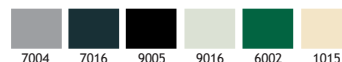


TRION

LED POLE

Class I IP65 IK10

Available in any
of these RAL colors



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



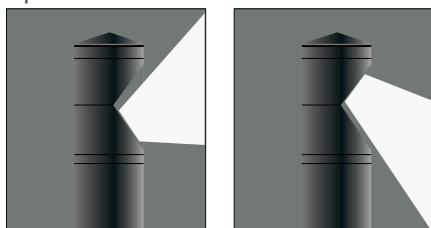
LEDs

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 temperature 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.



Up

Down



Trion 1 Single



Trion 1 Twin



Trion 2 Single



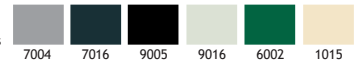
Trion 2 Twin



TRION LED POLE

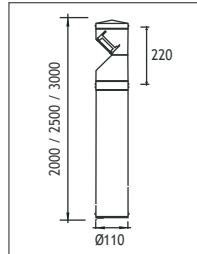
Class I IP65 IK10

Available in any
of these RAL colors



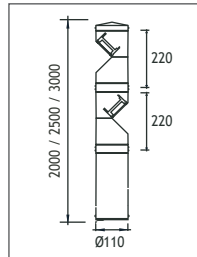
Led : Power or COB LEDs
Voltage : 240 VAC with integrated driver
 (12-24 VDC on request)
Diffuser : Tempered Clear or Frosted Glass

Trion 1 Single



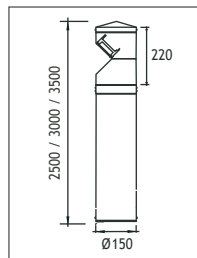
Power	Kelvin	Real Lumen Output	Lens	200 cm	Code No 250 cm	300 cm
6W LED	2700 K	570 lm	10°,25°,40°	181001	181101	181201
6W LED	3000 K	570 lm	10°,25°,40°	181002	181102	181202
6W LED	4500 K	581 lm	10°,25°,40°	181003	181103	181203
6W LED	6000 K	592 lm	10°,25°,40°	181004	181104	181204
11W LED	2700 K	1045 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



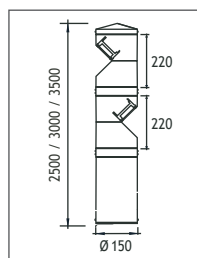
Power	Kelvin	Real Lumen Output	Lens	200 cm	Code No 250 cm	300 cm
6W LED	2700 K	570 lm	10°,25°,40°	182001	182101	182201
6W LED	3000 K	570 lm	10°,25°,40°	182002	182102	182202
6W LED	4500 K	581 lm	10°,25°,40°	182003	182103	182203
6W LED	6000 K	592 lm	10°,25°,40°	182004	182104	182204
11W LED	2700 K	1045 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

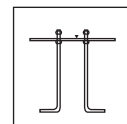


Power	Kelvin	Real Lumen Output	Lens	250 cm	Code No 300 cm	350 cm
11W LED	2700 K	1045 lm	10°,25°,40°	183001	183101	183201
11W LED	3000 K	1045 lm	10°,25°,40°	183002	183102	183202
11W LED	4500 K	1065 lm	10°,25°,40°	183003	183103	183203
11W LED	6000 K	1087 lm	10°,25°,40°	183004	183104	183204
24W LED	2700 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	250 cm	Code No 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

339

EMFA

EDESSA

LED POLE

Class I IP65 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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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

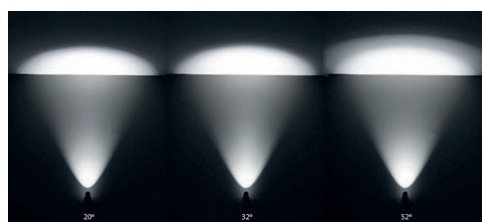
Diffuser

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 temperature 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
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COB LED

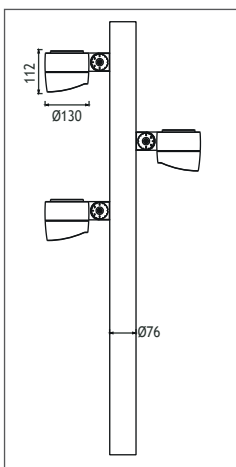
Voltage : 240V A.C with integrated Driver
(24V AC or DC on request)

Lens : 10°, 25°, 40° or 60°

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

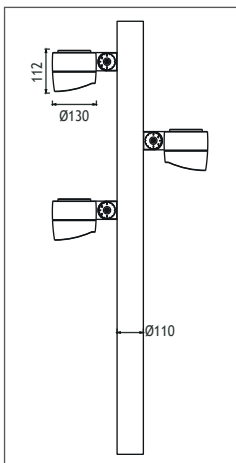
Cable : Potted 2 m 3x1 H03 VV-F

EDESSA 2

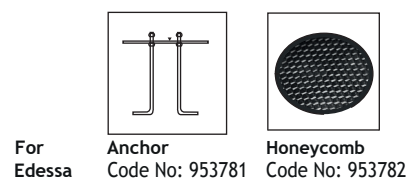


Height	Power	Kelvin	Real Lumen Output	Lens	Single	Code No Twin	Triple
2000mm	18W LED	2700 K	1710 lm	10°,25°,40°,60°	185001	185101	185201
2000mm	18W LED	3000 K	1710 lm	10°,25°,40°,60°	185002	185102	185202
2000mm	18W LED	4500 K	1744 lm	10°,25°,40°,60°	185003	185103	185203
2000mm	18W LED	6000 K	1779 lm	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	Single	Code No 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

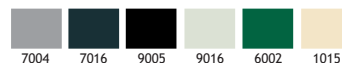


LEON

LED POLE

Class I IP65

Available in any
of these RAL colors



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 sleeve anchors for mounting onto existing concrete.

Head

Die cast aluminium

Diffusers

Frosted polyamide 6.6

Pipe

Electrostatic aluminium

Paint

Electrostatic powder



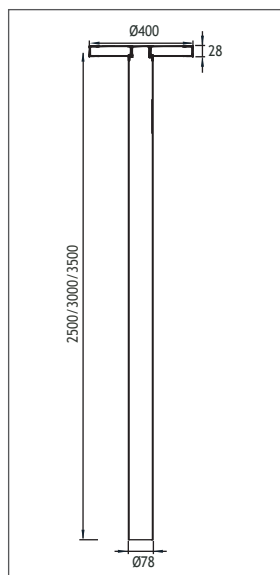
CIRCULAR LED

Led : Linear LEDs (27W)

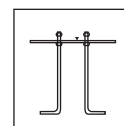
Voltage : 240 VAC with integrated driver
(12-24 VDC on request)

Diffuser : >80

EDESSA 2



Power	Kelvin	Real Lumen Output	Single	Code No 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





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

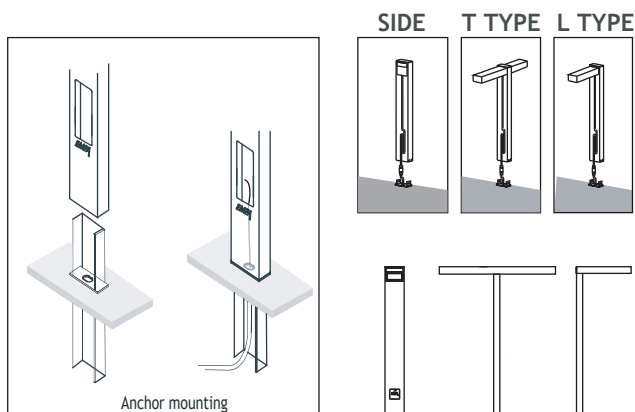
316L Stainless Steel

Glands

PG 11

"Customization" is EMFA's standard

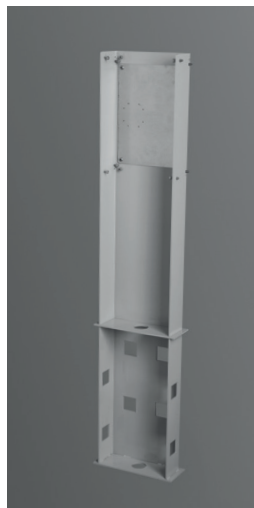
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, and available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well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

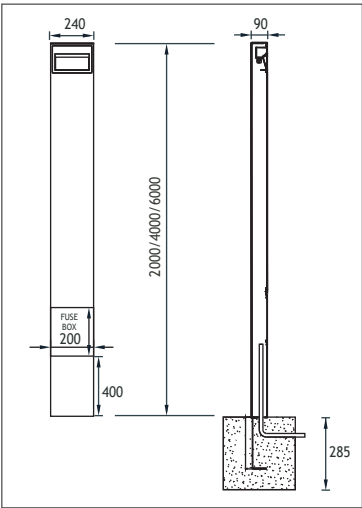
Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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- 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

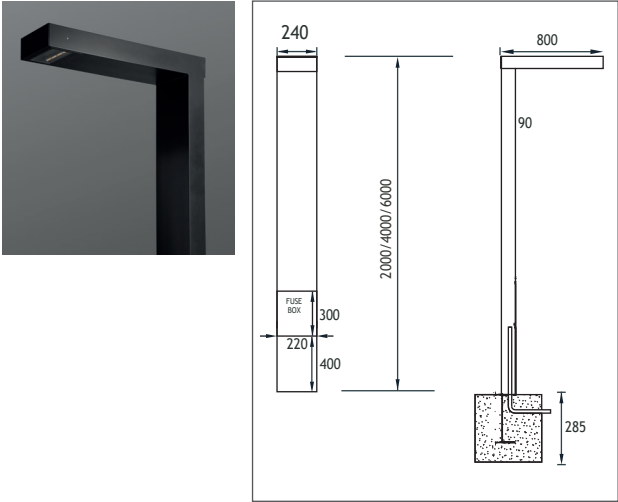
9005

9016

6002

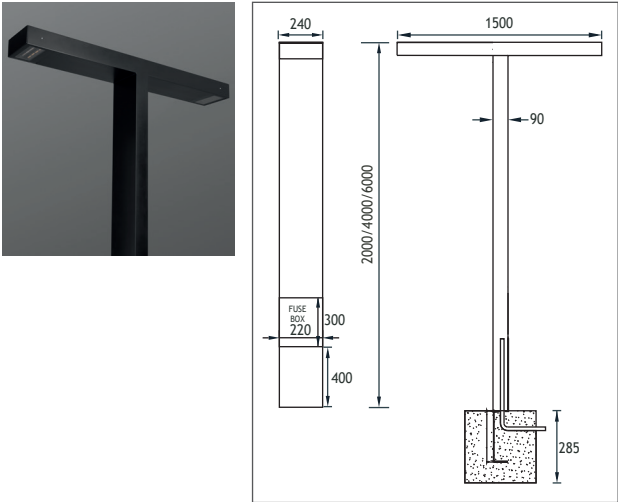
1015

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

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

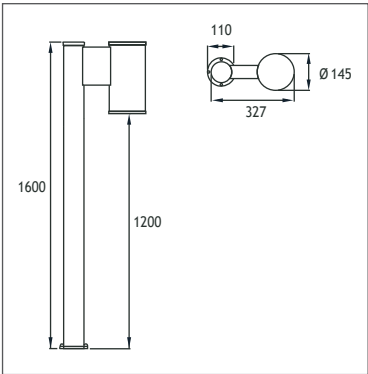
Tempered Clear Glass

- 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

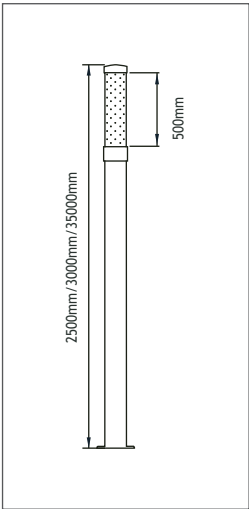
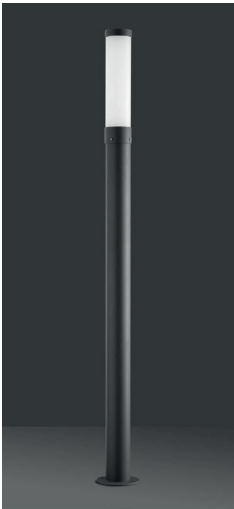
Acrylic Glass

Gaskets

Silicone

Connection

IP connection box



Power	Kelvin	2500mm	Code No	
			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

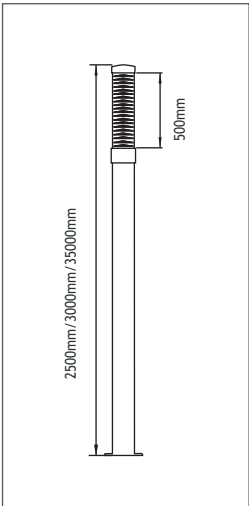
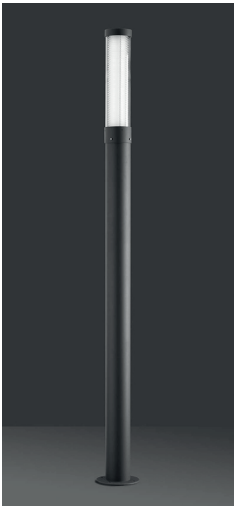
GOREME

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	2500mm	Code No	
			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

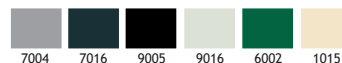


LPA

POLE MOUNTED

Class I IP65

Available in any
of these RAL colors



Body

Die cast aluminium

Cover

Spinning aluminium

Paint

Electrostatic powder

Diffusers

Acrylic Glass

Gaskets

Silicone

Connection

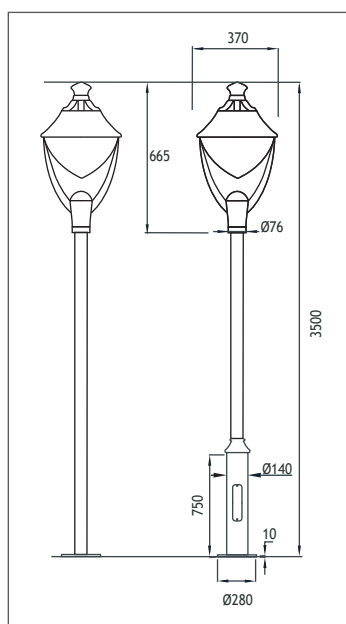
IP connection box



Code No
A



Code No
B

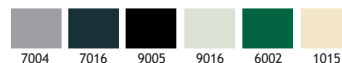


Power	Real Lumen Output	Kelvin	Code No
26W	2465 lm	2700 K	437603
26W	2465 lm	3000 K	437601
26W	2835 lm	6000 K	437602
36W	3420 lm	2700 K	437613
36W	3420 lm	3000 K	437611
36W	3930 lm	6000 K	437612
E27 CFL 65W			437621

LPB POLE MOUNTED

Class I IP65

Available in any
of these RAL colors



Body

Die cast aluminium

Cover

Spinning aluminium

Paint

Electrostatic powder

Diffusers

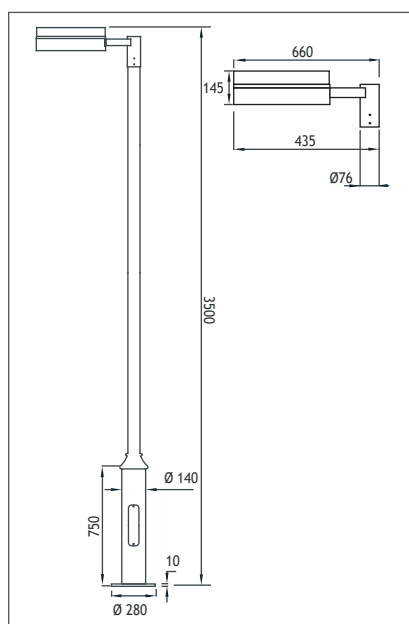
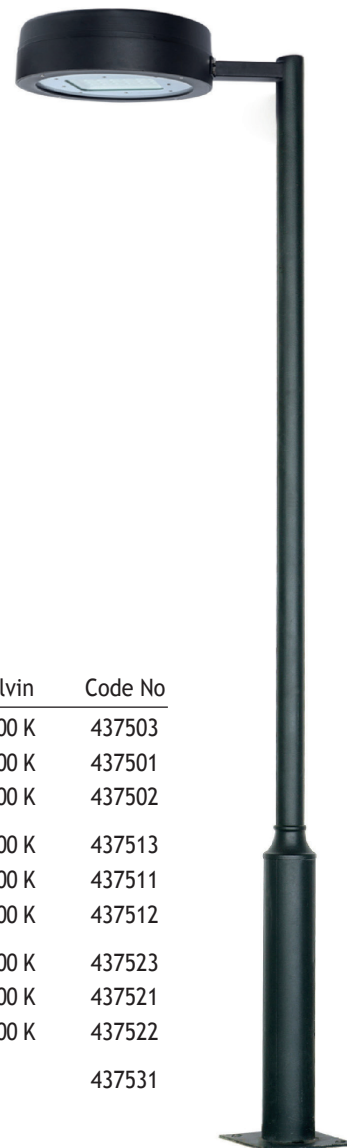
Acrylic Glass

Gaskets

Silicone

Connection

IP connection box



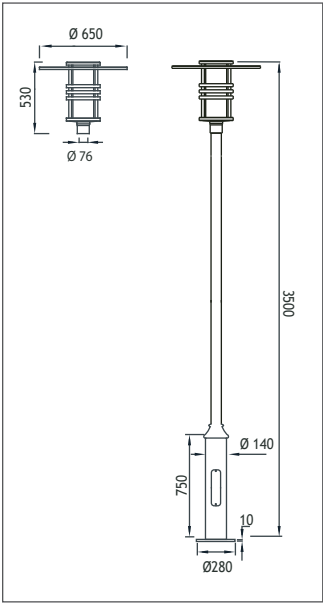
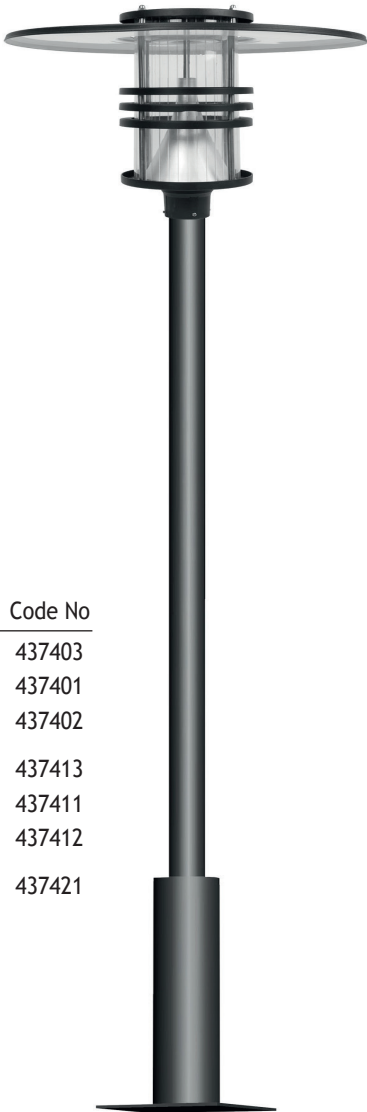
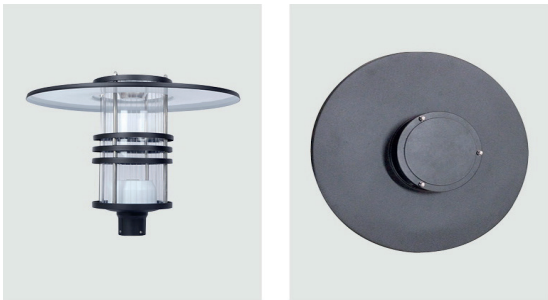
Power	Real Lumen Output	Kelvin	Code No
30W	2850 lm	2700 K	437503
30W	2850 lm	3000 K	437501
30W	3135 lm	6000 K	437502
46W	4370 lm	2700 K	437513
46W	4370 lm	3000 K	437511
46W	4807 lm	6000 K	437512
60W	5700 lm	2700 K	437523
60W	5700 lm	3000 K	437521
60W	6270 lm	6000 K	437522
65W E27 CFL			437531

LPC POLE MOUNTED
Class I IP65

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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- Pipe
- Steel
- Body
- Die cast aluminium
- Cover
- Spinning aluminium
- Paint
- Electrostatic powder
- Diffusers
- Acrylic Glass
- Gaskets
- Silicone
- Connection
- IP connection box



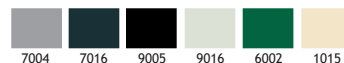
Power	Real Lumen Output	Kelvin	Code No
26W	2465 lm	2700 K	437403
26W	2465 lm	3000 K	437401
26W	2835 lm	6000 K	437402
36W	3420 lm	2700 K	437413
36W	3420 lm	3000 K	437411
36W	3930 lm	6000 K	437412
65W			437421

LPD

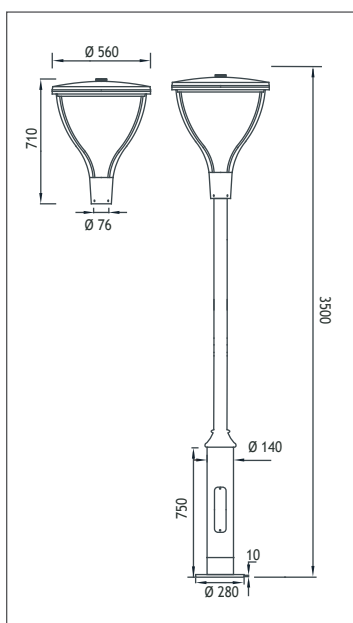
POLE MOUNTED

Class I IP65

Available in any
of these RAL colors



Pipe
Steel
Body
Die cast aluminium
Cover
Spinning aluminium
Paint
Electrostatic powder
Diffusers
Acrylic Glass
Gaskets
Silicone
Connection
IP connection box

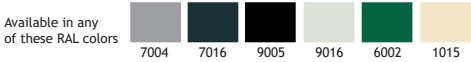


Power	Real Lumen Output	Kelvin	Code No
35W	3325 lm	2700 K	437303
35W	3325 lm	3000 K	437301
35W	3657 lm	6000 K	437302
45W	4275 lm	2700 K	437313
45W	4275 lm	3000 K	437311
45W	4702 lm	6000 K	437312
60W	5700 lm	2700 K	437323
60W	5700 lm	3000 K	437321
60W	6270 lm	6000 K	437322
E27 CFL HALOGEN 65W			437331

LPE

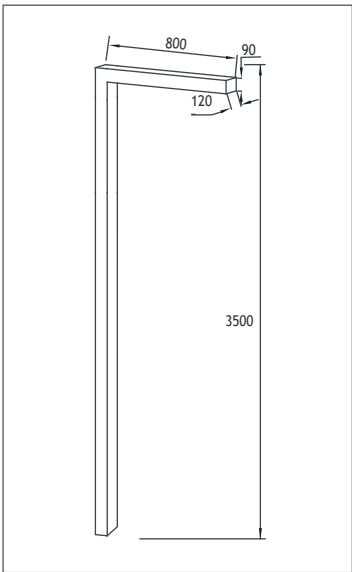
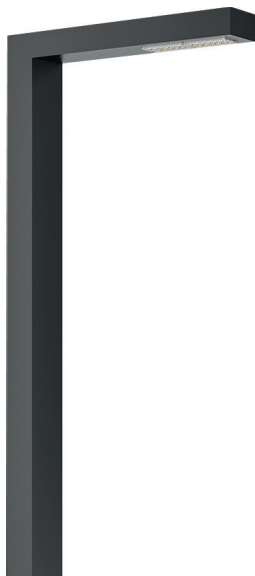
POLE MOUNTED

Class I IP65



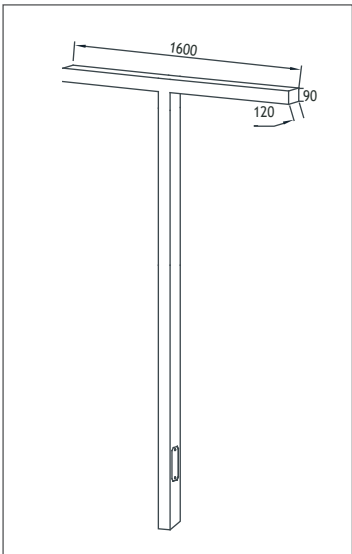
- Body
 - Extruded aluminium pole
- Paint
 - Electrostatic powder
- Diffusers
 - Acrylic Glass
- Gaskets
 - Silicone
- Connection
 - IP connection box

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

