EMFA

Where design, manufacturing,
electronics and material expertise
meet to create light.



EMFA

Mission
EMFA crafts high quality architectural lighting fixtures fulfilling the needs of architects, lighting designers, and electrical engineers.
EMFA distinguishes itself by providing personal customer service and lifetime assistance as well as the ability to customize products according to specific customer needs.

Standards
EMFA produces to European standards.
EMFA's fixtures incorporate first class components typically produced by western European and American companies.

Advantage
The quality, function and design all conform to European norms but with a substantial price advantage.
EMFA has been using LEDs since 1996 and has manufacturing experience for over 50 years.
EMFA has lived all the positive and negative experiences of the new and ever-changing technology, LED.
When a customer is looking for reliability with highest technological standards, EMFA is the right choice.
Our experienced in-house production and possibility for small batch adaptations allows EMFA to give its customers an industry-wide, incomparable flexibility with surprisingly short lead times.



EMFA

emfa heritage

1922
EMFA's founder, Andon Kasapoglu, is awarded his electrician's license.

1927
Andon establishes his own electrician business.

1940
Andon establishes Bakalit, a trading and electricians' shop in central Istanbul. He becomes the pioneer of importing Bakalite to Turkey and begins the production of electrical components for home and industry.

1959
Andon Kasapoglu founds EMFA and builds a factory not far from his shop in Istanbul to produce sockets, switches, plugs, buttons, and other electrical components.

1975
EMFA's 2nd generation owner, Rokos Kasapoglu, joins EMFA.

1976
EMFA produces its first lighting fixture.

1979
EMFA expands and invests in aluminum die-casting machines.

1980
EMFA becomes accredited by the Turkish Standard Institute (TSE), producing in line with European and Turkish Standards and starts exporting to Europe.

1984
EMFA shifts its focus on producing light fixtures.

1990
EMFA expands and invests in an electrostatic painting facility and drying oven allowing for many different finishing colors.

1993
Chief engineer, Serdar Akmansayar, joins EMFA.

1994
EMFA exhibits at Hanover Fair and exports to Middle East and Balkans.

1996
First EMFA LED fixture is produced.

2000
EMFA exhibits at the Light+Building Fair in Frankfurt for the first time.

2004
Marketing manager Johannes Puhrer joins EMFA.









EMFA

2005
EMFA invests in CNC machining technology to accommodate small batch production.

2009
50th anniversary! EMFA now exports to more than 40 countries worldwide.

2010
EMFA is awarded the ISO 9001 certificate.

2012
EMFA's 3rd generation owner, Adnan Kasapoglu, joins EMFA.

2013
EMFA builds a photometric laboratory to generate IES and Elumdat files of their fixtures.

EMFA becomes sponsoring partner at Professional Lighting Design Convention (PLDC) in Copenhagen.

2014
New Showroom: Ready For Visitors.

2016
Light+Building 2016 - Messe Frankfurt.

2018
Light+Building 2018 - Messe Frankfurt.

2020
New production facility with 10,000 m2 begins operation in new location in Tekirdag.

2021
Sheet cutting laser machine and pipe cutting laser machine set up.

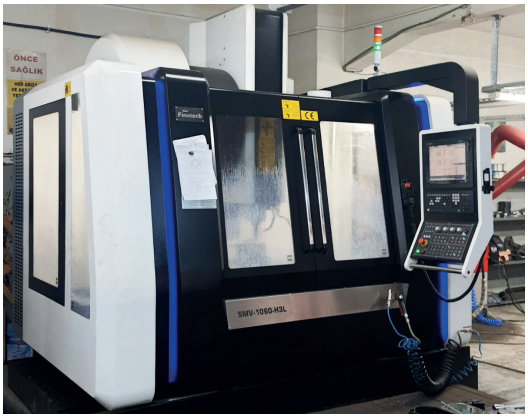
2022
Exhibiting again in Frankfurt Light and Building after 4.5 years. Invest in solar panels in the Tekirdag production facility.

2024
EMFA is awarded CBCertificates for the product range.
Light+Building 2024 - Messe Frankfurt.

2025
EMFA invested in a solar panel field in Kırşehir (central Anatolia) to power all of its electricity needs in it s production facilities in İstanbul and Tekirdağ.









EMFA

sustainability

EMFA does its best at employing sustainable business practices within the three traditional pillars of sustainability: environmental, social, and economic, as well as in the newly defined pillar; cultural sustainability.

Social
Being a family-run business, EMFA has always put importance on the social wellbeing of its team.
Today, some of the employees or their parents were around when the company was founded in 1959.

Cultural
In respect to the ancient civilizations that once inhabited Turkey, EMFA has named most of its product ranges after ancient cities and towns.
"The light of the ancient civilizations shine upon the world today through EMFA."

Environmental
In 1996 EMFA began using LEDs in their production of light fixtures. Initially, when LEDs were only available in low power, they were the perfect choice to use in highlighting stairs and paths in low light areas.
Since then, LEDs have become more and more powerful and efficient, to the point that today EMFA can light an entire skyscraper (Spine Tower), with LEDs resulting in lower power consumption and maintenance costs compared to traditional light sources.

EMFA has invested in solar panels in the new production facility in Tekirdağ (outside Istanbul). We plan to generate all our electricity for both factories from our new solar panels by 2023.

Economic
For nearly 6 decades and three generations, EMFA has successfully been a profitable business. Over the decades the management has made decisions aimed to give EMFA long-term results. One key factor has been to invest greatly in R&D to stay on top of the most modern technologies. EMFA has been using LEDs for nearly 30 years.

premium quality

Certifications
EMFA products are manufactured and certified after the European standards:
EN 60598-1 EN 60598-2-1 EN 60598-2-2 EN 60598-2-5 EN 60598-2-18

EMFA production follows the quality management systems of: ISO 9001:2008

Engineering
"Form follows function." EMFA fixtures are engineered first and foremost taking function into account.
Especially in regards to LED fixtures this principle is important. If you install an LED into a fixture that has been developed for a fluorescent or halogen lamp, the basic requirements an LED needs might not be met, leading to a shortened lifetime. This is especially crucial with high IP-rated fixtures where the intense heat the LED produces can only dissipate through the metals the LED is in direct contact with.
Given that a major market for EMFA is the Middle East, all fixtures are designed to withstand ambient temperatures of 50°C. The LEDs are mounted on metal core pcbs, which are mounted to the aluminium body of the fixture so that the entire fixture acts as a heat sink.
Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

Production
To ensure consistent quality of its products, EMFA produces by the standards set out by ISO 9001. This is done however without compromising flexibility and the ability for small-batch adaptations. EMFA produces over 4000 items, having nearly all component production in house allows EMFA to make minor modifications to these products even in small batches.

Customisation
"Customisation is EMFA's standard."
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 3 stainless steel finishes, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application.
This is done without increasing lead-time and is available for large as well as small quantities.

EMFA

departments

Facilities
EMFA opreates in two factories that have a combined 15.000m2 area with approximately 80 employees. The different departments that enable EMFA to customize products according to the needs of the customers in the shortest of lead times are below:

Having the following
departments on site enables EMFA to customize products according to customers' needs and have short lead times for delivery of large as well as small quantities.

Departments
Product design
Research & Development
Engineering
Mold manufacturing
Thermoset material preparation
Thermoset pressing
Aluminium die cast injection
Plastic die cast injection
Mechanical processing
Metal forming & pressing
Cnc milling
Sandblasting
Polishing
Painting & surface treatment
Electronics assembly
Packaging
Testing laboratory
Quality control
Photometric laboratory









EMFA

reference projects

Global & Local
EMFA exports to over 40 countries and has supplied such prestigous projects as:

Zorlu Center	Istanbul
Palmarina	Bodrum
Mall of Istanbul	Istanbul
Spine Tower	Istanbul
Port Alacati Marina	Izmir
JW Marriot Marquis Hotel	Dubai
Macau Fire Station	Macau
JW Marriot Absheron Hotel	Baku
Jeju Global Education City	Jeju Island
University of West England	Bristol
Borders Campus	Edinburgh
Rixos Tersane	Istanbul
Four Seasons Life I -II-III	Cyprus
Porto Cupecoy Marina	St. Maarten
Aviva Arena Stadium	Dublin
Sheikh Rashid Al Maktoum's Villa	Seychelles
Literature Museum of Azerbaijan	Baku
Bademlik Mosque	Istanbul
Four Season's Hotel Bosphorus	Istanbul
Art Academy	Baku
Hotel Johann Strauss	Vienna
Radisson Blue Hotel	Cesme
Key Urla	Urla
Galataport	Istanbul
Cullinan Hotel	Antalya
Down Town	Bursa
Lara Barut	Antalya
Yerebatan Sarnıcı	Istanbul
Sukar Pasha Ottoman Lounge	Qatar
Watergarden AVM	Istanbul
Papillion Zeugma Hotel	Antalya
Akra Otel	Didim
Fenix Restaurant	Istanbul
Uniq AVM	Istanbul
Scorpios	Bodrum
Hyde Otel	Bodrum
Akra Otel	Antalya
Ela Quality Hotel	Antalya
Crystal Tower	Dubai
Symbol Kocaeli AVM	Kocaeli
Maxx Royal Bodrum	Bodrum
ADNOC	Abu Dhabi
Büyükyalı	Istanbul
Voyage Belek Golf & Spa	Antalya
Le Chic	Bodrum
Grand Mosque	Algeria
Convention Center	Baku
Despot Evi Otel	Cunda
Convention Center	Kigali
Grand Pera	Istanbul
Mandarin Kurucesme	Istanbul
Divan Kurucesme	Istanbul
Hilltown Karsiyaka AVM	İzmir
Argos In Cappadocia	Nevşehir
Ritz Carlton	Istanbul
Mövenpick Hotel Istanbul Asia	Istanbul



EMFA

documents



GCR CERT

CERTIFICATE

EMFA ELEKTRİK MALZEME FABRİKASI ANONİM ŞİRKETİ

DAVUTPAŞA CADDESİ CEBE ALİBEY SOKAK NO:18
TOPKAPI / ZEYTİNBURNU / İSTANBUL / İSTANBUL

In recognition of the organization's Managements System which complies with

ISO 45001:2018

The scope of activities covered by this certificate is defined below

PRODUCTION AND SALES OF OUTDOOR AND INDOOR LIGHTING PRODUCTS

DIŞ VE İÇ MEKAN AYDINLATMA ÜRÜNLERİ ÜRETİMİ VE SATIŞI

Certificate Number : GCR/CERT-03.2025.004201
Certificate Issue Date : 15.03.2025
Certificate Validity : 14.03.2026

Abimanyu Gaurav
Approval

For updated information concerning the present certificate visit at www.gcrcert.co.in
Global Certification & Register Services Limited
NO.7-1-180/33/4, 1ST floor, akshaya , shobana colony, BALANAGAR INDIA
certification@gcrcert.co.in
www.gcrcert.co.in



CERTIFICATE

EMFA ELEKTRİK MALZEME FABRİKASI ANONİM ŞİRKETİ

DAVUTPAŞA CADDESİ CEBE ALİBEY SOKAK NO:18
TOPKAPI / ZEYTİNBURNU/ İSTANBUL / TÜRKİYE

Has been assessed and found to comply with the requirements of:
Denetlenmiş ve aşağıdaki standardın gerekliliklerine uygunluğu görülmüştür:

ISO 14001:2015

The Environmental Management System is applicable to:
Çevre Yönetim Sistemi:

PRODUCTION AND SALES OF OUTDOOR AND INDOOR LIGHTING PRODUCTS

DIŞ VE İÇ MEKAN AYDINLATMA ÜRÜNLERİ ÜRETİMİ VE SATIŞI

Certificate Number: EMS-006728
Belge Numarası: EMS-006728

Initial Certification Date: 15.03.2025
İlk Belgelendirme Tarihi: 15.03.2025

Certification Period: 3 Years
Belgelendirme Periyodu: 3 Yıl

Certificate Validity Date: 14.03.2026
Belge Geçerlilik Tarihi: 14.03.2026

IQR Sertifikasyon Onayı

ACCREDITED
Management Systems Certification Body
MSCB-135

IQR ULUSLARARASI BELGELENDİRME HİZMETLERİ LTD.ŞTİ.
Beşevler Mah. Kocayunus Sk. No:3 Arslan Han Plaza K:2 Nilüfer / BURSA
Tel.: +90.224.266 00 16 Faks: +90.224.249 41 13 www.iqrcert.com e-posta: info@iqrcert.com



GCR CERT

CERTIFICATE

EMFA ELEKTRİK MALZEME FABRİKASI ANONİM ŞİRKETİ

DAVUTPAŞA CADDESİ CEBE ALİBEY SOKAK NO:18
TOPKAPI / ZEYTİNBURNU / İSTANBUL / İSTANBUL

In recognition of the organization's Managements System which complies with

ISO 10002:2018

The scope of activities covered by this certificate is defined below

PRODUCTION AND SALES OF OUTDOOR AND INDOOR LIGHTING PRODUCTS

DIŞ VE İÇ MEKAN AYDINLATMA ÜRÜNLERİ ÜRETİMİ VE SATIŞI

Certificate Number : GCR/CERT-03.2025.004200
Certificate Issue Date : 15.03.2025
Certificate Validity : 14.03.2026

Abimanyu Gaurav
Approval

For updated information concerning the present certificate visit at www.gcrcert.co.in
Global Certification & Register Services Limited
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certification@gcrcert.co.in
www.gcrcert.co.in



CERTIFICATE

EMFA ELEKTRİK MALZEME FABRİKASI ANONİM ŞİRKETİ

DAVUTPAŞA CADDESİ CEBE ALİBEY SOKAK NO:18
TOPKAPI / ZEYTİNBURNU/ İSTANBUL / TÜRKİYE

Has been assessed and found to comply with the requirements of:
Denetlenmiş ve aşağıdaki standardın gerekliliklerine uygunluğu görülmüştür:

ISO 9001:2015

The Quality Management System is applicable to:
Kalite Yönetim Sistemi:

PRODUCTION AND SALES OF OUTDOOR AND INDOOR LIGHTING PRODUCTS

DIŞ VE İÇ MEKAN AYDINLATMA ÜRÜNLERİ ÜRETİMİ VE SATIŞI

Certificate Number: QMS-006728
Belge Numarası: QMS-006728

Initial Certification Date: 15.03.2025
İlk Belgelendirme Tarihi: 15.03.2025

Certification Period: 3 Years
Belgelendirme Periyodu: 3 Yıl

Certificate Validity Date: 14.03.2026
Belge Geçerlilik Tarihi: 14.03.2026

IQR Sertifikasyon Onayı

ACCREDITED
Management Systems Certification Body
MSCB-135

IQR ULUSLARARASI BELGELENDİRME HİZMETLERİ LTD.ŞTİ.
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documents

TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Tanımı / Description of the Mark
TSE veya/or TSE veya/or TSE

BELGE NUMARASI *REFERENCE NUMBER OF LICENCE*	000058-TSE-02/04
BELGENİN İLK VERİLİŞ TARİHİ *DATE OF FIRST ISSUE OF LICENCE*	24.04.2013
BELGENİN SON GEÇERLİLİK TARİHİ *LICENCE VALID UNTIL*	30.03.2026
BELGE SAHİBİ KURULUŞUN ADI *NAME OF THE LICENCE HOLDER*	EMFA ELEKTRİK MALZEME FABRİKASI ANONİM ŞİRKETİ
BELGE SAHİBİ KURULUŞUN ADRESİ *ADRESS OF THE LICENCE HOLDER*	MALTEPE MAH. CEBE ALİ BEY SK. /18 NO:1 ZEYTİNBURNU İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI *NAME OF THE MANUFACTURING PLACE*	EMFA ELEKTRİK MALZEME FABRİKASI ANONİM ŞİRKETİ
ÜRETİM YERİ ADRESİ *ADRESS OF THE MANUFACTURING PLACE*	DAVUTPAŞA CAD. CEBEALİBEY SOK. NO:18 34020 TOPKAPI İSTANBUL / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) *INDICATION OF SUPERSEDED LICENCE (if any)*	000058-TSE-02/03
TESCİLLİ TİCARİ MARKASI *REGISTERED TRADE MARK*	EMFA
İLGİLİ TÜRK STANDARDI *RELATED TURKISH STANDARD*	TS EN IEC 60598-2-1 / 30.09.2021 -- TS EN IEC 60598-1 / 12.04.2021 -- TS EN IEC 60598-1/A11 / 28.04.2022
BELGE KAPSAMI *SCOPE OF LICENCE*	-Belkıs Model, 220-230 V, 50-60 Hz., I Sınıfı, IP 67, 36 W LEDli Genel Amaçlı Sabit Aydınlatma Armatürü (K.G.: 21.02.2022)

e-imzalı/e-signed
08.07.2025
Belgelendirme Merkezi Başkanı Adına
AKDOĞAN BULUT
İSTANBUL BELGELENDİRME MÜDÜRÜ V.

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*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr

https://evrakkontrol.tse.org.tr/BelgeDogrulama.aspx?p=ces46kbb adresinden belgenin doğruluğunu ve geçerliliğini sorgulayınız.

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BELGE NUMARASI *REFERENCE NUMBER OF LICENCE*	000058-TSE-01/05
BELGENİN İLK VERİLİŞ TARİHİ *DATE OF FIRST ISSUE OF LICENCE*	08.04.2001
BELGENİN SON GEÇERLİLİK TARİHİ *LICENCE VALID UNTIL*	30.03.2026
BELGE SAHİBİ KURULUŞUN ADI *NAME OF THE LICENCE HOLDER*	EMFA ELEKTRİK MALZEME FABRİKASI ANONİM ŞİRKETİ
BELGE SAHİBİ KURULUŞUN ADRESİ *ADRESS OF THE LICENCE HOLDER*	MALTEPE MAH. CEBE ALİ BEY SK. /18 NO:1 ZEYTİNBURNU İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI *NAME OF THE MANUFACTURING PLACE*	EMFA ELEKTRİK MALZEME FABRİKASI ANONİM ŞİRKETİ
ÜRETİM YERİ ADRESİ *ADRESS OF THE MANUFACTURING PLACE*	DAVUTPAŞA CAD. CEBEALİBEY SOK. NO:18 34020 TOPKAPI İSTANBUL / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) *INDICATION OF SUPERSEDED LICENCE (if any)*	000058-TSE-01/04
TESCİLLİ TİCARİ MARKASI *REGISTERED TRADE MARK*	EMFA
İLGİLİ TÜRK STANDARDI *RELATED TURKISH STANDARD*	TS EN IEC 60598-2-18 / 30.09.2022 -- TS EN IEC 60598-1/A11 / 28.04.2022
BELGE KAPSAMI *SCOPE OF LICENCE*	-Atlantis Model, 12-24 V d.c., III Sınıfı, IP 68, 30 W LEDli Havuz Aydınlatma Armatürü (K.G.:20.12.2021)

e-imzalı/e-signed
08.07.2025
Belgelendirme Merkezi Başkanı Adına
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İSTANBUL BELGELENDİRME MÜDÜRÜ V.

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*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr

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TSE veya/or TSE veya/or TSE

BELGE NUMARASI *REFERENCE NUMBER OF LICENCE*	000058-TSE-04/03
BELGENİN İLK VERİLİŞ TARİHİ *DATE OF FIRST ISSUE OF LICENCE*	25.06.2006
BELGENİN SON GEÇERLİLİK TARİHİ *LICENCE VALID UNTIL*	02.03.2026
BELGE SAHİBİ KURULUŞUN ADI *NAME OF THE LICENCE HOLDER*	EMFA ELEKTRİK MALZEME FABRİKASI ANONİM ŞİRKETİ
BELGE SAHİBİ KURULUŞUN ADRESİ *ADRESS OF THE LICENCE HOLDER*	MALTEPE MAH. CEBE ALİ BEY SK. /18 NO:1 ZEYTİNBURNU İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI *NAME OF THE MANUFACTURING PLACE*	EMFA ELEKTRİK MALZEME FABRİKASI ANONİM ŞİRKETİ
ÜRETİM YERİ ADRESİ *ADRESS OF THE MANUFACTURING PLACE*	DAVUTPAŞA CAD. CEBEALİBEY SOK. NO:18 34020 TOPKAPI İSTANBUL / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) *INDICATION OF SUPERSEDED LICENCE (if any)*	000058-TSE-04/02
TESCİLLİ TİCARİ MARKASI *REGISTERED TRADE MARK*	EMFA
İLGİLİ TÜRK STANDARDI *RELATED TURKISH STANDARD*	TS EN 60598-2-5 / 18.02.2016 -- TS EN IEC 60598-1 / 12.04.2021 -- TS EN IEC 60598-1/A11 / 28.04.2022
BELGE KAPSAMI *SCOPE OF LICENCE*	STAR MODEL 230 V, 50 Hz MAX 500W, I SINIFI, IP 54 HALOJEN LAMBALARLA KULLANILAN PROJEKTÖR (K.D.: 08.07.2024) ALFA MODEL 230 V, 50 Hz MAX 500W, I SINIFI, IP 55 HALOJEN LAMBALARLA KULLANILAN PROJEKTÖR (K.D.: 08.07.2024) BETA 1 MODEL 230 V, 50 Hz MAX 1000W, I SINIFI, IP 55 HALOJEN LAMBALARLA KULLANILAN PROJEKTÖR (K.D.: 08.07.2024)

TÜRKAK Ürün TS EN ISO/IEC 17065 AB-5106-U

e-imzalı/e-signed
08.07.2025
Belgelendirme Merkezi Başkanı Adına
AKDOĞAN BULUT
İSTANBUL BELGELENDİRME MÜDÜRÜ V.

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*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kazıntı ve silinti yapılamaz.
*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayırova Tren İstasyonu Yanı ÇAYIROVA/GEBZE * Telefon: 2627231273* Faks: 2627231606
*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr

https://evrakkontrol.tse.org.tr/BelgeDogrulama.aspx?p=27tjrrxs adresinden belgenin doğruluğunu ve geçerliliğini sorgulayınız.

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TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
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Markanın Tanımı / Description of the Mark
TSE veya/or TSE veya/or TSE

BELGE NUMARASI *REFERENCE NUMBER OF LICENCE*	000058-TSE-03/05
BELGENİN İLK VERİLİŞ TARİHİ *DATE OF FIRST ISSUE OF LICENCE*	22.11.2002
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BELGE SAHİBİ KURULUŞUN ADI *NAME OF THE LICENCE HOLDER*	EMFA ELEKTRİK MALZEME FABRİKASI ANONİM ŞİRKETİ
BELGE SAHİBİ KURULUŞUN ADRESİ *ADRESS OF THE LICENCE HOLDER*	MALTEPE MAH. CEBE ALİ BEY SK. /18 NO:1 ZEYTİNBURNU İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI *NAME OF THE MANUFACTURING PLACE*	EMFA ELEKTRİK MALZEME FABRİKASI ANONİM ŞİRKETİ
ÜRETİM YERİ ADRESİ *ADRESS OF THE MANUFACTURING PLACE*	DAVUTPAŞA CAD. CEBEALİBEY SOK. NO:18 34020 TOPKAPI İSTANBUL / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) *INDICATION OF SUPERSEDED LICENCE (if any)*	000058-TSE-03/04
TESCİLLİ TİCARİ MARKASI *REGISTERED TRADE MARK*	EMFA
İLGİLİ TÜRK STANDARDI *RELATED TURKISH STANDARD*	TS EN 60598-2-2 / 05.06.2012 -- TS EN IEC 60598-1 / 12.04.2021 -- TS EN IEC 60598-1/A11 / 28.04.2022
BELGE KAPSAMI *SCOPE OF LICENCE*	-Downlight Model, 220-230 V, 50-60 Hz., I Sınıfı, IP 65, 30 W LEDli Gömme Aydınlatma Armatürü (K.G.: 01.02.2022)

e-imzalı/e-signed
13.10.2025
Belgelendirme Merkezi Başkanı Adına
Musa TOKKAN
İSTANBUL BELGELENDİRME MÜDÜRÜ V.

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.
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https://evrakkontrol.tse.org.tr/BelgeDogrulama.aspx?p=efx8whuk adresinden belgenin doğruluğunu ve geçerliliğini sorgulayınız.

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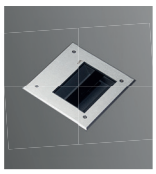
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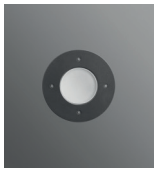
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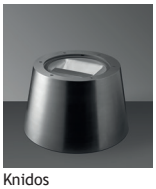
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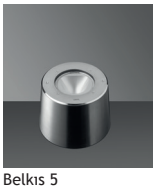
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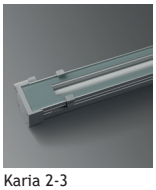
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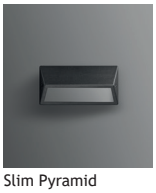
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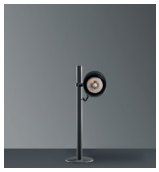
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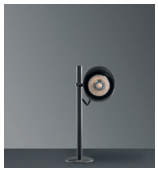
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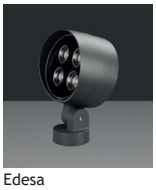
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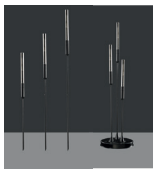
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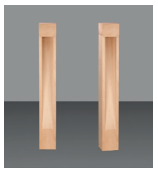
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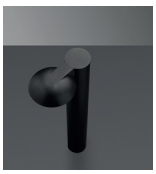
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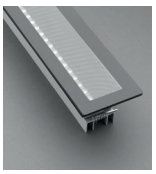
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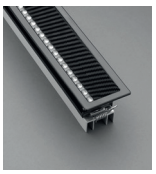
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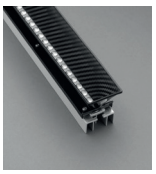
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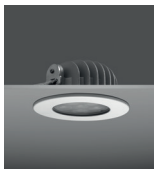
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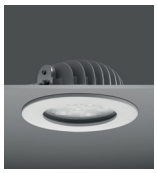
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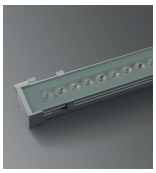
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EMFA

Drive Over





EMFA

MILET ANI

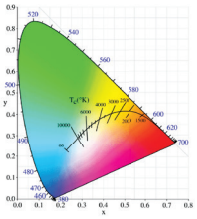
RECESSED DRIVE OVER FIXTURES
Load 8 kN | Class I IP67 IK10

EMFA's Ani step mounted series is specially designed to deliver low-glare lighting to facades, columns, monuments, and trees with minimal installation depth and narrow trim. The fixture is made of a combination of 316L stainless steel and die cast aluminium. The tilted design reduces the glare of the LED's The Linear LEDs with special lenses gives excellent wallwashing effect. An anti-slip glass is available upon request.



Cover
316L Stainless steel
Body
Die cast aluminium
Gaskets
Silicone
Diffusers
8 mm Tempered Glass
Screws
316L Stainless Steel

"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, and available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



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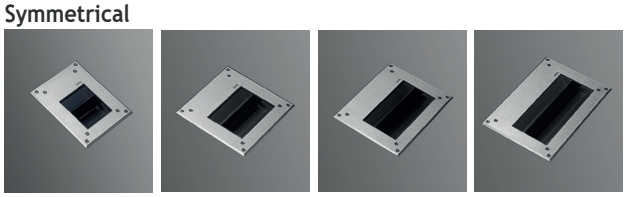
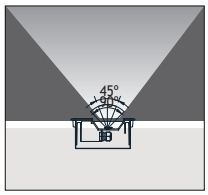
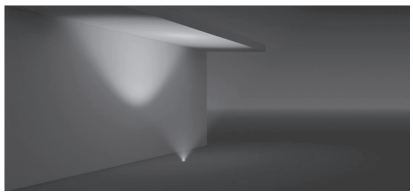
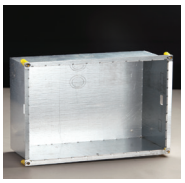




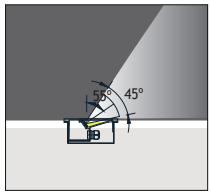


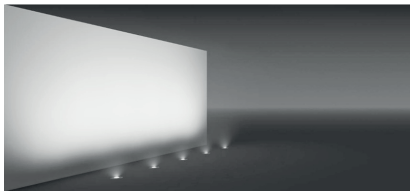


Galvanized Recessing Box

Asymmetrical







LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Asym. Glass



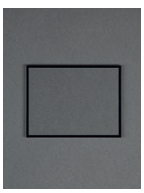
Trenched Glass



Milky Glass

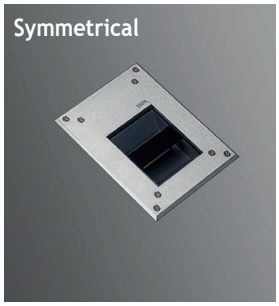


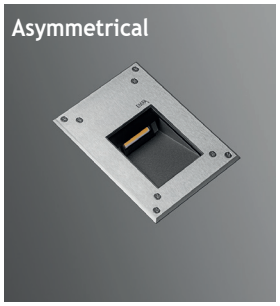
Clear Glass



MILET ANI

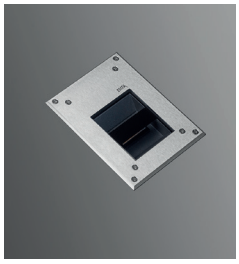
RECESSED DRIVE OVER FIXTURES
Load 8 kN | Class I IP67 IK10

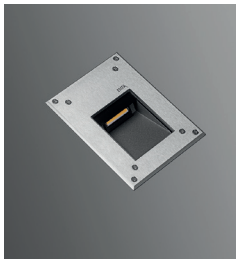


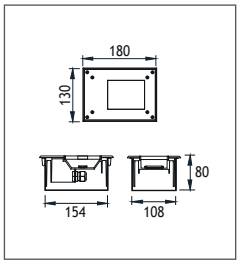


Led : Linear LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 8mm Tempered Glass
Beam Angle : 45° / 60° / 90°
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

ANI 1

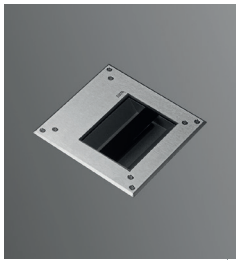


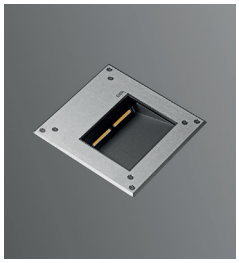


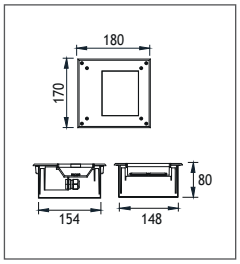


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
6W	2700 K	570 lm	450003	450503
6W	3000 K	570 lm	450001	450501
6W	4000 K	690 lm	450002	450502
12W	2700 K	1140 lm	450013	450513
12W	3000 K	1140 lm	450011	450511
12W	4000 K	1195 lm	450012	450512

ANI 2

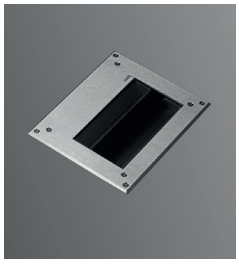


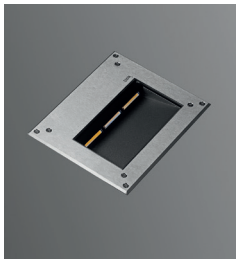


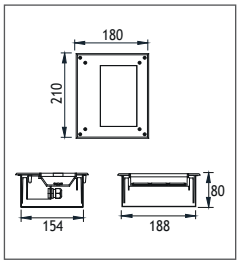


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
12W	2700 K	1140 lm	450103	450603
12W	3000 K	1140 lm	450101	450601
12W	4000 K	1195 lm	450102	450602
24W	2700 K	2280 lm	450113	450613
24W	3000 K	2280 lm	450111	450611
24W	4000 K	2320 lm	450112	450612

ANI 3

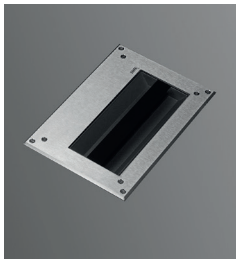


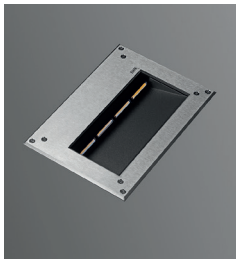


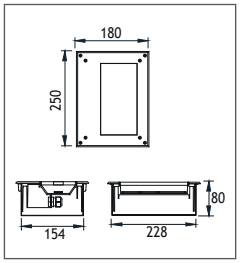


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
18W	2700 K	1710 lm	450203	450703
18W	3000 K	1710 lm	450201	450701
18W	4000 K	1790 lm	450202	450702
36W	2700 K	3420 lm	450213	450713
36W	3000 K	3420 lm	450211	450711
36W	4000 K	3520 lm	450212	450712

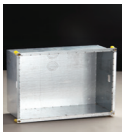
ANI 4







Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
24W	2700 K	2280 lm	450303	450803
24W	3000 K	2280 lm	450301	450801
24W	4000 K	2320 lm	450302	450802
36W	2700 K	3420 lm	450313	450813
36W	3000 K	3420 lm	450311	450811
36W	4000 K	3520 lm	450312	450812



Galvanized Recessing Box

EMFA

KNIDOS

RECESSED DRIVE OVER FIXTURES
Load 20 kN | Class I IP67 IK10

EMFA's Knidos series consists of a range of LED, metal halide, and fluorescent sources to deliver the desired light effect to facades, columns, monuments and trees. The fixture is made of a combination of 316L stainless steel and glass reinforced polyester, which makes it completely resistant to corrosion. The sturdy fixture allows loads up to 20kN and IK 10. The LEDs used come in 3 different tones of white, as well as blue, red, green, and amber. An anti-slip glass is available upon request.

Adjustable Asymmetrical LEDs
In this series EMFA is introducing its first adjustable asymmetric LED unit. The LEDs can be internally adjusted up to 40 degree to give the desired light output to facades, columns, monuments, and trees without losing light to the sky. The Knidos is large enough, and has enough surface area so that at an ambient tempature of 50° C, 9 LEDs can be operated at 350 mA (9W).

Cover
316L Stainless steel
Body
Glass reinforced polyester
Gaskets
Silicone
Diffusers
12 mm Tempered Glass
Screws
316L Stainless Steel

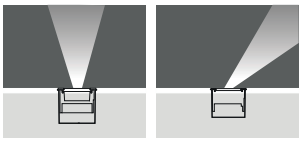
"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.









Fixed Adjustable

LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Accessories:



Anti-slip Glass

Please contact for this option.

MILET ANI

RECESSED DRIVE OVER FIXTURES
Load 8 kN | Class I IP67 IK10



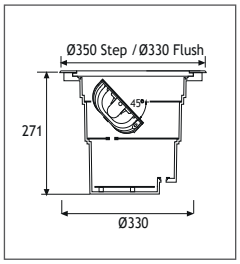


Voltage : 240 V A.C with integrated driver (24V AC or DC on request)
Diffuser : 12mm Clear Glass (Frosted Glass on request)
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

LED





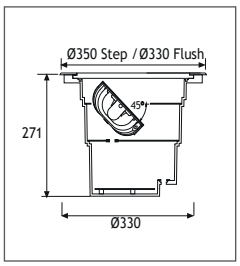


Power	Kelvin	Real Lumen Output	Lens	Code No Flush Mounted	Code No Step Mounted
9W	2700 K	810 lm	10°,25°,40°	258003	258013
9W	3000 K	810 lm	10°,25°,40°	258001	258011
9W	4000 K	891 lm	10°,25°,40°	258002	258012
18W	2700 K	1620 lm	10°,25°,40°	258021	258031
18W	3000 K	1620 lm	10°,25°,40°	258022	258032
18W	4000 K	1782 lm	10°,25°,40°	258023	258033

METAL HALIDE SPOT

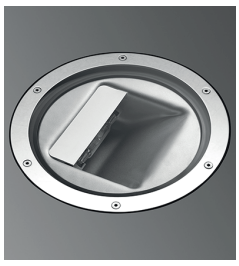




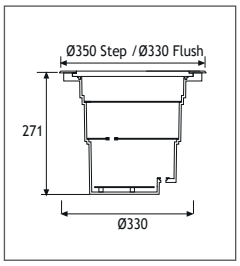


Power	Lampholder	Reflector	Code No Flush Mounted	Code No Step Mounted
CDMR-111 35W	Gx8,5	10°,40°	254301	254311
CDMR-111 70W	Gx8,5	10°,40°	254401	254411

METAL HALIDE WALLWASHER





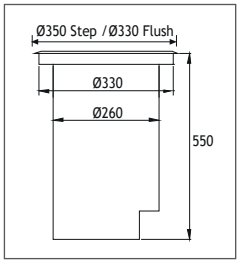


Power	Lampholder	Reflector	Code No Flush Mounted	Code No Step Mounted
35W	Rx 7s	Asym. 50°	251101	251201
70W	Rx 7s-24	Asym. 50°	251111	251211

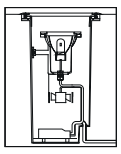
METAL HALIDE







Power	Lampholder	Reflector	Code No Flush Mounted	Code No Step Mounted
35W	G12	30°,42°	257001	257101
70W	G12	30°,42°	257011	257111



Special Vantilation System for Cooling

EMFA



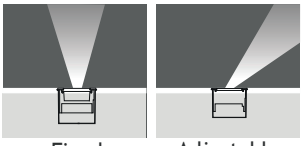
SANTOS 4

RECESSED DRIVE OVER FIXTURES
Load 10 kN | Class I IP67 IK10

EMFA's Santos flush mounted series is specially designed to deliver low-glare lighting to facades, columns, monuments and trees with minimal installation depth and narrow trim. The fixture is made of a combination of 316L stainless steel and die cast aluminium. A shield above the lamp reduces the glare of the metal halide lamps. A mirror finish reflector allows for a narrow to wide beam light output. An anti-slip glass is available upon request.



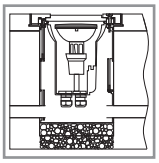




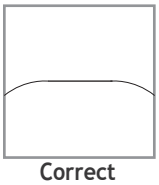
Fixed Adjustable

Cover
316L Stainless steel
Body
Die cast aluminium or aluminium profile with die cast aluminium bottom and connection box
Gaskets
Silicone
Diffusers
8 mm Tempered Glass
Screws
316L Stainless steel
Glands
2 x PG 13.5
Recessing Tube
Polyamide 6

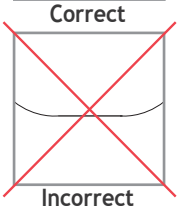
Mounting Feature



Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture.
To make the fixture drive over, the recessing tube should be mounted flush to the ground.

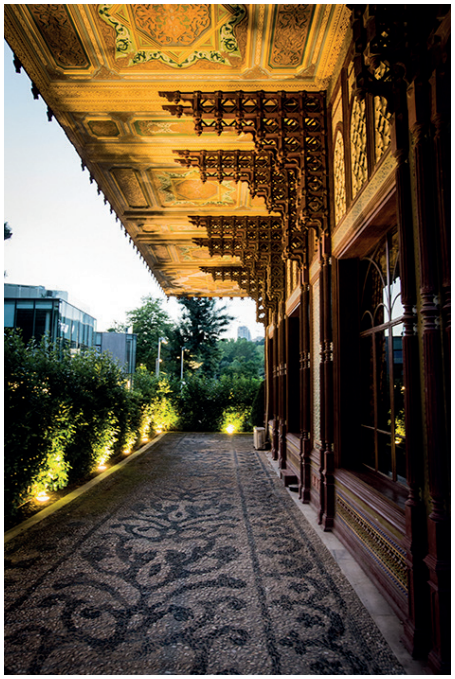


Correct



Incorrect

When mounting the fixture on uneven surfaces, place so that the water does not accumulate on the surface of the fixture.





This fixture is also available with 2 screws instead of 4. For this option, please contact us.



Anti-slip Glass

Please contact for this option.



EMFA

SANTOS 4

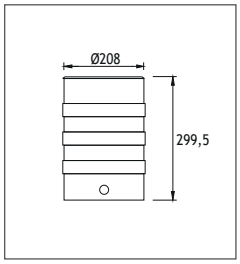
RECESSED DRIVE OVER FIXTURES
Load 10 kN | Class I IP67 IK10



Voltage : 240 V A.C with integrated driver
(24V AC or DC on request)
Diffuser : Clear Tempered Glass (Frosted Glass on request)
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

LED

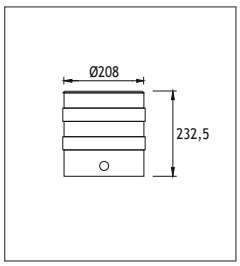




Power	Kelvin	Real Lumen Output	Lens	Code No
9W	2700 K	855 lm	10°,23°,36°	550211
9W	3000 K	855 lm	10°,23°,36°	550212
9W	4000 K	872 lm	10°,23°,36°	550213
18W	2700 K	1710 lm	10°,23°,36°	550203
18W	3000 K	1710 lm	10°,23°,36°	550201
18W	4000 K	1744 lm	10°,23°,36°	550202

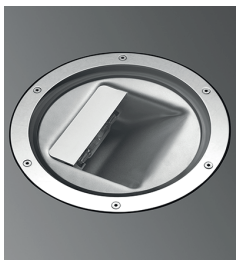
HALOGEN

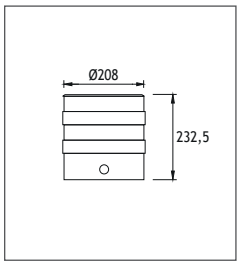




Power	Lampholder	Reflector	Code No
PAR30 75W	E27 Adjustable	38°	550101

METAL HALIDE

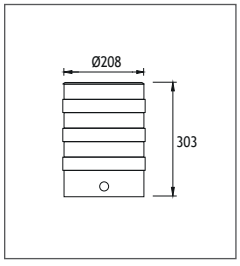




Power	Lampholder	Reflector	Code No
20W	G 8.5 Fixed	12°,36°	550111
35W	G 8.5 Fixed	12°,36°	550121
70W	G 8.5 Fixed	12°,36°	550131

METAL HALIDE





Power	Lampholder	Reflector	Code No
35W	Gx8,5 Adjustable	10°,40°	550151
70W	Gx8,5 Adjustable	10°,40°	550161

SANTOS 5

RECESSED DRIVE OVER FIXTURES
Load 6 kN | Class I IP67 IK10

EMFA's Santos step mounted series is specially designed to deliver low-glare lighting to facades, columns, monuments and trees with minimal installation depth and narrow trim. The fixture is made of a combination of 316L stainless steel and die cast aluminium. A shield above the lamp reduces the glare of the metal halide lamps. A mirror finish reflector allows for a narrow to wide beam light output. An anti-slip glass is available upon request.

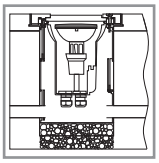


Cover
316L Stainless steel
Body
Die cast aluminium or aluminium profile with die cast aluminium bottom and connection box
Gaskets
Silicone
Diffusers
8 mm Tempered Glass
Screws
316L Stainless steel
Glands
2 x PG 13.5
Recessing Tube
Polyamide 6

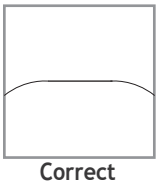


Fixed Adjustable

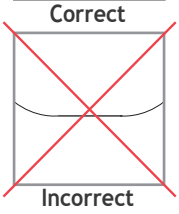
Mounting Feature



Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture.
To make the fixture drive over, the recessing tube should be mounted flush to the ground.



Correct



Incorrect

When mounting the fixture on uneven surfaces, place so that the water does not accumulate on the surface of the fixture.



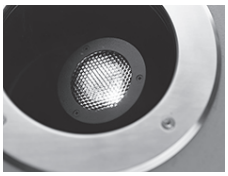


This fixture is also available with 2 screws instead of 4. For this option, please contact us.



Anti-slip Glass

Please contact for this option.





EMFA

SANTOS 5

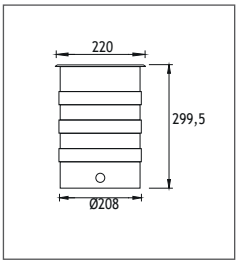
RECESSED DRIVE OVER FIXTURES
Load 6 kN | Class I IP67 IK10




Voltage : 240 V A.C with integrated driver (24V AC or DC on request)
Diffuser : 12mm Clear Glass (Frosted Glass on request)
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

LED

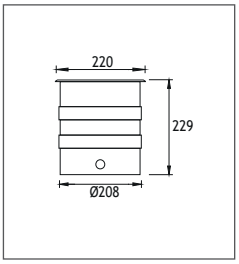




Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
9W	2700 K	855 lm	10°,23°,36°	551321	551331
9W	3000 K	855 lm	10°,23°,36°	551322	551332
9W	4000 K	872 lm	10°,23°,36°	551323	551333
18W	2700 K	1710 lm	10°,23°,36°	551303	551313
18W	3000 K	1710 lm	10°,23°,36°	551301	551311
18W	4000 K	1744 lm	10°,23°,36°	551302	551312

HALOGEN

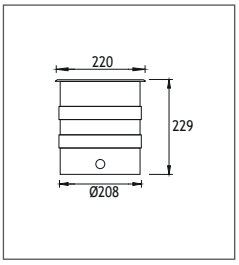




Power	Lampholder	Reflector	Code No Round	Square
PAR30 75W	E27 Adjustable	38°	551101	551201

METAL HALIDE

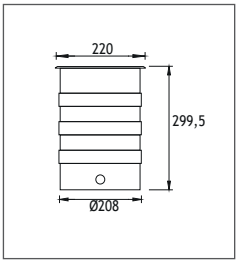




Power	Lampholder	Reflector	Code No Round	Square
20W	G 8.5 Fixed	12°,36°	551111	551211
35W	G 8.5 Fixed	12°,36°	551121	551221
70W	G 8.5 Fixed	12°,36°	551131	551231

METAL HALIDE SPOT





Power	Lampholder	Reflector	Code No Round	Square
35W	Gx8,5 Adjustable	10°,40°	551151	551251
70W	Gx8,5 Adjustable	10°,40°	551161	551261

TEOS 3

RECESSED DRIVE OVER FIXTURES
Load 50 kN | Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

EMFA's Teos 3 Recessed Drive Over LED Fixture is specially designed to deliver high output LED light to ground surfaces of roads, carparks and pathways. This heavy duty fixture is designed to withstand the weight of large vehicles. Its robust construction allows for a maximum static load of 5000kg. The body and head of the fixture are made of die cast aluminium, while the recessing tube is made of steel to withstand the repeated impact of driving vehicles' tires. The high power LEDs are positioned and angled to provide maximum light output. The electronic LED driver is housed in the base of the fixture. The fixture comes with 2 x PG13.5 cable glands and 0.5m cable.







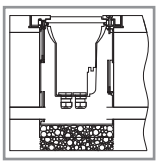




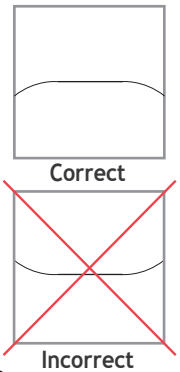
Cover
Die cast aluminium
Body
Die cast aluminium
Gaskets
Silicone
Diffusers
Polycarbonate
Screws
316L Stainless steel
Glands
2 x PG 13.5
Cable
0.5m 3x0,75 mm H05VV-F
Recessing Tube
Electrostatic powder paint
Coated steel



Mounting Feature



Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture.
To make the fixture drive over, the recessing tube should be mounted flush to the ground.



When mounting the fixture on uneven surfaces, place so that the water does not accumulate on the surface of the fixture.

LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

TEOS 3

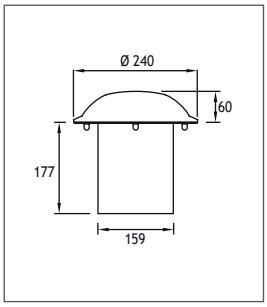
RECESSED DRIVE OVER FIXTURES
Load 50 kN | Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

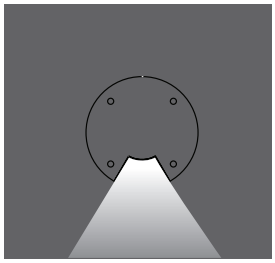






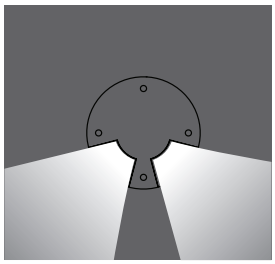
Led : Linear LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Polycarbonate
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F





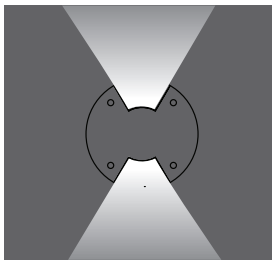
Power	Kelvin	Real Lumen Output	Code No
1 x 4W	2700 K	1 x 380 lm	180103
1 x 4W	3000 K	1 x 380 lm	180101
1 x 4W	4000 K	1 x 418 lm	180102





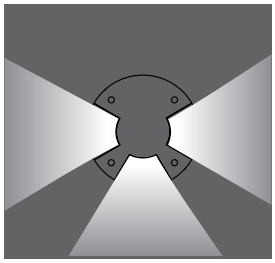
Power	Kelvin	Real Lumen Output	Code No
2 x 4W	2700 K	2 x 380 lm	180113
2 x 4W	3000 K	2 x 380 lm	180111
2 x 4W	4000 K	2 x 392 lm	180112





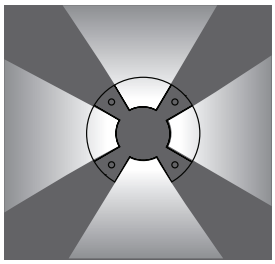
Power	Kelvin	Real Lumen Output	Code No
2 x 4W	2700 K	2 x 380 lm	180123
2 x 4W	3000 K	2 x 380 lm	180121
2 x 4W	4000 K	2 x 392 lm	180122



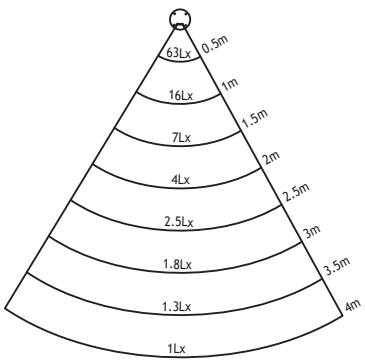


Power	Kelvin	Real Lumen Output	Code No
3 x 4W	2700 K	3 x 380 lm	180133
3 x 4W	3000 K	3 x 380 lm	180131
3 x 4W	4000 K	3 x 392 lm	180132





Power	Kelvin	Real Lumen Output	Code No
4 x 4W	2700 K	4 x 380 lm	180143
4 x 4W	3000 K	4 x 380 lm	180141
4 x 4W	4000 K	4 x 392 lm	180142



Lux levels for one aperture at 3000K

EMFA


TERSONE
İSTANBUL
TERSONE
İSTANBUL

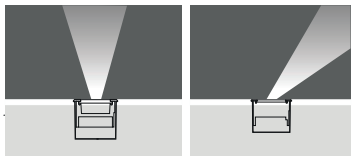
MIRA

RECESSED DRIVE OVER FIXTURES
Load 20 kN | Class I IP67 IK10

The Mira series consists of a range of LED and fluorescent sources to deliver the desired light effect to facades, columns, bridges, monuments, and signs. The series is made of a die cast aluminium body with electrostatic powder paint finished with a 316L stainless steel cover. The recessed versions are for drive over up to 20 kN including a stainless steel recessing box. The surface mounted versions come with a heavy-duty 316L stainless steel bracket. The fixtures come with integrated electronic ballasts and a specially developed potted power cable to effectively bond with the cast resin and stop any water ingress. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.



Cover
316L Stainless steel
Body
Die cast aluminium
Diffusers
12 mm Tempered Glass
Gaskets
Silicone
Screws
316L Stainless steel
Recessing Box
Stainless steel



Symmetrical Asymmetrical

"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

MIRA

RECESSED DRIVE OVER FIXTURES
Load 20 kN | Class I IP67 IK10

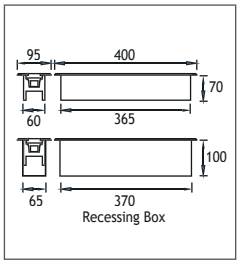



Led : Power LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 12mm Tempered Glass
Beam Angle : 45° / 60° / 90°
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

MIRA 1 LED

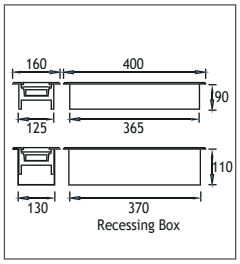




Power	Kelvin	Real Lumen Output	Lens	Code No Symmetrical	Code No Asymmetrical
12W	2700 K	1140 lm	10°,25°,40°	430118	430354
12W	3000 K	1140 lm	10°,25°,40°	430111	430351
12W	4000 K	1160 lm	10°,25°,40°	430116	430352
12W	6000 K	1185 lm	10°,25°,40°	430117	430353
27W	RGB		25°,40°	430161	430361

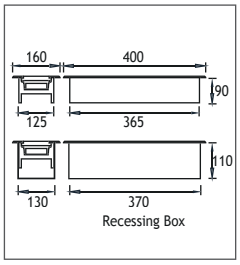
MIRA 2 LED





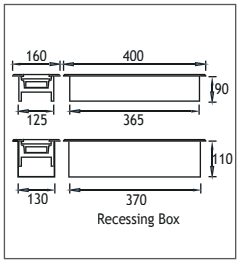
Power	Kelvin	Real Lumen Output	Lens	Code No Symmetrical	Code No Asymmetrical
36W	2700 K	3420 lm	10°,25°,40°	430614	430608
36W	3000 K	3420 lm	10°,25°,40°	430611	430601
36W	4000 K	3488 lm	10°,25°,40°	430612	430606
36W	6000 K	3557 lm	10°,25°,40°	430613	430607
27W	RGB		25°,40°	430621	430631

MIRA 2 LED

Power	Kelvin	Real Lumen Output	Code No Symmetrical
12W	2700 K	1140 lm	430723
12W	3000 K	1140 lm	430721
12W	4000 K	1160 lm	430822
12W	6000 K	1185 lm	430724

MIRA 2 METAL HALIDE

Power	Lampholder	Code No Asymmetrical
70W	G 8,5 METAL HALIDE	430711

ASSOS 2

RECESSED DRIVE OVER FIXTURES
Load 15 kN | Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

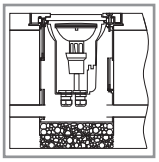
EMFA's Assos 2 series is specially designed to light facades, columns, monuments and trees with a die cast aluminium grill protecting the glass. The fixture can be equipped with metal halide, halogen or fluorescent lamps. The fixture is made completely of die cast aluminium body, which allows for IP67 and IK10 and a load of 15kN. The fixture comes with a polyamide recessing tube for easy mounting in the ground or concrete. A louvre can be ordered separately to reduce the glare of the lamps.



Cover
Die cast aluminium
Body
Die cast aluminium or aluminium profile with
die cast aluminium bottom and connection box.
Gaskets
Silicone
Diffusers
8 mm Tempered Glass
Screws
316L Stainless steel
Glands
2 x PG 13.5
Recessing Tube
Polyamide 6



Mounting Feature



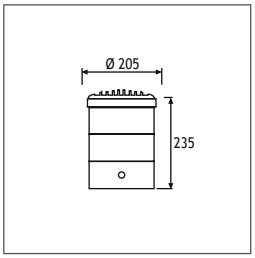
Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture.
To make the fixture drive over, the recessing tube should be mounted flush to the ground.



This fixture is suitable for helicopter landing pads due to its heavy duty aluminium cover.

HALOGEN

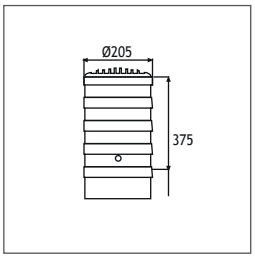




Power	Lampholder	Reflector	Code No
PAR30 75W	E27	38°	201131

METAL HALIDE





Power	Lampholder	Reflector	Code No
35W	G 12 Adjusable	30°,42°	201141
70W	G 12 Adjusable	30°,42°	201151
150W	G 12 Adjusable	30°,42°	201161

EMFA

ASSOS 3

RECESSED DRIVE OVER FIXTURES
Load 15 kN | Class I IP67 IK10

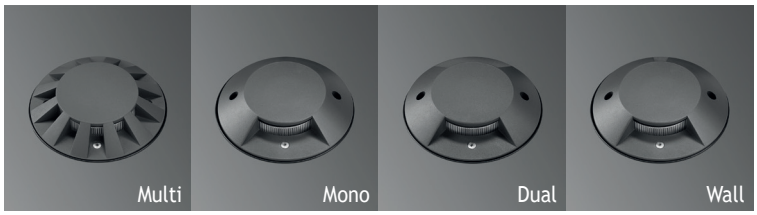
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

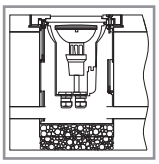
EMFA's Assos 3 series is specially designed to light pathways, roads, and gardens. The fixture can be equipped with LED, halogen or fluorescent lamps. The fixture has 3 different options of cover: Multi, Mono, Dual, and Wall to give different lighting effects. In combination with the die cast aluminium body, the fixture allows for IP67 and IK10 and a load of 15kN. The fixture comes with a polyamide recessing tube for easy mounting in the ground or concrete.



Cover
Die cast aluminium
Body
Die cast aluminium or aluminium profile with die cast aluminium bottom and connection box.
Gaskets
Silicone
Diffusers
Tempered press glass or polycarbonate
Screws
316L Stainless steel
Glands
2 x PG 13.5
Recessing Tube
Polyamide 6



Mounting Feature



Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture.
To make the fixture drive over, the recessing tube should be mounted flush to the ground.



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

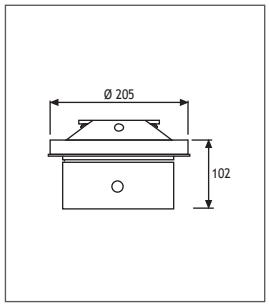
ASSOS 3

RECESSED DRIVE OVER FIXTURES
Load 15 kN | Class I IP67 IK10

Available in any of these RAL colors

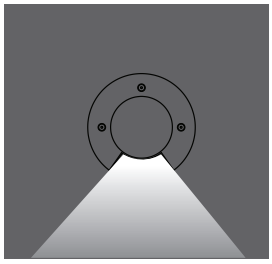
7004 7016 9005 9016 6002 1015





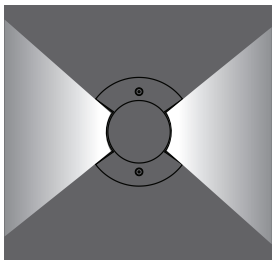
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Polycarbonate
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F





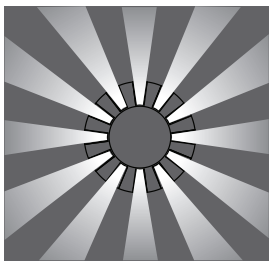
Power	Kelvin	Real Lumen Output	Code No
1 x 4W LED	2700 K	1 x 380 lm	203142
1 x 4W LED	3000 K	1 x 380 lm	203141
1 x 4W LED	4000 K	1 x 387 lm	203143
1 x 4W LED	6000 K	1 x 395 lm	203144
HALOGEN 25-40W		G9	203101





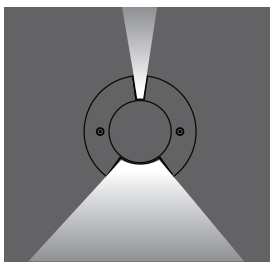
Power	Kelvin	Real Lumen Output	Code No
2 x 4W LED	2700 K	2 x 380 lm	204142
2 x 4W LED	3000 K	2 x 380 lm	204141
2 x 4W LED	4000 K	2 x 387 lm	204143
2 x 4W LED	6000 K	2 x 395 lm	204144
HALOGEN 25-40W		G9	204101





Power	Kelvin	Real Lumen Output	Code No
1 x 11W LED	2700 K	1045 lm	202142
1 x 11W LED	3000 K	1045 lm	202141
1 x 11W LED	4000 K	1065 lm	202143
1 x 11W LED	6000 K	1087 lm	202144
HALOGEN 25-40W		G9	202101





Power	Kelvin	Real Lumen Output	Code No
2 x 4W LED	2700 K	2 x 380 lm	205142
2 x 4W LED	3000 K	2 x 380 lm	205141
2 x 4W LED	4000 K	2 x 387 lm	205143
2 x 4W LED	6000 K	2 x 395 lm	205144
HALOGEN 25-40W		G9	205101

ASSOS

RECESSED DRIVE OVER FIXTURES
Load 15 kN | Class I IP67 IK10

Available in any of these RAL colors

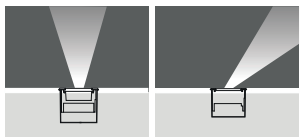
7004 7016 9005 9016 6002 1015

EMFA's Assos 4 series is specially designed to light facades, columns, monuments and trees. The fixture can be equipped with metal halide, halogen or fluorescent lamps. The fixture has 3 different options of cover: 316 stainless steel, die cast aluminium or bronze in combination with the die cast aluminium body which allows for IP67 and IK10 and a load of 15kN. The fixture comes with a polyamide recessing tube for easy mounting in the ground or concrete. A louvre can be ordered separately to reduce the glare of the lamps. An anti-slip glass is available upon request.







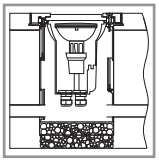


Fixed Adjustable

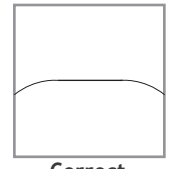
Cover
Die cast aluminium / 316L Stainless Steel
Body
Die cast aluminium or aluminium profile with
die cast aluminium bottom and connection box.
Gaskets
Silicone
Diffusers
15 mm Tempered Glass
Screws
316L Stainless steel
Glands
2 x PG 13.5
Recessing Tube
Polyamide 6

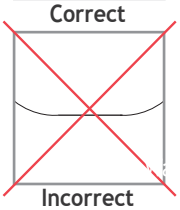


Mounting Feature



Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture.
To make the fixture drive over, the recessing tube should be mounted flush to the ground.





When mounting the fixture on uneven surfaces, place so that the water does not accumulate on the surface of the fixture.

Accessories:



Louvre
To avoid glare.
Can be applied to all lamp types except Halogen PAR 30 and 38 Code No 955105



Dichroic Color Glass Filter
Can be applied to all lamp types except Halogen PAR 38.

Code No 955101 - Blue
Code No 955102 - Red
Code No 955103 - Yellow
Code No 955104 - Green

Caution:
The louvre and filter cannot be applied to the standard fixture. These options should be mentioned when ordering.



Anti-slip Glass

Please contact for this option.

EMFA

ASSOS

RECESSED DRIVE OVER FIXTURES
Load 15 kN | Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015





Voltage : 240 V A.C with integrated driver (24V AC or DC on request)

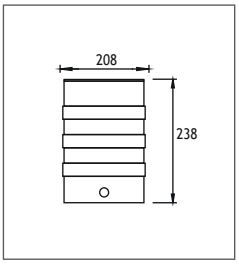
Diffuser : 12mm Clear Glass (Frosted Glass on request)

Cable : Potted 1m 3x1 H03 VV-F

ASSOS 4 HALOGEN





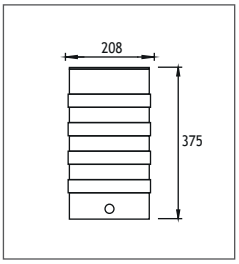


Power	Lampholder	Reflector	Code No Alum	Code No Inox
PAR30 75W	E27 Adjustable	38°	221311	221321

ASSOS 4 METAL HALIDE





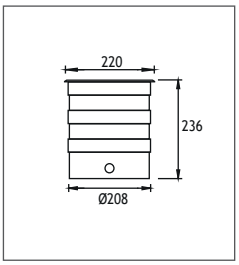


Power	Lampholder	Reflector	Code No Alum	Code No Inox
35W M.H.	Gx8.5 Adjustable	12°,36°	206271	207271
70W M.H.	Gx8.5 Adjustable	12°,36°	551121	551221
35W M.H.	G 12 Adjustable	30°,42°	206241	207241
70W M.H.	G 12 Adjustable	30°,42°	206251	207251
150W M.H.	G 12 Adjustable	30°,42°	206261	207261

ASSOS 4 HALOGEN





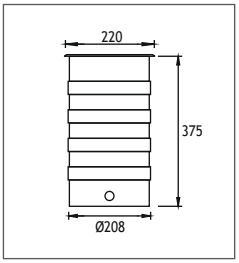


Power	Lampholder	Reflector	Code No Inox
PAR30 75W	E27 Adjustable	38°	221391
HALOGEN RJ111 50W	G 53	38°	221291

ASSOS 4 HALOGEN







Power	Lampholder	Reflector	Code No Inox
35W M.H.	Gx8.5 Adjustable	12°,36°	212271
70W M.H.	G 12 Adjustable	30°,42°	212241
35W M.H.	Gx8.5 Adjustable	12°,36°	212201
70W M.H.	G 12 Adjustable	30°,42°	212211
150W M.H.	G 12 Adjustable	30°,42°	212221

Walk Over

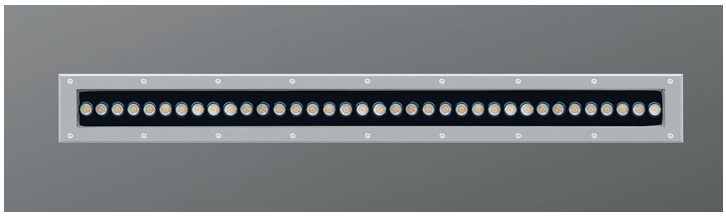


MIRA 5 RECESSED WALK OVER FIXTURES
Load 20 kN | Class I IP67 IK10

The Mira series consists of a range of LED sources to deliver the desired light effect to facades, columns, bridges, monuments, and signs. The series is made of a die cast aluminium body with electrostatic powder paint finished with a 316L stainless steel cover. The recessed versions are for Walk over up to 20 kN including a stainless steel recessing box. The surface mounted versions come with a heavy-duty 316L stainless steel bracket. The fixtures come with integrated electronic ballasts and a specially developed potted power cable to effectively bond with the cast resin and stop any water ingress. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.



Cover
316L Stainless steel
Body
Die cast aluminium
Diffusers
12 mm Tempered Glass
Gaskets
Silicone
Screws
316L Stainless Steel
Recessing Box
Steel



"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finished of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

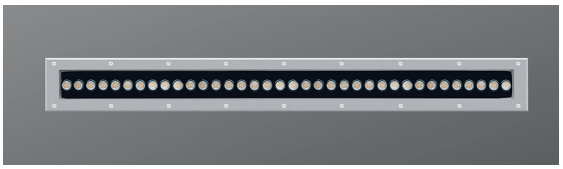
MIRA 5

RECESSED WALK OVER FIXTURES
Load 20 kN | Class I IP67 IK10



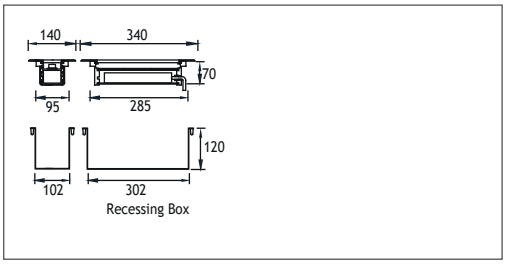
Led : Power LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 12mm Tempered Glass
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red



340mm

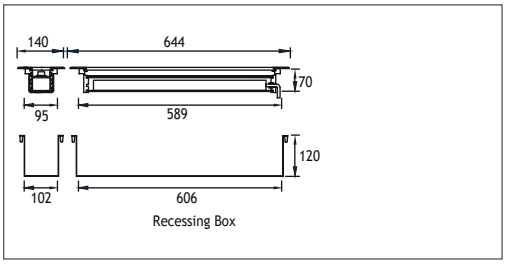




Power	Kelvin	Real Lumen Output	Lens	Code No
9W	2700 K	855 lm	10°,25°,40°	441005
9W	3000 K	855 lm	10°,25°,40°	441001
9W	4000 K	872 lm	10°,25°,40°	441002
9W	6000 K	890 lm	10°,25°,40°	441003
27W	RGB		25°,40°	441004

644mm

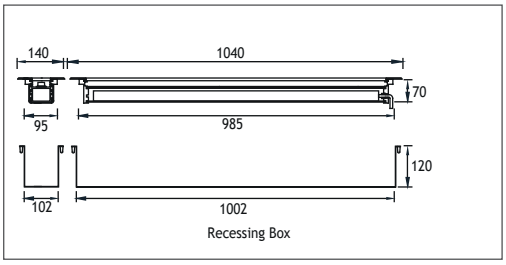




Power	Kelvin	Real Lumen Output	Lens	Code No
18W	2700 K	1710 lm	10°,25°,40°	441105
18W	3000 K	1710 lm	10°,25°,40°	441101
18W	4000 K	1744 lm	10°,25°,40°	441102
18W	6000 K	1779 lm	10°,25°,40°	441103
54W	RGB		25°,40°	441104

1040mm

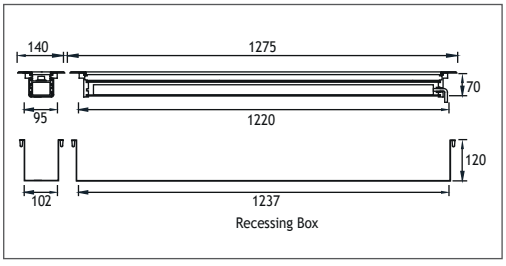




Power	Kelvin	Real Lumen Output	Lens	Code No
36W	2700 K	3420 lm	10°,25°,40°	441205
36W	3000 K	3420 lm	10°,25°,40°	441201
36W	4000 K	3488 lm	10°,25°,40°	441202
36W	6000 K	2558 lm	10°,25°,40°	441203
81W	RGB		25°,40°	441204

1275mm





Power	Kelvin	Real Lumen Output	Lens	Code No
45W	2700 K	4275 lm	10°,25°,40°	441304
45W	3000 K	4275 lm	10°,25°,40°	441301
45W	4000 K	4360 lm	10°,25°,40°	441302
45W	6000 K	4360 lm	10°,25°,40	441303



MILET ANI

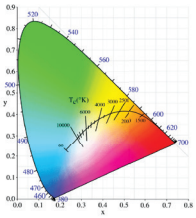
RECESSED WALK OVER FIXTURES
Load 2 kN | Class I IP67 IK10

EMFA's Ani step mounted series is specially designed to deliver low-glare lighting to facades, columns, monuments, and trees with minimal installation depth and narrow trim. The fixture is made of a combination of 316L stainless steel and die cast aluminium. The tilted design reduces the glare of the LED's The Linear LEDs with special lenses gives excellent wallwashing effect. An anti-slip glass is available upon request.

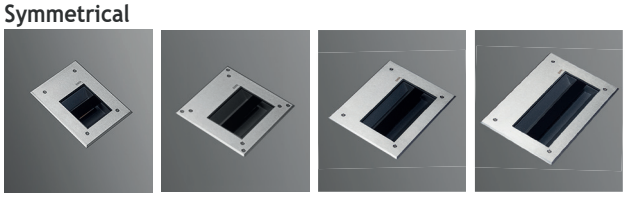


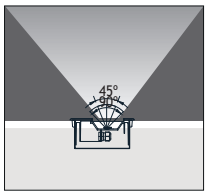
Cover
316L Stainless steel
Body
Die cast aluminium
Gaskets
Silicone
Diffusers
8 mm Tempered Glass
Screws
316L Stainless Steel

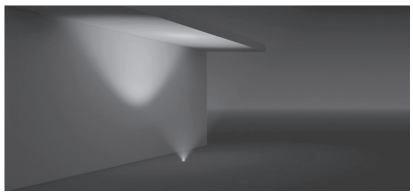
"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, and available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

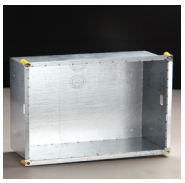


Symmetrical



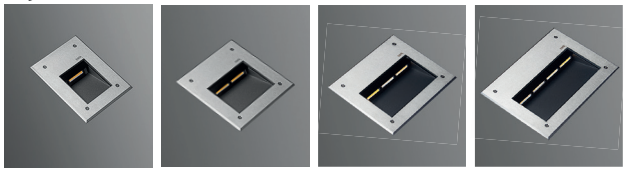


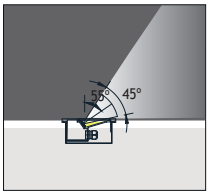


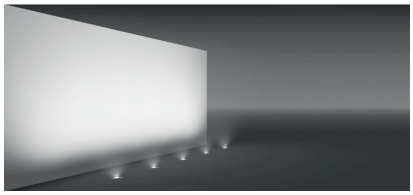


Galvanized Recessing Box

Asymmetrical







LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 100lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Asym. Glass



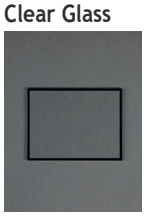
Trenched Glass



Milky Glass

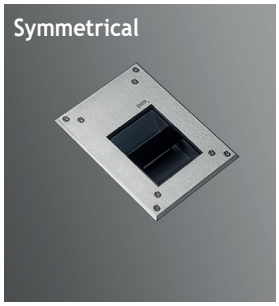


Clear Glass



MILET ANI

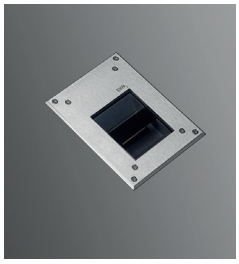
RECESSED WALK OVER FIXTURES
Load 2 kN | Class I IP67 IK10



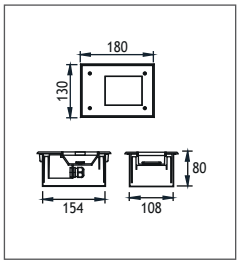


Led : Linear LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 8mm Tempered Glass
Beam Angle : 45° / 60° / 90°
Mac Adam : 3
CRI : >80
Cable : Potted 1m 3x1 H03 VV-F

ANI 1

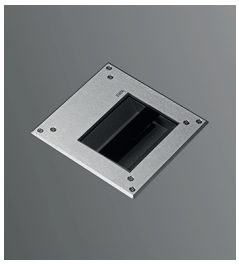




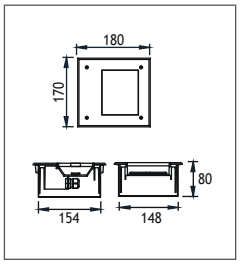


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
6W	2700 K	570 lm	451003	451503
6W	3000 K	570 lm	451001	451501
6W	4000 K	690 lm	451002	451502
12W	2700 K	1140 lm	451013	451513
12W	3000 K	1140 lm	451011	451511
12W	4000 K	1195 lm	451012	451512

ANI 2

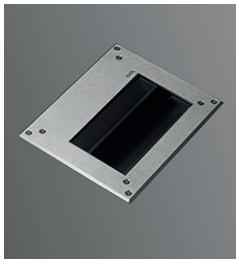


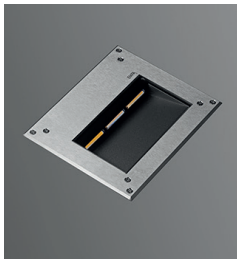


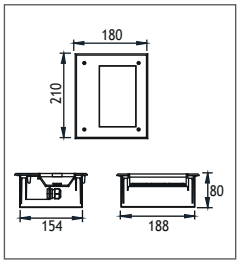


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
6W	2700 K	570 lm	451103	451603
6W	3000 K	570 lm	451101	451601
6W	4000 K	690 lm	451102	451602
12W	2700 K	1140 lm	451113	451613
12W	3000 K	1140 lm	451111	451611
12W	4000 K	1195 lm	451112	451612

ANI 3

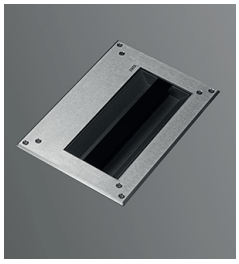




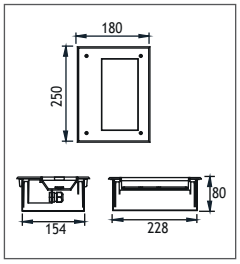


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
6W	2700 K	570 lm	451203	451703
6W	3000 K	570 lm	451201	451701
6W	4000 K	690 lm	451202	451702
12W	2700 K	1140 lm	451213	451713
12W	3000 K	1140 lm	451211	451711
12W	4000 K	1195 lm	451212	451712

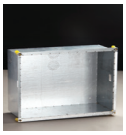
ANI 4







Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
6W	2700 K	570 lm	451321	451821
6W	3000 K	570 lm	451331	451831
6W	4000 K	690 lm	451301	451801
12W	2700 K	1140 lm	451311	451811
12W	3000 K	1140 lm	451302	451802
12W	4000 K	1195 lm	451312	451812



Galvanized Recessing Box

EMFA

ASSOS 6

RECESSED WALK OVER FIXTURES
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

EMFA's Assos 6 Alum series is specially designed to light trees and bushes where drive over is not required. The fixture can be equipped with metal halide, halogen or fluorescent lamps. The fixture is made of die cast aluminium and allows for allows for IP67 and IK10. The fixture comes with a polyamide recessing tube for easy mounting in the ground or concrete. A louvre can be ordered separately to reduce the glare of the lamps. An anti-slip glass is available upon request.



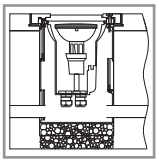






Cover
Die cast aluminium
Body
Die cast aluminium or aluminium profile with
die cast aluminium bottom and connection box.
Gaskets
Silicone
Diffusers
15 mm Tempered Glass (Aluminium Cover)
Screws
316L Stainless steel
Glands
2 x PG 13.5
Recessing Tube
Polyamide 6

Mounting Features

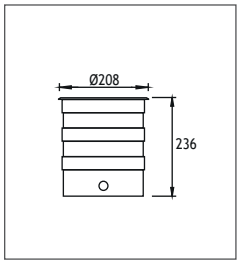


Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture.
To make the fixture drive over, the recessing tube should be mounted flush to the ground.

HALOGEN





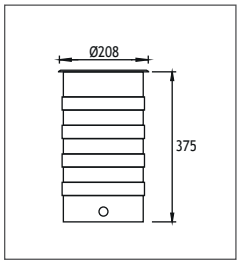


Power	Lampholder	Reflector	Code No Inox
PAR30 75W	E27 Adjustable	38°	211361
RJ 111 50W	G 53	38°	211561

METAL HALIDE







Power	Lampholder	Reflector	Code No Inox
35W M.H.	Gx8.5 Adjustable	12°,36°	211271
70W M.H.	G 12 Adjustable	30°,42°	211241
35W M.H.	Gx8.5 Adjustable	12°,36°	211201
70W M.H.	G 12 Adjustable	30°,42°	211211
150W M.H.	G 12 Adjustable	30°,42°	211221

MILET

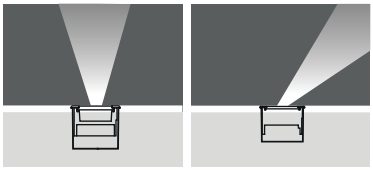
RECESSED WALK OVER FIXTURES
Load 7.5 kN | IP67 IK10

The Milet Recessed series consists of a range of LED and halogen sources to deliver the desired light effect to facades, columns, bridges, monuments, and trees. The fixtures are made of a combination of a 316L stainless steel cover and die cast aluminium body painted with electrostatic powder paint. Tempered glass, silicone gaskets and cast resin complete the fixture to make it IP67 IK10 and withstand rough environments. For the LED versions, a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. For the halogen versions, a PG9 cable gland allows for a secure connection of the on-site cable. A polycarbonate recessing box is included for installation into concrete or the ground. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.

Asymmetric LEDs
In this catalogue EMFA is introducing the tilted LED fixtures. These fixtures give an asymmetrical light output to facades, columns, bridges, monuments, and trees without losing light to the sky. The die cast aluminium body has a fixed built in tilt to allow for proper heat dissipation of the LEDs that can run up to 350mA.



Cover
316L Stainless Steel
Body
Die cast aluminium
Recessing Box
Polycarbonate
Glands
1 x PG 9
Gaskets
Silicone
Diffusers
12 mm Tempered Glass



Symmetrical Asymmetrical

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted to the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.
AntiStheft Screws

LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

MILET

RECESSED WALK OVER FIXTURES
Load 7.5 kN | IP67 IK10

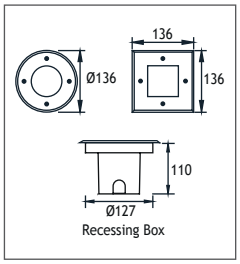



Voltage : 240 V A.C with integrated driver (24V AC or DC on request)
Diffuser : 8mm Clear Glass (Frosted Glass)
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

LED

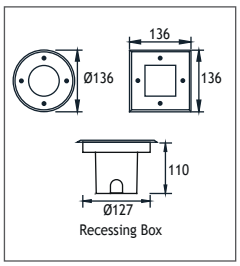




Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
4W	2700 K	380 lm	10°,25°,40°	425502	425212
4W	3000 K	380 lm	10°,25°,40°	425201	425211
4W	4000 K	387 lm	10°,25°,40°	425206	425216
4W	6000 K	395 lm	10°,25°,40°	425207	425217

HALOGEN

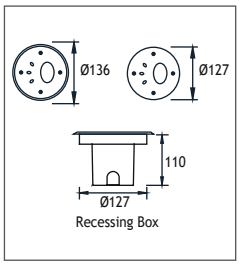




Power	Lampholder	Reflector	Code No Round	Square
35W HALOGEN	Gu5,3 12V	10°,38°	317111	316111
40W HALOGEN	G 9	10°,38°	317121	316121
50W HALOGEN	Gu10	10°,38°	317131	316131

HALOGEN





Power	Lampholder	Reflector	Code No Step	Flush
35W HALOGEN	Gu4 12V	10°,38°	319101	319201


RIXOS
TERSANE ISTANBUL

BIRGI

RECESSED WALK OVER FIXTURES
Class I IP67 IK08

Available in any of these RAL colors

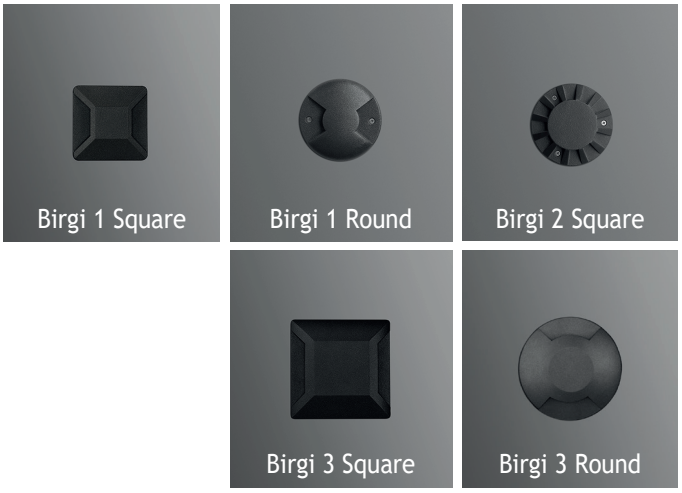
7004 7016 9005 9016 6002 1015

EMFA's Birgi series is specially designed to light pathways, roads, and gardens. The fixture can be equipped with LED. The fixture has 3 different options of cover: Multi, Mono, Dual, and Wall to give different lighting effects. In combination with the die cast aluminium body, the fixture allows for IP67 and IK08. The fixture comes with a polyamide recessing tube for easy mounting in the ground or concrete.

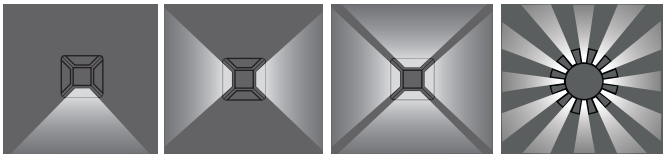


Asymmetrical LEDs
These fixtures give an asymmetrical light output to facades, columns, bridges, monuments, and trees without losing light to the sky. The die cast aluminium body has a fixed built in tilt to allow for proper heat dissipation of the LEDs that can run up to 700mA.

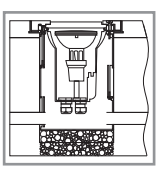
Cover
Die cast aluminium
Body
Die cast aluminium or aluminium profile with die cast aluminium bottom and connection box.
Gaskets
Silicone
Diffusers
Tempered press glass or polycarbonate
Screws
316L Stainless steel
Recessing Tube
Aluminium



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.



Mounting Features



Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture.
To make the fixture drive over, the recessing tube should be mounted flush to the ground.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

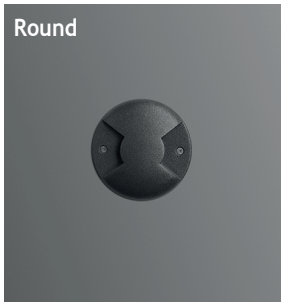
BIRGI 1

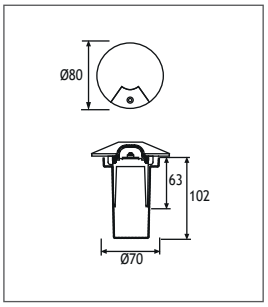
RECESSED WALK OVER FIXTURES
Class I IP67 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Round

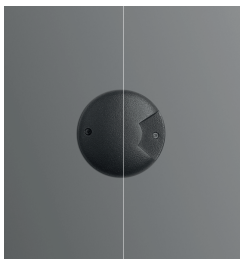


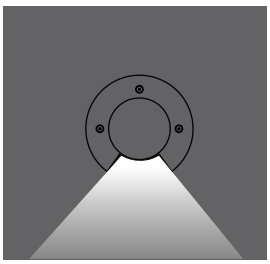


Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Polycarbonate
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

Mono

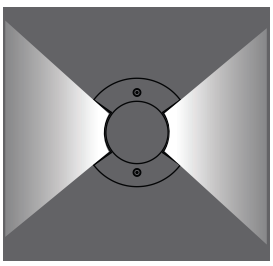




Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	471004
1W LED	3000 K	95 lm	471001
1W LED	4000 K	97 lm	471002
1W LED	6000 K	99 lm	471003
3W LED	2700 K	380 lm	471014
3W LED	3000 K	380 lm	471011
3W LED	4000 K	387 lm	471012
3W LED	6000 K	395 lm	471013

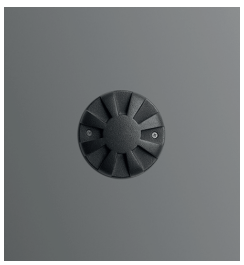
Dual

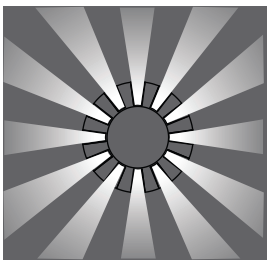




Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	471104
1W LED	3000 K	95 lm	471101
1W LED	4000 K	97 lm	471102
1W LED	6000 K	99 lm	471103
3W LED	2700 K	380 lm	471114
3W LED	3000 K	380 lm	471111
3W LED	4000 K	387 lm	471112
3W LED	6000 K	395 lm	471113

Multi





Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	471204
1W LED	3000 K	95 lm	471201
1W LED	4000 K	97 lm	471202
1W LED	6000 K	99 lm	471203
3W LED	2700 K	380 lm	471214
3W LED	3000 K	380 lm	471211
3W LED	4000 K	387 lm	471212
3W LED	6000 K	395 lm	471213

EMFA

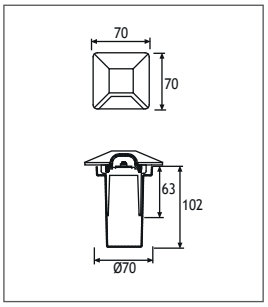
BIRGI 1

RECESSED WALK OVER FIXTURES
Class I IP67 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



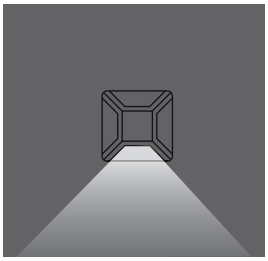


Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Polycarbonate
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

Mono

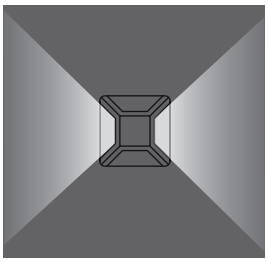




Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	470004
1W LED	3000 K	95 lm	470001
1W LED	4000 K	97 lm	470002
1W LED	6000 K	99 lm	470003
3W LED	2700 K	380 lm	470014
3W LED	3000 K	380 lm	470011
3W LED	4000 K	387 lm	470012
3W LED	6000 K	395 lm	470013

Dual

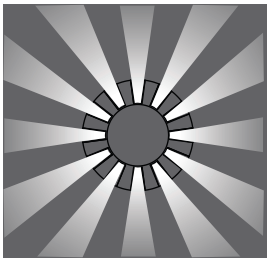




Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	470104
1W LED	3000 K	95 lm	470101
1W LED	4000 K	97 lm	470102
1W LED	6000 K	99 lm	470103
3W LED	2700 K	380 lm	470114
3W LED	3000 K	380 lm	470111
3W LED	4000 K	387 lm	470112
3W LED	6000 K	395 lm	470113

Multi





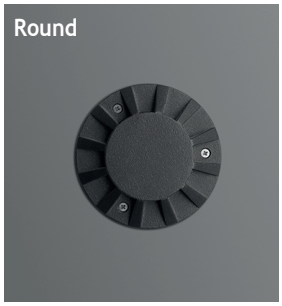
Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	471204
1W LED	3000 K	95 lm	471201
1W LED	4000 K	97 lm	471202
1W LED	6000 K	99 lm	471203
3W LED	2700 K	380 lm	471214
3W LED	3000 K	380 lm	471211
3W LED	4000 K	387 lm	471212
3W LED	6000 K	395 lm	471213

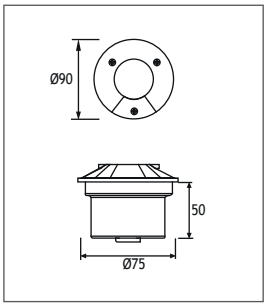
BIRGI 2 RECESSED WALK OVER FIXTURES
Class I IP67 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Round



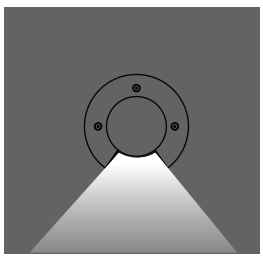


Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Polycarbonate
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

Mono

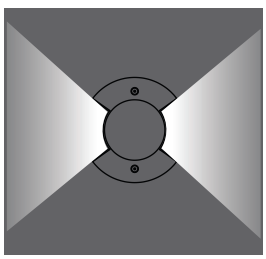




Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	480004
1W LED	3000 K	95 lm	480001
1W LED	4000 K	97 lm	480002
1W LED	6000 K	99 lm	480003
3W LED	2700 K	380 lm	480014
3W LED	3000 K	380 lm	480011
3W LED	4000 K	387 lm	480012
3W LED	6000 K	395 lm	480013

Dual

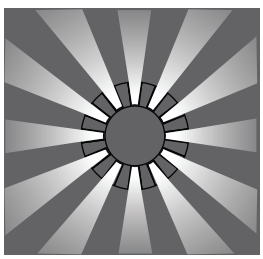




Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	480104
1W LED	3000 K	95 lm	480101
1W LED	4000 K	97 lm	480102
1W LED	6000 K	99 lm	480103
3W LED	2700 K	380 lm	480114
3W LED	3000 K	380 lm	480111
3W LED	4000 K	387 lm	480112
3W LED	6000 K	395 lm	480113

Multi





Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	480204
1W LED	3000 K	95 lm	480201
1W LED	4000 K	97 lm	480202
1W LED	6000 K	99 lm	480203
3W LED	2700 K	380 lm	480214
3W LED	3000 K	380 lm	480211
3W LED	4000 K	387 lm	480212
3W LED	6000 K	395 lm	480213

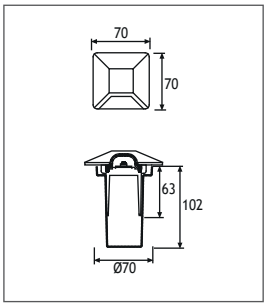
EMFA

BIRGI 2 RECESSED WALK OVER FIXTURES
Class I IP67 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



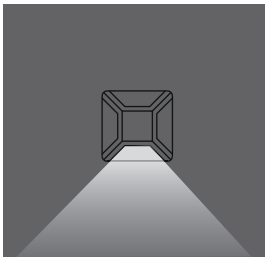


Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Polycarbonate
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

Mono

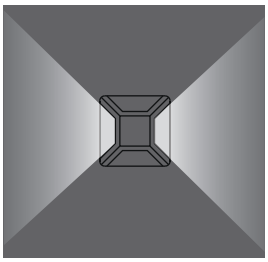




Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	470004
1W LED	3000 K	95 lm	470001
1W LED	4000 K	97 lm	470002
1W LED	6000 K	99 lm	470003
3W LED	2700 K	380 lm	470014
3W LED	3000 K	380 lm	470011
3W LED	4000 K	387 lm	470012
3W LED	6000 K	395 lm	470013

Dual

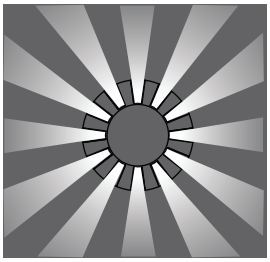




Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	470104
1W LED	3000 K	95 lm	470101
1W LED	4000 K	97 lm	470102
1W LED	6000 K	99 lm	470103
3W LED	2700 K	380 lm	470114
3W LED	3000 K	380 lm	470111
3W LED	4000 K	387 lm	470112
3W LED	6000 K	395 lm	470113

Multi





Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	471204
1W LED	3000 K	95 lm	471201
1W LED	4000 K	97 lm	471202
1W LED	6000 K	99 lm	471203
3W LED	2700 K	380 lm	471214
3W LED	3000 K	380 lm	471211
3W LED	4000 K	387 lm	471212
3W LED	6000 K	395 lm	471213

BIRGI 3

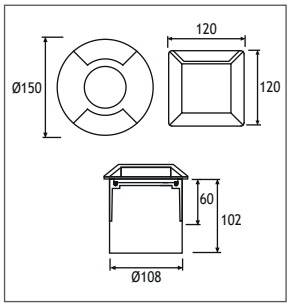
RECESSED WALK OVER FIXTURES
Class I IP67 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015







Voltage : 240 VAC with integrated driver (12-24 VDC on request)

Diffuser : Polycarbonate

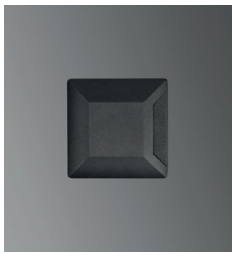
CRI : >80 or >90

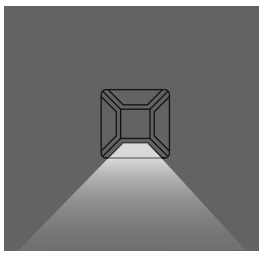
Cable : Potted 1m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

Mono





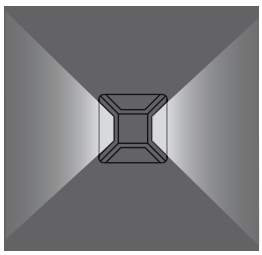


Power	Kelvin	Real Lumen Output	Code No Round	Square
1W LED	2700 K	1x 95 lm	491004	490004
1W LED	3000 K	1x 95 lm	491001	490001
1W LED	4000 K	1x 97 lm	491002	490002
1W LED	6000 K	1x 99 lm	491003	490003
3W LED	2700 K	1x 380 lm	491014	490014
3W LED	3000 K	1x 380 lm	491011	490011
3W LED	4000 K	1x 387 lm	491012	490012
3W LED	6000 K	1x 395 lm	491013	490013

Dual



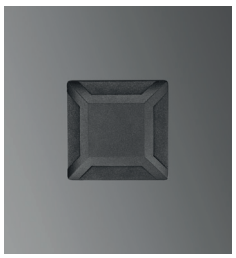


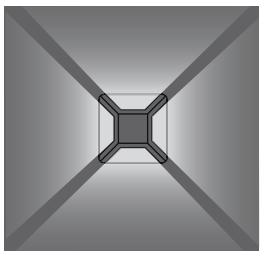


Power	Kelvin	Real Lumen Output	Code No Round	Square
2W LED	2700 K	2x 95 lm	491104	490104
2W LED	3000 K	2x 95 lm	491101	490101
2W LED	4000 K	2x 97 lm	491102	490102
2W LED	6000 K	2x 99 lm	491103	490103
6W LED	2700 K	2x 380 lm	491114	490114
6W LED	3000 K	2x 380 lm	491111	490111
6W LED	4000 K	2x 387 lm	491112	490112
6W LED	6000 K	2x 395 lm	491113	490113

Quad



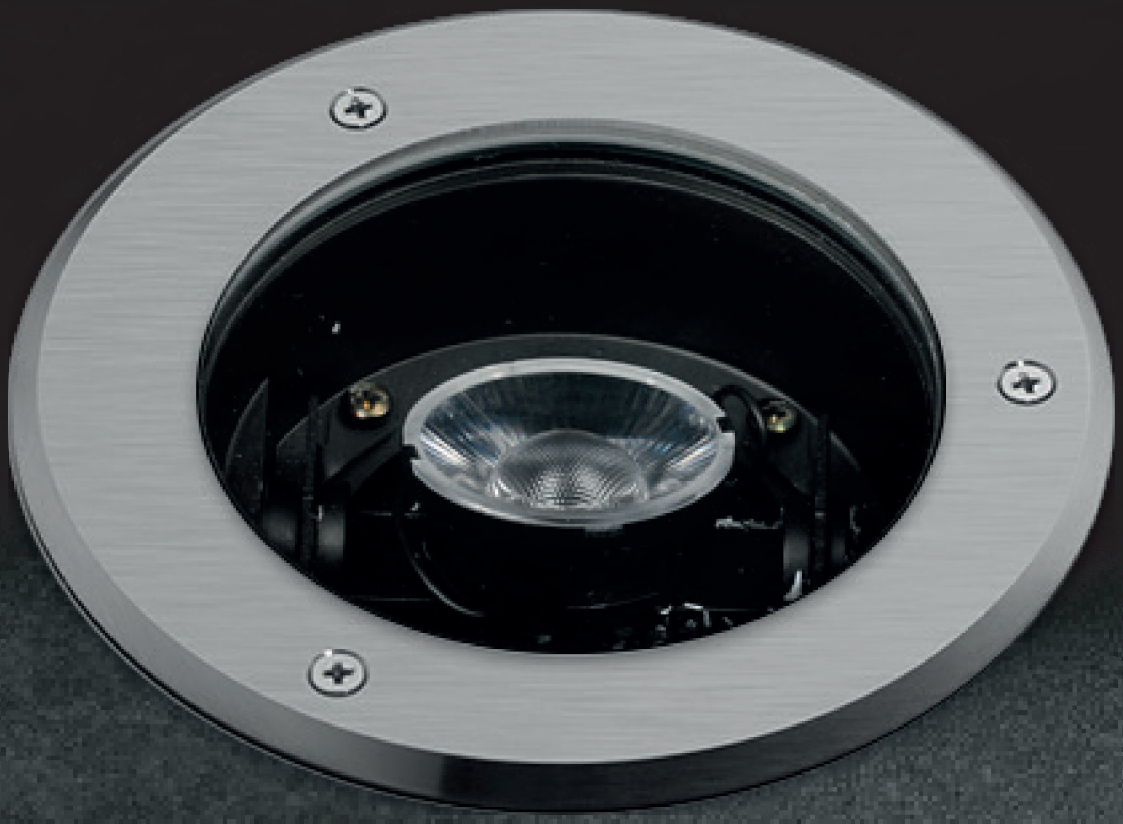




Power	Kelvin	Real Lumen Output	Code No Round	Square
4W LED	2700 K	4x 95 lm	491204	490204
4W LED	3000 K	4x 95 lm	491201	490201
4W LED	4000 K	4x 97 lm	491202	490202
4W LED	6000 K	4x 99 lm	491203	490203
12W LED	2700 K	4x 380 lm	491214	490214
12W LED	3000 K	4x 380 lm	491211	490211
12W LED	4000 K	4x 387 lm	491212	490212
12W LED	6000 K	4x 395 lm	491213	490213

EMFA

Kaman Adjustable Recessed



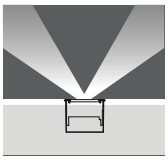
EMFA

KAMAN ADJUST ABLE LED RECESSED FIXTURES IP67 IK10

The Kaman Recessed series consists of a range of LED light sources to deliver the desired light effect to facades, columns, bridges, monuments, and trees. The fixtures are made of a combination of a 316L stainless steel cover and die cast aluminium body painted with electrostatic powder paint. Tempered glass, silicone gaskets and cast resin complete the fixture to make it IP67 IK10 and withstand rough environments. A specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The fixtures come with an aluminium recessing tube for easy mounting in the ground or concrete. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired light effect.



Asymmetrical LEDs
These fixtures give an asymmetrical light output to facades, columns, bridges, monuments, and trees without losing light to the sky. The die cast aluminium body has a fixed built in tilt to allow for proper heat dissipation of the LEDs that can run up to 700mA.



Adjustable

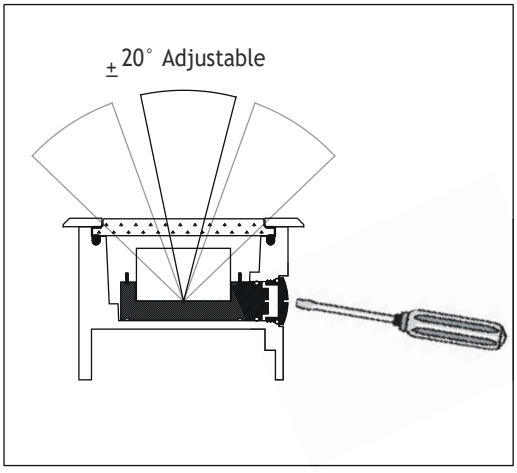


Cover
316L Stainless steel
Body
Die cast aluminium
Recessing Box
Aluminium
Gaskets
Silicone
Diffusers
Tempered Glass
Screws
316L Stainless steel

“Customization” is EMFA’s standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.



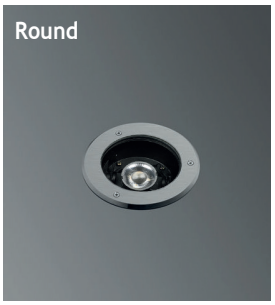


KAMAN 3

ADJUST ABLE LED RECESSED FIXTURES
IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015





Voltage : 240 VAC with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

CRI : >80 or >90

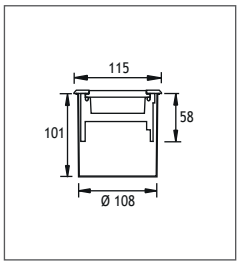
Cable : Potted 1m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Silicone





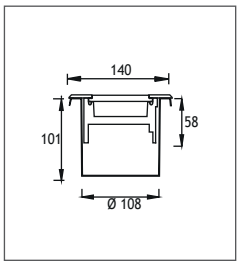


Power	Color	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,20°,30°	240003	240103
6W LED	3000 K	570 lm	10°,20°,30°	240001	240101
6W LED	4000 K	580 lm	10°,20°,30°	240002	240102
6W LED	6000 K	592 lm	10°,20°,30°	240004	240104
11W LED	2700 K	1045 lm	10°,20°,30°	240013	240113
11W LED	3000 K	1045 lm	10°,20°,30°	240011	240111
11W LED	4000 K	1065 lm	10°,20°,30°	240012	240112
11W LED	6000 K	1088 lm	10°,20°,30°	240014	240114

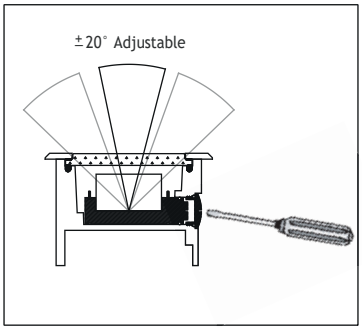
Fix to Recessing Tube with Screws

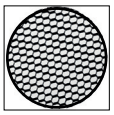






Power	Color	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,20°,30°	241003	241103
6W LED	3000 K	570 lm	10°,20°,30°	241001	241101
6W LED	4000 K	580 lm	10°,20°,30°	241002	241102
6W LED	6000 K	592 lm	10°,20°,30°	241004	241104
11W LED	2700 K	1045 lm	10°,20°,30°	241013	241113
11W LED	3000 K	1045 lm	10°,20°,30°	241011	241111
11W LED	4000 K	1065 lm	10°,20°,30°	241012	241112
11W LED	6000 K	1088 lm	10°,20°,30°	241014	241114





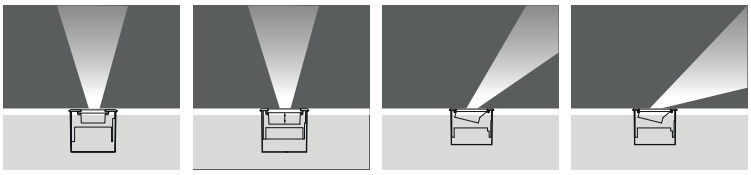
Honeycomb
Code No: 953511

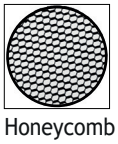
BELKIS RECESSED FIXTURES IP67 IK10

The Belkis Recessed series consists of a range of LED, fluorescent and halogen sources to deliver the desired light effect to facades, columns, bridges, monuments, and trees. The fixtures are made of a combination of a 316L stainless steel cover and die cast aluminium body painted with electrostatic powder paint. Tempered glass, silicone gaskets and cast resin complete the fixture to make it IP67 IK10 and withstand rough environments. A specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The fixtures come with an aluminium recessing tube for easy mounting in the ground or concrete. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired light effect.

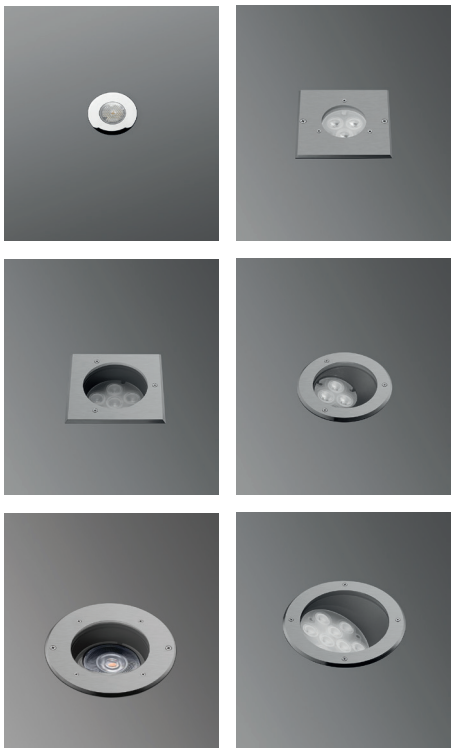
Asymmetrical LEDs
These fixtures give an asymmetrical light output to facades, columns, bridges, monuments, and trees without losing light to the sky. The die cast aluminium body has a fixed built in tilt to allow for proper heat dissipation of the LEDs that can run up to 700mA.

Cover
316L Stainless steel
Body
Die cast aluminium
Recessing Box
Aluminium
Gaskets
Silicone
Diffusers
Tempered Glass
Screws
316L Stainless steel


Symmetrical | Symmetrical Deep | 15° Asymmetrical | 25° Asymmetrical


Honeycomb

"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

BELKIS MINI

RECESSED WALK OVER FIXTURES
Class I IP67 IK08

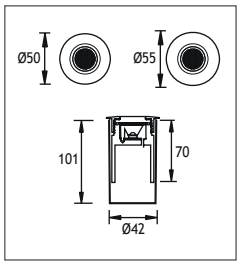


Voltage : 240 V A.C with integrated driver
(24V AC or DC on request)
Diffuser : 4mm Clear Glass (Frosted Glass on request)
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

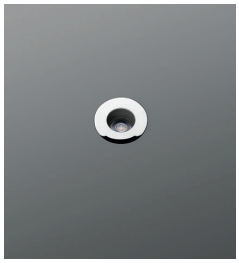
Symmetrical

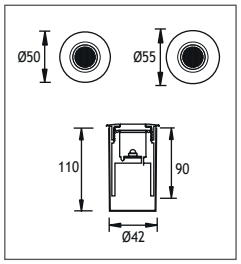




Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	391004
1W LED	3000 K	95 lm	10°,25°,40°	391001
1W LED	4000 K	97 lm	10°,25°,40°	391002
1W LED	6000 K	99 lm	10°,25°,40°	391003
3W LED	2700 K	380 lm	10°,25°,40°	391104
3W LED	3000 K	380 lm	10°,25°,40°	391101
3W LED	4000 K	387 lm	10°,25°,40°	391102
3W LED	6000 K	395 lm	10°,25°,40°	391103

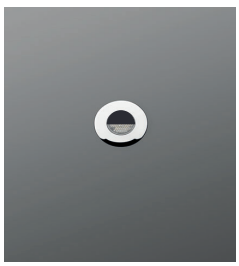
Symmetrical Deep

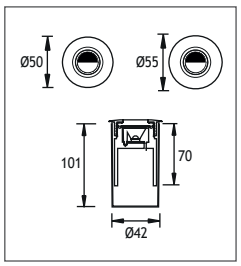




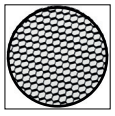
Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	391201
1W LED	3000 K	95 lm	10°,25°,40°	391202
1W LED	4000 K	97 lm	10°,25°,40°	391203
1W LED	6000 K	99 lm	10°,25°,40°	391204
3W LED	2700 K	380 lm	10°,25°,40°	391211
3W LED	3000 K	380 lm	10°,25°,40°	391212
3W LED	4000 K	387 lm	10°,25°,40°	391213
3W LED	6000 K	395 lm	10°,25°,40°	391214

Asymmetrical





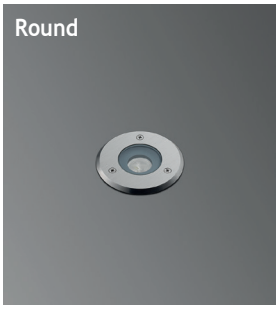
Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	391301
1W LED	3000 K	95 lm	10°,25°,40°	391302
1W LED	4000 K	97 lm	10°,25°,40°	391303
1W LED	6000 K	99 lm	10°,25°,40°	391304
3W LED	2700 K	380 lm	10°,25°,40°	391311
3W LED	3000 K	380 lm	10°,25°,40°	391312
3W LED	4000 K	387 lm	10°,25°,40°	391313
3W LED	6000 K	395 lm	10°,25°,40°	391314



Honeycomb
Code No: 953714



BELKIS 1 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





Voltage : 240V A.C with integrated driver (12-24 VDC on request)
Diffuser : Clear Glass 8mm (Frosted Glass on request)
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

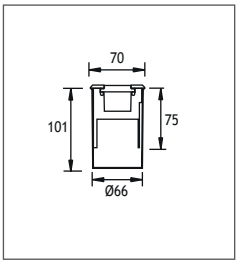
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Silicone

Symmetrical





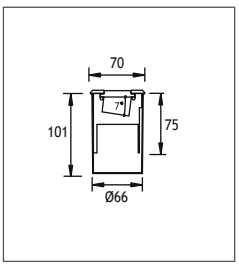


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
1W LED	2700 K	95 lm	10°,25°,40°	425192	425292
1W LED	3000 K	95 lm	10°,25°,40°	425191	425291
1W LED	4000 K	97 lm	10°,25°,40°	425196	425296
1W LED	6000 K	99 lm	10°,25°,40°	425197	425297
3W LED	2700 K	380 lm	10°,25°,40°	405504	405514
3W LED	3000 K	380 lm	10°,25°,40°	405501	405511
3W LED	4000 K	387 lm	10°,25°,40°	405502	405512
3W LED	6000 K	395 lm	10°,25°,40°	405503	405513

7° Asymmetrical

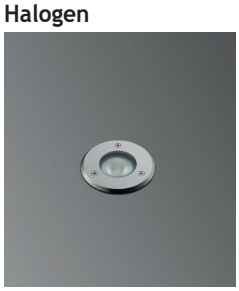




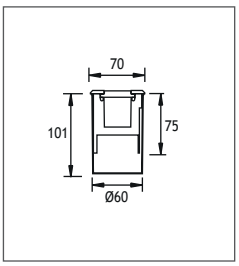


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
1W LED	2700 K	95 lm	10°,25°,40°	405544	405554
1W LED	3000 K	95 lm	10°,25°,40°	405541	405551
1W LED	4000 K	97 lm	10°,25°,40°	405542	405552
1W LED	6000 K	99 lm	10°,25°,40°	405543	405553
3W LED	2700 K	380 lm	10°,25°,40°	405584	405594
3W LED	3000 K	380 lm	10°,25°,40°	405581	405591
3W LED	4000 K	387 lm	10°,25°,40°	405582	405592
3W LED	6000 K	395 lm	10°,25°,40°	405583	405593

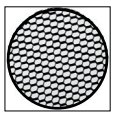
Halogen







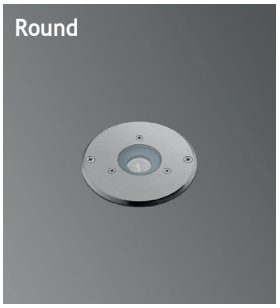
Power	Real Lumen Output	Reflector	Code No Round	Square
HALOGEN 12V 20W	95 lm	10°- 38°	320101	320201



Honeycomb
Code No: 953521

EMFA

BELKIS 1 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





Voltage : 240V A.C with integrated driver (12-24 VDC on request)
Diffuser : Clear Glass 8mm (Frosted Glass on request)
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

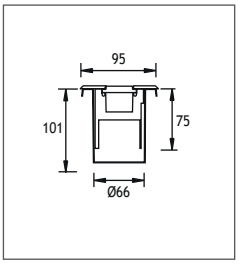
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Screws

Symmetrical





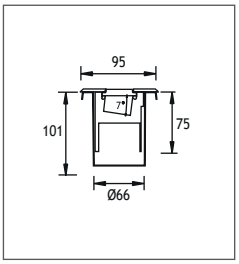


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Code No Square
1W LED	2700 K	95 lm	10°,25°,40°	425182	425282
1W LED	3000 K	95 lm	10°,25°,40°	425181	425281
1W LED	4000 K	97 lm	10°,25°,40°	425186	425286
1W LED	6000 K	99 lm	10°,25°,40°	425187	425287
3W LED	2700 K	380 lm	10°,25°,40°	405524	405534
3W LED	3000 K	380 lm	10°,25°,40°	405521	405531
3W LED	4000 K	387 lm	10°,25°,40°	405522	405532
3W LED	6000 K	395 lm	10°,25°,40°	405523	405533

7° Asymmetrical

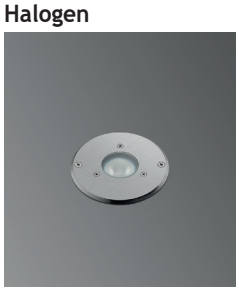




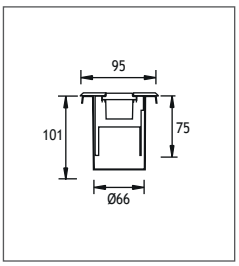


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Code No Square
1W LED	2700 K	95 lm	10°,25°,40°	405564	405574
1W LED	3000 K	95 lm	10°,25°,40°	405561	405571
1W LED	4000 K	97 lm	10°,25°,40°	405562	405572
1W LED	6000 K	99 lm	10°,25°,40°	405563	405573
3W LED	2700 K	380 lm	10°,25°,40°	405594	405614
3W LED	3000 K	380 lm	10°,25°,40°	405591	405611
3W LED	4000 K	387 lm	10°,25°,40°	405592	405612
3W LED	6000 K	395 lm	10°,25°,40°	405593	405613

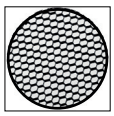
Halogen







Power	Real Lumen Output	Reflector	Code No Round	Code No Square
HALOGEN 12V 20W	95 lm	10°- 38°	320111	320211



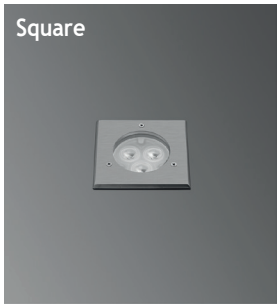
Honeycomb
Code No: 953521

EMFA



BELKIS 2 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass 8mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

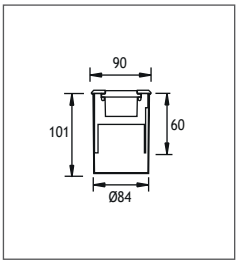
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Silicone

Symmetrical





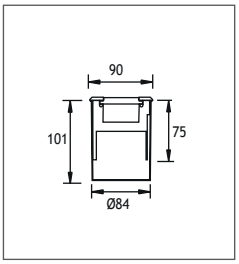


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	95 lm	10°,25°,40°	422102	422112
3W LED	3000 K	95 lm	10°,25°,40°	422101	422111
3W LED	4000 K	97 lm	10°,25°,40°	422106	422116
3W LED	6000 K	99 lm	10°,25°,40°	422107	422117
9W LED	2700 K	380 lm	10°,25°,40°	418334	418344
9W LED	3000 K	380 lm	10°,25°,40°	418331	418341
9W LED	4000 K	387 lm	10°,25°,40°	418332	418342
9W LED	6000 K	395 lm	10°,25°,40°	418333	418343
9W LED	RGB		25°,40°	418371	418381

Symmetrical Deep





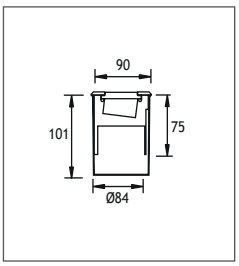


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	95 lm	10°,25°,40°	439001	439101
3W LED	3000 K	95 lm	10°,25°,40°	439002	439102
3W LED	4000 K	97 lm	10°,25°,40°	439003	439103
3W LED	6000 K	99 lm	10°,25°,40°	439004	439104
9W LED	2700 K	380 lm	10°,25°,40°	439011	439111
9W LED	3000 K	380 lm	10°,25°,40°	439012	439112
9W LED	4000 K	387 lm	10°,25°,40°	439013	439113
9W LED	6000 K	395 lm	10°,25°,40°	439014	439114
9W LED	RGB		25°,40°	439015	439115

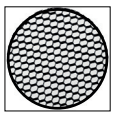
Wallwasher







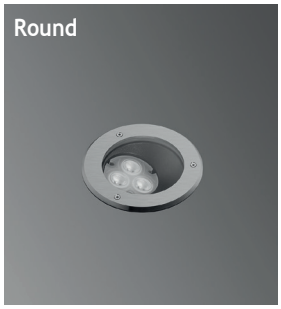
Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
1W LED	2700 K	95 lm	10°,25°,40°	326004	326014
1W LED	3000 K	95 lm	10°,25°,40°	326001	326011
1W LED	4000 K	97 lm	10°,25°,40°	326002	326012
1W LED	6000 K	99 lm	10°,25°,40°	326003	326013
3W LED	2700 K	285 lm	10°,25°,40°	326044	326054
3W LED	3000 K	285 lm	10°,25°,40°	326041	326051
3W LED	4000 K	290 lm	10°,25°,40°	326042	326052
3W LED	6000 K	296 lm	10°,25°,40°	326043	326053



Honeycomb
Code No: 953522

EMFA

BELKIS 2 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED

Voltage : 240 VAC with integrated driver
Diffuser : Clear Glass 8mm (Frosted Glass on request)
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

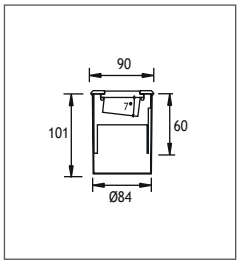
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Silicone

7° Asymmetrical





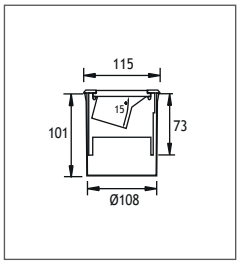


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	418394	418404
3W LED	3000 K	285 lm	10°,25°,40°	418391	418401
3W LED	4000 K	290 lm	10°,25°,40°	418392	418402
3W LED	6000 K	296 lm	10°,25°,40°	418393	418403
9W LED	2700 K	855 lm	10°,25°,40°	418434	418444
9W LED	3000 K	855 lm	10°,25°,40°	418431	418441
9W LED	4000 K	872 lm	10°,25°,40°	418432	418442
9W LED	6000 K	890 lm	10°,25°,40°	418433	418443
9W LED	RGB		25°,40°	418471	418481

15° Asymmetrical





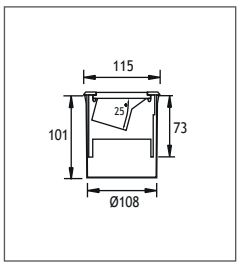


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	418514	418524
3W LED	3000 K	285 lm	10°,25°,40°	418511	418521
3W LED	4000 K	290 lm	10°,25°,40°	418512	418522
3W LED	6000 K	296 lm	10°,25°,40°	418513	418523
9W LED	2700 K	855 lm	10°,25°,40°	418554	418564
9W LED	3000 K	855 lm	10°,25°,40°	418551	418561
9W LED	4000 K	872 lm	10°,25°,40°	418552	418562
9W LED	6000 K	890 lm	10°,25°,40°	418553	418563
9W LED	RGB		25°,40°	418591	418601

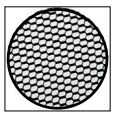
25° Asymmetrical







Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	418634	418644
3W LED	3000 K	285 lm	10°,25°,40°	418631	418641
3W LED	4000 K	290 lm	10°,25°,40°	418632	418642
3W LED	6000 K	296 lm	10°,25°,40°	418633	418643
9W LED	2700 K	855 lm	10°,25°,40°	418674	418684
9W LED	3000 K	855 lm	10°,25°,40°	418671	418681
9W LED	4000 K	872 lm	10°,25°,40°	418672	418682
9W LED	6000 K	890 lm	10°,25°,40°	418673	418683
9W LED	RGB		25°,40°	418711	418721



Honeycomb
Code No: 953522

BELKIS 2 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED

Voltage : 240 VAC with integrated driver
Diffuser : Clear Glass 8mm (Frosted Glass on request)
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

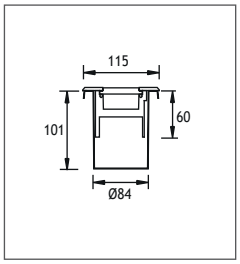
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Screws

7° Asymmetrical





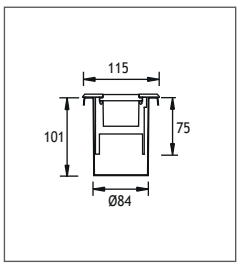


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	425162	425262
3W LED	3000 K	285 lm	10°,25°,40°	425161	425261
3W LED	4000 K	290 lm	10°,25°,40°	425166	425266
3W LED	6000 K	296 lm	10°,25°,40°	425167	425267
9W LED	2700 K	855 lm	10°,25°,40°	418354	418364
9W LED	3000 K	855 lm	10°,25°,40°	418351	418361
9W LED	4000 K	872 lm	10°,25°,40°	418352	418362
9W LED	6000 K	890 lm	10°,25°,40°	418353	418363
9W LED	RGB		25°,40°	425411	425421

Symmetrical Deep





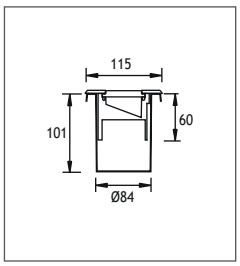


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	442001	442101
3W LED	3000 K	285 lm	10°,25°,40°	442002	442102
3W LED	4000 K	290 lm	10°,25°,40°	442003	442103
3W LED	6000 K	296 lm	10°,25°,40°	442004	442104
9W LED	2700 K	855 lm	10°,25°,40°	442011	442111
9W LED	3000 K	855 lm	10°,25°,40°	442012	442112
9W LED	4000 K	872 lm	10°,25°,40°	442013	442113
9W LED	6000 K	890 lm	10°,25°,40°	442014	442114
9W LED	RGB		25°,40°	442015	442115

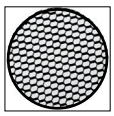
Wallwasher







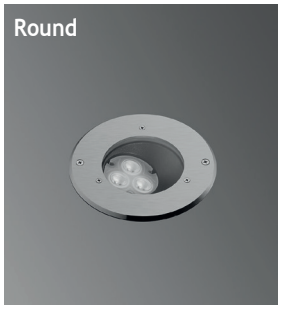
Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
1W LED	2700 K	95 lm	10°,25°,40°	326024	326034
1W LED	3000 K	95 lm	10°,25°,40°	326021	326031
1W LED	4000 K	97 lm	10°,25°,40°	326022	326032
1W LED	6000 K	99 lm	10°,25°,40°	326023	326033
3W LED	2700 K	285 lm	10°,25°,40°	326064	326074
3W LED	3000 K	285 lm	10°,25°,40°	326061	326071
3W LED	4000 K	290 lm	10°,25°,40°	326062	326072
3W LED	6000 K	296 lm	10°,25°,40°	326063	326073



Honeycomb
Code No: 953522

EMFA

BELKIS 2 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED

Voltage : 240 VAC with integrated driver
Diffuser : Clear Glass 8mm (Frosted Glass on request)
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

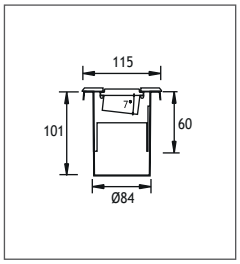
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Screws

7° Asymmetrical





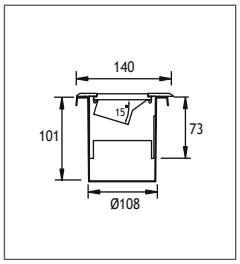


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	418414	418424
3W LED	3000 K	285 lm	10°,25°,40°	418411	418421
3W LED	4000 K	290 lm	10°,25°,40°	418412	418422
3W LED	6000 K	296 lm	10°,25°,40°	418413	418423
9W LED	2700 K	855 lm	10°,25°,40°	418464	418464
9W LED	3000 K	855 lm	10°,25°,40°	418461	418461
9W LED	4000 K	872 lm	10°,25°,40°	418462	418462
9W LED	6000 K	890 lm	10°,25°,40°	418463	418463
9W LED	RGB		25°,40°	418491	418501

15° Asymmetrical





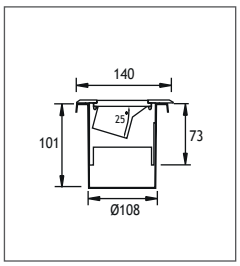


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	418534	418544
3W LED	3000 K	285 lm	10°,25°,40°	418531	418541
3W LED	4000 K	290 lm	10°,25°,40°	418532	418542
3W LED	6000 K	296 lm	10°,25°,40°	418533	418543
9W LED	2700 K	855 lm	10°,25°,40°	418874	418584
9W LED	3000 K	855 lm	10°,25°,40°	418871	418581
9W LED	4000 K	872 lm	10°,25°,40°	418872	418582
9W LED	6000 K	890 lm	10°,25°,40°	418873	418583
9W LED	RGB		25°,40°	418611	418621

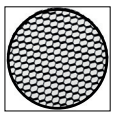
25° Asymmetrical







Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	418654	418664
3W LED	3000 K	285 lm	10°,25°,40°	418651	418661
3W LED	4000 K	290 lm	10°,25°,40°	418652	418662
3W LED	6000 K	296 lm	10°,25°,40°	418653	418663
9W LED	2700 K	855 lm	10°,25°,40°	418694	418704
9W LED	3000 K	855 lm	10°,25°,40°	418691	418701
9W LED	4000 K	872 lm	10°,25°,40°	418692	418702
9W LED	6000 K	890 lm	10°,25°,40°	418693	418703
9W LED	RGB		25°,40	418731	418741



Honeycomb
Code No: 953522

BELKIS 2 RECESSED WALK OVER WITH TIR LENS FIXTURES
Class I IP67 IK08





COB LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

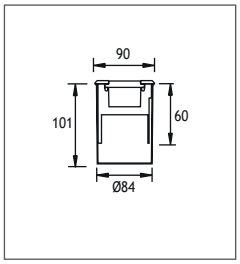
Cable : Potted 1 m 3x1 H03 VV-F

Fix to Recessing Tube with Silicone

Symmetrical





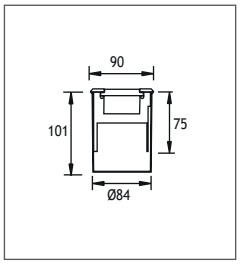


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,20°,30°	119003	119013
6W LED	3000 K	570 lm	10°,20°,30°	119001	119011
6W LED	4000 K	581 lm	10°,20°,30°	119002	119012
6W LED	6000 K	593 lm	10°,20°,30°	119004	119014
11W LED	2700 K	1045 lm	10°,20°,30°	119023	119033
11W LED	3000 K	1045 lm	10°,20°,30°	119021	119031
11W LED	4000 K	1065 lm	10°,20°,30°	119022	119032
11W LED	6000 K	1087 lm	10°,20°,30°	119024	119034

Symmetrical Deep





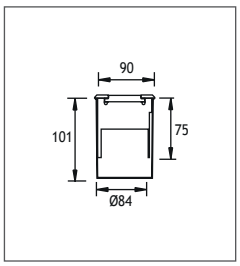


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,20°,30°	122001	122101
6W LED	3000 K	570 lm	10°,20°,30°	122002	122102
6W LED	4000 K	581 lm	10°,20°,30°	122003	122103
6W LED	6000 K	593 lm	10°,20°,30°	122004	122104
11W LED	2700 K	1045 lm	10°,20°,30°	122011	122111
11W LED	3000 K	1045 lm	10°,20°,30°	122012	122112
11W LED	4000 K	1065 lm	10°,20°,30°	122013	122113
11W LED	6000 K	1087 lm	10°,20°,30°	122014	122114

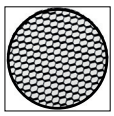
Halogen







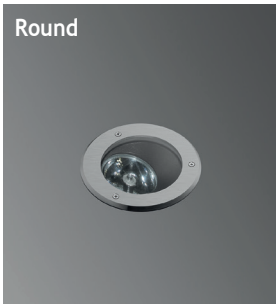
Power	Lampholder	Reflector	Code No Round	Square
HALOGEN 35W	Gu10	10°, 38°	322101	322201



Honeycomb
Code No: 953522

EMFA

BELKIS 2 RECESSED WALK OVER WITH TIR LENS FIXTURES
Class I IP67 IK08





COB LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

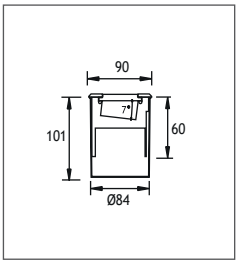
Cable : Potted 1 m 3x1 H03 VV-F

Fix to Recessing Tube with Silicone

7° Asymmetrical





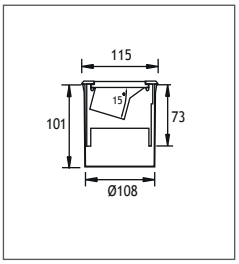


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	139001	139101
6W LED	3000 K	570 lm	10°,25°,40°	139002	139102
6W LED	4000 K	581 lm	10°,25°,40°	139003	139103
6W LED	6000 K	593 lm	10°,25°,40°	139004	139104
11W LED	2700 K	1045 lm	10°,25°,40°	139011	139111
11W LED	3000 K	1045 lm	10°,25°,40°	139012	139112
11W LED	4000 K	1065 lm	10°,25°,40°	139013	139113
11W LED	6000 K	1087 lm	10°,25°,40°	139014	139114

15° Asymmetrical





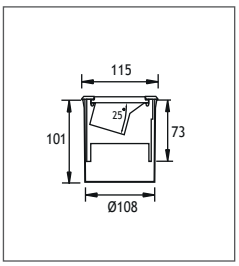


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	119203	119213
6W LED	3000 K	570 lm	10°,25°,40°	119201	119211
6W LED	4000 K	581 lm	10°,25°,40°	119202	119212
6W LED	6000 K	593 lm	10°,25°,40°	119204	119214
11W LED	2700 K	1045 lm	10°,25°,40°	119223	119233
11W LED	3000 K	1045 lm	10°,25°,40°	119221	119231
11W LED	4000 K	1065 lm	10°,25°,40°	119222	119232
11W LED	6000 K	1087 lm	10°,25°,40°	119224	119234

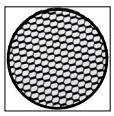
25° Asymmetrical







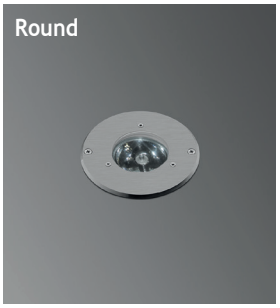
Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	119403	119413
6W LED	3000 K	570 lm	10°,25°,40°	119401	119411
6W LED	4000 K	581 lm	10°,25°,40°	119402	119412
6W LED	6000 K	593 lm	10°,25°,40°	119404	119414
11W LED	2700 K	1045 lm	10°,25°,40°	119423	119433
11W LED	3000 K	1045 lm	10°,25°,40°	119421	119431
11W LED	4000 K	1065 lm	10°,25°,40°	119422	119432
11W LED	6000 K	1087 lm	10°,25°,40°	119424	119434



Honeycomb
Code No: 953522


HYDE

BELKIS 2 RECESSED WALK OVER WITH TIR LENS FIXTURES
Class I IP67 IK08





COB LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

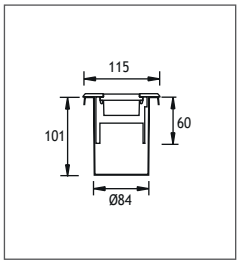
Cable : Potted 1 m 3x1 H03 VV-F

Fix to Recessing Tube with Screws

Symmetrical





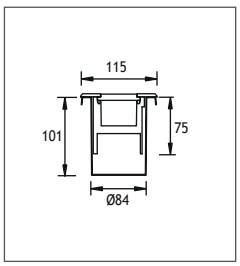


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	119103	119113
6W LED	3000 K	570 lm	10°,25°,40°	119101	119111
6W LED	4000 K	581 lm	10°,25°,40°	119102	119112
6W LED	6000 K	593 lm	10°,25°,40°	119104	119114
11W LED	2700 K	1045 lm	10°,25°,40°	119123	119133
11W LED	3000 K	1045 lm	10°,25°,40°	119121	119131
11W LED	4000 K	1065 lm	10°,25°,40°	119122	119132
11W LED	6000 K	1087 lm	10°,25°,40°	119124	119134

Symmetrical Deep





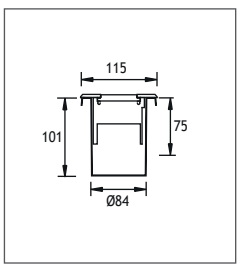


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	140001	140101
6W LED	3000 K	570 lm	10°,25°,40°	140002	140102
6W LED	4000 K	581 lm	10°,25°,40°	140003	140103
6W LED	6000 K	593 lm	10°,25°,40°	140004	140104
11W LED	2700 K	1045 lm	10°,25°,40°	140011	140111
11W LED	3000 K	1045 lm	10°,25°,40°	140012	140112
11W LED	4000 K	1065 lm	10°,25°,40°	140013	140113
11W LED	6000 K	1087 lm	10°,25°,40°	140014	140114

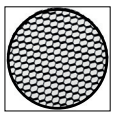
Halogen





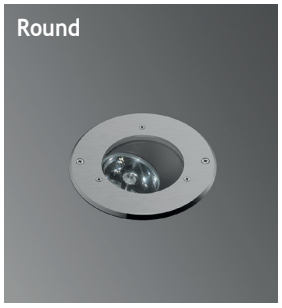


Power	Lampholder	Reflector	Code No Round	Square
HALOGEN 35W	Gu10	10°, 38°	322121	322221



Honeycomb
Code No: 953522

BELKIS 2 RECESSED WALK OVER WITH TIR LENS FIXTURES
Class I IP67 IK08





COB LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

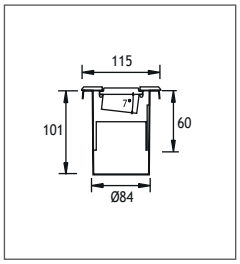
Cable : Potted 1 m 3x1 H03 VV-F

Fix to Recessing Tube with Screws

7° Asymmetrical



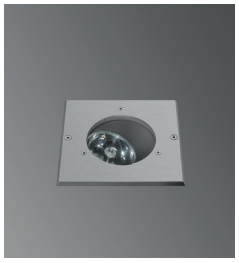


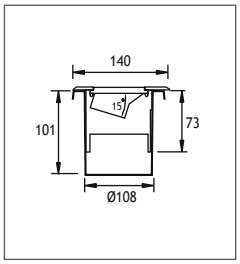


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,20°,30°	141001	141101
6W LED	3000 K	570 lm	10°,20°,30°	141002	141102
6W LED	4000 K	581 lm	10°,20°,30°	141003	141103
6W LED	6000 K	593 lm	10°,20°,30°	141004	141104
11W LED	2700 K	1045 lm	10°,20°,30°	141011	141111
11W LED	3000 K	1045 lm	10°,20°,30°	141012	141112
11W LED	4000 K	1065 lm	10°,20°,30°	141013	141113
11W LED	6000 K	1087 lm	10°,20°,30°	141014	141114

15° Asymmetrical





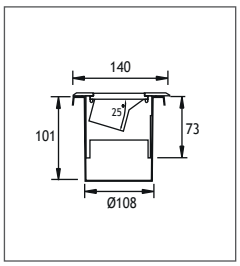


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,20°,30°	119304	119313
6W LED	3000 K	570 lm	10°,20°,30°	119301	119311
6W LED	4000 K	581 lm	10°,20°,30°	119302	119312
6W LED	6000 K	593 lm	10°,20°,30°	119305	119314
11W LED	2700 K	1045 lm	10°,20°,30°	119323	119333
11W LED	3000 K	1045 lm	10°,20°,30°	119321	119331
11W LED	4000 K	1065 lm	10°,20°,30°	119322	119332
11W LED	6000 K	1087 lm	10°,20°,30°	119324	119334

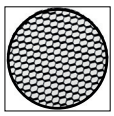
25° Asymmetrical







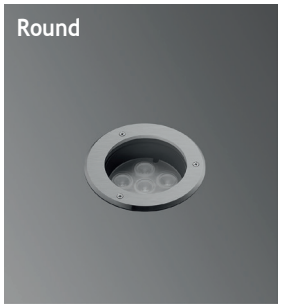
Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,20°,30°	119503	119513
6W LED	3000 K	570 lm	10°,20°,30°	119501	119511
6W LED	4000 K	581 lm	10°,20°,30°	119502	119512
6W LED	6000 K	593 lm	10°,20°,30°	119504	119514
11W LED	2700 K	1045 lm	10°,20°,30°	119523	119533
11W LED	3000 K	1045 lm	10°,20°,30°	119521	119531
11W LED	4000 K	1065 lm	10°,20°,30°	119522	119532
11W LED	6000 K	1087 lm	10°,20°,30°	119524	119534



Honeycomb
Code No: 953522

EMFA

BELKIS 3 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

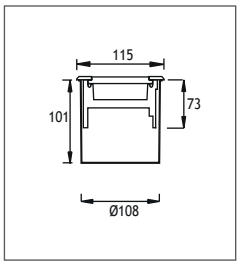
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Silicone

Symmetrical





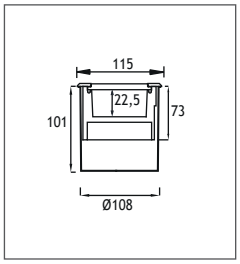


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	422204	422212
6W LED	3000 K	570 lm	10°,25°,40°	422201	422211
6W LED	4000 K	581 lm	10°,25°,40°	422202	422216
6W LED	6000 K	593 lm	10°,25°,40°	422203	422217
18W LED	RGB		25°,40°	422261	422271

Symmetrical Deep





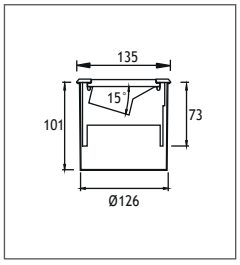


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	326104	326114
6W LED	3000 K	570 lm	10°,25°,40°	326101	326111
6W LED	4000 K	581 lm	10°,25°,40°	326102	326112
6W LED	6000 K	593 lm	10°,25°,40°	326103	326113
18W LED	RGB		25°,40°	326141	326151

15° Asymmetrical





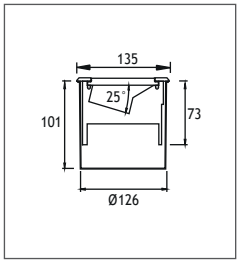


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	423104	423114
6W LED	3000 K	570 lm	10°,25°,40°	423101	423111
6W LED	4000 K	581 lm	10°,25°,40°	423102	423112
6W LED	6000 K	593 lm	10°,25°,40°	423103	423113
18W LED	RGB		25°,40°	423141	423151

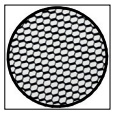
25° Asymmetrical







Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	423184	423194
6W LED	3000 K	570 lm	10°,25°,40°	423181	423191
6W LED	4000 K	581 lm	10°,25°,40°	423182	423192
6W LED	6000 K	593 lm	10°,25°,40°	423183	423193
18W LED	RGB		25°,40°	423221	423231



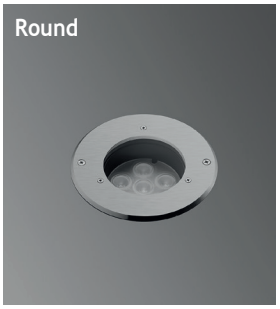
Honeycomb
Code No: 953523

S



EMFA

BELKIS 3 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

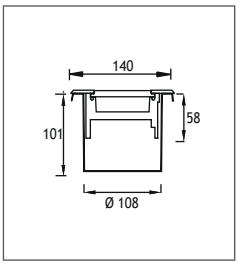
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Screws

Symmetrical





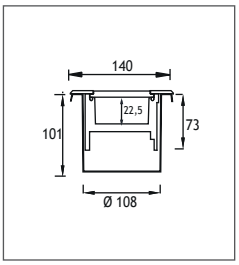


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	422222	422232
6W LED	3000 K	570 lm	10°,25°,40°	422221	422231
6W LED	4000 K	581 lm	10°,25°,40°	422226	422236
6W LED	6000 K	593 lm	10°,25°,40°	422227	422237
18W LED	RGB		25°,40°	422251	422251

Symmetrical Deep





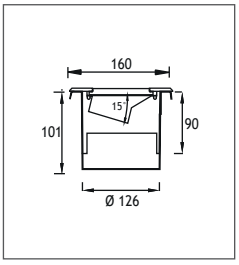


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	326124	326134
6W LED	3000 K	570 lm	10°,25°,40°	326121	326131
6W LED	4000 K	581 lm	10°,25°,40°	326122	326132
6W LED	6000 K	593 lm	10°,25°,40°	326123	326133
18W LED	RGB		25°,40°	326401	326411

15° Asymmetrical





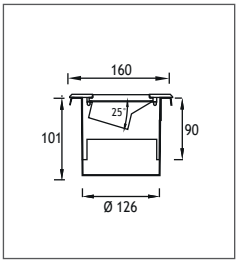


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	423124	423134
6W LED	3000 K	570 lm	10°,25°,40°	423121	423131
6W LED	4000 K	581 lm	10°,25°,40°	423122	423132
6W LED	6000 K	593 lm	10°,25°,40°	423123	423133
18W LED	RGB		25°,40°	423161	423171

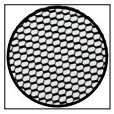
25° Asymmetrical







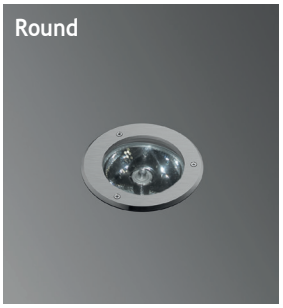
Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	423204	423214
6W LED	3000 K	570 lm	10°,25°,40°	423201	423211
6W LED	4000 K	581 lm	10°,25°,40°	423202	423212
6W LED	6000 K	593 lm	10°,25°,40°	423203	423213
18W LED	RGB		25°,40°	423241	423251



Honeycomb
Code No: 953523

BELKIS 3

RECESSED WALK OVER WITH TIR LENS FIXTURES
Class I IP67 IK08





COB LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

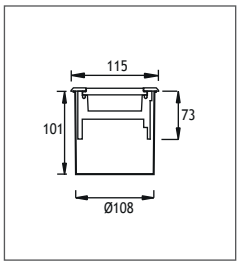
Cable : Potted 1 m 3x1 H03 VV-F

Fix to Recessing Tube with Silicone

Symmetrical





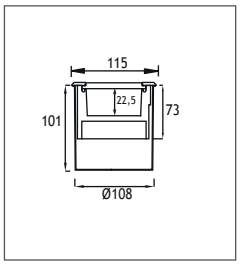


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	1045 lm	10°,20°,30°	119603	119613
6W LED	3000 K	1045 lm	10°,20°,30°	119601	119611
11W LED	4000 K	1065 lm	10°,20°,30°	119602	119612
11W LED	6000 K	1087 lm	10°,20°,30°	119604	119614

Symmetrical Deep





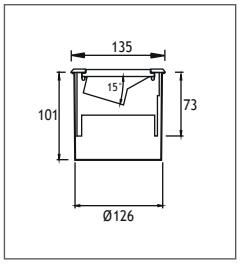


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	1045 lm	10°,20°,30°	120801	120811
6W LED	3000 K	1045 lm	10°,20°,30°	120802	120812
11W LED	4000 K	1065 lm	10°,20°,30°	120803	120813
11W LED	6000 K	1087 lm	10°,20°,30°	120804	120814

15° Asymmetrical





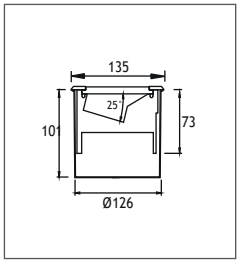


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	1045 lm	10°,20°,30°	119803	119813
6W LED	3000 K	1045 lm	10°,20°,30°	119801	119811
11W LED	4000 K	1065 lm	10°,20°,30°	119802	119812
11W LED	6000 K	1087 lm	10°,20°,30°	119804	119814

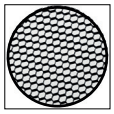
25° Asymmetrical







Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	1045 lm	10°,20°,30°	120003	120013
6W LED	3000 K	1045 lm	10°,20°,30°	120001	120011
11W LED	4000 K	1065 lm	10°,20°,30°	120002	120012
11W LED	6000 K	1087 lm	10°,20°,30°	120004	120014



Honeycomb
Code No: 953523

EMFA

BELKIS 3

RECESSED WALK OVER WITH TIR LENS FIXTURES
Class I IP67 IK08





COB LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

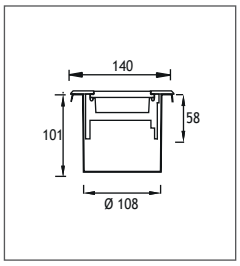
Cable : Potted 1 m 3x1 H03 VV-F

Fix to Recessing Tube with Screws

Symmetrical





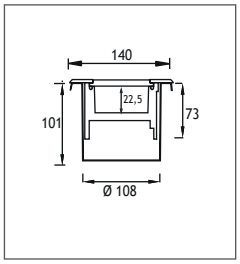


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	1045 lm	10°,20°,30°	119703	119713
6W LED	3000 K	1045 lm	10°,20°,30°	119701	119711
11W LED	4000 K	1065 lm	10°,20°,30°	119702	119712
11W LED	6000 K	1087 lm	10°,20°,30°	119704	119714

Symmetrical Deep





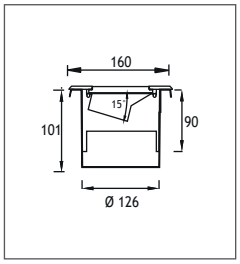


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	1045 lm	10°,20°,30°	120901	120911
6W LED	3000 K	1045 lm	10°,20°,30°	120902	120912
11W LED	4000 K	1065 lm	10°,20°,30°	120903	120913
11W LED	6000 K	1087 lm	10°,20°,30°	120904	120914

15° Asymmetrical





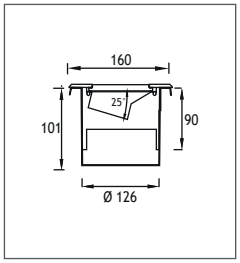


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	1045 lm	10°,20°,30°	119903	119913
6W LED	3000 K	1045 lm	10°,20°,30°	119901	119911
11W LED	4000 K	1065 lm	10°,20°,30°	119902	119912
11W LED	6000 K	1087 lm	10°,20°,30°	119904	119914

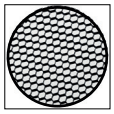
25° Asymmetrical







Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	1045 lm	10°,20°,30°	121003	121013
6W LED	3000 K	1045 lm	10°,20°,30°	121001	121011
11W LED	4000 K	1065 lm	10°,20°,30°	121002	121012
11W LED	6000 K	1087 lm	10°,20°,30°	121004	121014



Honeycomb
Code No: 953523

EMFA


SALATIKAT
CONNECT

BELKIS 4 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED or COB LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

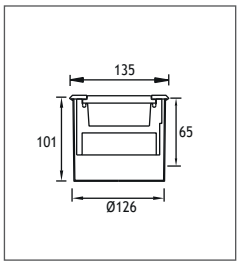
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Silicone

Symmetrical





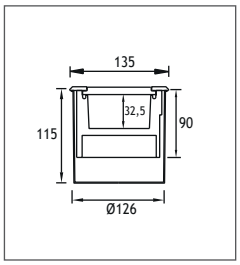


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
9W LED	2700 K	855 lm	10°,25°,40°	422302	422312
9W LED	3000 K	855 lm	10°,25°,40°	422301	422311
9W LED	4000 K	872 lm	10°,25°,40°	422306	422316
9W LED	6000 K	890 lm	10°,25°,40°	422307	422317

Symmetrical Deep





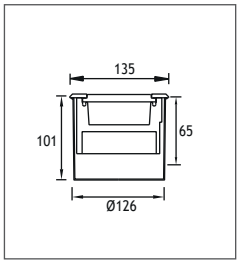


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
9W LED	2700 K	855 lm	10°,25°,40°	326204	326214
9W LED	3000 K	855 lm	10°,25°,40°	326201	326211
9W LED	4000 K	872 lm	10°,25°,40°	326202	326212
9W LED	6000 K	890 lm	10°,25°,40°	326203	326213

Symmetrical





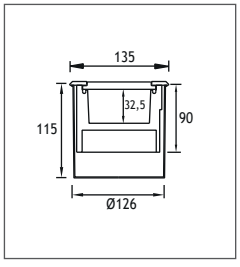


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
18W COB LED	2700 K	1710 lm	10°,20°,30°	120203	120213
18W COB LED	3000 K	1710 lm	10°,20°,30°	120201	120211
18W COB LED	4000 K	1744 lm	10°,20°,30°	120202	120212
18W COB LED	6000 K	1779 lm	10°,20°,30°	120204	120214

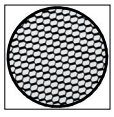
Symmetrical Deep





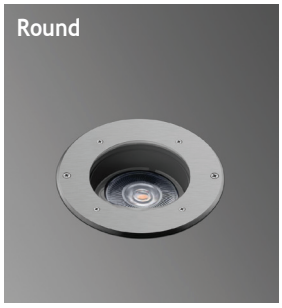


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
13W COB LED	2700 K	1235 lm	24°,38°	326303	326313
13W COB LED	3000 K	1235 lm	24°,38°	326301	326311
13W COB LED	4000 K	1259 lm	24°,38°	326302	326312
13W COB LED	6000 K	1259 lm	24°,38°	326304	326314



Honeycomb
Code No: 953524

BELKIS 4 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED or COB LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

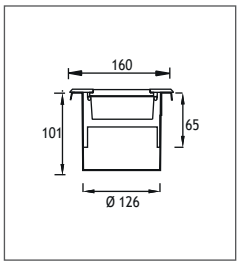
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Screws

Symmetrical





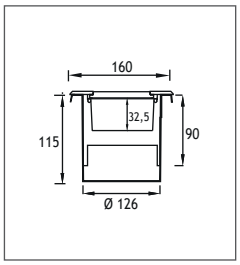


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Code No Square
9W LED	2700 K	855 lm	10°,25°,40°	422322	422332
9W LED	3000 K	855 lm	10°,25°,40°	422321	422331
9W LED	4000 K	872 lm	10°,25°,40°	422326	422336
9W LED	6000 K	890 lm	10°,25°,40°	422327	422337

Symmetrical Deep





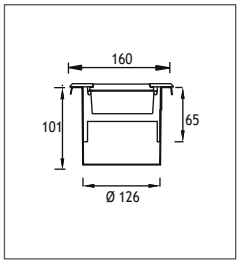


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Code No Square
9W LED	2700 K	855 lm	10°,25°,40°	326224	326234
9W LED	3000 K	855 lm	10°,25°,40°	326221	326231
9W LED	4000 K	872 lm	10°,25°,40°	326222	326232
9W LED	6000 K	890 lm	10°,25°,40°	326223	326233

Symmetrical





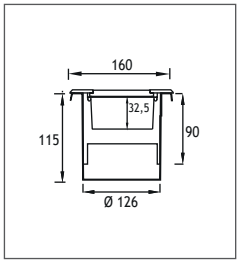


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Code No Square
18W COB LED	2700 K	1710 lm	10°,20°,30°	120303	120313
18W COB LED	3000 K	1710 lm	10°,20°,30°	120301	120311
18W COB LED	4000 K	1744 lm	10°,20°,30°	120302	120312
18W COB LED	6000 K	1779 lm	10°,20°,30°	120304	120314

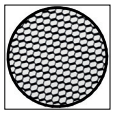
Symmetrical Deep







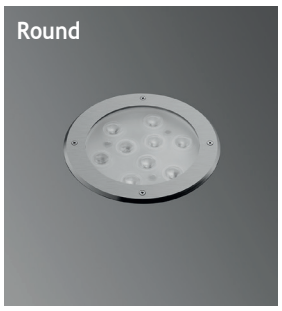
Power	Kelvin	Real Lumen Output	Lens	Code No Round	Code No Square
13W COB LED	2700 K	1235 lm	24°,38°	326323	326333
13W COB LED	3000 K	1235 lm	24°,38°	326321	326331
13W COB LED	4000 K	1259 lm	24°,38°	326322	326332
13W COB LED	6000 K	1259 lm	24°,38°	326324	326334



Honeycomb
Code No: 953524

EMFA

BELKIS 5 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED or COB LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

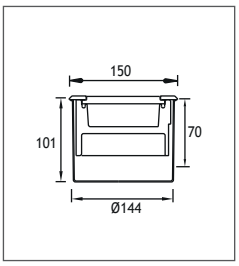
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Silicone

Symmetrical





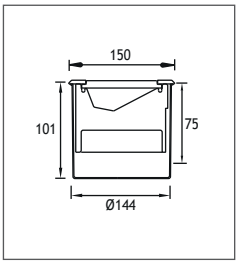


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
9W LED	2700 K	2560 lm	10°,25°,40°	422422	422432
9W LED	3000 K	2560 lm	10°,25°,40°	422421	422431
9W LED	4000 K	2610 lm	10°,25°,40°	422426	422436
9W LED	6000 K	2670 lm	10°,25°,40°	422427	422437
27W LED	2700 K	2560 lm	10°,25°,40°	423704	423314
27W LED	3000 K	2560 lm	10°,25°,40°	423301	423311
27W LED	4000 K	2610 lm	10°,25°,40°	423302	423312
27W LED	6000 K	2670 lm	10°,25°,40°	423303	423313
27W LED	RGB		25°,40°	423341	423351

Wallwasher





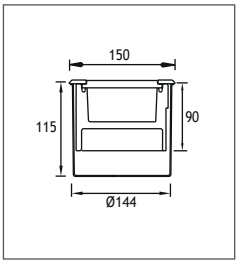


Power	Kelvin	Real Lumen Output	Reflector	Code No Round	Square
13W COB LED	2700 K	1235 lm	Asymmetrical	423704	423714
13W COB LED	3000 K	1235 lm	Asymmetrical	423701	423711
13W COB LED	4000 K	1259 lm	Asymmetrical	423702	423712
13W COB LED	6000 K	1284 lm	Asymmetrical	423703	423713

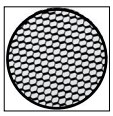
Symmetrical Halogen







Power	Lampholder	Reflector	Code No Round	Square
PAR 75W HALOGEN	E27	10°, 38°	324111	324211



Honeycomb
Code No: 953525

BELKIS 5 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED or COB LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

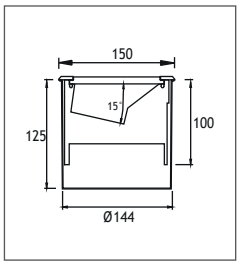
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Silicone

15°Asymmetrical





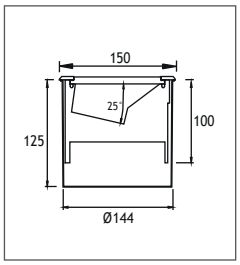


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
27W LED	2700 K	2560 lm	10°,25°,40°	423604	423614
27W LED	3000 K	2560 lm	10°,25°,40°	423601	423611
27W LED	4000 K	2610 lm	10°,25°,40°	423602	423612
27W LED	6000 K	2670 lm	10°,25°,40°	423603	423613
27W LED	RGB		25°,40°	423251	423411

25°Asymmetrical





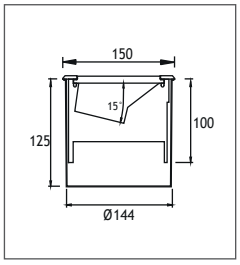


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
27W LED	2700 K	2560 lm	10°,25°,40°	423644	423654
27W LED	3000 K	2560 lm	10°,25°,40°	423641	423651
27W LED	4000 K	2610 lm	10°,25°,40°	423642	423652
27W LED	6000 K	2670 lm	10°,25°,40°	423643	423653
27W LED	RGB		25°,40°	423281	423491

15° Asymmetrical





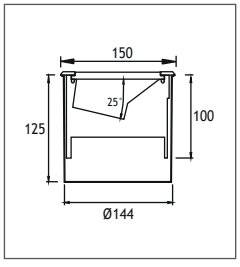


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
25W COB LED	2700 K	2375 lm	10°,20°,30°	120403	120413
25W COB LED	3000 K	2375 lm	10°,20°,30°	120401	120411
25W COB LED	4000 K	2422 lm	10°,20°,30°	120402	120412
25W COB LED	6000 K	2470 lm	10°,20°,30°	120404	120414

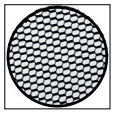
25° Asymmetrical







Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
25W COB LED	2700 K	2375 lm	10°,20°,30°	120603	120613
25W COB LED	3000 K	2375 lm	10°,20°,30°	120601	120611
25W COB LED	4000 K	2422 lm	10°,20°,30°	120602	120612
25W COB LED	6000 K	2470 lm	10°,20°,30°	120604	120614



Honeycomb
Code No: 953525

EMFA

BELKIS 5 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED or COB LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

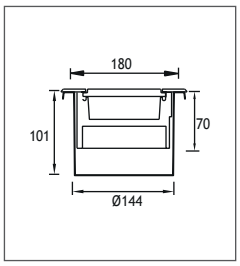
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Screws

Symmetrical





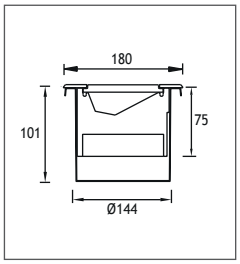


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
9W LED	2700 K	2560 lm	10°,25°,40°	422442	422432
9W LED	3000 K	2560 lm	10°,25°,40°	422441	422431
9W LED	4000 K	2610 lm	10°,25°,40°	422446	422436
9W LED	6000 K	2670 lm	10°,25°,40°	422447	422437
27W LED	2700 K	2560 lm	10°,25°,40°	423324	423334
27W LED	3000 K	2560 lm	10°,25°,40°	423321	423331
27W LED	4000 K	2610 lm	10°,25°,40°	423322	423332
27W LED	6000 K	2670 lm	10°,25°,40°	423323	423333
27W LED	RGB		25°,40°	422381	422491

Wallwasher





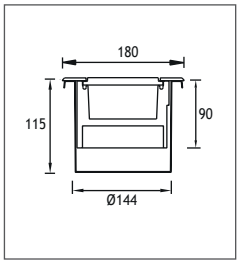


Power	Kelvin	Real Lumen Output	Reflector	Code No Round	Square
13W COB LED	2700 K	1235 lm	Asymmetrical	423724	423734
13W COB LED	3000 K	1235 lm	Asymmetrical	423721	423731
13W COB LED	4000 K	1259 lm	Asymmetrical	423722	423732
13W COB LED	6000 K	1284 lm	Asymmetrical	423723	423733

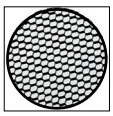
Symmetrical Halogen







Power	Lampholder	Reflector	Code No Round	Square
PAR 75W HALOGEN	E27	10°, 38°	324121	324221



Honeycomb
Code No: 953525

BELKIS 5 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED or COB LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

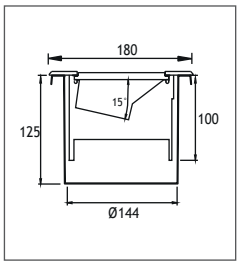
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Screws

15°Asymmetrical





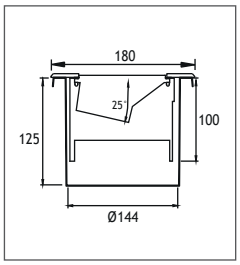


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
27W LED	2700 K	2560 lm	10°,25°,40°	423624	423634
27W LED	3000 K	2560 lm	10°,25°,40°	423621	423631
27W LED	4000 K	2610 lm	10°,25°,40°	423622	423632
27W LED	6000 K	2670 lm	10°,25°,40°	423623	423633
27W LED	RGB		25°,40°	423421	423431

25°Asymmetrical





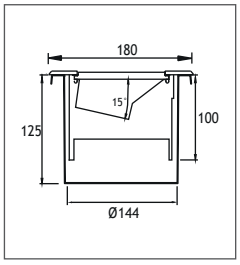


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
27W LED	2700 K	2560 lm	10°,25°,40°	423664	423674
27W LED	3000 K	2560 lm	10°,25°,40°	423661	423671
27W LED	4000 K	2610 lm	10°,25°,40°	423662	423672
27W LED	6000 K	2670 lm	10°,25°,40°	423663	423673
27W LED	RGB		25°,40°	423501	423511

15° Asymmetrical





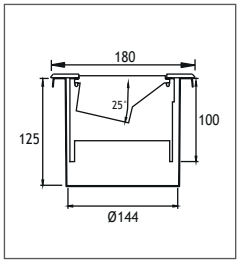


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
25W COB LED	2700 K	2375 lm	10°,20°,30°	120503	120513
25W COB LED	3000 K	2375 lm	10°,20°,30°	120501	120511
25W COB LED	4000 K	2422 lm	10°,20°,30°	120502	120512
25W COB LED	6000 K	2470 lm	10°,20°,30°	120504	120514

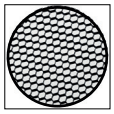
25° Asymmetrical







Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
25W COB LED	2700 K	2375 lm	10°,20°,30°	120703	120713
25W COB LED	3000 K	2375 lm	10°,20°,30°	120701	120711
25W COB LED	4000 K	2422 lm	10°,20°,30°	120702	120712
25W COB LED	6000 K	2470 lm	10°,20°,30°	120704	120714



Honeycomb
Code No: 953525

EMFA



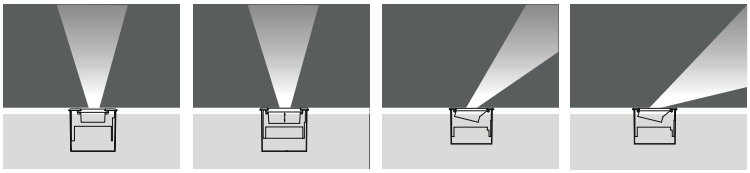


PATNOS RECESSED FIXTURES IP67 IK10

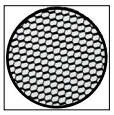
The Patnos series is an adaption of the Belkis Recessed series using less or no visible screws. No screws are visible on the cover if silicone is used to glue the fixture to the recessing tube. The series is designed to light walls, facades, columns, monuments, and trees. The fixtures are made of a combination of a 316L stainless steel cover and die cast aluminium body painted with electro-static powder paint. Tempered glass, silicone gaskets and cast resin complete the fixture to make it IP67 IK10 and withstand rough environments. A specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The fixtures come with an aluminium recessing tube for easy mounting in the ground or concrete. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired light effect.

Asymmetrical LEDs
In this catalogue EMFA is introducing the tilted LED fixtures. These fixtures give an asymmetrical light output to facades, columns, bridges, monuments, and trees without losing light to the sky. The die cast aluminium body has a fixed built in tilt to allow for proper heat dissipation of the LEDs that can run up to 700mA.

Cover
316L Stainless steel
Body
Die cast aluminium
Recessing Box
Aluminium
Gaskets
Silicone
Diffusers
Tempered Glass
Screws
316L Stainless steel

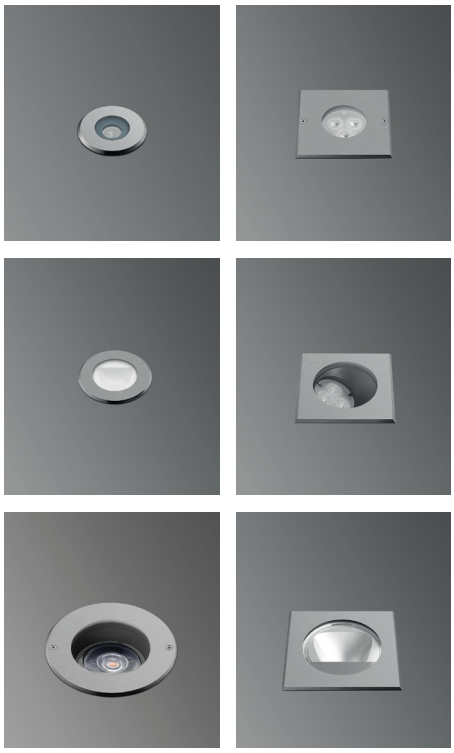


Symmetrical | Symmetrical Deep | 15° Asymmetrical | 25° Asymmetrical



Honeycomb

"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

PATNOS 1 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





Voltage : 240V A.C with integrated driver (12-24 VDC on request)
Diffuser : Clear Glass 8mm (Frosted Glass on request)
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

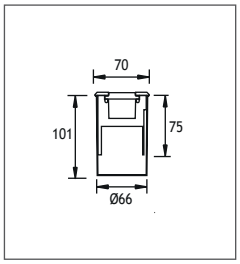
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Silicone

Symmetrical





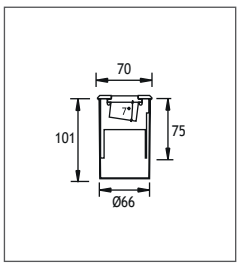


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
1W LED	2700 K	95 lm	10°,25°,40°	160004	160014
1W LED	3000 K	95 lm	10°,25°,40°	160001	160011
1W LED	4000 K	97 lm	10°,25°,40°	160002	160012
1W LED	6000 K	99 lm	10°,25°,40°	160003	160013
3W LED	2700 K	380 lm	10°,25°,40°	160044	160054
3W LED	3000 K	380 lm	10°,25°,40°	160041	160051
3W LED	4000 K	387 lm	10°,25°,40°	160042	160052
3W LED	6000 K	395 lm	10°,25°,40°	160043	160053

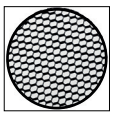
7° Asymmetrical





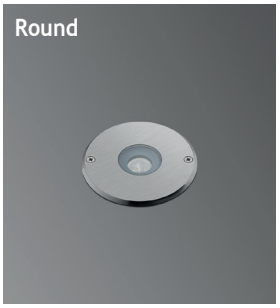


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
1W LED	2700 K	95 lm	10°,25°,40°	160204	160214
1W LED	3000 K	95 lm	10°,25°,40°	160201	160211
1W LED	4000 K	97 lm	10°,25°,40°	160202	160212
1W LED	6000 K	99 lm	10°,25°,40°	160203	160213
3W LED	2700 K	380 lm	10°,25°,40°	160244	160254
3W LED	3000 K	380 lm	10°,25°,40°	160241	160251
3W LED	4000 K	387 lm	10°,25°,40°	160242	160252
3W LED	6000 K	395 lm	10°,25°,40°	160243	160253



Honeycomb
Code No: 953521

PATNOS 1 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





Voltage : 240V A.C with integrated driver (12-24 VDC on request)
Diffuser : Clear Glass 8mm (Frosted Glass on request)
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

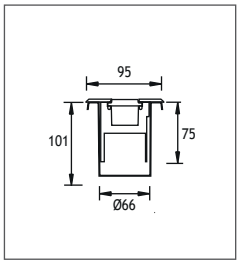
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Screws

Symmetrical





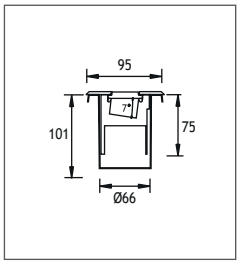


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
1W LED	2700 K	95 lm	10°,25°,40°	160024	160034
1W LED	3000 K	95 lm	10°,25°,40°	160021	160031
1W LED	4000 K	97 lm	10°,25°,40°	160022	160032
1W LED	6000 K	99 lm	10°,25°,40°	160023	160033
3W LED	2700 K	380 lm	10°,25°,40°	160064	160074
3W LED	3000 K	380 lm	10°,25°,40°	160061	160071
3W LED	4000 K	387 lm	10°,25°,40°	160062	160072
3W LED	6000 K	395 lm	10°,25°,40°	160063	160073

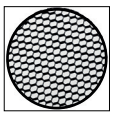
7° Asymmetrical







Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
1W LED	2700 K	95 lm	10°,25°,40°	160224	160234
1W LED	3000 K	95 lm	10°,25°,40°	160221	160231
1W LED	4000 K	97 lm	10°,25°,40°	160222	160232
1W LED	6000 K	99 lm	10°,25°,40°	160223	160233
3W LED	2700 K	380 lm	10°,25°,40°	160264	160274
3W LED	3000 K	380 lm	10°,25°,40°	160261	160271
3W LED	4000 K	387 lm	10°,25°,40°	160262	160272
3W LED	6000 K	395 lm	10°,25°,40°	160263	160273



Honeycomb
Code No: 953521

EMFA

PATNOS 2 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED (COB LED options available)

Voltage : 240V A.C with integrated driver
(12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

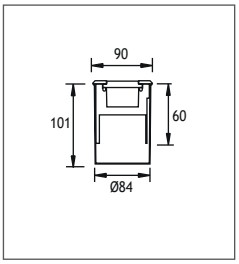
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Silicone

Symmetrical





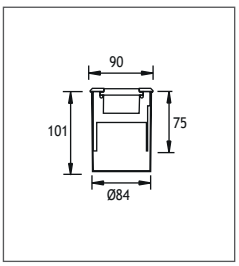


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	161004	161014
3W LED	3000 K	285 lm	10°,25°,40°	161001	161011
3W LED	4000 K	290 lm	10°,25°,40°	161002	161012
3W LED	6000 K	296 lm	10°,25°,40°	161003	161013
9W LED	2700 K	855 lm	10°,25°,40°	161044	161054
9W LED	3000 K	855 lm	10°,25°,40°	161041	161051
9W LED	4000 K	872 lm	10°,25°,40°	161042	161052
9W LED	6000 K	890 lm	10°,25°,40°	161043	161053
9W LED	RGB		25°,40°	161081	161091

Symmetrical Deep





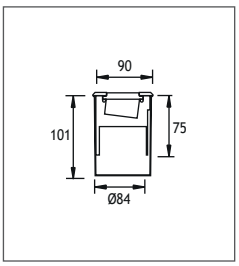


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	165001	165101
3W LED	3000 K	285 lm	10°,25°,40°	165002	165102
3W LED	4000 K	290 lm	10°,25°,40°	165003	165103
3W LED	6000 K	296 lm	10°,25°,40°	165004	165104
9W LED	2700 K	855 lm	10°,25°,40°	165011	165111
9W LED	3000 K	855 lm	10°,25°,40°	165012	165112
9W LED	4000 K	872 lm	10°,25°,40°	165013	165113
9W LED	6000 K	890 lm	10°,25°,40°	165014	165114
9W LED	RGB		25°,40°	165015	165115

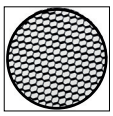
Wallwasher





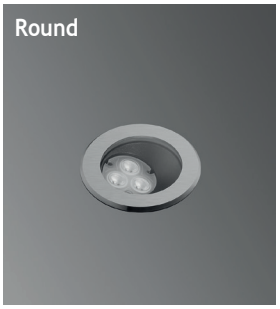


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
1W LED	2700 K	95 lm	10°,25°,40°	161604	161614
1W LED	3000 K	95 lm	10°,25°,40°	161601	161611
1W LED	4000 K	97 lm	10°,25°,40°	161602	161612
1W LED	6000 K	99 lm	10°,25°,40°	161603	161613
3W LED	2700 K	285 lm	10°,25°,40°	161644	161654
3W LED	3000 K	285 lm	10°,25°,40°	161641	161651
3W LED	4000 K	290 lm	10°,25°,40°	161642	161652
3W LED	6000 K	296 lm	10°,25°,40°	161643	161653



Honeycomb
Code No: 953522

PATNOS 2 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED (COB LED options available)

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

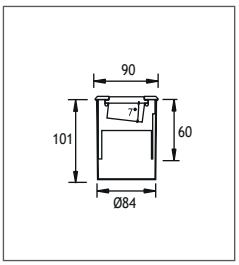
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Silicone

7° Asymmetrical





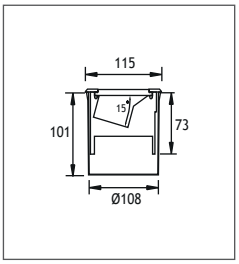


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	161204	161214
3W LED	3000 K	285 lm	10°,25°,40°	161201	161211
3W LED	4000 K	290 lm	10°,25°,40°	161202	161212
3W LED	6000 K	296 lm	10°,25°,40°	161203	161213
9W LED	2700 K	855 lm	10°,25°,40°	161244	161254
9W LED	3000 K	855 lm	10°,25°,40°	161241	161251
9W LED	4000 K	872 lm	10°,25°,40°	161242	161252
9W LED	6000 K	890 lm	10°,25°,40°	161243	161253
9W LED	RGB		25°,40°	161281	161291

15° Asymmetrical





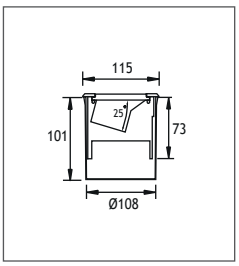


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	161324	161334
3W LED	3000 K	285 lm	10°,25°,40°	161321	161331
3W LED	4000 K	290 lm	10°,25°,40°	161322	161332
3W LVED	6000 K	296 lm	10°,25°,40°	161323	161333
9W LED	2700 K	855 lm	10°,25°,40°	161364	161374
9W LED	3000 K	855 lm	10°,25°,40°	161361	161371
9W LED	4000 K	872 lm	10°,25°,40°	161362	161372
9W LED	6000 K	890 lm	10°,25°,40°	161363	161373
9W LED	RGB		25°,40°	161401	161411

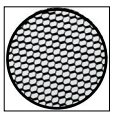
25° Asymmetrical







Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	161444	161454
3W LED	3000 K	285 lm	10°,25°,40°	161441	161451
3W LED	4000 K	290 lm	10°,25°,40°	161442	161452
3W LVED	6000 K	296 lm	10°,25°,40°	161443	161453
9W LED	2700 K	855 lm	10°,25°,40°	161484	161494
9W LED	3000 K	855 lm	10°,25°,40°	161481	161491
9W LED	4000 K	872 lm	10°,25°,40°	161482	161492
9W LED	6000 K	890 lm	10°,25°,40°	161483	161493
9W LED	RGB		25°,40°	161521	161531



Honeycomb
Code No: 953522

EMFA

PATNOS 2 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED (COB LED options available)

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

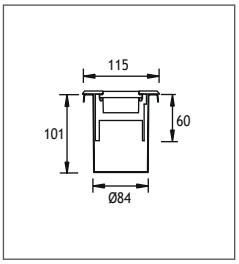
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Screws

Symmetrical





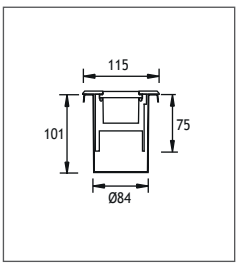


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	161024	161034
3W LED	3000 K	285 lm	10°,25°,40°	161021	161031
3W LED	4000 K	290 lm	10°,25°,40°	161022	161032
3W LED	6000 K	296 lm	10°,25°,40°	161023	161033
9W LED	2700 K	855 lm	10°,25°,40°	161064	161074
9W LED	3000 K	855 lm	10°,25°,40°	161061	161071
9W LED	4000 K	872 lm	10°,25°,40°	161062	161072
9W LED	6000 K	890 lm	10°,25°,40°	161063	161073
9W LED	RGB		25°,40°	161101	161111

Symmetrical Deep





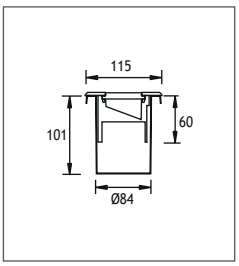


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	161701	161801
3W LED	3000 K	285 lm	10°,25°,40°	161702	161802
3W LED	4000 K	290 lm	10°,25°,40°	161703	161803
3W LED	6000 K	296 lm	10°,25°,40°	161704	161804
9W LED	2700 K	855 lm	10°,25°,40°	161711	161811
9W LED	3000 K	855 lm	10°,25°,40°	161071	161812
9W LED	4000 K	872 lm	10°,25°,40°	161072	161813
9W LED	6000 K	890 lm	10°,25°,40°	161073	161814
9W LED	RGB		25°,40°	161111	161815

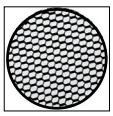
Wallwasher





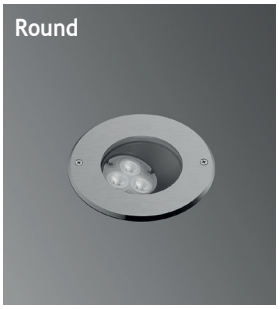


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
1W LED	2700 K	95 lm	10°,25°,40°	161624	161634
1W LED	3000 K	95 lm	10°,25°,40°	161621	161631
1W LED	4000 K	97 lm	10°,25°,40°	161622	161632
1W LED	6000 K	99 lm	10°,25°,40°	161623	161633
3W LED	2700 K	285 lm	10°,25°,40°	161664	161674
3W LED	3000 K	285 lm	10°,25°,40°	161661	161671
3W LED	4000 K	290 lm	10°,25°,40°	161662	161672
3W LED	6000 K	296 lm	10°,25°,40°	161663	161673



Honeycomb
Code No: 953522

PATNOS 2 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED (COB LED options available)

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

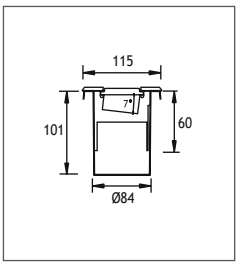
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Screws

7° Asymmetrical





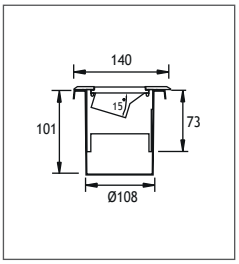


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	161224	161234
3W LED	3000 K	285 lm	10°,25°,40°	161221	161231
3W LED	4000 K	290 lm	10°,25°,40°	161222	161232
3W LED	6000 K	296 lm	10°,25°,40°	161223	161233
9W LED	2700 K	855 lm	10°,25°,40°	161264	161274
9W LED	3000 K	855 lm	10°,25°,40°	161261	161271
9W LED	4000 K	872 lm	10°,25°,40°	161262	161272
9W LED	6000 K	890 lm	10°,25°,40°	161263	161273
9W LED	RGB		25°,40°	161301	161311

15° Asymmetrical





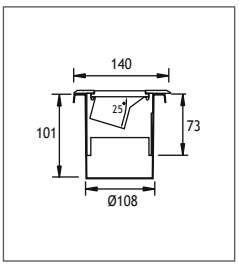


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	161344	161354
3W LED	3000 K	285 lm	10°,25°,40°	161341	161351
3W LED	4000 K	290 lm	10°,25°,40°	161342	161352
3W LVED	6000 K	296 lm	10°,25°,40°	161343	161353
9W LED	2700 K	855 lm	10°,25°,40°	161384	161394
9W LED	3000 K	855 lm	10°,25°,40°	161381	161391
9W LED	4000 K	872 lm	10°,25°,40°	161382	161392
9W LED	6000 K	890 lm	10°,25°,40°	161383	161393
9W LED	RGB		25°,40°	161421	161431

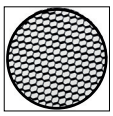
25° Asymmetrical







Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	161464	161474
3W LED	3000 K	285 lm	10°,25°,40°	161461	161471
3W LED	4000 K	290 lm	10°,25°,40°	161462	161472
3W LVED	6000 K	296 lm	10°,25°,40°	161463	161473
9W LED	2700 K	855 lm	10°,25°,40°	161504	161514
9W LED	3000 K	855 lm	10°,25°,40°	161501	161511
9W LED	4000 K	872 lm	10°,25°,40°	161502	161512
9W LED	6000 K	890 lm	10°,25°,40°	161503	161513
9W LED	RGB		25°,40°	161541	161551

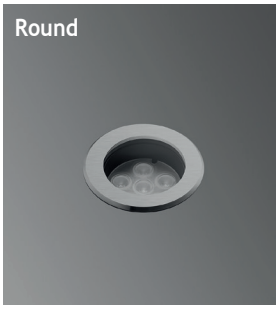


Honeycomb
Code No: 953522

EMFA



PATNOS 3 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED (COB LED options available)

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

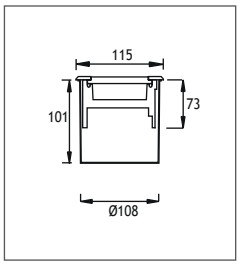
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Silicone

Symmetrical





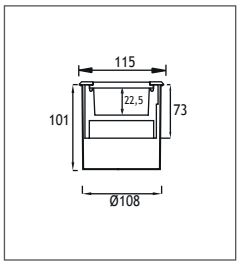


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	162004	162014
6W LED	3000 K	570 lm	10°,25°,40°	162001	162011
6W LED	4000 K	581 lm	10°,25°,40°	162002	162012
6W LED	6000 K	593 lm	10°,25°,40°	162003	162013
18W LED	RGB		25°,40°	162041	162051

Symmetrical Deep





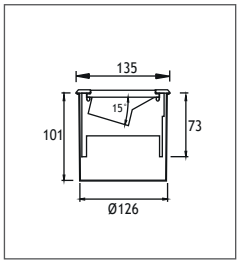


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	162404	162414
6W LED	3000 K	570 lm	10°,25°,40°	162401	162411
6W LED	4000 K	581 lm	10°,25°,40°	162402	162412
6W LED	6000 K	593 lm	10°,25°,40°	162403	162413
18W LED	RGB		25°,40°	162501	162511

15° Asymmetrical





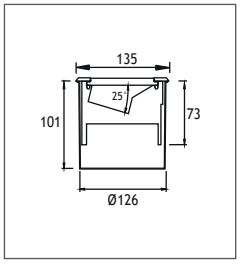


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	162204	162214
6W LED	3000 K	570 lm	10°,25°,40°	162201	162211
6W LED	4000 K	581 lm	10°,25°,40°	162202	162212
6W LED	6000 K	593 lm	10°,25°,40°	162203	162213
18W LED	RGB		25°,40°	162511	162251

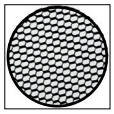
25° Asymmetrical







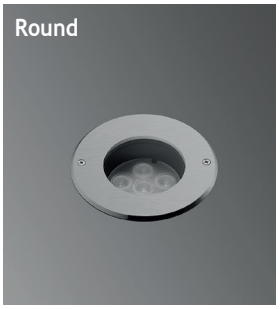
Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	162284	162294
6W LED	3000 K	570 lm	10°,25°,40°	162281	162291
6W LED	4000 K	581 lm	10°,25°,40°	162282	162292
6W LED	6000 K	593 lm	10°,25°,40°	162283	162293
18W LED	RGB		25°,40°	162321	162331



Honeycomb
Code No: 953523

EMFA

PATNOS 3 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED (COB LED options available)

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

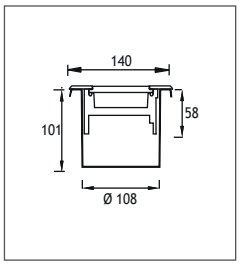
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Screws

Symmetrical





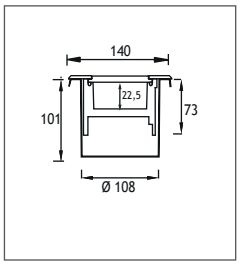


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	162024	162034
6W LED	3000 K	570 lm	10°,25°,40°	162021	162031
6W LED	4000 K	581 lm	10°,25°,40°	162022	162032
6W LED	6000 K	593 lm	10°,25°,40°	162023	162033
18W LED	RGB		25°,40°	162061	162071

Symmetrical Deep





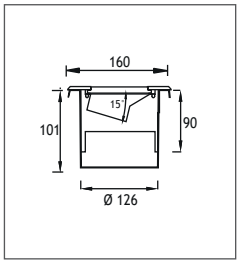


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	162424	162434
6W LED	3000 K	570 lm	10°,25°,40°	162421	162431
6W LED	4000 K	581 lm	10°,25°,40°	162422	162432
6W LED	6000 K	593 lm	10°,25°,40°	162423	162433
18W LED	RGB		25°,40°	162601	162611

15° Asymmetrical





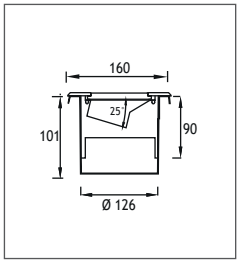


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	162224	162234
6W LED	3000 K	570 lm	10°,25°,40°	162221	162231
6W LED	4000 K	581 lm	10°,25°,40°	162222	162232
6W LED	6000 K	593 lm	10°,25°,40°	162223	162233
18W LED	RGB		25°,40°	162261	162271

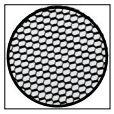
25° Asymmetrical







Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
6W LED	2700 K	570 lm	10°,25°,40°	162304	162314
6W LED	3000 K	570 lm	10°,25°,40°	162301	162311
6W LED	4000 K	581 lm	10°,25°,40°	162302	162312
6W LED	6000 K	593 lm	10°,25°,40°	162303	162313
18W LED	RGB		25°,40°	162341	162351



Honeycomb
Code No: 953523



PATNOS 4 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED or COB LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

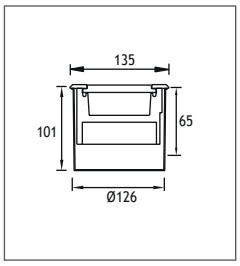
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Silicone

Symmetrical





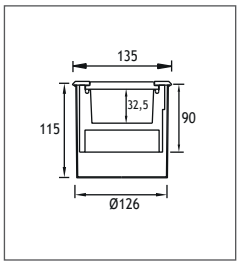


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
9W LED	2700 K	855 lm	10°,25°,40°	163004	163014
9W LED	3000 K	855 lm	10°,25°,40°	163001	163011
9W LED	4000 K	872 lm	10°,25°,40°	163002	163012
9W LED	6000 K	890 lm	10°,25°,40°	163003	163013

Symmetrical Deep





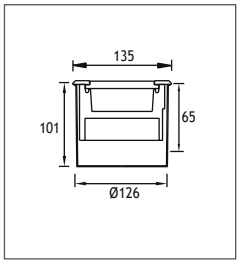


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
9W LED	2700 K	855 lm	10°,25°,40°	163104	163114
9W LED	3000 K	855 lm	10°,25°,40°	163101	163111
9W LED	4000 K	872 lm	10°,25°,40°	163102	163112
9W LED	6000 K	890 lm	10°,25°,40°	163103	163113

Symmetrical





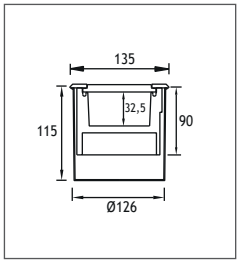


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
18W COB LED	2700 K	1710 lm	10°,20°,30°	163201	163211
18W COB LED	3000 K	1710 lm	10°,20°,30°	163202	163212
18W COB LED	4000 K	1744 lm	10°,20°,30°	163203	163213
18W COB LED	6000 K	1779 lm	10°,20°,30°	163204	163214

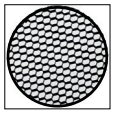
Symmetrical Deep







Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
13W COB LED	2700 K	1235 lm	24°,38°	163143	163153
13W COB LED	3000 K	1235 lm	24°,38°	163141	163151
13W COB LED	4000 K	1259 lm	24°,38°	163142	163152
13W COB LED	6000 K	1259 lm	24°,38°	163144	163154



Honeycomb
Code No: 953524

PATNOS 4 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED or COB LED

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

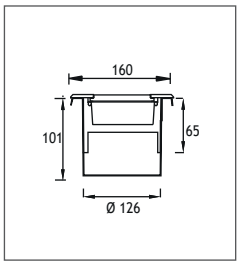
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Silicone

Symmetrical





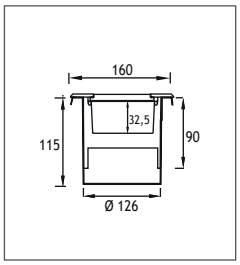


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
9W LED	2700 K	855 lm	10°,25°,40°	163024	163034
9W LED	3000 K	855 lm	10°,25°,40°	163021	163031
9W LED	4000 K	872 lm	10°,25°,40°	163022	163032
9W LED	6000 K	890 lm	10°,25°,40°	163023	163033

Symmetrical Deep





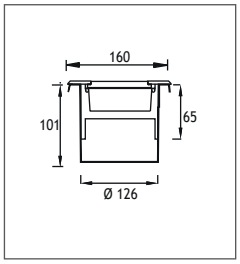


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
9W LED	2700 K	855 lm	10°,25°,40°	163124	163134
9W LED	3000 K	855 lm	10°,25°,40°	163121	163131
9W LED	4000 K	872 lm	10°,25°,40°	163122	163132
9W LED	6000 K	890 lm	10°,25°,40°	163123	163133

Symmetrical





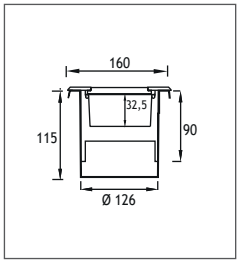


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
18W COB LED	2700 K	1710 lm	10°,20°,30°	163301	163311
18W COB LED	3000 K	1710 lm	10°,20°,30°	163302	163312
18W COB LED	4000 K	1744 lm	10°,20°,30°	163303	163313
18W COB LED	6000 K	1779 lm	10°,20°,30°	163304	163314

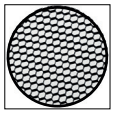
Symmetrical Deep







Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
13W COB LED	2700 K	1235 lm	24°,38°	163163	163173
13W COB LED	3000 K	1235 lm	24°,38°	163161	163171
13W COB LED	4000 K	1259 lm	24°,38°	163162	163172
13W COB LED	6000 K	1259 lm	24°,38°	163164	163174



Honeycomb
Code No: 953524

EMFA



PATNOS 5 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED (COB LED options available)

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

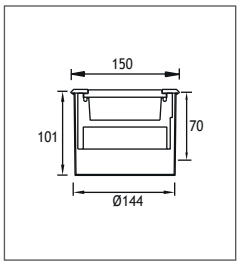
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Silicone

Symmetrical





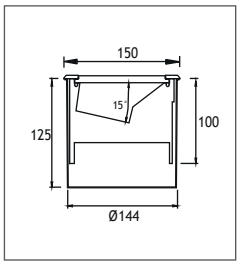


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
27W LED	2700 K	2560 lm	10°,25°,40°	164044	164054
27W LED	3000 K	2560 lm	10°,25°,40°	164041	164051
27W LED	4000 K	2610 lm	10°,25°,40°	164042	164052
27W LED	6000 K	2670 lm	10°,25°,40°	164043	164053
27W LED	RGB		25°,40°	164081	164091

15° Asymmetrical





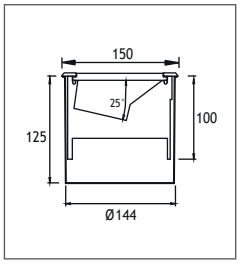


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
27W LED	2700 K	2560 lm	10°,25°,40°	164704	164714
27W LED	3000 K	2560 lm	10°,25°,40°	164701	164711
27W LED	4000 K	2610 lm	10°,25°,40°	164702	164712
27W LED	6000 K	2670 lm	10°,25°,40°	164703	164713
27W LED	RGB		25°,40°	164241	164251

25° Asymmetrical





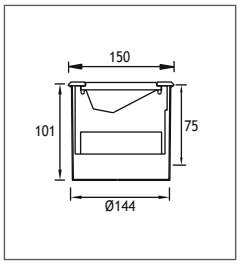


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
27W LED	2700 K	2560 lm	10°,25°,40°	164744	164754
27W LED	3000 K	2560 lm	10°,25°,40°	164741	164751
27W LED	4000 K	2610 lm	10°,25°,40°	164742	164752
27W LED	6000 K	2670 lm	10°,25°,40°	164743	164753
27W LED	RGB		25°,40°	164321	164331

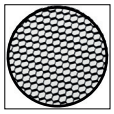
Wallwasher







Power	Kelvin	Real Lumen Output	Reflector	Code No Round	Square
13W COB LED	2700 K	1235 lm	Asymmetrical	164804	164814
13W COB LED	3000 K	1235 lm	Asymmetrical	164801	164811
13W COB LED	4000 K	1259 lm	Asymmetrical	164802	164812
13W COB LED	6000 K	1284 lm	Asymmetrical	164803	164813



Honeycomb
Code No: 953525

EMFA

PATNOS 5 RECESSED WALK OVER FIXTURES
Class I IP67 IK08





POWER LED (COB LED options available)

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

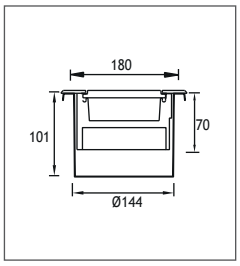
Single color LED options upon request are ;
Blue Amber Green Red

Fix to Recessing Tube with Screws

Symmetrical





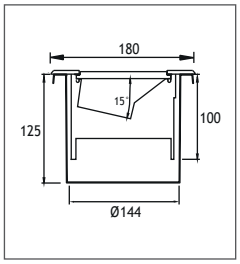


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
27W LED	2700 K	2560 lm	10°,25°,40°	164064	164074
27W LED	3000 K	2560 lm	10°,25°,40°	164061	164071
27W LED	4000 K	2610 lm	10°,25°,40°	164062	164072
27W LED	6000 K	2670 lm	10°,25°,40°	164063	164073
27W LED	RGB		25°,40°	164101	164111

15° Asymmetrical





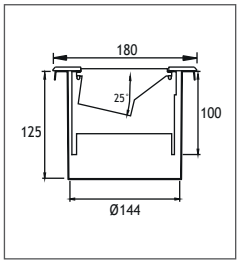


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
27W LED	2700 K	2560 lm	10°,25°,40°	164724	164734
27W LED	3000 K	2560 lm	10°,25°,40°	164721	164731
27W LED	4000 K	2610 lm	10°,25°,40°	164722	164732
27W LED	6000 K	2670 lm	10°,25°,40°	164723	164733
27W LED	RGB		25°,40°	164261	164271

25° Asymmetrical





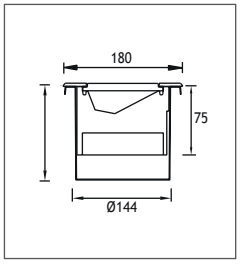


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
27W LED	2700 K	2560 lm	10°,25°,40°	164764	164774
27W LED	3000 K	2560 lm	10°,25°,40°	164761	164771
27W LED	4000 K	2610 lm	10°,25°,40°	164762	164772
27W LED	6000 K	2670 lm	10°,25°,40°	164763	164773
27W LED	RGB		25°,40°	164341	164351

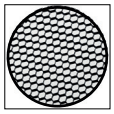
Wallwasher







Power	Kelvin	Real Lumen Output	Reflector	Code No Round	Square
13W COB LED	2700 K	1235 lm	Asymmetrical	164824	164834
13W COB LED	3000 K	1235 lm	Asymmetrical	164821	164831
13W COB LED	4000 K	1259 lm	Asymmetrical	164822	164832
13W COB LED	6000 K	1284 lm	Asymmetrical	164823	164833



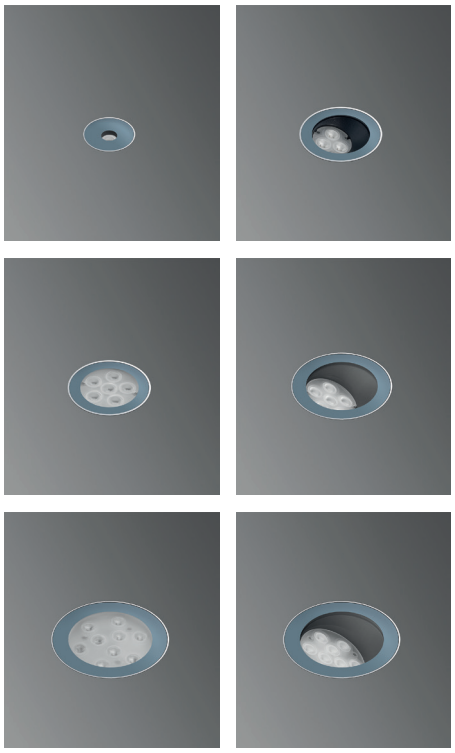
Honeycomb
Code No: 953525

EMFA

GORDION

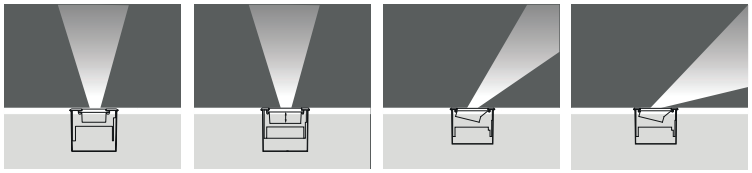
RECESSED LED FIXTURES
Load 5 kN | Class I IP67 IK08

The Gordion series is an adaption of the Belkis Recessed series without the stainless steel cover. Merely a painted glass finishes the look of the fixture. Once placed inside the stainless steel tube, the fixture can only be removed with a special tool. The Gordion series is designed to light walls, facades, columns, monuments, and trees. The fixtures are made of die cast aluminium body painted with electrostatic powder paint. Tempered glass, silicone gaskets and cast resin complete the fixture to make it IP67 IK10 and withstand rough environments. A specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired light effect.

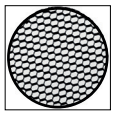


Body
Die cast aluminium
Recessing Tube
316L Stainless steel
Gaskets
Silicone
Diffusers
Tempered Glass with painted circumference

"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



Symmetrical | Symmetrical Deep | 15° Asymmetrical | 25° Asymmetrical



Honeycomb

LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

GORDION

RECESSED LED FIXTURES
Load 5 kN | Class I IP67 IK08





POWER LED (COB LED options available)

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass **8**mm (Frosted Glass on request)

CRI : >80 or >90

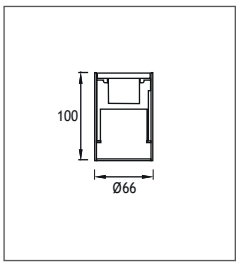
Cable : Potted 1 m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

Gordion 1
Symmetrical **7° Asymmetrical**





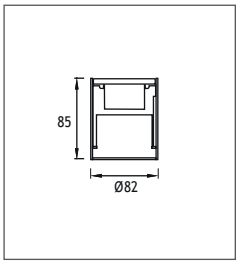


Power	Kelvin	Real Lumen Output	Lens	Code No Symmetrical	Code No 7° Asymmetrical
1W LED	2700 K	95 lm	10°,25°,40°	170004	170014
1W LED	3000 K	95 lm	10°,25°,40°	170001	170011
1W LED	4000 K	97 lm	10°,25°,40°	170002	170012
1W LED	6000 K	99 lm	10°,25°,40°	170003	170013

Gordion 2
Symmetrical **7° Asymmetrical**





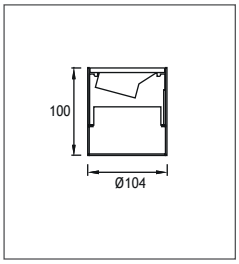


Power	Kelvin	Real Lumen Output	Lens	Code No Symmetrical	Code No 7° Asymmetrical
3W LED	2700 K	285 lm	10°,25°,40°	170104	170114
3W LED	3000 K	285 lm	10°,25°,40°	170101	170111
3W LED	4000 K	290 lm	10°,25°,40°	170102	170112
3W LED	6000 K	296 lm	10°,25°,40°	170103	170113

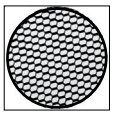
Gordion 2
15° Asymmetrical **25° Asymmetrical**







Power	Kelvin	Real Lumen Output	Lens	Code No Symmetrical	Code No 7° Asymmetrical
9W LED	2700 K	855 lm	10°,25°,40°	170144	170154
9W LED	3000 K	855 lm	10°,25°,40°	170141	170151
9W LED	4000 K	872 lm	10°,25°,40°	170142	170152
9W LED	6000 K	890 lm	10°,25°,40°	170143	170153



Honeycomb
Gordion 1: 953521
Gordion 2: 953522

GORDION

RECESSED LED FIXTURES
Load 5 kN | Class I IP67 IK08





POWER LED (COB LED options available)

Voltage : 240V A.C with integrated driver (12-24 VDC on request)

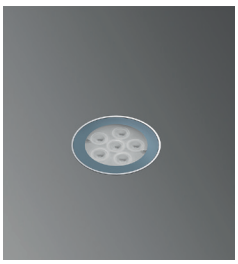
Diffuser : Clear Glass **8**mm (Frosted Glass on request)

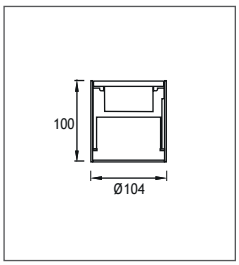
CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

Gordion 3
Symmetrical





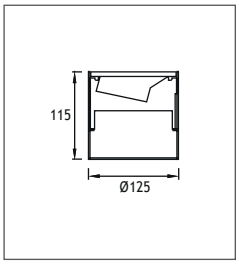
Power	Kelvin	Real Lumen Output	Lens	Code No Symmetrical
6W LED	2700 K	570 lm	10°,25°,40°	170204
6W LED	3000 K	570 lm	10°,25°,40°	170201
6W LED	4000 K	581 lm	10°,25°,40°	170202
6W LED	6000 K	593 lm	10°,25°,40°	170203

Gordion 3
15° Asymmetrical



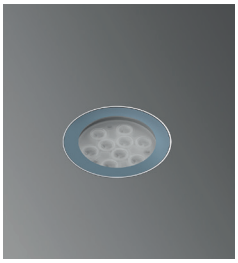
25° Asymmetrical

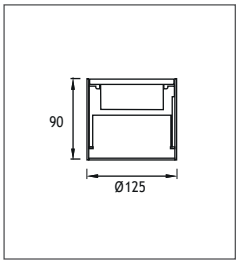




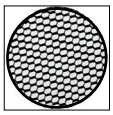
Power	Kelvin	Real Lumen Output	Lens	Code No 15° Asymmetrical	Code No 25° Asymmetrical
6W LED	2700 K	570 lm	10°,25°,40°	170214	170224
6W LED	3000 K	570 lm	10°,25°,40°	170211	170221
6W LED	4000 K	581 lm	10°,25°,40°	170212	170222
6W LED	6000 K	593 lm	10°,25°,40°	170213	170223

Gordion 4
Symmetrical





Power	Kelvin	Real Lumen Output	Lens	Code No Symmetrical
9W LED	2700 K	855 lm	10°,25°,40°	170304
9W LED	3000 K	855 lm	10°,25°,40°	170301
9W LED	4000 K	872 lm	10°,25°,40°	170302
9W LED	6000 K	890 lm	10°,25°,40°	170303

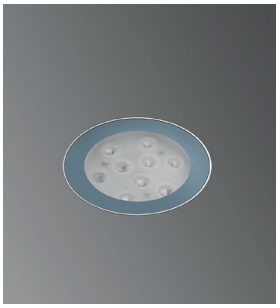


Honeycomb
Gordion 3: 953523
Gordion 4: 953524

EMFA

GORDION

RECESSED LED FIXTURES
Load 5 kN | Class I IP67 IK08



POWER LED (COB LED options available)

Voltage : 240V A.C with integrated driver
(12-24 VDC on request)

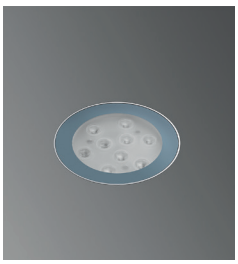
Diffuser : Clear Glass **8**mm (Frosted Glass on request)

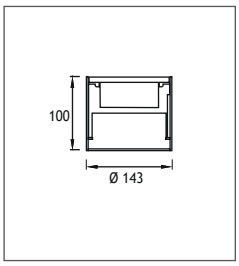
CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

Gordion 5
Symmetrical



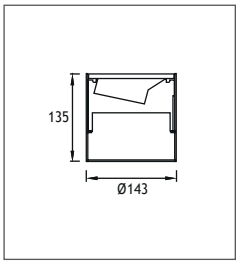


Power	Kelvin	Real Lumen Output	Lens	Code No Symmetrical
9W LED	2700 K	95 lm	10°,25°,40°	170404
9W LED	3000 K	95 lm	10°,25°,40°	170401
9W LED	4000 K	97 lm	10°,25°,40°	170402
9W LED	6000 K	99 lm	10°,25°,40°	170403

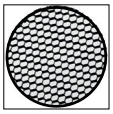
Gordion 5
15° Asymmetrical **25° Asymmetrical**







Power	Kelvin	Real Lumen Output	Lens	Code No 15° Asymmetrical	25° Asymmetrical
9W LED	2700 K	855 lm	10°,25°,40°	170414	170424
9W LED	3000 K	855 lm	10°,25°,40°	170411	170421
9W LED	4000 K	872 lm	10°,25°,40°	170412	170422
9W LED	6000 K	890 lm	10°,25°,40°	170413	170423



Honeycomb
Code No: 953525

Wall Recessed



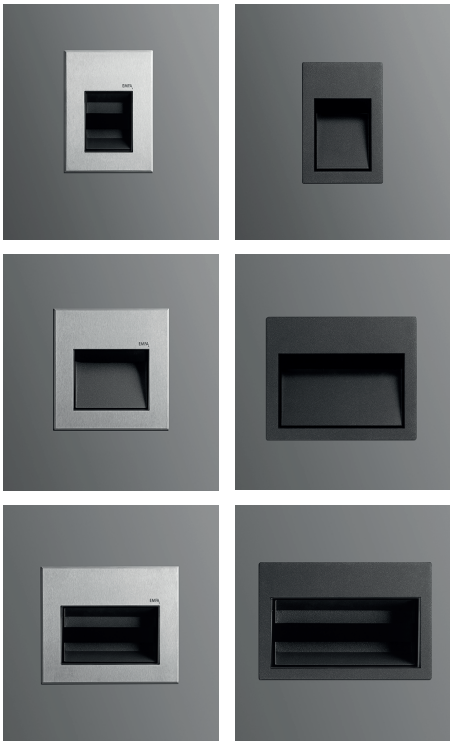
MILET ANI

WALL RECESSED
Class I IP55 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

EMFA's Ani wall recessed series is specially designed to deliver low-glare lighting to facades, walkways, pathways and driveways with minimal installation depth and narrow trim. The fixture is made of a combination of 316L stainless steel and die cast aluminium. The tilted design reduces the glare of the LED's The Linear LEDs with special lenses gives excellent wallwashing effect. An anti-slip glass is available upon request.



Cover
316L Stainless steel or Aluminium
Body
Die cast aluminium
Gaskets
Silicone
Diffusers
4 mm Tempered Glass
Screws
316L Stainless Steel
Glands
PG 11

"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, and available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

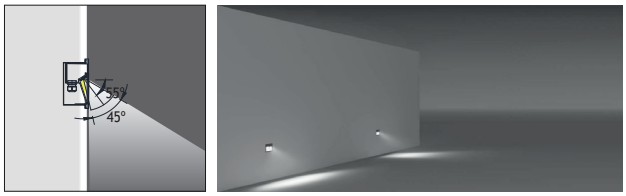
Symmetrical

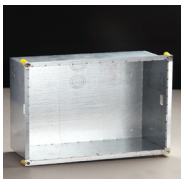




Asymmetrical







Galvanized Recessing Box



end of the code number "s" add for Screw mounting option for

LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Asym. Glass



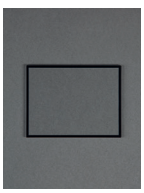
Trenched Glass



Milky Glass



Clear Glass



EMFA

MILET ANI

WALL RECESSED
Class I IP67 IK08



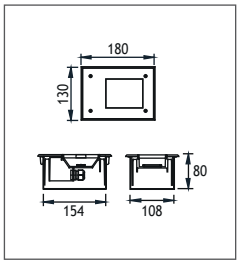


Led : Linear LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 8mm Tempered Glass
Beam Angle : 45° / 60° / 90°
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

ANI 1





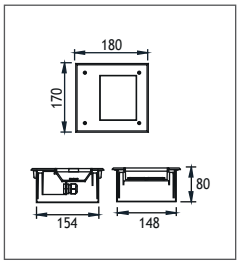


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
6W	2700 K	570 lm	456003	456503
12W	2700 K	1140 lm	456013	456513
6W	3000 K	570 lm	456001	456501
12W	3000 K	1140 lm	456011	456511
6W	4000 K	690 lm	456002	456502
12W	4000 K	1195 lm	456012	456512

ANI 2





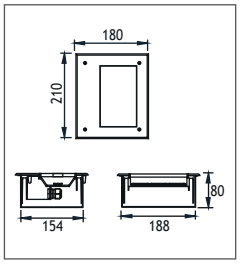


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
12W	2700 K	1140 lm	456103	456603
24W	2700 K	2280 lm	456113	456613
12W	3000 K	1140 lm	456101	456601
24W	3000 K	2280 lm	456111	456611
12W	4000 K	1254 lm	456102	456602
24W	4000 K	2320 lm	456112	456612

ANI 3





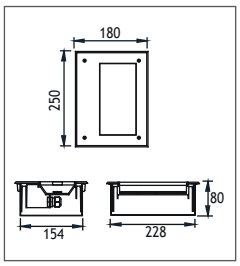


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
18W	2700 K	1710 lm	456203	456703
36W	2700 K	3420 lm	456213	456713
18W	3000 K	1710 lm	456201	456701
36W	3000 K	3420 lm	456211	456711
18W	4000 K	1790 lm	456202	456702
36W	4000 K	3520 lm	456212	456712

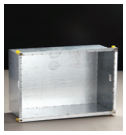
ANI 4







Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
24W	2700 K	2280 lm	456303	456803
36W	2700 K	3420 lm	456313	456813
24W	3000 K	2280 lm	456301	456801
36W	3000 K	3420 lm	456311	456811
24W	4000 K	2320 lm	456302	456802
36W	4000 K	3520 lm	456312	456812



Galvanized Recessing Box

EMFA



MILET ANI

WALL RECESSED
Class I IP67 IK08



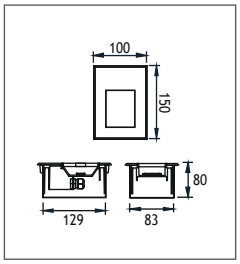


Led : Linear LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 8mm Tempered Glass
Beam Angle : 45° / 60° / 90°
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

ANI 1





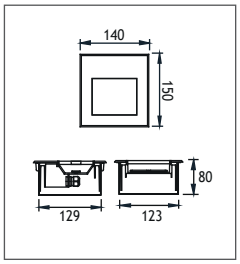


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
6W	2700 K	570 lm	455003	455503
12W	2700 K	1140 lm	455013	455513
6W	3000 K	570 lm	455001	455501
12W	3000 K	1140 lm	455011	455511
6W	4000 K	690 lm	455002	455502
12W	4000 K	1195 lm	455012	455512

ANI 2





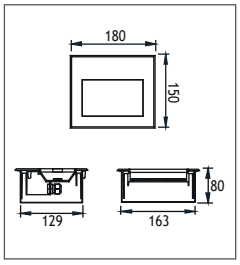


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
12W	2700 K	1140 lm	455103	455603
24W	2700 K	2280 lm	455113	455613
12W	3000 K	1140 lm	455101	455601
24W	3000 K	2280 lm	455111	455611
12W	4000 K	1254 lm	455102	455602
24W	4000 K	2320 lm	455112	455612

ANI 3





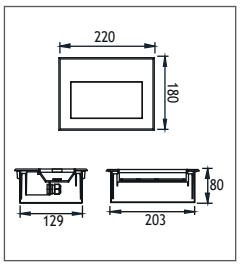


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
18W	2700 K	1710 lm	455203	455703
36W	2700 K	3420 lm	455213	455713
18W	3000 K	1710 lm	455201	455701
36W	3000 K	3420 lm	455211	455711
18W	4000 K	1790 lm	455202	455702
36W	4000 K	3520 lm	455212	455712

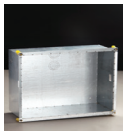
ANI 4







Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
24W	2700 K	2280 lm	455303	455803
36W	2700 K	3420 lm	455313	455813
24W	3000 K	2280 lm	455301	455801
36W	3000 K	3420 lm	455311	455811
24W	4000 K	2320 lm	455302	455802
36W	4000 K	3520 lm	455312	455812

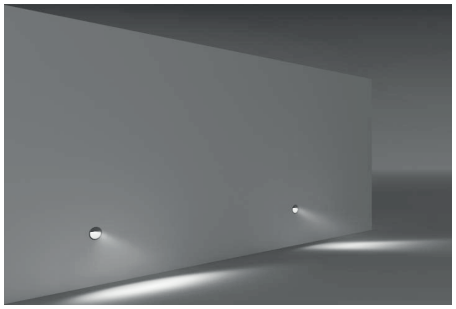


Galvanized Recessing Box

SANTOS 6 WALL RECESSED FIXTURES
Class I IP67 IK10

EMFA's Santos 6 Wall Recessed Fixture is specially designed to deliver glare-free lighting in open areas and pathways. The combination of the ribbed glass, which creates a horizontal elliptical light output and the lamp cover, which hides the source of light, allows for an unobtrusive comfortable lighting effect. The fixture is made of a combination of 316L stainless steel and aluminium. The narrow depth of 159 mm allows the fixture to be installed in most walls. The electronic ballast is housed in the thermally separated base of the fixture.





Cover
316L Stainless steel
Body
Die cast aluminium or aluminium profile with
die cast aluminium bottom and connection box.
Gaskets
Silicone
Diffusers
5 mm ribbed tempered Glass
Screws
316L Stainless steel
Glands
2 x PG 13.5
Recessing Tube
Polyamide 6

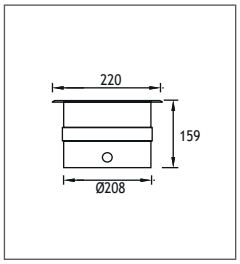
Voltage : 240V A.C with integrated driver
(24V AC or DC on request)
Diffuser : 12 mm Clear Glass (Frosted Glass on request)
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F



Adjustable







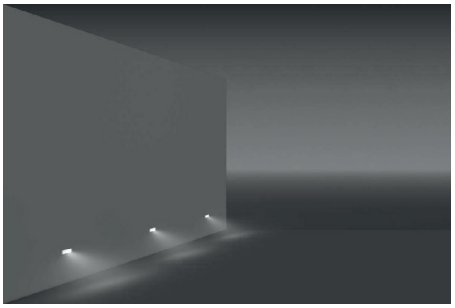
Power	Kelvin	Real Lumen Output	Lens	Code No Symmetrical	Asymmetrical
9W	2700 K	855 lm	10°,23°,36°	552301	552401
18W	2700 K	1710 lm	10°,23°,36°	552311	552411
9W	3000 K	855 lm	10°,23°,36°	552302	552402
18W	3000 K	1710 lm	10°,23°,36°	552121	552221
9W	4000 K	872 lm	10°,23°,36°	552303	552403
18W	4000 K	1744 lm	10°,23°,36°	552122	552222

MIRA

WALL RECESSED FIXTURE
Class I IP67 IK10

The Mira series consists of a range of LED and fluorescent sources to deliver the desired light effect to facades, columns, bridges, monuments, and signs. The series is made of a die cast aluminium body with electrostatic powder paint finished with a 316L stainless steel cover. The recessed versions are for drive over up to 20 kN including a stainless steel recessing box. The surface mounted versions come with a heavy-duty 316L stainless steel bracket. The fixtures come with integrated electronic ballasts and a specially developed potted power cable to effectively bond with the cast resin and stop any water ingress. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.





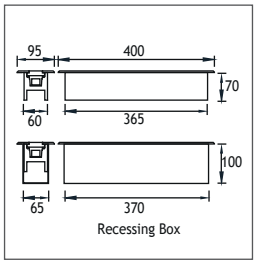
Cover
316L Stainless steel
Body
Die cast aluminium
Diffusers
12 mm Tempered Glass
Gaskets
Silicone
Screws
316L Stainless steel
Recessing Box
Stainless steel



Asymmetrical

Led : Power LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 12 mm Tempered Glass
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F





Power	Kelvin	Real Lumen Output	Lens	Code No
12W	2700 K	1140 lm	10°,25°,40°	430374
12W	3000 K	1140 lm	10°,25°,40°	430371
12W	4000 K	1160 lm	10°,25°,40°	430372
12W	6000 K	1185 lm	10°,25°,40°	430373
27W	RGB		25°,40°	430381



BELKIS

WALL RECESSED FIXTURE
Class II IP65 IK08



COB LED

Voltage : 240 VAC with integrated driver
(12-24 VDC on request)

Diffuser : Clear Glass 8mm (Frosted Glass on request)

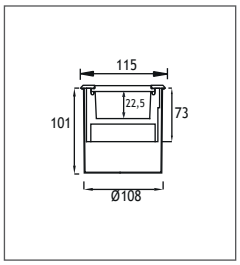
CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

Belkıs 3 Fix to Recessing Tube with Silicone





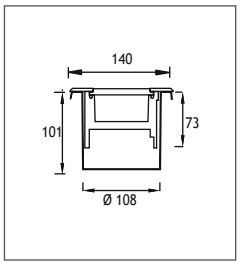


Power	Kelvin	Real Lumen Output	Code No Round	Code No Square
7W LED	2700 K	665 lm	423263	423283
7W LED	3000 K	665 lm	423261	423281
7W LED	4000 K	678 lm	423262	423282
7W LED	6000 K	690 lm	423264	423284

Belkıs 3 Fix to Recessing Tube with Screws

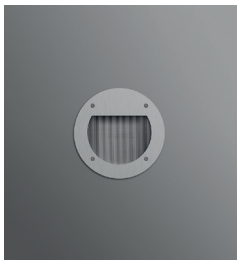




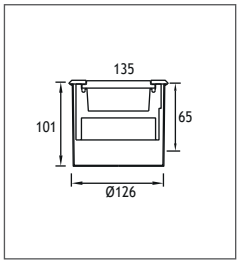


Power	Kelvin	Real Lumen Output	Code No Round	Code No Square
7W LED	2700 K	665 lm	423273	423293
7W LED	3000 K	665 lm	423271	423291
7W LED	4000 K	678 lm	423272	423292
7W LED	6000 K	690 lm	423274	423294

Belkıs 4 Fix to Recessing Tube with Silicone





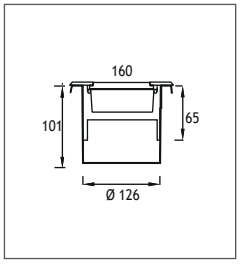


Power	Kelvin	Real Lumen Output	Code No Round	Code No Square
11W LED	2700 K	1045 lm	423903	423923
11W LED	3000 K	1045 lm	423901	423921
11W LED	4000 K	1065 lm	423902	423922
11W LED	6000 K	1087 lm	423904	423924

Belkıs 4 Fix to Recessing Tube with Screws







Power	Kelvin	Real Lumen Output	Code No Round	Code No Square
11W LED	2700 K	1045 lm	423913	423933
11W LED	3000 K	1045 lm	423911	423931
11W LED	4000 K	1065 lm	423912	423932
11W LED	6000 K	1087 lm	423914	423934

MILET

WALL RECESSED FIXTURES
IP65 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Cover
Die cast aluminium / Inox (Stainless steel)
Paint
Black or grey electrostatic powder
Body
Die cast aluminium
Recessing Box
Polycarbonate
Glands
1 X PG 9
Gaskets
Silicone
Diffusers
4 mm Tempered Glass

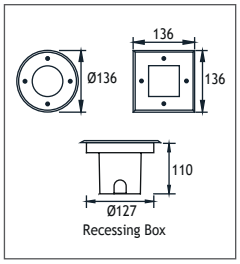




Symmetrical Inox





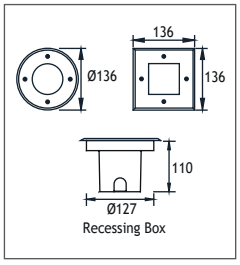


Power	Lampholder	Reflector	Code No Round	Square
35W HALOGEN	Gu5,3 12V	10°,38°	308111	306111
40W HALOGEN	G 9		308121	306121
50W HALOGEN	Gu10	10°,38°	308131	306131

Symmetrical Aluminium





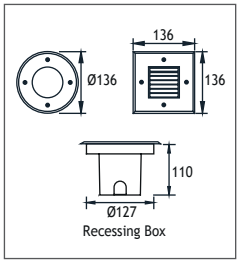


Power	Lampholder	Reflector	Code No Round	Square
35W HALOGEN	Gu5,3 12V	10°,38°	304111	302111
40W HALOGEN	G 9		304121	302121
50W HALOGEN	Gu10	10°,38°	304131	302131

Asymmetrical Inox





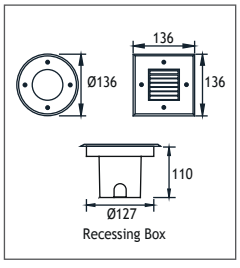


Power	Lampholder	Reflector	Code No Round	Square
35W HALOGEN	Gu5,3 12V	10°,38°	303111	305111
40W HALOGEN	G 9		303121	305121
50W HALOGEN	Gu10	10°,38°	303131	305131

Asymmetrical Aluminium







Power	Lampholder	Reflector	Code No Round	Square
35W HALOGEN	Gu5,3 12V	10°,38°	307111	301111
40W HALOGEN	G 9		307121	301121
50W HALOGEN	Gu10	10°,38°	307131	301131

EMFA

BELKIS MINI

WALL RECESSED FIXTURES
Class I IP65 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Cover
316L Stainless steel or Aluminium
Body
Die cast aluminium
Recessing Box
Aluminium
Gaskets
Silicone
Diffusers
Tempered Glass
Screws
316L Stainless steel

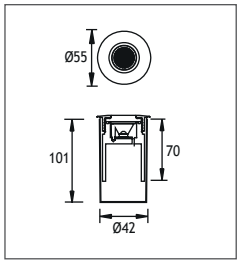
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Clear Glass 4mm (Frosted Glass on request)
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red



Symmetrical

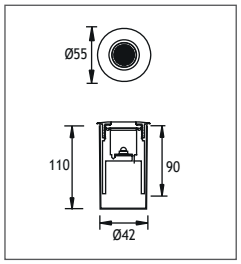




Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	309001
1W LED	3000 K	95 lm	10°,25°,40°	309002
1W LED	4000 K	97 lm	10°,25°,40°	309003
1W LED	6000 K	99 lm	10°,25°,40°	309004
3W LED	2700 K	380 lm	10°,25°,40°	309011
3W LED	3000 K	380 lm	10°,25°,40°	309012
3W LED	4000 K	387 lm	10°,25°,40°	309013
3W LED	6000 K	395 lm	10°,25°,40°	309014

Symmetrical Deep

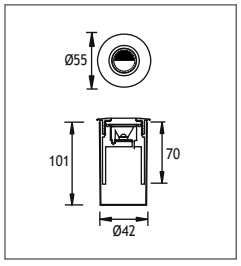




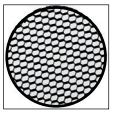
Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	309101
1W LED	3000 K	95 lm	10°,25°,40°	309102
1W LED	4000 K	97 lm	10°,25°,40°	309103
1W LED	6000 K	99 lm	10°,25°,40°	309104
3W LED	2700 K	380 lm	10°,25°,40°	309111
3W LED	3000 K	380 lm	10°,25°,40°	309112
3W LED	4000 K	387 lm	10°,25°,40°	309113
3W LED	6000 K	395 lm	10°,25°,40°	309114

Asymmetrical





Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	309201
1W LED	3000 K	95 lm	10°,25°,40°	309202
1W LED	4000 K	97 lm	10°,25°,40°	309203
1W LED	6000 K	99 lm	10°,25°,40°	309204
3W LED	2700 K	380 lm	10°,25°,40°	309211
3W LED	3000 K	380 lm	10°,25°,40°	309212
3W LED	4000 K	387 lm	10°,25°,40°	309213
3W LED	6000 K	395 lm	10°,25°,40°	309214



Honeycomb
Code No: 953714

EMFA

BELKIS 1 LL

WALL RECESSED FIXTURES
IP65 IK08

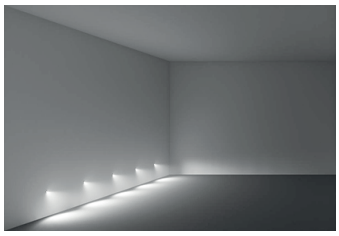
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Body
Die cast aluminium
Paint
Electrostatic powder
Diffusers
Tempered Glass
Gaskets
Silicone



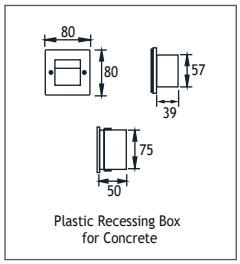




Led : Linear LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 4 mm Tempered Clear Glass or Milky Glass
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

LLA Asymmetrical

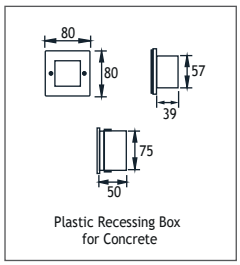




Power	Kelvin	Real Lumen Output	Code No
3W	2700 K	285 lm	424103
3W	3000 K	285 lm	424101
3W	4000 K	290 lm	424102
3W	6000 K	296 lm	424104

LLS Asymmetrical

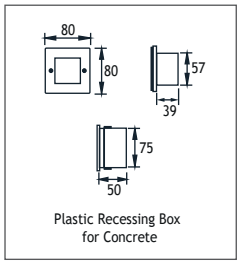




Power	Kelvin	Real Lumen Output	Code No
3W	2700 K	285 lm	424113
3W	3000 K	285 lm	424111
3W	4000 K	290 lm	424112
3W	6000 K	296 lm	424114

LLS Symmetrical





Power	Kelvin	Real Lumen Output	Code No
3W	2700 K	285 lm	424123
3W	3000 K	285 lm	424121
3W	4000 K	290 lm	424122
3W	6000 K	296 lm	424124

EMFA



SATURN

WALL RECESSED FIXTURES
IP65 IK08

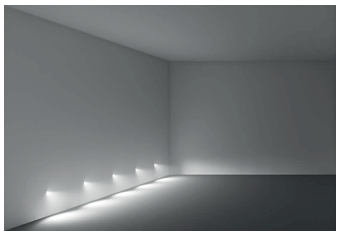
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Body
Die cast aluminium
Paint
Electrostatic powder
Diffusers
Tempered Glass
Gaskets
Silicone



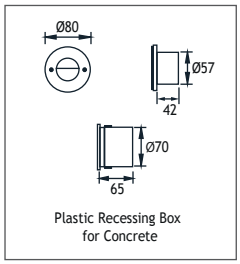




Led : COB LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 4 mm Tempered Clear Glass or Frosted Glass
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

Asymmetrical

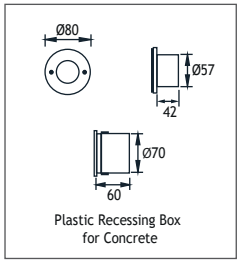




Power	Kelvin	Real Lumen Output	Code No
3W	2700 K	285 lm	527003
3W	3000 K	285 lm	527001
3W	4000 K	290 lm	527002
3W	6000 K	296 lm	527004

Symmetrical

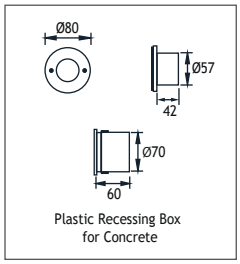




Power	Kelvin	Real Lumen Output	Code No
3W	2700 K	285 lm	527103
3W	3000 K	285 lm	527101
3W	4000 K	290 lm	527102
3W	6000 K	296 lm	527104

Symmetrical





Power	Kelvin	Real Lumen Output	Code No
3W	2700 K	285 lm	527203
3W	3000 K	285 lm	527201
3W	4000 K	290 lm	527202
3W	6000 K	296 lm	527204

EMFA



BERGAMA

WALL RECESSED FIXTURES
IP65 IK08

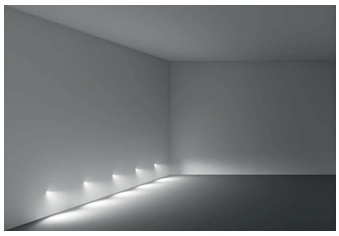
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Body
Steel or Inox (Stainless Steel)
Paint
Electrostatic powder
Reflector
Anodized aluminium
Recessing Box
Galvanized steel
(only for in wall series)
Diffuser
4 mm Clear Glass



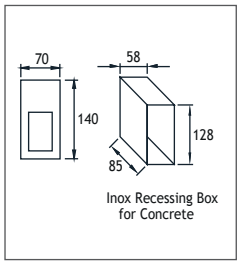




Led : Linear LEDs
Voltage : 240 VAC with integrated driver
(12-24 VDC on request)
Diffuser : 4 mm Tempered Clear Glass or Frosted Glass
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

140x70

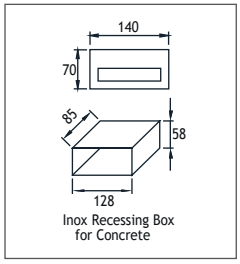




Power	Kelvin	Real Lumen Output	Code No Steel	Code No Inox
1W	2700 K	95 lm	349002	349012
1W	3000 K	95 lm	349001	349011
1W	4000 K	97 lm	349003	349013
1W	6000 K	99 lm	349004	349014

70x140





Power	Kelvin	Real Lumen Output	Code No Steel	Code No Inox
3W	2700 K	285 lm	349101	349111
3W	3000 K	285 lm	349102	349112
3W	4000 K	290 lm	349103	349113
3W	6000 K	296 lm	349104	349114

EMFA

PYRAMID

WALL RECESSED FIXTURES
IP65 IK08

Available in any of these RAL colors

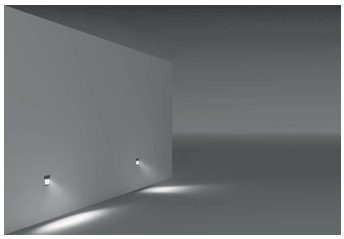
7004 7016 9005 9016 6002 1015

Cover & Body
Glass reinforsed polyester
Screws
Inox
Gasket
Silicone
Glass
Tempered
Recessing Box
Galvanized steel



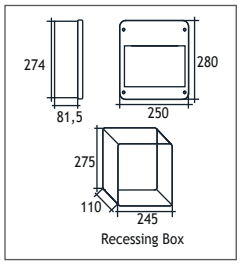


Voltage : 240 VAC with integrated driver (24V AC or DC on request)
Cable : Potted 1 m 3x1 H03 VV-F



Symmetrical

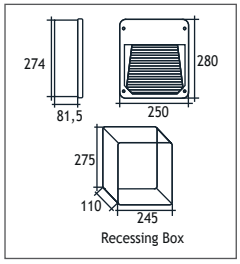




Power	Lampholder	Kelvin	Code No
6W	LED	2700 K	502001
6W	LED	3000 K	502002
6W	LED	4000 K	502003
6W	LED	6000 K	502004
2x 18W FLUO.	G24 d-2		502111
2x 26W FLUO.	G24 d-3		502121

Asymmetrical





Power	Lampholder	Kelvin	Code No
6W	LED	2700 K	501001
6W	LED	3000 K	501002
6W	LED	4000 K	501003
6W	LED	6000 K	501004
2x 18W FLUO.	G24 d-2		501011
2x 26W FLUO.	G24 d-3		501121

SLIM PYRAMID

WALL RECESSED FIXTURES
IP65 IK08

Available in any of these RAL colors

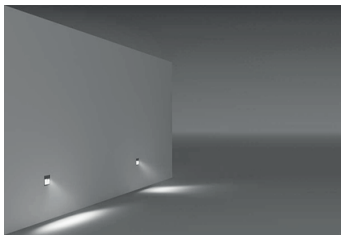


Cover & Body
Glass reinforsed polyester
Screws
Inox
Gasket
Silicone
Glass
Tempered
Recessing Box
Galvanized steel



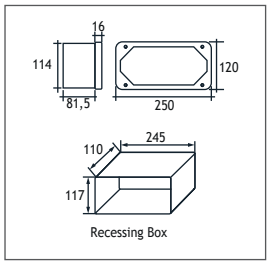


Voltage : 240 VAC with integrated driver (24V AC or DC on request)
Cable : Potted 1 m 3x1 H03 VV-F



Symmetrical

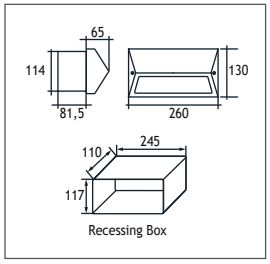




Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	503001
9W	LED	3000 K	503002
9W	LED	4000 K	503003
9W	LED	6000 K	503004
1x 18W FLUO.	G24 d-2		503011
1x 26W FLUO.	G24 d-3		503021

Asymmetrical

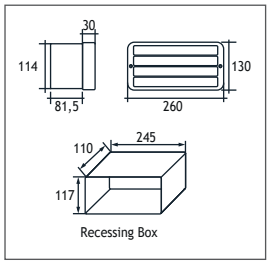




Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	503101
9W	LED	3000 K	503102
9W	LED	4000 K	503103
9W	LED	6000 K	503104
1x 18W FLUO.	G24 d-2		503111
1x 26W FLUO.	G24 d-3		503121

Asymmetrical





Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	503201
9W	LED	3000 K	503202
9W	LED	4000 K	503203
9W	LED	6000 K	503204
1x 18W FLUO.	G24 d-2		503211
1x 26W FLUO.	G24 d-3		503221

EMFA

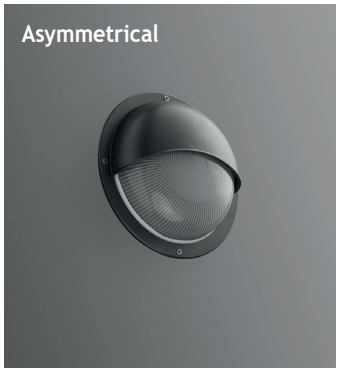
SIDE WALL RECESSED FIXTURES IP65 IK08

Available in any of these RAL colors

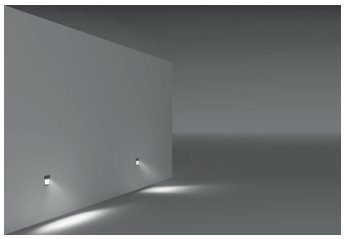
7004 7016 9005 9016 6002 1015

Body
Die Cast Aluminium
Cover
Die Cast Aluminium
Paint
Electrostatic powder paint
Diffuser
Polycarbonate



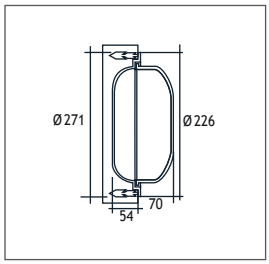


Voltage : 240 VAC with integrated driver (24V AC or DC on request)
Cable : Potted 1 m 3x1 H03 VV-F



Side 4

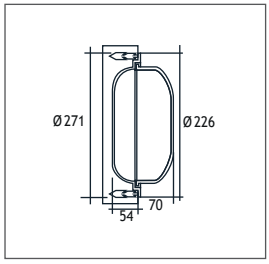




Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	510001
9W	LED	3000 K	510002
9W	LED	4000 K	510003
9W	LED	6000 K	510004
75W HALOGEN	E27		510201
1x 26W FLUO.	G24 d-3		510221

Side 5

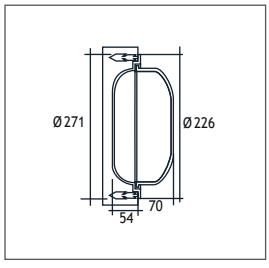




Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	511001
9W	LED	3000 K	511002
9W	LED	4000 K	511003
9W	LED	6000 K	511004
75W HALOGEN	E27		511201
1x 26W FLUO.	G24 d-3		511221

Side 6





Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	512001
9W	LED	3000 K	512002
9W	LED	4000 K	512003
9W	LED	6000 K	512004
75W HALOGEN	E27		512201
1x 26W FLUO.	G24 d-3		512221

PERGE

WALL RECESSED FIXTURES
IP65 IK08

Available in any of these RAL colors

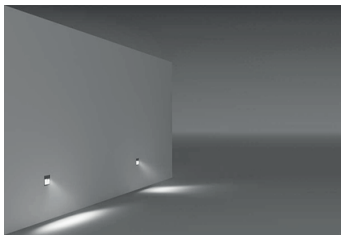


Body
Die Cast Aluminium
Cover
Die Cast Aluminium
Paint
Electrostatic powder paint
Diffuser
Polycarbonate



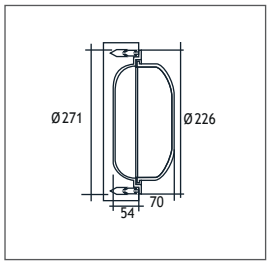


Voltage : 240 VAC with integrated driver (24V AC or DC on request)
Cable : Potted 1 m 3x1 H03 VV-F



Perge 4

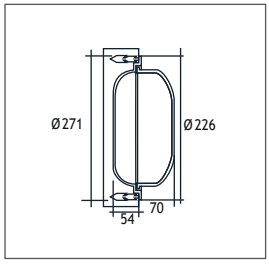




Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	520001
9W	LED	3000 K	520002
9W	LED	4000 K	520003
9W	LED	6000 K	520004
75W HALOGEN	E27		520201
1x 26W FLUO.	G24 d-3		520221

Perge 5

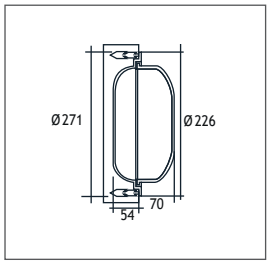




Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	521001
9W	LED	3000 K	521002
9W	LED	4000 K	521003
9W	LED	6000 K	521004
75W HALOGEN	E27		521201
1x 26W FLUO.	G24 d-3		521221

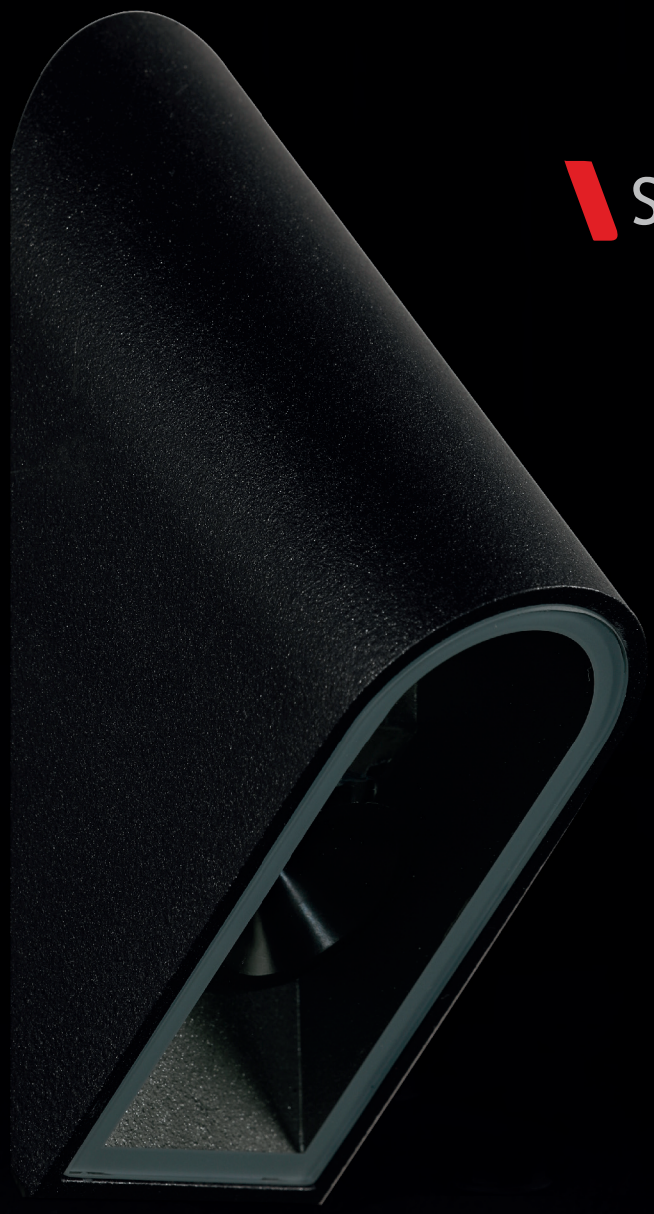
Perge 6





Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	522001
9W	LED	3000 K	522002
9W	LED	4000 K	522003
9W	LED	6000 K	522004
75W HALOGEN	E27		522201
1x 26W FLUO.	G24 d-3		522221

EMFA



Surface Mounted

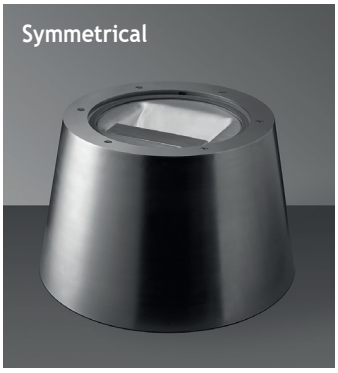
KNIDOS

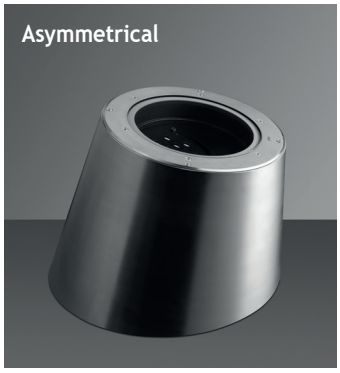
SURFACE MOUNTED FIXTURES
IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Cover
316L Stainless steel
Outer Body
316L Stainless steel
Inner Body
Glass reinforced polyester
Diffusers
12 mm Tempered Glass
Gaskets
Silicone
Screws
316L Stainless Steel



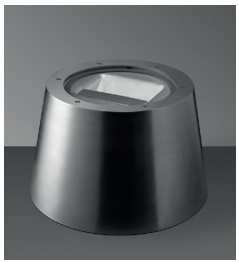


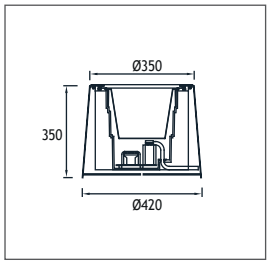
Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Diffuser : 12 mm Clear Glass (Frosted Glass on request)
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red



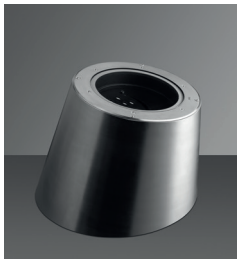
Symmetrical

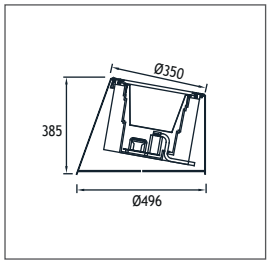




Power	Kelvin	Real Lumen Output	Lens	Code No
9W	2700 K	810 lm	10°,25°,40°	257244
18W	2700 K	1620 lm	10°,25°,40°	257251
9W	3000 K	810 lm	10°,25°,40°	257241
18W	3000 K	1620 lm	10°,25°,40°	257252
9W	4000 K	891 lm	10°,25°,40°	257242
18W	4000 K	1782 lm	10°,25°,40°	257253
9W	6000 K	898 lm	10°,25°,40°	257243
18W	6000 K	1795 lm	10°,25°,40°	257254
CDMR-111 35W		Gx8,5	10°,40°	257211
CDMR-111 70W		Gx8,5	10°,40°	257231

Asymmetrical





Power	Kelvin	Real Lumen Output	Lens	Code No
9W	2700 K	810 lm	10°,25°,40°	256304
18W	2700 K	1620 lm	10°,25°,40°	256331
9W	3000 K	810 lm	10°,25°,40°	256301
18W	3000 K	1620 lm	10°,25°,40°	256332
9W	4000 K	891 lm	10°,25°,40°	256302
18W	4000 K	1782 lm	10°,25°,40°	256333
9W	6000 K	898 lm	10°,25°,40°	256303
18W	6000 K	1795 lm	10°,25°,40°	256334
CDMR-111 35W		Gx8,5	10°,40°	256311
CDMR-111 70W		Gx8,5	10°,40°	256321

EMFA

NEPTUN 3

SURFACE MOUNTED FIXTURES
IP65 IK10

Available in any of these RAL colors

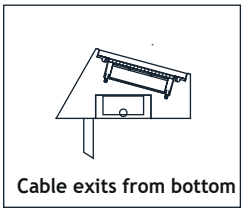
7004 7016 9005 9016 6002 1015

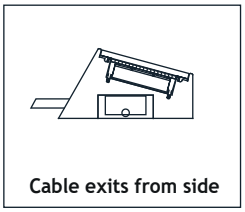
The Neptun Surface Mounted Uplighter, completely made of aluminium steel is ideal for areas where corrosive agents such as salt water or fertilizers would harm aluminium fixtures. The fixture can be mounted without harm to any surface and therefore is ideal for protected and historical sites where mounting recessed fixtures is not permitted.



Body
Die cast aluminium
Diffusers
4 mm Tempered Glass
Paint
Electrostatic powder
Gaskets
Silicone
Screws
316L Stainless steel

Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Diffuser : 12 mm Clear Glass (Frosted Glass on request)
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

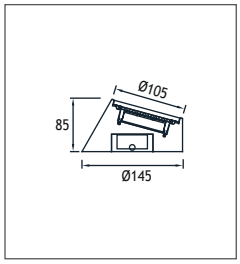

Cable exits from bottom


Cable exits from side

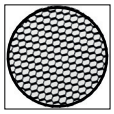
Single color LED options upon request are ;
Blue Amber Green Red

Asymmetrical





Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	259005
6W LED	3000 K	570 lm	10°,25°,40°	259001
6W LED	4000 K	580 lm	10°,25°,40°	259002
6W LED	6000 K	592 lm	10°,25°,40°	259003
18W LED	RGB		25°,40°	259004


Honeycomb
Code No: 953523

BELKIS 5 SURFACE MOUNTED FIXTURES IP67 IK10

The Belkis Surface Mounted Uplighter, completely made of 316L stainless steel is ideal for areas where corrosive agents such as salt water or fertilizers would harm aluminium fixtures. The fixture can be mounted without harm to any surface and therefore is ideal for protected and historical sites where mounting recessed fixtures is not permitted.

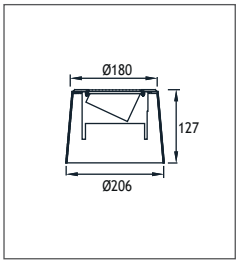


Cover
316L Stainless steel
Outer Body
316L Stainless steel
Inner Body
Die cast aluminium
Diffusers
8 mm Tempered Glass
Gaskets
Silicone
Screws
316L Stainless Steel

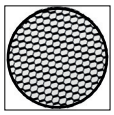
Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Diffuser : 12 mm Clear Glass (Frosted Glass on request)
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

Asymmetrical





Power	Kelvin	Real Lumen Output	Lens	Code No
13W COB LED	2700 K	1235 lm	Asymmetrical	333004
13W COB LED	3000 K	1235 lm	Asymmetrical	333001
13W COB LED	4000 K	1259 lm	Asymmetrical	333002
13W COB LED	6000 K	1284 lm	Asymmetrical	333003



Honeycomb
Code No: 953525

TEOS

SURFACE DRIVE OVER FIXTURES
Load 50 kN | Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

EMFA's Teos 3 Surface Drive Over LED Fixture is specially designed to deliver high output LED light to ground surfaces of roads, carparks and pathways. This heavy duty fixture is designed to withstand the weight of large vehicles. Its robust construction allows for a maximum static load of 5000kg. The body and head of the fixture are made of die cast aluminium, while the recessing tube is made of steel to withstand the repeated impact of driving vehicles' tires. The high power LEDs are positioned and angled to provide maximum light output. The electronic LED driver is housed in the base of the fixture. The fixture comes with 2 x PG13.5 cable glands and 0.5m cable.

Cover
Die cast aluminium
Body
Die cast aluminium
Gaskets
Silicone
Diffusers
Polycarbonate
Screws
316L Stainless steel
Glands
2 x PG 13.5
Cable
0.5m 3x0,75 mm H05VV-F

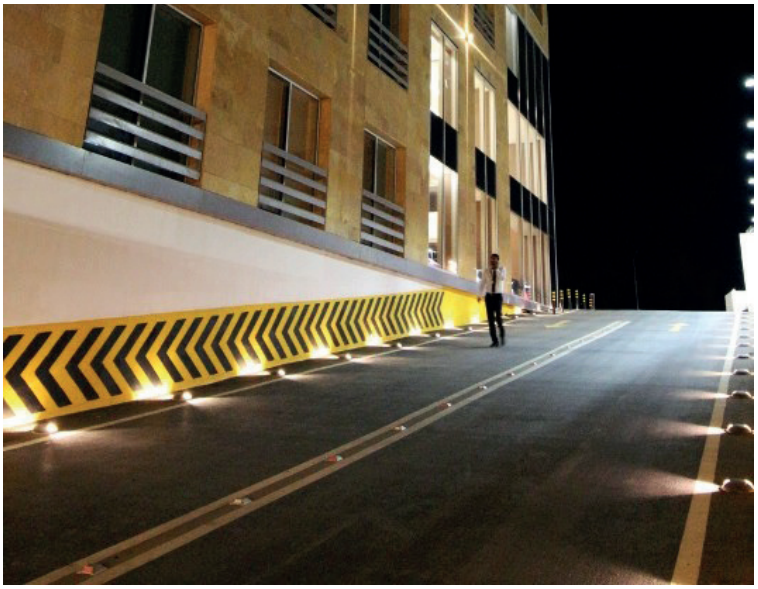












LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

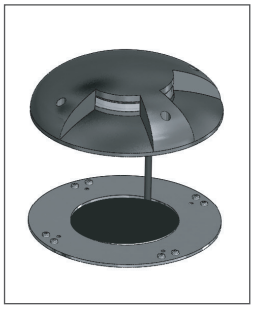
TEOS 3

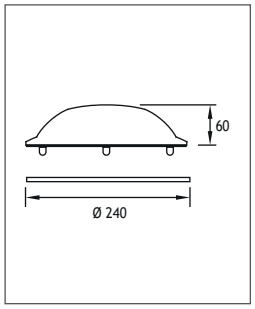
SURFACE DRIVE OVER FIXTURES
Load 50 kN | Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

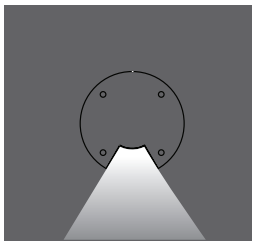






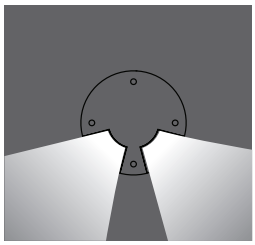
Led : Linear LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Polycarbonate
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F





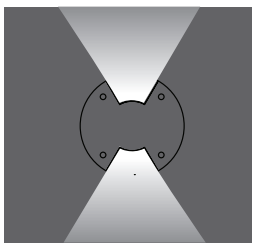
Power	Kelvin	Real Lumen Output	Code No
1x 4W	2700 K	1x 380 lm	180203
1x 4W	3000 K	1x 380 lm	180201
1x 4W	4000 K	1x 380 lm	180202





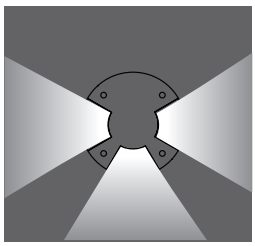
Power	Kelvin	Real Lumen Output	Code No
1x 4W	2700 K	1x 380 lm	180213
1x 4W	3000 K	1x 380 lm	180211
1x 4W	4000 K	1x 380 lm	180212





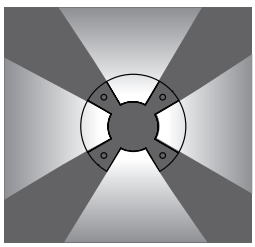
Power	Kelvin	Real Lumen Output	Code No
1x 4W	2700 K	1x 380 lm	180223
1x 4W	3000 K	1x 380 lm	180221
1x 4W	4000 K	1x 380 lm	180222



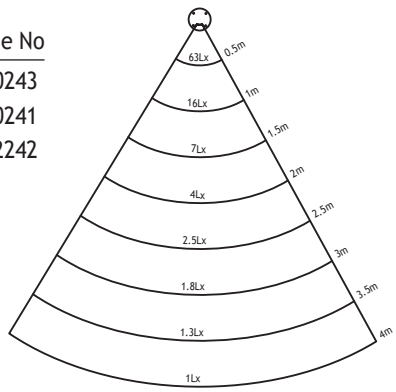


Power	Kelvin	Real Lumen Output	Code No
1x 4W	2700 K	1x 380 lm	180233
1x 4W	3000 K	1x 380 lm	180231
1x 4W	4000 K	1x 380 lm	180232





Power	Kelvin	Real Lumen Output	Code No
1x 4W	2700 K	1x 380 lm	180243
1x 4W	3000 K	1x 380 lm	180241
1x 4W	4000 K	1x 380 lm	182242



Lux levels for one aperture at 3000K



MIRA

SURFACE MOUNTED FIXTURES
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

The Mira series consists of a range of LED, fluorescent and metal halide sources to deliver the desired light effect to facades, columns, bridges, monuments, and signs. The series is made of a die cast aluminium body with electrostatic powder paint finished with a 316L stainless steel cover. The recessed versions are for drive over up to 20 kN including a stainless steel recessing box. The surface mounted versions come with a heavy-duty 316L stainless steel bracket. The fixtures come with integrated electronic ballasts and a specially developed potted power cable to effectively bond with the cast resin and stop any water ingress. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.



Cover
316L Stainless steel
Body
Die cast aluminium
Diffusers
12 mm Tempered Glass
Gaskets
Silicone
Screws
316L Stainless steel
Recessing Box
Stainless steel

“Customization” is EMFA’s standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

MIRA

SURFACE MOUNTED FIXTURES
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



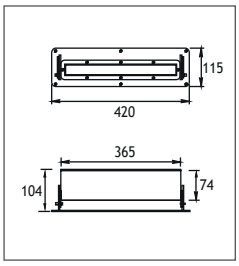


Led : Power LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 12 mm Tempered Glass
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

MIRA 1 Short Bracket

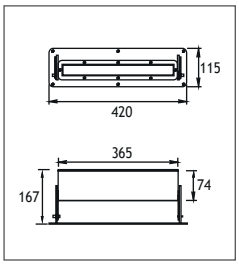




Power	Kelvin	Real Lumen Output	Lens	Code No
12W	2700 K	1140 lm	10°,25°,40°	430202
12W	3000 K	1140 lm	10°,25°,40°	430201
12W	4000 K	1160 lm	10°,25°,40°	430206
12W	6000 K	1185 lm	10°,25°,40°	430207
27W	RGB		25°,40°	430241

MIRA 1 Long Bracket

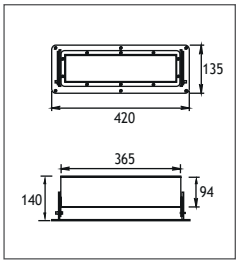




Power	Kelvin	Real Lumen Output	Lens	Code No
12W	2700 K	1140 lm	10°,25°,40°	430312
12W	3000 K	1140 lm	10°,25°,40°	430311
12W	4000 K	1160 lm	10°,25°,40°	430316
12W	6000 K	1185 lm	10°,25°,40°	430317
27W	RGB		25°,40°	430341

MIRA 2 Short Bracket

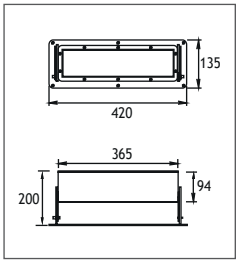




Power	Kelvin	Real Lumen Output	Lens	Code No
36W	2700 K	3420 lm	10°,25°,40°	430802
36W	3000 K	3420 lm	10°,25°,40°	430801
36W	4000 K	3488 lm	10°,25°,40°	430806
36W	6000 K	3557 lm	10°,25°,40°	430807
81W	RGB		25°,40°	430821
70W	METAL HALIDE G12			430841

MIRA 2 Long Bracket





Power	Kelvin	Real Lumen Output	Lens	Code No
36W	2700 K	3420 lm	10°,25°,40°	430902
36W	3000 K	3420 lm	10°,25°,40°	430901
36W	4000 K	3488 lm	10°,25°,40°	430906
36W	6000 K	3557 lm	10°,25°,40°	430907
81W	RGB		25°,40°	430921
70W	METAL HALIDE G12			430941

KARIA

SURFACE MOUNTED FIXTURES
Class I IP65 IK07

Available in these 2 colors

Grey Black

The Karia series consists of a range of LED and fluorescent sources to deliver the desired light effect to facades, columns, bridges, monuments, and signs. The series is made of an anodized extrusion aluminium body with polyamid side covers. Polyamid brackets are used to mount the fixtures. Stainless steel brackets are also available to increase the distance from the mounting surface if necessary. The fixtures come with integrated electronic ballasts and LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.



Body
Anodized Aluminium profile with polyamid 66 side covers
Mounting Brackets
Polyamide 66 (Stainless Steel on request)
Screws
Stainless steel
Diffusers
4 mm Tempered Glass
Gaskets
Silicone
Gland
2 cable Gland for 5-8 mm Ø cable

"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

KARIA

SURFACE MOUNTED FIXTURES
Class I IP67 IK07

Available in these 2 colors

Grey Black

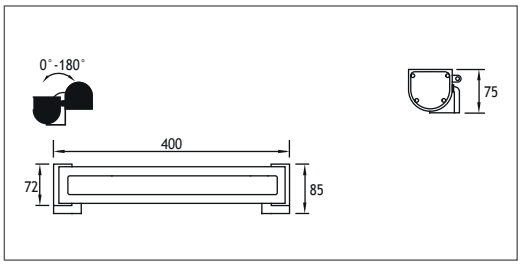


Led : Power LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 8 mm Tempered Glass
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

Karia 1 400mm

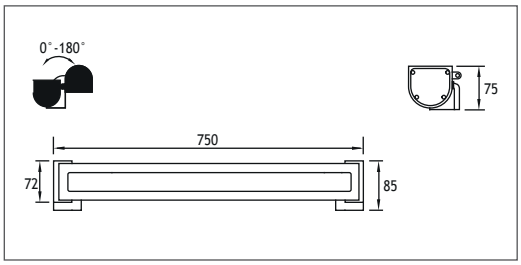




Power	Kelvin	Real Lumen Output	Lens	Code No
12W	2700 K	1140 lm	10°,25°,40°	431102
12W	3000 K	1140 lm	10°,25°,40°	431101
12W	4000 K	1162 lm	10°,25°,40°	431106
12W	6000 K	1186 lm	10°,25°,40°	431107
27W	RGB		25°,40°	431601

Karia 2 750mm

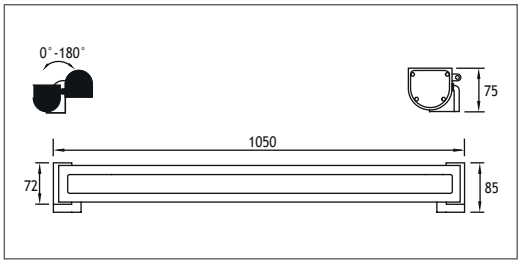




Power	Kelvin	Real Lumen Output	Lens	Code No
24W	2700 K	2280 lm	10°,25°,40°	431202
24W	3000 K	2280 lm	10°,25°,40°	431211
24W	4000 K	2325 lm	10°,25°,40°	431216
24W	6000 K	2372 lm	10°,25°,40°	431217

Karia 3 1050mm





Power	Kelvin	Real Lumen Output	Lens	Code No
36W	2700 K	3420 lm	10°,25°,40°	431244
36W	3000 K	3420 lm	10°,25°,40°	431241
36W	4000 K	3488 lm	10°,25°,40°	431242
36W	6000 K	3558 lm	10°,25°,40°	431243
81W	RGB		25°,40°	431251

SANTA

SURFACE MOUNTED FIXTURES
Class I IP65 IK08

Available in these 2 colors

Grey Black

The Santa series consists of a range of LED and fluorescent sources to deliver the desired light effect to facades, columns, bridges, monuments, and signs. The series is made of an anodized extrusion aluminium body with polyamid side covers. Polyamid brackets are used to mount the fixtures. Stainless steel brackets are also available to increase the distance from the mounting surface if necessary. The fixtures come with integrated electronic ballasts and LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.



Body
Anodized Aluminium profile with polyamid 66 side covers
Mounting Brackets
Stainless Steel on request
Screws
Stainless steel
Diffusers
Acrylic Diffuser
Gaskets
Silicone
Gland
2 cable Gland for 5-8 mm Ø cable

“Customization” is EMFA’s standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

SANTA

SURFACE MOUNTED FIXTURES
Class I IP65 IK08

Available in these 2 colors

Grey Black

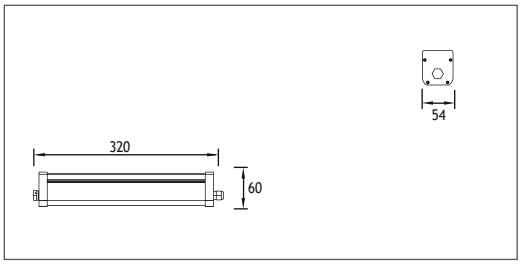


Led : Power LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 8 mm Tempered Glass
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

Santa 1 320mm

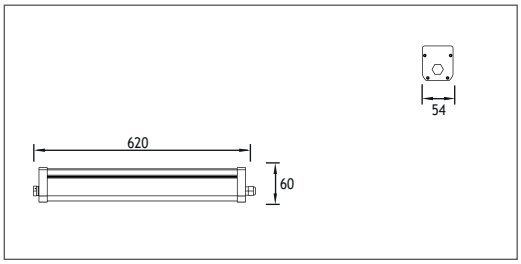




Power	Kelvin	Real Lumen Output	Lens	Code No
12W	2700 K	1140 lm	10°,25°,40°	444001
12W	3000 K	1140 lm	10°,25°,40°	444002
12W	4000 K	1162 lm	10°,25°,40°	444003
12W	6000 K	1186 lm	10°,25°,40°	444004

Santa 2 620mm

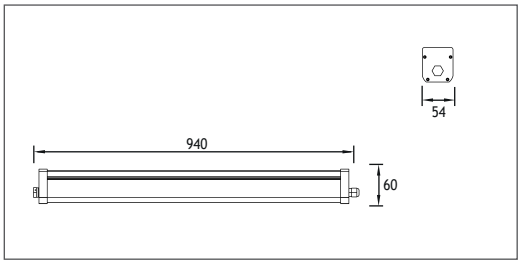




Power	Kelvin	Real Lumen Output	Lens	Code No
24W	2700 K	2280 lm	10°,25°,40°	444101
24W	3000 K	2280 lm	10°,25°,40°	444102
24W	4000 K	2325 lm	10°,25°,40°	444103
24W	6000 K	2372 lm	10°,25°,40°	444104

Santa 3 940mm

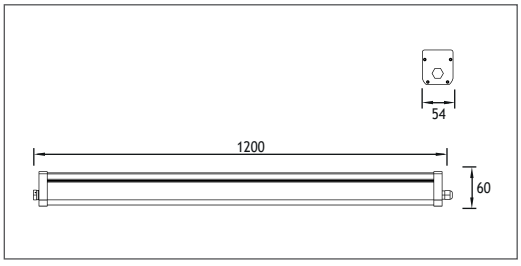




Power	Kelvin	Real Lumen Output	Lens	Code No
36W	2700 K	3420 lm	10°,25°,40°	444201
36W	3000 K	3420 lm	10°,25°,40°	444202
36W	4000 K	3488 lm	10°,25°,40°	444203
36W	6000 K	3558 lm	10°,25°,40°	444204

Santa 4 1200mm





Power	Kelvin	Real Lumen Output	Lens	Code No
48W	2700 K	4560 lm	10°,25°,40°	444301
48W	3000 K	4560 lm	10°,25°,40°	444302
48W	4000 K	4670 lm	10°,25°,40°	444303
48W	6000 K	4780 lm	10°,25°,40°	444304

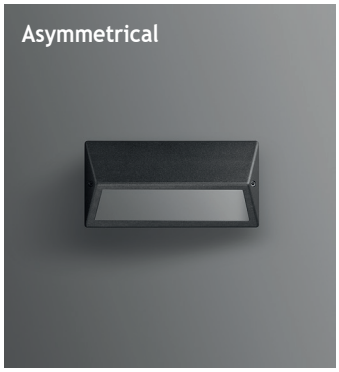
SLIM PYRAMID

WALL SURFACE FIXTURES
IP65 IK08

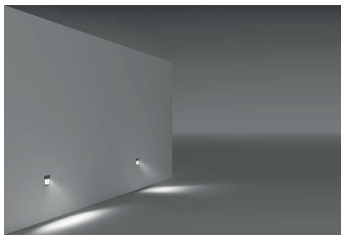
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Cover & Body
Glass reinforsed polyester
Screws
Inox
Gasket
Silicone
Glass
Tempered
Recessing Box
Galvanized steel

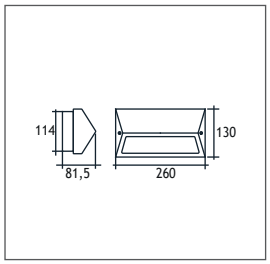


Voltage : 240 VAC with integrated driver
(24V AC or DC on request)
Cable : Potted 1 m 3x1 H03 VV-F



Asymmetrical





Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	503603
9W	LED	3000 K	503601
9W	LED	4000 K	503602
9W	LED	6000 K	503604
1x 9W FLUO.	G24 d-1		503501

EMFA

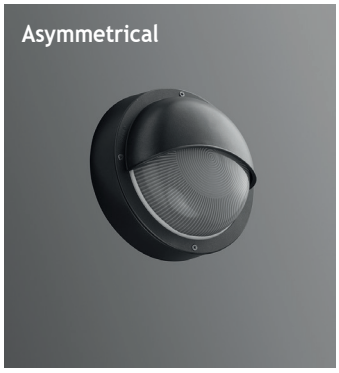
SIDE WALL SURFACE FIXTURES
IP65 IK08

Available in any of these RAL colors

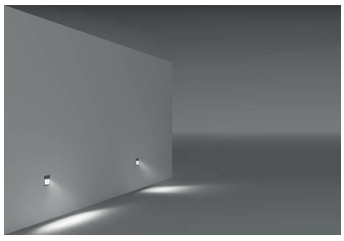
7004 7016 9005 9016 6002 1015

Body
Die Cast Aluminium
Cover
Die Cast Aluminium
Paint
Electrostatic powder paint
Diffuser
Polycarbonate



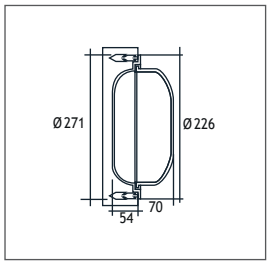


Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Cable : Potted 1 m 3x1 H03 VV-F



Side 1

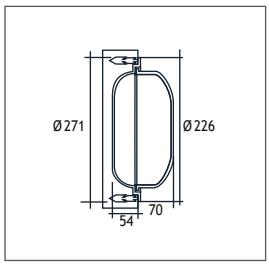




Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	505211
9W	LED	3000 K	505212
9W	LED	4000 K	505213
9W	LED	6000 K	505214
75W HALOGEN	E27		505201
1x 26W FLUO.	G24 d-3		505221

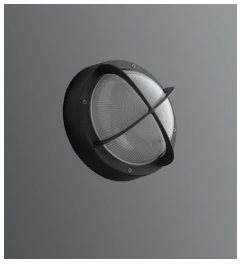
Side 2

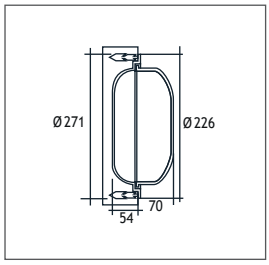




Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	507211
9W	LED	3000 K	507212
9W	LED	4000 K	507213
9W	LED	6000 K	507214
75W HALOGEN	E27		507201
1x 26W FLUO.	G24 d-3		507221

Side 3





Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	506211
9W	LED	3000 K	506212
9W	LED	4000 K	506213
9W	LED	6000 K	506214
75W HALOGEN	E27		506201
1x 26W FLUO.	G24 d-3		506221

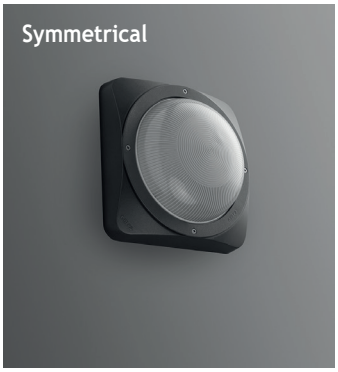
PERGE

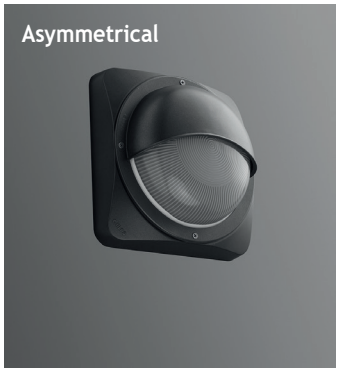
WALL SURFACE FIXTURES
IP65 IK08

Available in any of these RAL colors

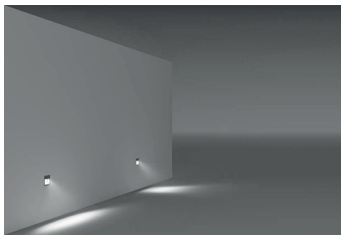
7004 7016 9005 9016 6002 1015

Body
Die Cast Aluminium
Cover
Die Cast Aluminium
Paint
Electrostatic powder paint
Diffuser
Polycarbonate



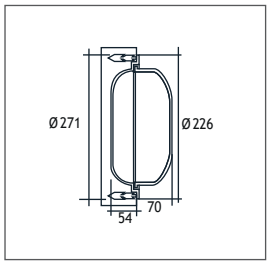


Voltage : 240 VAC with integrated driver (24V AC or DC on request)
Cable : Potted 1 m 3x1 H03 VV-F



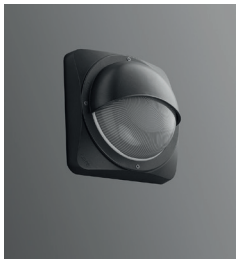
Perge 1

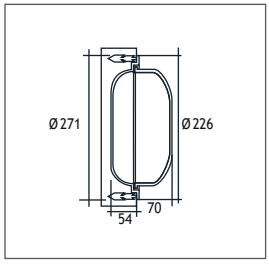




Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	515211
9W	LED	3000 K	515212
9W	LED	4000 K	515213
9W	LED	6000 K	515214
75W HALOGEN	E27		515201
1x 26W FLUO.	G24 d-3		515221

Perge 2

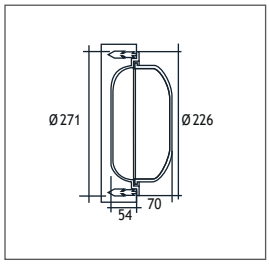




Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	517211
9W	LED	3000 K	517212
9W	LED	4000 K	517213
9W	LED	6000 K	517214
75W HALOGEN	E27		517201
1x 26W FLUO.	G24 d-3		517221

Perge 3





Power	Lampholder	Kelvin	Code No
9W	LED	2700 K	516211
9W	LED	3000 K	516212
9W	LED	4000 K	516213
9W	LED	6000 K	516214
75W HALOGEN	E27		516201
1x 26W FLUO.	G24 d-3		516221

EMFA

MILET

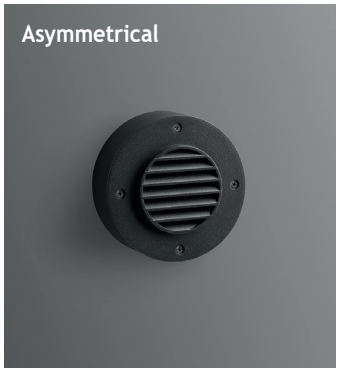
WALL SURFACE FIXTURES
IP65 IK08

Available in any of these RAL colors



Cover
Die cast aluminium / Inox (Stainless steel)
Paint
Black or grey electrostatic powder
Body
Die cast aluminium
Connection
Sealed crimp splices
Gaskets
Silicone
Diffusers
4 mm Tempered Glass

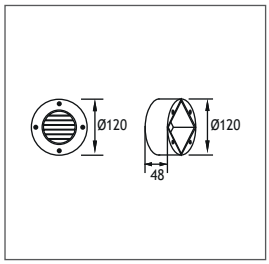




The Milet Surface Mounted Series is specially designed to deliver low glare halogen lighting to steps, open areas, corridors and pathways. The fixture has a die cast aluminium body painted with electrostatic powder paint. The slated or open covers come in an aluminium or aluminium / stainless steel finish. The cable on site can be securely connected to the fixture via a sealed crimp splice.

Symmetrical

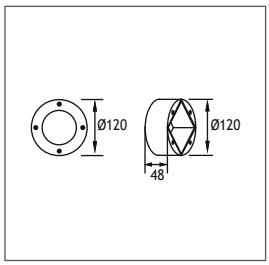




Power	Lampholder	Reflector	Code No Alum.	Inox
40W HALOGEN	G 9	-	312111	314111

Asymmetrical





Power	Lampholder	Reflector	Code No Alum.	Inox
40W HALOGEN	G 9	-	310111	311111



MILET

INDIRECT SURFACE MOUNTED FIXTURE
Class I IP55 IK08

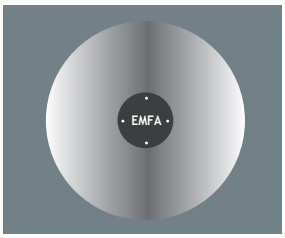
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

The Milet Indirect series consists of an on-wall fixture and a bollard using LED, halogen or fluorescent. The fixtures are made of a combination of a die cast aluminium head and an aluminium pipe painted with electrostatic powder paint. The wall fixture allows for a custom made sign showing room numbers or names. For the LED versions, a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. For the halogen and fluorescent versions, an IP connection box is provided to allow for a secure connection of the on-site cable.



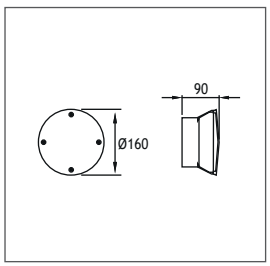
Cover
Die cast aluminium
Paint
Black or grey electrostatic powder
Body
Die cast aluminium
Connection
IP connection box
Gaskets
Silicone
Diffusers
Polycarbonate





Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Diffuser : Polycarbonate
Cable : Potted 1 m 3x1 H03 VV-F





Power	Lampholder	Kelvin	Code No
11W	LED	2700 K	290102
11W	LED	3000 K	290101
11W	LED	4000 K	290103
11W	LED	6000 K	290104
40W HALOGEN	G 9		290201





Special Application

For room numbers, names, signs etc. The acrylic part inside can be colour of choice.

CODE NO 295115
ELECTR. CIR. FLUO. 6W

EMFA

SQUARE MINI

LED APPLIQUES
LED DRIVER IN HADE
Class I IP65 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Body
Die cast aluminium
Paint
Electrostatic powder
Gaskets
Silicone
Diffusers
Tempered Glass





"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

POWER LED (COB LED options available)

Voltage : 240 VAC with integrated driver
(12-24 VDC on request)

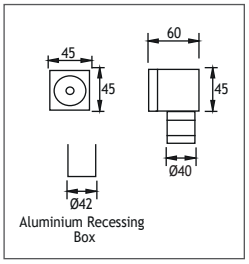
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 1m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red



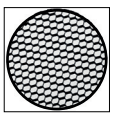




Aluminium Recessing Box

240V Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	298004
1W LED	3000 K	95 lm	10°,25°,40°	298001
1W LED	4000 K	97 lm	10°,25°,40°	298002
1W LED	6000 K	99 lm	10°,25°,40°	298003
3W LED	2700 K	285 lm	10°,25°,40°	298014
3W LED	3000 K	285 lm	10°,25°,40°	298011
3W LED	4000 K	290 lm	10°,25°,40°	298012
3W LED	6000 K	296 lm	10°,25°,40°	298013

12-24V Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	298024
6W LED	3000 K	570 lm	10°,25°,40°	298021
6W LED	4000 K	585 lm	10°,25°,40°	298022
6W LED	6000 K	592 lm	10°,25°,40°	298023



Honeoycomb
Code No: 953541

BELKIS 1 LL

WALL SURFACE FIXTURES
IP65 IK08

Available in any of these RAL colors

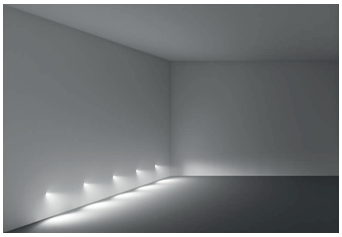
7004 7016 9005 9016 6002 1015

Body
Die cast aluminium
Paint
Electrostatic powder
Diffusers
Tempered Glass 4 mm
Gaskets
Silicone





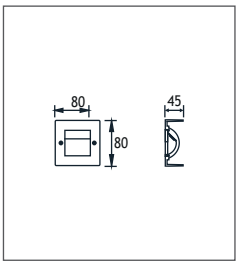
The Belkis 1 LLS is specially designed to deliver low glare LED lighting to steps, open areas, corridors and pathways where recessing the fixture is not possible. The fixture has a die cast aluminium body painted with electrostatic powder paint. The narrow depth of 39mm, which also includes the LED driver, allows the fixture to be installed in any wall. A plastic recessing box is included for installation into concrete. A specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The linear LED used comes in 2 different tones of white, 3000K and 4000K.



Led : Linear LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 4 mm Tempered Glass
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

Asymmetrical



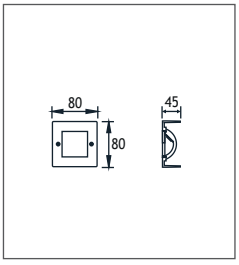


Power	Kelvin	Real Lumen Output	Code No
3W	2700 K	285 lm	424143
3W	3000 K	285 lm	424141
3W	4000 K	290 lm	424142
3W	6000 K	296 lm	424144

Symmetrical







Power	Kelvin	Real Lumen Output	Code No Milky Glass	Code No Clear Glass
3W	2700 K	285 lm	424143	424163
3W	3000 K	285 lm	424141	424161
3W	4000 K	290 lm	424142	424162
3W	6000 K	296 lm	424144	424164

EMFA



SATURN LL

WALL SURFACE FIXTURES
IP65 IK08

Available in any of these RAL colors

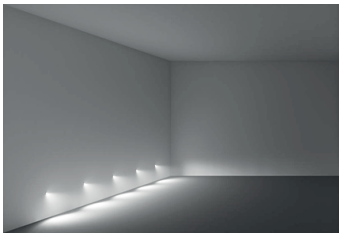
7004 7016 9005 9016 6002 1015

Body
Die cast aluminium
Paint
Electrostatic powder
Diffusers
Tempered Glass 4 mm
Gaskets
Silicone





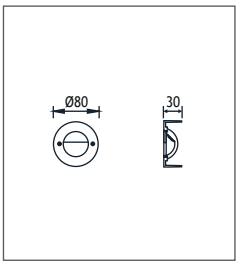
The Saturn 1 LLS is specially designed to deliver low glare LED lighting to steps, open areas, corridors and pathways where recessing the fixture is not possible. The fixture has a die cast aluminium body painted with electrostatic powder paint. The narrow depth of 39mm, which also includes the LED driver, allows the fixture to be installed in any wall. A plastic recessing box is included for installation into concrete. A specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The linear LED used comes in 2 different tones of white, 3000K and 4000K.



Led : COB LEDs
Voltage : 240 VAC with integrated driver
(12-24 VDC on request)
Diffuser : 4 mm Tempered Glass Clear Glass or Milky Glass
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

Asymmetrical



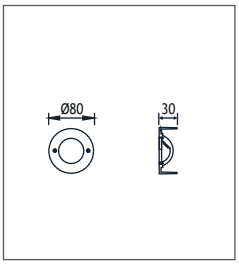


Power	Kelvin	Real Lumen Output	Code No
3W	2700 K	285 lm	526003
3W	3000 K	285 lm	526001
3W	4000 K	290 lm	526002
3W	6000 K	296 lm	526004

Symmetrical







Power	Kelvin	Real Lumen Output	Code No Milky Glass	Code No Clear Glass
3W	2700 K	285 lm	526203	526103
3W	3000 K	285 lm	526201	526101
3W	4000 K	290 lm	526202	526102
3W	6000 K	296 lm	526204	526104

EMFA



LYKIA LL

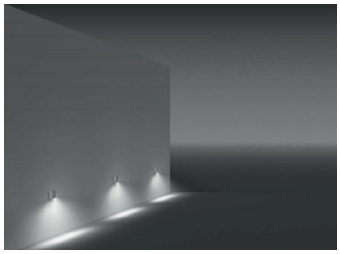
WALL SURFACE FIXTURES
IP65 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Body
Die cast aluminium
Paint
Electrostatic powder
Diffusers
Tempered Glass 4 mm
Gaskets
Silicone





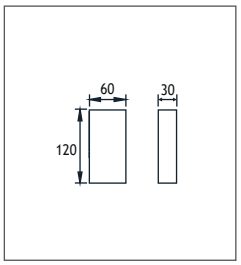


The LYKIA LL is specially designed to deliver low glare LED lighting to steps, open areas, corridors and pathways where recessing the fixture is not possible. The fixture has a die cast aluminium body painted with electrostatic powder paint. The narrow depth of 39mm, which also includes the LED driver, allows the fixture to be installed in any wall. A plastic recessing box is included for installation into concrete. A specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The linear LED used comes in 2 different tones of white, 3000K and 4000K.

Led : Linear LEDs
Voltage : 240 VAC with integrated driver
(12-24 VDC on request)
Diffuser : 4 mm Tempered Glass Clear Glass or Milky Glass
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1 m 3x1 H03 VV-F

Asymmetrical

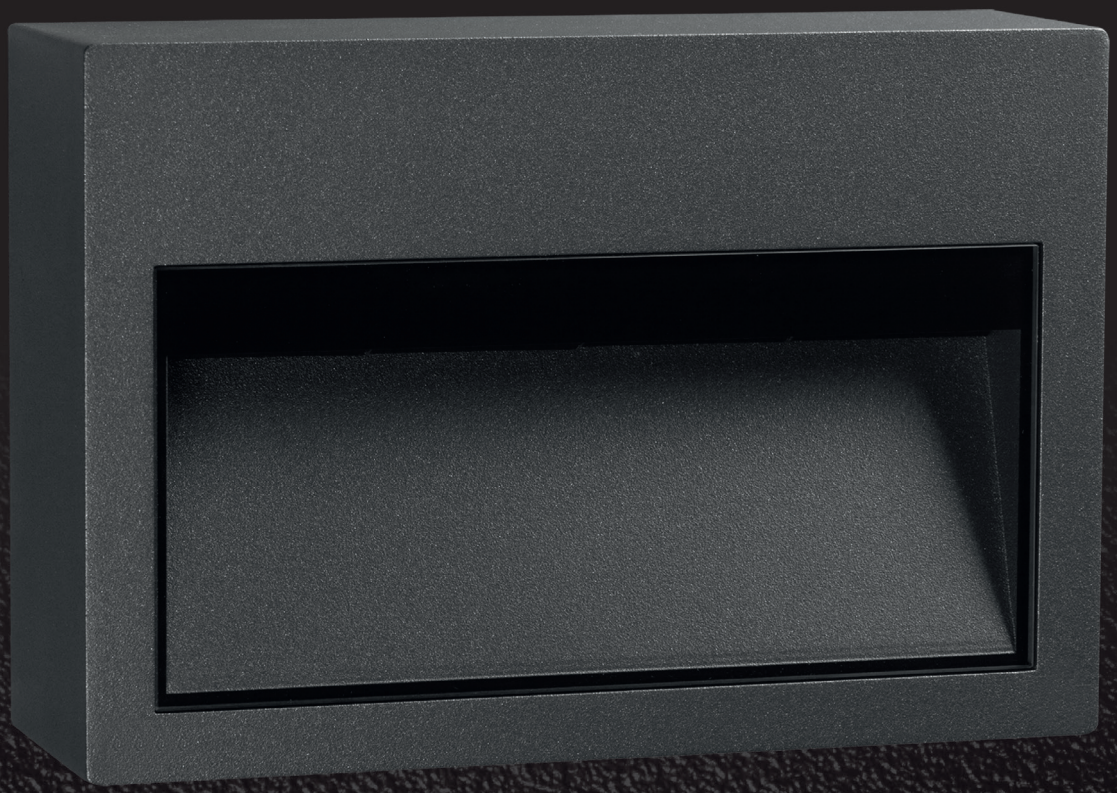




Power	Kelvin	Real Lumen Output	Code No
3W	2700 K	285 lm	424202
3W	3000 K	285 lm	424201
3W	4000 K	290 lm	424203
3W	6000 K	296 lm	424204

EMFA





EMFA

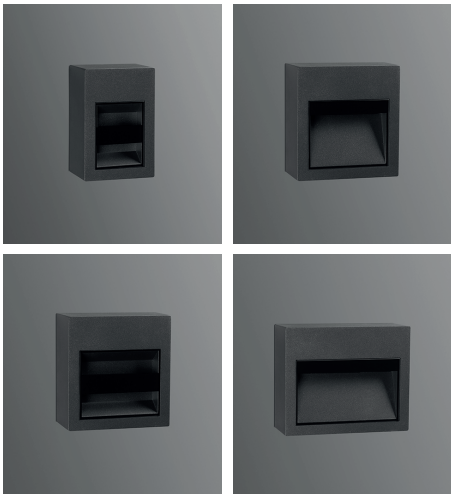
MILET ANI

WALL SURFACE
Class I IP67 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

EMFA's Ani surface mounted series is specially designed to deliver low-glare lighting to facades, walkways,pathways and driveways with minimal installation depth and narrow trim. The fixture is made of a combination of 316L stainless steel and die cast aluminium. The tilted design reduces the glare of the LED's The Linear LEDs with special lenses gives excellent wallwashing effect. An anti-slip glass is available upon request.

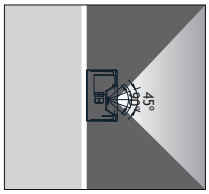


Cover
316L Stainless steel or Aluminium
Body
Die cast aluminium
Gaskets
Silicone
Diffusers
4 mm Tempered Glass
Screws
316L Stainless Steel
Glands
PG 11

"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, and available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

Symmetrical

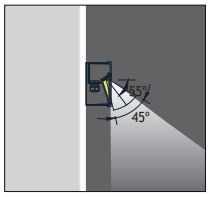


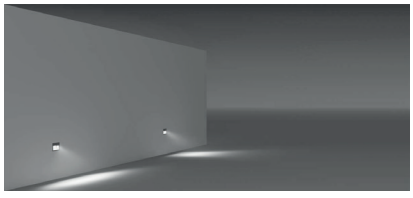


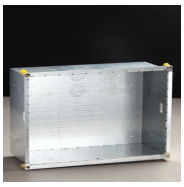


Asymmetrical









Galvanized Surface Box



end of the code number "s" add for Screw mounting option for

LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Asym. Glass



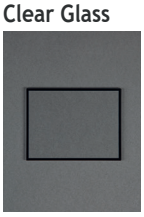
Trenched Glass



Milky Glass



Clear Glass



MILET ANI

WALL SURFACE
Class I IP67 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



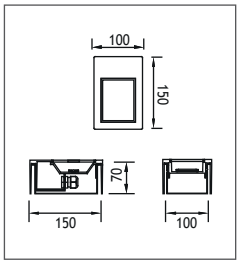


Led : Linear LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 8mm Tempered Glass
Beam Angle : 45° / 60° / 90°
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

ANI 1





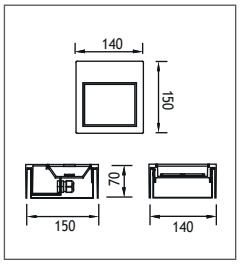


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
6W	2700 K	570 lm	457003	457503
12W	2700 K	1140 lm	457013	457513
6W	3000 K	570 lm	457001	457501
12W	3000 K	1140 lm	457011	457511
6W	4000 K	690 lm	457002	457502
12W	4000 K	1195 lm	457012	457512

ANI 2





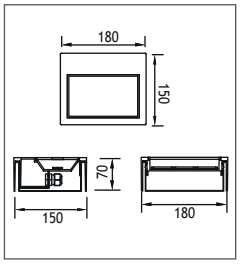


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
12W	2700 K	1140 lm	457103	457603
24W	2700 K	2280 lm	457113	457613
12W	3000 K	1140 lm	457101	457601
24W	3000 K	2280 lm	457111	457611
12W	4000 K	1254 lm	457102	457602
24W	4000 K	2320 lm	457112	457612

ANI 3





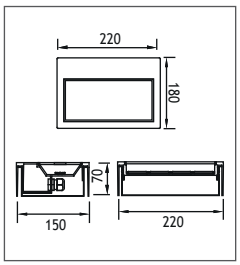


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
18W	2700 K	1710 lm	457203	457703
36W	2700 K	3420 lm	457213	457713
18W	3000 K	1710 lm	457201	457701
36W	3000 K	3420 lm	457211	457711
18W	4000 K	1790 lm	457202	457702
36W	4000 K	3520 lm	457212	457712

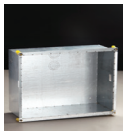
ANI 4







Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
24W	2700 K	2280 lm	457303	457803
36W	2700 K	3420 lm	457313	457813
24W	3000 K	2280 lm	457301	457801
36W	3000 K	3420 lm	457311	457811
24W	4000 K	2320 lm	457302	457802
36W	4000 K	3520 lm	457312	457812



Galvanized Recessing Box

EMFA

MILET ANI

WALL SURFACE ADJUASTABLE
Class I IP67 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



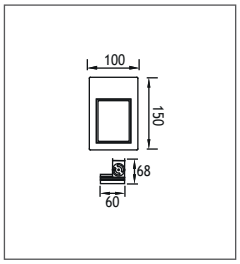


Led : Linear LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 8mm Tempered Glass
Beam Angle : 45° / 60° / 90°
Mac Adam : 3
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

ANI 1





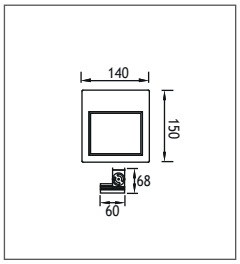


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
6W	2700 K	570 lm	454003	454503
12W	2700 K	1140 lm	454013	454513
6W	3000 K	570 lm	454001	454501
12W	3000 K	1140 lm	454011	454511
6W	4000 K	690 lm	454002	454502
12W	4000 K	1195 lm	454012	454512

ANI 2





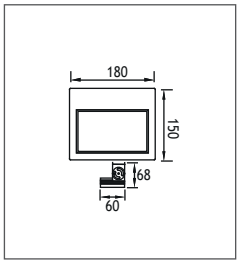


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
12W	2700 K	1140 lm	454103	454603
24W	2700 K	2280 lm	454113	454613
12W	3000 K	1140 lm	454101	454601
24W	3000 K	2280 lm	454111	454611
12W	4000 K	1254 lm	454102	454602
24W	4000 K	2320 lm	454112	454612

ANI 3





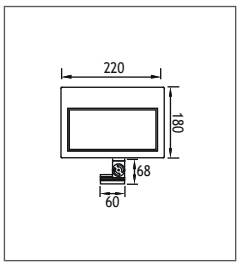


Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
18W	2700 K	1710 lm	454203	454703
36W	2700 K	3420 lm	454213	454713
18W	3000 K	1710 lm	454201	454701
36W	3000 K	3420 lm	454211	454711
18W	4000 K	1790 lm	454202	454702
36W	4000 K	3520 lm	454212	454712

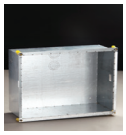
ANI 4







Power	Kelvin	Real Lumen Output	Code No Symmetrical	Asymmetrical
24W	2700 K	2280 lm	454303	454803
36W	2700 K	3420 lm	454313	454813
24W	3000 K	2280 lm	454301	454801
36W	3000 K	3420 lm	454311	454811
24W	4000 K	2320 lm	454302	454802
36W	4000 K	3520 lm	454312	454812



Galvanized Recessing Box

EMFA

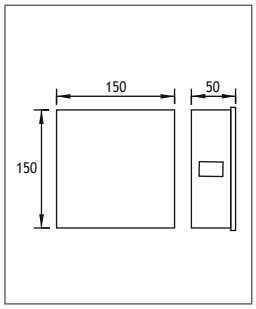
TAROS 2

SURFACE LED FIXTURES
Class I IP55 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



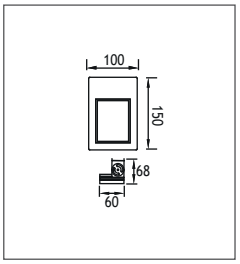


Led : Power LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Polycarbonate
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

Mono

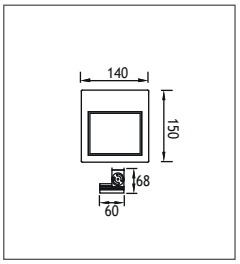




Power	Kelvin	Real Lumen Output	Code No
1x 4W	2700 K	1x 380 lm	443001
1x 4W	3000 K	1x 380 lm	443002
1x 4W	4000 K	1x 418 lm	443003
1x 4W	6000 K	1x 418 lm	443004

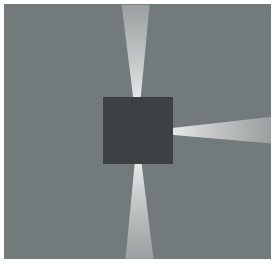
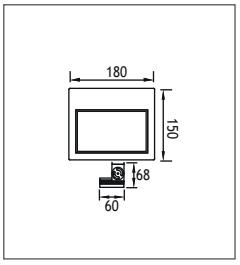
Dual





Power	Kelvin	Real Lumen Output	Code No
2x 4W	2700 K	2x 380 lm	443101
2x 4W	3000 K	2x 380 lm	443102
2x 4W	4000 K	2x 392 lm	443103
2x 4W	6000 K	2x 392 lm	443104

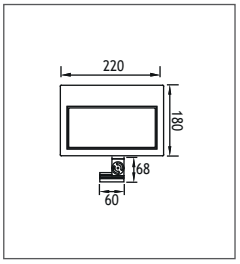
Tiro

Power	Kelvin	Real Lumen Output	Code No
3x 4W	2700 K	2x 380 lm	443201
3x 4W	3000 K	2x 380 lm	443202
3x 4W	4000 K	2x 392 lm	443203
3x 4W	6000 K	2x 392 lm	443204

Quad

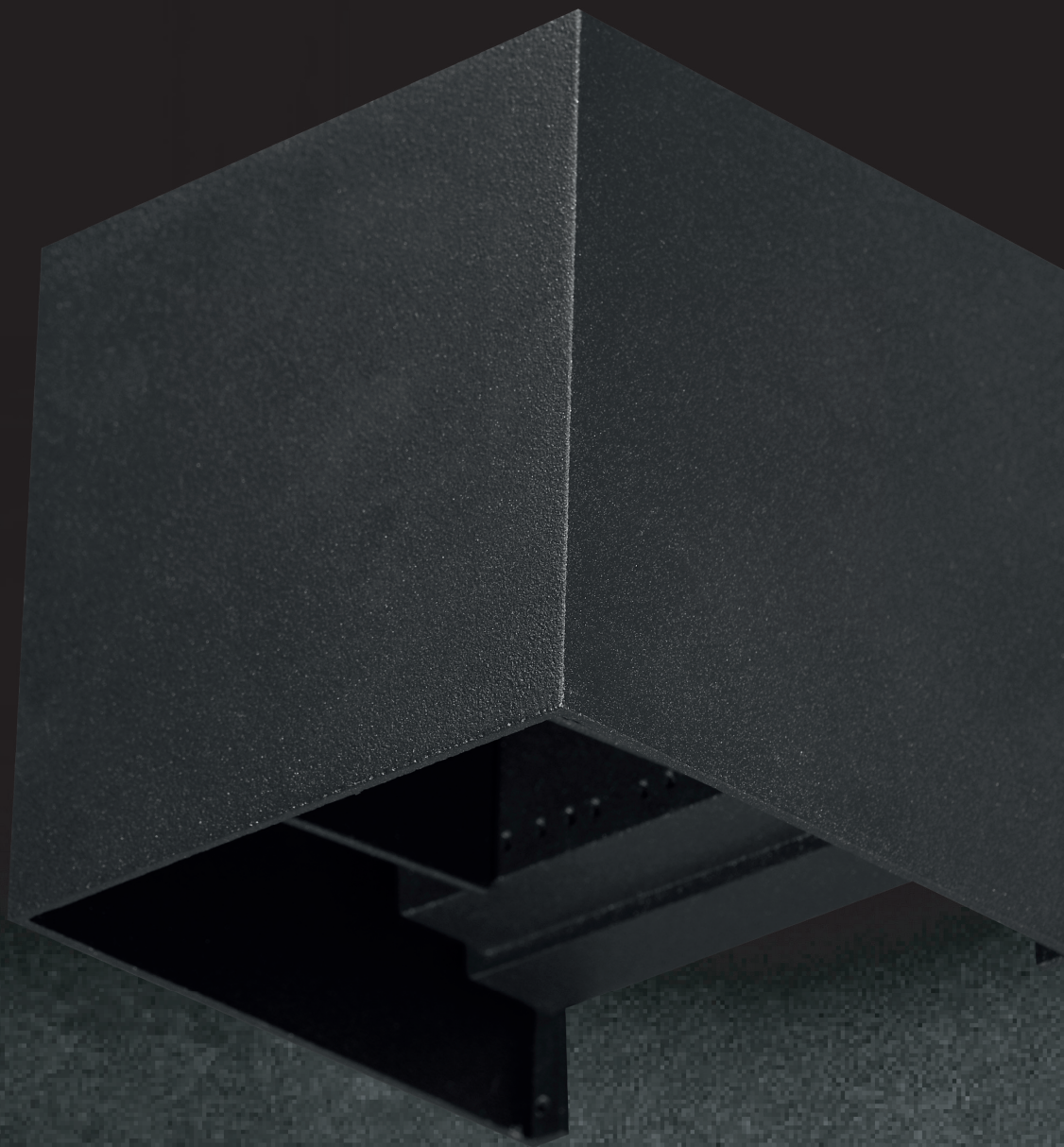




Power	Kelvin	Real Lumen Output	Code No
4x 4W	2700 K	3x 380 lm	443301
4x 4W	3000 K	3x 380 lm	443302
4x 4W	4000 K	3x 392 lm	443303
4x 4W	6000 K	3x 392 lm	443304

EMFA

Selge Applique



EMFA

SELGE

ADJUSTABLE TWO WAY LED APPLIQUES
Class I IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

The Selge Adjustable Applique series consists of a range of LED light sources to deliver the desired light effect to facades and columns. The series is made of die cast aluminium and extrusion aluminium painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.



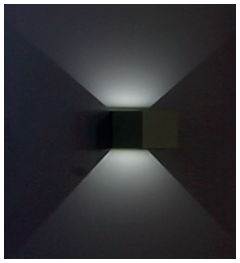
Outer Body
Extruded aluminium
Body
Die cast aluminium
Paint
Electrostatic powder
Bracket
Die cast aluminium
Diffuser
Tempered Glass or acrylic

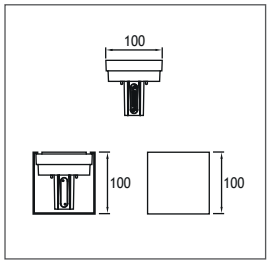
"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, and available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

Adjustable



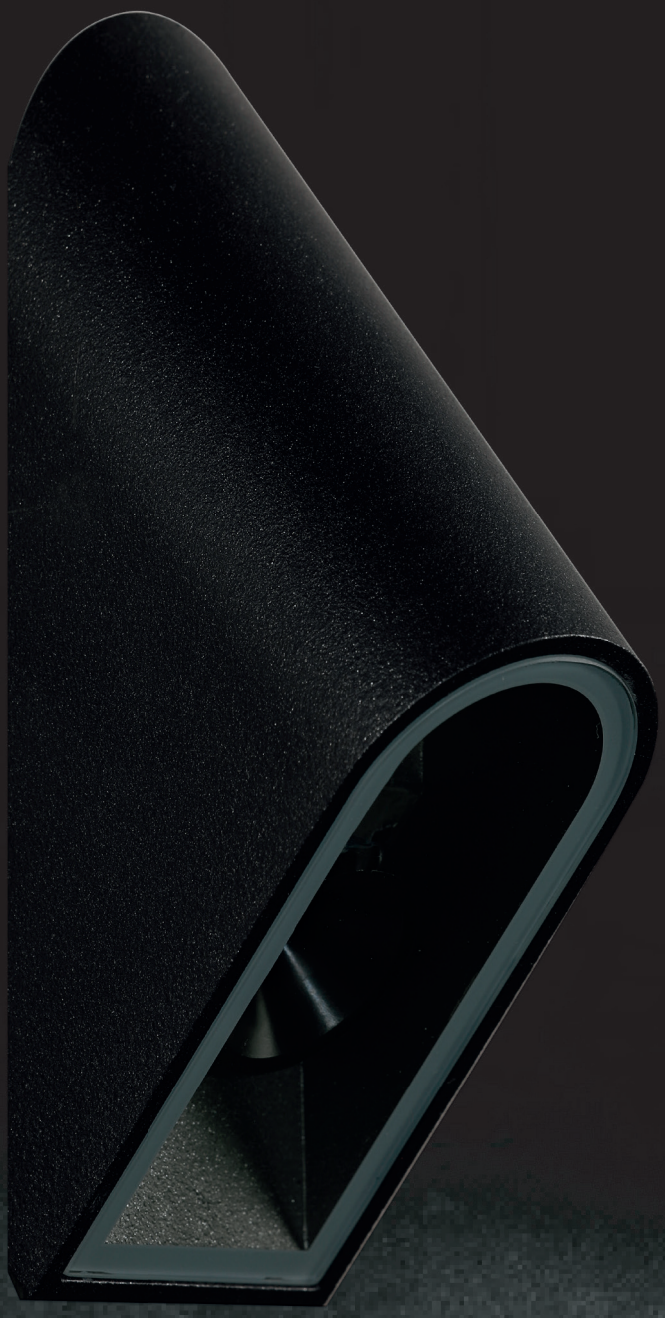
Led : Linear LEDs
Voltage : 240 VAC with integrated driver
(12-24 VDC on request)
Diffuser : 3mm Tempered Clear Glass or Milky Glass
Mac Adam : 3
CRI : >80 or >90





Power	Kelvin	Real Lumen Output	Code No
2x 3W	2700 K	2x 285 lm	108004
2x 3W	3000 K	2x 285 lm	108001
2x 3W	4000 K	2x 290 lm	108002
2x 3W	6000 K	2x 296 lm	108003

Silyon Wall Surface



EMFA

SILYON

LED SURFACE MOUNTED
Class I IP65

Available in any of these RAL colors



The Silyon Surface Mount series consists of a range of LED light sources to deliver the desired light effect to facades and columns. The series is made of die cast aluminium and painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.

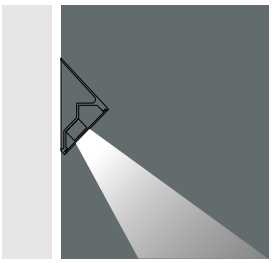


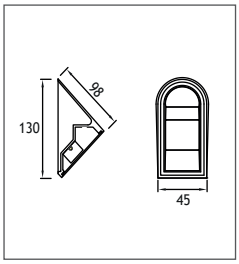
Body
Die cast aluminium
Paint
Electrostatic powder
Base
316L Stainless Steel
Diffuser
Tempered Glass or acrylic

Led : Power LEDs
Voltage : 240 VAC with integrated driver
(12-24 VDC on request)
Diffuser : Polycarbonate
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

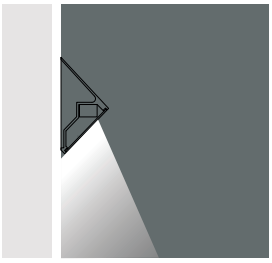


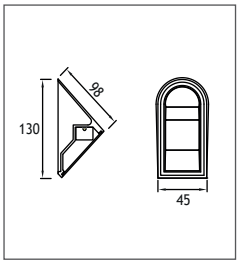




Power	Kelvin	Real Lumen Output 1W	Real Lumen Output 3W	Code No 1W	Code No 3W
LED	2700 K	95 lm	285 lm	109011	109004
LED	3000 K	95 lm	285 lm	109012	109001
LED	4000 K	97 lm	290 lm	109013	109002
LED	6000 K	99 lm	296 lm	109014	109003







Power	Kelvin	Real Lumen Output 1W	Real Lumen Output 3W	Code No 1W	Code No 3W
LED	2700 K	95 lm	285 lm	109111	109104
LED	3000 K	95 lm	285 lm	109112	109101
LED	4000 K	97 lm	290 lm	109113	109102
LED	6000 K	99 lm	296 lm	109114	109103

EMFA

LEON

LED SURFACE MOUNTED
Class I IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

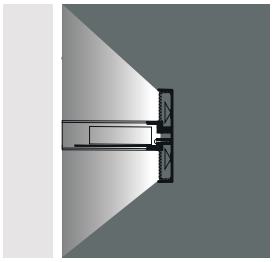
EMFA's Leon combines a die-cast aluminium head housing an LED unit with an extrusion aluminium pipe. The bollard is designed to light pathways, landscapes and open spaces. The Leon bollard gives light only in the downward direction. This avoids any kind of glare and light pollution. The head and pipe are connected by a hidden screw within the pipe. The head contains LEDs that can be powered up to 12W. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleave anchors for mounting onto existing concrete or a picket to mount into the earth.

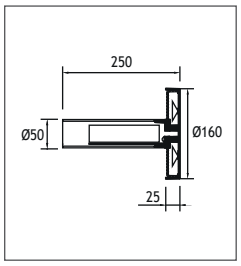


Head
Die cast aluminium
Diffusers
Frosted polyamide 6.6
Pipe
Extrusion aluminium
Paint
Electrostatic powder

Led : Circular LEDs (6W or 12W)
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Polyamide
CRI : >80
Cable : Potted 1m 3x1 H03 VV-F







Power	Kelvin	Real Lumen Output 6W	Real Lumen Output 12W	Code No 6W	Code No 12W
LED	2700 K	570 lm	1140 lm	179001	179011
LED	3000 K	570 lm	1140 lm	179002	179012
LED	4000 K	582 lm	1162 lm	179003	179013
LED	6000 K	591 lm	1185 lm	179004	179014



Ceramus Mini Applique

Ø43mm



CERAMUS MINI

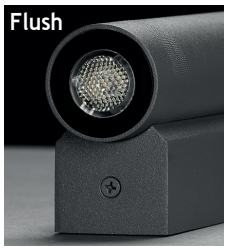
LED APPLIQUES
Class I IP65

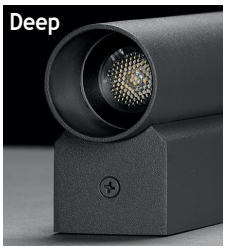
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Body
Die cast aluminium
Paint
Electrostatic powder
Bracket
Die cast aluminium
Diffuser
Tempered Glass or acrylic
Gaskets
Silicon



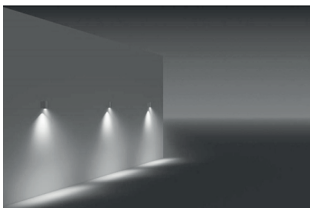


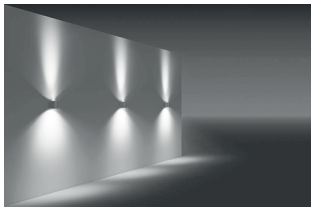


POWER LEDs

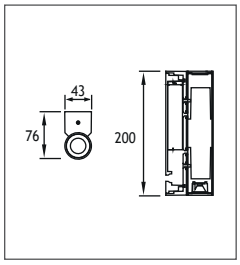
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Clear Glass 8 mm (Frosted Glass on request)
Lens : 10°, 20° or 30°
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red



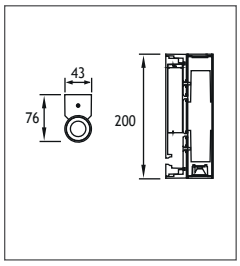




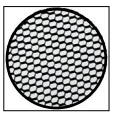


Power	Kelvin	Real Lumen Output 1W	3W	Lens	Code No 1W	3W
LED	2700 K	95 lm	285 lm	10°,25°,40°	463004	463014
LED	3000 K	95 lm	285 lm	10°,25°,40°	463001	463011
LED	4000 K	97 lm	290 lm	10°,25°,40°	463002	463012
LED	6000 K	99 lm	296 lm	10°,25°,40°	463003	463013





Power	Kelvin	Real Lumen Output 1W	3W	Lens	Code No 1W	3W
LED	2700 K	95 lm	285 lm	10°,25°,40°	463104	463114
LED	3000 K	95 lm	285 lm	10°,25°,40°	463101	463111
LED	4000 K	97 lm	290 lm	10°,25°,40°	463102	463112
LED	6000 K	99 lm	296 lm	10°,25°,40°	463103	463113



Honeycomb
Code No: 953511

EMFA

Ceramus 2 Applique

Ø80mm



CERAMUS 2

LED APPLIQUES
Class I IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Body
Die cast aluminium
Paint
Electrostatic powder
Bracket
Die cast aluminium
Diffuser
Tempered Glass or acrylic
Gaskets
Silicon

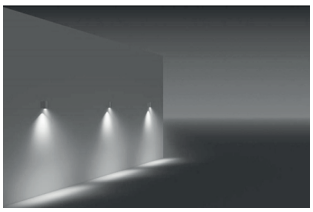


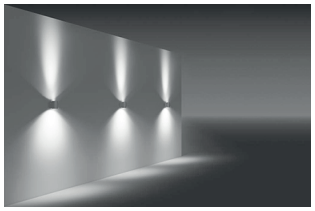




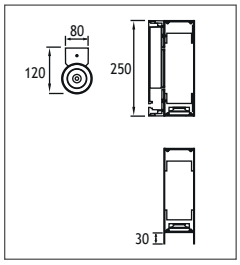
COB LED

Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Clear Glass 8 mm (Frosted Glass on request)
Lens : 10°, 20° or 30°
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F



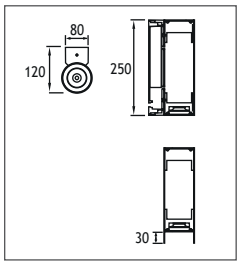




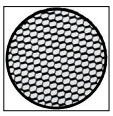


Power	Kelvin	Real Lumen Output 6W	12W	Lens	Code No 6W	12W
LED	2700 K	570 lm	1140 lm	10°,20°,30°	464004	464014
LED	3000 K	570 lm	1140 lm	10°,20°,30°	464001	464011
LED	4000 K	582 lm	1162 lm	10°,20°,30°	464002	464012
LED	6000 K	591 lm	1185 lm	10°,20°,30°	464003	464013





Power	Kelvin	Real Lumen Output 2x 6W	2x 12W	Lens	Code No 6W	12W
LED	2700 K	570 lm	1140 lm	10°,20°,30°	464104	464114
LED	3000 K	570 lm	1140 lm	10°,20°,30°	464101	464111
LED	4000 K	582 lm	1162 lm	10°,20°,30°	464102	464112
LED	6000 K	591 lm	1185 lm	10°,20°,30°	464103	464113



Honeycomb
Code No: 953522

EMFA



BELKIS

APPLIQUES
Class I IP55 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

The Belkis Applique series consists of a range of LED, metal halide and halogen sources to deliver the desired light effect to facades and columns. The series is made of die cast aluminium and extrusion aluminium painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.

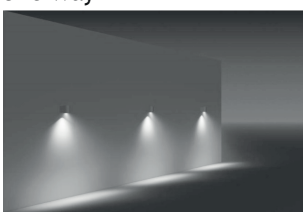




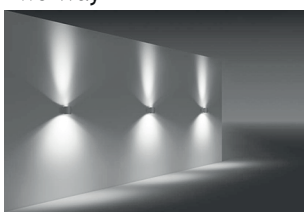
Body
Aluminium Profile
Cover
Die cast aluminium
Paint
Electrostatic powder
Bracket
Die cast aluminium
Diffusers
Tempered Glass
Gaskets
Silicone
Connection
IP connection box

“Customization” is EMFA’s standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

One Way



Two Way





LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

BELKIS

APPLIQUES
Class I IP55 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



Power LEDs

Voltage : 240 VAC with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

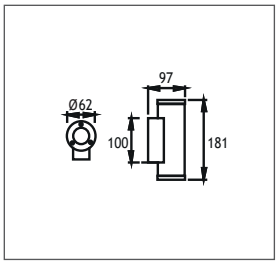
CRI : >80 or >90

Cable : Potted 1 m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

BELKIS 1

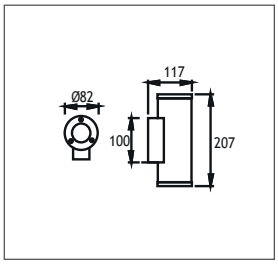




Power	Kelvin	Real Lumen Output	Lens	Code No One Way	Code No Two Way
1W	2700 K	95 lm	10°,25°,40°	425102	425112
1W	3000 K	95 lm	10°,25°,40°	425101	425111
1W	4000 K	97 lm	10°,25°,40°	425106	425116
1W	6000 K	99 lm	10°,25°,40°	425107	425117
25W	HALOGEN	G9		340101	343101

BELKIS 2

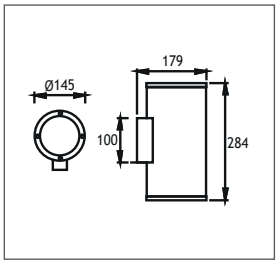




Power	Kelvin	Real Lumen Output	Lens	Code No One Way	Code No Two Way
3W	2700 K	285 lm	10°,25°,40°	425122	425152
3W	3000 K	285 lm	10°,25°,40°	425121	425131
3W	4000 K	290 lm	10°,25°,40°	425126	425136
3W	6000 K	296 lm	10°,25°,40°	425127	425137
35W	HALOGEN	Gu10		341111	344111

BELKIS 5

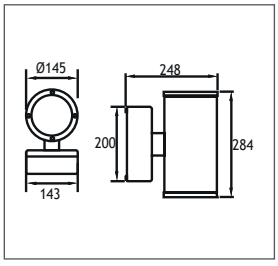




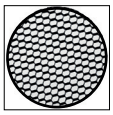
Power	Kelvin	Real Lumen Output	Lens	Code No One Way	Code No Two Way
9W	2700 K	810 lm	10°,25°,40°	425142	425152
9W	3000 K	810 lm	10°,25°,40°	425141	425151
9W	4000 K	891 lm	10°,25°,40°	425146	425156
9W	6000 K	898 lm	10°,25°,40°	425147	425157
75W	HALOGEN	E27		342111	345111

BELKIS 5 M.H.





Power	Lampholder	Code No One Way	Code No Two Way
35W METAL HALIDE	G12	346401	346501
70W METAL HALIDE	G12	346411	346511



Honeycomb
Belkis 1: 953521
Belkis 2: 953522
Belkis 5: 953525

EMFA



BELKIS 1

ACRYLIC APPLIQUES
Class I IP55 IK08

Available in any of these RAL colors

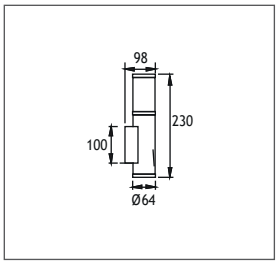
7004 7016 9005 9016 6002 1015





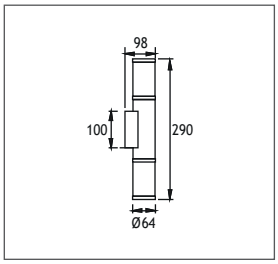
Voltage : 240 VAC with integrated driver
Diffuser : Acrylic Pipe
Transformer : Electronic
Cable : Potted 1 m 3x1 H03 VV-F

One Way

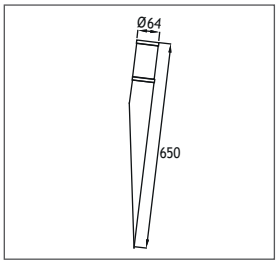
Power	Lampholder	Code No
COMPACT FLUO. 13W	G24 q - 1	293301

Two Way

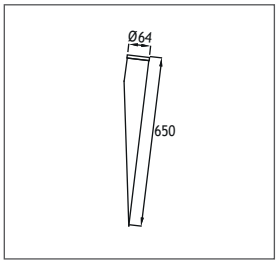
Power	Lampholder	Code No
COMPACT FLUO. 2x 13W	2x G24 q - 1	293401

Torch Acrylic

Power	Lampholder	Code No
COMPACT FLUO. 13W	G24 q - 1	293201

Torch Acrylic

Power	Lampholder	Code No
50W HALOGEN	Gu 5,3	293251



SQUARE

APPLIQUES
Class I IP65 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

The Square Applique series consists of a range of LED, metal halide and halogen sources to deliver the desired light effect to facades and columns. The series is made of die cast aluminium and extrusion aluminium painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.





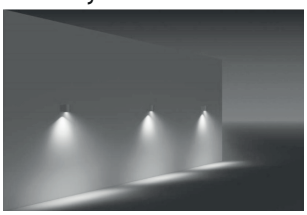




Body
Die cast aluminium
Cover
Die cast aluminium
Paint
Electrostatic powder
Bracket
Die cast aluminium
Diffusers
Tempered Glass
Gaskets
Silicone
Connection
IP connection box

“Customization” is EMFA’s standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

One Way





LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

SQUARE

APPLIQUES
Class I IP65 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



Power LEDs

Voltage : 240 VAC with integrated driver (12-24 VDC on request)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

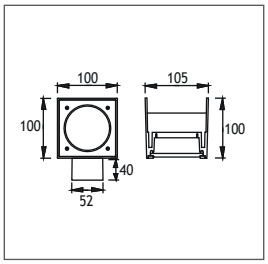
CRI : >80 or >90

Cable : -

Single color LED options upon request are ;
Blue Amber Green Red

Clear Glass with Lens

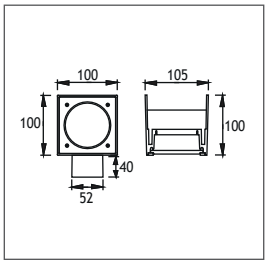




Power	Kelvin	Real Lumen Output	Lens	Code No
6W	2700 K	570 lm	10°,25°,40°	434024
6W	3000 K	570 lm	10°,25°,40°	434021
6W	4000 K	582 lm	10°,25°,40°	434022
6W	6000 K	591 lm	10°,25°,40°	434023

Frosted Glass

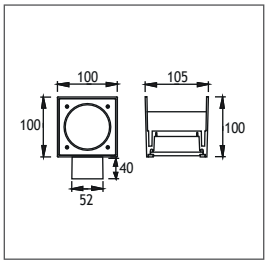




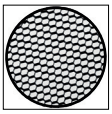
Power	Kelvin	Real Lumen Output	Lens	Code No
6W	2700 K	570 lm	10°,25°,40°	434013
6W	3000 K	570 lm	10°,25°,40°	434011
6W	4000 K	582 lm	10°,25°,40°	434012
6W	6000 K	591 lm	10°,25°,40°	434014

Dot





Power	Kelvin	Real Lumen Output	Lens	Code No
6W	2700 K	570 lm	10°,25°,40°	434003
6W	3000 K	570 lm	10°,25°,40°	434001
6W	4000 K	582 lm	10°,25°,40°	434002
6W	6000 K	591 lm	10°,25°,40°	434004



Honeycomb
Code No: 953523

EMFA

PEDESA

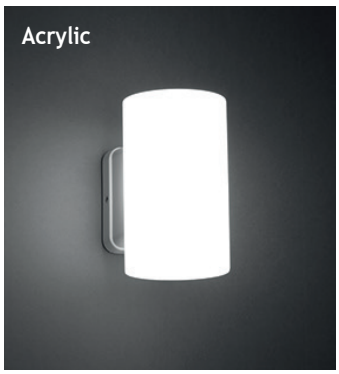
TWO WAY LED APPLIQUES
Class I IP65

Available in any of these RAL colors



Body
Aluminium profile
Paint
Electrostatic powder
Bracket
Die Cast Aluminium
Diffusers
Acrylic
Gaskets
Silicone
Connection
IP connection box



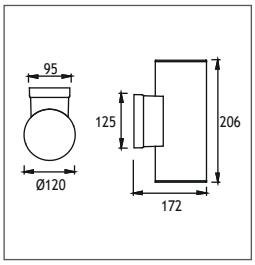


Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Acrylic
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

Round





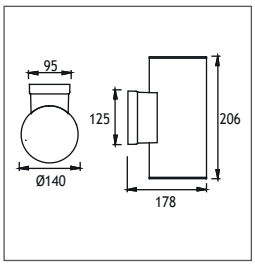


Power	Kelvin	Real Lumen Output	Code No Aluminium	Code No Acrylic
11W	2700 K	1045 lm	504003	504023
11W	3000 K	1045 lm	504001	504021
11W	4000 K	1065 lm	504002	504022
11W	6000 K	1089 lm	504004	504024

Round



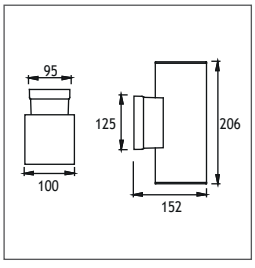




Power	Kelvin	Real Lumen Output	Code No Aluminium	Code No Acrylic
11W	2700 K	1045 lm	504013	504033
11W	3000 K	1045 lm	504011	504031
11W	4000 K	1065 lm	504012	504032
11W	6000 K	1089 lm	504014	504034

Square





Power	Kelvin	Real Lumen Output	Code No Aluminium
11W	2700 K	1045 lm	504043
11W	3000 K	1045 lm	504041
11W	4000 K	1065 lm	504042
11W	6000 K	1089 lm	504044

SATURN

APPLIQUES
Class I IP65 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

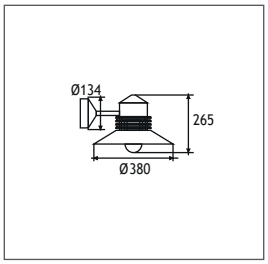


Voltage : 240V A.C with integrated driver
Diffuser : Glass
Transformer : Electronic
Cable : Potted 1m 3x1 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

Saturn 1

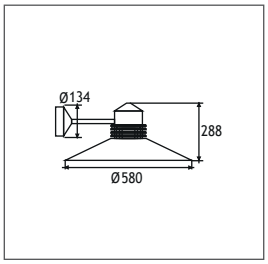




Power	Lampholder	Code No
ELECTRONIC FLUO. DEL 23W	E27	525101

Saturn 2

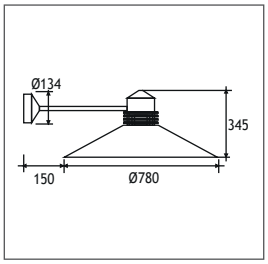




Power	Lampholder	Code No
ELECTRONIC FLUO. DEL 23W	E27	525201

Saturn 3





Power	Lampholder	Code No
ELECTRONIC FLUO. DEL 23W	E27	525301

EMFA

Spots





DARA LED SPOTS
Class I IP65 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

The Dara Spot series has an LED source to deliver the desired light effect to facades, columns,bridges, monuments, signs, and trees. The series is made of die cast aluminium and painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment (grey, anthracite, black, white, green and beige). The spots can be mounted on surfaces, in the ground or concrete with a picket, or on a pole with the addition of a simpleadaptor. Once installed, the special joint system allows for 100° horizontal and 180° vertical adjustment.

The LEDs used come in 3 different tones of white (2700K, 3000K, 4000K) Several lenses from 10 to 30 degrees are available to choose from to achieve the desired the light effect.

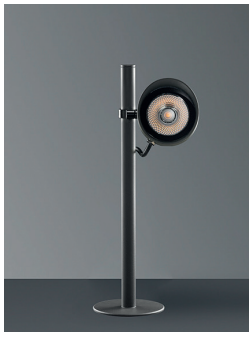
Body
Die cast aluminium
Paint
Electrostatic powder
Pipe
Aluminium Profile
Gaskets
Silicone
Diffusers
Tempered Glass

"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



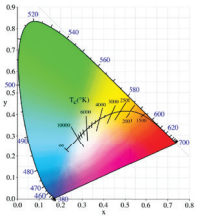












LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

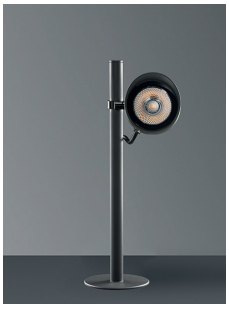
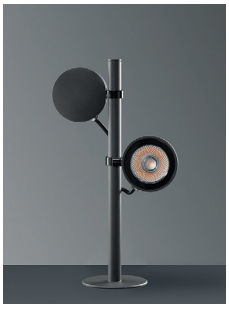
Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

DARA

LED SPOTS
Class I IP65 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015


COB LEDs

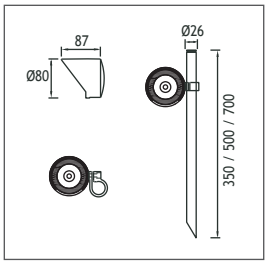
Voltage : 12V - 24V (240V A.C with integrated driver)

Diffuser : Clear Glass 4 mm
(Frosted Glass on request)

CRI : >80 or >90

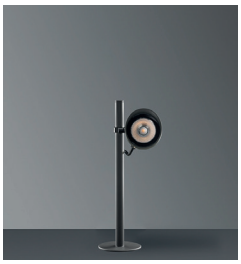
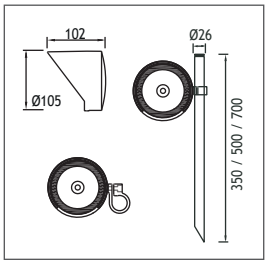
Cable : Potted 1m 3x1 H03 VV-F

DARA 2

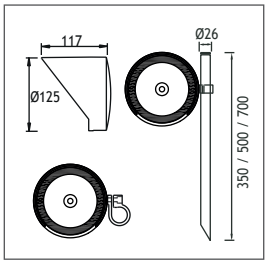
Height	Power	Kelvin	Real Lumen Output	Lens	Code No Single	Code No Twin
350mm	6W	2700/3000K	570 lm	10°,20°,30°	553001	554001
350mm	6W	4000 K	590 lm	10°,20°,30°	553002	554002
500mm	6W	2700/3000K	570 lm	10°,20°,30°	553101	554101
500mm	6W	4000 K	590 lm	10°,20°,30°	553102	554102
700mm	6W	2700/3000K	570 lm	10°,20°,30°	553201	554201
700mm	6W	4000 K	590 lm	10°,20°,30°	553202	554202

DARA 3

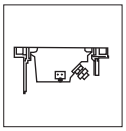



Height	Power	Kelvin	Real Lumen Output	Lens	Code No Single	Code No Twin
350mm	11W	2700/3000K	1045 lm	10°,20°,30°	555001	556001
350mm	11W	4000 K	1070 lm	10°,20°,30°	555002	556002
500mm	11W	2700/3000K	1045 lm	10°,20°,30°	555101	556101
500mm	11W	4000 K	1070 lm	10°,20°,30°	555102	556102
700mm	11W	2700/3000K	1045 lm	10°,20°,30°	555201	556201
700mm	11W	4000 K	1070 lm	10°,20°,30°	555202	556202

DARA 4

Height	Power	Kelvin	Real Lumen Output	Lens	Code No Single	Code No Twin
350mm	16W	2700/3000K	1520 lm	10°,20°,30°	557001	558001
350mm	16W	4000 K	1590 lm	10°,20°,30°	557002	558002
500mm	16W	2700/3000K	1520 lm	10°,20°,30°	557101	558101
500mm	16W	4000 K	1590 lm	10°,20°,30°	557102	558102
700mm	16W	2700/3000K	1520 lm	10°,20°,30°	557201	558201
700mm	16W	4000 K	1590 lm	10°,20°,30°	557202	558202



For Dara Recessing Tube
Internal Driver
Code No: 953553



For Dara Picket
External Driver
Code No: 953552



Honeycomb
Dara 2 : 953551
Dara 3 : 953561
Dara 4 : 953571

EMFA

SQUARE MINI LED SPOT
Class I IP67 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



Body
Die cast aluminium
Paint
Electrostatic powder
Gaskets
Silicone
Diffusers
Tempered Glass



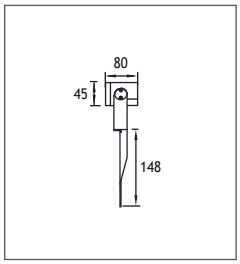


Power LED or COB LEDs

Voltage : 240 VAC with integrated driver
(12-24 VDC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 4 mm (Frosted Glass on request)
Cable : Potted 1m 3x1 H03 VV-F

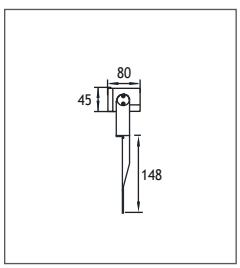
Single color LED options upon request are ;
Blue Amber Green Red





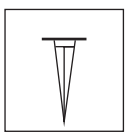
Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	438004
1W LED	3000 K	95 lm	10°,25°,40°	438001
1W LED	4000 K	97 lm	10°,25°,40°	438002
1W LED	6000 K	99 lm	10°,25°,40°	438003
3W LED	2700 K	285 lm	10°,25°,40°	438014
3W LED	3000 K	285 lm	10°,25°,40°	438011
3W LED	4000 K	290 lm	10°,25°,40°	438012
3W LED	6000 K	296 lm	10°,25°,40°	438013



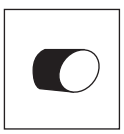


12-24V Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	438024
6W LED	3000 K	570 lm	10°,25°,40°	438021
6W LED	4000 K	580 lm	10°,25°,40°	438022
6W LED	6000 K	592 lm	10°,25°,40°	438023

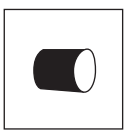
12V - 24V (240V A.C with external driver)



Visor
Code No: 953712



Cylinder Visor
Code No: 953713



Honeycomb
Code No: 953714



Picket
Code No: 953711

SQUARE

LED SPOT WITH TIR LENS
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

The Square Spot series consists of a range of LED, metal halide, fluorescent and halogen sources to deliver the desired light effect to facades, columns, bridges, monuments, signs, and trees. The series is made of die cast aluminium and painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment (grey, anthracite, black, white, green and beige). The spots can be mounted on surfaces, in the ground or concrete with a picket, or on a pole with the addition of a simple adaptor. Two adaptors are available for two sizes of poles. Once installed, the special joint system allows for 100° horizontal and 180° vertical adjustment. The gearboxes are either filled with cast resin and have a pre-potted cable for IP67. The LEDS used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 10 to 30 degrees are available to choose from to achieve the desired the light effect.



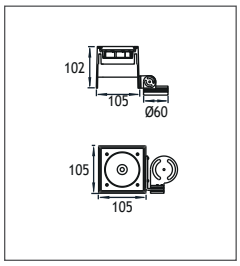
Body
Die cast aluminium
Paint
Electrostatic powder
Gaskets
Silicone
Diffusers
Tempered Glass

Power LED or COB LEDs

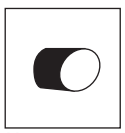
Voltage : 240 VAC with integrated driver
(12-24 VDC on request)
Diffuser : Clear Glass 4 mm (Frosted Glass on request)
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F

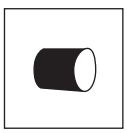
Single color LED options upon request are ;
Blue Amber Green Red





Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	434103
6W LED	3000 K	570 lm	10°,25°,40°	434101
6W LED	4000 K	580 lm	10°,25°,40°	434102
6W LED	6000 K	592 lm	10°,25°,40°	434104
12W LED	2700 K	1140 lm	10°,25°,40°	434113
12W LED	3000 K	1140 lm	10°,25°,40°	434111
12W LED	4000 K	1185 lm	10°,25°,40°	434112
12W LED	6000 K	1192 lm	10°,25°,40°	434114


Visor
Code No: 953911


Cylinder Visor
Code No: 953912


Honeycomb
Code No: 953931


Picket
Code No: 953901

EMFA





BELKIS

LED SPOTS
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

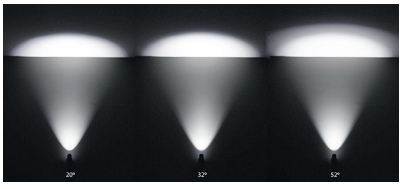
The Belkis Spot series consists of a range of LED, metal halide, fluorescent and halogen sources to deliver the desired light effect to facades, columns, bridges, monuments, signs, and trees. The series is made of die cast aluminium and painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment (grey, anthracite, black, white, green and beige). The spots can be mounted on surfaces, in the ground or concrete with a picket, or on a pole with the addition of a simple adaptor. Two adaptors are available for two sizes of poles. Once installed, the special joint system allows for 100° horizontal and 180° vertical adjustment. The gearboxes are either filled with cast resin and have a pre-potted cable for IP67, or have a stainless steel cover and cable glands for IP55. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.

Body
Die cast aluminium
Paint
Electrostatic powder
Gearbox Cover
Stainless steel
Gaskets
Silicone
Diffusers
Tempered Glass

“Customization” is EMFA’s standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.














LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50ºC. The LEDs are mounted on metal core pcbs, which are mounted to the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

BELKIS MINI

LED SPOT
LED DRIVER IN HADE
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015





POWER LED or COB LED

Voltage : 240V A.C with integrated driver (12V - 24V AC or DC on request)

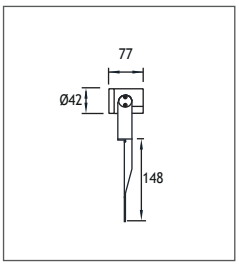
Lens : 10°, 25° or 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 2m 3x0,75 H03 VV-F

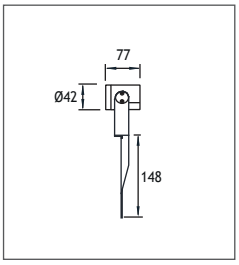
Single color LED options upon request are ;
Blue Amber Green Red





Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	297104
1W LED	3000 K	95 lm	10°,25°,40°	297101
1W LED	4000 K	97 lm	10°,25°,40°	297102
1W LED	6000 K	99 lm	10°,25°,40°	297103
3W LED	2700 K	285 lm	10°,25°,40°	297114
3W LED	3000 K	285 lm	10°,25°,40°	297111
3W LED	4000 K	290 lm	10°,25°,40°	297112
3W LED	6000 K	296 lm	10°,25°,40°	297113

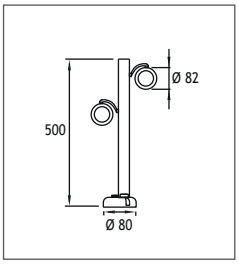




Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	297124
6W LED	3000 K	570 lm	10°,25°,40°	297121
6W LED	4000 K	585 lm	10°,25°,40°	297122
6W LED	6000 K	592 lm	10°,25°,40°	297123

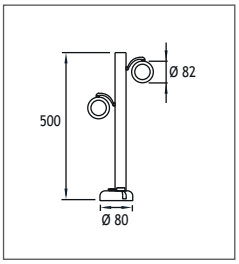
12V - 24V (240V A.C with external driver)





Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	297134
1W LED	3000 K	95 lm	10°,25°,40°	297131
1W LED	4000 K	97 lm	10°,25°,40°	297132
1W LED	6000 K	99 lm	10°,25°,40°	297133
3W LED	2700 K	285 lm	10°,25°,40°	297144
3W LED	3000 K	285 lm	10°,25°,40°	297141
3W LED	4000 K	290 lm	10°,25°,40°	297142
3W LED	6000 K	296 lm	10°,25°,40°	297143





Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	297154
6W LED	3000 K	570 lm	10°,25°,40°	297151
6W LED	4000 K	585 lm	10°,25°,40°	297152
6W LED	6000 K	592 lm	10°,25°,40°	297153

12V - 24V (240V A.C with external driver)

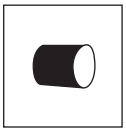
For Belkıs Mini



Picket
Code No: 953711



Visor
Code No: 953712



Cylinder Visor
Code No: 953713



Honeycomb
Code No: 953714



Clamp
Code No: 953715



BELKIS 1

LED SPOT
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015





POWER LED or COB LED

Voltage : 240V A.C with integrated driver (12V - 24V AC or DC on request)

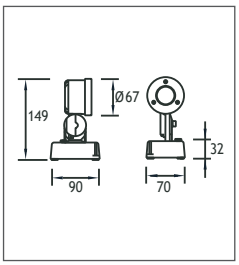
Lens : 10°, 25° or 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 2m 3x0,75 H03 VV-F

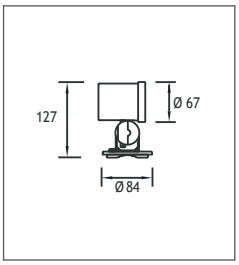
Single color LED options upon request are ;
Blue Amber Green Red





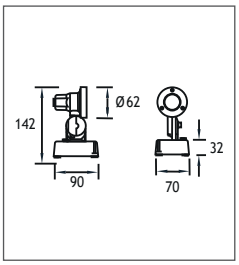
Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	330212
1W LED	3000 K	95 lm	10°,25°,40°	330211
1W LED	4000 K	97 lm	10°,25°,40°	330216
1W LED	6000 K	99 lm	10°,25°,40°	330217
3W LED	2700 K	285 lm	10°,25°,40°	330224
3W LED	3000 K	285 lm	10°,25°,40°	330221
3W LED	4000 K	290 lm	10°,25°,40°	330222
3W LED	6000 K	296 lm	10°,25°,40°	330223





Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	330202
1W LED	3000 K	95 lm	10°,25°,40°	330201
1W LED	4000 K	97 lm	10°,25°,40°	330206
1W LED	6000 K	99 lm	10°,25°,40°	330207
3W LED	2700 K	285 lm	10°,25°,40°	330254
3W LED	3000 K	285 lm	10°,25°,40°	330251
3W LED	4000 K	290 lm	10°,25°,40°	330252
3W LED	6000 K	296 lm	10°,25°,40°	330253

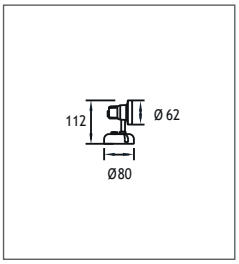




Power	Lampholder	Lens	Code No
20W HALOGEN	Gu4	10°,38°	330121

12V - 24V (240V A.C with external driver)





Power	Lampholder	Lens	Code No
20W HALOGEN	Gu4	10°,38°	330101

12V - 24V (240V A.C with external driver)

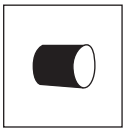
For Belkis 1



Picket
Code No: 953805



Visor
Code No: 953531



Cylinder Visor
Code No: 953581



Honeycomb
Code No: 953521



Clamp
Code No: 953715


GLORIA
SPORTS ARENA

BELKIS 2 LED SPOT
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015





POWER LED or COB LED

Voltage : 240V A.C with integrated driver (12V - 24V AC or DC on request)

Lens : 10°, 25° or 40°

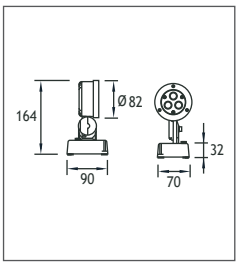
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 2m 3x0,75 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

Power LEDs Driver in Base

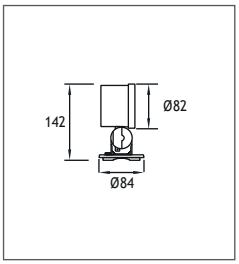




Power	Kelvin	Real Lumen Output	Lens	Code No
3W LED	2700 K	285 lm	10°,25°,40°	331212
3W LED	3000 K	285 lm	10°,25°,40°	331211
3W LED	4000 K	290 lm	10°,25°,40°	331216
3W LED	6000 K	296 lm	10°,25°,40°	331217
9W LED	2700 K	855 lm	10°,25°,40°	331234
9W LED	3000 K	855 lm	10°,25°,40°	331231
9W LED	4000 K	872 lm	10°,25°,40°	331232
9W LED	6000 K	890 lm	10°,25°,40°	331233
9W LED	RGB		25°,40°	331221

Power LEDs Driver in Head

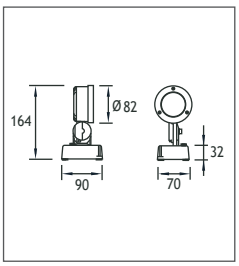




Power	Kelvin	Real Lumen Output	Lens	Code No
3W LED	2700 K	285 lm	10°,25°,40°	331202
3W LED	3000 K	285 lm	10°,25°,40°	331201
3W LED	4000 K	290 lm	10°,25°,40°	331206
3W LED	6000 K	296 lm	10°,25°,40°	331207

COB LED Driver in Base

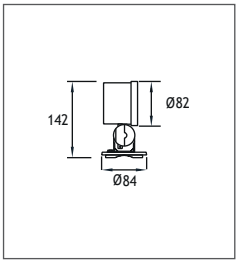




Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,20°,30°	331243
6W LED	3000 K	570 lm	10°,20°,30°	121001
6W LED	4000 K	581 lm	10°,20°,30°	121002
6W LED	6000 K	592 lm	10°,20°,30°	331244
11W LED	2700 K	1045 lm	10°,20°,30°	331253
11W LED	3000 K	1045 lm	10°,20°,30°	121011
11W LED	4000 K	1065 lm	10°,20°,30°	121012
11W LED	6000 K	1087 lm	10°,20°,30°	331254

COB LED Driver in Head





Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,20°,30°	331263
6W LED	3000 K	570 lm	10°,20°,30°	121001
6W LED	4000 K	581 lm	10°,20°,30°	121002
6W LED	6000 K	592 lm	10°,20°,30°	331264

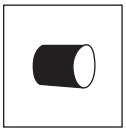
For Belkis 2



Picket
Code No: 953825



Visor
Code No: 953532



Cylinder Visor
Code No: 953582



Honeycomb
Code No: 953522



Clamp
Code No: 953715


GALATAPORT
CONNECT

BELKIS 2

HALOGEN SPOTS
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

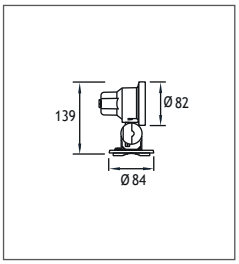




HALOGEN

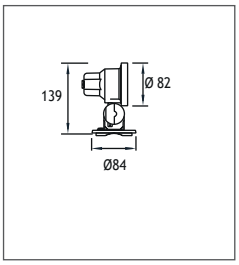
Lampholder : Gu10
Reflector : -
Diffuser : 8 mm Glass

BELKIS 2 WITH SIDE ARM

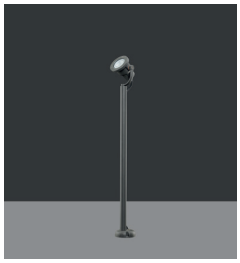
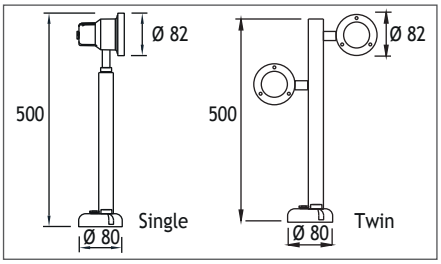
Power	Lampholder	Lens	Code No
35W, 50W HALOGEN	Gu 10	25°,50°	331121
12V - 24V (240V A.C with external driver)			

BELKIS 2 WITH CENTRAL ARM

Power	Lampholder	Lens	Code No
35W, 50W HALOGEN	Gu 10	25°,50°	331141
12V - 24V (240V A.C with external driver)			

HIGH SPOT

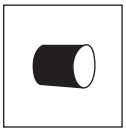



Power	Lampholder	Lens	Code No Single	Code No Twin
35W, 50W HALOGEN	Gu 10	25°,50°	331501	331601
240V A.C				

For Belkis 2


Picket
Code No: 953825


Visor
Code No: 953532


Cylinder Visor
Code No: 953582


Honeycomb
Code No: 953522


Clamp
Code No: 953715



BELKIS 3 LED SPOT
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



POWER LED or COB LED

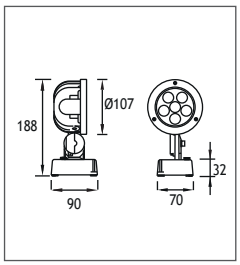
Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40° / (Mirror TIR Lens Options)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

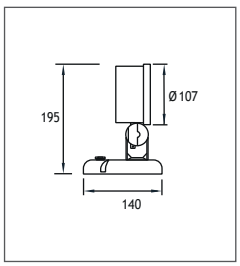
Cable : Potted 5m 3x0,75 H03 VV-F





Power	Kelvin	Real Lumen Output	Lens	Code No
3W LED	2700 K	570 lm	10°,25°,40°	331312
3W LED	3000 K	570 lm	10°,25°,40°	331311
3W LED	4000 K	581 lm	10°,25°,40°	331316
3W LED	6000 K	592 lm	10°,25°,40°	331317
18W LED	2700 K	1710 lm	10°,25°,40°	331334
18W LED	3000 K	1710 lm	10°,25°,40°	331331
18W LED	4000 K	1744 lm	10°,25°,40°	331332
18W LED	6000 K	1779 lm	10°,25°,40°	331333
18W LED	RGB		25°,40°	331321

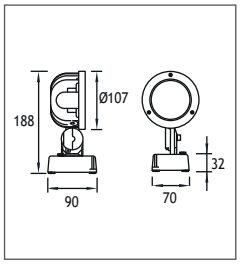




Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	331302
6W LED	3000 K	570 lm	10°,25°,40°	331301
6W LED	4000 K	581 lm	10°,25°,40°	331306
6W LED	6000 K	592 lm	10°,25°,40°	331307

TIR LENS





Power	Kelvin	Real Lumen Output	Lens	Code No
12W LED	2700 K	1140 lm	10°,20°,30°	331343
12W LED	3000 K	1140 lm	10°,20°,30°	121101
12W LED	4000 K	1162 lm	10°,20°,30°	121102
18W LED	2700 K	1710 lm	10°,20°,30°	331353
18W LED	3000 K	1710 lm	10°,20°,30°	121111
18W LED	4000 K	1744 lm	10°,20°,30°	121112

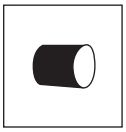
For Belkis 3



Picket
Code No: 953805



Visor
Code No: 953531



Cylinder Visor
Code No: 953583



Honeycomb
Code No: 953523



Clamp
Code No: 953715


RK-20

BELKIS 4 LED SPOT
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



POWER LED or COB LED

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

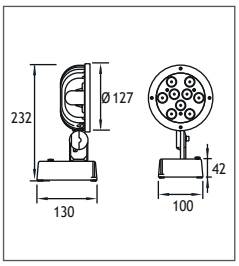
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5m 3x0,75 H03 VV-F

DRIVER IN BASE

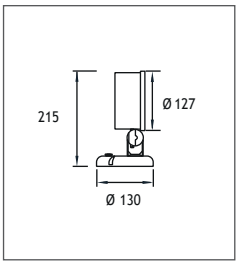




Power	Kelvin	Real Lumen Output	Lens	Code No
9W LED	2700 K	855 lm	10°,25°,40°	331412
9W LED	3000 K	855 lm	10°,25°,40°	331411
9W LED	4000 K	872 lm	10°,25°,40°	331416
9W LED	6000 K	890 lm	10°,25°,40°	331417
27W LED	2700 K	2560 lm	10°,25°,40°	331424
27W LED	3000 K	2560 lm	10°,25°,40°	331421
27W LED	4000 K	2610 lm	10°,25°,40°	331422
27W LED	6000 K	2670 lm	10°,25°,40°	331423

DRIVER IN HEAD



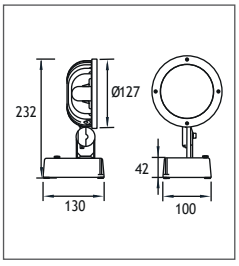


Power	Kelvin	Real Lumen Output	Lens	Code No
9W LED	2700 K	855 lm	10°,25°,40°	331402
9W LED	3000 K	855 lm	10°,25°,40°	331401
9W LED	4000 K	872 lm	10°,25°,40°	331406
9W LED	6000 K	890 lm	10°,25°,40°	331407

12V - 24V (240V A.C with external driver)

TIR LENS





Power	Kelvin	Real Lumen Output	Lens	Code No
25W LED	2700 K	2375 lm	10°,20°,30°	121203
25W LED	3000 K	2375 lm	10°,20°,30°	121201
25W LED	4000 K	2422 lm	10°,20°,30°	121202
32W LED	2700 K	3040 lm	10°,20°,30°	121213
32W LED	3000 K	3040 lm	10°,20°,30°	121211
32W LED	4000 K	3100 lm	10°,20°,30°	121212

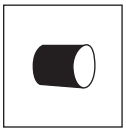
For Belkis 4



Picket Code No: 953805



Visor Code No: 953531



Cylinder Visor Code No: 953584



Honeycomb Code No: 953524



Clamp Code No: 953715



BELKIS 5 LED SPOT
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



POWER LED or COB LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

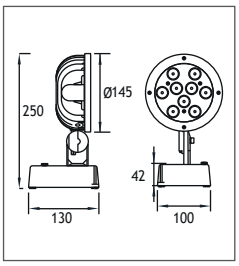
Lens : 10°, 25°, 40° / (Mirror TIR Lens Options)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5m 3x0,75 H03 VV-F

DRIVER IN BASE

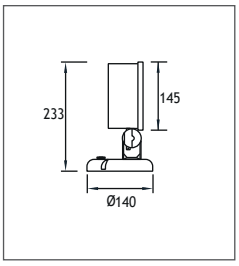




Power	Kelvin	Real Lumen Output	Lens	Code No
9W LED	2700 K	855 lm	10°,25°,40°	425632
9W LED	3000 K	855 lm	10°,25°,40°	425631
9W LED	4500 K	872 lm	10°,25°,40°	425636
9W LED	6000 K	890 lm	10°,25°,40°	425637
27W LED	2700 K	2560 lm	10°,25°,40°	425652
27W LED	3000 K	2560 lm	10°,25°,40°	425651
27W LED	4500 K	2670 lm	10°,25°,40°	425653
27W LED	RGB		10°,25°,40°	425641

DRIVER IN HEAD





Power	Kelvin	Real Lumen Output	Lens	Code No
9W LED	2700 K	855 lm	10°,25°,40°	425612
9W LED	3000 K	855 lm	10°,25°,40°	425611
9W LED	4500 K	872 lm	10°,25°,40°	425616
9W LED	6000 K	890 lm	10°,25°,40°	425617

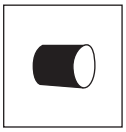
For Belkıs 5



Picket
Code No: 953805



Visor
Code No: 953531



Cylinder Visor
Code No: 953585



Honeycomb
Code No: 953525



Clamp
Code No: 953715

BELKIS 5

HALOGEN SPOT
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



HALOGEN

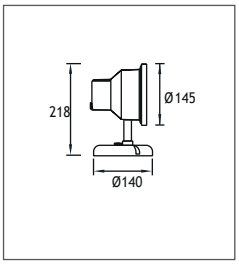
Lampholder : E27

Reflector : -

Diffuser : 8 mm Clear Glass

WITH SIDE ARM



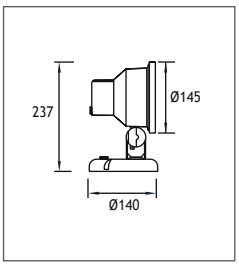


Power	Lampholder	Lens	Code No
PAR 30 75W	E27	10°,30°	332121

12V - 24V (240V A.C with external driver)

WITH CENTRAL ARM





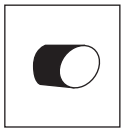
Power	Lampholder	Lens	Code No
PAR 30 75W	E27	10°,30°	332131

12V - 24V (240V A.C with external driver)

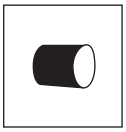
For Belkıs 5



Picket
Code No: 953805



Visor
Code No: 953531



Cylinder Visor
Code No: 953585

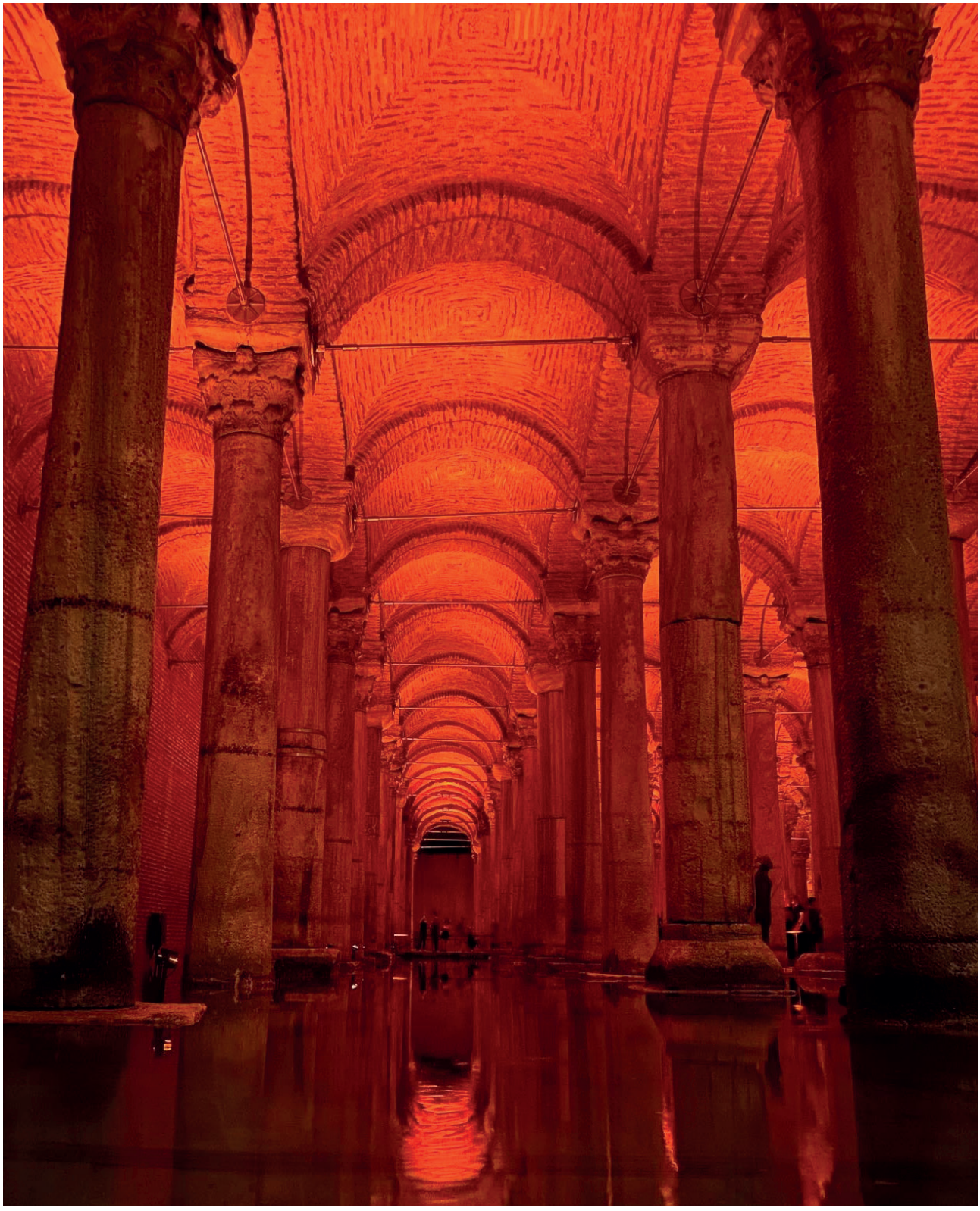


Honeycomb
Code No: 953525



Clamp
Code No: 953715

EMFA



BELKIS 5 SPOTS
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015





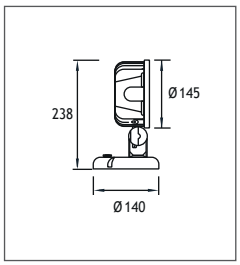


HALOGEN

Lampholder : Gx 53, PGJ 5, G 8.5
Diffuser : Clear Glass 8 mm
Gear : Electronic (in lamp)
Cable : Potted 5m 3x0,75 H03 VV-F

SIDE ARM

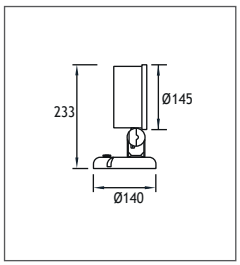




Power	Lampholder	Code No
11W COMPACT FLUO AR111	Gx 53	332414
12V - 24V (240V A.C with external driver)		

CENTRAL METAL HALIDE

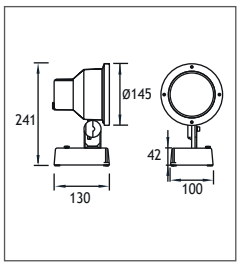




Power	Lampholder	Reflector	Code No
METAL HALIDE 20W	PGJ 5	25°	332151
12V - 24V (240V A.C with external driver)			

WITH GEARBOX

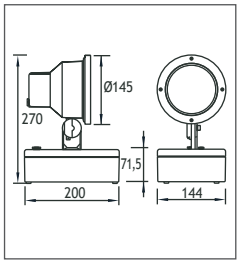




Power	Lampholder	Lens	Code No
35W METAL HALIDE HALOGEN	PGJ 5	9°,17°,25°	332181
70W METAL HALIDE HALOGEN	PGJ 5	9°,17°,25°	332191
35W METAL HALIDE CDMR-111 HALOGEN	PGJ 5	9°,17°,25°	332201
70W METAL HALIDE CDMR-111 HALOGEN	PGJ 5	9°,17°,25°	332211
12V - 24V (240V A.C with external driver)			

WITH GEARBOX





Power	Lampholder	Lens	Code No
35W METAL HALIDE HALOGEN	G 8.5	9°,17°,25°	332221
70W METAL HALIDE HALOGEN	G 8.5	9°,17°,25°	332231
35W METAL HALIDE CDMR-111 HALOGEN	G 8.5	9°,17°,25°	332241
70W METAL HALIDE CDMR-111 HALOGEN	G 8.5	9°,17°,25°	332251
12V - 24V (240V A.C with external driver)			

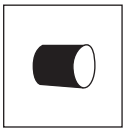
For Belkis 5



Picket
Code No: 953805



Visor
Code No: 953531



Cylinder Visor
Code No: 953585



Honeycomb
Code No: 953525



Clamp
Code No: 953715

EMFA


VOLKSWAGEN
ARENA

BELKIS 6 SPOTS WITH GEARBOX
Class I IP67 IK10

Available in any of these RAL colors

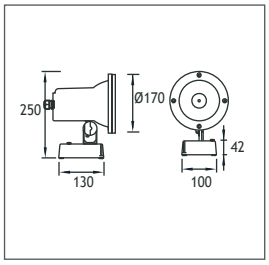
7004 7016 9005 9016 6002 1015



HALOGEN

Lampholder : G12
Reflector : 30°,42°
Diffuser : Clear Glass
Gear : Electronic

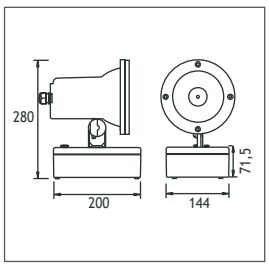




Power	Lampholder	Lens	Code No
35W METAL HALIDE HALOGEN	G12	30°,42°	138201
70W METAL HALIDE HALOGEN	G12	30°,42°	138211

12V - 24V (240V A.C with external driver)





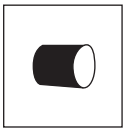
Power	Lampholder	Lens	Code No
150W METAL HALIDE HALOGEN	G12	30°,42°	138221

12V - 24V (240V A.C with external driver)

For Belkis 6


Picket
Code No: 953805


Visor
Code No: 953531


Cylinder Visor
Code No: 953586


Honeycomb
Code No: 953525


Clamp
Code No: 953715

EMFA

RESPOT 3

SPOT WITH RECESSED GEARBOX
Class I IP67 IK10

Available in any of these RAL colors

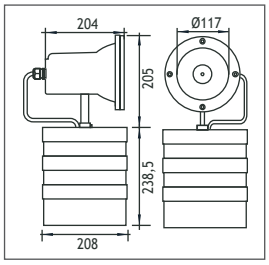
7004 7016 9005 9016 6002 1015



HALOGEN

Lampholder : G12, Gx8.5
Reflector : 30˚,42˚
Diffuser : Clear Glass

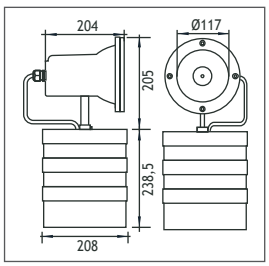




Power	Lampholder	Lens	Code No
35W METAL HALIDE HALOGEN	G12	30˚,42˚	137101
70W METAL HALIDE HALOGEN	G12	30˚,42˚	137111

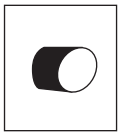
12V - 24V (240V A.C with external driver)





Power	Lampholder	Lens	Code No
35W METAL HALIDE CDM-R111 HALOGEN	Gx8.5	30˚,42˚	137121
70W METAL HALIDE CDM-R111 HALOGEN	Gx8.5	30˚,42˚	137131

12V - 24V (240V A.C with external driver)



For RESPOT 3
Visor
Code No: 953536

HARRAN LED SPOTS
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

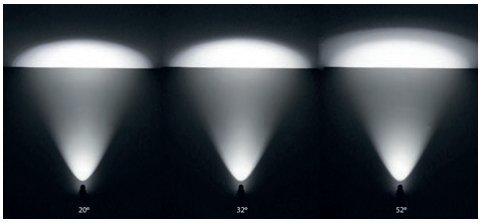
The Harran Spot series has an LED source to deliver the desired light effect to facades, columns,bridges, monuments, signs, and trees. The series is made of die cast aluminium and painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment (grey, anthracite, black, white, green and beige). The spots can be mounted on surfaces, in the ground or concrete with a picket, or on a pole with the addition of a simpleadaptor. Once installed, the special joint system allows for 100° horizontal and 180° vertical adjustment.

The LEDs used come in 3 different tones of white (2700K, 3000K, 4000K) Several lenses from 10 to 30 degrees are available to choose from to achieve the desired the light effect.



Body
Die cast aluminium
Paint
Electrostatic powder
Gearbox Cover
Die cast aluminium
Gaskets
Silicone
Diffusers
Tempered Glass

"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.







LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50ºC. The LEDs are mounted on metal core pcbs, which are mounted to the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

HARRAN

LED SPOTS
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



COB LED

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

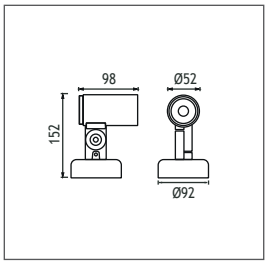
Lens : 10°, 25°, 40° or 60°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 2 m 3x1 H03 VV-F

HARRAN MINI

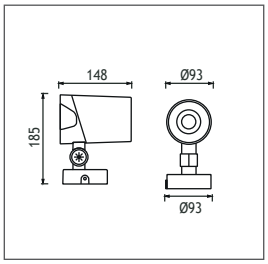




Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°,60°	155001
6W LED	3000 K	570 lm	10°,25°,40°,60°	155002
6W LED	4500 K	581 lm	10°,25°,40°,60°	155003
6W LED	6000 K	592 lm	10°,25°,40°,60°	155004

HARRAN 2

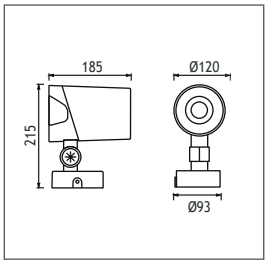




Power	Kelvin	Real Lumen Output	Lens	Code No
18W LED	2700 K	1710 lm	10°,25°,40°,60°	155101
18W LED	3000 K	1710 lm	10°,25°,40°,60°	155102
18W LED	4500 K	1744 lm	10°,25°,40°,60°	155103
18W LED	6000 K	1779 lm	10°,25°,40°,60°	155104

HARRAN 3

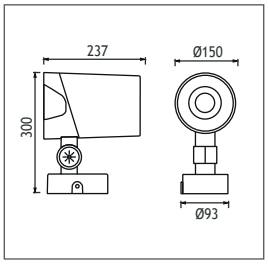




Power	Kelvin	Real Lumen Output	Lens	Code No
36W LED	2700 K	3420 lm	10°,25°,40°,60°	155201
36W LED	3000 K	3420 lm	10°,25°,40°,60°	155202
36W LED	4500 K	3480 lm	10°,25°,40°,60°	155203
36W LED	6000 K	3550 lm	10°,25°,40°,60°	155204

HARRAN 4





Power	Kelvin	Real Lumen Output	Lens	Code No
70W LED	2700 K	6650 lm	10°,25°,40°,60°	155301
70W LED	3000 K	6650 lm	10°,25°,40°,60°	155302
70W LED	4500 K	6780 lm	10°,25°,40°,60°	155303
70W LED	6000 K	6920 lm	10°,25°,40°,60°	155304

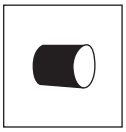
For Harran



Picket
Code No: 953941



Visor
Code No: 953942



Cylinder Visor
Code No: 953943



Honeycomb
Code No: 953944



Clamp
Code No: 953945

EDESA

LED SPOTS
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

The Edessa Spot series has an LED source to deliver the desired light effect to facades, columns, bridges, monuments, signs, and trees. The series is made of die-cast aluminium and painted with electrostatic powder paint. Six standard RAL colors can be chosen to adapt the spots to their environment (grey, anthracite, black, white, green, and beige). The spots can be mounted on surfaces, in the ground or concrete with a picket, or on a pole with the addition of a simple adaptor. Once installed, the special joint system allows for 100° horizontal and 180° vertical adjustment.

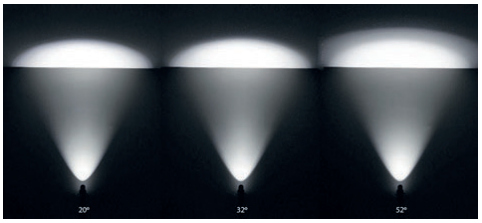
The LEDs used come in three different tones of white (2700K, 3000K, 4000K). Several lenses from 10° to 30° are available to choose from to achieve the desired light effect.

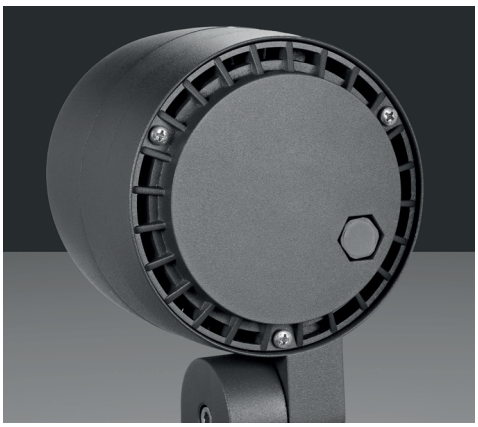


Body
Die cast aluminium
Paint
Electrostatic powder
Gearbox Cover
Die cast aluminium
Gaskets
Silicone
Diffusers
Tempered Glass

"Customization" is EMFA's standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.





LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

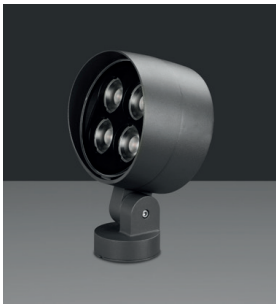
All fixtures are designed to withstand ambient temperatures of at least 50ºC. The LEDs are mounted on metal core pcbs, which are mounted to the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

EDESA

LED SPOTS
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



COB LED

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

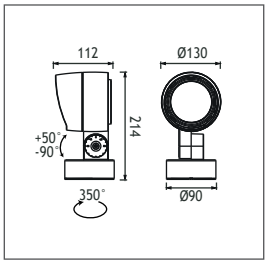
Lens : 10°, 25°, 40° or 60°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 2 m 3x1 H03 VV-F

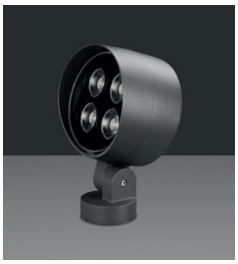
EDESSA 2

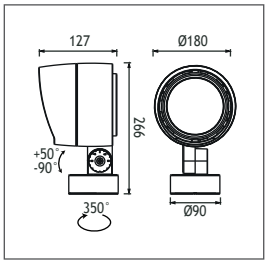




Power	Kelvin	Real Lumen Output	Lens	Code No
18W LED	2700 K	1710 lm	10°,25°,40°,60°	188001
18W LED	3000 K	1710 lm	10°,25°,40°,60°	188002
18W LED	4500 K	1744 lm	10°,25°,40°,60°	188003
18W LED	6000 K	1779 lm	10°,25°,40°,60°	188004

EDESSA 3





Power	Kelvin	Real Lumen Output	Lens	Code No
36W LED	2700 K	3420 lm	10°,25°,40°,60°	188101
36W LED	3000 K	3420 lm	10°,25°,40°,60°	188102
36W LED	4500 K	3480 lm	10°,25°,40°,60°	188103
36W LED	6000 K	3550 lm	10°,25°,40°,60°	188104

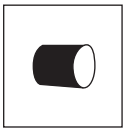
For Edessa



Picket
Code No: 953951



Visor
Code No: 953952



Cylinder Visor
Code No: 953953



Honeycomb
Code No: 953954



Clamp
Code No: 953955


Bollards

TRION LED BOLLARDS
Class I IP65 IK10

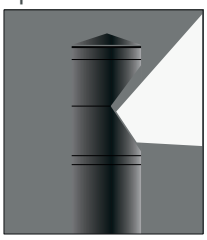
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

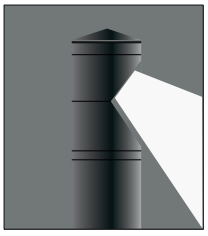
EMFA's Trion series combines a die-cast aluminium head with an extrusion aluminium pipe to provide a sturdy, outdoor bollard/pole. The fixture is designed to light pathways, landscapes and open spaces. The TRION bollard can give light both in the downward and upward direction. The light is very directional and honeycomb louvers can be used to avoid extra glare. The head and pipe are connected by a hidden screw within the pipe. The head contains LEDs that can be powered up to 27W. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleeve anchors for mounting onto existing concrete.



Up



Down



Head
Die cast aluminium
With Screwless lock system
Outer Asymmetrical Grill
Die cast aluminium
Diffuser
Tempered Glass
Pipe
Extrusion aluminium
Paint
Electrostatic powder



Trion 1 Single



Trion 1 Twin



Trion 2 Single



Trion 2 Twin



EMFA

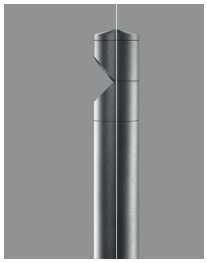
TRION LED BOLLARDS IP65

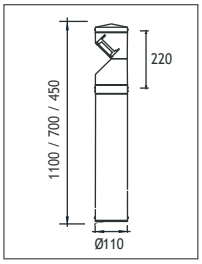
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Led : Power or COB LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Tempered Clear or Frosted Glass

Trion 1 Single

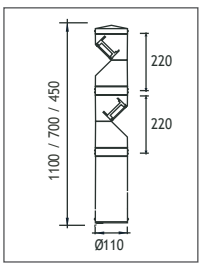




Power	Kelvin	Real Lumen Output	Lens	Code No 45 cm	70 cm	110 cm
6W LED	2700 K	570 lm	10°,25°,40°	171001	171101	171201
6W LED	3000 K	570 lm	10°,25°,40°	171002	171102	171202
6W LED	4500 K	581 lm	10°,25°,40°	171003	171103	171203
6W LED	6000 K	592 lm	10°,25°,40°	171004	171104	171204
11W LED	2700 K	1045 lm	10°,25°,40°	170011	170111	170211
11W LED	3000 K	1045 lm	10°,25°,40°	170012	170112	170212
11W LED	4500 K	1065 lm	10°,25°,40°	170013	170113	170213
11W LED	6000 K	1087 lm	10°,25°,40°	170014	170114	170214

Trion 1 Twin

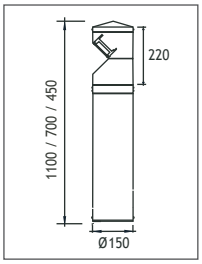




Power	Kelvin	Real Lumen Output	Lens	Code No 70 cm	90 cm	110 cm
6W LED	2700 K	570 lm	10°,25°,40°	172001	172101	172201
6W LED	3000 K	570 lm	10°,25°,40°	172002	172102	172202
6W LED	4500 K	581 lm	10°,25°,40°	172003	172103	172203
6W LED	6000 K	592 lm	10°,25°,40°	172004	172104	172204
11W LED	2700 K	1045 lm	10°,25°,40°	172011	172111	172211
11W LED	3000 K	1045 lm	10°,25°,40°	172012	172112	172212
11W LED	4500 K	1065 lm	10°,25°,40°	172013	172113	172213
11W LED	6000 K	1087 lm	10°,25°,40°	172014	172114	172214

Trion 2 Single

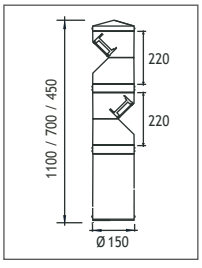




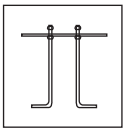
Power	Kelvin	Real Lumen Output	Lens	Code No 45 cm	70 cm	110 cm
11W LED	2700 K	1045 lm	10°,25°,40°	173001	173101	173201
11W LED	3000 K	1045 lm	10°,25°,40°	173002	173102	173202
11W LED	4500 K	1065 lm	10°,25°,40°	173003	173103	173203
11W LED	6000 K	1087 lm	10°,25°,40°	173004	173104	173204
24W LED	2700 K	2280 lm	10°,25°,40°	173011	173111	173211
24W LED	3000 K	2280 lm	10°,25°,40°	173012	173112	173212
24W LED	4500 K	2350 lm	10°,25°,40°	173013	173113	173213
24W LED	6000 K	2395 lm	10°,25°,40°	173014	173114	173214

Trion 2 Twin





Power	Kelvin	Real Lumen Output	Lens	Code No 70 cm	90 cm	110 cm
11W LED	2700 K	1045 lm	10°,25°,40°	174001	174101	174201
11W LED	3000 K	1045 lm	10°,25°,40°	174002	174102	174202
11W LED	4500 K	1065 lm	10°,25°,40°	174003	174103	174203
11W LED	6000 K	1087 lm	10°,25°,40°	174004	174104	174204
24W LED	2700 K	2280 lm	10°,25°,40°	174011	174111	174211
24W LED	3000 K	2280 lm	10°,25°,40°	174012	174112	174212
24W LED	4500 K	2350 lm	10°,25°,40°	174013	174113	174213
24W LED	6000 K	2395 lm	10°,25°,40°	174014	174114	174214



For Trion **Anchor** Code No: 953651

HARRAN MINI

LED BOLLARD
Class I IP65 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

EMFA's HARRAN Bollard series combines a die-cast aluminium head with an extrusion aluminium pipe to provide a sturdy, outdoor bollard. The fixture is designed to light pathways, landscapes and open spaces. The HARRAN Bollard gives light both in the downward and upward direction. The light is very directional. Visors and honeycomb louvers can be used to avoid extra glare. The head contains LEDs that can be powered up to 6W. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleeve anchors for mounting onto existing concrete.



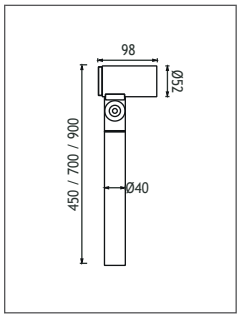




Body
Die cast aluminium
Paint
Electrostatic powder
Gearbox Cover
Stainless steel
Gaskets
Silicone
Diffusers
Tempered Glass

Harran Mini Single

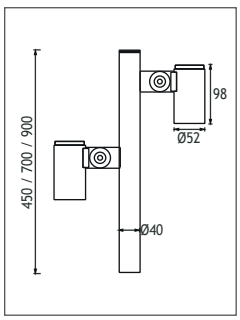




Power	Kelvin	Real Lumen Output	Lens	Code No 45 cm	70 cm	90 cm
6W LED	2700 K	570 lm	10°,25°,40°	175001	175101	175201
6W LED	3000 K	570 lm	10°,25°,40°	175002	175102	175202
6W LED	4500 K	581 lm	10°,25°,40°	175003	175103	175203
6W LED	6000 K	592 lm	10°,25°,40°	175004	175104	175204

Harran Mini Twin

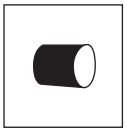




2xPower	Kelvin	Real Lumen Output	Lens	Code No 70 cm	90 cm	90 cm
6W LED	2700 K	570 lm	10°,25°,40°	176001	176101	176201
6W LED	3000 K	570 lm	10°,25°,40°	176002	176102	176202
6W LED	4500 K	581 lm	10°,25°,40°	176003	176103	176203
6W LED	6000 K	592 lm	10°,25°,40°	176004	176104	176204









For Harran

Picket
Code No: 953661

Visor
Code No: 953662

Cylinder Visor
Code No: 953663

Honeycomb
Code No: 953664

EMFA

LEON LED BOLLARD
Class I IP65

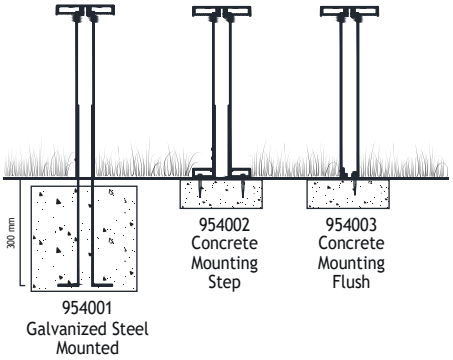
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

EMFA's Leon Bollard combines a die-cast aluminium head housing an LED unit with an extrusion aluminium pipe. The bollard is designed to light pathways, landscapes and open spaces. The Leon bollard gives light only in the downward direction. This avoids any kind of glare and light pollution. The head and pipe are connected by a hidden screw within the pipe. The head contains LEDs that can be powered up to 12W. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleave anchors for mounting onto existing concrete or a picket to mount into the earth.



Head
Die cast aluminium
Diffusers
Frosted polyamide 6.6
Pipe
Extrusion aluminium
Paint
Electrostatic powder



CIRCULAR LED

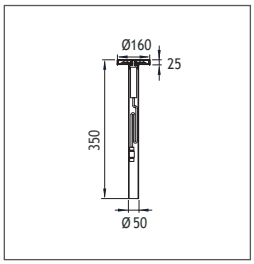
Led : Circular LEDs (6W or 12W)

Voltage : 240 VAC with integrated driver (12-24 VDC on request)

CRI : >80

350mm

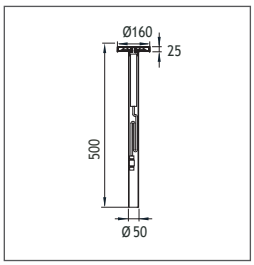




Power	Kelvin	Lumen Output	Code No
6W	2700 K	570 lm	177003
6W	3000 K	570 lm	177001
6W	4000 K	581 lm	177002
12W	2700 K	1140 lm	177013
12W	3000 K	1140 lm	177011
12W	4000 K	1162 lm	177012

500mm

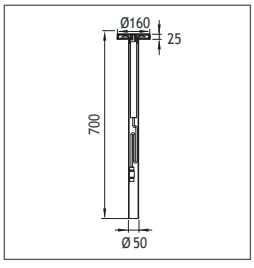




Power	Kelvin	Lumen Output	Code No
6W	2700 K	570 lm	177103
6W	3000 K	570 lm	177101
6W	4000 K	581 lm	177102
12W	2700 K	1140 lm	177113
12W	3000 K	1140 lm	177111
12W	4000 K	1162 lm	177112

700mm





Power	Kelvin	Lumen Output	Code No
6W	2700 K	570 lm	177203
6W	3000 K	570 lm	177201
6W	4000 K	581 lm	177202
12W	2700 K	1140 lm	177213
12W	3000 K	1140 lm	177211
12W	4000 K	1162 lm	177212



LEON WOOD

LED BOLLARD
Class I IP65

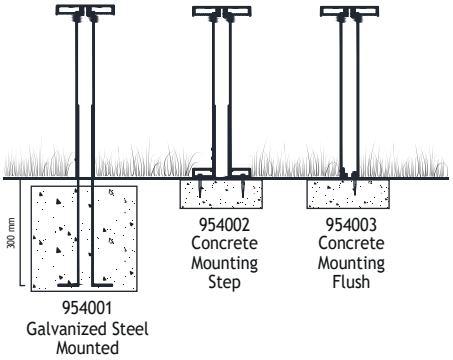
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Real wood is the preferred material of architects for cutting edge designs. Our LEON Wood bollard is made of IROKO wood with an incredibly smooth finish. The Wood Bollard can blend into the architecture of a building and mature together with its surroundings. The simple form of the Wood Bollard is emphasized with the light that comes out from the solid structure.



Head
Die cast aluminium & Wood
Diffusers
Frosted polyamide 6.6
Pipe
Wood



CIRCULAR LED

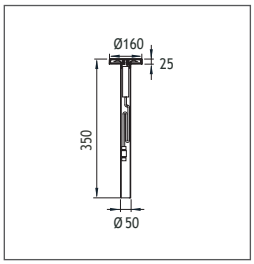
Led : Circular LEDs (6W or 12W)

Voltage : 240 VAC with integrated driver (12-24 VDC on request)

CRI : >80

350mm

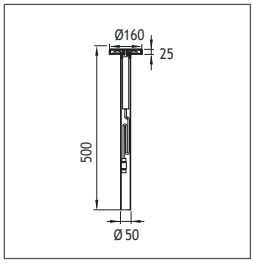




Power	Kelvin	Lumen Output	Code No
6W	2700 K	570 lm	189001
6W	3000 K	570 lm	189002
6W	4000 K	581 lm	189003
12W	2700 K	1140 lm	189011
12W	3000 K	1140 lm	189012
12W	4000 K	1162 lm	189013

500mm

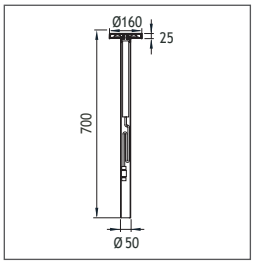




Power	Kelvin	Lumen Output	Code No
6W	2700 K	570 lm	189101
6W	3000 K	570 lm	189102
6W	4000 K	581 lm	189103
12W	2700 K	1140 lm	189111
12W	3000 K	1140 lm	189112
12W	4000 K	1162 lm	189113

700mm





Power	Kelvin	Lumen Output	Code No
6W	2700 K	570 lm	189201
6W	3000 K	570 lm	189202
6W	4000 K	581 lm	189203
12W	2700 K	1140 lm	189211
12W	3000 K	1140 lm	189212
12W	4000 K	1162 lm	189213

EMFA

LEON 2

LED BOLLARD
Fixed & Adjustable
Class I IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Head
Die Cast Aluminium
Diffusers
Frosted polyamide 6.6
Pipe
316L Stainless Steel
Paint
Electrostatic powder





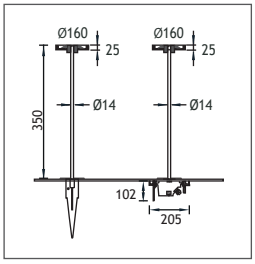
CIRCULAR LED

Led : Circular LEDs (6W or 12W)
Voltage : 12-24V External Driver
(12-24 VDC on request)
CRI : >80

350mm





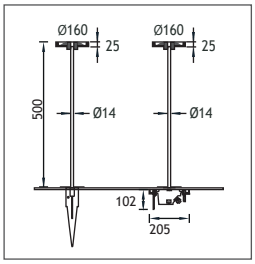


Power	Kelvin	Lumen Output	Code No Fixed	Code No Adjustable
6W	2700 K	720 lm	270003	270103
6W	3000 K	720 lm	270001	270101
6W	4000 K	790 lm	270002	270102
12W	2700 K	1380 lm	270013	270113
12W	3000 K	1380 lm	270011	270111
12W	4000 K	1380 lm	270012	270112

500mm





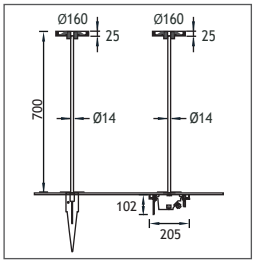


Power	Kelvin	Lumen Output	Code No Fixed	Code No Adjustable
6W	2700 K	720 lm	271003	271103
6W	3000 K	720 lm	271001	271101
6W	4000 K	790 lm	271002	271102
12W	2700 K	1380 lm	271013	271113
12W	3000 K	1380 lm	271011	271111
12W	4000 K	1380 lm	271012	271112

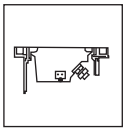
700mm







Power	Kelvin	Lumen Output	Code No Fixed	Code No Adjustable
6W	2700 K	720 lm	272003	272103
6W	3000 K	720 lm	272001	272101
6W	4000 K	790 lm	272002	272102
12W	2700 K	1380 lm	272013	272113
12W	3000 K	1380 lm	272011	272111
12W	4000 K	1380 lm	272012	272112





For LEON 2
Recessing Tube
Internal Driver
Code No: 953641

Picket
External Driver
Code No: 953642

EMFA



LEON 2 STONE

LED BOLLARD
Fixed & Adjustable
Class I IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



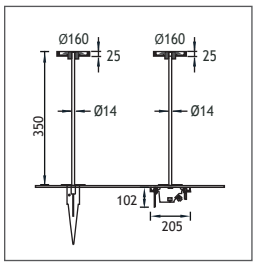
Head
Die cast aluminium & Stone
Diffusers
Frosted polyamide 6.6
Pipe
316L Stainless Steel
Paint
Electrostatic powder

CIRCULAR LED

Led : Circular LEDs (6W or 12W)
Voltage : 12-24V External Driver
(12-24 VDC on request)
CRI : >80

350mm

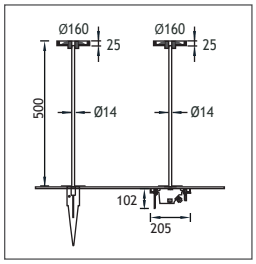




Power	Kelvin	Lumen Output	Fixed
6W	2700 K	720 lm	280001
6W	3000 K	720 lm	280002
6W	4000 K	790 lm	280003
12W	2700 K	1380 lm	280011
12W	3000 K	1380 lm	280012
12W	4000 K	1380 lm	280013

500mm

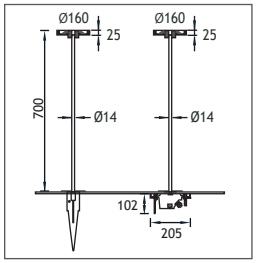




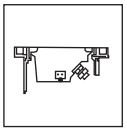
Power	Kelvin	Lumen Output	Fixed
6W	2700 K	720 lm	281001
6W	3000 K	720 lm	281002
6W	4000 K	790 lm	281003
12W	2700 K	1380 lm	281011
12W	3000 K	1380 lm	281012
12W	4000 K	1380 lm	281013

700mm





Power	Kelvin	Lumen Output	Fixed
6W	2700 K	720 lm	282001
6W	3000 K	720 lm	282002
6W	4000 K	790 lm	282003
12W	2700 K	1380 lm	282011
12W	3000 K	1380 lm	282012
12W	4000 K	1380 lm	282013



For LEON 2 **Recessing Tube**
Internal Driver
Code No: 953641



Picket
External Driver
Code No: 953642

EMFA

LEON 3

LED ACRYLIC BOLLARD
Fixed & Adjustable
Class I IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Head
Die Cast Aluminium
Diffusers
Frosted polyamide 6.6
Pipe
316L Stainless Steel
Paint
Electrostatic powder





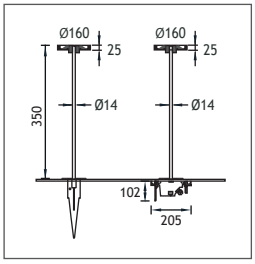
CIRCULAR LED

Led : Circular LEDs (6W or 12W)
Voltage : 12-24V External Driver
(12-24 VDC on request)
CRI : >80

350mm





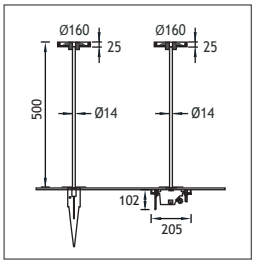


Power	Kelvin	Lumen Output	Code No Fixed	Code No Adjustable
6W	2700 K	720 lm	275003	275103
6W	3000 K	720 lm	275001	275101
6W	4000 K	790 lm	275002	275102

500mm





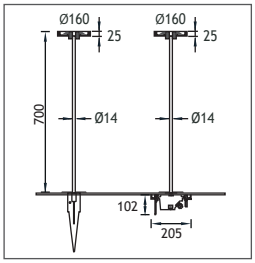


Power	Kelvin	Lumen Output	Code No Fixed	Code No Adjustable
6W	2700 K	720 lm	276003	276103
6W	3000 K	720 lm	276001	276101
6W	4000 K	790 lm	276002	276102

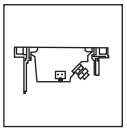
700mm







Power	Kelvin	Lumen Output	Code No Fixed	Code No Adjustable
6W	2700 K	720 lm	277003	277103
6W	3000 K	720 lm	277001	277101
6W	4000 K	790 lm	277002	277102



For LEON 3 **Recessing Tube**
Internal Driver
Code No: 953641



Picket
External Driver
Code No: 953642

EMFA



KIBIRA

LED BOLLARDS
IP65

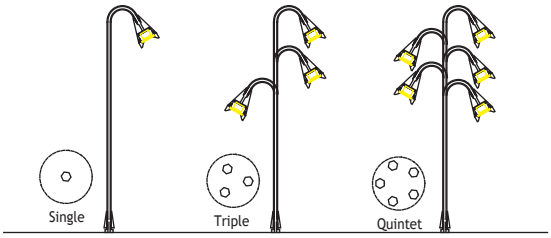
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Cover
Die cast aluminium
Body
Die cast aluminium
die cast aluminium bottom and connection box.
Gaskets
Silicone
Diffusers
4 mm Tempered Glass (Aluminium Cover)
Screws
316L Stainless steel
Glands
2 x PG 13.5
Recessing Tube
Polyamide 6





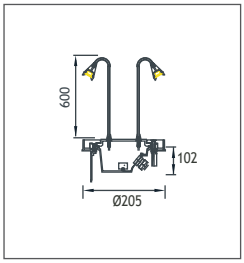


POWER LED

Led : LEDs (1W or 3W)
Voltage : 240 VAC with External driver (12-24 VDC on request)
Diffuser : Tempered Glass
Lens : 10°,25° or 40°

600mm

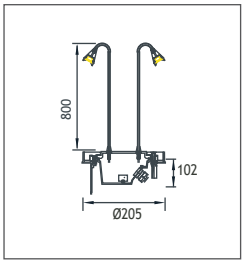




Power	Kelvin	Code No Single	Triple	Quinet
1W	2700 K	191003	192003	193003
1W	3000 K	191001	192001	193001
1W	4000 K	191002	192002	193002
3W	2700 K	191013	192013	193013
3W	3000 K	191011	192011	193011
3W	4000 K	191012	192012	193012

800mm

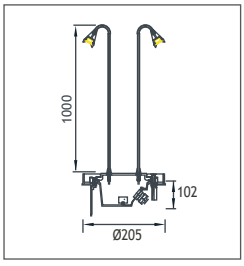




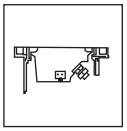
Power	Kelvin	Code No Single	Triple	Quinet
1W	2700 K	191103	192103	193103
1W	3000 K	191101	192101	193101
1W	4000 K	191102	192102	193102
3W	2700 K	191113	192113	193113
3W	3000 K	191111	192111	193111
3W	4000 K	191112	192112	193112

1000mm





Power	Kelvin	Code No Single	Triple	Quinet
1W	2700 K	191203	192203	193203
1W	3000 K	191201	192201	193201
1W	4000 K	191202	192202	193202
3W	2700 K	191213	192213	193213
3W	3000 K	191211	192211	193211
3W	4000 K	191212	192212	193212





For Kibira
Recessing Tube
Internal Driver
Code No: 953591

Picket
External Driver
Code No: 953592

EMFA



KIBIRA CROSS

LED BOLLARDS
IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



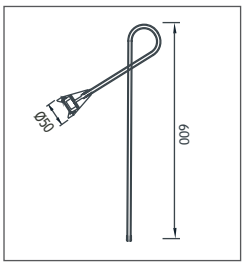
Cover
Die cast aluminium
Body
Die cast aluminium
die cast aluminium bottom and connection box.
Gaskets
Silicone
Diffusers
4 mm Tempered Glass (Aluminium Cover)
Screws
316L Stainless steel
Glands
2 x PG 13.5
Recessing Tube
Polyamide 6

POWER LED

Led : LEDs (1W or 3W)
Voltage : 12-24 VDC
240 VAC with External driver
Diffuser : Tempered Glass
Lens : 10°,25° or 40°

600mm

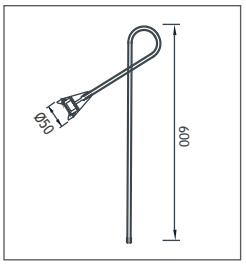




Power	Kelvin	Code No
1W	2700 K	195001
1W	3000 K	195002
1W	4000 K	195003
3W	2700 K	195011
3W	3000 K	195012
3W	4000 K	195013

800mm

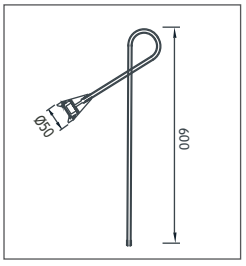




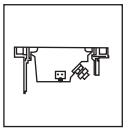
Power	Kelvin	Code No
1W	2700 K	195101
1W	3000 K	195102
1W	4000 K	195103
3W	2700 K	195111
3W	3000 K	195112
3W	4000 K	195113

1000mm





Power	Kelvin	Code No
1W	2700 K	195201
1W	3000 K	195202
1W	4000 K	195203
3W	2700 K	195211
3W	3000 K	195212
3W	4000 K	195213





For Kibira
Recessing Tube
Internal Driver
Code No: 953651

Picket
External Driver
Code No: 953652

EMFA



SARDES

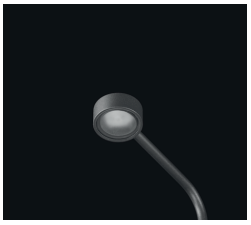
LED BOLLARDS
IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Cover
Die cast aluminium
Body
Die cast aluminium
die cast aluminium bottom and connection box.
Gaskets
Silicone
Diffusers
4 mm Tempered Glass (Aluminium Cover)
Screws
316L Stainless steel
Glands
2 x PG 13.5
Recessing Tube
Polyamide 6



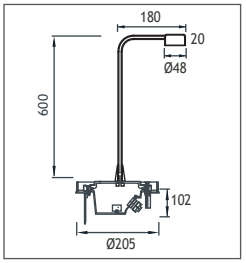


POWER LED

Led : LEDs (1W or 3W)
Voltage : 240 VAC with External driver (12-24 VDC on request)
Diffuser : Tempered Frosted Glass
Lens : 10°,25° or 40°

600mm

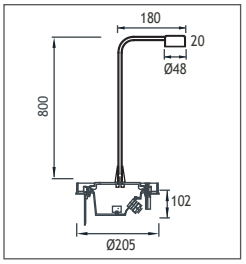




Power	Kelvin	Code No
1W	2700 K	196001
1W	3000 K	196002
1W	4000 K	196003
3W	2700 K	196011
3W	3000 K	196012
3W	4000 K	196013

800mm

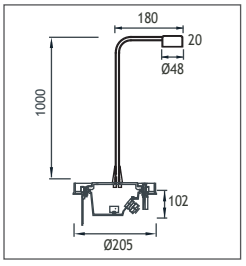




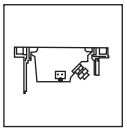
Power	Kelvin	Code No
1W	2700 K	196101
1W	3000 K	196102
1W	4000 K	196103
3W	2700 K	196111
3W	3000 K	196112
3W	4000 K	196113

1000mm





Power	Kelvin	Code No
1W	2700 K	196201
1W	3000 K	196202
1W	4000 K	196203
3W	2700 K	196211
3W	3000 K	196212
3W	4000 K	196213





For Sardes
Recessing Tube Internal Driver Code No: 953671
Picket External Driver Code No: 953672

EMFA



KIBIRA MUSHROOM LED BOLLARD



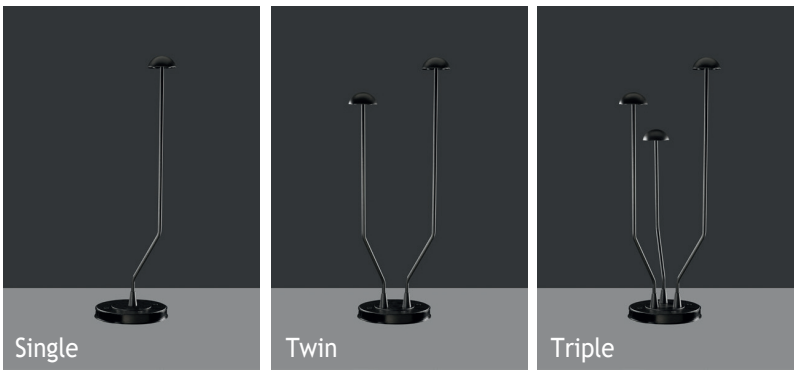
KIBIRA MUSHROOM

LED BOLLARDS
IP65

Available in any of these RAL colors

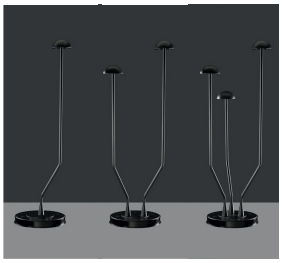
7004 7016 9005 9016 6002 1015

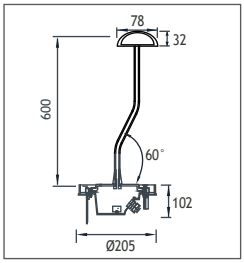
Cover
Die cast aluminium
Body
Die cast aluminium
die cast aluminium bottom and connection box.
Gaskets
Silicone
Diffusers
4 mm Tempered Glass (Aluminium Cover)
Screws
316L Stainless steel
Glands
2 x PG 13.5
Recessing Tube
Polyamide 6



Led : LEDs (1W or 3W)
Voltage : 240 VAC with External driver
(12-24 VDC on request)
Diffuser : Diffuse Acrylic

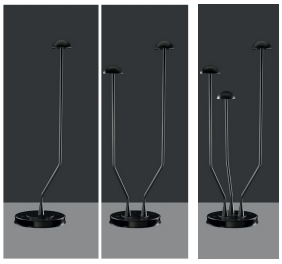
600mm

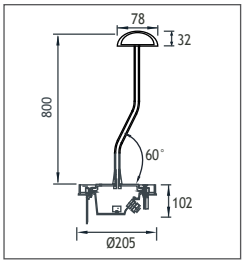




Power	Kelvin	Code No Single	Twin	Triple
1W	2700 K	222001	222101	222201
1W	3000 K	222002	222102	222202
1W	4000 K	222003	222103	222203
3W	2700 K	222011	222111	222211
3W	3000 K	222012	222112	222212
3W	4000 K	222013	222113	222213

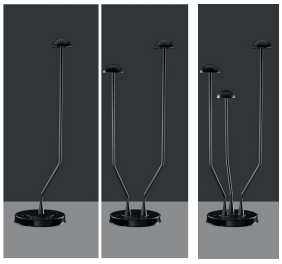
800mm

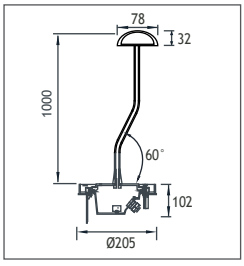




Power	Kelvin	Code No Single	Twin	Triple
1W	2700 K	223001	223101	223201
1W	3000 K	223002	223102	223202
1W	4000 K	223003	223103	223203
3W	2700 K	223011	223111	223211
3W	3000 K	223012	223112	223212
3W	4000 K	223013	223113	223213

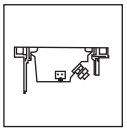
1000mm





Power	Kelvin	Code No Single	Twin	Triple
1W	2700 K	224001	224101	224201
1W	3000 K	224002	224102	224202
1W	4000 K	224003	224103	224203
3W	2700 K	224011	224111	224211
3W	3000 K	224012	224112	224212
3W	4000 K	224013	224113	224213

For Kibira



Recessing Tube
Internal Driver
Code No: 953731



Picket
External Driver
Code No: 953732

EMFA

PERINTHOS

ADJUSTABLE LED BOLLARDS IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



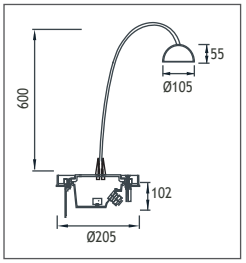
Cover
Die cast aluminium
Body
Die cast aluminium
die cast aluminium bottom and connection box.
Gaskets
Silicone
Diffusers
4 mm Tempered Glass (Aluminium Cover)
Screws
316L Stainless steel
Glands
2 x PG 13.5
Recessing Tube
Polyamide 6

POWER LED

Led : LEDs (6W or 11W)
Voltage : 240 VAC with External driver (12-24 VDC on request)
Diffuser : Tempered Glass
Lens : 10°,25° or 40°

600mm

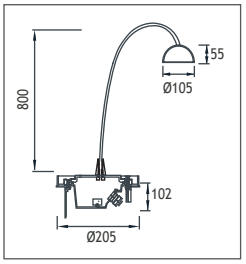




Power	Kelvin	Code No
6W	2700 K	198001
6W	3000 K	198002
6W	4000 K	198003
11W	2700 K	198011
11W	3000 K	198012
11W	4000 K	198013

800mm

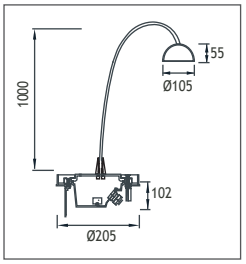




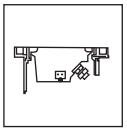
Power	Kelvin	Code No
6W	2700 K	198101
6W	3000 K	198102
6W	4000 K	198103
11W	2700 K	198111
11W	3000 K	198112
11W	4000 K	198113

1000mm





Power	Kelvin	Code No
6W	2700 K	198201
6W	3000 K	198202
6W	4000 K	198203
11W	2700 K	198211
11W	3000 K	198212
11W	4000 K	198213





For Perinthos
Recessing Tube Internal Driver Code No: 953741
Picket External Driver Code No: 953742

EMFA

KIZIKOS

LED BOLLARDS
IP65

Available in any of these RAL colors

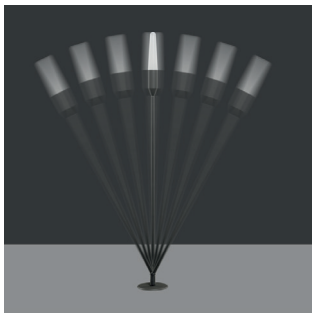
7004 7016 9005 9016 6002 1015

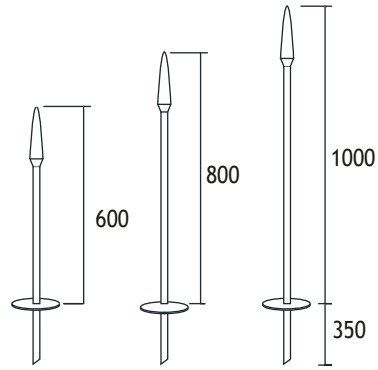
Head
Die cast aluminium
Diffusers
Acrylic
Pipe
Stainless steel
Paint
Electrostatic powder



POWER LED

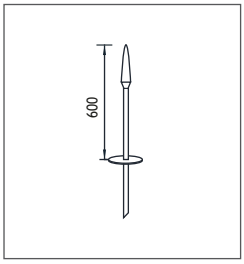
Led : LEDs (1W or 3W)
Voltage : 240 VAC with External driver (12-24 VDC on request)
Diffuser : >80





600mm

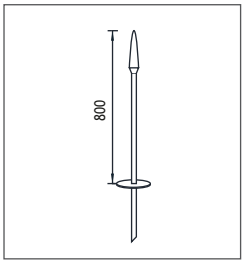




Power	Kelvin	Code No
1W	2700 K	194003
1W	3000 K	194001
1W	4000 K	194002
3W	2700 K	194013
3W	3000 K	194011
3W	4000 K	194012

800mm

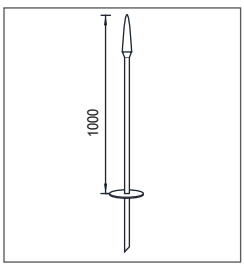




Power	Kelvin	Code No
1W	2700 K	194103
1W	3000 K	194101
1W	4000 K	194102
3W	2700 K	194113
3W	3000 K	194111
3W	4000 K	194112

1000mm





Power	Kelvin	Code No
1W	2700 K	194203
1W	3000 K	194201
1W	4000 K	194202
3W	2700 K	194213
3W	3000 K	194211
3W	4000 K	194212

EMFA



KIZIKOS MINI
LED BOLLARD



KIZIKOS MINI

LED BOLLARDS
IP65

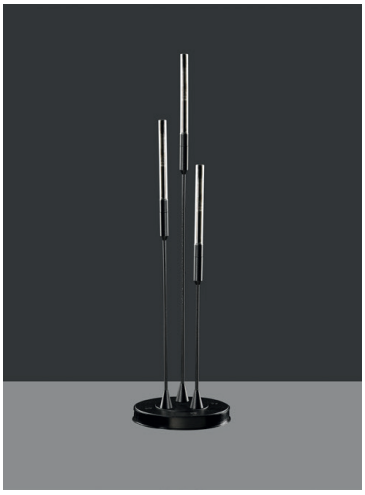
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Head
Die cast aluminium
Diffusers
Acrylic
Pipe
Stainless steel
Paint
Electrostatic powder

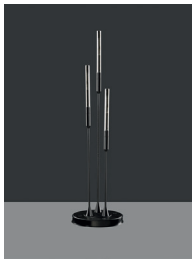
Lampholder : Gu4
Led : 1,5W LED LAMP
Voltage : 12 VAC with External driver
Diffuser : Clear or Frosted Acrylic

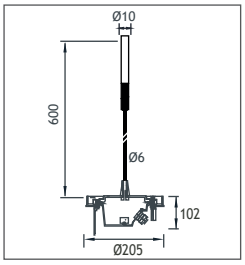




600mm



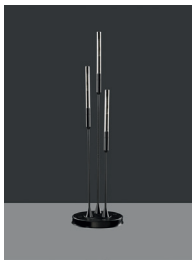


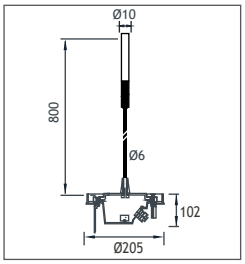


Power	Kelvin	Code No Single	Triple	Quinet
1W	2700 K	194301	194401	194501
1W	3000 K	194302	194402	194502
1W	4000 K	194303	194403	194503
3W	2700 K	194311	194411	194511
3W	3000 K	194312	194412	194512
3W	4000 K	194313	194413	194513

800mm



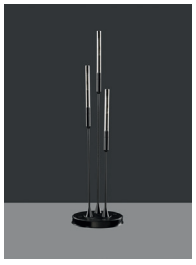


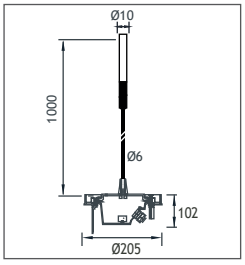


Power	Kelvin	Code No Single	Triple	Quinet
1W	2700 K	195301	195401	195501
1W	3000 K	195302	195402	195502
1W	4000 K	195303	195403	195503
3W	2700 K	195311	195411	195511
3W	3000 K	195312	195412	195512
3W	4000 K	195313	195413	195513

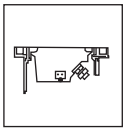
1000mm







Power	Kelvin	Code No Single	Triple	Quinet
1W	2700 K	196301	196401	196501
1W	3000 K	196302	196402	196502
1W	4000 K	196303	196403	196503
3W	2700 K	196311	196411	196511
3W	3000 K	196312	196412	196512
3W	4000 K	196313	196413	196513





For Kizikos
Recessing Tube
Internal Driver
Code No: 953751

Picket
External Driver
Code No: 953752

EMFA



ANI 1 ALUM LED BOLLARD
Class I IP55 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

EMFA's Ani Bollard combines a die-cast aluminium head housing an LED unit with an extrusion aluminium pipe.The bollard is designed to light pathways, landscapes and open spaces. The Leon bollard gives light only in the downward direction.This avoids any kind of glare and light pollution. The head and pipe are connected by a hidden screw within the pipe. The head contains LEDs that can be powered up to 12W. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleave anchors for mounting onto existing concrete or a picket to mount into the earth.


Asym. Glass

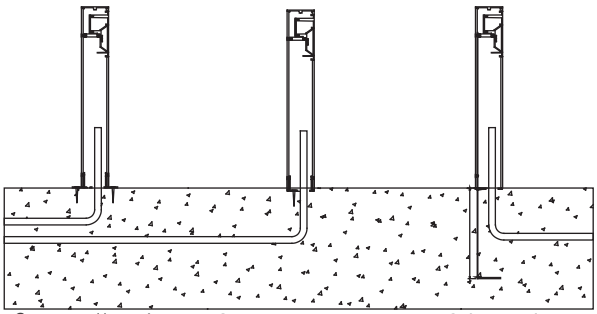

Trenched Glass


Milky Glass


Clear Glass



Profile
Aluminium
Body
Die cast aluminium
Gaskets
Silicone
Diffusers
4 mm Tempered Glass
Screws
316L Stainless steel
Glands
PG 11

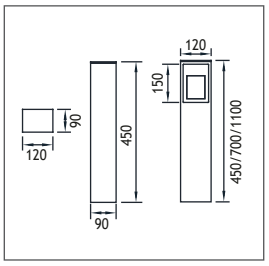


Linear LEDs

Led	: Linear LEDs
Voltage	: 240 VAC with integrated driver (12-24 VDC on request)
Diffuser	: 4 mm Tempered Glass
Beam Angle	: 45° / 60° / 90°
Mac Adam	: 3
CRI	: >80
L.O.R %	: %70

SYMMETRICAL

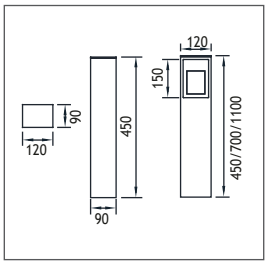




Power	Kelvin	Real Lumen Output	Beam Angle	450 mm	700 mm	1100 mm
6W	2700 K	570 lm	45° / 60° / 90°	452003	452103	452203
6W	3000 K	570 lm	45° / 60° / 90°	452001	452101	452201
6W	4000 K	581 lm	45° / 60° / 90°	452002	452102	452202
12W	2700 K	1140 lm	45 / 60° / 90°	452013	452113	452213
12W	3000 K	1140 lm	45° / 60° / 90°	452011	452111	452211
12W	4000 K	1162 lm	45° / 60° / 90°	452012	452112	452212

ASYMMETRICAL





Power	Kelvin	Real Lumen Output	Beam Angle	450 mm	700 mm	1100 mm
6W	2700 K	570 lm	45° / 60° / 90°	452503	452603	452703
6W	3000 K	570 lm	45° / 60° / 90°	452501	452601	452701
6W	4000 K	581 lm	45° / 60° / 90°	452502	452602	452702
12W	2700 K	1140 lm	45 / 60° / 90°	452513	452613	452713
12W	3000 K	1140 lm	45° / 60° / 90°	452511	452611	452711
12W	4000 K	1162 lm	45° / 60° / 90°	452512	452612	452712

ANI 1 WOOD LED BOLLARDS
Class I IP65 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Real wood is the preferred material of architects for cutting edge designs. Our ANI Wood bollard is made of IROKO wood with an incredibly smooth finish. The Wood Bollard can blend into the architecture of a building and mature together with its surroundings. The simple form of the Wood Bollard is emphasized with the light that comes out from the solid structure.



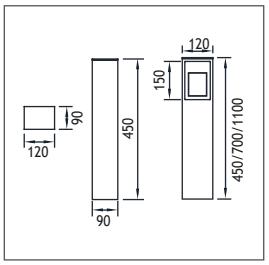
Body
Wood
Gaskets
Silicone
Diffusers
4 mm Tempered Glass
Screws
316L Stainless steel
Glands
PG 11

Linear LEDs

Led : Linear LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 4 mm Tempered Glass
Beam Angle : 45° / 60° / 90°
Mac Adam : 3
CRI : >80
L.O.R % : %70

ASYMMETRICAL





Power	Kelvin	Lumen Output	Beam Angle	450 mm	700 mm	1100 mm
6W	2700 K	570 lm	45° / 60° / 90°	465001	465101	465201
6W	3000 K	570 lm	45° / 60° / 90°	465002	465102	465202
6W	4000 K	581 lm	45° / 60° / 90°	465003	465103	465203
12W	2700 K	1140 lm	45 / 60° / 90°	465011	465111	465211
12W	3000 K	1140 lm	45° / 60° / 90°	465012	465112	465212
12W	4000 K	1162 lm	45° / 60° / 90°	465013	465113	465213

ANI 4 ALUM LED BOLLARD
Class I IP55 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Profile
Aluminium
Body
Die cast aluminium
Gaskets
Silicone
Diffusers
4 mm Tempered Glass
Screws
316L Stainless steel
Glands
PG 11

Linear LEDs

Led	: Linear LEDs
Voltage	: 240 VAC with integrated driver (12-24 VDC on request)
Diffuser	: 4 mm Tempered Glass
Beam Angle	: 45° / 60° / 90°
Mac Adam	: 3
CRI	: >80
L.O.R %	: %70

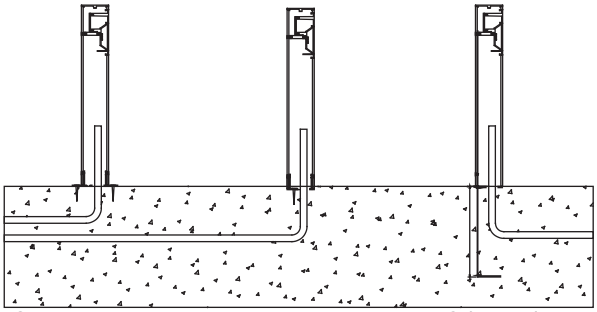

Asym. Glass


Trenched Glass


Milky Glass

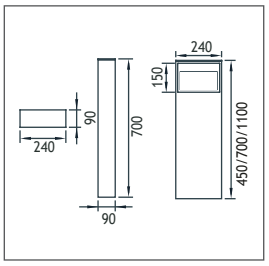

Clear Glass





SYMMETRICAL

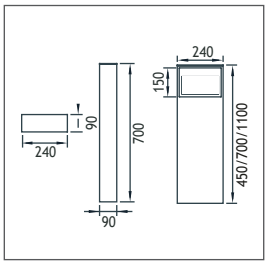




Power	Kelvin	Real Lumen Output	Beam Angle	450 mm	700 mm	1100 mm
24W	2700 K	2280 lm	45° / 60° / 90°	459003	459103	459203
24W	3000 K	2280 lm	45° / 60° / 90°	459001	459101	459201
24W	4000 K	2320 lm	45° / 60° / 90°	459002	459102	459202
36W	2700 K	3420 lm	45 / 60° / 90°	459013	459113	459213
36W	3000 K	3420 lm	45° / 60° / 90°	459011	459111	459211
36W	4000 K	3520 lm	45° / 60° / 90°	459012	459112	459212

ASYMMETRICAL





Power	Kelvin	Real Lumen Output	Beam Angle	450 mm	700 mm	1100 mm
24W	2700 K	2280 lm	45° / 60° / 90°	459503	459603	459703
24W	3000 K	2280 lm	45° / 60° / 90°	459501	459601	459701
24W	4000 K	2320 lm	45° / 60° / 90°	459502	459602	459702
36W	2700 K	3420 lm	45 / 60° / 90°	459513	459613	459713
36W	3000 K	3420 lm	45° / 60° / 90°	459511	459611	459711
36W	4000 K	3520 lm	45° / 60° / 90°	459512	459612	459712

EMFA

BELLA

LED BOLLARDS
Class I IP65 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Head
Die cast aluminium
Diffuser
Tempered Glass 4 mm
Pipe
Extrusion aluminium
Base
Polyamide (black color)
Paint
Electrostatic powder

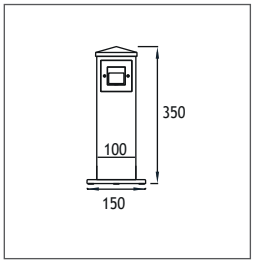


LINEAR LEDS

Voltage : 240V AC with integrated driver (12V DC or 24V DC on request)
Diffuser : Clear Glass 4 mm
Cable : Potted 5 m 3x0,75 H03 VV-F

ONE WAY ASYMMETRICAL





Power	Kelvin	Real Lumen Output	Code No
3W	2700 K	380 lm	149103
3W	3000 K	387 lm	149101
3W	5000 K	416 lm	149102

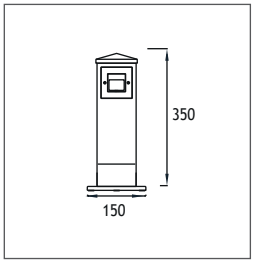


Socket can be installed optionally 953761



TWO WAY ASYMMETRICAL

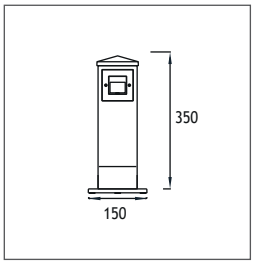




Power	Kelvin	Real Lumen Output	Code No
3W	2700 K	380 lm	149113
3W	3000 K	387 lm	149111
3W	5000 K	416 lm	149112

TWO WAY ASYMMETRICAL + SYMMETRICAL





Power	Kelvin	Real Lumen Output	Code No
3W	2700 K	380 lm	149123
3W	3000 K	387 lm	149121
3W	5000 K	416 lm	149122

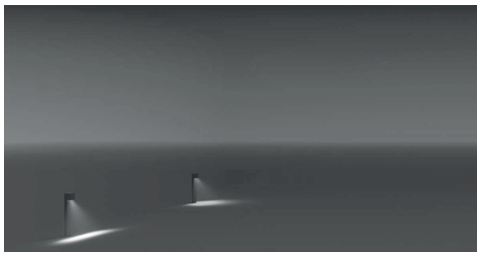
EMFA

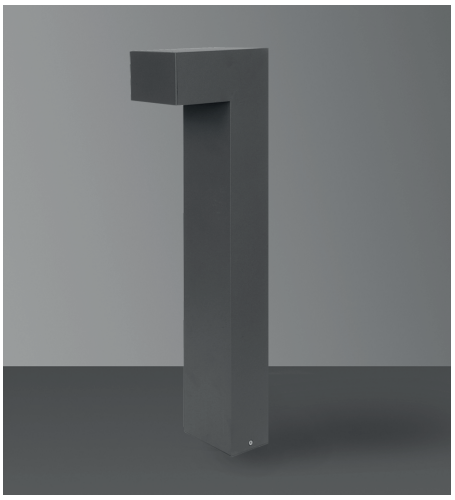
L TYPE LED BOLLARDS
Class I IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

3W or 6W COB LED
Head
Die cast aluminium
Diffuser
Tempered Glass 4 mm
Pipe
Extrusion aluminium
Base
Die cast aluminium
Paint
Electrostatic powder



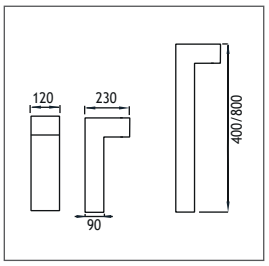


COB LED

Voltage : 240V AC with integrated driver (12V DC or 24V DC on request)
Diffuser : Clear Glass 4 mm
Cable : Potted 5 m 3x0,75 H03 VV-F

COB LED BOLLARDS





Power	Kelvin	Real Lumen Output	40 cm	80 cm
3W COB LED	2700 K	380 lm	125003	125201
3W COB LED	3000 K	387 lm	125001	125202
3W COB LED	5000 K	416 lm	125002	125203
6W COB LED	2700 K	570 lm	125011	125103
6W COB LED	3000 K	570 lm	125012	125101
6W COB LED	5000 K	612 lm	125013	125102

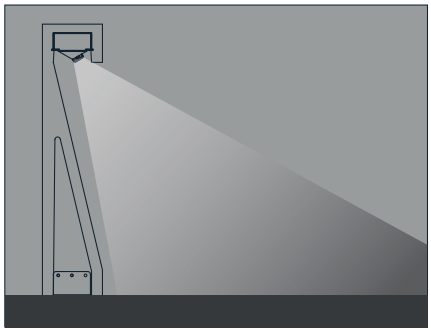
BÉTON LED BOLLARDS
Class I IP67 IK10

Exposed concrete is the preferred material of architects for cutting edge designs. Our BETON bollard is made of heavy duty concrete with an incredibly smooth finish. The BETON can blend into the architecture of a building and mature together with its surroundings. The simple form of the BETON is emphasized with the light that comes out from the solid structure..



Asymmetrical

Led : Linear LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 4mm Tempered Glass
Beam Angle : 45° / 60° / 90°
Mac Adam : 3
CRI : >80
L.O.R % : %70

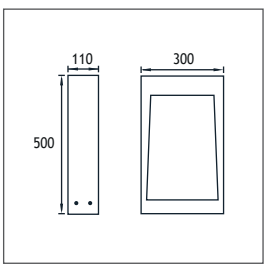






LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.





Power	Kelvin	Real Lumen Output	Lens	Code No
6W	2700 K	570 lm	45°,60°,90°	190003
6W	3000 K	570 lm	45°,60°,90°	190001
6W	4500 K	581 lm	45°,60°,90°	190002
12W	2700 K	1162 lm	45°,60°,90°	190013
12W	3000 K	1162 lm	45°,60°,90°	190011
12W	4500 K	1140 lm	45°,60°,90°	190012



For BETON **Anchor** Code No: 953716

EMFA


EMFA

BÉTON L TYPE LED BOLLARDS
Class I IP67 IK10

Exposed concrete is the preferred material of architects for cutting edge designs. Our BETON bollard is made of heavy duty concrete with an incredibly smooth finish. The BETON can blend into the architecture of a building and mature together with its surroundings. The simple form of the BETON is emphasized with the light that comes out from the solid structure..

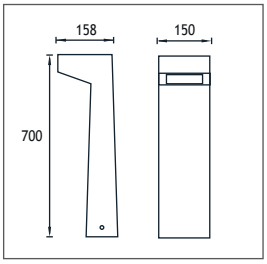




Asymmetrical

Led : LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 4mm Tempered Glass
Beam Angle : Asymmetrical
Mac Adam : 3
CRI : >80
L.O.R % : %70





Power	Kelvin	Real Lumen Output	Code No
10W	2700 K	850 lm	190101
10W	3000 K	850 lm	190102
10W	4500 K	891 lm	190103



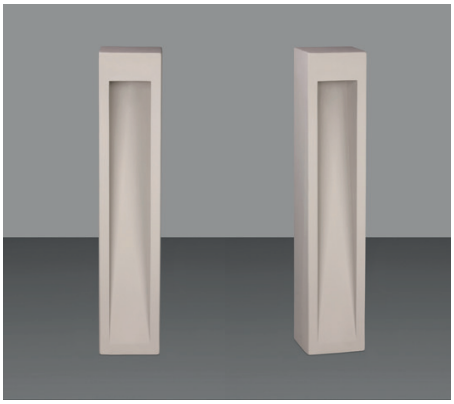
For BETON **Anchor** Code No: 953771

EMFA

BÉTON

SQUARE LED BOLLARDS
Class I IP67 IK10

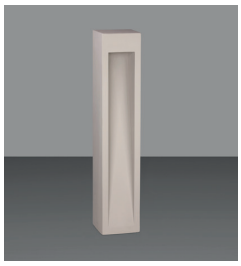
Exposed concrete is the preferred material of architects for cutting edge designs. Our BETON bollard is made of heavy duty concrete with an incredibly smooth finish. The BETON can blend into the architecture of a building and mature together with its surroundings. The simple form of the BETON is emphasized with the light that comes out from the solid structure..

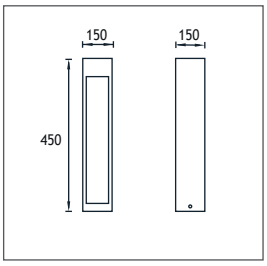




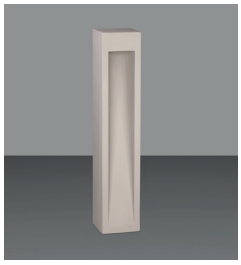
Asymmetrical

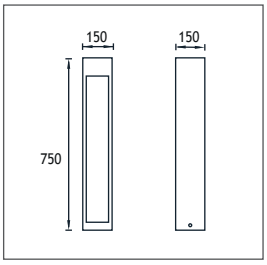
Led : LEDs
Voltage : 240 VAC with integrated driver
(12-24 VDC on request)
Diffuser : 4mm Tempered Glass
Beam Angle : Asymmetrical
Mac Adam : 3
CRI : >80
L.O.R % : %70





Power	Kelvin	Real Lumen Output	Code No
10W	2700 K	750 lm	190201
10W	3000 K	750 lm	190202
10W	4500 K	791 lm	190203





Power	Kelvin	Real Lumen Output	Code No
10W	2700 K	750 lm	190301
10W	3000 K	750 lm	190302
10W	4500 K	791 lm	190303



For BETON **Anchor**
Code No: 953771

ODEON BOLLARD
Class I IP67 IK10

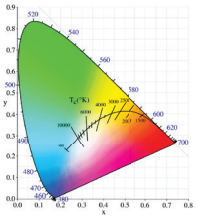
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

EMFA's Odean Bollard combines a die-cast aluminium head housing an LED unit with an extrusion aluminium pipe. The bollard is designed to light pathways, landscapes and open spaces. The unit comes with 5 different options of heads depending on much light is required and into which direction: with one head, two adjacent heads, two opposite heads, three heads, or four heads. The head and pipe are connected by a hidden screw within the pipe. One head contains 20 medium-power LEDs consuming 6W and providing over 500lm light output. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleave anchors for mounting onto existing concrete or a picket to mount into the earth.



Head
Die cast aluminium
Diffusers
Frosted polyamide 6.6
Pipe
Extrusion aluminium
Paint
Electrostatic powder



"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

ODEON

BOLLARD
Class I IP67 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

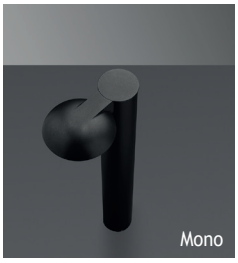


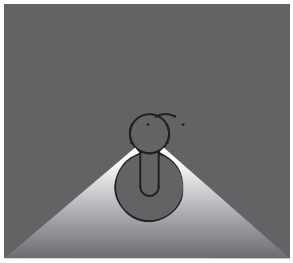
POWER LED or CPB LED

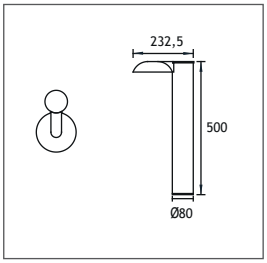
Led : Medium power LEDs

Voltage : 240 VAC with External driver (12-24 VDC on request)

Diffuser : Polyamide 6.6

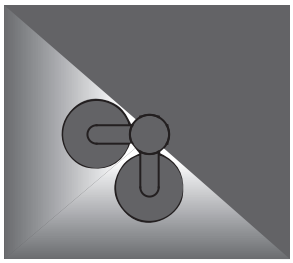


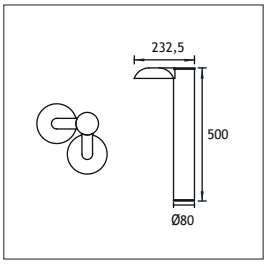




Power	Kelvin	Code No
6W	2700 K	178103
6W	3000 K	178101
6W	4000 K	178102

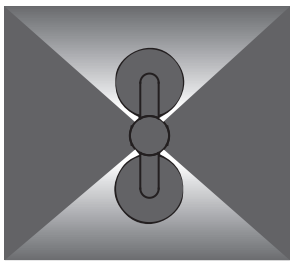


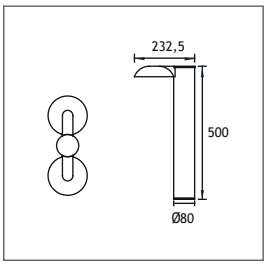




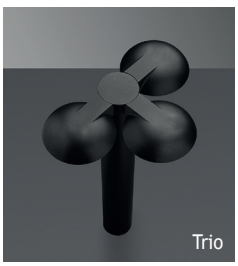
Power	Kelvin	Code No
12W	2700 K	178113
12W	3000 K	178111
12W	4000 K	178112

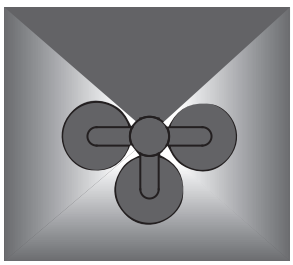


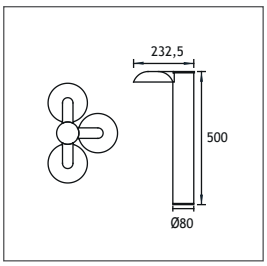




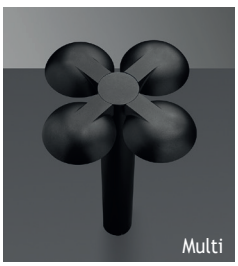
Power	Kelvin	Code No
12W	2700 K	178123
12W	3000 K	178121
12W	4000 K	178122

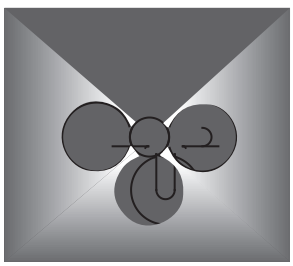


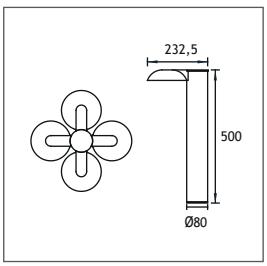




Power	Kelvin	Code No
18W	2700 K	178133
18W	3000 K	178131
18W	4000 K	178132







Power	Kelvin	Code No
24W	2700 K	178143
24W	3000 K	178141
24W	4000 K	178142

DION

WALL AND GROUND BOLLARDS
Class I IP65 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

EMFA's Dion series combines a die-cast aluminium head with an extrusion aluminium pipe to provide a sturdy, outdoor bollard. The bollards are designed to light pathways, landscapes and open spaces. The unit comes with 5 different heads for various light outputs and applications. A screwless bayonet lock system allows for easy dismounting of the head. The unit comes in 4 sizes: 300mm, 450mm, 700mm, and 1100mm, as well as with 3 lamp options: LED, Fluorescent, Metal Halide. In combination with the fluorescent lamp, an optional LED pilot lamp is available to light the bollard when the primary light source is off to continue marking a path while saving energy. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleeve anchors for mounting onto existing concrete.

Head
Die cast aluminium
With Screwless lock system
(Electrical lock on request)
Outer Protective Grill
Die cast aluminium
Diffuser
Frosted polycarbonate
Pipe
Extrusion aluminium
Paint
Electrostatic powder







Accessories:

2 x Leds Pilot Lamps
Lit when main Light Source is turned off. Available in:

Code No 956101 - Blue
Code No 956102 - Red
Code No 956103 - Yellow
Code No 956104 - Green

Code Number should be indicated along with bollard code number















DION LED BOLLARDS IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

LINEAR LED, HALOGEN or FLUO

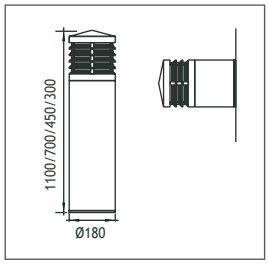
Led : Medium power LEDs

Voltage : 240 VAC with integrated driver (12-24 VDC on request)

Diffuser : Polyamide 6.6

DION 1

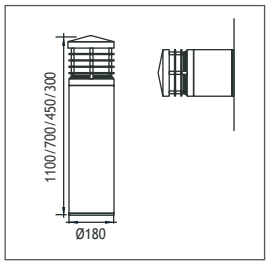




Power	30 cm	45 cm	70 cm	110 cm
FLUO 10W	143101			
ELECTRONIC FLUO 23W		143201	143301	143401
FLUO 26W		143211	143311	143411
METAL HALIDE 35W		143221	143321	143421
LINEAR LED 12W		143231	143341	143331

DION 2

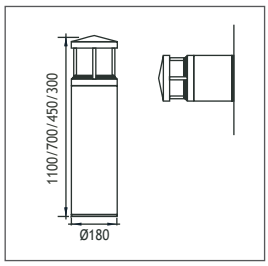




Power	30 cm	45 cm	70 cm	110 cm
FLUO 10W	144101			
ELECTRONIC FLUO 23W		144201	144301	144401
FLUO 26W		144211	144311	144411
METAL HALIDE 35W		144221	144321	144421
LINEAR LED 12W		144231	144341	144331

DION 3

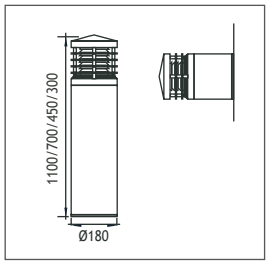




Power	30 cm	45 cm	70 cm	110 cm
FLUO 10W	145101			
ELECTRONIC FLUO 23W		145201	145301	145401
FLUO 26W		145211	145311	145411
METAL HALIDE 35W		145221	145321	145421
LINEAR LED 12W		145231	145341	145331

DION 4

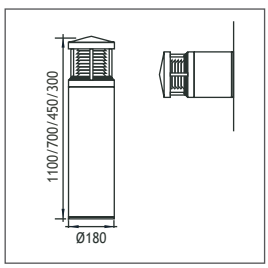




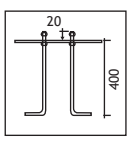
Power	30 cm	45 cm	70 cm	110 cm
FLUO 10W	146101			
ELECTRONIC FLUO 23W		146201	146301	146401
FLUO 26W		146211	146311	146411
METAL HALIDE 35W		146221	146321	146421
LINEAR LED 12W		146231	146341	146331

DION 5





Power	30 cm	45 cm	70 cm	110 cm
FLUO 10W	147101			
ELECTRONIC FLUO 23W		147201	147301	147401
FLUO 26W		147211	147311	147411
METAL HALIDE 35W		147221	147321	147421
LINEAR LED 12W		147231	147341	147331



For DION **Anchor** Code No: 955201

EMFA





MILET

BOLLARD
Class I IP65 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



The Milet Indirect series consists of an on-wall fixture and a bollard using LED, halogen or fluorescent. The fixtures are made of a combination of a die cast aluminium head and an aluminium pipe painted with electrostatic powder paint. The wall fixture allows for a custom made sign showing room numbers or names. For the LED versions, a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. For the halogen and fluorescent versions, an IP connection box is provided to allow for a secure connection of the on-site cable.

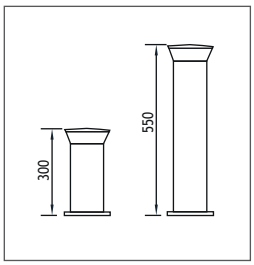
Cover
Die cast aluminium
Paint
Black or grey electrostatic powder
Pipe
Extrusion aluminium
Connection
IP connection box
Gaskets
Silicone
Diffusers
Polycarbonate

DOM LED, HALOGEN or FLUO

Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 40°
Diffuser : Polycarbonate
Cable : Potted 5 m 3x0,75 H03 VV-F

DOM LED

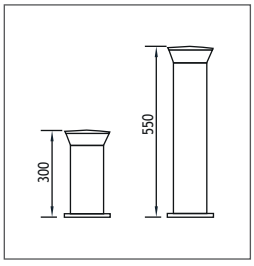




Power	Lens	Kelvin	300mm	550mm
11W	40°	3000 K	291121	292221

HALOGEN

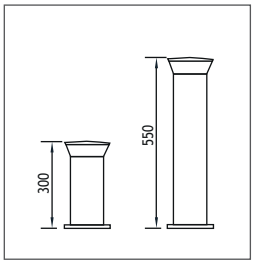




Power	Lens	Kelvin	300mm	550mm
40W	40°	G9	291101	291201

ELECTRONIC CICULAR FLUO





Power	Lens	Kelvin	300mm	550mm
6W	Gx53	40°	291111	291211

EMFA



POLARIS

ALUMINIUM BOLLARDS
Class I IP43 IK10

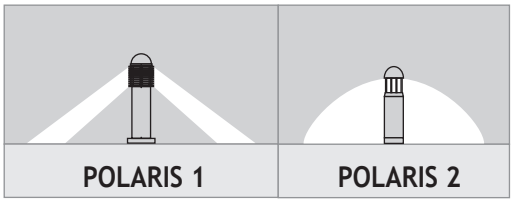
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

FLUO
Bottom Base
Polyamide (black color)
Outer Grill
Die cast aluminium
Pipe
Extrusion aluminium
Paint
Electrostatic powder
Diffuser
Polycarbonate or
Glass (incandescent and mercury lamps)





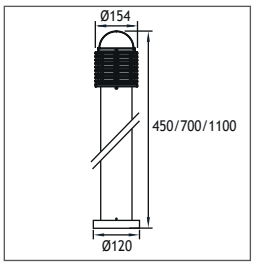


DOM LED, HALOGEN or FLUO

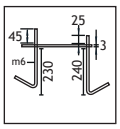
Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 40°
Diffuser : Polycarbonate
Cable : Potted 5 m 3x0,75 H03 VV-F

POLARIS 1





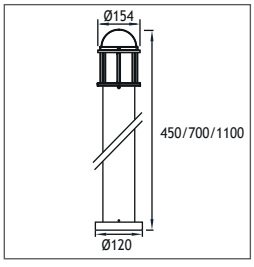
Power	Lampholder	45 cm	70 cm	1100 cm
60W	E27	124101	124201	124301
80W	E27	124111	124211	124311
23W	E27	124121	124221	124321
26W	G24 d-3	124131	124231	124331



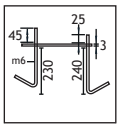
For POLARIS 1 **Anchor**
Code No: 953611

POLARIS 2





Power	Lampholder	45 cm	70 cm	1100 cm
23W	E27	126101	126201	126301
26W	G24 d-3	126111	126211	126311



For POLARIS 2 **Anchor**
Code No: 953621

EMFA

LARA

ACRYLIC BOLLARDS
Class I IP55

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

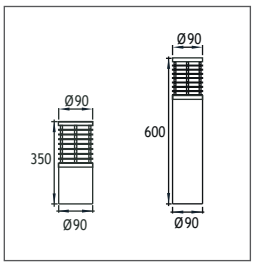
FLUO
LARA (35/60 cm)

Lampholder : G24 q-1
Reflector : -
Diffuser : Acrylic Pipe
Transformer : Electronic









Power	Lampholder	35 cm	60 cm
COMPACT FLUO 13W	G24 q-1	294101	294201






N
NOVOTEL

BELKIS 1

BOLLARDS (600 mm)
Class I IP55

Available in any of these RAL colors



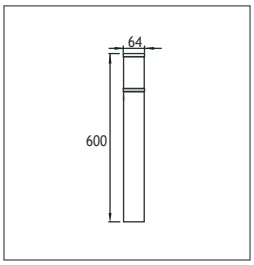
FLUO

Lampholder : G24 q-1
Reflector : -
Diffuser : Acrylic Pipe
Transformer : Electronic



600mm

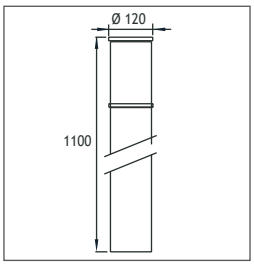




Power	Lampholder	Code No
13W COMPACT FLUO	G24 q-1	292201

1100mm





Power	Lampholder	Code No
26W COMPACT FLUO	G24 q-1	292301


SELÇUKLU KONGRE MERKEZİ



GOREME

LED BOLLARDS
Class I IP65 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Bottom Base
Polyamide (black color)
Inner Grill
Polycarbonate
Pipe
Extrusion aluminium
Paint
Electrostatic powder
Diffuser
Polycarbonate
Anchor





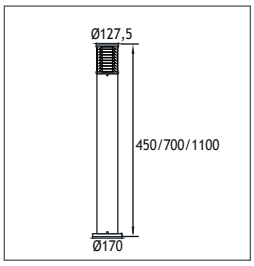
LINEAR LED

Voltage : 240 V AC with integrated driver (24V AC or DC on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

GOREME 1

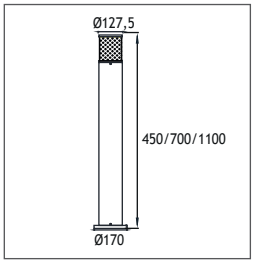




Power	Kelvin	Real Lumen Output	45 cm	70 cm	110 cm
12W	2700 K	1140 lm	127003	127103	127203
12W	3000 K	1140 lm	127001	127101	127201
12W	4000 K	1162 lm	127002	127102	127202
24W	2700 K	2280 lm	127013	127113	127213
24W	3000 K	2280 lm	127011	127111	127211
24W	4000 K	2320 lm	127012	127112	127212

GOREME 2





Power	Kelvin	Real Lumen Output	45 cm	70 cm	110 cm
12W	2700 K	1140 lm	127503	127603	127703
12W	3000 K	1140 lm	127501	127601	127701
12W	4000 K	1162 lm	127502	127602	127702
24W	2700 K	2280 lm	127513	127613	127713
24W	3000 K	2280 lm	127511	127611	127711
24W	4000 K	2320 lm	127512	127612	127712

BOW

GARDEN FIXTURE
Class I IP44 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Body
Glass reinforced polyester
Diffuser
Acrylic
Reflector
Anodized aluminium
Bracket
Stainless Steel



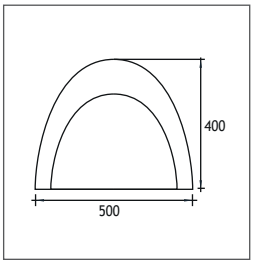
LINEAR LED or FLUO

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

LINEAR LED

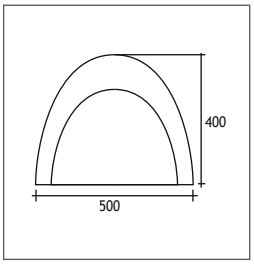




Power	Kelvin	Lumen Output	Code No
2x3W	2700 K	570 lm	129122
2x3W	3000 K	570 lm	129121

FLUO





Power	Lampholder	Code No
13W	G24 d-1	129101
18W	G24 d-1	129111



EMFA

RAMBO

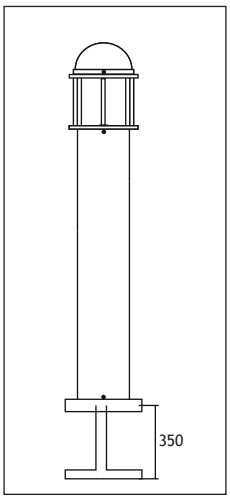
VANDALPROOF BOLLARD
Class I IP65 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Head
Die cast aluminium
Pipe
Steel
Paint
Electrostatic powder paint
Diffuser
Polycarbonate
Anchor
Die cast iron





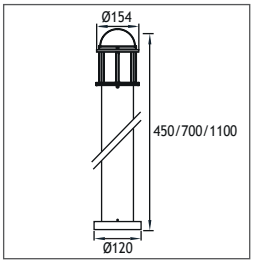


LINEAR LED, HALOGEN or FLUO

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

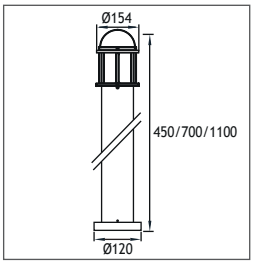
Cable : Potted 5 m 3x0,75 H03 VV-F





Power	Lamholder	Code No
INCANDESCENT 100W	27	128101
MERCURY 80W	27	128111
ELECTRONIC FLUO 23W	27	128121
FLUO 26W	27	128131





Power	Kelvin	Lumen Output	Code No
LINEAR LED 12W	2700 K	1400 lm	128142
LINEAR LED 12W	3000 K	1400 lm	128141


ODTÜ

MUSHROOM

GARDEN FIXTURE
Class I IP67 IK10

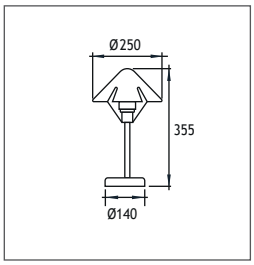
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

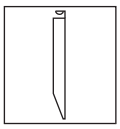
HALOGEN
Top Cover
Aluminium
Inner Body
Die cast aluminium
Diffuser
Tempered Glass
Gaskets
Silicone
Lampholder: Gu1







Power	Lampholder	Code No
HALOGEN 50W	Gu10	129501



For Mushroom **Picket**
Code No: 953501



EMFA

Stainless Steel Underwater

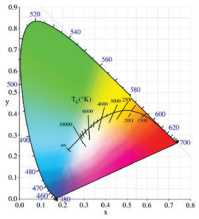


ATLANTIS UNDERWATER LED FIXTURES
Class III IP68 IK10

The Atlantis Underwater series is specially designed to light pools, fountains and water features with high power LED light. The series is made of 316L stainless steel to withstand salt water and chlorine. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also possible. The series comes as recessed, surface mount or spots. The spots are heavy duty with stainless steel brackets for sturdy fixing. The bodies are filled with cast resin and a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The low voltage electronic LED driver is housed in the base of the fixture. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber or RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired light effect.



Frame
316L Stainless Steel
Body
316L Stainless Steel
Recessing Tube
Aluminium
Gaskets
Silicone
Diffusers
Tempered Glass
Screws
Stainless Steel
Mounting Brackets
316L Stainless Steel



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

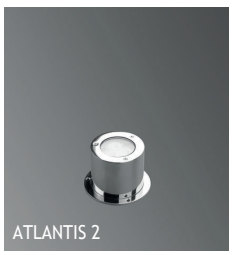
Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.


ATLANTIS 5

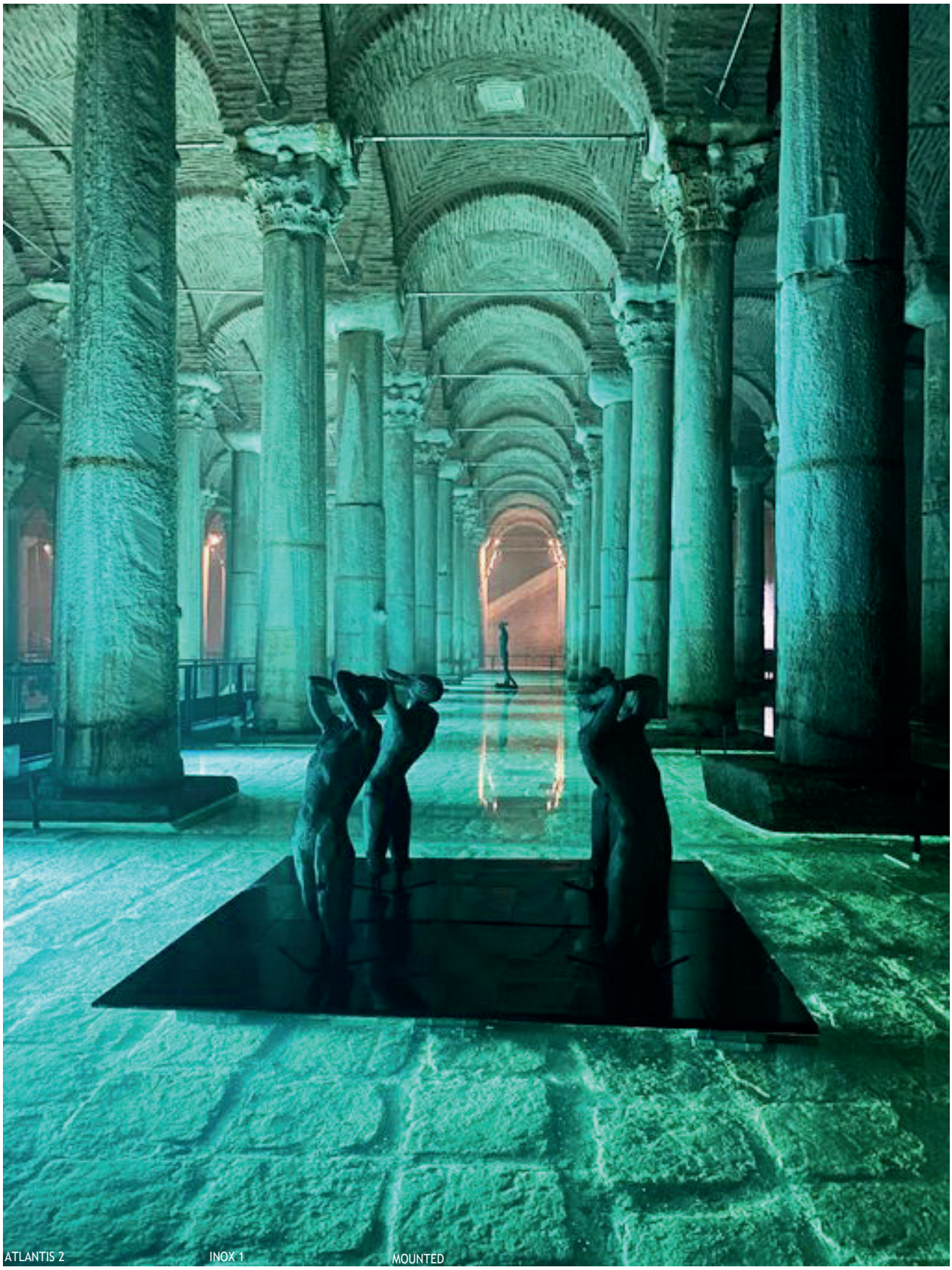

ATLANTIS 2


MIRA ATLANTIS RECESSED


ATLANTIS 2


INOX 1


MIRA ATLANTIS SURFACE MOUNTED



ATLANTIS 2 INOX 1 MOUNTED

ATLANTIS

UNDERWATER RECESSED LED FIXTURES
Class III IP68 IK10







POWER LEDs

Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

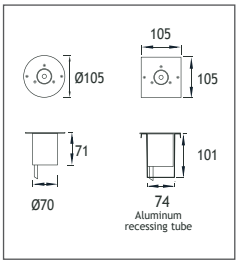
Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 5m 2x0,75 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

ATLANTIS 1

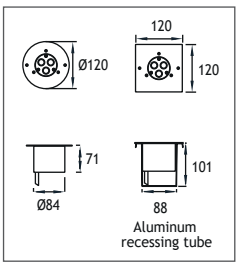




Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
1W LED	2700 K	95 lm	10°,25°,40°	421102	421112
1W LED	3000 K	95 lm	10°,25°,40°	421101	421111
1W LED	4500 K	97 lm	10°,25°,40°	421106	421116
1W LED	6000 K	99 lm	10°,25°,40°	421107	421117
3W LED	2700 K	285 lm	10°,25°,40°	421204	421214
3W LED	3000 K	285 lm	10°,25°,40°	421201	421211
3W LED	4500 K	290 lm	10°,25°,40°	421202	421212
3W LED	6000 K	296 lm	10°,25°,40°	421203	421213

ATLANTIS 2

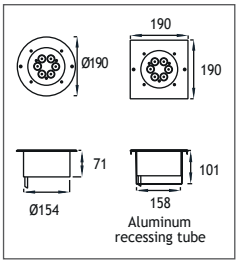




Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	421122	421132
3W LED	3000 K	285 lm	10°,25°,40°	421121	421131
3W LED	4500 K	290 lm	10°,25°,40°	421126	421136
3W LED	6000 K	296 lm	10°,25°,40°	421127	421137
9W LED	2700 K	855 lm	10°,25°,40°	421304	421314
9W LED	3000 K	855 lm	10°,25°,40°	421301	421311
9W LED	4500 K	872 lm	10°,25°,40°	421302	421312
9W LED	6000 K	890 lm	10°,25°,40°	421303	421313
9W LED	RGB		10°,25°,40°	421141	421151

ATLANTIS 5





Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
9W LED	2700 K	855 lm	10°,25°,40°	405322	405332
9W LED	3000 K	855 lm	10°,25°,40°	405321	405331
9W LED	4500 K	872 lm	10°,25°,40°	405326	405336
9W LED	6000 K	890 lm	10°,25°,40°	405327	405337
27W LED	2700 K	2560 lm	10°,25°,40°	421824	421834
27W LED	3000 K	2560 lm	10°,25°,40°	421821	421831
27W LED	4500 K	2610 lm	10°,25°,40°	421822	421832
27W LED	6000 K	2670 lm	10°,25°,40°	421823	421833
27W LED	RGB		10°,25°,40°	405341	405351

EMFA

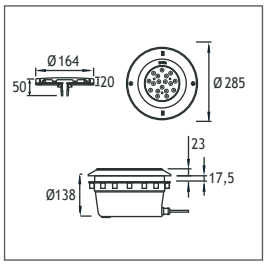
ATLANTIS 18 SWIMMING POOL LED FIXTURE
Class III IP68 IK10

Body
316L Stainless Steel Pipe
Frame
4 mm Polished Stainless Steel
Screws
316L Stainless Steel
Diffuser
8 mm Clear Glass
Gasket
Silicone
Remote Gear Box
240 VAC Class I
Control by DMX, remote control or push button

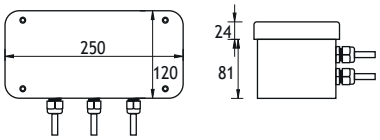


Voltage : 24V AC or DC
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 10 m 4x0,75 H03 VV-F



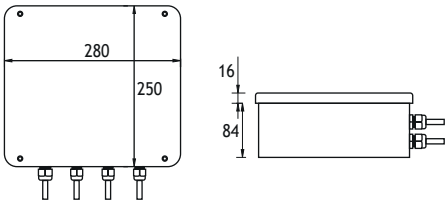


Power	Kelvin	Real Lumen Output	Lens	Code No
20W LED	2700 K	1710 lm	10°,25°,40°	408001
20W LED	3000 K	1710 lm	10°,25°,40°	408002
20W LED	4500 K	1744 lm	10°,25°,40°	408003
20W LED	6000 K	1779 lm	10°,25°,40°	408004



CODE NO 953702

SLIM IP 65 CONTROL BOX (For Max. 1 RGBox)
GLASS REINFORCED POLYESTER BODY



CODE NO 953703

WIDE IP 65 CONTROL BOX (For Max. 3 RGBoxes)
GLASS REINFORCED POLYESTER BODY

EMFA

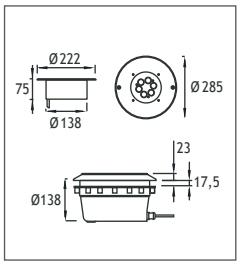
ATLANTIS 27 SWIMMING POOL LED FIXTURE
Class III IP68 IK10

Body
316L Stainless Steel Pipe
Frame
4 mm Polished Stainless Steel
Screws
316L Stainless Steel
Diffuser
8 mm Clear Glass
Gasket
Silicone
Remote Gear Box
240 VAC Class I
Control by DMX, remote control or push button

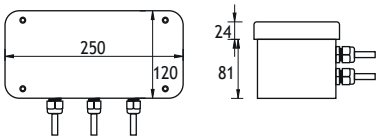


Voltage : 12V AC or DC (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 10 m 4x0,75 H03 VV-F



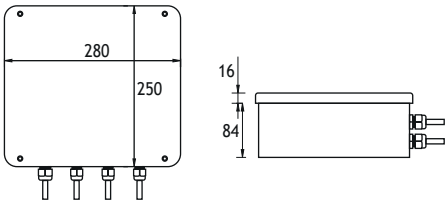


Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	405472
6W LED	3000 K	570 lm	10°,25°,40°	405471
6W LED	4500 K	581 lm	10°,25°,40°	405476
6W LED	6000 K	593 lm	10°,25°,40°	405477
9W LED	2700 K	855 lm	10°,25°,40°	405482
9W LED	3000 K	855 lm	10°,25°,40°	405481
9W LED	4500 K	872 lm	10°,25°,40°	405486
9W LED	6000 K	890 lm	10°,25°,40°	405487
18W LED	2700 K	1710 lm	10°,25°,40°	421704
18W LED	3000 K	1710 lm	10°,25°,40°	421701
18W LED	4500 K	1744 lm	10°,25°,40°	421702
18W LED	6000 K	1779 lm	10°,25°,40°	421703
27W LED	2700 K	2560 lm	10°,25°,40°	421714
27W LED	3000 K	2560 lm	10°,25°,40°	421711
27W LED	4500 K	2610 lm	10°,25°,40°	421712
27W LED	6000 K	2670 lm	10°,25°,40°	421713
27W LED	RGB		10°,25°,40°	425311



CODE NO 953702

SLIM IP 65 CONTROL BOX (For Max. 1 RGBox)
GLASS REINFORCED POLYESTER BODY



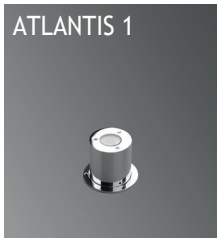
CODE NO 953703

WIDE IP 65 CONTROL BOX (For Max. 3 RGBoxes)
GLASS REINFORCED POLYESTER BODY



ATLANTIS

UNDERWATER RECESSED MOUNTED LED FIXTURES
Class III IP68 IK10









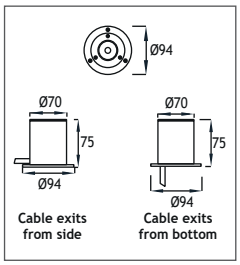
POWER LEDs

Voltage : 12V AC or DC (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5m 2x0,75 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

ATLANTIS 1

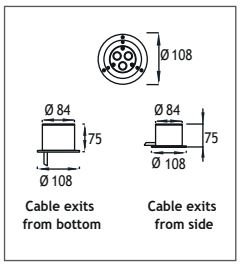




Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	405362
1W LED	3000 K	95 lm	10°,25°,40°	405361
1W LED	4500 K	97 lm	10°,25°,40°	405366
1W LED	6000 K	99 lm	10°,25°,40°	405367
3W LED	2700 K	285 lm	10°,25°,40°	421324
3W LED	3000 K	285 lm	10°,25°,40°	421321
3W LED	4500 K	290 lm	10°,25°,40°	421322
3W LED	6000 K	296 lm	10°,25°,40°	421323

ATLANTIS 2

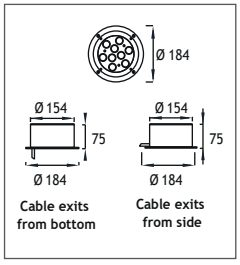




Power	Kelvin	Real Lumen Output	Lens	Code No
3W LED	2700 K	285 lm	10°,25°,40°	405372
3W LED	3000 K	285 lm	10°,25°,40°	405371
3W LED	4500 K	290 lm	10°,25°,40°	405376
3W LED	6000 K	296 lm	10°,25°,40°	405377
9W LED	2700 K	855 lm	10°,25°,40°	421334
9W LED	3000 K	855 lm	10°,25°,40°	421331
9W LED	4500 K	872 lm	10°,25°,40°	421332
9W LED	6000 K	890 lm	10°,25°,40°	421333
9W LED	RGB		10°,25°,40°	405201

ATLANTIS 5





Power	Kelvin	Real Lumen Output	Lens	Code No
9W LED	2700 K	855 lm	10°,25°,40°	405392
9W LED	3000 K	855 lm	10°,25°,40°	405391
9W LED	4500 K	872 lm	10°,25°,40°	405396
9W LED	6000 K	890 lm	10°,25°,40°	405397
27W LED	2700 K	2560 lm	10°,25°,40°	421854
27W LED	3000 K	2560 lm	10°,25°,40°	421851
27W LED	4500 K	2610 lm	10°,25°,40°	421852
27W LED	6000 K	2670 lm	10°,25°,40°	421853
27W LED	RGB		10°,25°,40°	405411

EMFA

ATLANTIS

UNDERWATER LED SPOT
Class III IP68 IK10









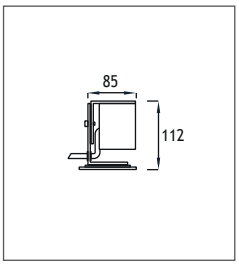
POWER LEDs

Voltage : 12V AC or DC (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5m 2x0,75 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

ATLANTIS 1

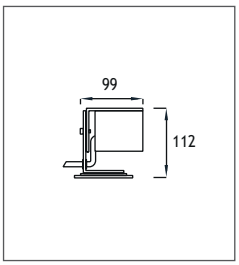




Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	405422
1W LED	3000 K	95 lm	10°,25°,40°	405421
1W LED	4500 K	97 lm	10°,25°,40°	405426
1W LED	6000 K	99 lm	10°,25°,40°	405427
3W LED	2700 K	285 lm	10°,25°,40°	405244
3W LED	3000 K	285 lm	10°,25°,40°	405241
3W LED	4500 K	290 lm	10°,25°,40°	405242
3W LED	6000 K	296 lm	10°,25°,40°	405243

ATLANTIS 2

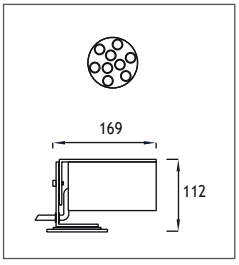




Power	Kelvin	Real Lumen Output	Lens	Code No
3W LED	2700 K	285 lm	10°,25°,40°	405254
3W LED	3000 K	285 lm	10°,25°,40°	405251
3W LED	4500 K	290 lm	10°,25°,40°	405252
3W LED	6000 K	296 lm	10°,25°,40°	405253
9W LED	2700 K	855 lm	10°,25°,40°	421344
9W LED	3000 K	855 lm	10°,25°,40°	421341
9W LED	4500 K	872 lm	10°,25°,40°	421342
9W LED	6000 K	890 lm	10°,25°,40°	421343
9W LED	RGB		10°,25°,40°	405431

ATLANTIS 5





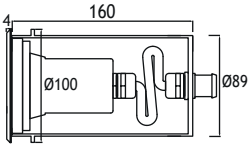
Power	Kelvin	Real Lumen Output	Lens	Code No
9W LED	2700 K	855 lm	10°,25°,40°	405452
9W LED	3000 K	855 lm	10°,25°,40°	405451
9W LED	4500 K	872 lm	10°,25°,40°	405456
9W LED	6000 K	890 lm	10°,25°,40°	405457
27W LED	2700 K	2560 lm	10°,25°,40°	421874
27W LED	3000 K	2560 lm	10°,25°,40°	421871
27W LED	4500 K	2610 lm	10°,25°,40°	421872
27W LED	6000 K	2670 lm	10°,25°,40°	421873
27W LED	RGB		10°,25°,40°	405461

INOX UNDERWATER RECESSED
Class III IP68

EMFA's Inox 1 Underwater spot is competely made of solid 316L stainless steel to withstand salt water and chlorine. The spot is specially designed to light fountains and water features. A special factory sealed cable is used to avoid any ingress of water. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also possible.



Body
316L marine grade stainless steel
Frame
316L marine grade stainless steel
Diffuser
Tempered Glass
Gaskets
Silicone
Screws
316L marine grade stainless steel
Gland
316L marine grade stainless steel



Stainless Steel Recessing Tube

HALOGEN

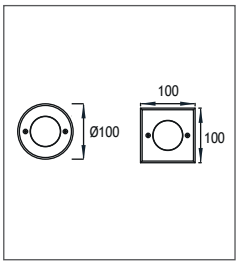
Lampholder : Gu 5.3
Reflector : -
Diffuser : 8 mm Tempered Glass

Transformer is not included.

Remote transformer should be used.

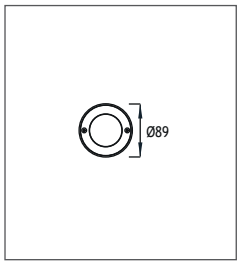
STEP MOUNTED





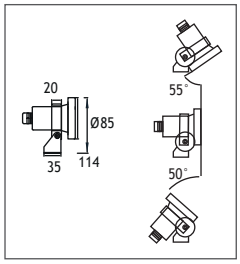
Power	Lampholder	Code No Round	Square
50W HALOGEN	Gu 5.3	134211	134201

FLUSH MOUNTED

Power	Lampholder	Code No
50W HALOGEN	Gu 5.3	134221

SPOT

Power	Lampholder	Code No
50W HALOGEN	Gu 5.3	134101

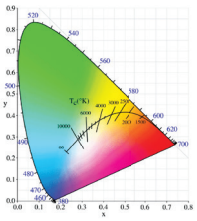
MIRA ATLANTIS

UNDERWATER RECESSED LED FIXTURES
Class III IP68 IK10

The Mira Atlantis Underwater series brings together the rectangular LED fixture called Mira with the underwater feature of the Atlantis. Engineered completely from marine grade stainless steel, 316L, this range is designed to light pools, fountains and water features with efficient LED lighting. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also available on request. The series comes as recessed or surface mount. The surface mounted version has heavy-duty stainless steel adjustable brackets for sturdy fixing. The bodies are filled with cast resin and a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The low voltage electronic LED driver is housed in the base of the fixture. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber or RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired underwater the light effect.



Cover
316L Stainless steel
Outer Body
316L Stainless steel
Body
Die cast aluminium
Diffusers
12 mm Tempered Glass
Gaskets
Silicone
Screws
316L Stainless steel
Recessing Box
Stainless steel



“Customization” is EMFA’s standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

MIRA ATLANTIS

UNDERWATER RECESSED LED FIXTURES
Class III IP68 IK10





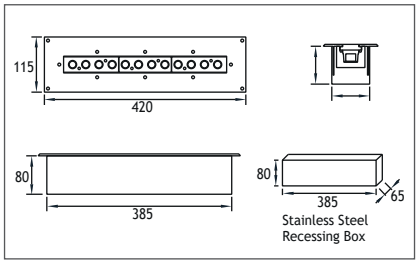


POWER LED

Voltage : 24V AC or DC
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 12 mm (Frosted Glass on request)
Cable : Potted 5m 2x0,75 H03 VV-F

MIRA ATLANTIS 1

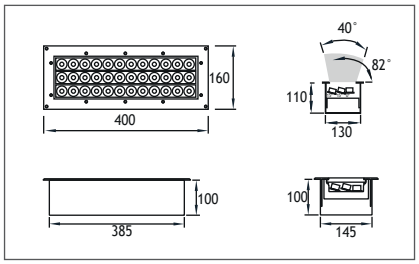




Power	Kelvin	Real Lumen Output	Lens	Code No
12W LED	2700 K	1140 lm	10°,25°,40°	429004
12W LED	3000 K	1140 lm	10°,25°,40°	429001
12W LED	4500 K	1162 lm	10°,25°,40°	429002
12W LED	6000 K	1185 lm	10°,25°,40°	429003
12W LED	RGB		10°,25°,40°	429011

MIRA ATLANTIS 2 15°+15°+0° ASYMMETRICAL

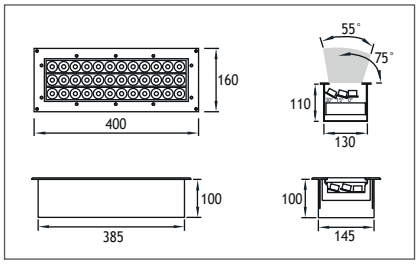




Power	Kelvin	Real Lumen Output	Lens	Code No
12W LED	2700 K	1140 lm	10°,25°,40°	429044
12W LED	3000 K	1140 lm	10°,25°,40°	429041
12W LED	4500 K	1162 lm	10°,25°,40°	429042
12W LED	6000 K	1185 lm	10°,25°,40°	429043
12W LED	RGB		10°,25°,40°	429041

MIRA ATLANTIS 2 15°+15°+0° ASYMMETRICAL





Power	Kelvin	Real Lumen Output	Lens	Code No
36W LED	2700 K	3420 lm	10°,25°,40°	429064
36W LED	3000 K	3420 lm	10°,25°,40°	429061
36W LED	4500 K	3520 lm	10°,25°,40°	429062
36W LED	6000 K	3930 lm	10°,25°,40°	429063
36W LED	RGB		10°,25°,40°	429071

EMFA

MIRA ATLANTIS

UNDERWATER SURFACE MOUNTED LED FIXTURES
Class III IP68 IK10



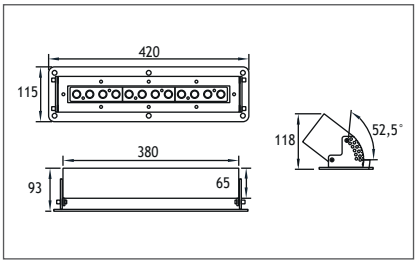


POWER LED

Voltage : 24V AC or DC
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 12 mm (Frosted Glass on request)
Cable : Potted 5m 2x0,75 H03 VV-F

MIRA ATLANTIS 1 SURFACE MOUNTED

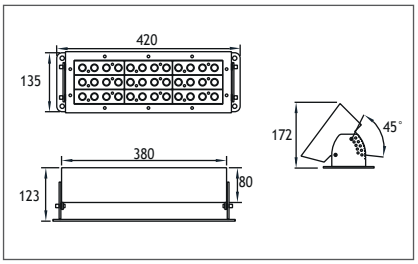




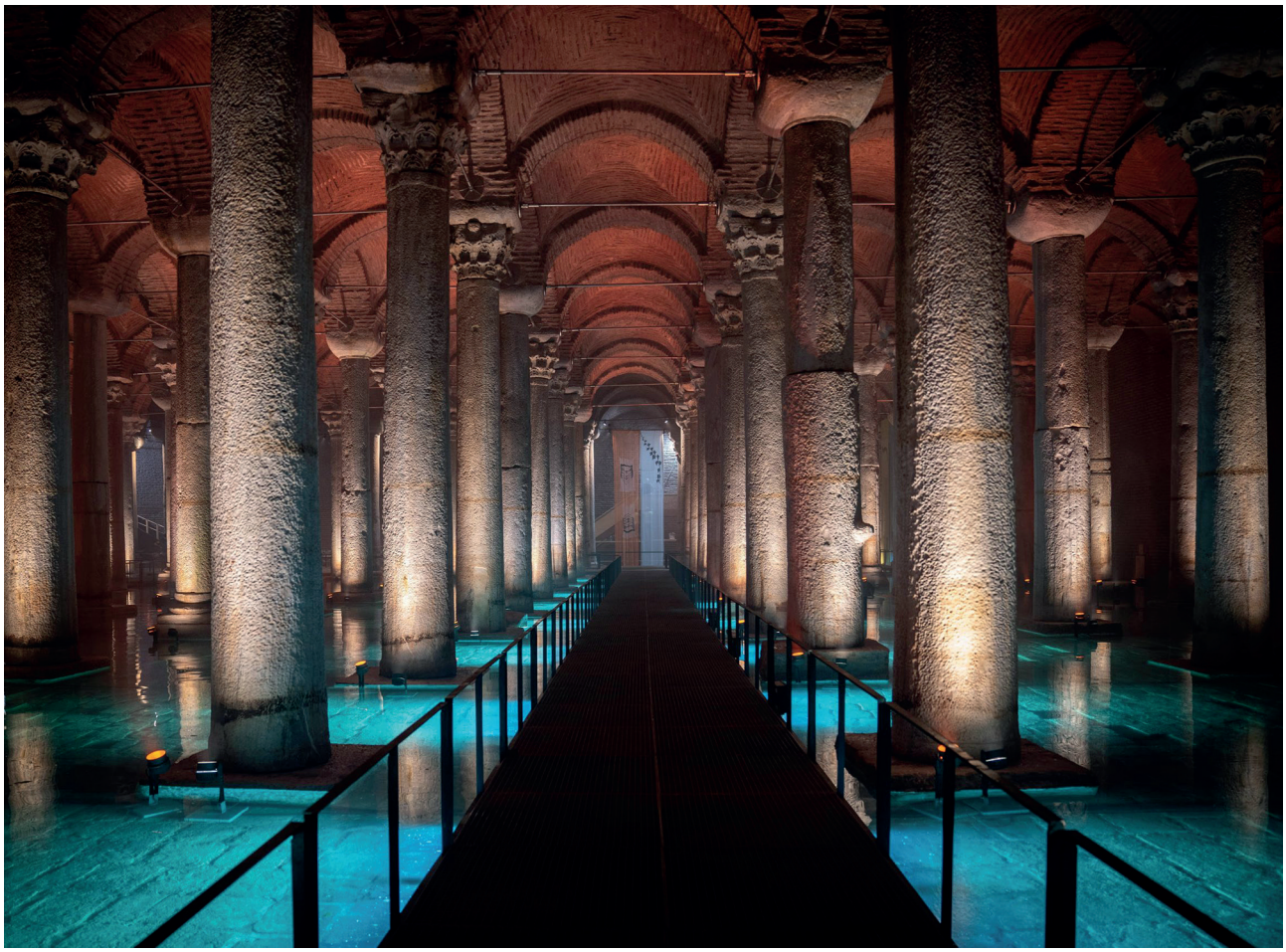
Power	Kelvin	Real Lumen Output	Lens	Code No
12W LED	2700 K	1140 lm	10°,25°,40°	429024
12W LED	3000 K	1140 lm	10°,25°,40°	429021
12W LED	4500 K	1162 lm	10°,25°,40°	429022
12W LED	6000 K	1185 lm	10°,25°,40°	429023
12W LED	RGB		10°,25°,40°	429031

MIRA ATLANTIS 2 SURFACE MOUNTED





Power	Kelvin	Real Lumen Output	Lens	Code No
36W LED	2700 K	3420 lm	10°,25°,40°	429084
36W LED	3000 K	3420 lm	10°,25°,40°	429081
36W LED	4500 K	3520 lm	10°,25°,40°	429082
36W LED	6000 K	3930 lm	10°,25°,40°	429083
36W LED	RGB		10°,25°,40°	429091



Stainless Steel Outdoor



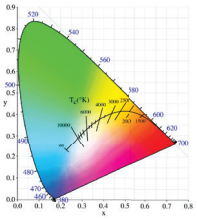
ATLANTIS

NEARWATER LED FIXTURES
Class III IP67 IK10

The Atlantis Near Water series is specially designed to light objects around pools, fountains, and water features or near the sea with high power LED light. The series is made of solid 316L stainless steel and can therefore withstand these rough environments. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also possible. The series comes as recessed, surface mount or spots. The spots are heavy duty with stainless steel brackets for sturdy fixing. A specially developed power cable ensures for a long lifetime in extreme conditions without any ingress of water. The low voltage electronic LED driver is housed in the base of the fixture. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber or RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.

Frame
316L Stainless Steel
Body
316L Stainless Steel
Recessing Tube
Aluminium
Gaskets
Silicone
Diffusers
Tempered Glass
Screws
Stainless Steel
Mounting Brackets
316L Stainless Steel





"Customization" is EMFA's standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



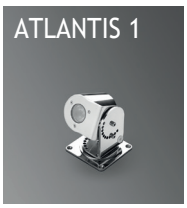


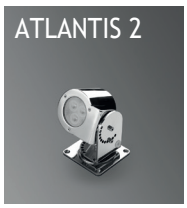


















LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50ºC. The LEDs are mounted on metal core pcbs, which are mounted to the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

ATLANTIS

NEARWATER LED FIXTURES
Class III IP67 IK10







POWER LED

Voltage : 12V AC or DC (24V AC or DC on request)

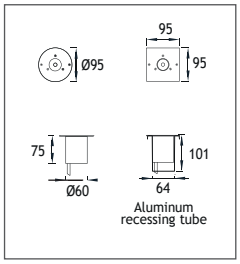
Lens : 10°, 25°, 40°

Diffuser : 8 mm Clear Glass
(Frosted Glass on request)

Cable : Potted 5m 2x0,75 H03 VV-F

ATLANTIS 1

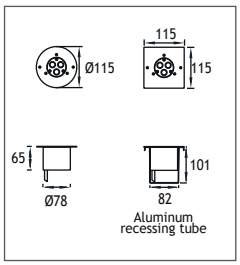




Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
1W LED	2700 K	95 lm	10°,25°,40°	412102	412112
1W LED	3000 K	95 lm	10°,25°,40°	412101	412111
1W LED	4500 K	97 lm	10°,25°,40°	412106	412116
1W LED	6000 K	99 lm	10°,25°,40°	412107	412117
3W LED	2700 K	285 lm	10°,25°,40°	421224	421234
3W LED	3000 K	285 lm	10°,25°,40°	421221	421231
3W LED	4500 K	290 lm	10°,25°,40°	421222	421232
3W LED	6000 K	296 lm	10°,25°,40°	421223	421233

ATLANTIS 2

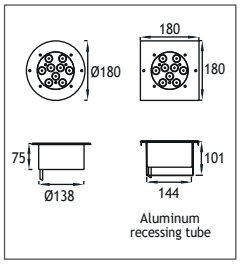




Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
3W LED	2700 K	285 lm	10°,25°,40°	421122	412132
3W LED	3000 K	285 lm	10°,25°,40°	421121	412131
3W LED	4500 K	290 lm	10°,25°,40°	421126	412136
3W LED	6000 K	296 lm	10°,25°,40°	421127	412137
9W LED	2700 K	855 lm	10°,25°,40°	421364	421364
9W LED	3000 K	855 lm	10°,25°,40°	421361	421361
9W LED	4500 K	872 lm	10°,25°,40°	421362	421362
9W LED	6000 K	890 lm	10°,25°,40°	421363	421363
9W LED	RGB		10°,25°,40°	412141	412151

ATLANTIS 5



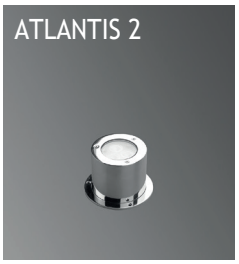


Power	Kelvin	Real Lumen Output	Lens	Code No Round	Square
9W LED	2700 K	855 lm	10°,25°,40°	412182	412192
9W LED	3000 K	855 lm	10°,25°,40°	412181	412191
9W LED	4500 K	872 lm	10°,25°,40°	412186	412196
9W LED	6000 K	890 lm	10°,25°,40°	412187	412197
27W LED	2700 K	2560 lm	10°,25°,40°	421914	421924
27W LED	3000 K	2560 lm	10°,25°,40°	421911	421921
27W LED	4500 K	2610 lm	10°,25°,40°	421912	421922
27W LED	6000 K	2670 lm	10°,25°,40°	421913	421923
27W LED	RGB		10°,25°,40°	412201	412211

ATLANTIS

NEARWATER SURFACE MOUNTED LED FIXTURES
Class III IP67 IK10







POWER LED

Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

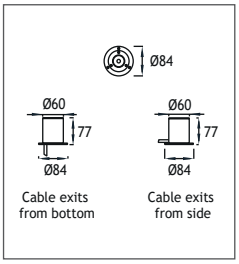
Diffuser : 8 mm Clear Glass
(Frosted Glass on request)

Cable : Potted 5m 2x0,75 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

ATLANTIS 1

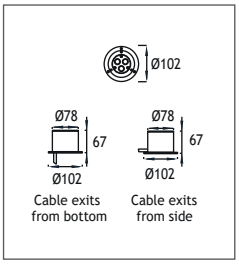




Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	412222
1W LED	3000 K	95 lm	10°,25°,40°	412221
1W LED	4500 K	97 lm	10°,25°,40°	412226
1W LED	6000 K	99 lm	10°,25°,40°	412227
3W LED	2700 K	285 lm	10°,25°,40°	421244
3W LED	3000 K	285 lm	10°,25°,40°	421241
3W LED	4500 K	290 lm	10°,25°,40°	421242
3W LED	6000 K	296 lm	10°,25°,40°	421243

ATLANTIS 2

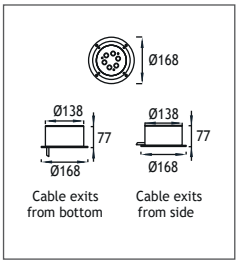




Power	Kelvin	Real Lumen Output	Lens	Code No
3W LED	2700 K	285 lm	10°,25°,40°	412232
3W LED	3000 K	285 lm	10°,25°,40°	412231
3W LED	4500 K	290 lm	10°,25°,40°	412236
3W LED	6000 K	296 lm	10°,25°,40°	412237
9W LED	2700 K	855 lm	10°,25°,40°	421374
9W LED	3000 K	855 lm	10°,25°,40°	421371
9W LED	4500 K	872 lm	10°,25°,40°	421372
9W LED	6000 K	890 lm	10°,25°,40°	421373
9W LED	RGB		10°,25°,40°	412241

ATLANTIS 5





Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	412252
6W LED	3000 K	570 lm	10°,25°,40°	412251
6W LED	4500 K	581 lm	10°,25°,40°	412256
6W LED	6000 K	593 lm	10°,25°,40°	412257
18W LED	2700 K	1710 lm	10°,25°,40°	421934
18W LED	3000 K	1710 lm	10°,25°,40°	421931
18W LED	4500 K	1744 lm	10°,25°,40°	421932
18W LED	6000 K	1779 lm	10°,25°,40°	421933
27W LED	40V DC RGB		10°,25°,40°	412271

EMFA

ATLANTIS

NEARWATER SURFACE MOUNTED LED FIXTURES
Class III IP67 IK10





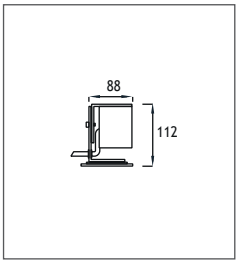
POWER LED

Voltage : 12V AC or DC (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5m 2x0,75 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

ATLANTIS 1

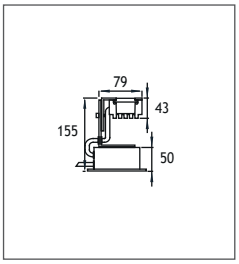




Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	412282
1W LED	3000 K	95 lm	10°,25°,40°	412281
1W LED	4500 K	97 lm	10°,25°,40°	412286
1W LED	6000 K	99 lm	10°,25°,40°	412287
3W LED	2700 K	285 lm	10°,25°,40°	421254
3W LED	3000 K	285 lm	10°,25°,40°	421251
3W LED	4500 K	290 lm	10°,25°,40°	421252
3W LED	6000 K	296 lm	10°,25°,40°	421253

ATLANTIS 1

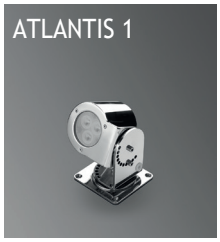


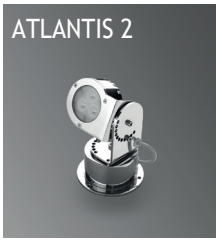


Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	421264
1W LED	3000 K	95 lm	10°,25°,40°	421261
1W LED	4500 K	97 lm	10°,25°,40°	421266
1W LED	6000 K	99 lm	10°,25°,40°	421267
3W LED	2700 K	285 lm	10°,25°,40°	421374
3W LED	3000 K	285 lm	10°,25°,40°	421371
3W LED	4500 K	290 lm	10°,25°,40°	421372
3W LED	6000 K	296 lm	10°,25°,40°	421373

ATLANTIS

NEARWATER LED SPOT
Class III IP67 IK10











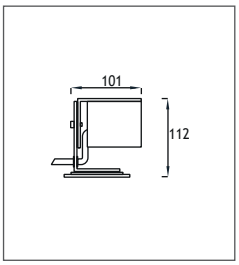
POWER LEDs

Voltage : 12V AC or DC (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5m 2x0,75 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

ATLANTIS 2 NEAR WATER LED SPOT

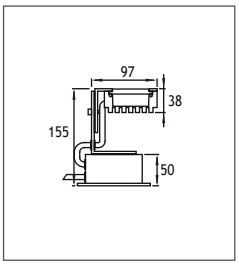




Power	Kelvin	Real Lumen Output	Lens	Code No
3W LED	2700 K	285 lm	10°,25°,40°	412292
3W LED	3000 K	285 lm	10°,25°,40°	412291
3W LED	4500 K	290 lm	10°,25°,40°	412296
3W LED	6000 K	296 lm	10°,25°,40°	412297
9W LED	2700 K	855 lm	10°,25°,40°	421384
9W LED	3000 K	855 lm	10°,25°,40°	421381
9W LED	4500 K	872 lm	10°,25°,40°	421382
9W LED	6000 K	890 lm	10°,25°,40°	421383
9W LED	RGB		10°,25°,40°	412301

ATLANTIS 1 NEAR WATER LED SPOT

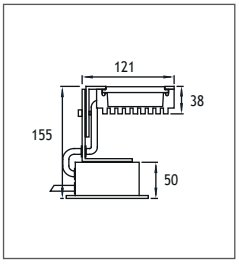




Power	Kelvin	Real Lumen Output	Lens	Code No
3W LED	2700 K	285 lm	10°,25°,40°	421394
3W LED	3000 K	285 lm	10°,25°,40°	421391
3W LED	4500 K	290 lm	10°,25°,40°	421392
3W LED	6000 K	296 lm	10°,25°,40°	412393
9W LED	2700 K	855 lm	10°,25°,40°	421404
9W LED	3000 K	855 lm	10°,25°,40°	421401
9W LED	4500 K	872 lm	10°,25°,40°	421402
9W LED	6000 K	890 lm	10°,25°,40°	421403
9W LED	RGB		10°,25°,40°	412411

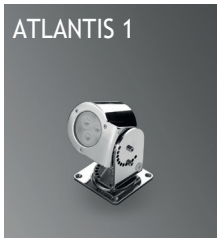
ATLANTIS 3

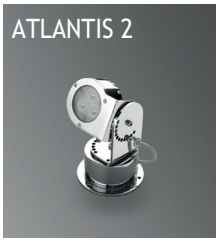




Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	421504
6W LED	3000 K	570 lm	10°,25°,40°	421501
6W LED	4500 K	581 lm	10°,25°,40°	421502
6W LED	6000 K	593 lm	10°,25°,40°	421503
18W LED	2700 K	1710 lm	10°,25°,40°	421514
18W LED	3000 K	1710 lm	10°,25°,40°	421511
18W LED	4500 K	1744 lm	10°,25°,40°	421512
18W LED	6000 K	1779 lm	10°,25°,40°	421513

ATLANTIS NEARWATER LED SPOT
Class III IP67 IK10











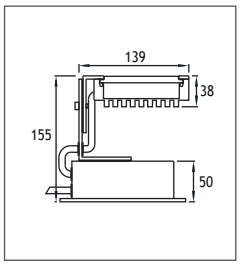
POWER LEDs

Voltage : 12V AC or DC (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5m 2x0,75 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

ATLANTIS 4

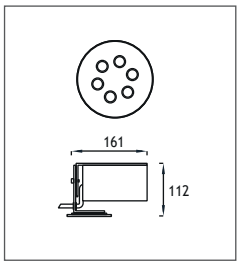




Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	421604
6W LED	3000 K	570 lm	10°,25°,40°	421601
6W LED	4500 K	581 lm	10°,25°,40°	421602
6W LED	6000 K	593 lm	10°,25°,40°	421603
18W LED	2700 K	1710 lm	10°,25°,40°	421614
18W LED	3000 K	1710 lm	10°,25°,40°	421611
18W LED	4500 K	1744 lm	10°,25°,40°	421612
18W LED	6000 K	1779 lm	10°,25°,40°	421613

ATLANTIS 5 NEAR WATER LED SPOT

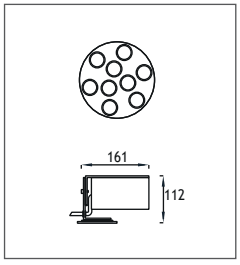




Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	412312
6W LED	3000 K	570 lm	10°,25°,40°	412311
6W LED	4500 K	581 lm	10°,25°,40°	412316
6W LED	6000 K	593 lm	10°,25°,40°	412317
18W LED	2700 K	1710 lm	10°,25°,40°	421964
18W LED	3000 K	1710 lm	10°,25°,40°	421961
18W LED	4500 K	1744 lm	10°,25°,40°	421962
18W LED	6000 K	1779 lm	10°,25°,40°	421963

ATLANTIS 5 NEAR WATER LED SPOT

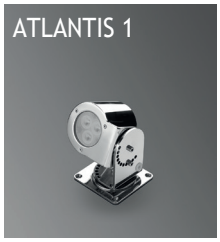


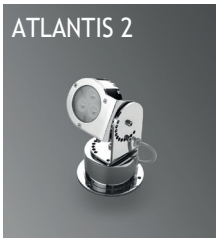


Power	Kelvin	Real Lumen Output	Lens	Code No
9W LED	2700 K	855 lm	10°,25°,40°	412322
9W LED	3000 K	855 lm	10°,25°,40°	412321
9W LED	4500 K	872 lm	10°,25°,40°	412326
9W LED	6000 K	890 lm	10°,25°,40°	412327
27W LED	2700 K	2560 lm	10°,25°,40°	421954
27W LED	3000 K	2560 lm	10°,25°,40°	421951
27W LED	4500 K	2610 lm	10°,25°,40°	421952
27W LED	6000 K	2670 lm	10°,25°,40°	421953
27W LED	RGB		10°,25°,40°	412331

ATLANTIS

NEARWATER LED SPOT
Class III IP67 IK10











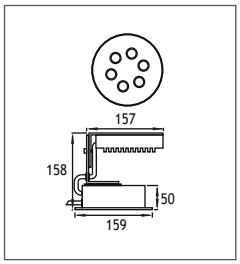
POWER LEDs

Voltage : 12V AC or DC (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5m 2x0,75 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red

ATLANTIS 5 NEAR WATER LED SPOT

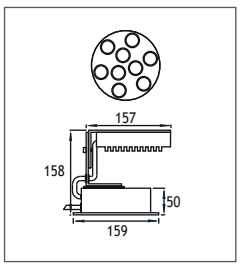




Power	Kelvin	Real Lumen Output	Lens	Code No	Code No
6W LED	2700 K	570 lm	10°,25°,40°	421604	412342
6W LED	3000 K	570 lm	10°,25°,40°	421601	412341
6W LED	4500 K	581 lm	10°,25°,40°	421602	412346
6W LED	6000 K	593 lm	10°,25°,40°	421603	412347
18W LED	2700 K	1710 lm	10°,25°,40°	421614	421974
18W LED	3000 K	1710 lm	10°,25°,40°	421611	421971
18W LED	4500 K	1744 lm	10°,25°,40°	421612	421972
18W LED	6000 K	1779 lm	10°,25°,40°	421613	421973

ATLANTIS 5 NEAR WATER LED SPOT





Power	Kelvin	Real Lumen Output	Lens	Code No	Code No
9W LED	2700 K	855 lm	10°,25°,40°	412322	412352
9W LED	3000 K	855 lm	10°,25°,40°	412321	412351
9W LED	4500 K	872 lm	10°,25°,40°	412326	412356
9W LED	6000 K	890 lm	10°,25°,40°	412327	412357
27W LED	2700 K	2560 lm	10°,25°,40°	421954	421984
27W LED	3000 K	2560 lm	10°,25°,40°	421951	421981
27W LED	4500 K	2610 lm	10°,25°,40°	421952	421982
27W LED	6000 K	2670 lm	10°,25°,40°	421953	421983
27W LED	RGB		10°,25°,40°	412331	412361

EMFA

ATLANTIS

MARINE BOLLARD
Class I IP65 IK08

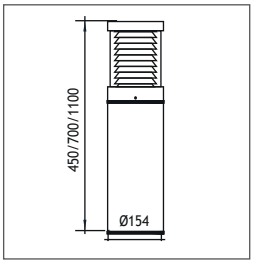
HALOGEN or LINEAR LED

Head : 316L Stainless Steel
Diffuser : Clear Polycarbonate
Pipe : 316L Stainless Steel
Isolation Belt : Polycarbonate
Finish : Polished or Brushed



POLISHED

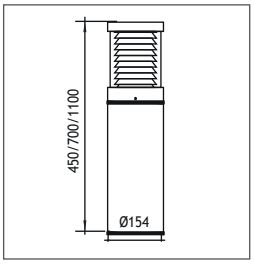




Power	Code No 45 cm	70 cm	1100 cm
LINEAR LED 4W	409001	409101	409201

POLISHED

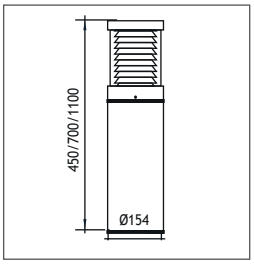




Power	Lampholder	45 cm	Code No 70 cm	110 cm
ELECTRONIC FLUO 23W	E27	409011	409111	409211
FLUO 26W	G24 q-3	409021	409121	409221

BRUSHED

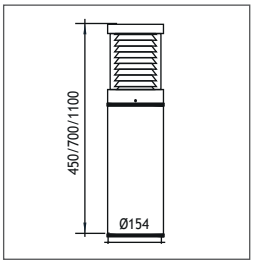




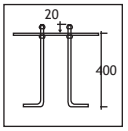
Power	Code No 45 cm	70 cm	110 cm
LINEAR LED 4W	410001	410101	410201

BRUSHED





Power	Lampholder	45 cm	Code No 70 cm	110 cm
ELECTRONIC FLUO 23W	E27	410011	410111	410211
FLUO 26W	G24 q-3	410011	410121	410221



For ATLANTIS **Anchor** Code No: 955201

EMFA

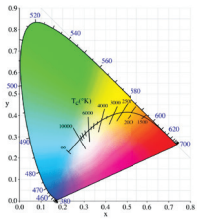


INOX LED APPLIQUES
Class I IP65 IK08

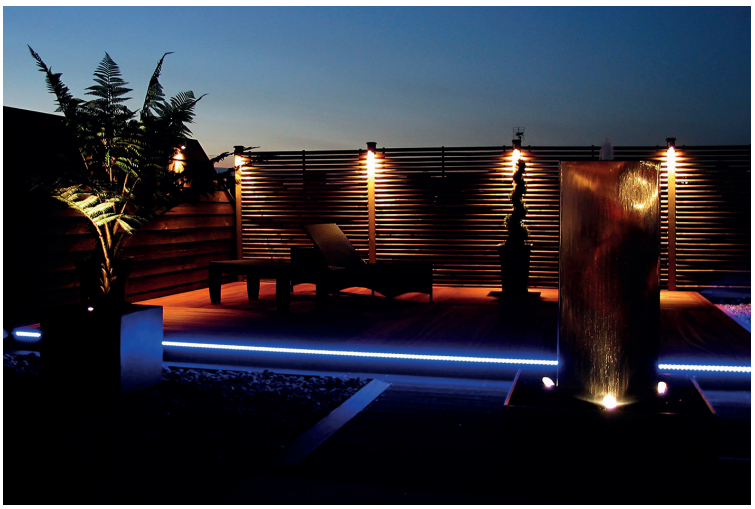
The Inox Applique series consists of a range of LED, metal halide and halogen sources to deliver the desired light effect to facedes and columns. The series is made of die cast aluminium and extrusion aluminium painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.



Pipe
316L Stainless Steel
Body
316L Stainless Steel
Cover
316L Stainless Steel
Finish
Polished
Diffusers
Tempered Glass
Gaskets
Silicone
Connection
IP connection box



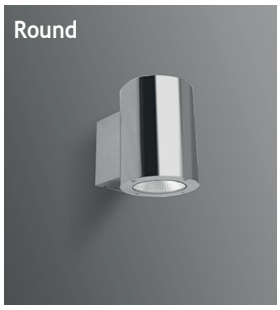
“Customization” is EMFA’s standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

INOX ONE WAY LED APPLIQUES
Class I IP65 IK08



CREE COB LED

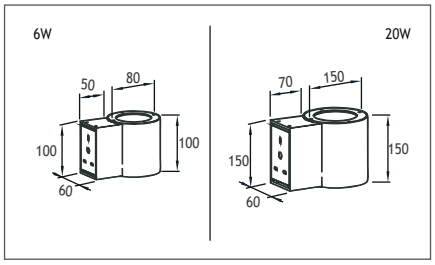
Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F

INOX 1

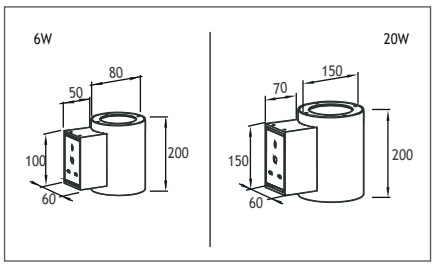




Power	Kelvin	Lens	Code No
6W LED	2700 K	24°,36°,60°	135003
6W LED	3000 K	24°,36°,60°	135001
6W LED	4000 K	24°,36°,60°	135002
20W LED	2700 K	24°,36°,60°	135013
20W LED	3000 K	24°,36°,60°	135011
20W LED	4000 K	24°,36°,60°	135012

INOX 2

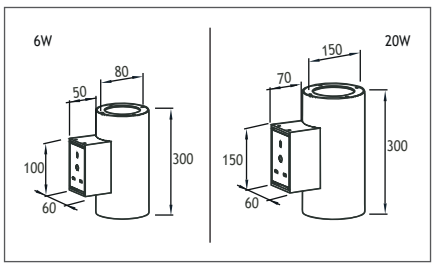




Power	Kelvin	Lens	Code No
6W LED	2700 K	24°,36°,60°	135023
6W LED	3000 K	24°,36°,60°	135021
6W LED	4000 K	24°,36°,60°	135022
20W LED	2700 K	24°,36°,60°	135033
20W LED	3000 K	24°,36°,60°	135031
20W LED	4000 K	24°,36°,60°	135032

INOX 3





Power	Kelvin	Lens	Code No
6W LED	2700 K	24°,36°,60°	135043
6W LED	3000 K	24°,36°,60°	135041
6W LED	4000 K	24°,36°,60°	135042
20W LED	2700 K	24°,36°,60°	135053
20W LED	3000 K	24°,36°,60°	135051
20W LED	4000 K	24°,36°,60°	135052

EMFA

INOX

ONE WAY LED APPLIQUES
Class I IP65 IK08



CREE COB LED

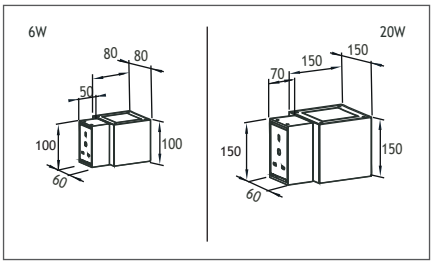
Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F

INOX 1

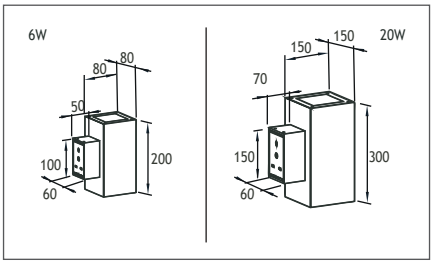




Power	Kelvin	Lens	Code No
6W LED	2700 K	24°,36°,60°	135203
6W LED	3000 K	24°,36°,60°	135201
6W LED	4000 K	24°,36°,60°	135202
20W LED	2700 K	24°,36°,60°	135213
20W LED	3000 K	24°,36°,60°	135211
20W LED	4000 K	24°,36°,60°	135212

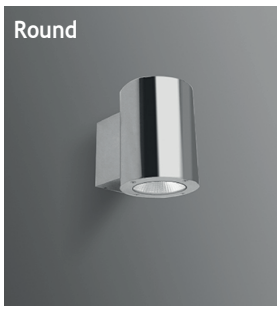
INOX 2





Power	Kelvin	Lens	Code No
6W LED	2700 K	24°,36°,60°	135223
6W LED	3000 K	24°,36°,60°	135221
6W LED	4000 K	24°,36°,60°	135222
20W LED	2700 K	24°,36°,60°	135233
20W LED	3000 K	24°,36°,60°	135231
20W LED	4000 K	24°,36°,60°	135232

INOX TWO WAY LED APPLIQUES
Class I IP65 IK08



CREE COB LED

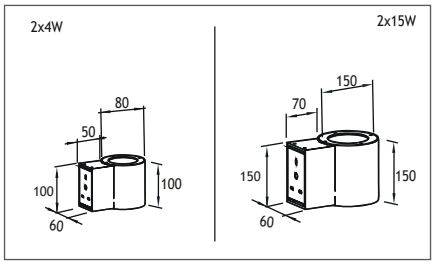
Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F

INOX 1

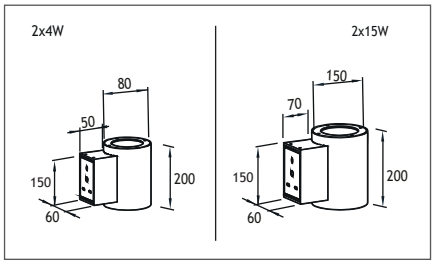




Power	Kelvin	Lens	Code No
6W LED	2700 K	24°,36°,60°	135103
6W LED	3000 K	24°,36°,60°	135101
6W LED	4000 K	24°,36°,60°	135102
20W LED	2700 K	24°,36°,60°	135113
20W LED	3000 K	24°,36°,60°	135111
20W LED	4000 K	24°,36°,60°	135112

INOX 2

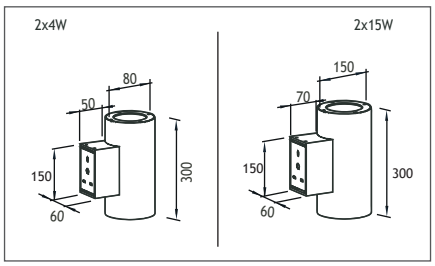




Power	Kelvin	Lens	Code No
4W LED	2700 K	24°,36°,60°	135123
4W LED	3000 K	24°,36°,60°	135121
4W LED	4000 K	24°,36°,60°	135122
15W LED	2700 K	24°,36°,60°	135133
15W LED	3000 K	24°,36°,60°	135131
15W LED	4000 K	24°,36°,60°	135132

INOX 3





Power	Kelvin	Lens	Code No
4W LED	2700 K	24°,36°,60°	135143
4W LED	3000 K	24°,36°,60°	135141
4W LED	4000 K	24°,36°,60°	135142
15W LED	2700 K	24°,36°,60°	135153
15W LED	3000 K	24°,36°,60°	135151
15W LED	4000 K	24°,36°,60°	135152

EMFA

INOX TWO WAY LED APPLIQUES
Class I IP65 IK08



CREE COB LED

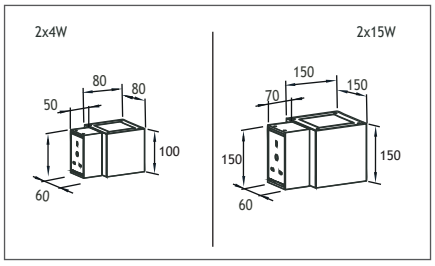
Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F

INOX 1

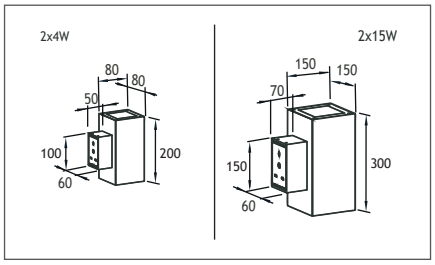




Power	Kelvin	Lens	Code No Polished	Brushed
4W or 15W LED	2700 K	24°,36°,60°	135303	135313
4W or 15W LED	3000 K	24°,36°,60°	135301	135311
4W or 15W LED	4000 K	24°,36°,60°	135302	135312

INOX 2





Power	Kelvin	Lens	Code No Polished	Brushed
4W or 15W LED	2700 K	24°,36°,60°	135323	135333
4W or 15W LED	3000 K	24°,36°,60°	135321	135331
4W or 15W LED	4000 K	24°,36°,60°	135322	135332

INOX SURFACE MOUNTED CEILING FIXTURES
Class I IP65 IK08

The Inox surface series consists of a range of LED, metal halide and halogen sources to deliver the desired light effect to facedes and columns. The series is made of die cast aluminium and extrusion aluminium painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.



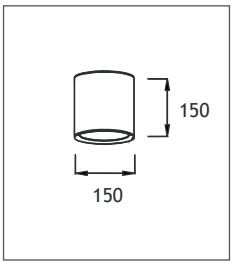
Body
316L Stainless Steel
Cover
316L Stainless Steel
Diffuser
Tempered Glass
Pipe
316L Stainless Steel
Isolation Belt
Polycarbonate
Finish
Polished
Gaskets
Silicone
Connection
IP connection box

CREE COB LED

Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 24° / 36° / 60°
Cable : Potted 5 m 3x0,75 H03 VV-F

INOX 1

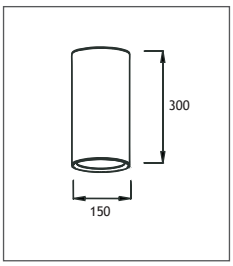




Power	Kelvin	Lens	Code No Polished	Brushed
15W or 20W LED	2700 K	24°,36°,60°	136003	136013
15W or 20W LED	3000 K	24°,36°,60°	136001	136011
15W or 20W LED	4000 K	24°,36°,60°	136002	136012

INOX 2





Power	Kelvin	Lens	Code No Polished	Brushed
15W or 20W LED	2700 K	24°,36°,60°	136023	136033
15W or 20W LED	3000 K	24°,36°,60°	136021	136031
15W or 20W LED	4000 K	24°,36°,60°	136022	136032

Downlights



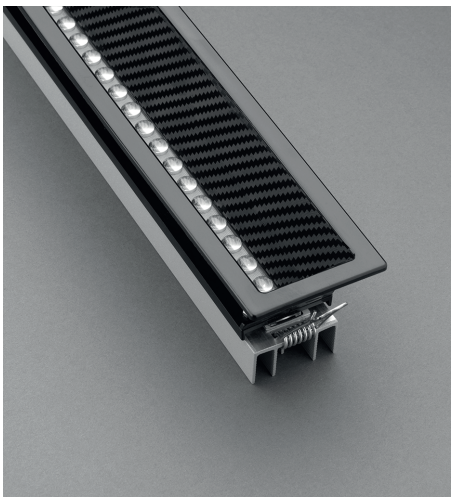
PINARA

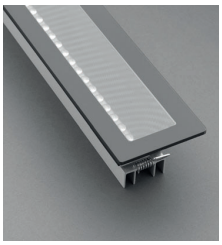
LINEAR LED DOWNLIGHT
Class II IP20

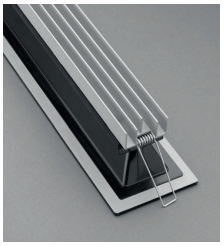
Available in any of these RAL colors

Black White

The PINARA LED downlight is specially designed to deliver high output LED light with very clean beam angles to corridors, hotel rooms, museums and general lighting of public spaces. The Nichia LEDs in the PINARA are very efficient and have a high CRI (90). The unique lens that is used in this fixture creates very sharp beams that minimize the spill of uncontrolled light from the fixture. This reduces the glare of the fixture and gives more control to the architects and designers.



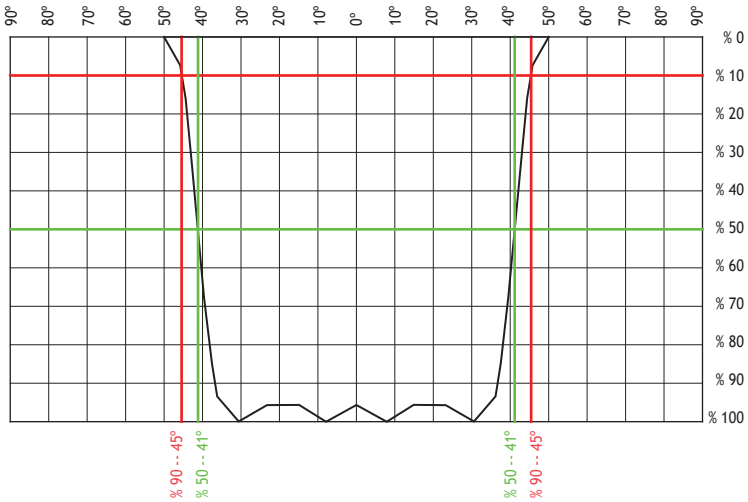




Body
Polycarbonate
Heatsing
Aluminium extrusion profile
Diffuser
With clear or frosted tempered glass, without glass
Springs
Steel
Cable
0.5 m exiting top of fixture
Gear
Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)

Application
Symmetrical and asymmetrical lighting for general lighting such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies.

"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 standard paint colors, 2 white tones, 2 wattages are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

PINARA

LINEAR LED DOWNLIGHT
Class II IP20

Available in any of these RAL colors

Black White

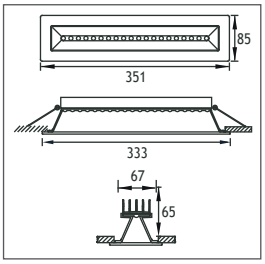


POWER LED

Led : 350 - 500 - 700 mA (Nichia)
Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver and
DALI Driver available on request)
Diffuser : Clear of frosted tempered Glass
Cable : 0.5 m 2x0,75 mm H03 VV-F

PINARA 1 CLEAR OR FROSTED TEMPERED GLASS

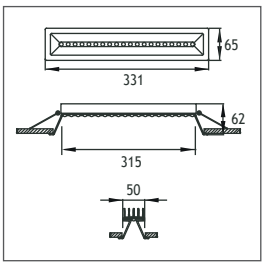




Power	Kelvin	Real Lumen Output	Code No
10W LED	2700 K	950 lm	392001
10W LED	3000 K	950 lm	392002
10W LED	4000 K	968 lm	392003
15W LED	2700 K	1425 lm	392011
15W LED	3000 K	1425 lm	392012
15W LED	4000 K	1453 lm	392013
21W LED	2700 K	1995 lm	392021
21W LED	3000 K	1995 lm	392022
21W LED	4000 K	2053 lm	392023

PINARA 2 SYMMETRICAL

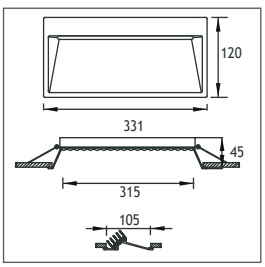




Power	Kelvin	Real Lumen Output	Code No
10W LED	2700 K	950 lm	392101
10W LED	3000 K	950 lm	392102
10W LED	4000 K	968 lm	392103
15W LED	2700 K	1425 lm	392111
15W LED	3000 K	1425 lm	392112
15W LED	4000 K	1453 lm	392113
21W LED	2700 K	1995 lm	392121
21W LED	3000 K	1995 lm	392122
21W LED	4000 K	2053 lm	392123

PINARA 2 ASYMMETRICAL





Power	Kelvin	Real Lumen Output	Code No
10W LED	2700 K	950 lm	392201
10W LED	3000 K	950 lm	392202
10W LED	4000 K	968 lm	392203
15W LED	2700 K	1425 lm	392211
15W LED	3000 K	1425 lm	392212
15W LED	4000 K	1453 lm	392213
21W LED	2700 K	1995 lm	392221
21W LED	3000 K	1995 lm	392222
21W LED	4000 K	2053 lm	392223

PINARA

TRIMLESS LINEAR LED DOWNLIGHT
Class II IP20

Available in any of these RAL colors

Black White

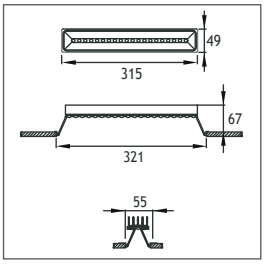


POWER LED

Led : 350 - 500 - 700 mA (Nichia)
Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver and
DALI Driver available on request)
Diffuser : Clear of frosted tempered Glass
Cable : 0.5 m 2x0,75 mm H03 VV-F

PINARA SYMMETRICAL TRIMLESS

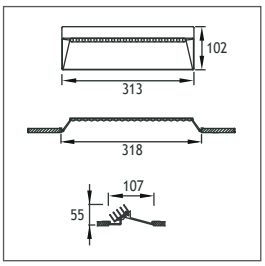




Power	Kelvin	Real Lumen Output	Code No
10W LED	2700 K	950 lm	393001
10W LED	3000 K	950 lm	393002
10W LED	4000 K	968 lm	393003
15W LED	2700 K	1425 lm	393011
15W LED	3000 K	1425 lm	393012
15W LED	4000 K	1453 lm	393013
21W LED	2700 K	1995 lm	393021
21W LED	3000 K	1995 lm	393022
21W LED	4000 K	2053 lm	393023

PINARA ASYMMETRICAL TRIMLESS





Power	Kelvin	Real Lumen Output	Code No
10W LED	2700 K	950 lm	393101
10W LED	3000 K	950 lm	393102
10W LED	4000 K	968 lm	393103
15W LED	2700 K	1425 lm	393111
15W LED	3000 K	1425 lm	393112
15W LED	4000 K	1453 lm	393113
21W LED	2700 K	1995 lm	393121
21W LED	3000 K	1995 lm	393122
21W LED	4000 K	2053 lm	393123

EMFA



HARPUT

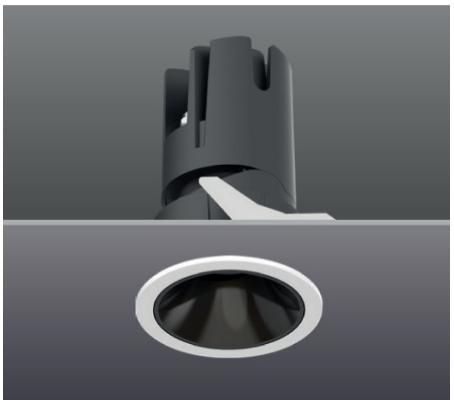
LED DOWNLIGHT
Class II IP65/20

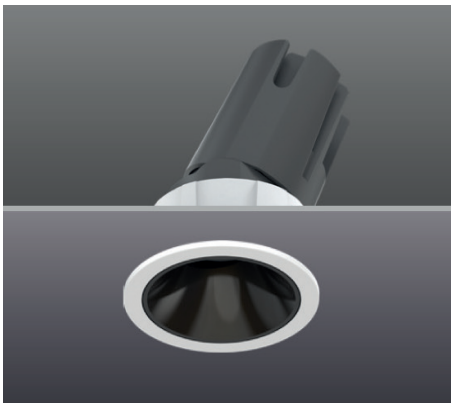
Available in any of these RAL colors

Black White

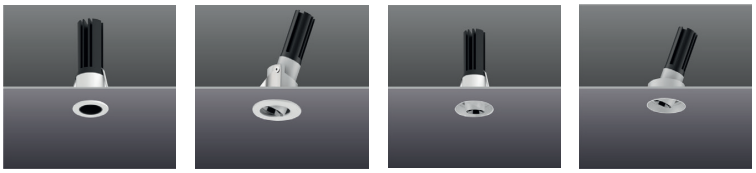
The Harput LED downlight is specially designed to deliver high output LED light with very clean beam angles to corridors, hotel rooms, museums and general lighting of public spaces. The LEDs used in the HARPUT are very efficient and have a high CRI (90). The unique lens that is used in this fixture creates very sharp beams that minimize the spill of uncontrolled light from the fixture. This reduces the glare of the fixture and gives more control to the architects and designers.

Body : Aliminium
Heatsing : Aluminium
Diffuser : With clear or frosted tempered Glass
Springs : Steel
Cable : 0.5 m exiting top of fixture
Gear : 240V Non-Dimmable electronic LED driver
(1-10V Dimmable and DALI drivers available on request)



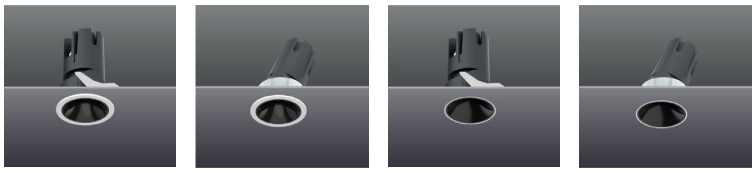


HARPUT MINI



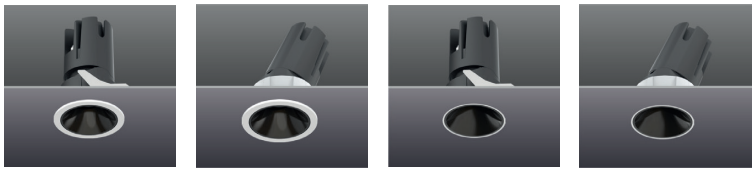
Fixed | Adjustable | Trimless Fixed | Trimless Adjustable

HARPUT 2



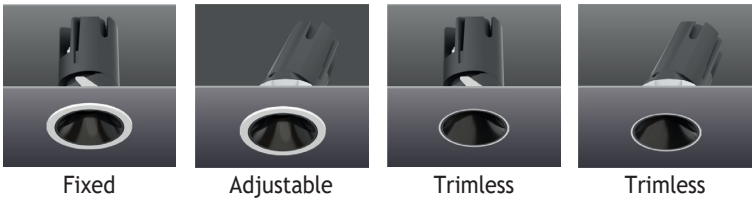
Fixed | Adjustable | Trimless Fixed | Trimless Adjustable

HARPUT 3



Fixed | Adjustable | Trimless Fixed | Trimless Adjustable

HARPUT 4



Fixed | Adjustable | Trimless Fixed | Trimless Adjustable

Application
Symmetrical and asymmetrical lighting for general lighting such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies.

LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This e nsures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

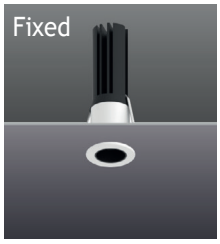
Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

EMFA

HARPUT MINI LED DOWNLIGHT
Class II IP20

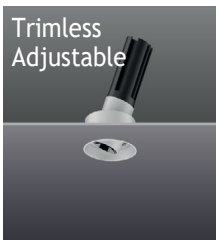
Available in any of these RAL colors

Black White









1W or 3W COB LED

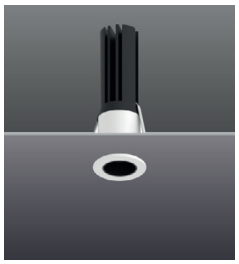
Led : 6W or 12W COB LED

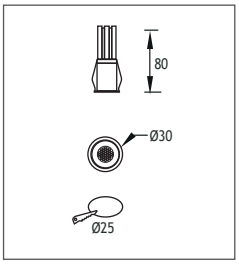
Reflector : 15°,24°,38° or 60°

Gear : 240V
(1-10V Dimmable Driver & DALI Driver available on request)

Cable : 0,5 m 2x0,75 mm H03 VV-F

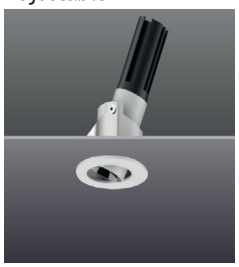
Fixed

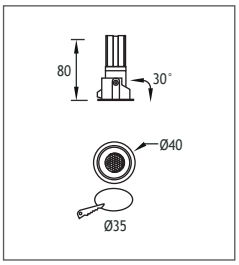




Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	230003
1W LED	3000 K	95 lm	230001
1W LED	4500 K	97 lm	230002
3W LED	2700 K	285 lm	230013
3W LED	3000 K	285 lm	230011
3W LED	4500 K	387 lm	230012

Adjustable

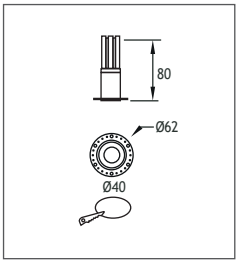




Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	230103
1W LED	3000 K	95 lm	230101
1W LED	4500 K	97 lm	230102
3W LED	2700 K	285 lm	230113
3W LED	3000 K	285 lm	230111
3W LED	4500 K	387 lm	230112

Trimless Fixed

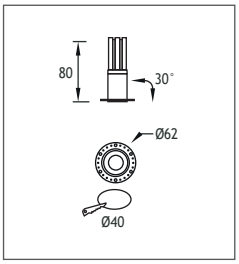




Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	234003
1W LED	3000 K	95 lm	234001
1W LED	4500 K	97 lm	234002
3W LED	2700 K	285 lm	234013
3W LED	3000 K	285 lm	234011
3W LED	4500 K	387 lm	234012

Trimless Adjustable





Power	Kelvin	Real Lumen Output	Code No
1W LED	2700 K	95 lm	234103
1W LED	3000 K	95 lm	234101
1W LED	4500 K	97 lm	234102
3W LED	2700 K	285 lm	234113
3W LED	3000 K	285 lm	234111
3W LED	4500 K	387 lm	234112

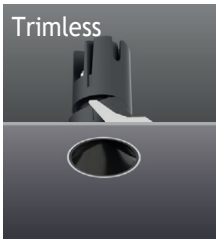
HARPUT 2

LED DOWNLIGHT
Class II IP65

Available in any of these RAL colors

Black White









6W or 12W COB LED

Led : 6W or 12W COB LED

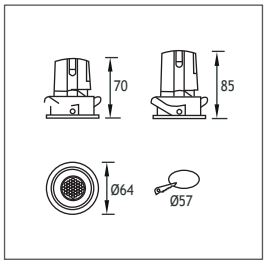
Reflector : 15°,24°,38° or 60°

Gear : 240V
(1-10V Dimmable Driver & DALI Driver available on request)

Cable : 0,5 m 2x0,75 mm H03 VV-F

Fixed

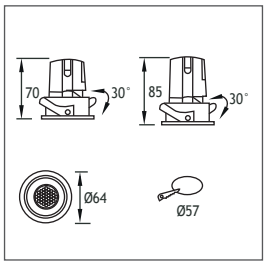




Power	Kelvin	Real Lumen Output	Code No
6W LED	2700 K	570 lm	231003
6W LED	3000 K	570 lm	231001
6W LED	4500 K	581 lm	231002
12W LED	2700 K	1140 lm	231013
12W LED	3000 K	1140 lm	231011
12W LED	4500 K	1162 lm	231012

Adjustable

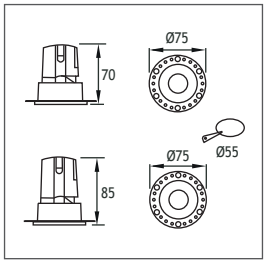




Power	Kelvin	Real Lumen Output	Code No
6W LED	2700 K	570 lm	231103
6W LED	3000 K	570 lm	231101
6W LED	4500 K	581 lm	231102
12W LED	2700 K	1140 lm	231113
12W LED	3000 K	1140 lm	231111
12W LED	4500 K	1162 lm	231112

Trimless Fixed

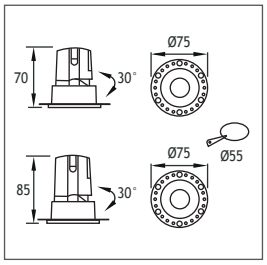




Power	Kelvin	Real Lumen Output	Code No
6W LED	2700 K	570 lm	235003
6W LED	3000 K	570 lm	235001
6W LED	4500 K	581 lm	235002
12W LED	2700 K	1140 lm	235013
12W LED	3000 K	1140 lm	235011
12W LED	4500 K	1162 lm	235012

Trimless Adjustable





Power	Kelvin	Real Lumen Output	Code No
6W LED	2700 K	570 lm	235103
6W LED	3000 K	570 lm	235101
6W LED	4500 K	581 lm	235102
12W LED	2700 K	1140 lm	235113
12W LED	3000 K	1140 lm	235111
12W LED	4500 K	1162 lm	235112

EMFA

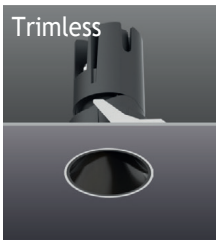
HARPUT 3

LED DOWNLIGHT
Class II IP65

Available in any of these RAL colors

Black White









6W or 12W COB LED

Led : 6W or 12W COB LED

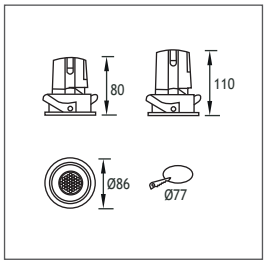
Reflector : 15°,24°,38° or 60°

Gear : 240V
(1-10V Dimmable Driver & DALI Driver available on request)

Cable : 0,5 m 2x0,75 mm H03 VV-F

Fixed

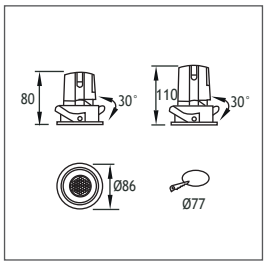




Power	Kelvin	Real Lumen Output	Code No
12W LED	2700 K	1140 lm	232003
12W LED	3000 K	1140 lm	232001
12W LED	4500 K	1162 lm	232002
20W LED	2700 K	1900 lm	232013
20W LED	3000 K	1900 lm	232011
20W LED	4500 K	1936 lm	232012

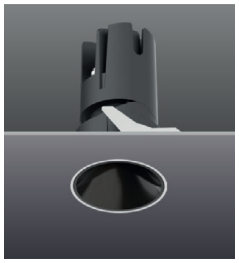
Adjustable

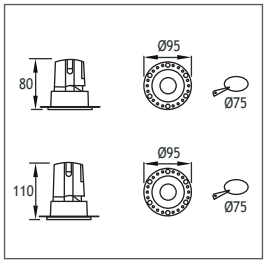




Power	Kelvin	Real Lumen Output	Code No
12W LED	2700 K	1140 lm	232103
12W LED	3000 K	1140 lm	232101
12W LED	4500 K	1162 lm	232102
20W LED	2700 K	1900 lm	232113
20W LED	3000 K	1900 lm	232111
20W LED	4500 K	1936 lm	232112

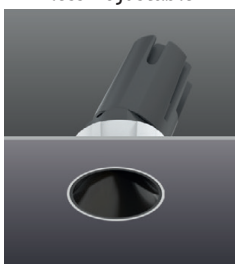
Trimless Fixed

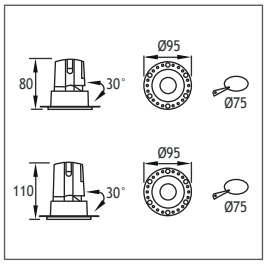




Power	Kelvin	Real Lumen Output	Code No
12W LED	2700 K	1140 lm	236003
12W LED	3000 K	1140 lm	236001
12W LED	4500 K	1162 lm	236002
20W LED	2700 K	1900 lm	236013
20W LED	3000 K	1900 lm	236011
20W LED	4500 K	1936 lm	236012

Trimless Adjustable





Power	Kelvin	Real Lumen Output	Code No
12W LED	2700 K	1140 lm	236103
12W LED	3000 K	1140 lm	236101
12W LED	4500 K	1162 lm	236102
20W LED	2700 K	1900 lm	236113
20W LED	3000 K	1900 lm	236111
20W LED	4500 K	1936 lm	236112

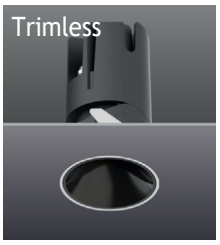
HARPUT 4

LED DOWNLIGHT
Class II IP65

Available in any of these RAL colors

Black White









6W or 12W COB LED

Led : 6W or 12W COB LED

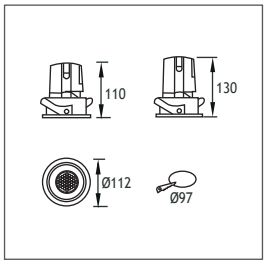
Reflector : 15°,24°,38° or 60°

Gear : 240V
(1-10V Dimmable Driver & DALI Driver available on request)

Cable : 0,5 m 2x0,75 mm H03 VV-F

Fixed

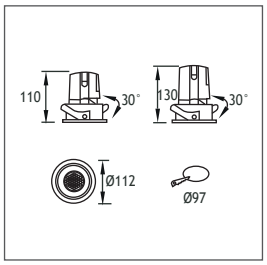




Power	Kelvin	Real Lumen Output	Code No
12W LED	2700 K	1140 lm	233003
12W LED	3000 K	1140 lm	233001
12W LED	4500 K	1162 lm	233002
20W LED	2700 K	1900 lm	233013
20W LED	3000 K	1900 lm	233011
20W LED	4500 K	1936 lm	233012

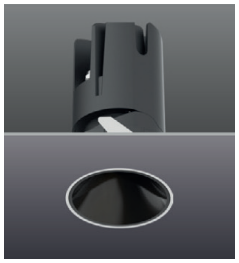
Adjustable

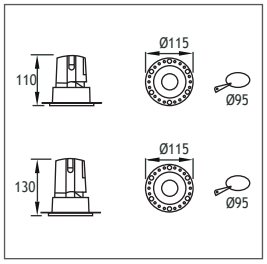




Power	Kelvin	Real Lumen Output	Code No
12W LED	2700 K	1140 lm	233103
12W LED	3000 K	1140 lm	233101
12W LED	4500 K	1162 lm	233102
20W LED	2700 K	1900 lm	233113
20W LED	3000 K	1900 lm	233111
20W LED	4500 K	1936 lm	233112

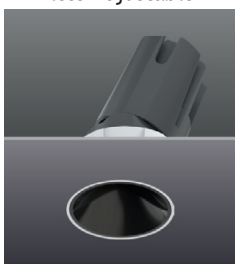
Trimless Fixed

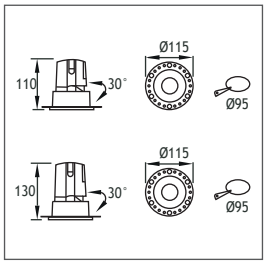




Power	Kelvin	Real Lumen Output	Code No
12W LED	2700 K	1140 lm	237003
12W LED	3000 K	1140 lm	237001
12W LED	4500 K	1162 lm	237002
20W LED	2700 K	1900 lm	237013
20W LED	3000 K	1900 lm	237011
20W LED	4500 K	1936 lm	237012

Trimless Adjustable





Power	Kelvin	Real Lumen Output	Code No
12W LED	2700 K	1140 lm	237103
12W LED	3000 K	1140 lm	237101
12W LED	4500 K	1162 lm	237102
20W LED	2700 K	1900 lm	237113
20W LED	3000 K	1900 lm	237111
20W LED	4500 K	1936 lm	237112

EMFA

PENTATHLON

LED DOWNLIGHT
Class II IP20

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

The PENTATHLON Dark Reflector LED Downlight is specially designed to provide low glare lighting in high ceiling areas. The Nichia COB chip gives out a high efficiency and high CRI (90) light. The lens that is used in the PENTATHLON allows the light to reach the ground with minimal loss from deep inside the fixture. The depth of the fixture and the clean beam of the lens is what provides the low glare of this fixture.


Symmetrical


Asymmetrical

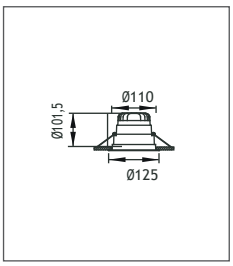
Body
Die cast aluminium
Paint
Electrostatic powder paint RAL 9016 (available in other RAL colors)
Springs
Steel for mounting in ceilings of 1-25mm thickness
Gear
Non-Dimmable electronic LED driver
(1-10V Dimmable and DALI drivers available on request)
Cable
0.5m exiting from top of fixture

COB LED

Led : 350mA 13W / 500mA 18W LED (Nichia)
Reflector : 24° or 38°
Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver and DALI Driver available on request)
Cable : 0.5 m 2x0,75 mm H03 VV-F

SYMMETRICAL

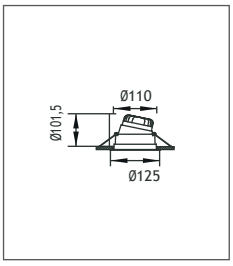




Power	Kelvin	Real Lumen Output	Lens	Code No
13W LED	2700 K	1235 lm	24°,38°	118203
13W LED	3000 K	1235 lm	24°,38°	118201
13W LED	4000 K	1259 lm	24°,38°	118202
18W LED	2700 K	1710 lm	24°,38°	118403
18W LED	3000 K	1710 lm	24°,38°	118401
18W LED	4000 K	1779 lm	24°,38°	118402

ASYMMETRICAL





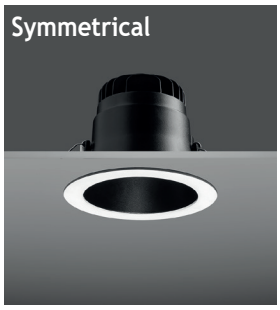
Power	Kelvin	Real Lumen Output	Lens	Code No
13W LED	2700 K	1235 lm	24°,38°	118223
13W LED	3000 K	1235 lm	24°,38°	118221
13W LED	4000 K	1259 lm	24°,38°	118222
18W LED	2700 K	1710 lm	24°,38°	118213
18W LED	3000 K	1710 lm	24°,38°	118211
18W LED	4000 K	1779 lm	24°,38°	118212

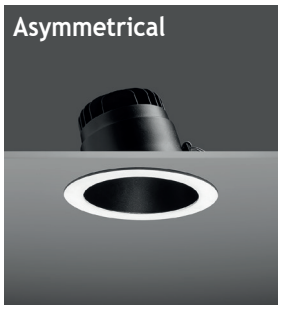
PENTATHLON

TRIMLESS LED DOWNLIGHT
Class II IP20

Available in any of these RAL colors





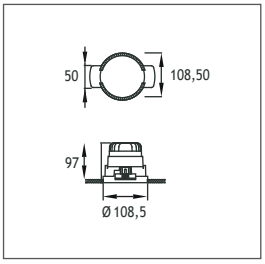


COB LED

Led : 350mA 13W / 500mA 18W LED (Nichia)
Reflector : 24° or 38°
Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver and DALI Driver available on request)
Cable : 0.5 m 2x0,75 mm H03 VV-F

TRIMLESS SYMMETRICAL

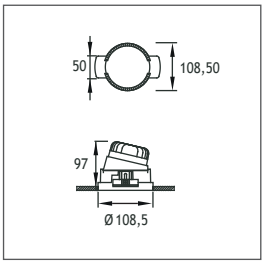




Power	Kelvin	Real Lumen Output	Lens	Code No
13W LED	2700 K	1235 lm	24°,38°	118303
13W LED	3000 K	1235 lm	24°,38°	118301
13W LED	4000 K	1259 lm	24°,38°	118302
18W LED	2700 K	1710 lm	24°,38°	118333
18W LED	3000 K	1710 lm	24°,38°	118331
18W LED	4000 K	1779 lm	24°,38°	118332

TRIMLESS ASYMMETRICAL





Power	Kelvin	Real Lumen Output	Lens	Code No
13W LED	2700 K	1235 lm	24°,38°	118323
13W LED	3000 K	1235 lm	24°,38°	118321
13W LED	4000 K	1259 lm	24°,38°	118322
18W LED	2700 K	1710 lm	24°,38°	118343
18W LED	3000 K	1710 lm	24°,38°	118341
18W LED	4000 K	1779 lm	24°,38°	118342

EMFA


Beauty
SALON
14.00



SATURN LED DOWNLIGHT
Class II IP20

Available in any of these RAL colors

9016 9005 7016 7004 1015

The Saturn LED Downlight is specially designed to provide highest energy efficiency in general lighting applications. Using latest LED technology in combination with special plastic moulding and paint application allows for around 90lm/W lighting output. The highly efficient diffuser provides a completely homogenous light output.



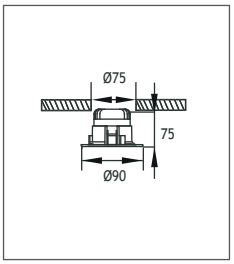
Body
Die cast aluminium
Paint
Electrostatic powder paint RAL 9016 (available in other RAL colors)
Springs
Steel for mounting in ceilings of 1-25mm thickness
Gear
Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)
Cable
0.5m exiting from top of fixture

COB LED

Led : 180mA 6W / 250mA 8W COB LED
Reflector : 10° / 38° / 60°
Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver and DALI Driver available on request)
Cable : 0.5 m 2x0,75 mm H03 VV-F

FIXED

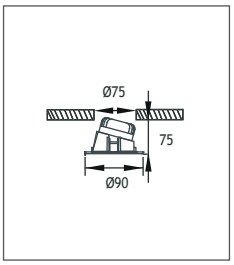




Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,38°,60°	528004
6W LED	3000 K	570 lm	10°,38°,60°	528001
6W LED	4000 K	581 lm	10°,38°,60°	528002
6W LED	6000 K	593 lm	10°,38°,60°	528003
8W LED	2700 K	760 lm	10°,38°,60°	528014
8W LED	3000 K	760 lm	10°,38°,60°	528011
8W LED	4000 K	774 lm	10°,38°,60°	528012
8W LED	6000 K	790 lm	10°,38°,60°	528013

ADJUSTABLE





Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,38°,60°	528104
6W LED	3000 K	570 lm	10°,38°,60°	528101
6W LED	4000 K	581 lm	10°,38°,60°	528102
6W LED	6000 K	593 lm	10°,38°,60°	528103
8W LED	2700 K	760 lm	10°,38°,60°	528114
8W LED	3000 K	760 lm	10°,38°,60°	528111
8W LED	4000 K	774 lm	10°,38°,60°	528112
8W LED	6000 K	790 lm	10°,38°,60°	528113


GENESIS

SATURN MINI

DEEP LED DOWNLIGHT
Class I IP20

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



COB LED

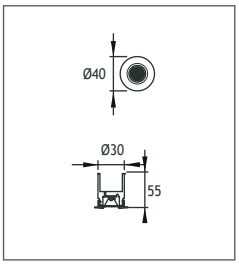
Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Diffuser : Clear Glass with painted circumference 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

SATURN MINI





Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	25°,40°	529004
1W LED	3000 K	95 lm	25°,40°	529001
1W LED	4500 K	97 lm	25°,40°	529002
1W LED	6000 K	99 lm	25°,40°	529003
3W LED	2700 K	285 lm	25°,40°	529014
3W LED	3000 K	285 lm	25°,40°	529011
3W LED	4500 K	290 lm	25°,40°	529012
3W LED	6000 K	296 lm	25°,40°	529013

CUNDA

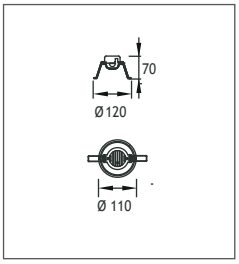
LED DOWNLIGHT
Class II IP44

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

CUNDA 1

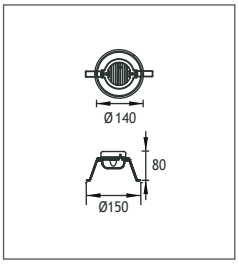




Power	Kelvin	Real Lumen Output	Code No DOT	Code No HALO
7W LED	2700 K	665 lm	419203	419213
7W LED	3000 K	665 lm	419201	419211
7W LED	4000 K	677 lm	419202	419212
7W LED	3000 K	665 lm	419204	419214
7W LED	4000 K	677 lm	419205	419215

CUNDA 2





Power	Kelvin	Real Lumen Output	Code No DOT	Code No HALO
11W LED	2700 K	1045 lm	419303	419313
11W LED	3000 K	1045 lm	419301	419314
11W LED	4000 K	1065 lm	419302	419315
11W LED	3000 K	1045 lm	419304	419311
11W LED	4000 K	1065 lm	419305	419312

EMFA

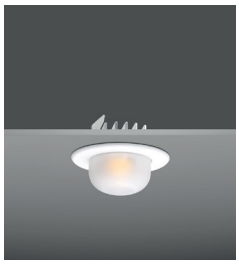
DOT

LED DOWNLIGHT
Class II IP44

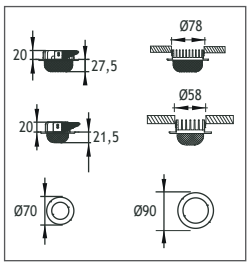
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

DOT

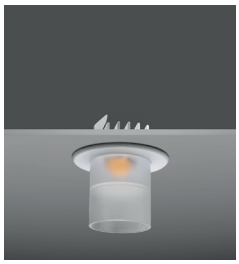




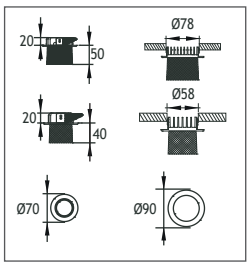


Power	Kelvin	Real Lumen Output	Code No
7W LED	2700 K	665 lm	112303
7W LED	3000 K	665 lm	112301
7W LED	4000 K	677 lm	112302
11W LED	2700 K	1045 lm	112313
11W LED	3000 K	1045 lm	112311
11W LED	4000 K	1065 lm	112312

HALO





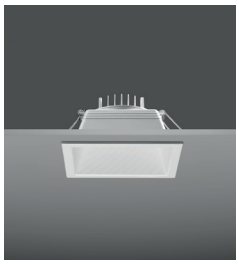


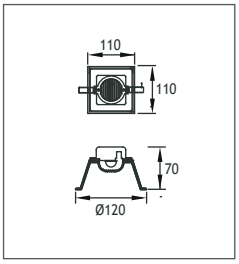
Power	Kelvin	Real Lumen Output	Code No
7W LED	2700 K	665 lm	112403
7W LED	3000 K	665 lm	112401
7W LED	4000 K	677 lm	112402
11W LED	2700 K	1045 lm	112413
11W LED	3000 K	1045 lm	112411
11W LED	4000 K	1065 lm	112412

PATARA

LED DOWNLIGHT
Class II IP44

PATARA 1

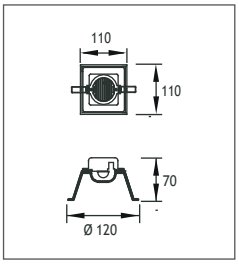




Power	Kelvin	Real Lumen Output	Code No HALO	Code No DOT
7W LED	2700 K	665 lm	420303	420313
7W LED	3000 K	665 lm	420301	420314
7W LED	4000 K	677 lm	420302	420315
7W LED	3000 K	665 lm	420304	420311
7W LED	4000 K	677 lm	420305	420312

PATARA 2

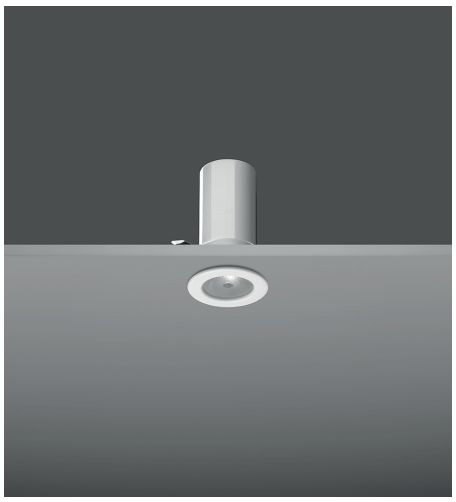




Power	Kelvin	Real Lumen Output	Code No HALO	Code No DOT
7W LED	2700 K	665 lm	420403	420413
7W LED	3000 K	665 lm	420401	420414
7W LED	4000 K	677 lm	420402	420415
7W LED	3000 K	665 lm	420404	420411
7W LED	4000 K	677 lm	420405	420412

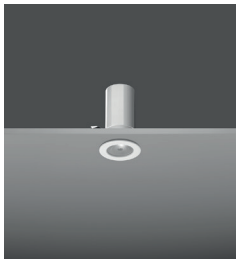
BELKIS MINI LED DOWNLIGHT
Class I IP65

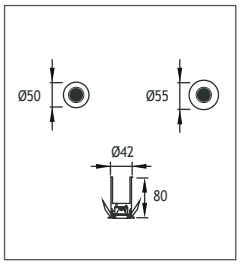
Cover
Die cast aluminium or Stainless steel
Body
Die cast aluminium
Gaskets
Silicone
Diffusers
Tempered Glass



Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 25°, 40°
Diffuser : Clear Glass with painted circumference 8 mm (Frosted Glass on request)
Cable : Potted 5 m 3x0,75 H03 VV-F

BELKIS MINI





Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	25°,40°	297004
1W LED	3000 K	95 lm	25°,40°	297001
1W LED	4500 K	97 lm	25°,40°	297002
1W LED	6000 K	99 lm	25°,40°	297003
3W LED	2700 K	285 lm	25°,40°	297014
3W LED	3000 K	285 lm	25°,40°	297011
3W LED	4500 K	290 lm	25°,40°	297012
3W LED	6000 K	296 lm	25°,40°	297013

MARATHON

LED DOWNLIGHT
Class II IP65 IK10

Available in any of these RAL colors

9016 9005 7016 7004 1015



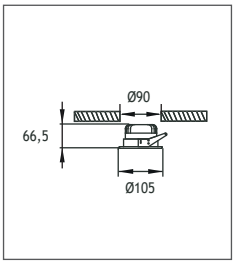
Body
Die cast aluminium designed to be heat sink
Cover
Die cast aluminium RAL9002 (available in other RAL colors as well as chrome or gold on request)
Diffuser
Clear of frosted tempered Glass
Springs
Stainless steel for mounting in ceilings or 1-25 mm
(with plastic covers for the Marathon 2 Downlight)
Cable
0.5 m exiting top of fixture
Gear
Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)

COB LED (350-500 mA)

Led : COB LED (350-500mA)
Reflector : 10°, 23°, 38° Aluminium-Coated Polycarbonate Reflector
Diffuser : Clear Glass 8 mm (Frosted Glass on request)
Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
Springs : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
Cable : 0,5 m 2x0,75 mm H03 VV-F

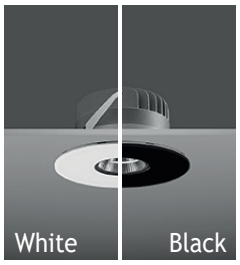
MARATHON 2

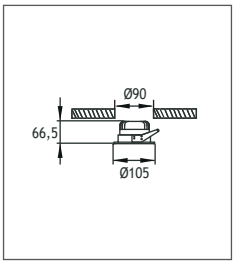




Power	Kelvin	Real Lumen Output	Lens	Code No
11W LED	2700 K	1045 lm	10°,23°,38°	260101
11W LED	3000 K	1045 lm	10°,23°,38°	260102
11W LED	4000 K	1065 lm	10°,23°,38°	260103
18W LED	2700 K	1710 lm	10°,23°,38°	260113
18W LED	3000 K	1710 lm	10°,23°,38°	260111
18W LED	4000 K	1779 lm	10°,23°,38°	260112

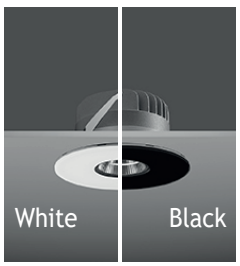
MARATHON 2 GLASS

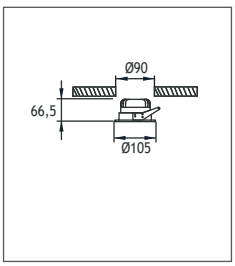




Power	Kelvin	Real Lumen Output	Lens	Code No
11W LED	2700 K	1045 lm	10°,23°,38°	263001
11W LED	3000 K	1045 lm	10°,23°,38°	263002
11W LED	4000 K	1065 lm	10°,23°,38°	263003
18W LED	2700 K	1710 lm	10°,23°,38°	263011
18W LED	3000 K	1710 lm	10°,23°,38°	263012
18W LED	4000 K	1744 lm	10°,23°,38°	263013

MARATHON 2 GLASS





Power	Kelvin	Real Lumen Output	Lens	Code No
11W LED	2700 K	1045 lm	10°,23°,38°	263201
11W LED	3000 K	1045 lm	10°,23°,38°	263202
11W LED	4000 K	1065 lm	10°,23°,38°	263203
18W LED	2700 K	1710 lm	10°,23°,38°	263211
18W LED	3000 K	1710 lm	10°,23°,38°	263212
18W LED	4000 K	1744 lm	10°,23°,38°	263213

EMFA



MARATHON

TIR LENS LED DOWNLIGHT
Class II IP65 IK10

Available in any of these RAL colors

9016 9005 7016 7004 1015



COB LED (350-700 mA)

Lens : 10°, 20°, 30° Mirror TIR Lens

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

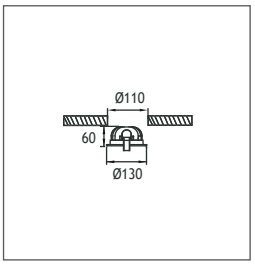
Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)

Springs : Stainless Steel for mounting in ceilings of 1-25 mm

Cable : 0,5 m 2x0,75 mm H03 VV-F

MARATHON 3

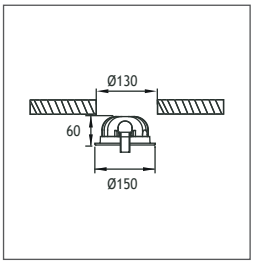




Power	Kelvin	Real Lumen Output	Lens	Code No
11W LED	2700 K	1045 lm	10°,20°,30°	261003
11W LED	3000 K	1045 lm	10°,20°,30°	261001
11W LED	4000 K	1065 lm	10°,20°,30°	261002
18W LED	2700 K	1710 lm	10°,20°,30°	261013
18W LED	3000 K	1710 lm	10°,20°,30°	261011
18W LED	4000 K	1779 lm	10°,20°,30°	261012

MARATHON 4





Power	Kelvin	Real Lumen Output	Lens	Code No
25W LED	2700 K	1045 lm	10°,20°,30°	262003
25W LED	3000 K	1045 lm	10°,20°,30°	262001
25W LED	4000 K	1065 lm	10°,20°,30°	262002
32W LED	2700 K	1710 lm	10°,20°,30°	262023
32W LED	3000 K	1710 lm	10°,20°,30°	262021
32W LED	4000 K	1779 lm	10°,20°,30°	262022

EMFA



DECATHLON

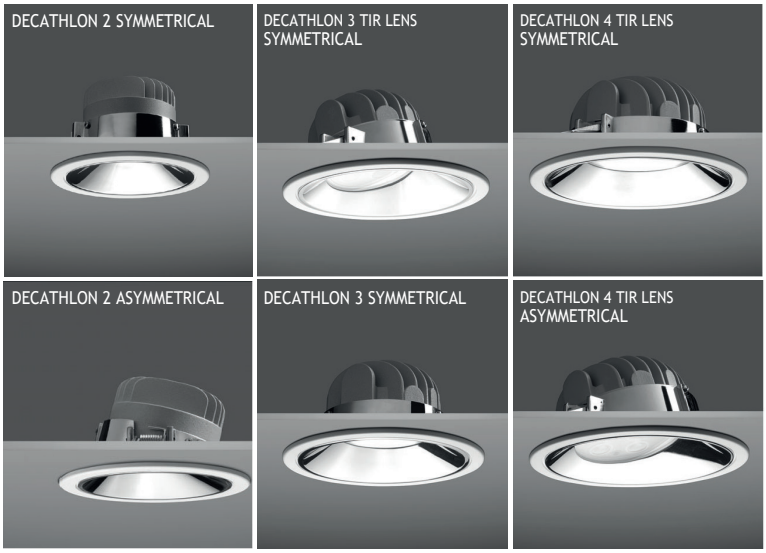
LED DOWNLIGHT
Class III IP65 IK10

Available in any of these RAL colors

9016 9005 7016 7004 1015

The Decathlon LED Downlight is specially designed to deliver high output LED light to indoors and outdoors using CREE LEDs. This downlight is the choice for lighting applications where high luminous-flux output is required from a single, small point source. The Decathlon is slightly wider and deeper than the Marathon giving a different look to the fixture, but the same output. A combination of high color rendition of over 80, several different color temperatures and several degree reflectors and lenses allow the use in a wide range of applications such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies. The shallow fixture depths allow for installation into most ceilings and applications. Non-dimmable drivers come standard with the Downlights, but 1-10V dimmable and DALI drivers are available on request. An ample heat sink is provided for to allow for the lifetime of L70 = 50,000 hours.

Body
Die cast aluminium designed to be heat sink
Cover
Die cast aluminium RAL9002 (available in other RAL colors as well as chrome or gold on request)
Diffuser
Clear of frosted tempered Glass
Springs
Stainless steel for mounting in ceilings or 1-25 mm
(with plastic covers for the Marathon 2 Downlight)
Cable
0.5 m exiting top of fixture
Gear
Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)



Directional Downlight



Application
These fixtures give a narrow to wide beam asymmetrical light output to walls, paintings, corridors and shop displays. The die cast aluminium body has a fixed built in tilt to allow for proper heat dissipation on the LEDs that can run up to 700mA.



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

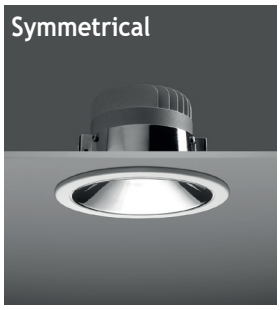


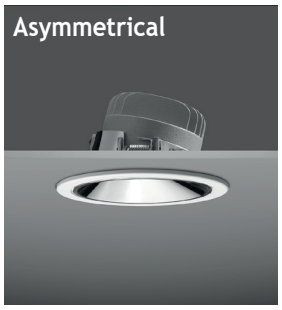
DECATHLON

LED DOWNLIGHT
Class III IP65 IK10

Available in any of these RAL colors

9016 9005 7016 7004 1015





COB CREE LED (350-700mA)

Reflector : 10°, 23°, 38° Aluminium-Coated Polycarbonate Reflector

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Gear : 240V Non-Dimmable Driver

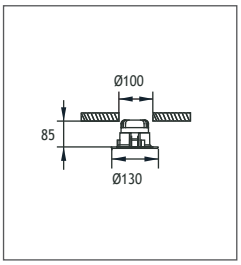
(1-10V Dimmable Driver & DALI Driver available on request)

Springs : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm

Cable : 0,5 m 2x0,75 mm H03 VV-F

DECATHLON 2 SYMMETRICAL

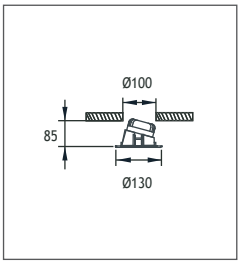




Power	Kelvin	Real Lumen Output	Lens	Code No
13W 350mA	2700 K	1045 lm	10°,23°,38°	262202
13W 350mA	3000 K	1045 lm	10°,23°,38°	260202
13W 350mA	4000 K	1065 lm	10°,23°,38°	260203
18W 500mA	2700 K	1710 lm	10°,23°,38°	262211
18W 500mA	3000 K	1710 lm	10°,23°,38°	260212
18W 500mA	4000 K	1779 lm	10°,23°,38°	260213

DECATHLON 2 ASYMMETRICAL





Power	Kelvin	Real Lumen Output	Lens	Code No
13W 350mA	2700 K	1045 lm	10°,23°,38°	260231
13W 350mA	3000 K	1045 lm	10°,23°,38°	260232
13W 350mA	4000 K	1065 lm	10°,23°,38°	260233
18W 500mA	2700 K	1710 lm	10°,23°,38°	260241
18W 500mA	3000 K	1710 lm	10°,23°,38°	260242
18W 500mA	4000 K	1779 lm	10°,23°,38°	260243





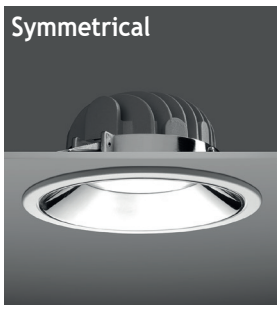
EMFA

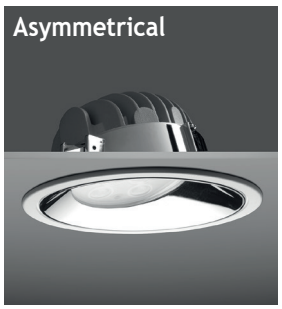
DECATHLON

TIR LENS LED DOWNLIGHT
Class II IP65 IK10

Available in any of these RAL colors

9016 9005 7016 7004 1015





COB CREE LED (350-700mA)

Reflector : 10°, 20°, 30° Aluminium-Coated Polycarbonate Reflector

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Gear : 240V Non-Dimmable Driver

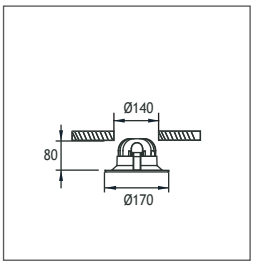
(1-10V Dimmable Driver & DALI Driver available on request)

Springs : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm

Cable : 0,5 m 2x0,75 mm H03 VV-F

DECATHLON 3 SYMMETRICAL

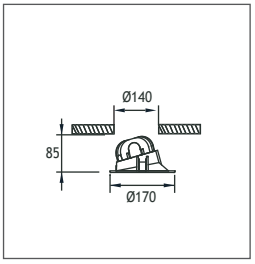




Power	Kelvin	Real Lumen Output	Lens	Code No
11W LED	2700 K	1045 lm	10°,20°,30°	266002
11W LED	3000 K	1045 lm	10°,20°,30°	266001
11W LED	4000 K	1065 lm	10°,20°,30°	266003
18W LED	2700 K	1710 lm	10°,20°,30°	266022
18W LED	3000 K	1710 lm	10°,20°,30°	266021
18W LED	4000 K	1779 lm	10°,20°,30°	266023

DECATHLON 3 ASYMMETRICAL

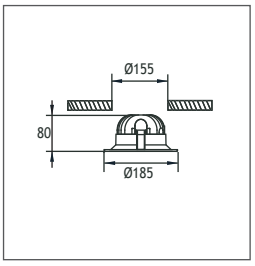




Power	Kelvin	Real Lumen Output	Lens	Code No
11W LED	2700 K	1045 lm	10°,20°,30°	266102
11W LED	3000 K	1045 lm	10°,20°,30°	266101
11W LED	4000 K	1065 lm	10°,20°,30°	266103
18W LED	2700 K	1710 lm	10°,20°,30°	266122
18W LED	3000 K	1710 lm	10°,20°,30°	266121
18W LED	4000 K	1779 lm	10°,20°,30°	266123

DECATHLON 4 SYMMETRICAL

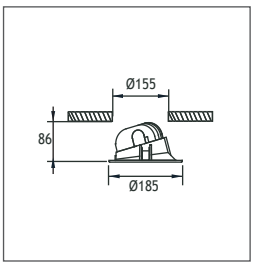




Power	Kelvin	Real Lumen Output	Lens	Code No
25W LED	2700 K	2375 lm	10°,20°,30°	267002
25W LED	3000 K	2375 lm	10°,20°,30°	267001
25W LED	4000 K	2422 lm	10°,20°,30°	267003
32W LED	2700 K	3040 lm	10°,20°,30°	267022
32W LED	3000 K	3040 lm	10°,20°,30°	267021
32W LED	4000 K	3100 lm	10°,20°,30°	267023

DECATHLON 4 ASYMMETRICAL





Power	Kelvin	Real Lumen Output	Lens	Code No
25W LED	2700 K	2375 lm	10°,20°,30°	267002
25W LED	3000 K	2375 lm	10°,20°,30°	267001
25W LED	4000 K	2422 lm	10°,20°,30°	267003
32W LED	2700 K	3040 lm	10°,20°,30°	267022
32W LED	3000 K	3040 lm	10°,20°,30°	267021
32W LED	4000 K	3100 lm	10°,20°,30°	267023



TRIATHLON

LED DOWNLIGHT
Class II IP55 IK08

Available in any of these RAL colors

9016 9005 7016 7004 1015

The Triathlon LED Downlight is specially designed to provide highest energy efficiency in general lighting applications. Using latest LED technology in combination with special plastic moulding and paint application allows for around 90lm/W lighting output. The highly efficient diffuser provides a completely homogenous light output. The simple installation method allows for easy installation into ceilings from 1-25mm thickness. One can choose from three compact sizes, 120mm, 150mm, and 175mm to achieve the desired lighting level.

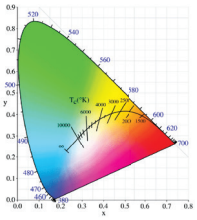


Body
Die cast aluminium
Paint
Electrostatic powder paint RAL 9016 (available in other RAL colors)
Diffuser
High efficiency frosted acrylic diffuser with 90º beam angle
Springs
Steel for mounting in ceilings of 1-25mm thickness
Gear
Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)
Cable
0.5m exiting from top of fixture

Downlight

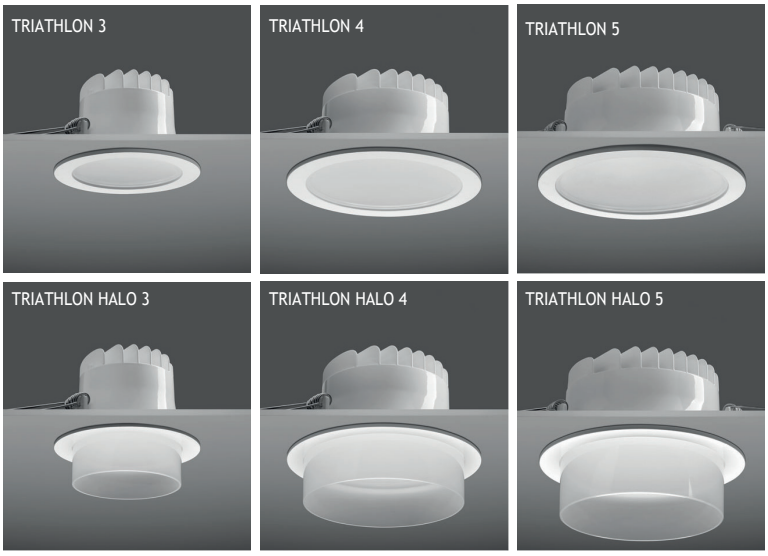


Application
Wide beam symmetrical lighting for general lighting such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies.



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 4 standard paint colors, 3 white tones, 3 wattages, and 3 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

TRIATHLON

LED DOWNLIGHT
Class II IP55 IK08

Available in any of these RAL colors

9016 9005 7016 7004 1015



Osram SMD LEDs; over 110lm/W

Reflector : 90°

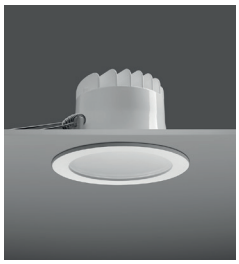
Diffuser : High efficiency frosted acrylic diffuser with 90° beam angle

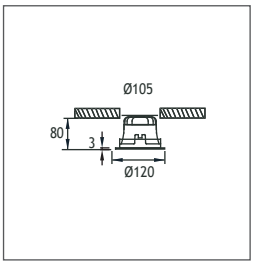
Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)

Springs : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm

Cable : 0,5 m 2x0,75 mm H03 VV-F

TRIATHLON 3

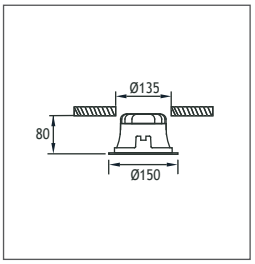




Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	90°	268301
6W LED	3000 K	570 lm	90°	268302
8W LED	2700 K	760 lm	90°	268311
8W LED	3000 K	760 lm	90°	268312
10W LED	2700 K	950 lm	90°	268321
10W LED	3000 K	950 lm	90°	268322

TRIATHLON 4

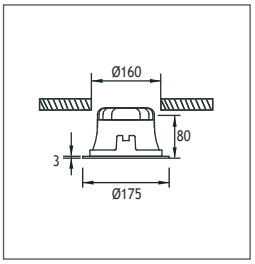




Power	Kelvin	Real Lumen Output	Lens	Code No
11W LED	2700 K	1045 lm	90°	268401
11W LED	3000 K	1045 lm	90°	268402
16W LED	2700 K	1520 lm	90°	268411
16W LED	3000 K	1520 lm	90°	268412
20W LED	2700 K	1900 lm	90°	268421
20W LED	3000 K	1900 lm	90°	268422

TRIATHLON 5





Power	Kelvin	Real Lumen Output	Lens	Code No
16W LED	2700 K	1520 lm	90°	268501
16W LED	3000 K	1520 lm	90°	268502
24W LED	2700 K	2280 lm	90°	268511
24W LED	3000 K	2280 lm	90°	268512
31W LED	2700 K	2945 lm	90°	268521
31W LED	3000 K	2945 lm	90°	268522
40W LED	2700 K	3800 lm	90°	268521
40W LED	3000 K	3800 lm	90°	268522

EMFA

TRIATHLON HALO

LED DOWNLIGHT
Class II IP55 IK08

Available in any of these RAL colors

9016 9005 7016 7004 1015



Osram SMD LEDs

Reflector : 90°

Diffuser : High efficiency frosted acrylic diffuser with 90° beam angle

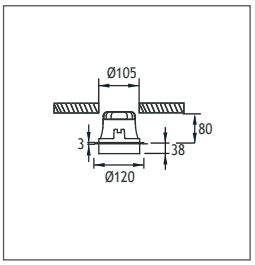
Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)

Springs : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm

Cable : 0,5 m 2x0,75 mm H03 VV-F

TRIATHLON HALO 3

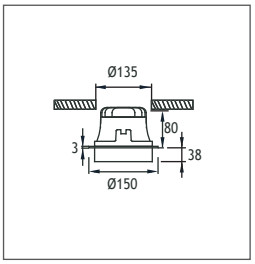




Power	Kelvin	Real Lumen Output	Lens	Code No
6W 350mA	2700 K	570 lm	90°	269301
6W 350mA	3000 K	570 lm	90°	269302
8W 500mA	2700 K	760 lm	90°	269311
8W 500mA	3000 K	760 lm	90°	269312
10W 700mA	2700 K	950 lm	90°	269321
10W 700mA	3000 K	950 lm	90°	269322

TRIATHLON HALO 4

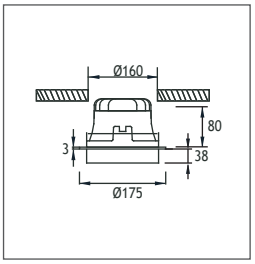




Power	Kelvin	Real Lumen Output	Lens	Code No
11W 350mA	2700 K	1045 lm	90°	269401
11W 350mA	3000 K	1045 lm	90°	269402
16W 500mA	2700 K	1520 lm	90°	269411
16W 500mA	3000 K	1520 lm	90°	269412
20W 700mA	2700 K	1900 lm	90°	269421
20W 700mA	3000 K	1900 lm	90°	269422

TRIATHLON HALO 5





Power	Kelvin	Real Lumen Output	Lens	Code No
16W 350mA	2700 K	1520 lm	90°	269501
16W 350mA	3000 K	1520 lm	90°	269502
24W 500mA	2700 K	2280 lm	90°	269511
24W 500mA	3000 K	2280 lm	90°	269512
31W 700mA	2700 K	2945 lm	90°	269521
31W 700mA	3000 K	2945 lm	90°	269522

BELKIS

RECESSED FIXTURES
Downlights (For False Ceiling)
Class III IP67 IK10





HALOGEN

Lampholder : Gu4 / Gu5.3 / E27

Reflector : -

Diffuser : 6 mm Tempered Glass
(8mm Tempered Glass for BELKIS 5)

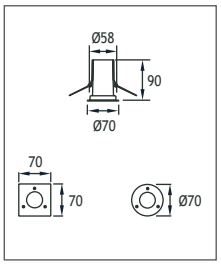
Transformer is not included.

Remote transformer should be used.

BELKIS 1





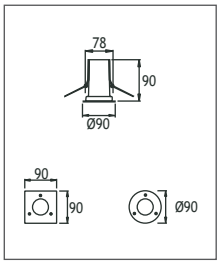


Power	Reflector	Lampholder	Class	Code No Round	Square
20W HALOGEN	10°,38°	Gu4	I	321101	321201

BELKIS 2





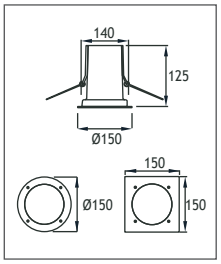


Power	Reflector	Lampholder	Class	Code No Round	Square
35/50W HALOGEN	10°,38°	Gu5.3	III	323101	323201
35/50W HALOGEN	25°,50°	Gu10	I	323121	323221

BELKIS 5







Power	Reflector	Lampholder	Class	Code No Round	Square
75W HALOGEN	10°,30°	E27	I	325111	325211

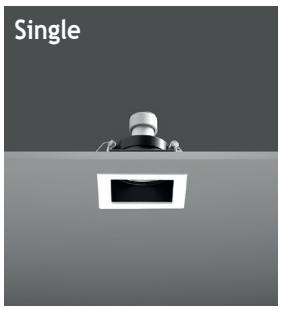
EMFA


SPINE

DYO RECESSED CEILING FIXTURES IP20

Available in any of these RAL colors

9016 9005 7016 7004 1015





HALOGEN or COB LED

Class : III/II

Lampholder : Gu10/Gu5.3

Reflector : -

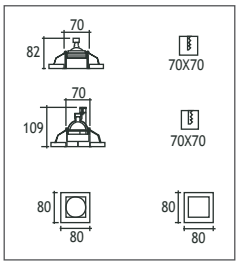
Diffuser : -

Transformer is not included.

Remote transformer should be used.

DYO 70 16 S/70 18 S

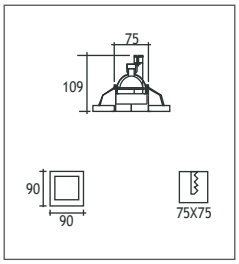




Power	Glass	Lampholder	Class	Code No
50W HALOGEN	Without Glass	Gu 5.3	III	133101
50W HALOGEN	With Glass	Gu 5.3	III	133201
50W HALOGEN	Without Glass	Gu10	II	133111
50W HALOGEN	With Glass	Gu10	II	133211

DYO 70 16 Single

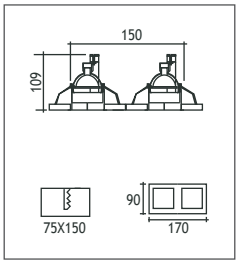




Power	Kelvin	Real Lumen Output	Code No
6W LED	2700 K	570 lm	133304
6W LED	3000 K	570 lm	133301
6W LED	4000 K	581 lm	133302
6W LED	6000 K	593 lm	133303
8W LED	2700 K	760 lm	133314
8W LED	3000 K	760 lm	133311
8W LED	4000 K	774 lm	133312
8W LED	6000 K	790 lm	133313

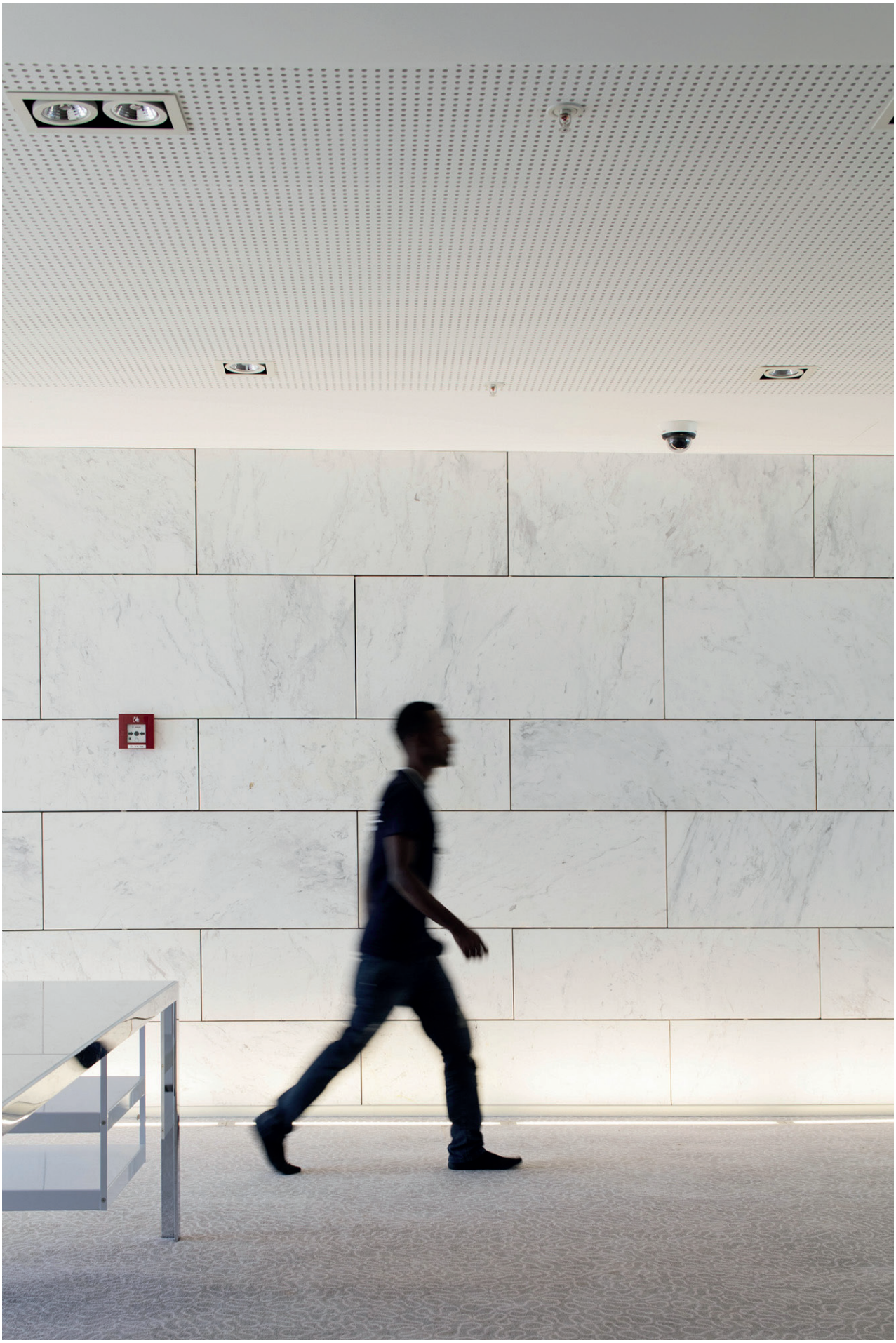
DYO 70 16 TWIN





Power	Kelvin	Real Lumen Output	Code No
6W LED	2700 K	570 lm	133404
6W LED	3000 K	570 lm	133401
6W LED	4000 K	581 lm	133402
6W LED	6000 K	593 lm	133403
8W LED	2700 K	760 lm	133414
8W LED	3000 K	760 lm	133411
8W LED	4000 K	774 lm	133412
8W LED	6000 K	790 lm	133413

EMFA



CUNDA / PATARA

RECESSED INDOOR CRADLE FIXTURES IP20

HALOGEN

Outer Frame
Steel
Cradle Frame
Die cast aluminium
Paint
Electrostatic powder

Lampholder : III-I
Lampholder : G53/E27
Reflector : -
Diffuser : -

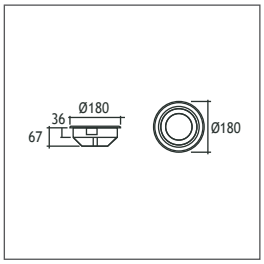

Patara Single


Patara Twin


Cunda

CUNDA ROUND



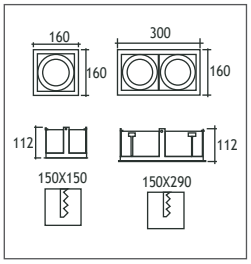


Power	Lampholder	Class	Code No
50W	G 53	III	419101
75W	E 27	I	419111

PATARA SINGLE 2 x HALOGEN RJ111 12V 50W







Power	Lampholder	Class	Code No Round	Square
HALOGEN RJ111 50W	G 53	III	420101	420201
PAR 30 HALOGEN	E 27	I	420111	420211

EMFA

HALOGEN

SPOT DOWNLIGHT
IP20

Available in any
of these RAL colors

9016 9005 7016 7004 1015



Body
Aluminium
Frame
Steel
Holding Force
Magnetism, no screws
for easy assembly
and maintenance
Spring
Spiral Inox
Automatically adjustable to the
thickness of false ceiling
Special Feature
Adjustable lamp angle

HALOGEN

Class : III

Lampholder : Gu4/Gu5.3

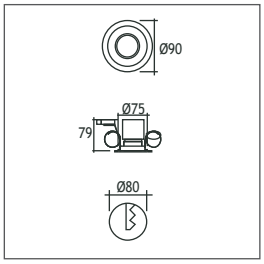
Reflector : -

Diffuser : -

Transformer is not included.

Remote transformer should be used.





Power	Lampholder	Class	Code No
20W HALOGEN	Gu 4	III	113401
50W HALOGEN	Gu 5.3	III	113411





SQUARE

SURFACE MOUNTED CEILING FIXTURES
Class I IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Body
Die cast aluminium
Paint
Electrostatic powder
Bracket
Die cast aluminium
Diffusers
Tempered glass or acrylic
Gaskets
Silicone
Connection
IP connection box







COB LED or Power LEDs

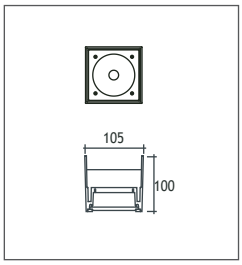
Voltage : 240V A.C with integrated Driver
(24V AC or DC on request)

Diffuser : Acrylic / Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 mm H03 VV-F

SQUARE DOT

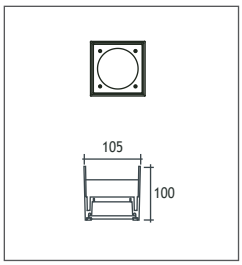




Power	Kelvin	Real Lumen Output	Code No
11W LED	2700 K	980 lm	289003
11W LED	3000 K	980 lm	289001
11W LED	4000 K	1010 lm	289002

SQUARE DIFFUSE GLASS

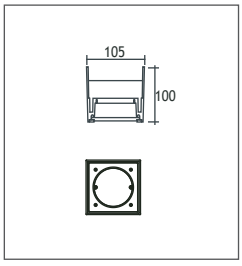




Power	Kelvin	Real Lumen Output	Code No
6W LED	2700 K	450 lm	289013
6W LED	3000 K	450 lm	289011
6W LED	4000 K	471 lm	289012

SQUARE





Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	289024
6W LED	3000 K	570 lm	10°,25°,40°	289021
6W LED	4000 K	581 lm	10°,25°,40°	289022
6W LED	6000 K	593 lm	10°,25°,40°	289023
11W LED	2700 K	1045 lm	10°,20°,30°	xxxxx
11W LED	3000 K	1045 lm	10°,20°,30°	xxxxx
11W LED	4000 K	1065 lm	10°,20°,30°	xxxxx
11W LED	6000 K	1088 lm	10°,20°,30°	xxxxx

MARATHON 2 GLASS

SURFACE MOUNTED CEILING FIXTURES
Class I IP65

Glass available in these pastel colors

Body
Die cast aluminium
Paint
Electrostatic powder
Bracket
Die cast aluminium
Diffusers
Tempered glass
Gaskets
Silicone
Connection
IP connection box

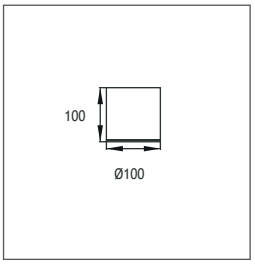




COB LED (350-500mA)

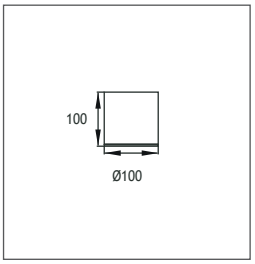
Reflector : 10°, 23°, 38° Aluminium-Coated Polycarbonate Reflector
Diffuser : Clear Glass 8 mm (Frosted Glass on request)
Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
Springs : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
Cable : 0,5 m 2x0,75 mm H03 VV-F





Power	Kelvin	Real Lumen Output	Lens	Code No
3W LED	2700 K	285 lm	10°,23°,38°	260301
3W LED	3000 K	285 lm	10°,23°,38°	260302
3W LED	4000 K	290 lm	10°,23°,38°	260303
11W LED	2700 K	1045 lm	10°,23°,38°	260333
11W LED	3000 K	1045 lm	10°,23°,38°	260331
11W LED	4000 K	1065 lm	10°,23°,38°	260332





Power	Kelvin	Real Lumen Output	Lens	Code No
3W LED	2700 K	210 lm	10°,23°,38°	260402
3W LED	3000 K	210 lm	10°,23°,38°	260401
3W LED	4000 K	252 lm	10°,23°,38°	260403
11W LED	2700 K	252 lm	10°,23°,38°	260433
11W LED	3000 K	696 lm	10°,23°,38°	260431
11W LED	4000 K	835 lm	10°,23°,38°	260432

DECATHLON 3

SURFACE MOUNTED CEILING FIXTURES
Class I IP55

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

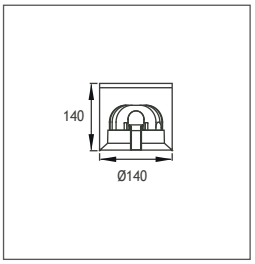


Body
Die cast aluminium
Paint
Electrostatic powder
Bracket
Die cast aluminium
Diffusers
Tempered glass
Gaskets
Silicone
Connection
IP connection box

POWER LED

Voltage : 240V A.C with integrated Driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass with painted circumference 8 mm (Frosted Glass on request)
Cable : Potted 5 m 3x0,75 H03 VV-F





Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	510 lm	10°,25°,40°	266204
6W LED	3000 K	510 lm	10°,25°,40°	266201
6W LED	4500 K	510 lm	10°,25°,40°	266202
6W LED	6000 K	612 lm	10°,25°,40°	266203
12W LED	2700 K	510 lm	10°,25°,40°	266304
12W LED	3000 K	935 lm	10°,25°,40°	266301
12W LED	4500 K	935 lm	10°,25°,40°	266302
12W LED	6000 K	1070 lm	10°,25°,40°	266303


lounge



BELKIS 2

SURFACE MOUNTED CEILING FIXTURES
Class I IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Body
Die cast aluminium
Paint
Electrostatic powder
Bracket
Die cast aluminium
Diffusers
Tempered glass
Gaskets
Silicone
Connection
IP connection box

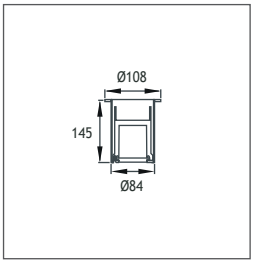


COB LED

Voltage : 240V A.C with integrated Driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass with painted circumference 8 mm (Frosted Glass on request)
Cable : Potted 5 m 3x0,75 H03 VV-F

Single color LED options upon request are ;
Blue Amber Green Red





Power	Kelvin	Real Lumen Output	Lens	Code No
3W LED	2700 K	285 lm	10°,25°,40°	435004
3W LED	3000 K	285 lm	10°,25°,40°	435001
3W LED	4500 K	290 lm	10°,25°,40°	435002
3W LED	6000 K	296 lm	10°,25°,40°	435003
9W LED	2700 K	855 lm	10°,25°,40°	435014
9W LED	3000 K	855 lm	10°,25°,40°	435011
9W LED	4500 K	872 lm	10°,25°,40°	435012
9W LED	6000 K	890 lm	10°,25°,40°	435013



BELKIS

SURFACE MOUNTED CEILING FIXTURES
Class I IP44

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

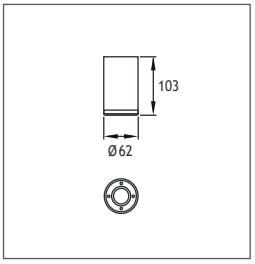


POWER LED or HALOGEN

Voltage : 240V A.C with integrated Driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Reflector : 25°, 30°, 40°, 42°, 50°
Diffuser : 4mm Frosted Glass for HALOGEN
Clear Glass with painted circumference 8 mm
Diffuser : G9/Gu10/E27/G12
Cable : Potted 5 m 3x0,75 H03 VV-F

BELKIS 1

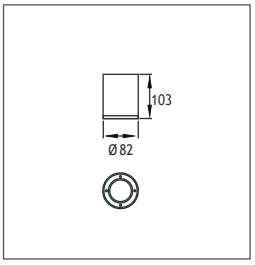




Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	427004
1W LED	3000 K	95 lm	10°,25°,40°	427001
1W LED	4500 K	97 lm	10°,25°,40°	427002
1W LED	6000 K	99 lm	10°,25°,40°	427003
25W HALOGEN	G9		40°	335101

BELKIS 2

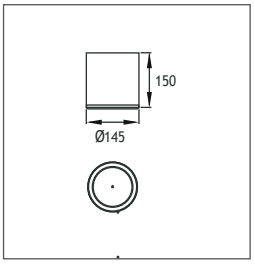




Power	Kelvin	Real Lumen Output	Lens	Code No
3W LED	2700 K	285 lm	10°,25°,40°	427104
3W LED	3000 K	285 lm	10°,25°,40°	427101
3W LED	4500 K	285 lm	10°,25°,40°	427102
3W LED	6000 K	296 lm	10°,25°,40°	427103
50W HALOGEN	Gu10		25°,50°	336111

BELKIS 5 HALOGEN

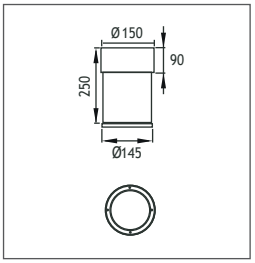




Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	427204
6W LED	3000 K	570 lm	10°,25°,40°	427201
6W LED	4500 K	581 lm	10°,25°,40°	427202
6W LED	6000 K	593 lm	10°,25°,40°	427203
6W LED	2700 K	855 lm	10°,25°,40°	427214
6W LED	3000 K	855 lm	10°,25°,40°	427211
6W LED	4500 K	872 lm	10°,25°,40°	427212
6W LED	6000 K	890 lm	10°,25°,40°	427213
75W HALOGEN	E27		30°	337121

BELKIS 5 METAL HALIDE





Power	Lampholder	Reflector	Code No
35W/70W	G12	30°,42	337131

EMFA

BELKIS

SURFACE MOUNTED CEILING FIXTURES
Class I IP44

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

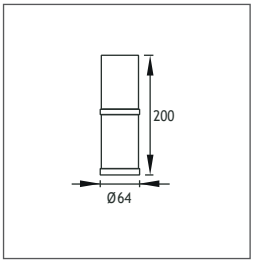


HALOGEN

Voltage : 240V A.C with integrated Driver (24V AC or DC on request)
Diffuser : Acrylic Pipe
Cable : Potted 5 m 3x0,75 H03 VV-F
Transformer : Electronic
Lampholder : G24 q-1/E27/G23/G24 d-2/G12

BELKIS 1

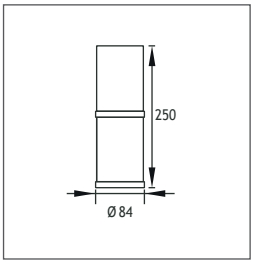




Power	Lampholder	Code No
COMPACT FLUO 13W	G24 q-1	293101

BELKIS 2

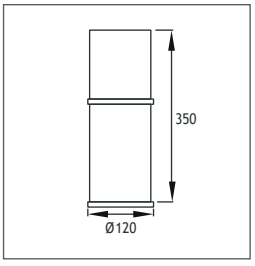




Power	Lampholder	Code No
ELECTRONIC FLUO DEL 23W	E27	293111

BELKIS 4





Power	Code No
ELECTRONIC FLUO DEL 23W	293121

EMFA

BELKIS

RECESSED CEILING FIXTURES
Class I IP44

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

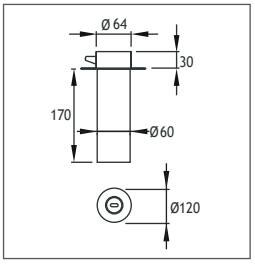


HALOGEN

Voltage : 240V A.C with integrated Driver (24V AC or DC on request)
Diffuser : Acrylic Pipe
Cable : Potted 5 m 3x0,75 H03 VV-F
Transformer : Electronic
Lampholder : G23/G24 d-2/G24 d-3

BELKIS 1

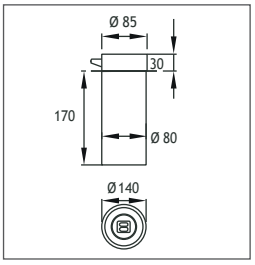




Power	Lampholder	Code No
COMPACT FLUO 9W	G23	296101

BELKIS 2

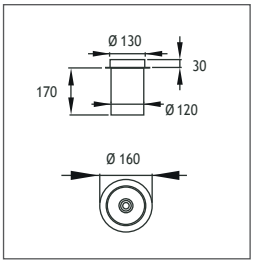




Power	Lampholder	Code No
COMPACT FLUO 18W	G24 d-2	296111

BELKIS 5

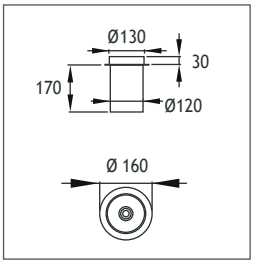




Power	Lampholder	Code No
COMPACT FLUO 26W	G24 d-3	296121

BELKIS 5





Power	Lampholder	Code No
METAL HALIDE 35W	G12	296131

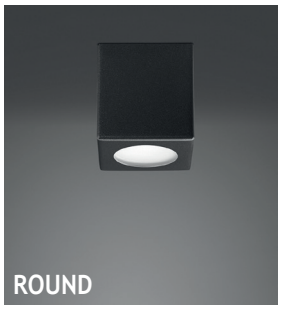
BERGAMA

SURFACE MOUNTED CEILING FIXTURES
Class I IP20

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015





HALOGEN

Voltage : 240V A.C with integrated Driver (24V AC or DC on request)

Reflector : Symmetrical

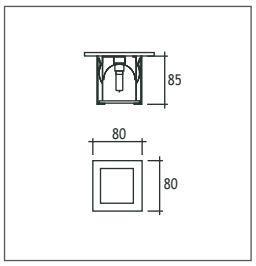
Cable : Potted 5 m 3x0,75 H03 VV-F

Transformer : Included

Lampholder : Gu5.3/G9/Gu10/R7 s/G24 D-1/G24 d-2/G24 d-3

SQUARE

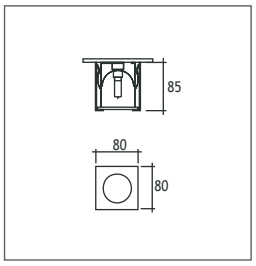




Power	Lampholder	Code No
50W HALOGEN	Gu 5.3	360101
25W HALOGEN	G9	360111
50W HALOGEN	Gu10	360121

ROUND

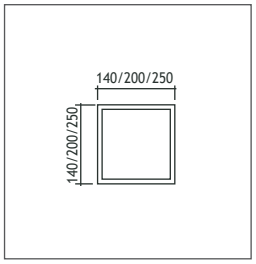




Power	Lampholder	Code No
50W HALOGEN	Gu 5.3	360201
25W HALOGEN	G9	360211
50W HALOGEN	Gu10	360221

FROSTED GLASS





Power	Lampholder	Code No
60W LINEAR HALOGEN	R7 s	363101
2 x 18W COMPACT FLUO HALOGEN	G24 d-2	379101
2 x 26W COMPACT FLUO HALOGEN	G24 d-3	380101
40W HALOGEN HALOGEN	G9	363111
10W COMPACT FLUO HALOGEN	G24 d-1	363121

EMFA



Pendants



VUVUZELA

PENDANT
IP20

Available in any of these RAL colors





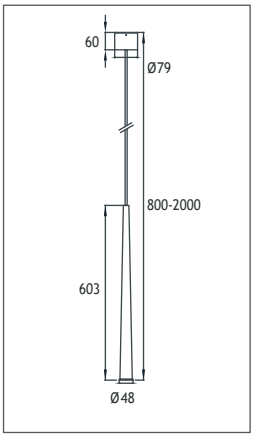
Body
Black, gold or silver plated
304 stainless steel
Diffusers
Tempered Glass
Gaskets
Silicone
Mounting
Aluminium
Screws
316L stainless steel

POWER LED

Lamps : 4 x 700 mA (10W) LED
Lens : 40°
Transformer mounting : Remote
Transformer type : Electronic
Gear : 240v non-dimmable driver (1-10v dimmable driver & request)
Cable : 0.5m 2x0.75mm h03 w-f

RECESSED MOUNTED

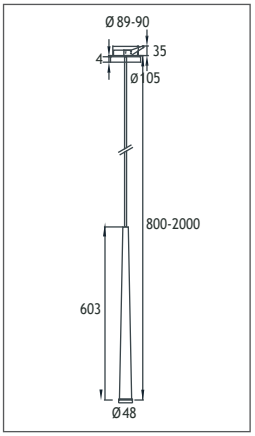




Power	Kelvin	Lens	Lumen Output	Code No
10W LED	2700 K	40°	950 lm	117002
10W LED	3000 K	40°	950 lm	117001

SURFACE MOUNTED





Power	Kelvin	Lens	Lumen Output	Code No
10W LED	2700 K	40°	950 lm	117012
10W LED	3000 K	40°	950 lm	117011



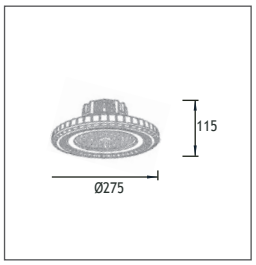
KATENER

HIGH BAY LED FIXTURES
IP65

Body
Die cast aluminium
Cover
Steel
Gaskets
Silicone
Screws
316L stainless steel

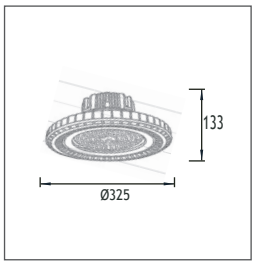
Voltage : 240 V A.C with integrated driver (24V AC or DC on request)
Lens : Optical Lens 60°/90°/120°
Cable : Potted 5 m 3x0,75 H03 VV-F





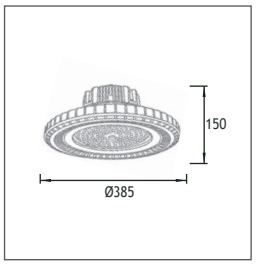
Power	Kelvin	Lens	Lumen Output	Code No
100W	2700 K	60°,90°,120°	9500 lm	436003
100W	4500 K	60°,90°,120°	9688 lm	436001
100W	6000 K	60°,90°,120°	9880 lm	436002





Power	Kelvin	Lens	Lumen Output	Code No
150W	2700 K	60°,90°,120°	14250 lm	436013
150W	4500 K	60°,90°,120°	14532 lm	436011
150W	6000 K	60°,90°,120°	14820 lm	436012





Power	Kelvin	Lens	Lumen Output	Code No
200W	2700 K	60°,90°,120°	19000 lm	436023
200W	4500 K	60°,90°,120°	19376 lm	436021
200W	6000 K	60°,90°,120°	19760 lm	436022


HOME
VISITOR
Fenerbahçe kadın voleybol takımı'nın destekçisiyiz!
opet

ELEA PENDANT FIXTURES

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Body
Acrylic
Side Caps
Aluminium
Reflector
Aluminium
Wires
Adjustable Suspending Steel Wire
Diffusers
Acrylic
Gear
Electronic
Mounting Brackets
Aluminium

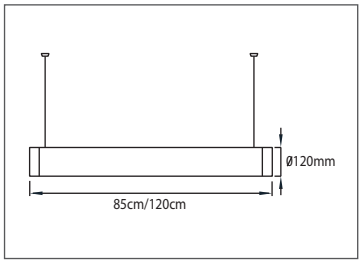


HALOGEN

Voltage : 240 VAC Class II
Diffuser : Acrylic
Lamp : Fluo. G5
Gear : Integrated in tube

ELEA





Power	Lampholder	Code No
FLUO 24W	G5	433101
3FLUO 5W	G5	433111

KARIA 2

PENDANT FIXTURES
Class I IP44 IK07

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

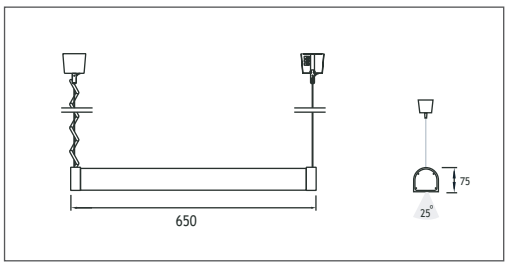
HALOGEN

Voltage : 240V AC with integrated ballast
Diffuser : 4 mm Clear Glass
Lampholder : G5
Ballast : Electronic



KARIA 2

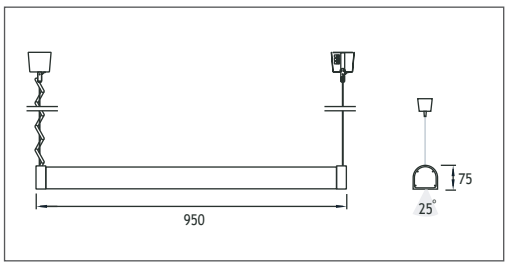




Power	Lampholder	Code No
T5 14W/24W	G5	431401

KARIA 3





Power	Lampholder	Code No
T5 21W/39W	G5	431501

EMFA

TROY

PENDANT FIXTURES
Class I IP55
(with glass & gasket)

HALOGEN
Head
Glass reinforced polyamide 6
Gear box inside
Reflector
Opaque ABS or translucent acrylic

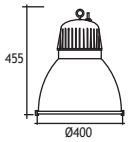




TROY

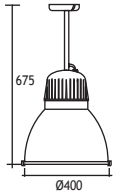


With Ring



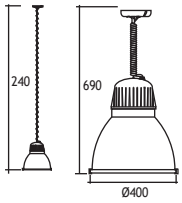
Please use 150... as the first three digits of the code number

With Suspending Rod And Bracket



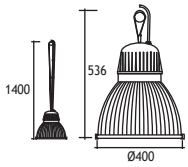
Please use 151... as the first three digits of the code number

With Adjustable Suspending Steel & Wire Spring Cable



Please use 153... as the first three digits of the code number

With Adjustable Suspending Steel Wire & Cable For Mounting On Pipe



Please use 154... as the first three digits of the code number

1 x ELEC. FL. DEL 23 23W

Lampholder : E27	Code No
Translucent	xxx101
Opaque	xxx501

2 x ELEC. FL. DEL 23 23W

Lampholder : E27	Code No
Translucent	xxx111
Opaque	xxx511

1 x COMPACT FLUOR. 26W

Lampholder : G24 d-3	Code No
Translucent	xxx141
Opaque	xxx541

2 x COMPACT FLUOR. 26W

Lampholder : G24 d-3	Code No
Translucent	xxx151
Opaque	xxx551

1 x COMPACT FLUOR. 42W

Lampholder : G24 q-4	Code No
Translucent	xxx181
Opaque	xxx581

Pole Fixtures



TRION LED POLE
Class I IP65 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

EMFA's Trion series combines a die-cast aluminium head with an extrusion aluminium pipe to provide a sturdy, outdoor bollard/pole. The fixture is designed to light pathways, landscapes and open spaces. The TRION pole gives light both in the downward and upward direction. The light is very directional and honeycomb louvers can be used to avoid extra glare. The head and pipe are connected by a hidden screw within the pipe. The head contains LEDs that can be powered up to 12-24W. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative



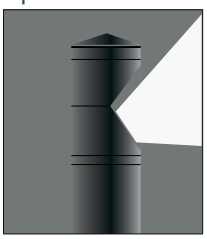


Head
Die cast aluminium
Diffuser
Tempered Glass
Pipe
Aluminium
Paint
Electrostatic powder

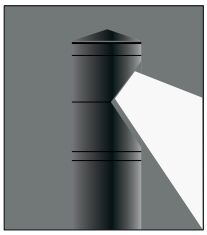




Up



Down



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.









EMFA

TRION LED POLE
Class I IP65 IK10

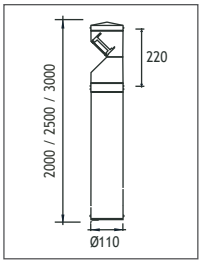
Available in any of these RAL colors



Led : Power or COB LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Tempered Clear or Frosted Glass

Trion 1 Single

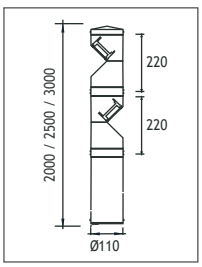




Power	Kelvin	Real Lumen Output	Lens	Code No 200 cm	250 cm	300 cm
6W LED	2700 K	570 lm	10°,25°,40°	181001	181101	181201
6W LED	3000 K	570 lm	10°,25°,40°	181002	181102	181202
6W LED	4500 K	581 lm	10°,25°,40°	181003	181103	181203
6W LED	6000 K	592 lm	10°,25°,40°	181004	181104	181204
11W LED	2700 K	1045 lm	10°,25°,40°	181011	181111	181211
11W LED	3000 K	1045 lm	10°,25°,40°	181012	181112	181212
11W LED	4500 K	1065 lm	10°,25°,40°	181013	181113	181213
11W LED	6000 K	1087 lm	10°,25°,40°	181014	181114	181214

Trion 1 Twin

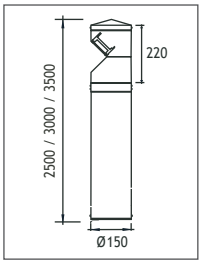




Power	Kelvin	Real Lumen Output	Lens	Code No 200 cm	250 cm	300 cm
6W LED	2700 K	570 lm	10°,25°,40°	182001	182101	182201
6W LED	3000 K	570 lm	10°,25°,40°	182002	182102	182202
6W LED	4500 K	581 lm	10°,25°,40°	182003	182103	182203
6W LED	6000 K	592 lm	10°,25°,40°	182004	182104	182204
11W LED	2700 K	1045 lm	10°,25°,40°	182011	182111	182211
11W LED	3000 K	1045 lm	10°,25°,40°	182012	182112	182212
11W LED	4500 K	1065 lm	10°,25°,40°	182013	182113	182213
11W LED	6000 K	1087 lm	10°,25°,40°	182014	182114	182214

Trion 2 Single

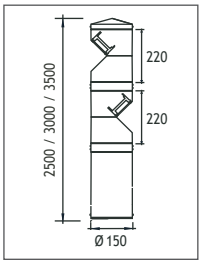




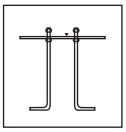
Power	Kelvin	Real Lumen Output	Lens	Code No 250 cm	300 cm	350 cm
11W LED	2700 K	1045 lm	10°,25°,40°	183001	183101	183201
11W LED	3000 K	1045 lm	10°,25°,40°	183002	183102	183202
11W LED	4500 K	1065 lm	10°,25°,40°	183003	183103	183203
11W LED	6000 K	1087 lm	10°,25°,40°	183004	183104	183204
24W LED	2700 K	2280 lm	10°,25°,40°	183011	183111	183211
24W LED	3000 K	2280 lm	10°,25°,40°	183012	183112	183212
24W LED	4500 K	2350 lm	10°,25°,40°	183013	183113	183213
24W LED	6000 K	2395 lm	10°,25°,40°	183014	183114	183214

Trion 2 Twin





Power	Kelvin	Real Lumen Output	Lens	Code No 250 cm	300 cm	350 cm
11W LED	2700 K	1045 lm	10°,25°,40°	184001	184101	184201
11W LED	3000 K	1045 lm	10°,25°,40°	184002	184102	184202
11W LED	4500 K	1065 lm	10°,25°,40°	184003	184103	184203
11W LED	6000 K	1087 lm	10°,25°,40°	184004	184104	184204
24W LED	2700 K	2280 lm	10°,25°,40°	184011	184111	184211
24W LED	3000 K	2280 lm	10°,25°,40°	184012	184112	184212
24W LED	4500 K	2350 lm	10°,25°,40°	184013	184113	184213
24W LED	6000 K	2395 lm	10°,25°,40°	184014	184114	184214



For Trion **Anchor** Code No: 953781

EMFA

EDESSA

LED POLE
Class I IP65 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

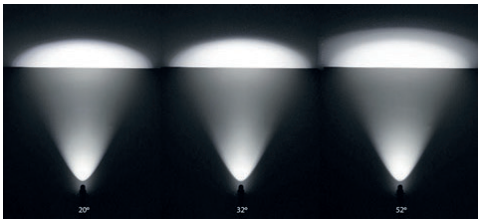
The Edessa pole series have LED light sources to deliver the desired light effect to streets, squares, bridges and monuments. The series is made of die cast aluminium and painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment (grey, anthracite, black, white, green and beige). The Edessa Pole series have been designed for high efficiency and ease of installation incorporating the latest in LED technology and control systems. The special lens directs the light flow precisely and makes the whole luminaire system efficient. This compact and essential design is made of a combination of aluminium profile and die cast aluminium.





Body
Die cast aluminium
Pipe
Aluminium
Paint
Electrostatic powder
Gearbox Cover
Die cast aluminium
Gaskets
Silicone
Diffuser
Tempered Glass

“Customization” is EMFA’s standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 4 standard paint colors, 3 white tones, 3 wattages, and 3 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.







LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

EDESSA

LED POLE
Class I IP65 IK10

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015





COB LED

Voltage : 240V A.C with integrated Driver (24V AC or DC on request)

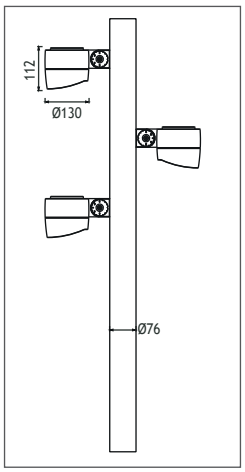
Lens : 10°, 25°, 40° or 60°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 2 m 3x1 H03 VV-F

EDESSA 2

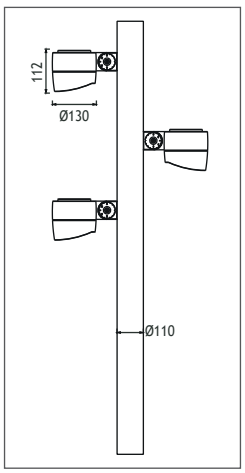




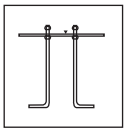
Height	Power	Kelvin	Real Lumen Output	Lens	Code No Single	Twin	Triple
2000mm	18W LED	2700 K	1710 lm	10°,25°,40°,60°	185001	185101	185201
2000mm	18W LED	3000 K	1710 lm	10°,25°,40°,60°	185002	185102	185202
2000mm	18W LED	4500 K	1744 lm	10°,25°,40°,60°	185003	185103	185203
2000mm	18W LED	6000 K	1779 lm	10°,25°,40°,60°	185004	185104	185204
2500mm	22W LED	2700 K	2090 lm	10°,25°,40°,60°	185011	185111	185211
2500mm	22W LED	3000 K	2090 lm	10°,25°,40°,60°	185012	185112	185212
2500mm	22W LED	4500 K	2120 lm	10°,25°,40°,60°	185013	185113	185213
2500 mm	22W LED	6000 K	2185 lm	10°,25°,40°,60°	185014	185114	185214
3000mm	26W LED	2700 K	2470 lm	10°,25°,40°,60°	185021	185121	185221
3000mm	26W LED	3000 K	2470 lm	10°,25°,40°,60°	185022	185122	185222
3000mm	26W LED	4500 K	2525 lm	10°,25°,40°,60°	185023	185123	185223
3000mm	26W LED	6000 K	2560 lm	10°,25°,40°,60°	185024	185124	185224

EDESSA 2





Height	Power	Kelvin	Real Lumen Output	Lens	Code No Single	Twin	Triple
2000mm	18W LED	2700 K	1710 lm	10°,25°,40°,60°	186001	186101	186201
2000mm	18W LED	3000 K	1710 lm	10°,25°,40°,60°	186002	186102	186202
2000mm	18W LED	4500 K	1744 lm	10°,25°,40°,60°	186003	186103	186203
2000mm	18W LED	6000 K	1779 lm	10°,25°,40°,60°	186004	186104	186204
2500mm	22W LED	2700 K	2090 lm	10°,25°,40°,60°	186011	186111	186211
2500mm	22W LED	3000 K	2090 lm	10°,25°,40°,60°	186012	186112	186212
2500mm	22W LED	4500 K	2120 lm	10°,25°,40°,60°	186013	186113	186213
2500 mm	22W LED	6000 K	2185 lm	10°,25°,40°,60°	186014	186114	186214
3000mm	26W LED	2700 K	2470 lm	10°,25°,40°,60°	186021	186121	186221
3000mm	26W LED	3000 K	2470 lm	10°,25°,40°,60°	186022	186122	186222
3000mm	26W LED	4500 K	2525 lm	10°,25°,40°,60°	186023	186123	186223
3000mm	26W LED	6000 K	2560 lm	10°,25°,40°,60°	186024	186124	186224





For Edessa

Anchor
Code No: 953781

Honeycomb
Code No: 953782

LEON LED POLE
Class I IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

EMFA's Leon pole combines a die-cast aluminium head housing an LED unit with an extrusion aluminium pipe. The pole is designed to light pathways, landscapes and open spaces. The Leon Pole gives light only in the downward direction. This avoids any kind of glare and light pollution. The head and pipe are connected by a hidden screw within the pipe. The head contains LEDs that can be powered up to 27W. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleave anchors for mounting onto existing concrete.



Head
Die cast aluminium
Diffusers
Frosted polyamide 6.6
Pipe
Electrostatic aluminium
Paint
Electrostatic powder

CIRCULAR LED

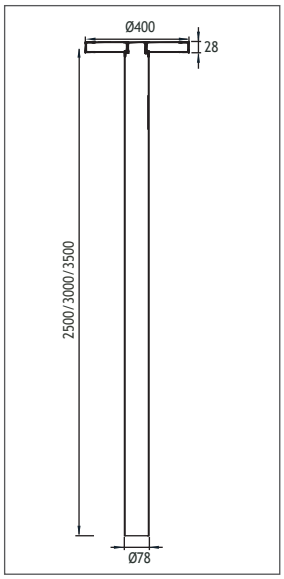
Led : Linear LEDs (27W)

Voltage : 240 VAC with integrated driver (12-24 VDC on request)

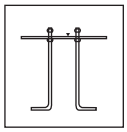
Diffuser : >80

EDESSA 2





Power	Kelvin	Real Lumen Output	Code No Single	Twin	Triple
27W	2700 K	2050 lm	187001	187101	187201
27W	3000 K	2050 lm	187002	187102	187202
27W	4000 K	2180 lm	187003	187103	187203



For Trion **Anchor** Code No: 953781

EMFA



MILET ANI

SIDE ALUM LED POLE
Class I IP65 IK08

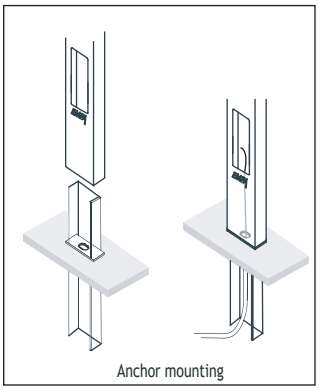
EMFA's ANI pole mounted series have been designed for high efficiency and ease of installation incorporating the latest in LED technology and control systems. The special lens directs the light flow precisely and makes the whole luminaire system efficient. This compact and essential design is made of a combination of aluminium profile and die cast aluminium.

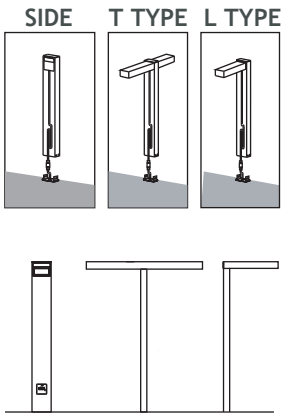
Pole
Aluminium profile
Body
Die cast aluminium
Gaskets
Silicone
Diffusers
4 mm Tempered Glass
Screws
316L Stainless Steel
Glands
PG 11





"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, and available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.





Fuse Box



Anchor



LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

ANI 4

ALUM LED POLE
Class I IP65 IK08

Available in any of these RAL colors

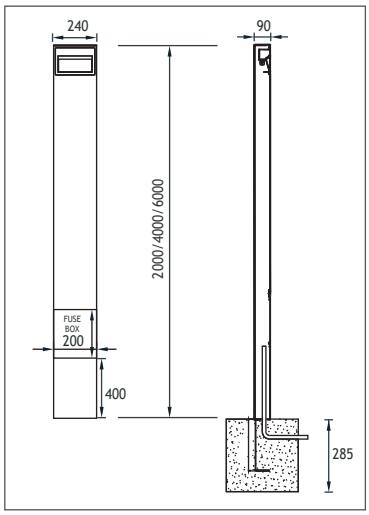
7004 7016 9005 9016 6002 1015

Led : Linear LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : 4mm Tempered Glass
Beam Angle : 45° / 60° / 90°
Mac Adam : 3
CRI : >80
L.O.R % : %70



SIDE





Power	Kelvin	Real Lumen Output	Lens	Code No 2000mm	4000mm	6000mm
24W	2700 K	2280 lm	10°,25°,40°	460003	460103	460203
24W	3000 K	2280 lm	10°,25°,40°	460001	460101	460201
24W	4000 K	2320 lm	10°,25°,40°	460002	460102	460202
36W	2700 K	3420 lm	10°,25°,40°	460013	460113	460213
36W	3000 K	3420 lm	10°,25°,40°	460011	460111	460211
36W	4000 K	3520 lm	10°,25°,40°	460012	460112	460212

ANI 4

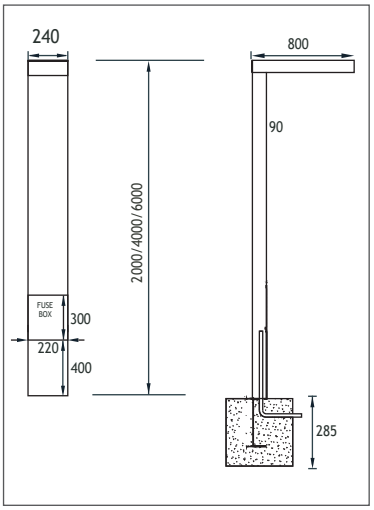
ALUM LED POLE
Class I IP65 IK08

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

L TYPE

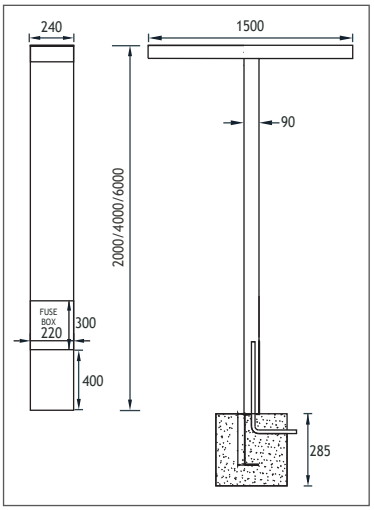




Power	Kelvin	Real Lumen Output	Lens	Code No 2000mm	4000mm	6000mm
24W	2700 K	2280 lm	10°,25°,40°	461003	461103	461203
24W	3000 K	2280 lm	10°,25°,40°	461001	461101	461201
24W	4000 K	2320 lm	10°,25°,40°	461002	461102	461202
48W	2700 K	3420 lm	10°,25°,40°	461013	461113	461213
48W	3000 K	3420 lm	10°,25°,40°	461011	461111	461211
48W	4000 K	3520 lm	10°,25°,40°	461012	461112	461212

T TYPE





Power	Kelvin	Real Lumen Output	Lens	Code No 2000mm	4000mm	6000mm
2x24W	2700 K	2280 lm	10°,25°,40°	462003	462103	462203
2x24W	3000 K	2280 lm	10°,25°,40°	462001	462101	462201
2x24W	4000 K	2320 lm	10°,25°,40°	462002	462102	462202
2x48W	2700 K	3420 lm	10°,25°,40°	462013	462113	462213
2x48W	3000 K	3420 lm	10°,25°,40°	462011	462111	462211
2x48W	4000 K	3520 lm	10°,25°,40°	462012	462112	462212

EMFA

BELKIS 5

ONE WAY APPLIQUE ON POLE
Class I IP55

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

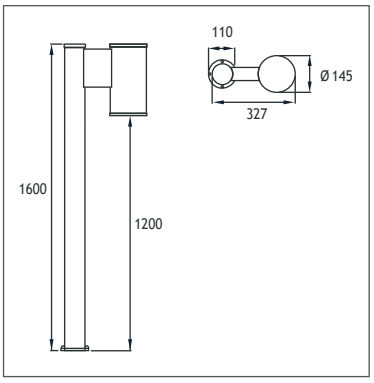
Cover
Die cast aluminium
Paint
Electrostatic powder
Pipe
Extrusion aluminium
Connection
IP connection box
Gaskets
Silicone
Diffusers
Tempered Clear Glass



HALOGEN

Lampholder : E27/G24 d-2
Reflector : 40
Diffuser : Clear Glass





Power	Reflector	Lampholder	Code No
ELECTRONIC FLUO 23W	40°	E27	295101
ELECTRONIC FLUO 18W	40°	G24 d-2	295111

GOREME

ACRYLIC POLE
Class I IP65

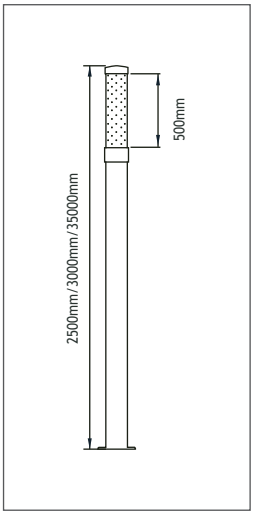
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Pipe
Steel
Body
Die cast aluminium
Cover
Die cast aluminium
Paint
Electrostatic powder
Diffuser
Acrylic Glass
Gaskets
Silicone
Connection
IP connection box







Power	Kelvin	Code No 2500mm	3000mm	3500mm
27W LED	2700 K	295303	295313	295323
27W LED	3000 K	295301	295311	295321
27W LED	4000 K	295302	295312	295322
48W LED	2700 K	295333	295343	295353
48W LED	3000 K	295331	295341	295351
48W LED	4000 K	295332	295342	295352

EMFA

GOREME

ACRYLIC REFLECTOR POLE
Class I IP65

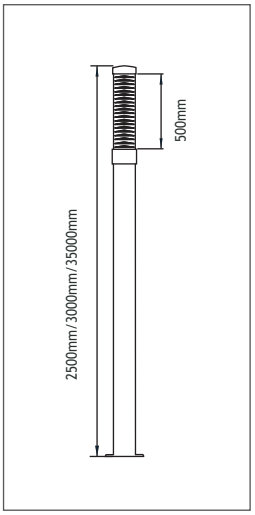
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Pipe
Steel
Body
Die cast aluminium
Cover
Die cast aluminium
Paint
Electrostatic powder
Diffusers
Acrylic Glass
Gaskets
Silicone
Connection
IP connection box







Power	Kelvin	Code No 2500mm	3000mm	3500mm
27W LED	2700 K	295203	295213	295223
27W LED	3000 K	295201	295211	295221
27W LED	4000 K	295202	295212	295222
48W LED	2700 K	295233	295243	295253
48W LED	3000 K	295231	295241	295251
48W LED	4000 K	295232	295242	295252



LPA POLE MOUNTED
Class I IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Body
Die cast aluminium
Cover
Spinning aluminium
Paint
Electrostatic powder
Diffusers
Acrylic Glass
Gaskets
Silicone
Connection
IP connection box



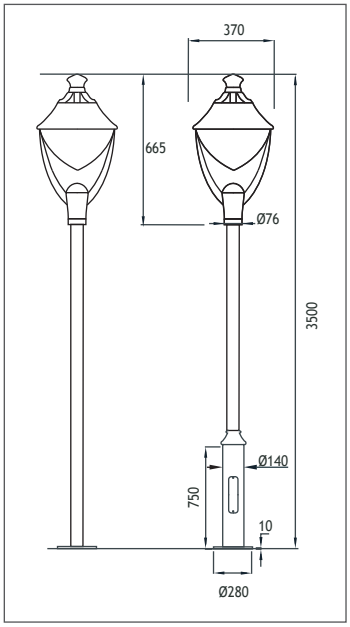
Code No
A



Code No
B







Power	Real Lumen Output	Kelvin	Code No
26W	2465 lm	2700 K	437603
26W	2465 lm	3000 K	437601
26W	2835 lm	6000 K	437602
36W	3420 lm	2700 K	437613
36W	3420 lm	3000 K	437611
36W	3930 lm	6000 K	437612
E27 CFL 65W			437621

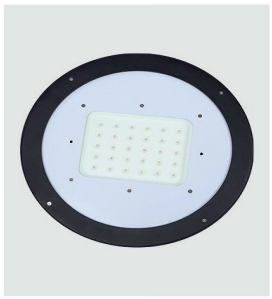
LPB POLE MOUNTED
Class I IP65

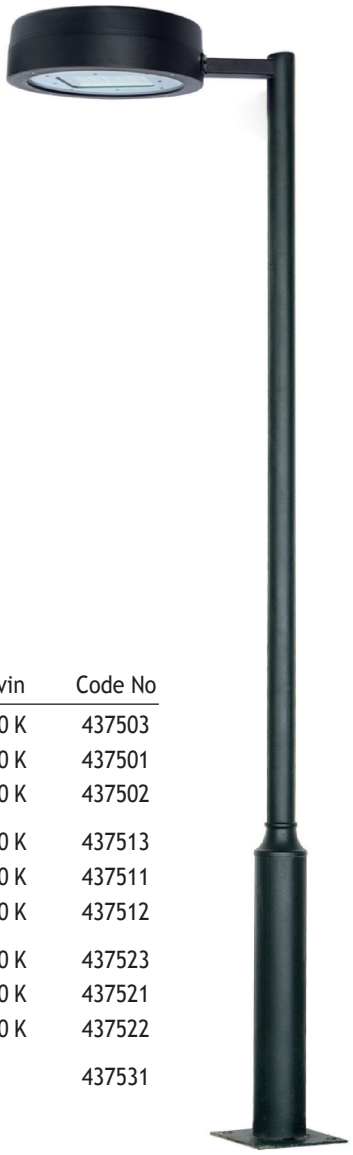
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

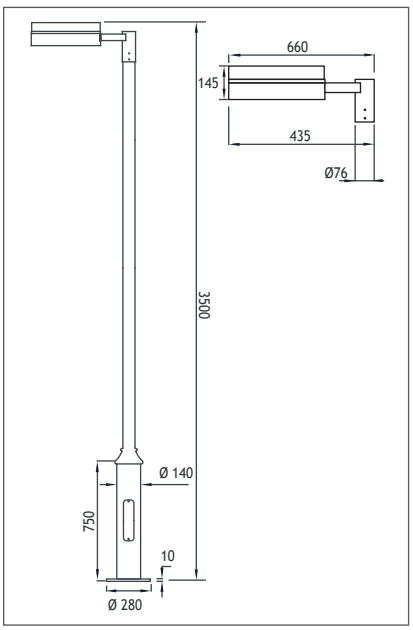
Body
Die cast aluminium
Cover
Spinning aluminium
Paint
Electrostatic powder
Diffusers
Acrylic Glass
Gaskets
Silicone
Connection
IP connection box











Power	Real Lumen Output	Kelvin	Code No
30W	2850 lm	2700 K	437503
30W	2850 lm	3000 K	437501
30W	3135 lm	6000 K	437502
46W	4370 lm	2700 K	437513
46W	4370 lm	3000 K	437511
46W	4807 lm	6000 K	437512
60W	5700 lm	2700 K	437523
60W	5700 lm	3000 K	437521
60W	6270 lm	6000 K	437522
65W E27 CFL			437531

EMFA

LPC POLE MOUNTED
Class I IP65

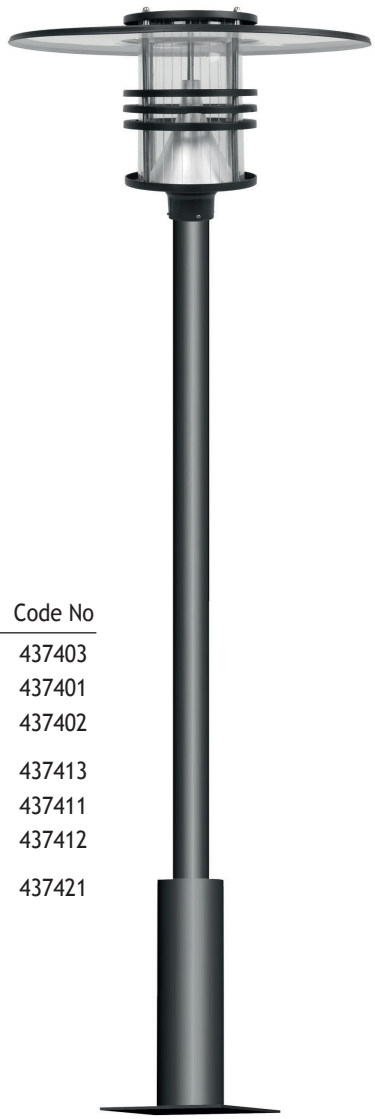
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

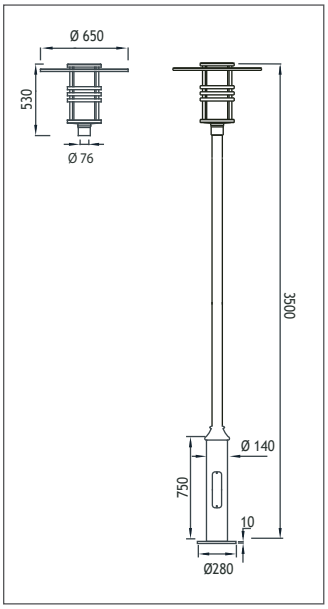
Pipe
Steel
Body
Die cast aluminium
Cover
Spinning aluminium
Paint
Electrostatic powder
Diffusers
Acrylic Glass
Gaskets
Silicone
Connection
IP connection box











Power	Real Lumen Output	Kelvin	Code No
26W	2465 lm	2700 K	437403
26W	2465 lm	3000 K	437401
26W	2835 lm	6000 K	437402
36W	3420 lm	2700 K	437413
36W	3420 lm	3000 K	437411
36W	3930 lm	6000 K	437412
65W			437421

LPD POLE MOUNTED
Class I IP65

Available in any of these RAL colors

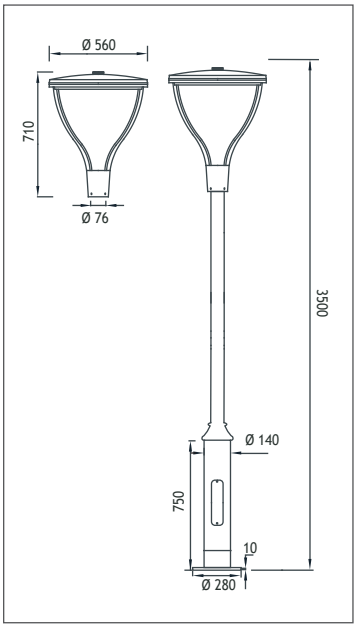
7004 7016 9005 9016 6002 1015

Pipe
Steel
Body
Die cast aluminium
Cover
Spinning aluminium
Paint
Electrostatic powder
Diffusers
Acrylic Glass
Gaskets
Silicone
Connection
IP connection box









Power	Real Lumen Output	Kelvin	Code No
35W	3325 lm	2700 K	437303
35W	3325 lm	3000 K	437301
35W	3657 lm	6000 K	437302
45W	4275 lm	2700 K	437313
45W	4275 lm	3000 K	437311
45W	4702 lm	6000 K	437312
60W	5700 lm	2700 K	437323
60W	5700 lm	3000 K	437321
60W	6270 lm	6000 K	437322
E27 CFL HALOGEN 65W			437331

EMFA

LPE POLE MOUNTED
Class I IP65

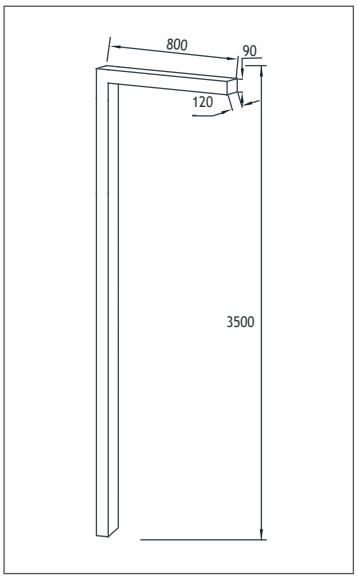
Available in any of these RAL colors

7004 7016 9005 9016 6002 1015

Body
Extruded aluminium pole
Paint
Electrostatic powder
Diffusers
Acrylic Glass
Gaskets
Silicone
Connection
IP connection box

L TYPE

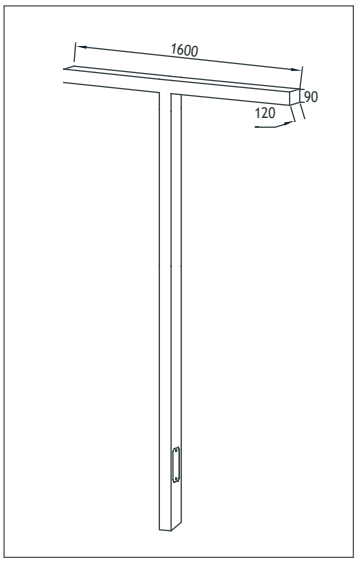




Power	Real Lumen Output	Kelvin	Code No
20W	1900 lm	2700 K	437203
20W	1900 lm	3000 K	437201
20W	2090 lm	6000 K	437202
30W	2850 lm	2700 K	437223
30W	2850 lm	3000 K	437221
30W	3135 lm	6000 K	437222
40W	3800 lm	2700 K	437243
40W	5562 lm	3000 K	437241
40W	4180 lm	6000 K	437242

T TYPE





Power	Real Lumen Output	Kelvin	Code No
20W	1900 lm	2700 K	437213
20W	1900 lm	3000 K	437211
20W	2090 lm	6000 K	437212
30W	2850 lm	2700 K	437233
30W	2850 lm	3000 K	437231
30W	3135 lm	6000 K	437232
40W	3800 lm	2700 K	437253
40W	5562 lm	3000 K	437251
40W	4180 lm	6000 K	437252

Fuse Box



Anchor



EMFA



20mA
Led Fixtures



BELKIS

RECESSED WALK OVER LED FIXTURES
Class II IP67

EMFA's 20mA LED fixtures are ideal for ambiance lighting outdoors and in where only touch of light is required. These fixtures apart from being used as orientation lights, can light steps and paths and highlight walls and columns acrylic are offered to fit the correct location. A choice of lighting or backlighting LEDs is offered to either a directional lighting efffect or a lighting glow.



"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, and available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

BACKLIGHTING LEDS

Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Glass 6 mm

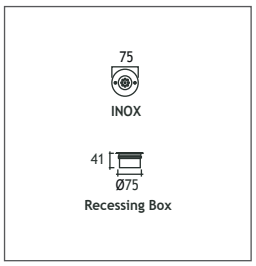
Standard with 5m 3x0,75 H03 VV-F cable

Available with springs for false ceiling.

Single color LED options upon request are ;
Blue Amber Green Red

BELKIS 1

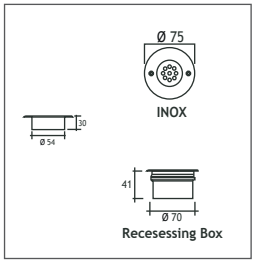




Power	Code No Inox
9x20mA	418101

BELKIS 1

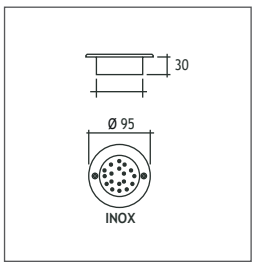




Power	Code No Inox
1x20mA	418111

BELKIS 2





Power	Code No Inox
18x20mA	418121

EMFA

BELKIS

WALL RECESSED LED FIXTURES
Class II IP67

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



LIGHTING or BACKLIGHTING LEDS

Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic (Not for walk-over)

Cable : Potted 5 m 3x0,75 H03 VV-F

Standard with 5m 3x0,75 H03 VV-F cable

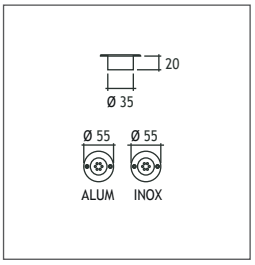
Available with springs for false ceiling.

Single color LED options upon request are ;

Blue Amber Green Red

BELKIS 0

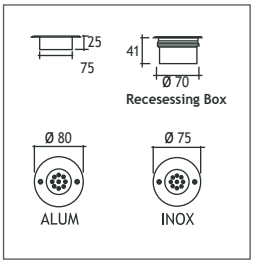




Power	Code No Alum	Inox
6x20mA LIGHTING LEDS	416201	416211
6x20mA LIGHTING LEDS	417101	417111

BELKIS 0

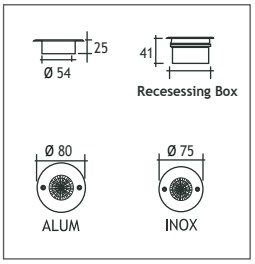




Power	Code No Alum	Inox
9x20mA LIGHTING LEDS	416261	416271
9x20mA BACKLIGHTING LEDS	417191	417201

BELKIS 1

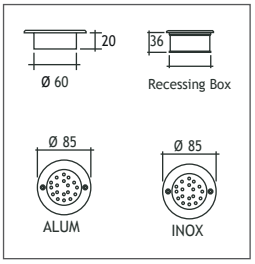




Power	Code No Alum	Inox
1x20mA BACKLIGHTING LEDS	407501	417351

BELKIS 2





Power	Code No
12x20mA LIGHTING LEDS	416281
4x20mA LIGHTING LEDS	416291
4x20mA BACKLIGHTING LEDS	416561
4x20mA BACKLIGHTING LEDS	416571

BELKIS

SURFACE MOUNTED LED FIXTURES
Class II IP67

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



LIGHTING or BACKLIGHTING LEDS

Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

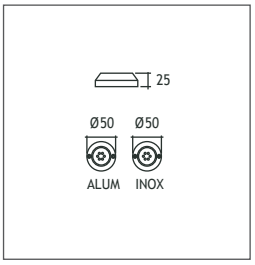
Diffuser : Clear Acrylic

Standard with 5m 3x0,75 H03 VV-F cable

Single color LED options upon request are ;
Blue Amber Green Red

BELKIS 0

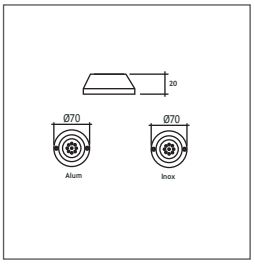




Power	Code No Alum	Inox
6x20mA LIGHTINGS LEDS	416221	416231
6x20mA BACKLIGHTING LEDS	417141	417151

BELKIS 0





Power	Code No Alum	Inox
9x20mA LIGHTING LEDS	417751	417761
9x20mA BACKLIGHTING LEDS	417271	417281

EMFA

DYO WALL RECESSED LED FIXTURES
Class II IP67



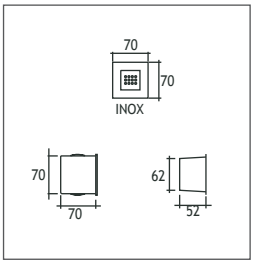
Outer Frame & Body
Anodized aluminium
Recessing Box
Galvanized Steel

Voltage : 240V A.C (12V AC or DC, 24V AC or DC on request)
Diffuser : Clear Polycarbonate
Cable : Standard with 5m 3x0,75 H03 VV-F cable

Single color LED options upon request are ;
Blue Amber Green Red

SYMMETRICAL INOX

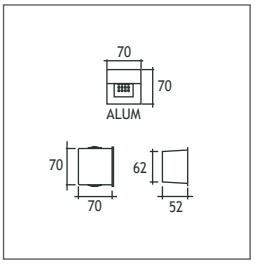




Power	Lens	Code No
12x20mA BACKLIGHTING LEDS	120°	404501

ASYMMETRICA INOX

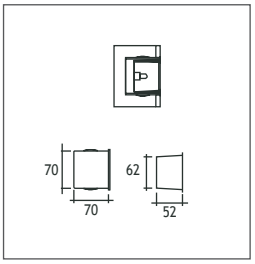




Power	Lens	Code No
12x20mA LIGHTING LEDS	30°	404511
4x20mA LIGHTING LEDS	30°	404521

ASYMMETRICAL ANODIZED ALUMINIUM

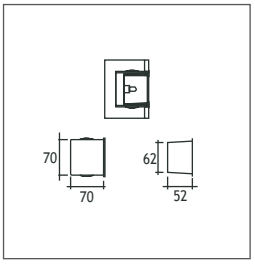




Power	Code No
3x20mA LIGHTING LEDS	405101

ASYMMETRICAL ANODIZED ALUMINIUM



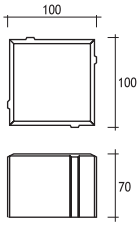


Power	Code No
4x20mA LIGHTING LEDS	405151

LIGHTSTONE

DRIVE OVER LED FIXTURES
Load 7.5 kN | Class III IP67 IK10

Body
Polycarbonate



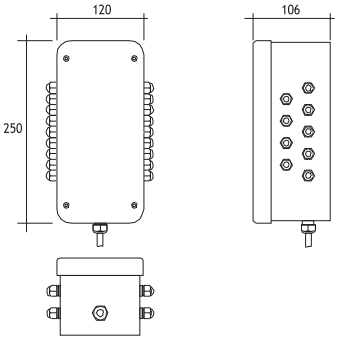


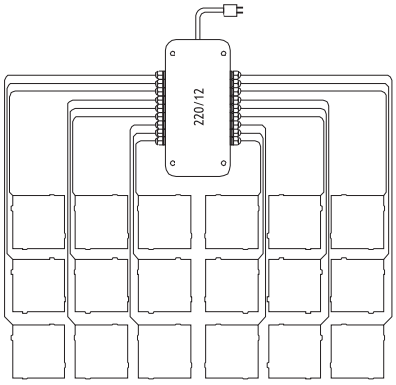
Voltage : 12V A.C standard with 10m cable

9 x 20 mA LEDS	Code No
Warm White	426101

Single color LED options upon request are ;
Blue Amber Green Red

Connection Box
Glass reinforced polyester
IP 67 recessable 18 cable glands to serve 18 lightstones complete with one 220 V AC - 12V AC transformer. Maximum distance to box is 50 m.





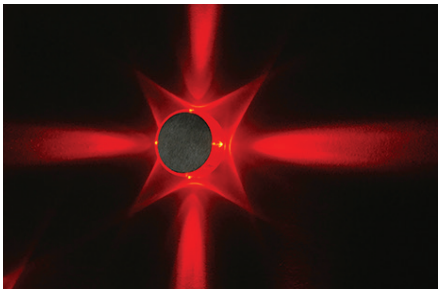
	Code No
Connection Box	426201

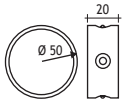
EMFA

TAROS

SURFACE MOUNTED LED FIXTURE
Class II IP67

Body
Acrylic
Cover
Stainless steel
Gear
Complete with Led Driver



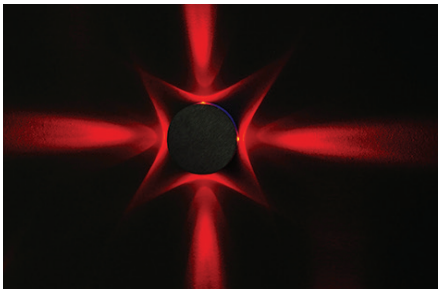


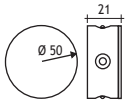
Voltage : 240V A.C Class II
(12V AC or DC, 24V AC or DC on request)

Standard with 5m 3x0,75 H03 VV-F cable

WITH LIT PERIMETER **4 x 20 mA LIGHTING LEDS**	Code No
Warm White	428101

Single color LED options upon request are ;
Blue Amber Green Red





Voltage : 240V A.C Class II
(12V AC or DC, 24V AC or DC on request)

Standard with 5m 3x0,75 H03 VV-F cable

WITH LIT PERIMETER **4 x 20 mA LIGHTING LEDS**	Code No
Warm White	428111

Single color LED options upon request are ;
Blue Amber Green Red