

DARA LED SPOTS
Class I IP65 IK08

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 simple adaptor. Once installed, the special joint system allows for 100° horizontal and 180° vertical adjustment.

The LEDs used come in 4 different tones of white (2700K, 3000K, 4000K, 6000K). Several lenses from 10 to 30 degrees are available to choose from to achieve the desired light effect.

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

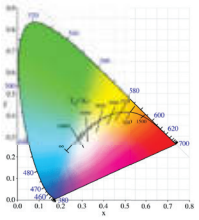
"Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is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







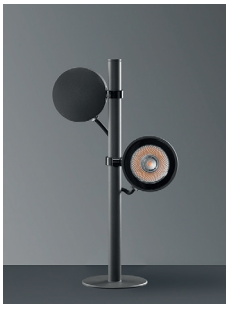




LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color 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 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.

DARA LED SPOTS
Class I IP65 IK08


COB LEDs

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

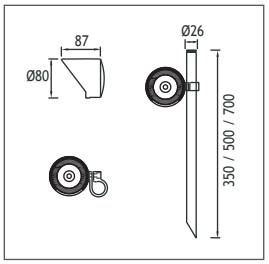
Diffuser : Clear Glass 4 mm
(Frosted Glass on request)

CRI : >80 or >90

Cable : Potted 1m 3x1 H03 VV-F

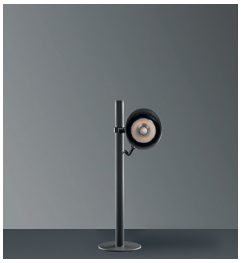
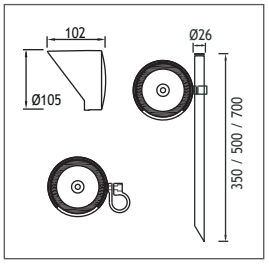
Finish : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

DARA 2

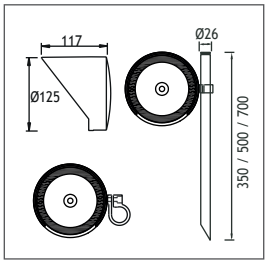
Height	Power	Kelvin	Real Lumen Output	Lens	Code No Single	Code No Twin
350mm	6W	2700 K	570 lm	10°,20°,30°	553003	554003
350mm	6W	3000 K	570 lm	10°,20°,30°	553001	554001
350mm	6W	4000 K	590 lm	10°,20°,30°	553002	554002
500mm	6W	2700 K	570 lm	10°,20°,30°	553103	554103
500mm	6W	3000 K	570 lm	10°,20°,30°	553101	554101
500mm	6W	4000 K	590 lm	10°,20°,30°	553102	554102
700mm	6W	2700 K	570 lm	10°,20°,30°	553203	554203
700mm	6W	3000 K	570 lm	10°,20°,30°	553201	554201
700mm	6W	4000 K	590 lm	10°,20°,30°	553202	554202

DARA 3

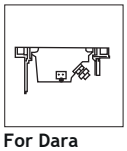



Height	Power	Kelvin	Real Lumen Output	Lens	Code No Single	Code No Twin
350mm	11W	2700 K	1045 lm	10°,20°,30°	555003	556003
350mm	11W	3000 K	1045 lm	10°,20°,30°	555001	556001
350mm	11W	4000 K	1070 lm	10°,20°,30°	555002	556002
500mm	11W	2700 K	1045 lm	10°,20°,30°	555103	556103
500mm	11W	3000 K	1045 lm	10°,20°,30°	555101	556101
500mm	11W	4000 K	1070 lm	10°,20°,30°	555102	556102
700mm	11W	2700 K	1045 lm	10°,20°,30°	555203	556203
700mm	11W	3000 K	1045 lm	10°,20°,30°	555201	556201
700mm	11W	4000 K	1070 lm	10°,20°,30°	555202	556202

DARA 4

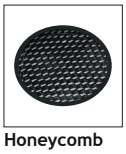
Height	Power	Kelvin	Real Lumen Output	Lens	Code No Single	Code No Twin
350mm	16W	2700 K	1520 lm	10°,20°,30°	557003	558003
350mm	16W	3000 K	1520 lm	10°,20°,30°	557001	558001
350mm	16W	4000 K	1590 lm	10°,20°,30°	557002	558002
500mm	16W	2700 K	1520 lm	10°,20°,30°	557103	558103
500mm	16W	3000 K	1520 lm	10°,20°,30°	557101	558101
500mm	16W	4000 K	1590 lm	10°,20°,30°	557102	558102
700mm	16W	2700 K	1520 lm	10°,20°,30°	557203	558203
700mm	16W	3000 K	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

“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.







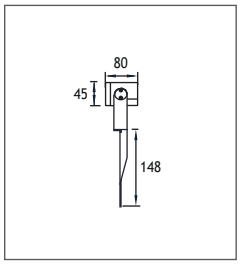
Body
Die cast aluminium
Paint
Electrostatic powder
Gaskets
Silicone
Diffusers
Tempered Glass

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
Finish : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

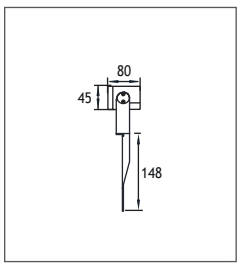
Single color LED options upon request are ;
Blue Amber Green Red





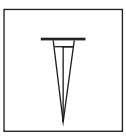
Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	438004
1W LED	3000 K	95 lm	10°,25°,40°	438001
1W LED	4000 K	97 lm	10°,25°,40°	438002
1W LED	6000 K	99 lm	10°,25°,40°	438003
3W LED	2700 K	285 lm	10°,25°,40°	438014
3W LED	3000 K	285 lm	10°,25°,40°	438011
3W LED	4000 K	290 lm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



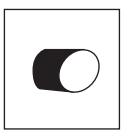


12-24V Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	438024
6W LED	3000 K	570 lm	10°,25°,40°	438021
6W LED	4000 K	580 lm	10°,25°,40°	438022
6W LED	6000 K	592 lm	10°,25°,40°	438023

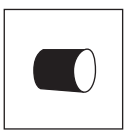
12V - 24V (240V A.C with external driver)



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

The Square Spot series consists of a range of LED, metal halide and fluorescent 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 filled with cast resin and have a pre-potted cable for IP67. The LEDs used come in 4 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 10 to 40 degrees are available to choose from to achieve the desired light effect.



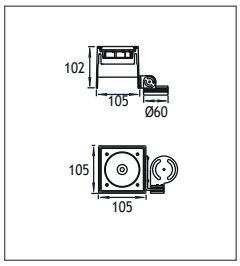
Body
Die cast aluminium
Paint
Electrostatic powder
Gaskets
Silicone
Diffusers
Tempered Glass

Power LED or COB LEDs

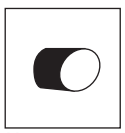
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Clear Glass 4 mm (Frosted Glass on request)
CRI : >80 or >90
Cable : Potted 1m 3x1 H03 VV-F
Finish : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

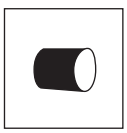
Single color LED options upon request are ;
Blue Amber Green Red





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

The Belkis Spot series consists of a range of LED, metal halide and fluorescent 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 4 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 10 to 40 degrees are available to choose from to achieve the desired 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 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 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 HEAD
Class I IP67 IK10





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)

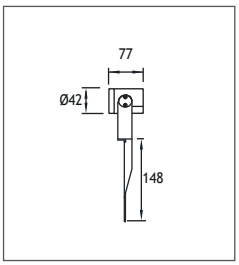
Cable : Potted 2m 3x0,75 H03 VV-F

Finish : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

Single color LED options upon request are ;

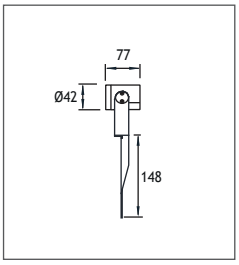
Blue Amber Green Red





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

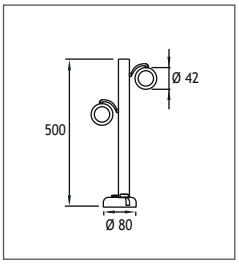




Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	297124
6W LED	3000 K	570 lm	10°,25°,40°	297121
6W LED	4000 K	585 lm	10°,25°,40°	297122
6W LED	6000 K	592 lm	10°,25°,40°	297123

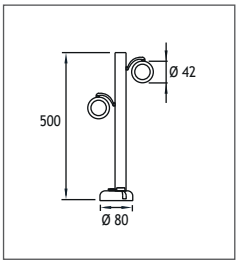
12V - 24V (240V A.C with external driver)





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)

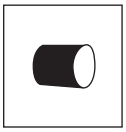
For Belkıs Mini



Picket Code No: 953711



Visor Code No: 953712



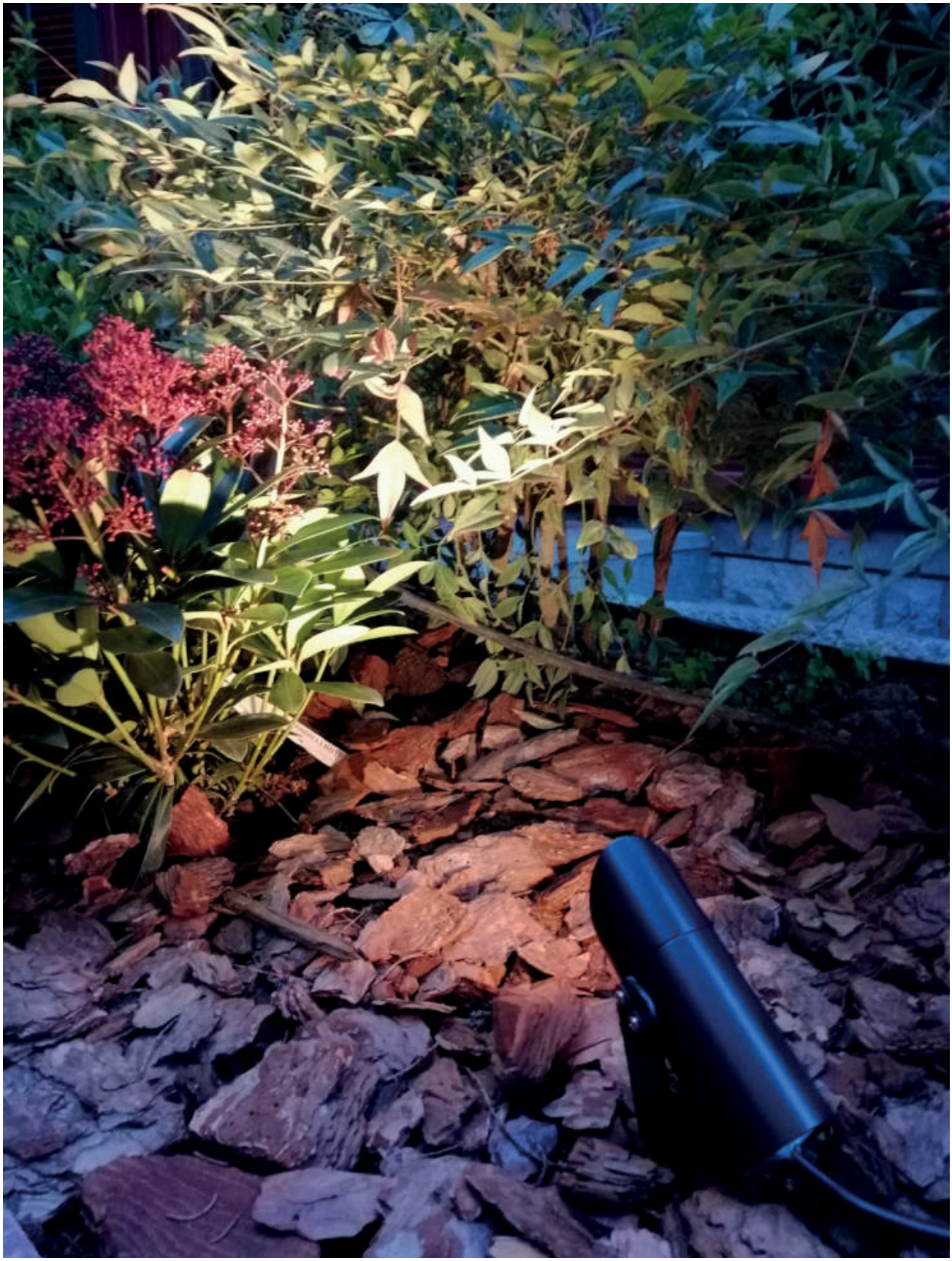
Cylinder Visor Code No: 953713



Honeycomb Code No: 953714



Clamp Code No: 953715



BELKIS 1 LED SPOT
Class I IP67 IK10





POWER LED or COB LED

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

Lens : 10°, 25° or 40°

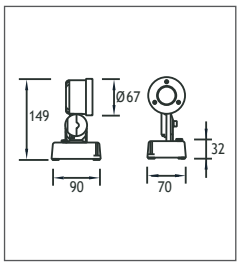
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

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

Finish : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

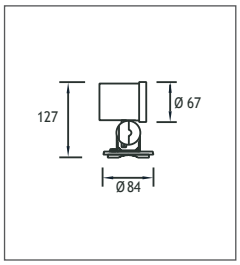
Single color LED options upon request are ;
Blue Amber Green Red





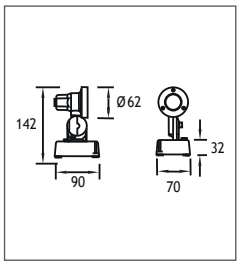
Power	Kelvin	Real Lumen Output	Lens	Code No
1W LED	2700 K	95 lm	10°,25°,40°	330212
1W LED	3000 K	95 lm	10°,25°,40°	330211
1W LED	4000 K	97 lm	10°,25°,40°	330216
1W LED	6000 K	99 lm	10°,25°,40°	330217
3W LED	2700 K	285 lm	10°,25°,40°	330224
3W LED	3000 K	285 lm	10°,25°,40°	330221
3W LED	4000 K	290 lm	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



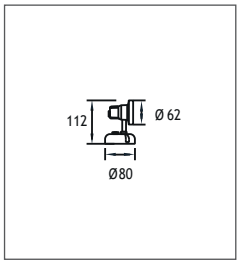


6W COB LED		570 lm	25°,40°	330261

Power	Lampholder	Code No
Led Lamp	Gu4	330121

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





Power	Lampholder	Code No
Led Lamp	Gu4	330101

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

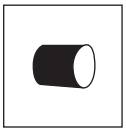
For Belkis 1



Picket
Code No: 953805



Visor
Code No: 953531



Cylinder Visor
Code No: 953581



Honeycomb
Code No: 953521



Clamp
Code No: 953715


GLORIA

BELKIS 2 LED SPOT
Class I IP67 IK10





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)

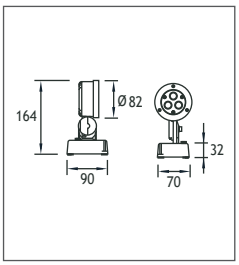
Cable : Potted 2m 3x0,75 H03 VV-F

Finish : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

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

Power LEDs Driver in Base

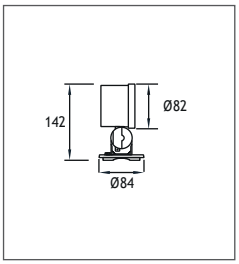




Power	Kelvin	Real Lumen Output	Lens	Code No
3W LED	2700 K	285 lm	10°,25°,40°	331212
3W LED	3000 K	285 lm	10°,25°,40°	331211
3W LED	4000 K	290 lm	10°,25°,40°	331216
3W LED	6000 K	296 lm	10°,25°,40°	331217
9W LED	2700 K	855 lm	10°,25°,40°	331234
9W LED	3000 K	855 lm	10°,25°,40°	331231
9W LED	4000 K	872 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

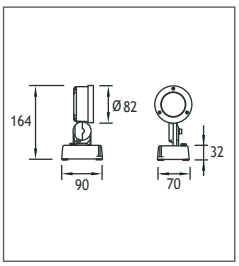




Power	Kelvin	Real Lumen Output	Lens	Code No
3W LED	2700 K	285 lm	10°,25°,40°	331202
3W LED	3000 K	285 lm	10°,25°,40°	331201
3W LED	4000 K	290 lm	10°,25°,40°	331206
3W LED	6000 K	296 lm	10°,25°,40°	331207

COB LED Driver in Base

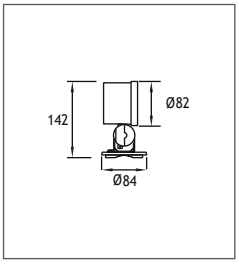




Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,20°,30°	331243
6W LED	3000 K	570 lm	10°,20°,30°	121001
6W LED	4000 K	581 lm	10°,20°,30°	121002
6W LED	6000 K	592 lm	10°,20°,30°	331244
11W LED	2700 K	1045 lm	10°,20°,30°	331253
11W LED	3000 K	1045 lm	10°,20°,30°	121011
11W LED	4000 K	1065 lm	10°,20°,30°	121012
11W LED	6000 K	1087 lm	10°,20°,30°	331254

COB LED Driver in Head





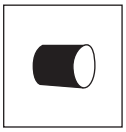
Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,20°,30°	331263
6W LED	3000 K	570 lm	10°,20°,30°	331261
6W LED	4000 K	581 lm	10°,20°,30°	331262
6W LED	6000 K	592 lm	10°,20°,30°	331264



Picket
Code No: 953825



Visor
Code No: 953532



Cylinder Visor
Code No: 953582



Honeycomb
Code No: 953522



Clamp
Code No: 953715

For Belkis 2


GALATAPORT
CONNECT

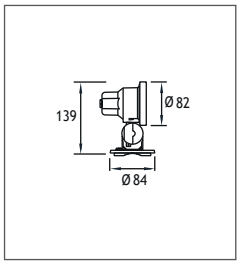
BELKIS 2 SPOTS
Class I IP67 IK10





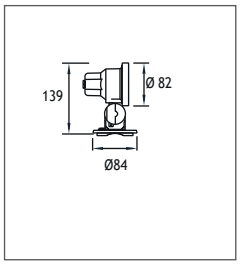
Lampholder : Gu10
Reflector : -
Diffuser : 8 mm Glass
Finish : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014
– other RAL on request

BELKIS 2 WITH SIDE ARM

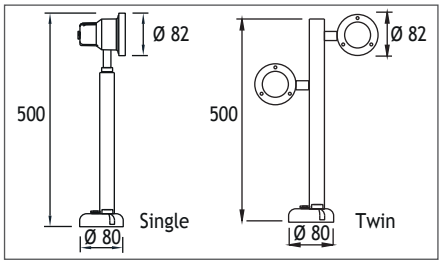
Power	Lampholder	Code No
Led Lamp	Gu 10	331121

BELKIS 2 WITH CENTRAL ARM

Power	Lampholder	Code No
Led Lamp	Gu 10	331141

HIGH SPOT

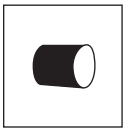



Power	Lampholder	Code No Single	Code No Twin
Led Lamp	Gu 10	331501	331601

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



POWER LED or COB LED

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

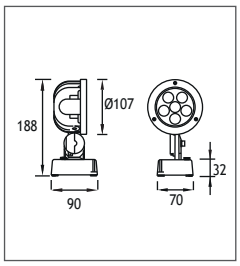
Lens : 10°, 25°, 40° / (Mirror TIR Lens Options)

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

Cable : Potted 5m 3x0,75 H03 VV-F

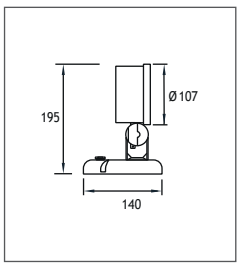
Finish : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request





Power	Kelvin	Real Lumen Output	Lens	Code No
3W LED	2700 K	285 lm	10°,25°,40°	331312
3W LED	3000 K	285 lm	10°,25°,40°	331311
3W LED	4000 K	290 lm	10°,25°,40°	331316
3W LED	6000 K	296 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

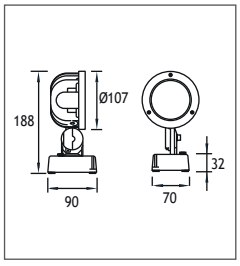




Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°	331302
6W LED	3000 K	570 lm	10°,25°,40°	331301
6W LED	4000 K	581 lm	10°,25°,40°	331306
6W LED	6000 K	592 lm	10°,25°,40°	331307

TIR LENS



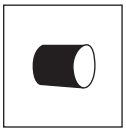


Power	Kelvin	Real Lumen Output	Lens	Code No
12W LED	2700 K	1140 lm	10°,20°,30°	331343
12W LED	3000 K	1140 lm	10°,20°,30°	121101
12W LED	4000 K	1162 lm	10°,20°,30°	121102
18W LED	2700 K	1710 lm	10°,20°,30°	331353
18W LED	3000 K	1710 lm	10°,20°,30°	121111
18W LED	4000 K	1744 lm	10°,20°,30°	121112

For Belkis 3


Picket
Code No: 953805


Visor
Code No: 953531


Cylinder Visor
Code No: 953583


Honeycomb
Code No: 953523


Clamp
Code No: 953715



BELKIS 4 LED SPOT
Class I IP67 IK10



POWER LED or COB LED

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

Lens : 10°, 25°, 40°

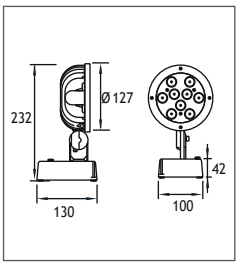
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5m 3x0,75 H03 VV-F

Finish : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

DRIVER IN BASE

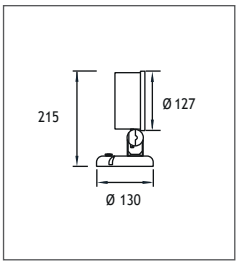




Power	Kelvin	Real Lumen Output	Lens	Code No
9W LED	2700 K	855 lm	10°,25°,40°	331412
9W LED	3000 K	855 lm	10°,25°,40°	331411
9W LED	4000 K	872 lm	10°,25°,40°	331416
9W LED	6000 K	890 lm	10°,25°,40°	331417
27W LED	2700 K	2560 lm	10°,25°,40°	331424
27W LED	3000 K	2560 lm	10°,25°,40°	331421
27W LED	4000 K	2610 lm	10°,25°,40°	331422
27W LED	6000 K	2670 lm	10°,25°,40°	331423

DRIVER IN HEAD



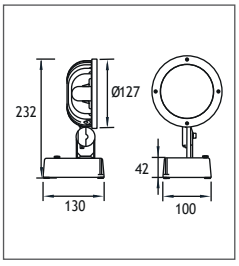


Power	Kelvin	Real Lumen Output	Lens	Code No
9W LED	2700 K	855 lm	10°,25°,40°	331402
9W LED	3000 K	855 lm	10°,25°,40°	331401
9W LED	4000 K	872 lm	10°,25°,40°	331406
9W LED	6000 K	890 lm	10°,25°,40°	331407

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

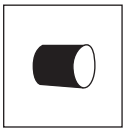
For Belkis 4



Picket
Code No: 953805



Visor
Code No: 953531



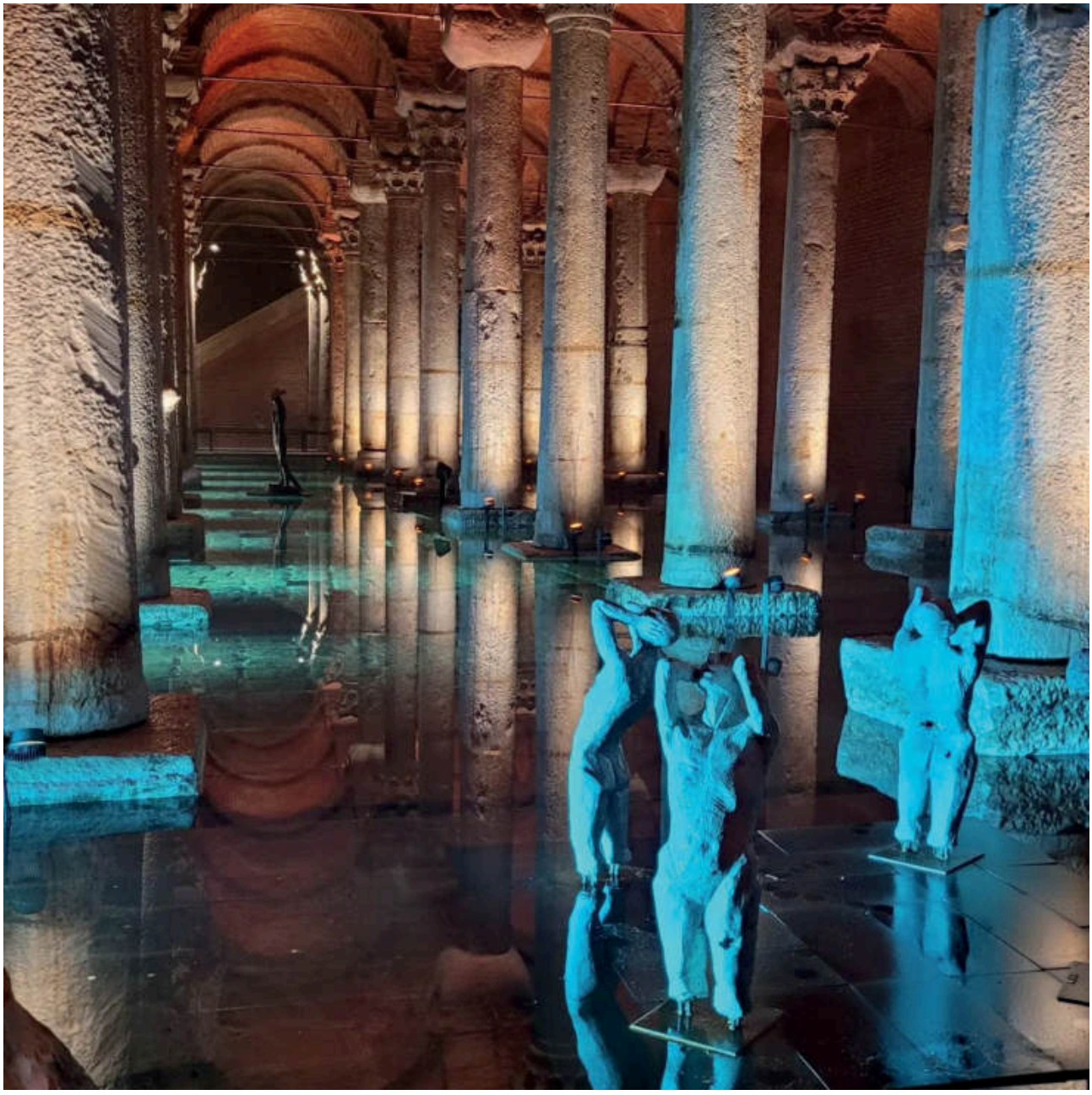
Cylinder Visor
Code No: 953584



Honeycomb
Code No: 953524



Clamp
Code No: 953715



BELKIS 5 LED SPOT
Class I IP67 IK10



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)

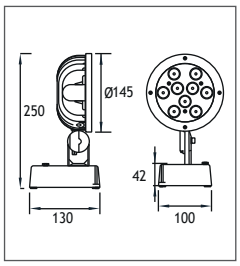
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5m 3x0,75 H03 VV-F

Finish : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

DRIVER IN BASE

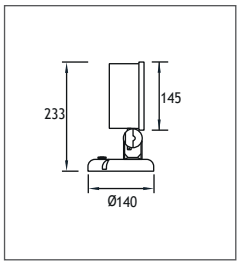




Power	Kelvin	Real Lumen Output	Lens	Code No
9W LED	2700 K	855 lm	10°,25°,40°	425632
9W LED	3000 K	855 lm	10°,25°,40°	425631
9W LED	4500 K	872 lm	10°,25°,40°	425636
9W LED	6000 K	890 lm	10°,25°,40°	425637
27W LED	2700 K	2560 lm	10°,25°,40°	425652
27W LED	3000 K	2560 lm	10°,25°,40°	425651
27W LED	4500 K	2670 lm	10°,25°,40°	425653
27W LED	RGB		10°,25°,40°	425641

DRIVER IN HEAD



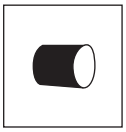


Power	Kelvin	Real Lumen Output	Lens	Code No
9W LED	2700 K	855 lm	10°,25°,40°	425612
9W LED	3000 K	855 lm	10°,25°,40°	425611
9W LED	4500 K	872 lm	10°,25°,40°	425616
9W LED	6000 K	890 lm	10°,25°,40°	425617

For Belkıs 5


Picket
Code No: 953805


Visor
Code No: 953531


Cylinder Visor
Code No: 953585


Honeycomb
Code No: 953525


Clamp
Code No: 953715

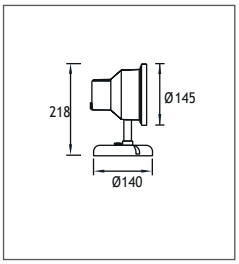
BELKIS 5 SPOT
Class I IP67 IK10



Lampholder : E27
Reflector : -
Diffuser : 8 mm Clear Glass

WITH SIDE ARM

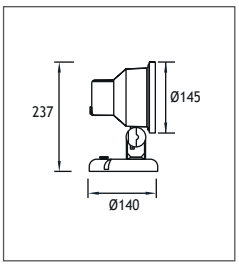




Power	Lampholder	Code No
PAR 30 Led Lamp	E27	332121

WITH CENTRAL ARM



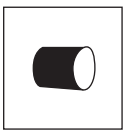


Power	Lampholder	Code No
PAR 30 Led Lamp	E27	332131

For Belkis 5

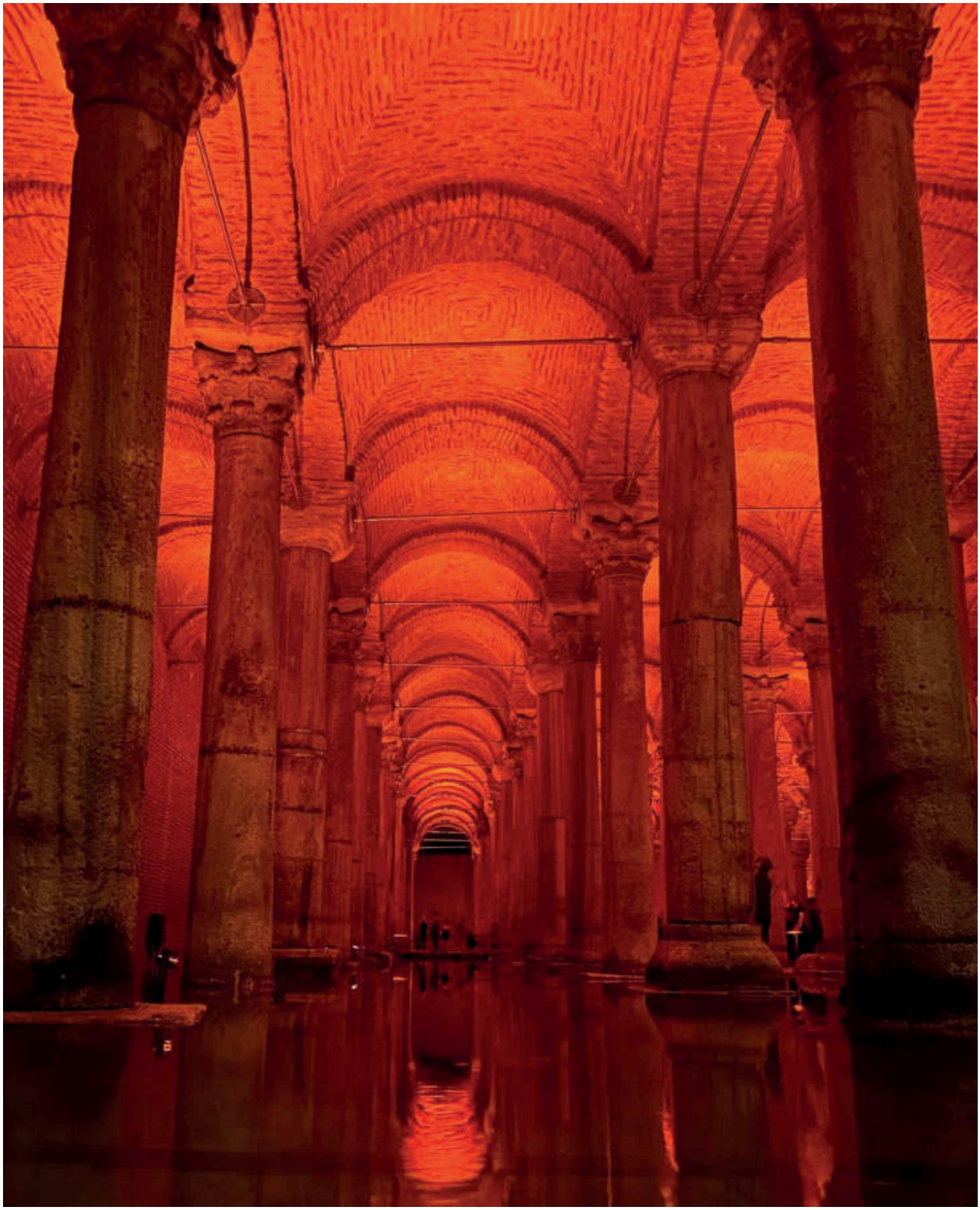

Picket
Code No: 953805


Visor
Code No: 953531


Cylinder Visor
Code No: 953585


Honeycomb
Code No: 953525


Clamp
Code No: 953715



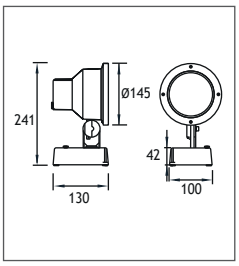
BELKIS 5 SPOTS
Class I IP67 IK10



Lampholder : PGJ 5, G 8.5
Diffuser : Clear Glass 8 mm
Gear : Electronic (in lamp)
Cable : Potted 5m 3x0,75
H03 VV-F
Finish : EMFA Anthracite · RAL 7039 / 7016 / 9005 /
9016 / 6013 / 8014 — other RAL on request

WITH GEARBOX

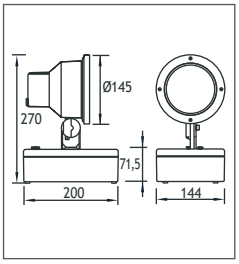




Power	Lampholder	Code No
35W METAL HALIDE	PGJ 5	332201
70W METAL HALIDE	PGJ 5	332211

WITH GEARBOX



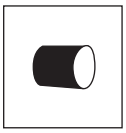


Power	Lampholder	Code No
35W METAL HALIDE	G 8.5	332221
70W METAL HALIDE	G 8.5	332231

For Belkis 5


Picket
Code No: 953805


Visor
Code No: 953531


Cylinder Visor
Code No: 953585


Honeycomb
Code No: 953525


Clamp
Code No: 953715

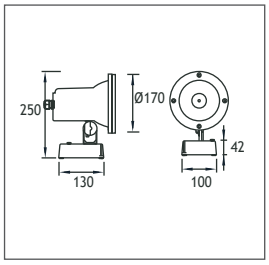

VOLKSWAGEN
ARENA

BELKIS 6 SPOTS WITH GEARBOX
Class I IP67 IK10



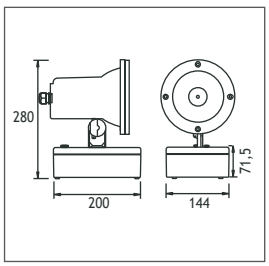
Lampholder : G12
Reflector : 30°,42°
Diffuser : Clear Glass
Gear : Electronic
Finish : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request





Power	Lampholder	Code No
35W METAL HALIDE	G12	138201
70W METAL HALIDE	G12	138211



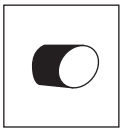


Power	Lampholder	Code No
150W METAL HALIDE	G12	138221

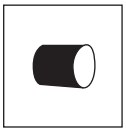
For Belkıs 6



Picket
Code No: 953805



Visor
Code No: 953531



Cylinder Visor
Code No: 953586



Honeycomb
Code No: 953525



Clamp
Code No: 953715

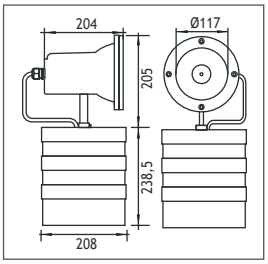
RESPOT 3

SPOT WITH RECESSED GEARBOX
Class I IP67 IK10



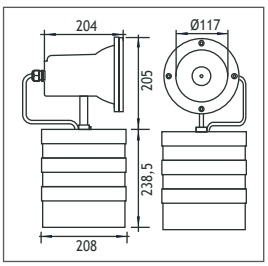
Lampholder : G12, Gx8.5
Reflector : 30°,42°
Diffuser : Clear Glass
Finish : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request



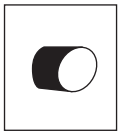


Power	Lampholder	Code No
35W METAL HALIDE	G12	137101
70W METAL HALIDE	G12	137111





Power	Lampholder	Code No
35W METAL HALIDE	Gx8.5	137121
70W METAL HALIDE	Gx8.5	137131



For RESPOT 3
Visor
Code No: 953536

HARRAN LED SPOTS
Class I IP67 IK10

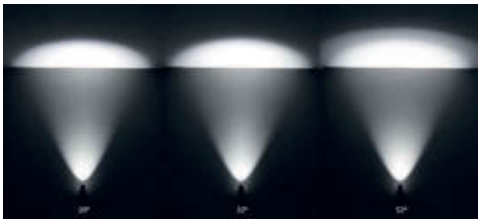
The Harran Spot series has an LED source to deliver the desired light effect to facades, columns, bridges, monuments, signs, and trees. The series is made of die cast aluminium and painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment (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 simple adaptor. Once installed, the special joint system allows for 100° horizontal and 180° vertical adjustment.

The LEDs used come in 4 different tones of white (2700K, 3000K, 4000K, 6000K). Several lenses from 10 to 60 degrees 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 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 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

Finish : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request



COB LED

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

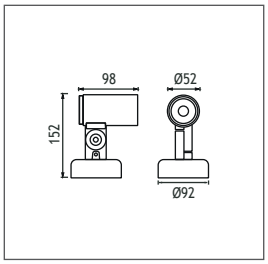
Lens : 10°, 25°, 40° or 60°

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

Cable : Potted 2 m 3x1 H03 VV-F

HARRAN MINI

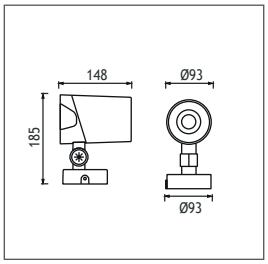




Power	Kelvin	Real Lumen Output	Lens	Code No
6W LED	2700 K	570 lm	10°,25°,40°,60°	155001
6W LED	3000 K	570 lm	10°,25°,40°,60°	155002
6W LED	4500 K	581 lm	10°,25°,40°,60°	155003
6W LED	6000 K	592 lm	10°,25°,40°,60°	155004

HARRAN 2

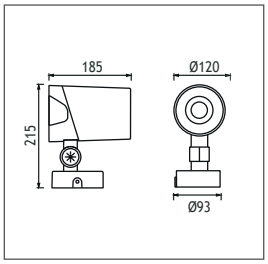




Power	Kelvin	Real Lumen Output	Lens	Code No
18W LED	2700 K	1710 lm	10°,25°,40°,60°	155101
18W LED	3000 K	1710 lm	10°,25°,40°,60°	155102
18W LED	4500 K	1744 lm	10°,25°,40°,60°	155103
18W LED	6000 K	1779 lm	10°,25°,40°,60°	155104

HARRAN 3

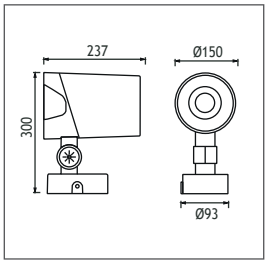




Power	Kelvin	Real Lumen Output	Lens	Code No
36W LED	2700 K	3420 lm	10°,25°,40°,60°	155201
36W LED	3000 K	3420 lm	10°,25°,40°,60°	155202
36W LED	4500 K	3480 lm	10°,25°,40°,60°	155203
36W LED	6000 K	3550 lm	10°,25°,40°,60°	155204

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

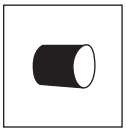
For Harran



Picket
Code No: 953941



Visor
Code No: 953942



Cylinder Visor
Code No: 953943



Honeycomb
Code No: 953944



Clamp
Code No: 953945

EDESSA LED SPOTS
Class I IP67 IK10

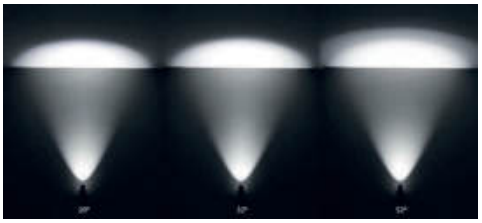
The Edessa Spot series has an LED source to deliver the desired light effect to facades, columns, bridges, monuments, signs, and trees. The series is made of die-cast aluminium and painted with electrostatic powder paint. Six standard RAL colors can be chosen to adapt the spots to their environment (grey, 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.

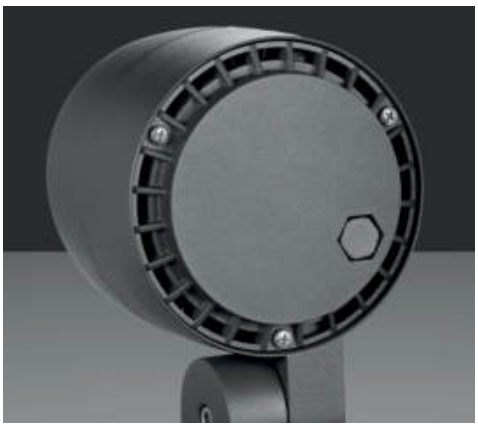
The LEDs used come in four different tones of white (2700K, 3000K, 4000K, 6000K). Several lenses from 10° to 60° are available to choose from to achieve the desired light effect.



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 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 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.

EDESSA LED SPOTS
Class I IP67 IK10



COB LED

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

Lens : 10°, 25°, 40° or 60°

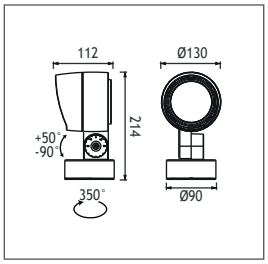
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 2 m 3x1 H03 VV-F

Finish : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

EDESSA 2

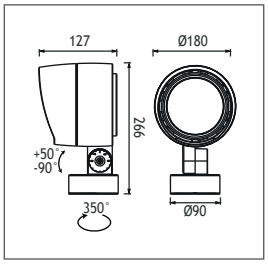




Power	Kelvin	Real Lumen Output	Lens	Code No
18W LED	2700 K	1710 lm	10°,25°,40°,60°	188001
18W LED	3000 K	1710 lm	10°,25°,40°,60°	188002
18W LED	4500 K	1744 lm	10°,25°,40°,60°	188003
18W LED	6000 K	1779 lm	10°,25°,40°,60°	188004

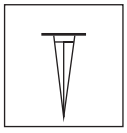
EDESSA 3





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



Honeycomb
Code No: 953954



Clamp
Code No: 953955