

BEYOND
LIGHTING FACTORY

OUTDOOR
CATALOGUE





ESTABLISHED IN QATAR in 2011

Established in Qatar in 2011, Beyond Lighting embarked on a journey to enhance the experience of lighting. In 2020, we evolved from a trusted solution provider to a manufacturer with global aspirations, specializing in innovative and sustainable lighting solutions.

We believe that lighting has the power to create immersive environments, enhance well-being, and contribute to a sustainable future for all. Driven by this belief, our company has gained a reputation for delivering top-quality products and engineering services in the lighting domain, by utilizing the best components, cutting-edge technologies, and the highest grades of materials.



BEYOND LIGHTING FACTORY



By promoting ourselves as a manufacturer that harnesses the power of the finest components, groundbreaking technologies, and creative solutions, we aim to revolutionize the lighting industry and cast a positive impact across the world. Our rich history and achievements serve as the foundation upon which we continue to build, as we strive to meet and exceed the needs and expectations of clients worldwide.



As part of our development plan, we have been inspired after 10 years of experience and know-how in the lighting and solar lighting industry to start our own factory , Beyond Lighting Factory, a 3500 square meter premises in industrial area, zone 81 street 11.



The company has always ensured the highest quality standards while paying close attention to technological advancement and the idea of environmental sustainability.



From design to production & distribution,

Beyond Lighting monitors the product development process at every stage. The high-tech machines and sophisticated automation techniques are a component of an ambitious project that BL can be proud of.



Fully automated work phases that require the least amount of human participation, include high-tech laser cutting equipment, rolling machines, bending machines, metal rolling and cutting machines, and all forms of laboratory testing.



INSPIRED BY QATAR

DEVELOPMENT

PROSPERITY

PROGRESS



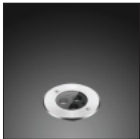
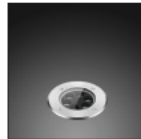

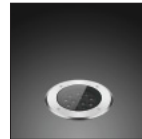
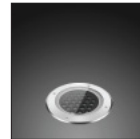
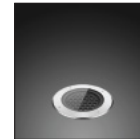
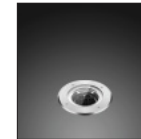






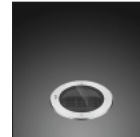

With a strong foundation in the Qatari market, Beyond Lighting has illuminated more than 150 projects in Qatar and the Middle East, including projects for the FIFA World Cup held in Qatar. We provided lighting solutions that met the highest world standards for prestigious undertakings such as Al Bayt Stadium, Ahmed Bin Ali Stadium, and Doha Port, which achieved the highest grades of GSAS (Global Sustainability Assessment System) certification. Our expertise in delivering top-quality, sustainable lighting for such high-profile projects further showcases our capabilities to deliver to world-class standards.




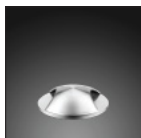



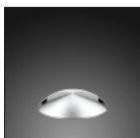


PRODUCT OVERVIEW

IN-GROUND UPLIGHTS

| | | | | | | | | |
|--|---|---|---|---|---|--|---|---|
|  |  |  |  |  |  |  |  |  |
| SIDRA MINI 1 | SIDRA MINI 2 | SIDRA FIXED 1 | SIDRA FIXED 2 | SIDRA FIXED 3 | SIDRA FIXED 4 | SIDRA FIXED 5 | SIDRA FIXED 6 | SIDRA TILTABLE 1 |
|  |  |  |  |  |  |  |  | |
| SIDRA TILTABLE 2 | SIDRA TILTABLE 3 | SIDRA ADJUSTABLE 1 | SIDRA ADJUSTABLE 2 | SIDRA ADJUSTABLE 3 | SIDRA ADJUSTABLE 4 | SIDRA ADJUSTABLE 5 | SIDRA ADJUSTABLE 6 | |

IN-GROUND MARKERS

| | | | | | |
|---|--|--|--|--|--|
|  |  |  |  |  |  |
| QATAF 1 | QATAF 2 | QATAF 3 | QATAF 4 | QATAF 5 | QATAF 6 |

SPOTLIGHTS

| | | | | | | | | |
|--|---|---|---|---|---|--|---|---|
|  |  |  |  |  |  |  |  |  |
| ZEKREET SCREWLESS 1 | ZEKREET SCREWLESS 2 | ZEKREET SCREWLESS 3 | ZEKREET 1 | ZEKREET 2 | ZEKREET 3 | ZEKREET 4 | VIVID 1 | VIVID 2 |
|  |  |  |  |  | | | | |
| VIVID 3 | BOLD 1 | BOLD 2 | BOLD 3 | BOLD 4 | | | | |

STREET LIGHTING

| | | | | | | |
|--|---|---|---|---|---|--|
|  |  |  |  |  |  |  |
| SAQR MINI | SAQR MIDl | SAQR MAXI | SAQR 2 MINI | SAQR 2 MIDl | SAQR 2 MAXI | SAQR 2 MEGA |

AREA & SPORTS LIGHTING



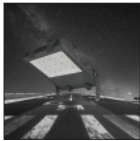
PHOTON MINI



PHOTON MIDI



PHOTON MAXI



THAQAB



REY

WALL LIGHTS

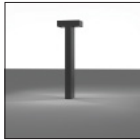


MAHA
SURFACE

BOLLARDS



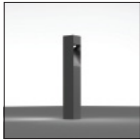
BEND B



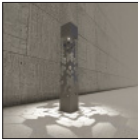
BEND B(DUAL)



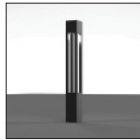
EDGE OPEN B



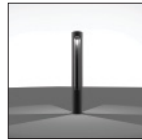
EDGE CLOSED



PATTERN B



QUADRANT B



ORBIT



SWEEP



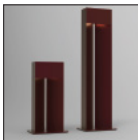
EQUILIBRIUM



GLOBO



SIGNAL



PRISM



PINNACLE



CAPORA



VALORA

SOLAR LIGHTING



SWEEP SOLAR
BOLLARD



ECO SLIM
BOLLARD

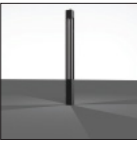



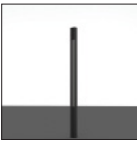




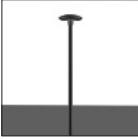


DHOW SOLAR
SMART POLE

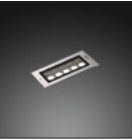


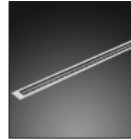


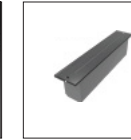
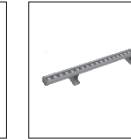
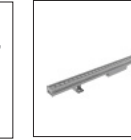


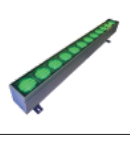


SPECTRUM
SOLAR POLE

POLES

| | | | | | | | |
|--|---|---|---|---|--|---|---|
|  |  |  |  |  |  |  |  |
| QUADRANT P | EDGE OPEN P | PATTERN P | ZEKREET MULTI P | QUADRANT SLIM P | LUNA RING | BELL | TORCH |
|  |  | | | | | | |
| FLAME | HALO | | | | | | |

LINEAR RECESSED/SURFACE

| | | | | | | | | |
|--|---|---|---|---|---|--|---|---|
|  |  |  |  |  |  |  |  |  |
| KOOT ADJUSTABLE 1 | KOOT ADJUSTABLE 2 | KOOT ADJUSTABLE 3 | KOOT ADJUSTABLE 4 | KOOT ADJUSTABLE 5 | KOOT ADJUSTABLE 6 | KOOT BLADE | KOOT GRAZER 1 | KOOT GRAZER 2 |
|  |  |  | | | | | | |
| KOOT GLOW | KOOT GRAZER ROUND | KOOT PRO | | | | | | |

HANDRAIL

| | | |
|--|---|---|
|  |  |  |
| GLOW RAIL LINEAR (SQ) 2 | GLOW RAIL LINEAR (R) 2 | GLOW RAIL DOT 4 |

SIDRA SERIES

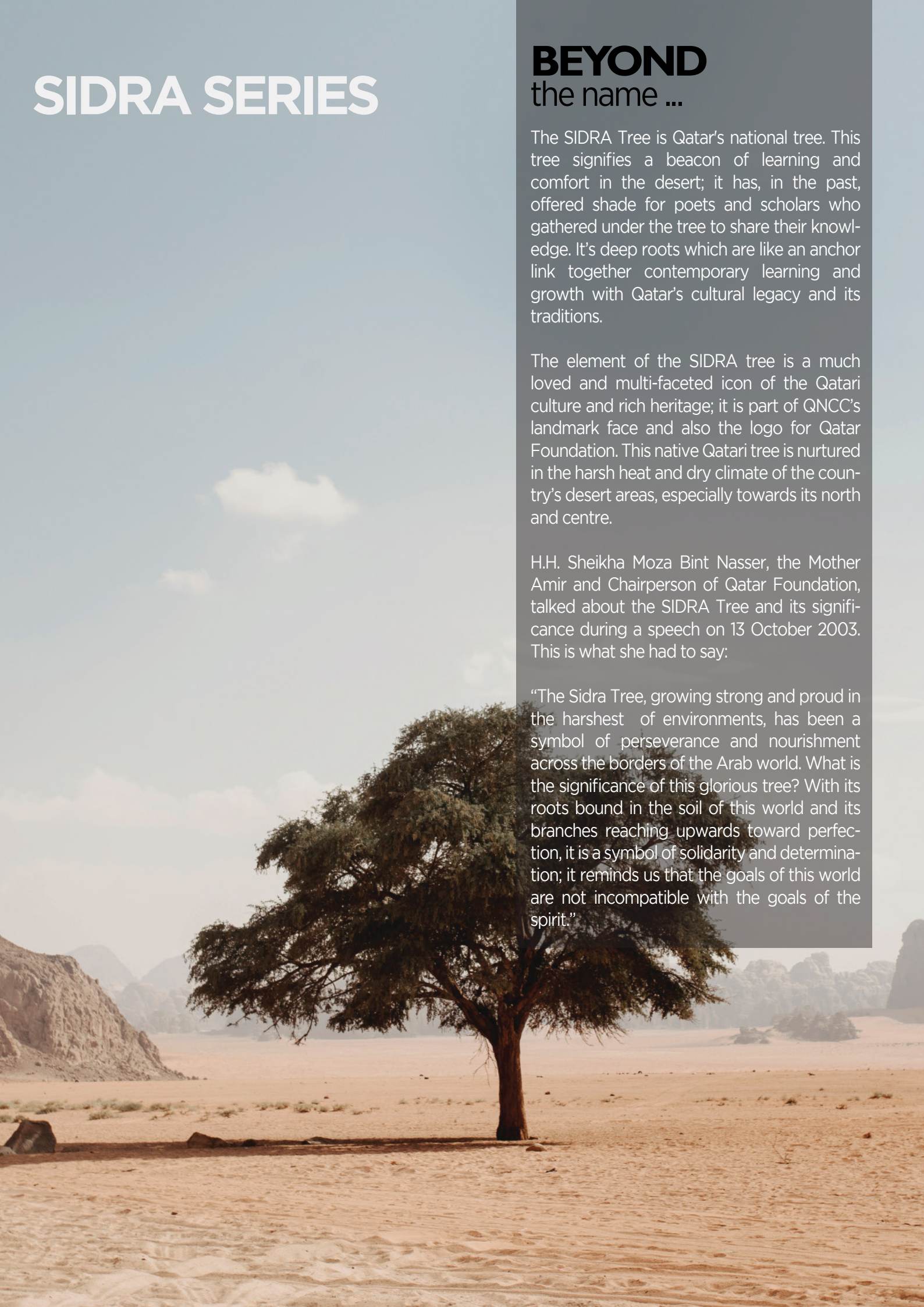
BEYOND the name ...

The SIDRA Tree is Qatar's national tree. This tree signifies a beacon of learning and comfort in the desert; it has, in the past, offered shade for poets and scholars who gathered under the tree to share their knowledge. Its deep roots which are like an anchor link together contemporary learning and growth with Qatar's cultural legacy and its traditions.

The element of the SIDRA tree is a much loved and multi-faceted icon of the Qatari culture and rich heritage; it is part of QNCC's landmark face and also the logo for Qatar Foundation. This native Qatari tree is nurtured in the harsh heat and dry climate of the country's desert areas, especially towards its north and centre.

H.H. Sheikha Moza Bint Nasser, the Mother Amir and Chairperson of Qatar Foundation, talked about the SIDRA Tree and its significance during a speech on 13 October 2003. This is what she had to say:

"The Sidra Tree, growing strong and proud in the harshest of environments, has been a symbol of perseverance and nourishment across the borders of the Arab world. What is the significance of this glorious tree? With its roots bound in the soil of this world and its branches reaching upwards toward perfection, it is a symbol of solidarity and determination; it reminds us that the goals of this world are not incompatible with the goals of the spirit."



SIDRA SERIES

SERIES 1 MINI UPLIGHTS



SIDRA MINI 1
Uplight 0.5W



SIDRA MINI 2
Uplight 1.5W

SERIES 2 FIXED UPLIGHTS



SIDRA FIXED 1
3.5W-6W



SIDRA FIXED 2
7W-11W



SIDRA FIXED 3
16W



SIDRA FIXED 4
14W-22W



SIDRA FIXED 5
30W-40W



SIDRA FIXED 6
56W-72W

SERIES 3 TILTABLE UPLIGHTS



SIDRA TILTABLE 1
16W



SIDRA TILTABLE 2
14/32W



SIDRA TILTABLE 3
42/60W

SIDRA SERIES

SERIES 4
ADJUSTABLE UPLIGHTS



SIDRA ADJUSTABLE 1
10W



SIDRA ADJUSTABLE 2
10W



SIDRA ADJUSTABLE 3
20W



SIDRA ADJUSTABLE 4
30W



SIDRA ADJUSTABLE 5
50W



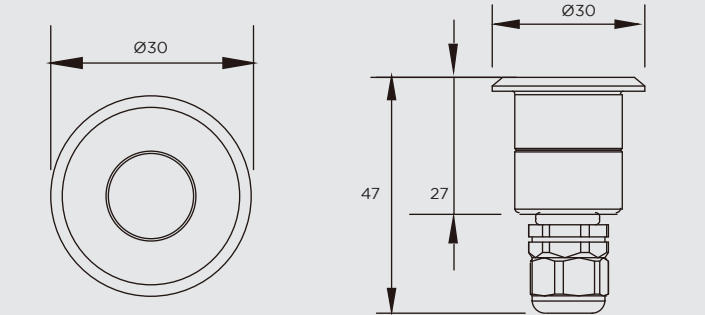
SIDRA ADJUSTABLE 6
90W



SIDRA MINI 1



SIDRA MINI series recessed lighting fixtures is characterized by a small dimension. Available in various sizes, they are designed as walkway and step light with diffused light. The body and diffuser closure ring are made of Aluminum silicone gaskets to ensure maximum sealing in all operating and temperature conditions. The external finishing frame is in stainless steel.



ORDERING CODE

SERIES NAME - CCT - CONTROL
SIDRA MINI I 27 2700K 1 ON-OFF
 30 3000K 2 1-10V
 40 4000K 3 DALI
 60 6000K

IP67

IK10

24Vdc

5 YRS
Warranty

0.5
WATTS

Upon request

1-10V

DALI

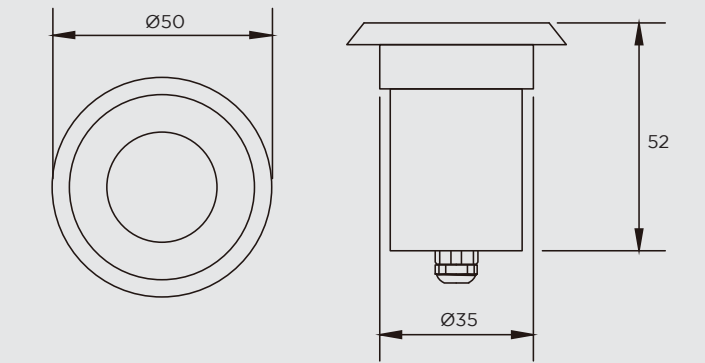
| | |
|-------------------|----------------------------|
| PHYSICAL | |
| Body | Stainless Steel |
| Frame | Stainless Steel |
| Finish | Stainless Steel |
| Dimensions | Ø30xH47mm |
| OPTICAL | |
| Diffuser | Frosted tempered glass |
| Light Emission | Symmetrical |
| Aiming | Fixed |
| Beam Angle | 120° |
| ELECTRICAL | |
| Light source | LED 1 pcs CREE |
| Lumen | 15lm |
| CCT | 2700K, 3000K, 4000K, 6000K |
| CRI | >80 |
| Driver | 24Vdc |
| Ambient Temp. | -25°C - 50°C |
| Ambient Humidity | 10% - 90% |



SIDRA MINI 2



SIDRA MINI series recessed lighting fixtures is characterized by a small dimension. Available in various sizes, they are designed as walkway and step light with diffused light. The body and diffuser closure ring are made of Aluminum silicone gaskets to ensure maximum sealing in all operating and temperature conditions. The external finishing frame is in stainless steel.



ORDERING CODE

| SERIES NAME | - | CCT | - | OPTICS | - | CONTROL |
|--------------|----|-------|------|--------|---|---------|
| SIDRA MINI 2 | 27 | 2700K | 12.5 | 12.5° | 1 | ON-OFF |
| | 30 | 3000K | 20 | 20° | 2 | 1-10V |
| | 40 | 4000K | 30 | 30° | 3 | DALI |
| | 65 | 6500K | 45 | 45° | 4 | DMX512 |
| | | RGB | 120 | 120° | | |

IP67

IK10

24Vdc

5 YRS
Warranty

15
WATTS

Upon request

1-10V

DMX

MONO
COLOR

RGB

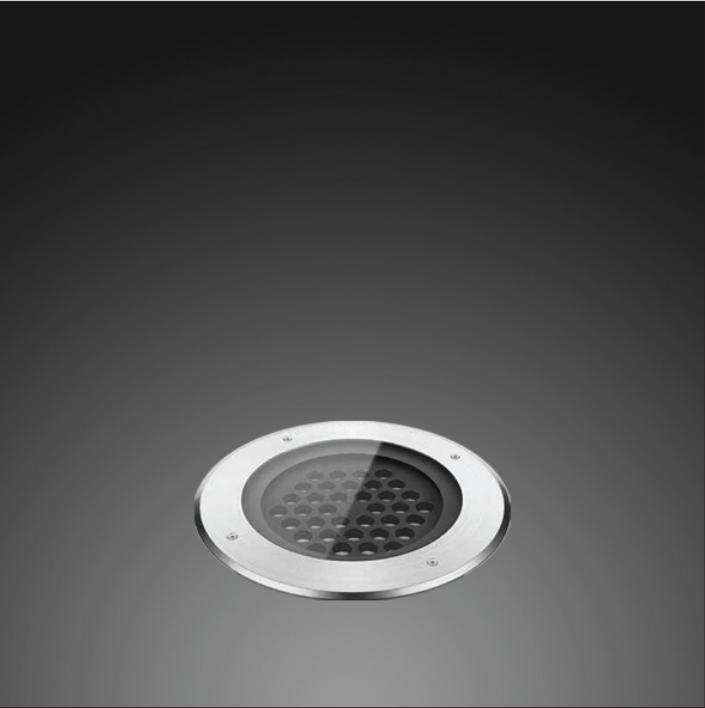
| PHYSICAL | |
|------------------|---|
| Body | Stainless Steel 316L |
| Frame | Stainless Steel 316L |
| Finish | Stainless Steel 316L |
| Sleeve | Polycarbonate |
| Dimensions | Ø50xH52mm |
| OPTICAL | |
| Diffuser | Tempered clear glass/Tempered frosted glass |
| Light Emission | Symmetrical |
| Aiming | Fixed |
| Beam Angle | 12.5°, 20°, 30°, 45°(clear)/120° (frosted) |
| ELECTRICAL | |
| Light source | LED 1pcs CREE |
| Lumen | 98lm |
| CCT | 3000K - 4000K |
| Driver | 24Vdc |
| Ambient Temp. | -25°C - 50°C |
| Ambient Humidity | 10% - 90% |





This image is for application purposes only.

SIDRA FIXED SERIES



IP67

IK10

220-240V

5 YRS
Warranty

35 - 72
WATTS

Upon request

DALI

| | |
|-------------------|--|
| PHYSICAL | |
| Body | Anodized die-cast Aluminum |
| Frame | Stainless Steel 316L |
| Recessing tube | Aluminum Alloy |
| OPTICAL | |
| Diffuser | Tempered Glass |
| Light Emission | Symmetrical |
| Aiming | Fixed |
| CRI | >80 |
| ELECTRICAL | |
| CCT | 3000K - 4000K - 5000K |
| Driver | Integrated LED driver 220-240V 50/60Hz |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% - 90% |

SIDRA FIXED series is specially designed to deliver low-glare lighting, thanks to the round meshed grill, to façades, columns, monuments and trees with minimal installation depth. The fixture is made of a combination of 316L stainless steel and die-cast Aluminum. It has an optical PMMA secondary light distribution technology, viewing angle, light-gathering effects that can be adjusted by various lens according to demands and could be supplied with an optional honeycomb louvre and/or anti-slip glass.

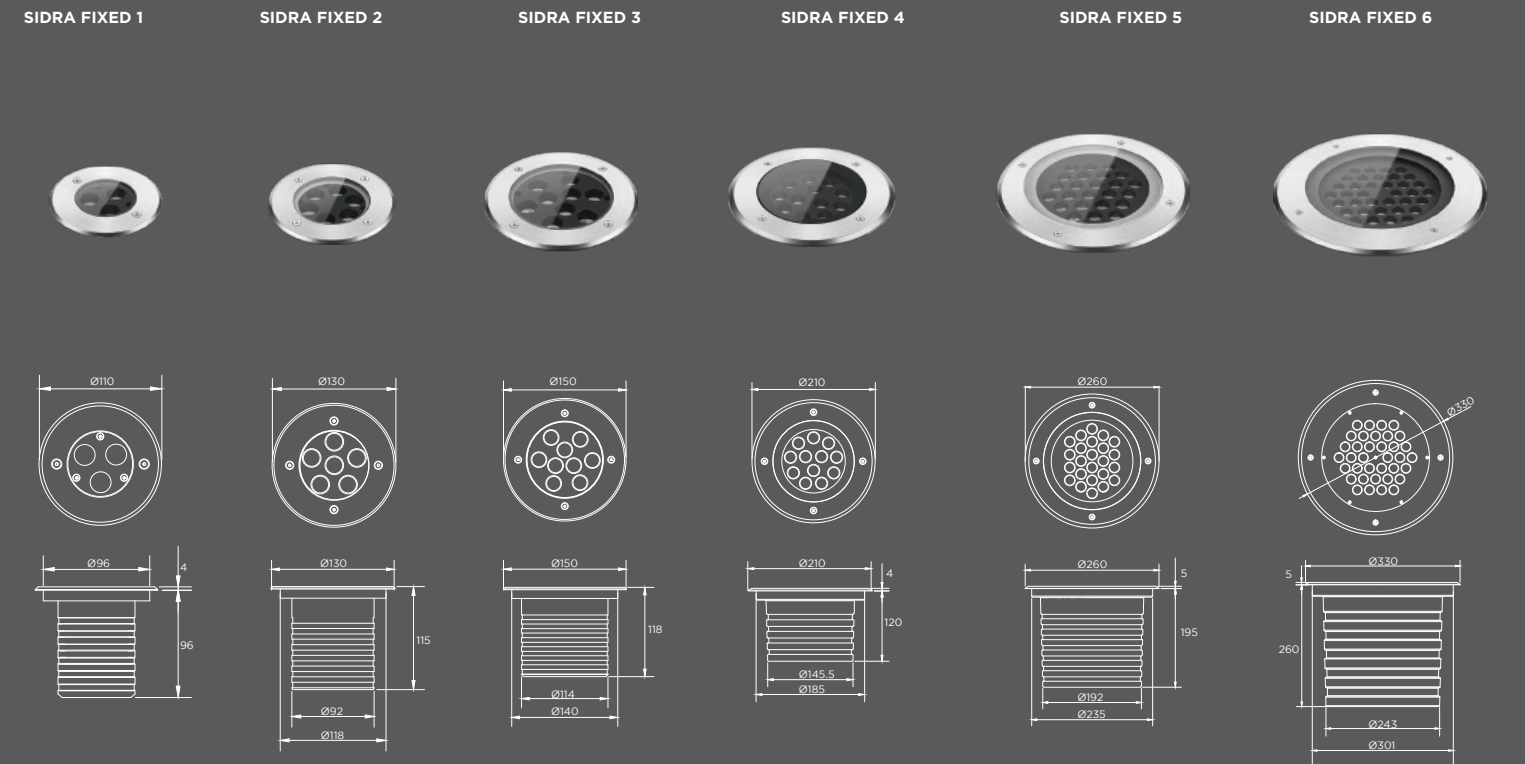
ACCESSORIES

Honeycomb Grill

Anti-Slip Glass

Round-Meshed Grill





| PRODUCT RANGE | | | | | |
|-----------------|----------------|-----------|----------------|-------------------|--|
| | Rated Power(W) | Lumen(lm) | Dimensions(mm) | LED Quantity(pcs) | Beam angle |
| SIDRA FIXED 1.1 | 3.5W | 227.5lm | Ø110xH100 | 3 pcs | 8°,12.5°,20°,30°,45°,60° |
| SIDRA FIXED 1.2 | 6W | 390lm | Ø110xH100 | 3 pcs | 8°,12.5°,20°,30°,45°,60° |
| SIDRA FIXED 2.1 | 7W | 455lm | Ø130xH115 | 6 pcs | 8°,12.5°,20°,30°,45°,60° |
| SIDRA FIXED 2.2 | 12W | 715lm | Ø130xH115 | 6 pcs | 8°,12.5°,20°,30°,45°,60° |
| SIDRA FIXED 3.1 | 16W | 1040lm | Ø150xH118 | 9 pcs | 8°,12.5°,20°,30°,45°,60° |
| SIDRA FIXED 4.1 | 14W | 910lm | Ø210xH124 | 12 pcs | 8°,12.5°,20°,30°,45°,60°,15x30°,10x60° |
| SIDRA FIXED 4.2 | 22W | 1430lm | Ø210xH124 | 12 pcs | 8°,12.5°,20°,30°,45°,60°,15x30°,10x60° |
| SIDRA FIXED 5.1 | 30W | 1950lm | Ø260xH200 | 18 pcs | 8°,12.5°,20°,30°,45°,60°,15x30°,10x60° |
| SIDRA FIXED 5.2 | 40W | 2600lm | Ø260xH200 | 24 pcs | 8°,12.5°,20°,30°,45°,60°,15x30°,10x60° |
| SIDRA FIXED 6.1 | 56W | 3640lm | Ø330xH260 | 36 pcs | 8°,12.5°,20°,30°,45°,60°,15x30°,10x60° |
| SIDRA FIXED 6.2 | 72W | 4680lm | Ø330xH260 | 36 pcs | 8°,12.5°,20°,30°,45°,60°,15x30°,10x60° |

ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL - ACCESSPROES

| | | | | | |
|-------------|-----|----------|-------------|----------|-----------------------|
| SIDRA FIXED | 1.1 | 30 3000K | Refer to | 1 ON-OFF | HG Honeycomb grill |
| | 1.2 | 40 4000K | above table | 2 1-10V | AS Anti slip glass |
| | 2.1 | 50 5000K | | 3 DALI | RM Round meshed grill |
| | 2.2 | | | | |
| | 3.1 | | | | |
| | 4.1 | | | | |
| | 4.2 | | | | |
| | 5.1 | | | | |
| | 5.2 | | | | |
| | 6.1 | | | | |
| | 6.2 | | | | |



SIDRA TILTABLE SERIES



IP67

IK10

220-240V

5 YRS
Warranty

14 - 60
WATTS

Upon request

1-10V

PHYSICAL

| | |
|----------------|----------------------------|
| Body | Anodized die-cast Aluminum |
| Frame | Stainless Steel 316L |
| Recessing tube | Aluminum Alloy |

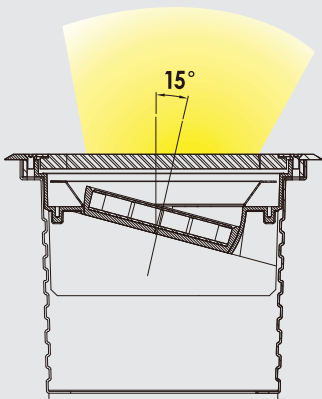
OPTICAL

| | |
|----------------|----------------|
| Diffuser | Tempered Glass |
| Light Emission | Symmetrical |
| Aiming | Fixed |
| CRI | >80 |

ELECTRICAL

| | |
|------------------|--|
| CCT | 3000K - 4000K - 5000K |
| Driver | Integrated LED driver 220-240V 50/60Hz |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% - 90% |

SIDRA TILTABLE series is specially designed to deliver low-glare lighting, thanks to the round meshed grill, to façades, columns, monuments and trees with minimal installation depth. The fixture is made of a combination of 316L stainless steel and die-cast Aluminum. It has an optical PMMA secondary light distribution technology, viewing angle, light-gathering effects that can be adjusted by various lens according to demands and could be supplied with an optional honeycomb louvre and/or anti-slip glass.



ACCESSORIES

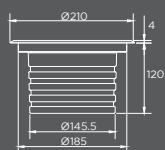
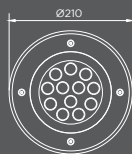
Honeycomb Grill

Anti-Slip Glass

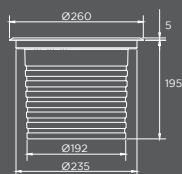
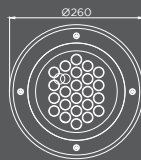
Round-Meshed Grill



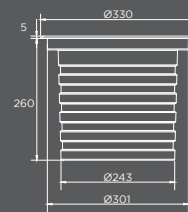
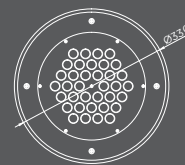
SIDRA TILTABLE 1



SIDRA TILTABLE 2.1-2.2



SIDRA TILTABLE 3.1-3.2



PRODUCT RANGE

| | Rated Power(W) | Lumen(lm) at 20° | Dimensions(mm) | LED Quantity(pcs) | Beam angle |
|--------------------|----------------|---------------------|----------------|-------------------|--|
| SIDRA TILTABLE 1 | 16W | 1120lm | Ø210xH164 | 6 pcs | 8°,12.5°,20°,30°,45°,60°,15x30°,10x60° |
| SIDRA TILTABLE 2.1 | 14W | 980lm | Ø260xH196 | 12 pcs | 8°,12.5°,20°,30°,45°,60°,15x30°,10x60° |
| SIDRA TILTABLE 2.2 | 32W | 2240lm | Ø260xH196 | 12 pcs | 8°,12.5°,20°,30°,45°,60°,15x30°,10x60° |
| SIDRA TILTABLE 3.1 | 42W | 2940lm | Ø330xH265 | 12 pcs | 6°,8°,12°,20°,30°,60°,10x70° |
| SIDRA TILTABLE 3.2 | 60W | 4200lm | Ø330xH265 | 12 pcs | 6°,8°,12°,20°,30°,60°,10x70° |

ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL - ACCESSPROES

| | | | | | |
|----------------|-----|----------|-------------|----------|-----------------------|
| SIDRA TILTABLE | 1 | 30 3000K | Refer to | 1 ON-OFF | HG Honeycomb grill |
| | 2.1 | 40 4000K | above table | 2 1-10V | AS Anti slip glass |
| | 2.2 | 50 5000K | | 3 DALI | RM Round meshed grill |
| | 3.1 | | | | |
| | 3.2 | | | | |



SIDRA ADJUSTABLE SERIES



SIDRA ADJUSTABLE series is specially designed to deliver low-glare lighting, thanks to the round meshed grill, to façades, columns, monuments and trees with minimal installation depth. The fixture is made of a combination of 316L stainless steel and die-cast Aluminum. It has an optical PMMA secondary light distribution technology, viewing angle, light-gathering effects that can be adjusted by various lens according to demands and could be supplied with an optional honeycomb louvre and/or anti-slip glass.

This unique design can be adjusted easily from the outside without the need to open it, using an Allen key.

IP67

IK10

220-240V

5 YRS
Warranty

6-90
WATTS

Upon request

1-10V

DALI

RGB

DMX

PHYSICAL

| | |
|----------------|----------------------------|
| Body | Anodized die-cast Aluminum |
| Frame | Stainless Steel 316L |
| Recessing tube | Aluminum Alloy |

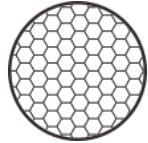
OPTICAL

| | |
|----------|-----------------------|
| Diffuser | Tempered Glass |
| Aiming | Adjustable -5° ~ +15° |
| CRI | >80 |

ELECTRICAL

| | |
|------------------|--|
| CCT | 3000K - 4000K - 5000K |
| Driver | Integrated LED driver 220-240V 50/60Hz |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% - 90% |

ACCESSORIES

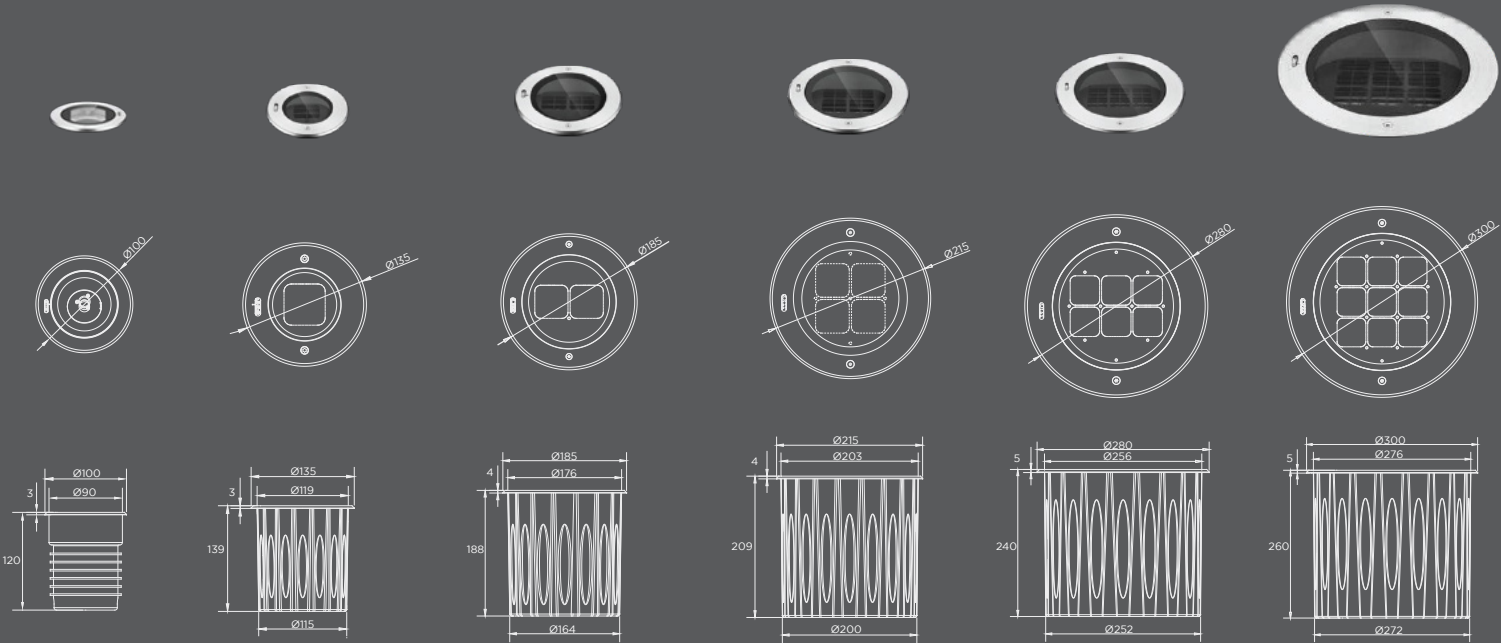


Honeycomb Grill



Anti-Slip Glass





PRODUCT RANGE

| | Rated Power(W) | Lumen(lm) | Dimensions(mm) | LED Quantity(pcs) | CCT(K) | Beam angle |
|----------------------|----------------|-----------|----------------|-------------------|--------|--|
| SIDRA ADJUSTABLE 1.1 | 6W | 300lm | Ø100xH120 | 1 pcs | Single | 2.5° |
| SIDRA ADJUSTABLE 1.2 | 6W | 300lm | Ø100xH120 | 1 pcs | Single | 8°,12°,20°,30°,45°,60°,10x70°,5x20° |
| SIDRA ADJUSTABLE 1.3 | 10W | 500lm | Ø100xH120 | 1 pcs | RGBW | 9°,15°,20°,30°,45°,15x60° |
| SIDRA ADJUSTABLE 2.1 | 10W | 500lm | Ø135xH139 | 1 pcs | Single | 2° |
| SIDRA ADJUSTABLE 2.2 | 10W | 500lm | Ø135xH139 | 1 pcs | Single | 4.5°,8°,12°,20°,30°,45°,60°,10x70°,5x20° |
| SIDRA ADJUSTABLE 2.3 | 10W | 500lm | Ø135xH139 | 1 pcs | RGBW | 6°,8°,15°,20°,30°,15x60° |
| SIDRA ADJUSTABLE 3.1 | 20W | 1000lm | Ø185xH188 | 2 pcs | Single | 4.5°,8°,12°,20°,30°,45°,60°,10x70°,5x20° |
| SIDRA ADJUSTABLE 3.2 | 20W | 1000lm | Ø185xH188 | 2 pcs | RGBW | 6°,8°,15°,20°,30°,15x60° |
| SIDRA ADJUSTABLE 4.1 | 30W | 1500lm | Ø215xH209 | 4 pcs | Single | 2° |
| SIDRA ADJUSTABLE 4.2 | 30W | 1500lm | Ø215xH209 | 4 pcs | Single | 4.5°,8°,12°,20°,30°,45°,60°,10x70°,5x20° |
| SIDRA ADJUSTABLE 4.3 | 40W | 2000lm | Ø215xH209 | 4 pcs | RGBW | 6°,8°,15°,20°,30°,15x60° |
| SIDRA ADJUSTABLE 5.1 | 40W | 2000lm | Ø280xH240 | 6 pcs | Single | 2° |
| SIDRA ADJUSTABLE 5.2 | 50W | 2500lm | Ø280xH240 | 6 pcs | Single | 4.5°,8°,12°,20°,30°,45°,60°,10x70°,5x20° |
| SIDRA ADJUSTABLE 5.3 | 60W | 3000lm | Ø280xH240 | 6 pcs | RGBW | 6°,8°,15°,20°,30°,15x60° |
| SIDRA ADJUSTABLE 6.1 | 70W | 3500lm | Ø300xH260 | 9 pcs | Single | 2° |
| SIDRA ADJUSTABLE 6.2 | 80W | 4000lm | Ø300xH260 | 9 pcs | Single | 4.5°,8°,12°,20°,30°,45°,60°,10x70°,5x20° |
| SIDRA ADJUSTABLE 6.3 | 90W | 4500lm | Ø300xH260 | 9 pcs | RGBW | 6°,8°,15°,20°,30°,15x60° |

ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL - ACCESSPROES

| | | | | | |
|------------------|---|--|-------------------------|--|--|
| SIDRA ADJUSTABLE | 1.1 1.2 1.3 2.1 2.2 2.3 3.1 3.2 4.1 4.2 4.3 5.1 5.2 5.3 6.1 6.2 6.3 | 30 3000K 40 4000K 50 5000K RGBW | Refer to above table | 1 ON-OFF 2 1-10V 3 DALI 4 DMX/RDM | HG Honeycomb grill AS Anti slip glass |
|------------------|---|--|-------------------------|--|--|







QATAF

BEYOND the name ...

The QATAF is Qatar's national flower and grows along the country's coastal line. QATAF, also known as Lemonium or Sea Lavender, has pink or lilac flowers that grow in clusters from a bright redbud and can be seen in Qatar from the months of March to May. The flowers are decorated almost everywhere around the city to have a beautiful view

This flower symbolizes success, beauty, sympathy, and remembrance. The profound meaning of Limonium conveys "I miss you" when you give these flowers to someone you are fond of. Limonium blooms in spring and summer. They come in an incredible range of colors such as blue, lilac, yellow, white, pink, and purple.



QATAF SERIES



QATAF 1
MONO
3W



QATAF 2
DUAL
4W



QATAF 3
QUADRO
4W



QATAF 4
MULTI
4W



QATAF 5
MONO
10W



QATAF 6
DUAL
10W

QATAF SERIES




IP67

IK10

220-240V

5 YRS
Warranty

3-10
WATTS

Drive
over


| | |
|------------------|--|
| PHYSICAL | |
| Body | Stainless Steel 316L |
| Frame | Stainless Steel 316L |
| Recessing tube | Polycarbonate |
| OPTICAL | |
| Diffuser | Polycarbonate |
| Light Emission | Mono, Dual, Quadro, Multi |
| CRI | >80 |
| ELECTRICAL | |
| CCT | 3000K - 4000K |
| Driver | Integrated LED driver 220-240V 50/60Hz |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% ~ 90% |

QATAF series is a range of compact recessed marker lights, with an IP67 protection rating. The power supply is built into the structure, so they can be connected directly to the power line, making installation easier. The body is made of AISI 316 L steel with lateral light emission to indicate pathways and pedestrian zones.

The luminaries are available with different light sectors for various on-site lighting situations. The light from the luminaries is directed immediately above ground level onto the surface to be illuminated, thus illuminating walkways and traffic areas or highlighting potential hazards such as stairs and steps.



QATAF 1
MONO



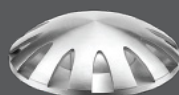
QATAF 2
DUAL



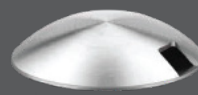
QATAF 3
QUADRO



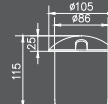
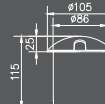
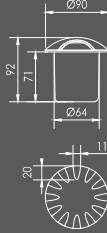
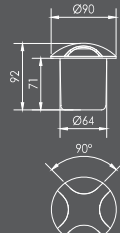
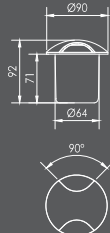
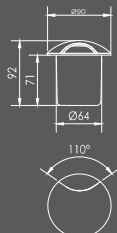
QATAF 4
MULTI



QATAF 5
MONO



QATAF 6
DUAL



PRODUCT RANGE

| | Rated Power(W) | Lumen(lm) | Dimensions(mm) | LED Quantity(pcs) | Beam angle |
|---------|----------------|-----------|----------------|-------------------|------------------------|
| QATAF 1 | 3W | 30lm | Ø90xH92 | 1 pcs | 60° |
| QATAF 2 | 4W | 40lm | Ø90xH92 | 2 pcs | 2x60° |
| QATAF 3 | 4W | 40lm | Ø90xH92 | 4 pcs | 4x60° |
| QATAF 4 | 4W | 40lm | Ø90xH92 | 4 pcs | 12x15° |
| QATAF 5 | 10W | 150lm | Ø105xH115 | 1 pcs | 5°,15°,30°,60° |
| QATAF 6 | 10W | 150lm | Ø105xH115 | 2 pcs | 2x5°,2x15°,2x30°,2x60° |

ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL

QATAF 1 30 3000K Refer to I ON-OFF
 2 40 4000K above table
 3
 4
 5
 6





SPOTLIGHTS SERIES

SPOTLIGHTS SERIES

ZEKREET SCREWLESS SERIES



ZEKREET
SCREWLESS 1.1-1.3
Spotlight 6-10W



ZEKREET
SCREWLESS 2.1-2.3
Spotlight 11-42W



ZEKREET
SCREWLESS 3.1-3.3
Spotlight 40-80W

ZEKREET SERIES



ZEKREET 4.1-4.2
Spotlight 9-20W



ZEKREET 5.1-5.2
Spotlight 20-30W



ZEKREET 6.1-6.2
Spotlight 30-50W



ZEKREET 7.1-7.3
Spotlight 60-100W

VIVID SERIES



VIVID 1.1-1.3
Spotlight 3-8W



VIVID 2.1-2.4
Spotlight 10-20W



VIVID 3.1-3.8
Spotlight 10-60W

BOLD SERIES



BOLD 1.1-1.5
Spotlight 5-12W



BOLD 2.1-2.5
Spotlight 10-16W



BOLD 3.1-3.5
Spotlight 15-21W



BOLD 4.1-4.5
Spotlight 42W

ZEKREET SERIES (Screwless)



ZEKREET is a series of spot lights to be mounted on floor, wall, spike, tree with belt system or on a pole system. Available in various sizes, rotatable and inclinable on the vertical axis, they are designed for lighting small facades, small trees, bushes, sculptures, columns and other architectural elements in general, thanks to a wide range of optics and wattages. ZEKREET comes with a series of accessories that ensure different type of mounting and beam control.

Product Features

- Screwless
- Anti glare grilling
- Self-lock design
- Hidden cable
- 180°+360° Adjustable

IP66

IK08

220-240V

5 YRS
Warranty

6 - 80
WATTS

Upon request

1-10V

DALI

RGB

RGBW

DMX

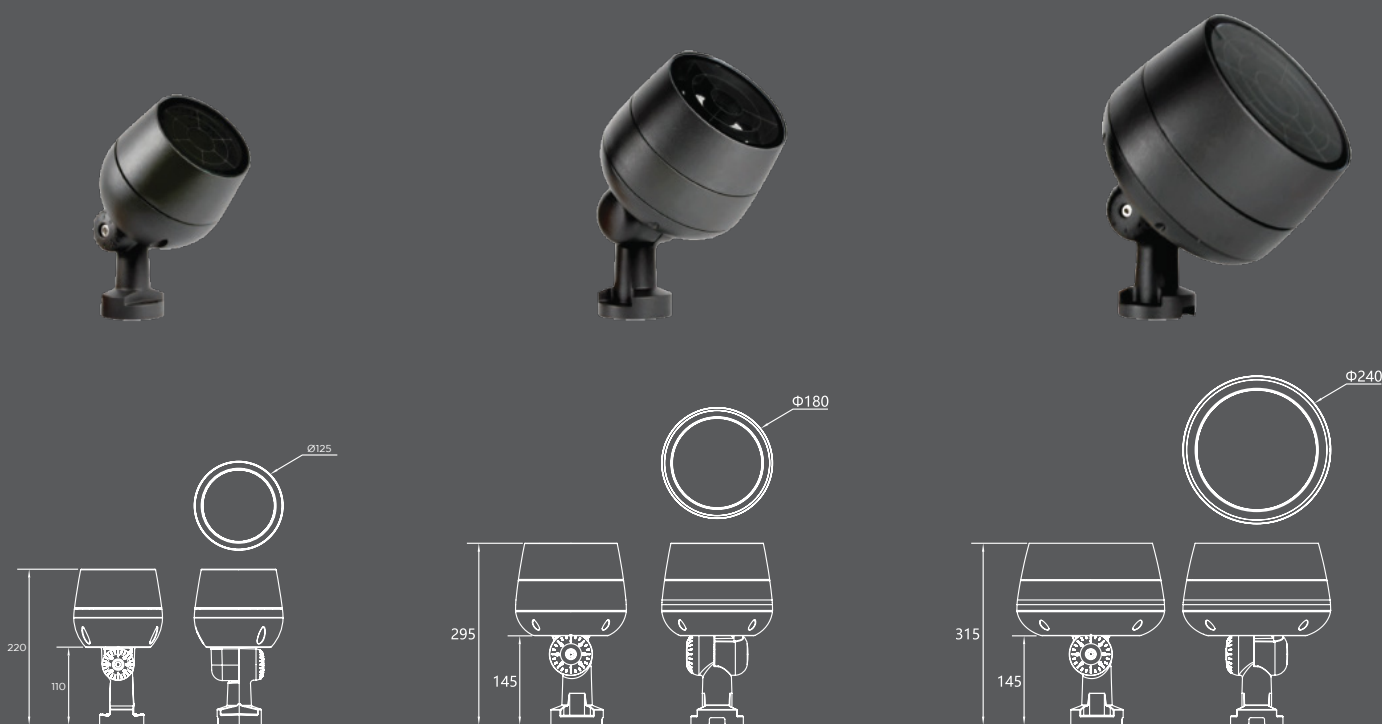
| | |
|-------------------|--|
| PHYSICAL | |
| Body | Aluminum |
| Finish | Powder coating |
| OPTICAL | |
| Diffuser | Tempered glass |
| Light Emission | Symmetrical |
| Aiming | Fixed |
| CRI | >80 |
| ELECTRICAL | |
| Driver | Integrated LED driver 220-240V 50/60Hz |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% ~ 90% |

| | | | | | | | | | | |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| ACCESSORIES | | | | | | | | | | |
| | ZA1 | ZA2 | ZA3 | ZA4 | ZA5 | ZA6 | ZA7 | ZA8 | ZA9 | |
| ZEKREET 1 | ● | × | × | × | × | × | × | × | × | |
| ZEKREET 2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| ZEKREET 3 | ● | ● | ● | ● | ● | ● | ● | ● | ● | |

ZEKREET 1

ZEKREET 2

ZEKREET 3



PRODUCT RANGE

| | Rated Power(W) | Lumen(lm) | Dimensions(mm) | LED Quantity(pcs) | Beam angle | CCT(K) |
|-------------|----------------|-----------|----------------|-------------------|--------------------|-------------------|
| ZEKREET 1.1 | 6W | 295lm | Ø125xH220 | 3 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 1.2 | 8W | 430/550lm | Ø125xH220 | 3 pcs | 3.5°,5° | 3000K,4000K |
| ZEKREET 1.3 | 8W | 610lm | Ø125xH220 | 6 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 1.4 | 10W | 895lm | Ø125xH220 | 9 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 1.5 | 15W | 1345lm | Ø125xH220 | 9 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 1.6 | 18W | 1614lm | Ø125xH220 | 9 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 2.1 | 11W | 910lm | Ø180xH295 | 9 pcs | 7°,15°,25°,40°,60° | 3000K,4000K(RGB) |
| ZEKREET 2.2 | 14W | 1203lm | Ø180xH295 | 12 pcs | 7°,15°,25°,40°,60° | 3000K,4000K(RGB) |
| ZEKREET 2.3 | 21W | 1278lm | Ø180xH295 | 9 pcs | 3.5° | 3000K,4000K(RGB) |
| ZEKREET 2.4 | 21W | 1598lm | Ø180xH295 | 9 pcs | 7°,15°,25°,40°,60° | 3000K,4000K(RGB) |
| ZEKREET 2.5 | 21W | 1815lm | Ø180xH295 | 18 pcs | 7°,15°,25°,40°,60° | 3000K,4000K(RGB) |
| ZEKREET 2.6 | 28W | 2165lm | Ø180xH295 | 12 pcs | 7°,15°,25°,40°,60° | 3000K,4000K(RGB) |
| ZEKREET 2.7 | 30W | 2476lm | Ø180xH295 | 9 pcs | 5° | 3000K,4000K(RGB) |
| ZEKREET 2.8 | 42W | 3283lm | Ø180xH295 | 18 pcs | 7°,15°,25°,40°,60° | 3000K,4000K(RGB) |
| ZEKREET 3.1 | 40W | 2510lm | Ø240xH315 | 18 pcs | 3.5° | 3000K,4000K(RGB) |
| ZEKREET 3.2 | 60W | 4370lm | Ø240xH315 | 18 pcs | 5° | 3000K,4000K(RGB) |
| ZEKREET 3.3 | 60W | 4558lm | Ø240xH315 | 24 pcs | 15°,25°,40°,60° | 3000K,4000K(RGBW) |
| ZEKREET 3.4 | 72W | 5429lm | Ø240xH315 | 24 pcs | 15°,25°,40°,60° | 3000K,4000K(RGBW) |
| ZEKREET 3.5 | 80W | 6516lm | Ø240xH315 | 24 pcs | 15°,25°,40°,60° | 3000K,4000K(RGBW) |

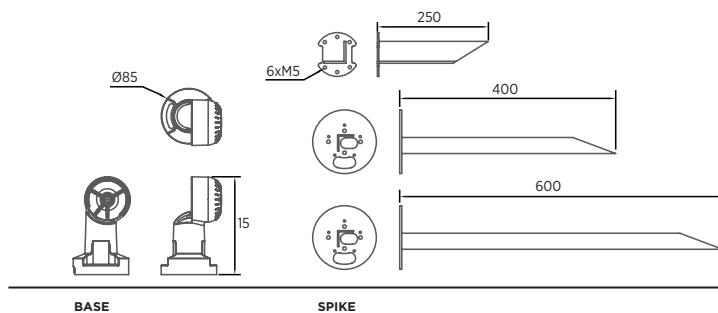
ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL - MOUNTING

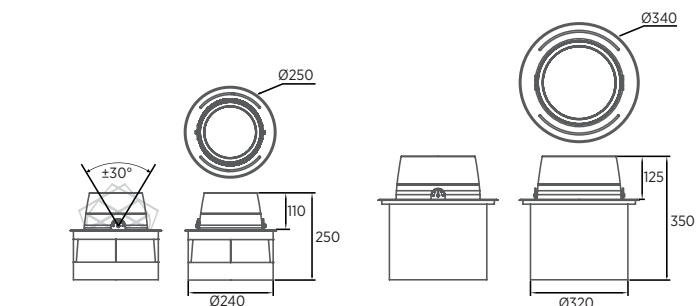
ZEKREET

1.1-1.6
2.1-2.8
3.1-3.530 3000K
40 4000K
RGB
RGBW0.3 3.5°
05 5°
07 7°
15 15°
25 25°
40 40°
60 60°1 ON-OFF
2 1-10V
3 DALI
4 DMX/RDMZA1 BASE/SPIKE
ZA2 EMBEDDED BOX
ZA3 TUBE
ZA4 POLE
ZA5 HOLDER
ZA6 FLEXIBLE SPRING
ZA7 MULTIFUNCTIONAL
ZA8 AREA LIGHT
ZA9 FLOODLIGHT





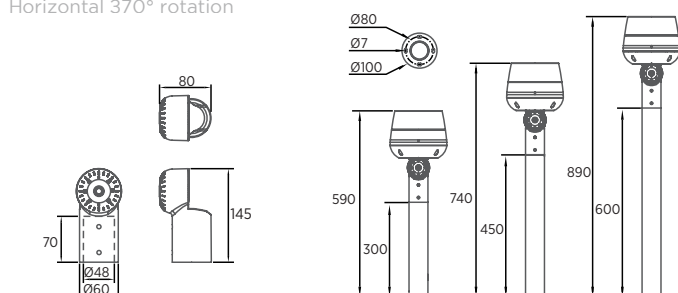
ZA1 - BASE|SPIKE



ZA2 - EMBEDDED BOX



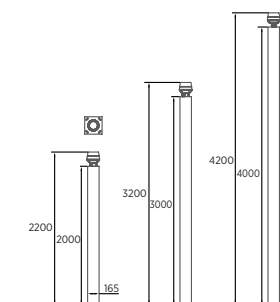
High strength PE anticorrosive embedded cylinder
304 stainless steel cover
5mm high strength tempered glass
Vertical 330° rotation
Horizontal 370° rotation



ZA3 - TUBE



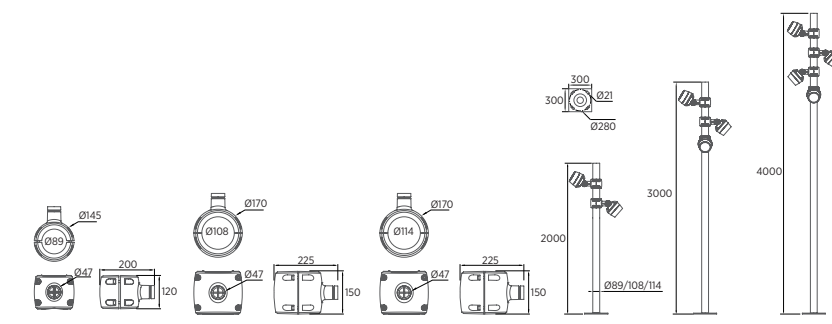
Top Light source is die cast aluminum
Pole is stainless steel laser engraving (design available on request)



ZA4 - POLE

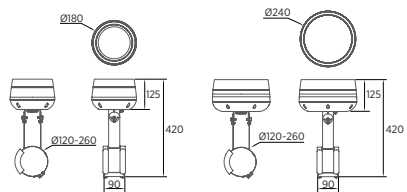


Top Light source is die cast aluminum
Pole is stainless steel laser engraving (design available on request)

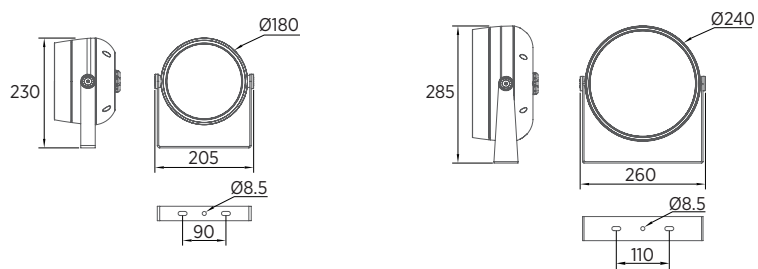
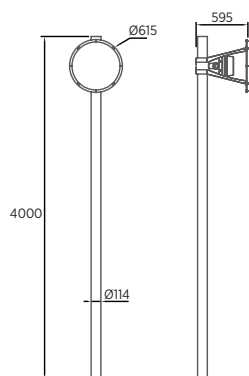
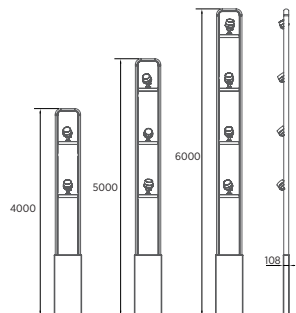


ZA5 - HOLDER





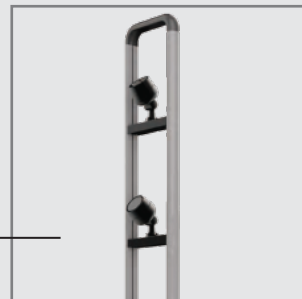
Flexible stainless steel spring
Can be held in the tree trunk without damaging the growth of the tree.
Easy installation



ZA6 - FLEXIBLE SPRING



ZA7 - MULTIFUNCTIONAL



ZA8 - AREA LIGHT



ZA9 - FLOOD LIGHT





ZEKREET SERIES



ZEKREET is a series of spot lights to be mounted on floor, wall, spike, tree with belt system or on a pole system. Available in various sizes, rotatable and inclinable on the vertical axis, they are designed for lighting small facades, small trees, bushes, sculptures, columns and other architectural elements in general, thanks to a wide range of optics and wattages. ZEKREET comes with a series of accessories that ensure different type of mounting and beam control.

Product Features

- Anti glare grilling
- Self-lock design
- Hidden cable
- 180°+360° Adjustable

IP66

IK08

220-240V

5 YRS
Warranty

9-100
WATTS

Upon request

1-10V

DALI

| PHYSICAL | |
|------------------|--|
| Body | Aluminum |
| Finish | Powder Coated |
| OPTICAL | |
| Diffuser | Tempered glass |
| Light Emission | Symmetrical |
| Aiming | Fixed |
| CRI | >80 |
| ELECTRICAL | |
| Driver | Integrated LED driver 220-240V 50/60Hz |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% ~ 90% |

ACCESSORIES

| | ZB1 | ZB2 | ZB3 | ZB4 | ZB5 | ZB6 | ZB7 | ZB8 | ZB9 | ZB10 | ZB11 | ZB12 | ZB13 | ZB14 |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| ZEKREET 1 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ZEKREET 2 | ● | ● | ● | × | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ZEKREET 3 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ZEKREET 4 | ● | × | ● | × | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

ZEKREET 1



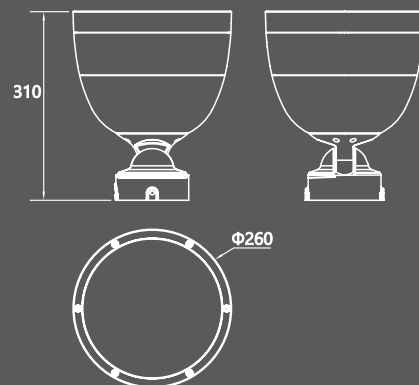
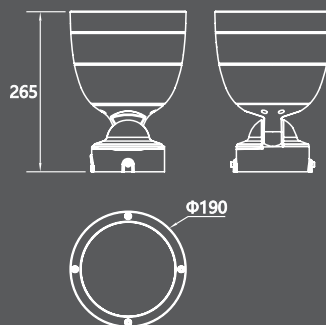
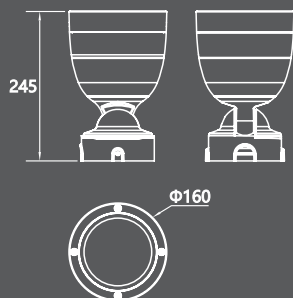
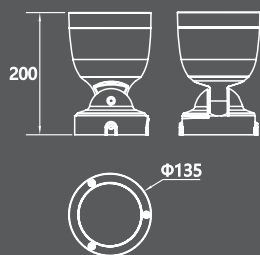
ZEKREET 2



ZEKREET 3



ZEKREET 4



PRODUCT RANGE

| | Rated Power(W) | Lumen(lm) | Dimensions(mm) | LED Quantity(pcs) | Beam angle | CCT(K) |
|-------------|----------------|-----------|----------------|-------------------|--------------------|-------------|
| ZEKREET 1.1 | 9W | 927lm | Ø135xH200 | 3 pcs | 3°,5° | 3000K,4000K |
| ZEKREET 1.2 | 9W | 1137lm | Ø135xH200 | 3 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 1.3 | 20W | 1925lm | Ø135xH200 | 6 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 2.1 | 20W | 1743lm | Ø160xH245 | 6 pcs | 3°,5° | 3000K,4000K |
| ZEKREET 2.2 | 20W | 2099lm | Ø160xH245 | 6 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 2.3 | 30W | 3100lm | Ø160xH245 | 9 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 3.1 | 30W | 2633lm | Ø190xH265 | 9 pcs | 3°,5° | 3000K,4000K |
| ZEKREET 3.2 | 50W | 4803lm | Ø190xH265 | 12 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 4.1 | 60W | 5036lm | Ø260xH310 | 18 pcs | 3°,5° | 3000K,4000K |
| ZEKREET 4.2 | 80W | 7992lm | Ø260xH310 | 24 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 4.3 | 100W | 10847lm | Ø260xH310 | 36 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |

ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL - MOUNTING

ZEKREET

1.1
1.2
1.3
2.1
2.2
2.3
3.1
3.2
4.1
4.2
4.3

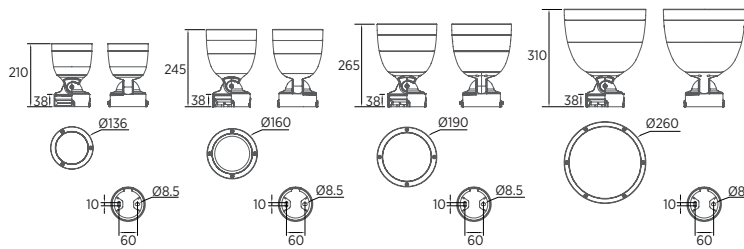
30 3000K
40 4000K

Refer to
above table

1 ON-OFF
2 1-10V
3 DALI

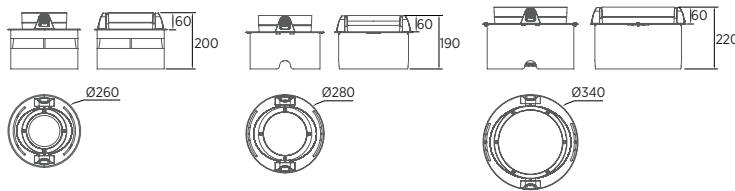
ZB1 GROUND
ZB2 HALF BURIED
ZB3 TUBE
ZB4 AREA LIGHT
ZB5 HOLDER
ZB6 FLEXIBLE SPRING
ZB7 COLUMN PROJECTOR
ZB8 WASHER PROJECTOR
ZB9 ARCH LIGHTING
ZB10 SHADOW PROJECTOR





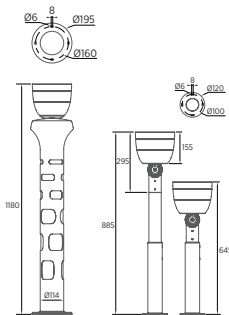
Low position
Built-in junction

ZB1-GROUND



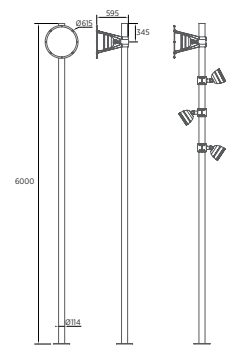
0-20mm height adjustable
Shooting angle lockable
SS cover with 5mm tempered glass

ZB2-HALF BURIED

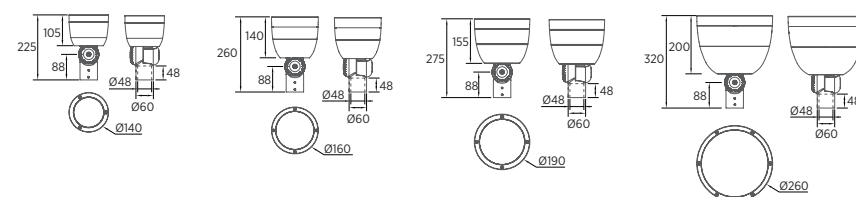
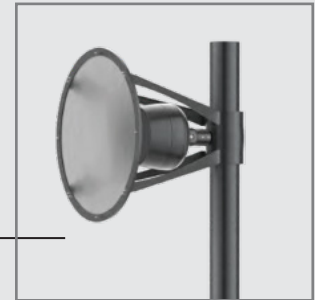


Top Light source is die cast aluminum
Pole is stainless steel laser engraving (design available on request)

ZB3-TUBE

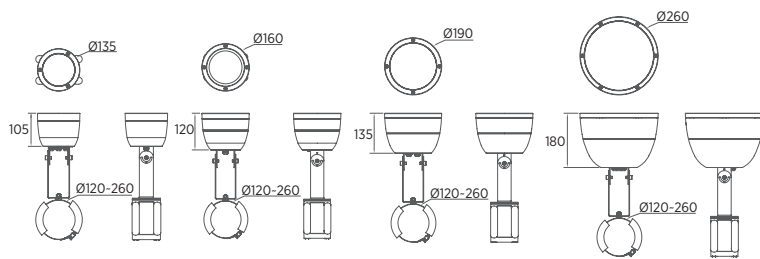


ZB4-AREA LIGHT



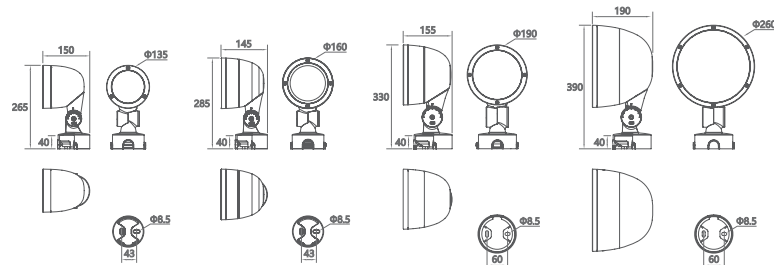
ZB5-HOLDER



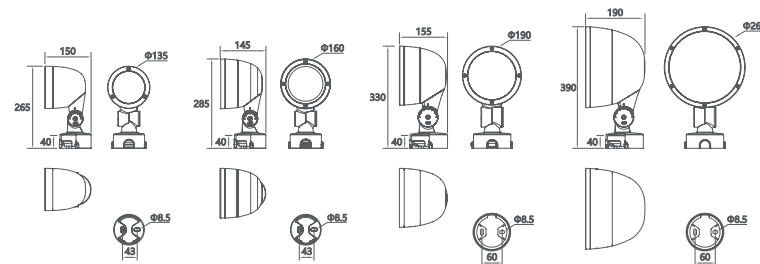


Flexible stainless steel spring
Can be held in the tree trunk without damaging the growth of the tree.
Easy installation

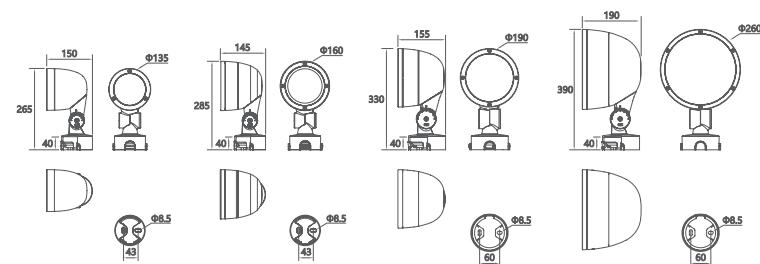
ZB6-FLEXIBLE SPRING



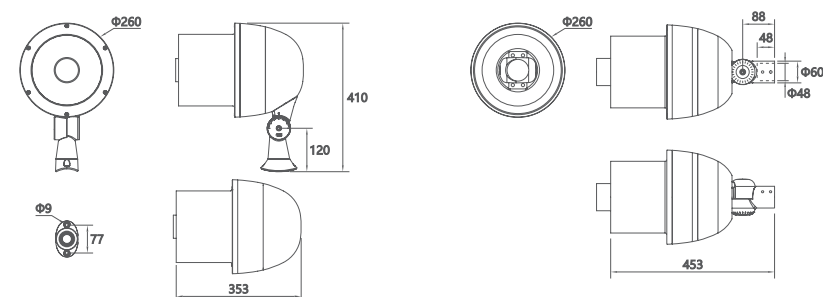
ZB7-COLUMN PROJECTOR



ZB8-WASHER PROJECTOR



ZB9- ARCH LIGHTING



ZB10-SHADOW PROJECTOR



VIVID SPOTLIGHT SERIES



VIVID SPOTLIGHT SERIES features a robust die-cast copper-free aluminum body renowned for its high corrosion resistance, complemented by a durable powder coating with phosphochromating pre-finish. Stainless steel screws ensure secure assembly, while the transformer operates efficiently with an electronic power supply at 220/240V 50/60Hz, built directly into the unit. A silicone rubber gasket provides reliable sealing, and tempered glass ensures strength and safety. The fixture's design allows for full rotation of 360° horizontally and +90° vertically, offering versatile positioning options.

IP66

IK08

220-240V

5 YRS
Warranty

3 - 60
WATTS

+/- 90°

360°

Upon request

0 - 10V

DALI

DMX

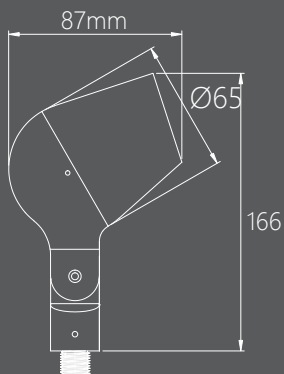
RGBW

| | |
|-------------------|---|
| PHYSICAL | |
| Body | High corrosion resistance die-cast copper-free aluminum body |
| Finish | Powder coated with phosphochromating pre-finish Textured grey, Anthracite grey, Matt black, Bronze |
| Screws | Stainless steel |
| Gasket | Silicone rubber |
| OPTICAL | |
| Diffuser | Tempered Glass |
| Beam angle | 18°,24°,36°,60°,40x70° |
| Aiming | Rotatable with accessories |
| CCT | 2700K/3000K/4000K/5000K/RGBW |
| CRI | >80 |
| SDCM | McAdam step 3 |
| ELECTRICAL | |
| Light source | LED |
| Efficacy | 90 lm/W |
| Driver | Integrated LED driver 220-240V 50/60Hz |
| Power cable | 0.5 mt. neoprene power cable included |
| Ambient Temp. | -25°C - 50°C |
| Ambient Humidity | 10% - 90% |

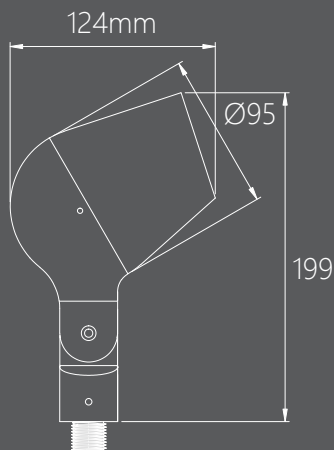




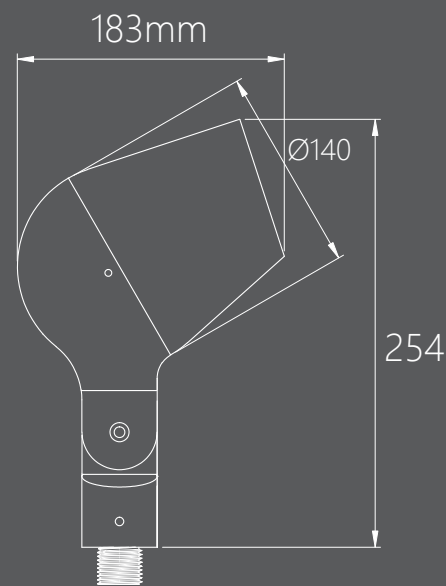
VIVID1



VIVID2



VIVID3



PRODUCT RANGE

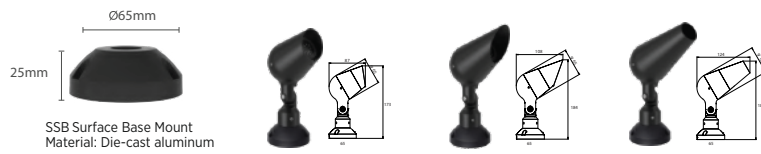
| | Rated Power(W) | Lumen(lm) | Dimensions(mm) | LED Quantity(pcs) | CCT(K) | Control |
|-----------|----------------|-----------|----------------|-------------------|--------|---|
| VIVID 1.1 | 3W | 270lm | Ø65xH166 | COB 1 pcs | Single | Integrated ON-OFF driver, Remote DALI/Dimming driver(36Vdc) |
| VIVID 1.2 | 6W | 540lm | Ø65xH166 | COB 1 pcs | Single | Integrated ON-OFF driver, Remote DALI/Dimming driver(36Vdc) |
| VIVID 1.3 | 8W | 720lm | Ø65xH166 | COB 1 pcs | Single | Integrated ON-OFF driver, Remote DALI/Dimming driver(36Vdc) |
| VIVID 2.1 | 10W | 900lm | Ø95xH199 | COB 1 pcs | Single | Integrated ON-OFF driver, Remote DALI/Dimming driver(36Vdc) |
| VIVID 2.2 | 12W | 396lm | Ø95xH199 | SMD 3 pcs | RGBW | Integrated DMX decoder(24Vdc) |
| VIVID 2.3 | 15W | 1350lm | Ø95xH199 | COB 1 pcs | Single | Integrated ON-OFF driver, Remote DALI/Dimming driver(36Vdc) |
| VIVID 2.4 | 20W | 1800lm | Ø95xH199 | COB 1 pcs | Single | Integrated ON-OFF driver, Remote DALI/Dimming driver(36Vdc) |
| VIVID 3.1 | 30W | 2700lm | Ø140xH254 | COB 1 pcs | Single | Integrated ON-OFF driver and DALI/Dimming driver |
| VIVID 3.2 | 40W | 3600lm | Ø140xH254 | COB 1 pcs | Single | Integrated ON-OFF driver and DALI/Dimming driver |
| VIVID 3.3 | 60W | 5400lm | Ø140xH254 | COB 1 pcs | Single | Integrated ON-OFF driver, Remote DALI/Dimming driver(36Vdc) |
| VIVID 3.4 | 24W | 792lm | Ø140xH254 | SMD 3 pcs | RGBW | Integrated DMX decoder(24Vdc) |
| VIVID 3.5 | 36W | 1188lm | Ø140xH254 | SMD 3 pcs | RGBW | Integrated DMX decoder(24Vdc) |
| VIVID 3.6 | 10W | 900lm | Ø140xH254 | COB 1 pcs | Single | Integrated DALI/Dimming driver |
| VIVID 3.7 | 15W | 1350lm | Ø140xH254 | COB 1 pcs | Single | Integrated DALI/Dimming driver |
| VIVID 3.8 | 20W | 1800lm | Ø140xH254 | COB 1 pcs | Single | Integrated DALI/Dimming driver |

*The lumen output may vary depending on the beam angle, and the use of anti-glare accessory.

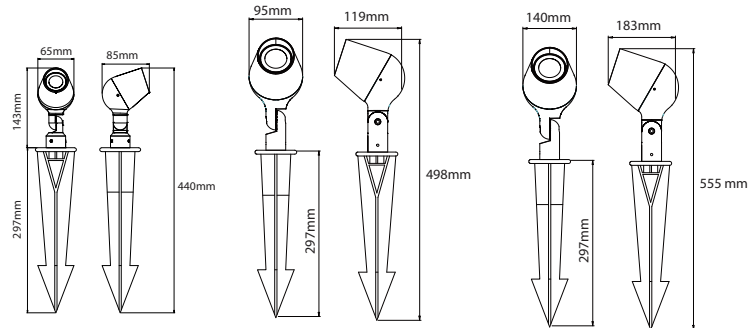
ORDERING CODE

SERIES NAME - PRODUCT RANGE - FINISH - CCT - OPTICS - CONTROL - ACCESSORIES - MOUNTING

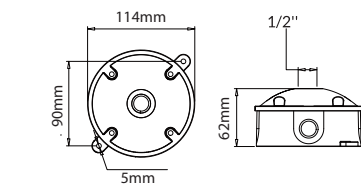
| | | | | | | | |
|-------|-----|---------------|----------|-------------|----------|------------------------|-----------------|
| VIVID | 1.1 | G Grey | 27 2700K | Refer to | 1 ON-OFF | HG Honeycomb grill | A1 BASE |
| | 1.2 | AG Anthracite | 30 3000K | above table | 2 0-10V | JB Junction box | A2 SPIKE |
| | 2.1 | MB Matt black | 40 4000K | | 3 DALI | WM Wall mounted | A3 JUNCTION BOX |
| | 2.2 | B Bronze | 50 5000K | | | SB Surface mounted box | A4 WALL MOUNT |
| | 2.3 | | RGBW | | | SP Spike | A5 TREE MOUNT |
| | 2.4 | | | | | TM Tree mounted | A6 BASE |
| | 3.1 | | | | | PM1 Pole mounted 1 | A7 POLE TYPE 1 |
| | 3.2 | | | | | PM2 Pole mounted 2 | A8 POLE TYPE 2 |
| | 3.3 | | | | | SL Sign light | A9 POLE TYPE 3 |
| | 3.4 | | | | | | A10 SIGN LIGHT |
| | 3.5 | | | | | | |
| | 3.6 | | | | | | |
| | 3.7 | | | | | | |
| | 3.8 | | | | | | |



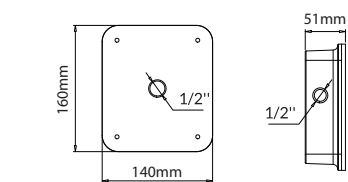
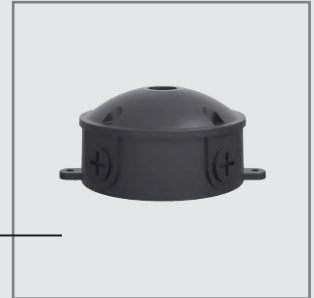
A1 - BASE FOR VIVID 1



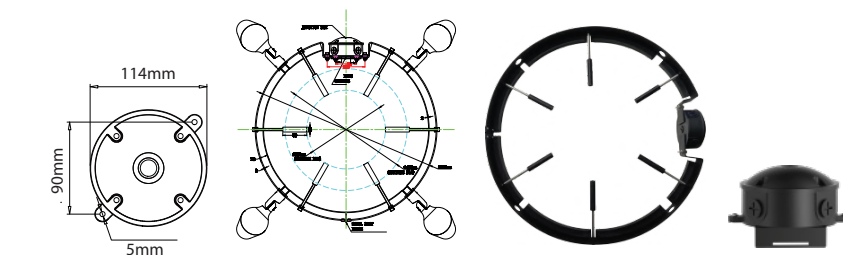
A2 - SPIKE



A3 - JUNCTION BOX

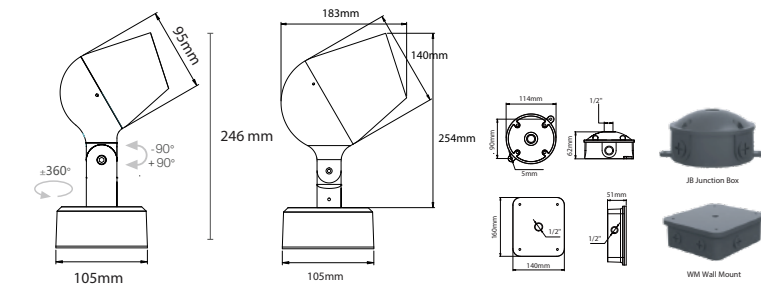


A4 - WALL MOUNT

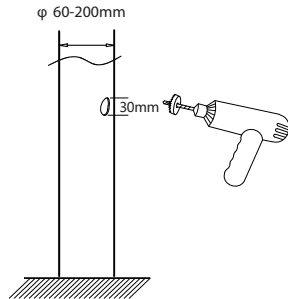


A5 - TREE MOUNT

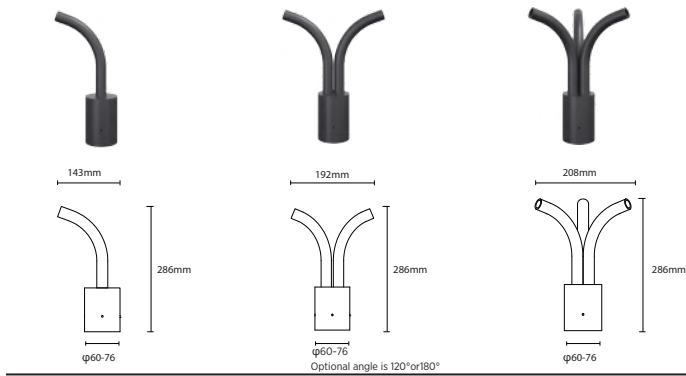
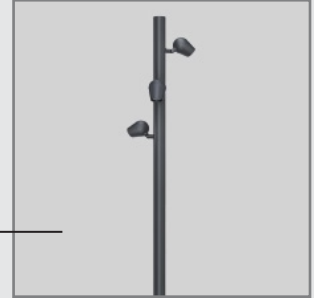




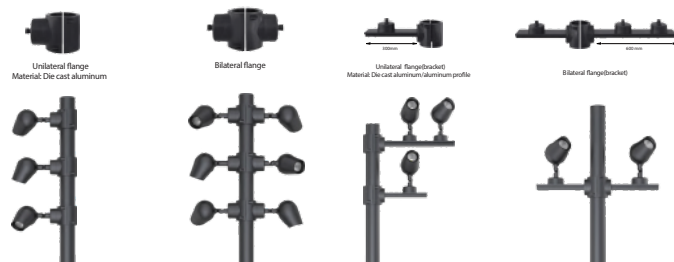
A6 - BASE FOR VIVID 2/3



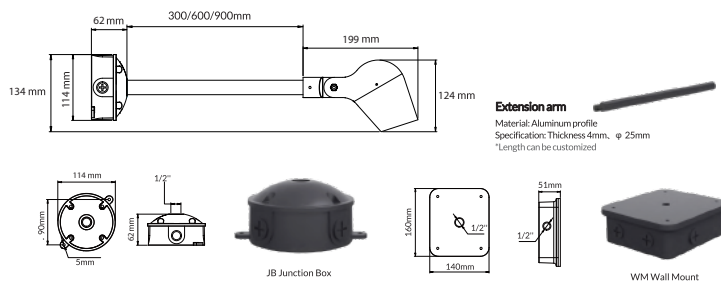
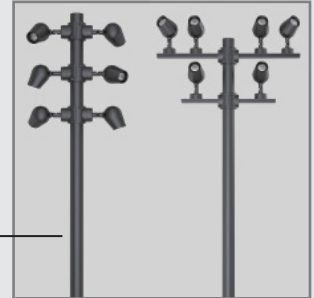
**A7 - POLE MOUNTED
for VIVID 2/3**



**A8 - POLE MOUNTED TYPE 2
for VIVID 2/3**



**A9 - POLE MOUNTED TYPE 3
for VIVID 2/3**



A10 - SIGN LIGHT



BOLD SPOTLIGHT SERIES



BOLD SPOTLIGHT SERIES features a robust die-cast aluminum body known for its high corrosion resistance, complemented by a durable powder coating finish. Stainless steel screws ensure secure assembly, while the transformer operates efficiently with an electronic power supply at 220/240V 50/60Hz, built directly into the unit or can be remote. A silicone rubber gasket provides reliable sealing, and tempered glass ensures strength and safety. The fixture's design allows for full rotation of 360° horizontally and +90° vertically, offering versatile positioning options.

IP66

IK05

220-240V

5 YRS
Warranty

6-40
WATTS

+/- 90°

360°

Upon request

1-10V

DALI

DMX

RGB

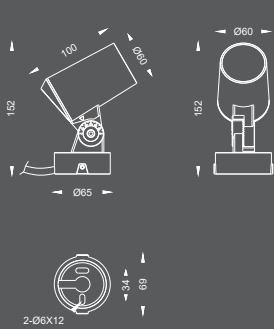
RGBW

| | |
|-------------------|--|
| PHYSICAL | |
| Body | Die-cast aluminum |
| Finish | Powder coated Grey, black, white, green, brown (other colors can be customized) |
| Mounting options | Ceiling, wall, ground, spike, tree, pole. |
| OPTICAL | |
| Diffuser | Tempered glass |
| Aiming | Rotatable |
| CCT | 2700K/3000K/4000K/6000K/RGB/RGBW |
| CRI | >80 |
| ELECTRICAL | |
| Light source | LED SMD/COB |
| Driver | Integrated(220-240V 50/60Hz) or Remote LED(12/24VDC) |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% - 90% |

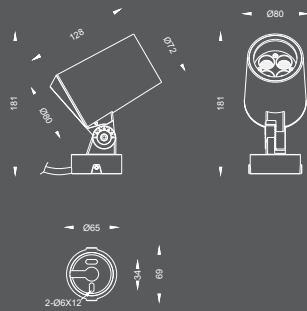




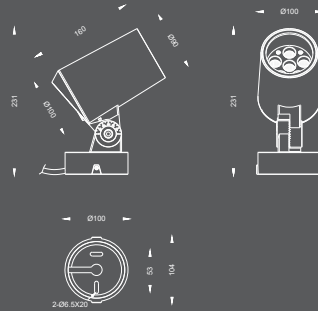
BOLD1



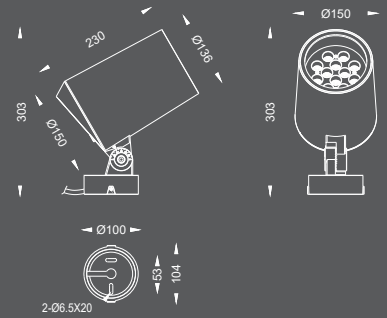
BOLD2



BOLD3



BOLD4



PRODUCT RANGE

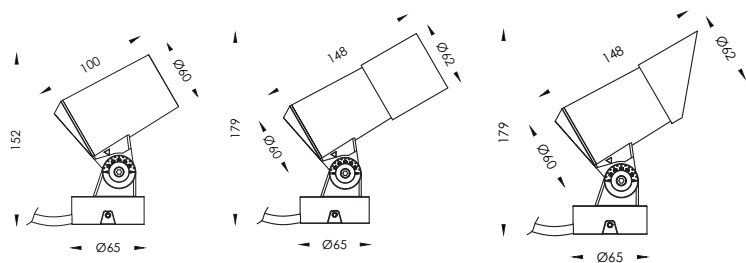
| | Rated Power(W) | LED | Voltage(V) | Beam angle | Lumen (lm) | CCT(K) |
|---------------|----------------|----------------|---------------------|-----------------|------------|-----------|
| BOLD11 | 1x5W | SMD CREE | 12/24VDC 120-240VAC | 3°/8° | 350lm | Single |
| BOLD12 | 3x2W | SMD OSRAM/CREE | 12/24VDC 120-240VAC | 15°/25°/40°/60° | 330lm | Single |
| BOLD13 | 1x6W | COB CREE | 12/24VDC 120-240VAC | 18°/24°/38°/60° | 600lm | Single |
| BOLD14 | 3x3W | SMD OSRAM | 12/24VDC | 18°/24°/38°/60 | 128lm | RGB 3in1 |
| BOLD15 | 3x4W | SMD OSRAM | 12/24VDC | 18°/24°/38°/60 | 168lm | RGBW 4in1 |
| BOLD21 | 1x10W | SMD CREE | 12/24VDC 120-240VAC | 3°/8° | 750lm | Single |
| BOLD22 | 4x3W | SMD OSRAM/CREE | 12/24VDC 120-240VAC | 15°/25°/40°/60° | 780lm | Single |
| BOLD23 | 1x13W | COB CREE | 12/24VDC 120-240VAC | 18°/24°/38°/60° | 1310lm | Single |
| BOLD24 | 4x3W | SMD OSRAM | 12/24VDC | 18°/24°/38°/60 | 168lm | RGB 3in1 |
| BOLD25 | 4x4W | SMD OSRAM | 12/24VDC | 18°/24°/38°/60 | 224lm | RGBW 4in1 |
| BOLD31 | 3x5W | SMD CREE | 12/24VDC 120-240VAC | 3°/8° | 1140lm | Single |
| BOLD32 | 6x3W | SMD OSRAM/CREE | 12/24VDC 120-240VAC | 15°/25°/40°/60° | 1200lm | Single |
| BOLD33 | 1x20W | COB CREE | 12/24VDC 120-240VAC | 18°/24°/38°/60° | 2200lm | Single |
| BOLD34 | 6x2.5W | SMD OSRAM | 12/24VDC | 18°/24°/38°/60 | 360lm | RGB 3in1 |
| BOLD35 | 6x3.5W | SMD OSRAM | 12/24VDC | 18°/24°/38°/60 | 480lm | RGBW 4in1 |
| BOLD41 | 6x7W | SMD CREE | 12/24VDC 120-240VAC | 3°/8° | 2520lm | Single |
| BOLD42 | 12x3.5W | SMD OSRAM/CREE | 12/24VDC 120-240VAC | 15°/25°/40°/60° | 2520lm | Single |
| BOLD43 | 1x40W | COB CREE | 12/24VDC 120-240VAC | 18°/24°/38°/60° | 3800lm | Single |
| BOLD44 | 12x2.5W | SMD OSRAM | 12/24VDC | 18°/24°/38°/60 | 660lm | RGB 3in1 |
| BOLD45 | 12x3.5W | SMD OSRAM | 12/24VDC | 18°/24°/38°/60 | 990lm | RGBW 4in1 |

*The lumen output may vary depending on the beam angle, and the use of anti-glare accessory.

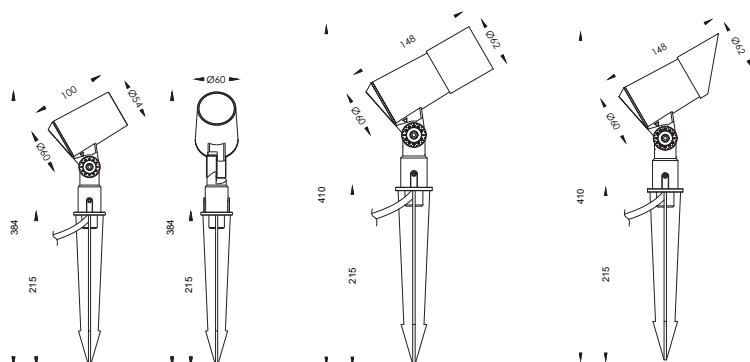
ORDERING CODE

SERIES NAME - PRODUCT RANGE - FINISH - CCT - OPTICS - CONTROL - MOUNTING

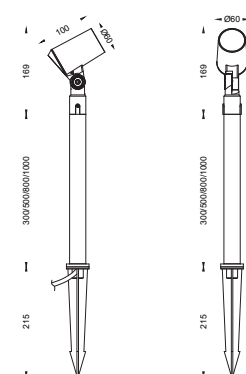
| | | | | | | |
|------|--|--|--|-------------------------|-------------------------------|--|
| BOLD | 1.1-1.5 2.1-2.5 3.1-3.5 4.1-4.5 | G Grey B Black W White G Green B Brown | 27 2700K 30 3000K 40 4000K 60 6000K RGB RGB RGBW RGBW | Refer to above table | 1 ON-OFF 2 1-10V 3 DALI | A1 BASE A2 SPIKE A3 BOLLARD A4 POLE MOUNTED A5 POLE MOUNTED for type 3/4 |
|------|--|--|--|-------------------------|-------------------------------|--|



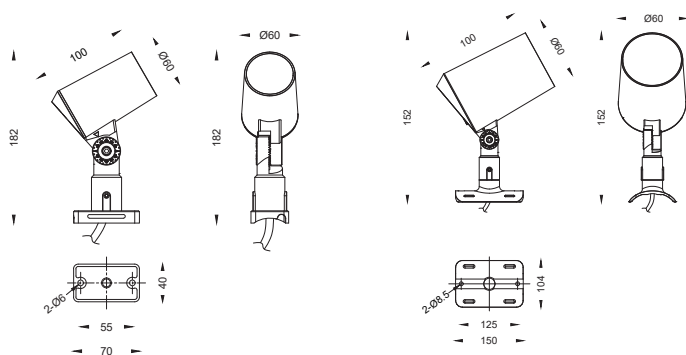
A1 - BASE



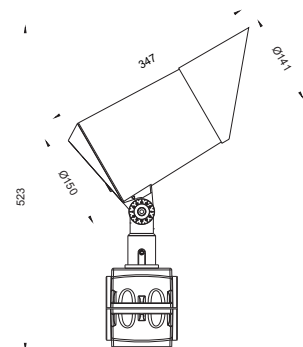
A2 - SPIKE



A3 - BOLLARD



A4 - POLE MOUNTED



A5 - POLE MOUNTED for 3/4





SAQR STREET LIGHTING

Light up the way

High efficacy • Innovative • Durable



BEYOND the name ...

SAQR means Falcon in English. The falcon is Qatar's national bird, which is highly appreciated and loved in Arabic countries. The Falcon is related to heritage and culture, and it represents courage and dignity. In Qatar, there are 6 different kinds of falcons; the Amur falcon, Sooty falcon, Lanner falcon, Saqr falcon, Peregrine falcon, and the Barbary falcon. The falcon is a very important bird in Qatar as it had been used as a hunting tool because of its sharp eyesight, and is associated with being noble and wealthy. It is a popular bird but has to be cared for appropriately and undergo intensive training. Falconry is an integral part of the heritage and culture of Qatar with falconers forming a very special bond with their falcons. In 2012, a hunting competition was founded; Al Galayel.

AREAS OF APPLICATION

URBAN & RESIDENTIAL STREETS

RAILWAYS & METRO STATIONS

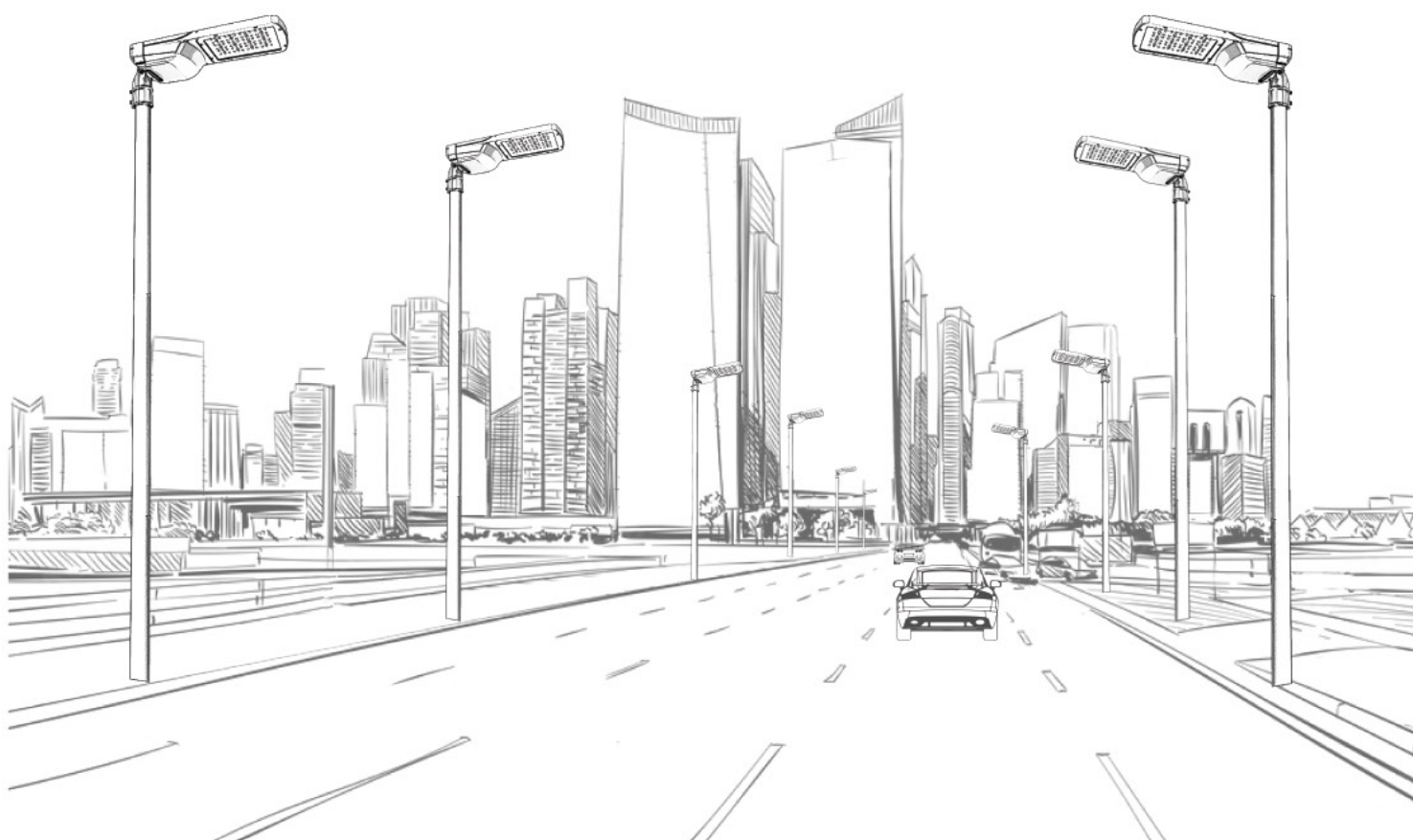
BIKES & PEDESTRIAN AREAS

ROADS & MOTOR WAYS

PARKING AREAS

HIGHWAYS

BRIDGES



Products Benefits & Features

- Superior efficacy, up to 155 lm/W.
- 70% energy saving, short ROI period.
- Up to 100,000 hrs @ L70, low maintenance cost.
- World-class, approbated quality components.
- Tool-less opening of driver box, ease of maintenance.
- High-grade aluminum housing with stainless steel screws marine grade to ensure high quality and reliable operation.
- Support horizontal and vertical mounted, suitable for different light poles.
- Excellent outlook, robust and durable design.
- Lifetime of more than 100,000 hours.
- Easy and fast installation.
- Wide temperature operating range.
- IK10, IP66.
- Smart city simplified integration options.
- Wide choice of optics.
- 95% of the material used are recyclable materials.
- 5 years warranty.

Dimensions

SAQR MINI

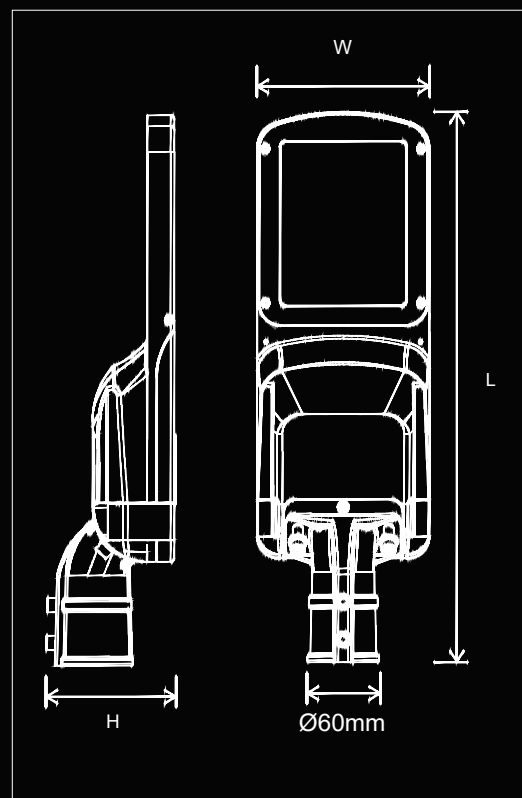
Wattage: 20,40,60W
Dimensions: L610xW190xH143mm
Weight: 4.7kg

SAQR MIDI

Wattage: 80,100,120W
Dimensions: L660xW240xH143mm
Weight: 5.8kg

SAQR MAXI

Wattage: 150,180,200,240W
Dimensions: L762xW290xH143mm
Weight: 8.1kg



Product Datasheet

Product Range

| | SAQR MINI 1.1 | SAQR MINI 1.2 | SAQR MINI 1.3 |
|---------------------|---------------|---------------|---------------|
| Nominal Wattage (W) | 20 | 40 | 60 |
| Efficiency (lm/W) | 155lm/W | 150lm/W | 150lm/W |
| Lumen Output (lm) | 3100 | 6000 | 9000 |

| | SAQR MIDI 1.1 | SAQR MIDI 1.2 | SAQR MIDI 1.3 |
|---------------------|---------------|---------------|---------------|
| Nominal Wattage (W) | 80 | 100 | 120 |
| Efficiency (lm/W) | 150lm/W | 155 lm/W | 155 lm/W |
| Lumen Output (lm) | 12000 | 15500 | 18600 |

| | SAQR MAXI 1.1 | SAQR MAXI 1.2 | SAQR MAXI 1.3 | SAQR MAXI 1.4 |
|---------------------|---------------|---------------|---------------|---------------|
| Nominal Wattage (W) | 150 | 180 | 200 | 240 |
| Efficiency (lm/W) | 150lm/W | 150lm/W | 150lm/W | 150lm/W |
| Lumen Output (lm) | 22500 | 27000 | 30000 | 36000 |

*Values are subject to ±5% tolerance.

Electrical Data

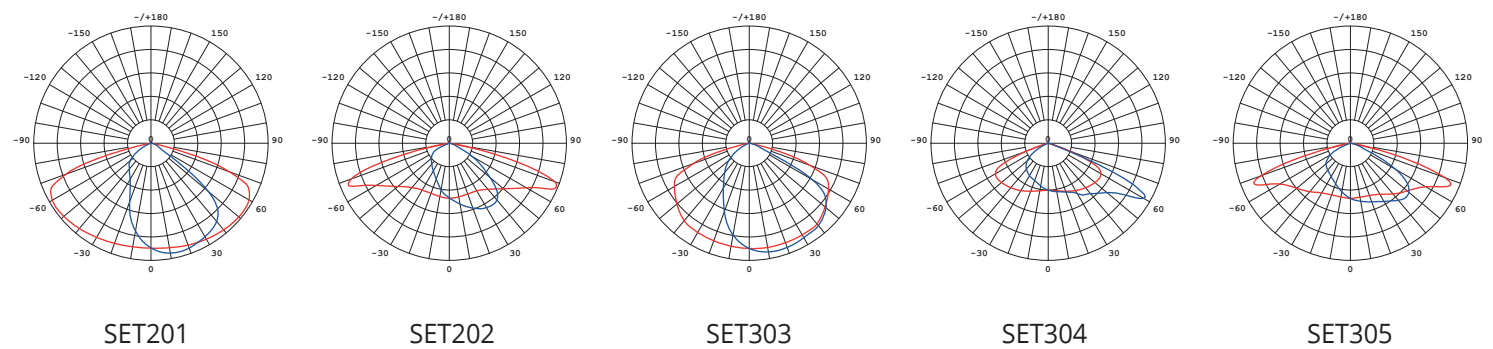
| | |
|--|--|
| Nominal Wattage (W) | 220-240VAC 50/60Hz |
| LED | Lumileds |
| Driver | Inventronics Osram (Default) / Other brands (available on request) |
| Power Factor (PF) | >0.95 |
| THD | <15 |
| Typical Leakage current | <5 mA |
| Surge protection (including LED indicator) | 10KV (Default) / 20KV (available on request) |
| Optics | SET201,SET202,SET303,SET304,SET305 |
| Standard Deviation of Color Matching | 3 SDCM / 5 SDCM |
| CRI | Ra> 70 (Default) / Ra>80 (available on request) |
| CCT (K) | 3000K,4000K,5000K,5700K |

General Data

| | |
|-----------------------------|--|
| Body Material | High Pressure Die-cast Aluminum powder coated |
| Housing Color | Gray (Default) / Other colors (available on request) |
| Cover Material | Clear tempered glass |
| Lens Material | UV-resistant Polycarbonate |
| Working Ambient Temperature | -40°C ~ +50°C, 10% ~ 95%RH |
| Lifespan L70 at 25° | >100,000 h |
| Mounting Type | Side entry or Vertical pole mounted 60mm / Pole reducer 76/60 (available on request) |
| Dimmable | 1-10V Dimming (Default) / Timer dimming (available on request) |
| Protection Class | Class I (Default) / Class II (available on request) |
| Sealing | Gaskets |
| Screws | Stainless steel 316 marine grade |
| IP rating | IP66 |
| IK rating | IK10 |
| Warranty | 5 years |
| Compliance testing | CB, LM79, LM80, LM82, LM84, TM-21, TM-28, THD, ISTMT, Corrosion test, 3-axis vibration test, Photobiological safety test, IP66, IK10 |
| Standards | RoHs, IECEE, IEC, EER |

Product Datasheet

Distributions



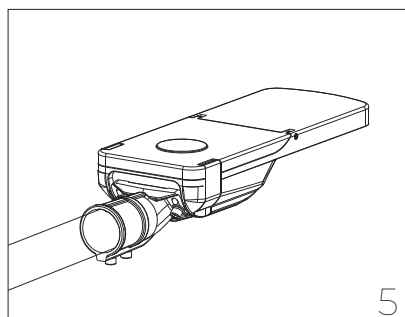
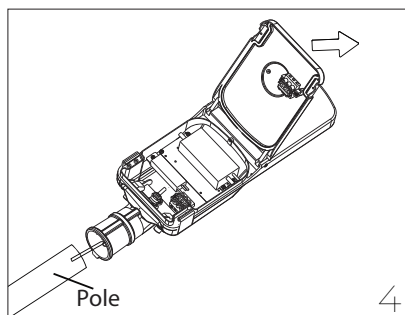
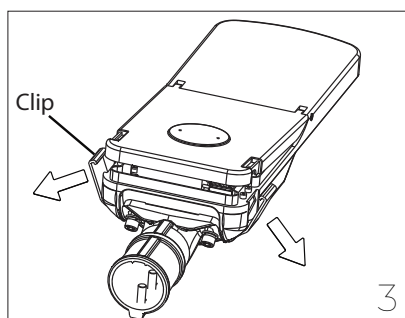
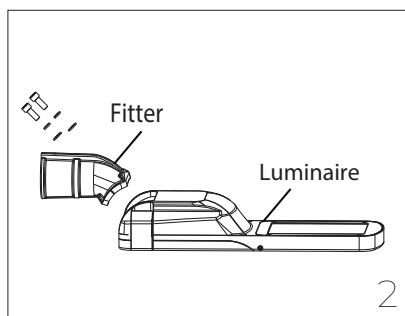
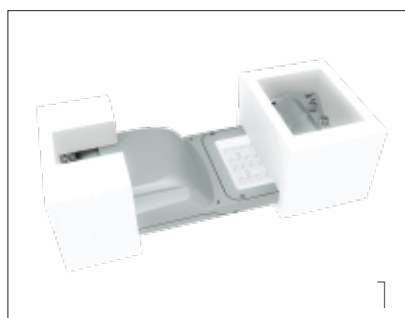
Optional accessories

| | | | | | | |
|--|---|---|---|--|---|---|
| Photocell | Shorting Cap | NEMA Socket (3/5/7 pin) | Motion Sensor | Smart Controller | Knife Switch | Pole Reducer |
|  |  |  |  |  |  |  |
| Ph | ShC | NS | MS | SC | KS | PR |

ORDERING CODE

| SERIES NAME - PRODUCT RANGE - COLOR - SURGE PRT. - CRI - CCT - PRT. CLASS - OPTICS - ACCESSORIES | | | | | | | | | |
|--|----------|---------|--------|---------|----------|-------------|----------|-----|------------------|
| SAQR | MINI I.1 | G Gray | I 10KV | 7 Ra>70 | 30 3000K | I Class I | I SET201 | Ph | PHOTOCELL |
| | MINI I.2 | | 2 20KV | | | | 2 SET202 | ShC | SHORTING CAP |
| | MINI I.3 | B Black | | 8 Ra>80 | 40 4000K | II Class II | 3 SET303 | NS | NEMA SOCKET |
| | MIDI I.1 | | | | | | 4 SET304 | MS | MOTION SENSOR |
| | MIDI I.2 | | | | | | 5 SET305 | SC | SMART CONTROLLER |
| | MIDI I.3 | | | | | | | KS | KNIFE SWITCH |
| | MIDI I.4 | | | | | | | PR | POLE REDUCER |
| | MAXI I.1 | | | | | | | | |
| | MAXI I.2 | | | | | | | | |
| | MAXI I.3 | | | | | | | | |
| | MAXI I.4 | | | | | | | | |

Installation Manual



Installation & connection instructions

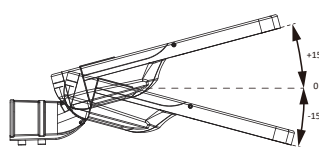
- STEP 1: Open the package and check the product.
In case of any damage, contact us.
- STEP 2: Fasten the fitter onto street light with screws provided and adjust the fitter in the desired tilt angle.
- STEP 3: Open the clips and Insert the pole and external power cord into the luminaire. Tighten the M16 connector.
- STEP 4: Connect the cable to Knife switch or terminal block, make sure to connect the cable correctly.
Brown-Live, Blue- Neutral, Yellow/Green-Ground.
Fix the luminaire and pole by allen wrench.
- STEP 5: Close the cover and clips.
Switch the voltage on and check to see that the street light works properly.

Recommended torque: $17\text{Nm} \pm 1\text{Nm}$

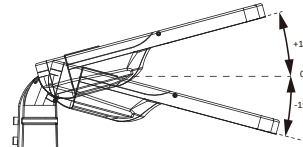
Caution

- Installation and maintenance must be performed by professionals only.
- Please ensure the pole is strong enough and the screws are tightened.
- The ground wire must be securely connected.
- Please make sure the LED fixture is working with correct input voltage.
- Cut off the power before maintenance.
- Do not use chemicals or corrosive cleaner to clean the fixture.
- If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by a qualified person in order to avoid a hazard.
- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.
- Torque setting in newton meters to be applied to any bolts which fixes the luminaire to its support.

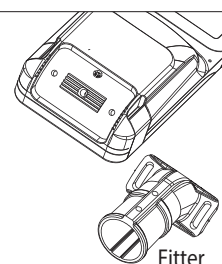
Adjustable tilt angle: $\pm 0-5-10-15^\circ$



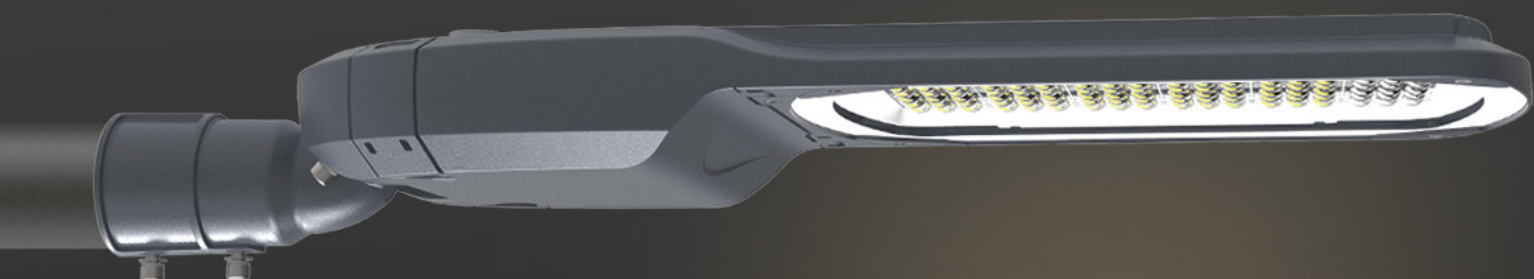
Horizontal Installation



Vertical Installation



Fitter



SAQR 2 STREET LIGHTING

Light up the way

High efficacy • Innovative • Durable

AREAS OF APPLICATION

URBAN & RESIDENTIAL STREETS
RAILWAYS & METRO STATIONS
BIKES & PEDESTRIAN AREAS
ROADS & MOTORWAYS
PARKING AREAS
HIGHWAYS
BRIDGES



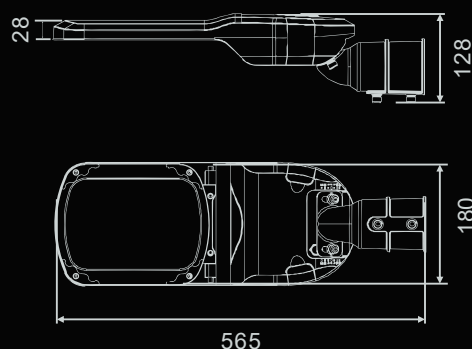
Products Benefits & Features

- Outstanding efficiency, achieving up to 180 lm/W.
- Saves 70% energy, offering a quick return on investment.
- Long lifespan of up to 100,000 hours at L70, minimizing maintenance costs.
- Features premium, globally recognized quality components.
- Driver box designed for tool-free access, simplifying maintenance.
- Durable high-grade aluminum housing with marine-grade stainless steel screws for reliable performance.
- Compatible with both horizontal and vertical mounting, adaptable to various light poles.
- Sleek appearance with a sturdy and long-lasting design.
- Quick and hassle-free installation process.
- Operates efficiently across a broad temperature range.
- Certified with IK10 and IP66 ratings for durability and protection.
- Simplified integration options for smart city applications.
- Available in a variety of optical configurations.
- Made with 95% recyclable materials, promoting sustainability.
- Backed by a 5-year warranty for peace of mind.

Dimensions

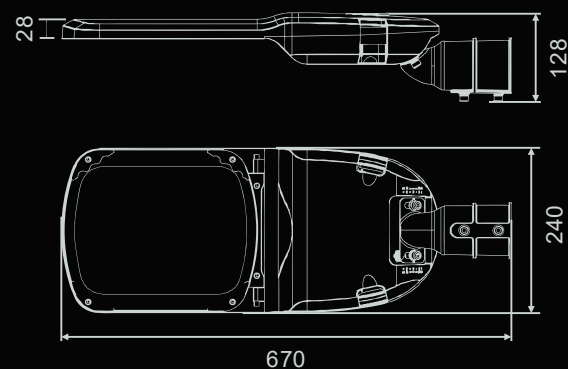
SAQR 2 MINI

Wattage: 30,50,60W
Dimensions: L565xW180xH128mm
Weight: 4kg



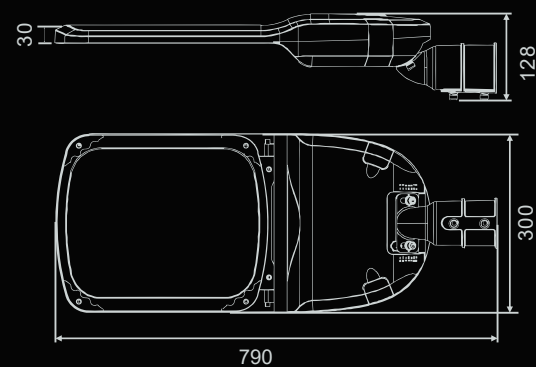
SAQR 2 MIDI

Wattage: 75,100,120W
Dimensions: L670xW240xH128mm
Weight: 5.8kg



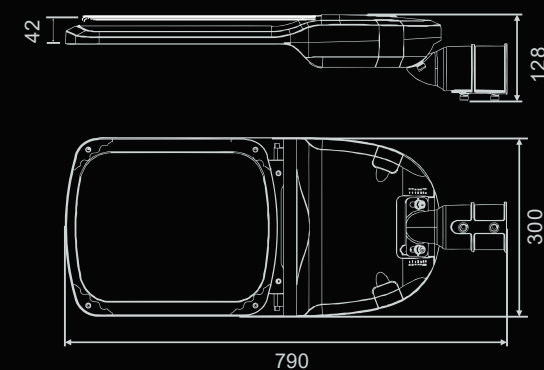
SAQR 2 MAXI

Wattage: 150,200W
Dimensions: L790xW300xH128mm
Weight: 7.5kg



SAQR 2 MEGA

Wattage: 240,300,320,350W
Dimensions: L790xW300xH128mm
Weight: 10.1kg





Product Datasheet

Product Range

| | SAQR 2 MINI 1.1 | SAQR 2 MINI 1.2 | SAQR 2 MINI 1.3 |
|---------------------|-----------------|-----------------|-----------------|
| Nominal Wattage (W) | 30W | 50W | 60W |
| Efficiency (lm/W) | 170lm/W | 170lm/W | 170lm/W |
| Lumen Output (lm) | 5100lm | 8500lm | 10200lm |

| | SAQR 2 MIDI 1.1 | SAQR 2 MIDI 1.2 | SAQR 2 MIDI 1.3 |
|---------------------|-----------------|-----------------|-----------------|
| Nominal Wattage (W) | 75W | 100W | 120W |
| Efficiency (lm/W) | 170lm/W | 170lm/W | 170lm/W |
| Lumen Output (lm) | 12750lm | 17000lm | 20400lm |

| | SAQR 2 MAXI 1.1 | SAQR 2 MAXI 1.2 |
|---------------------|-----------------|-----------------|
| Nominal Wattage (W) | 150W | 200W |
| Efficiency (lm/W) | 180lm/W | 180lm/W |
| Lumen Output (lm) | 27000lm | 36000lm |

| | SAQR 2 MEGA 1.1 | SAQR 2 MEGA 1.2 | SAQR 2 MEGA 1.3 | SAQR 2 MEGA 1.4 |
|---------------------|-----------------|-----------------|-----------------|-----------------|
| Nominal Wattage (W) | 240W | 300W | 320W | 350W |
| Efficiency (lm/W) | 180lm/W | 180lm/W | 180lm/W | 180lm/W |
| Lumen Output (lm) | 43200lm | 54000lm | 57600lm | 63000lm |

*Values are subject to ±5% tolerance.

Electrical Data

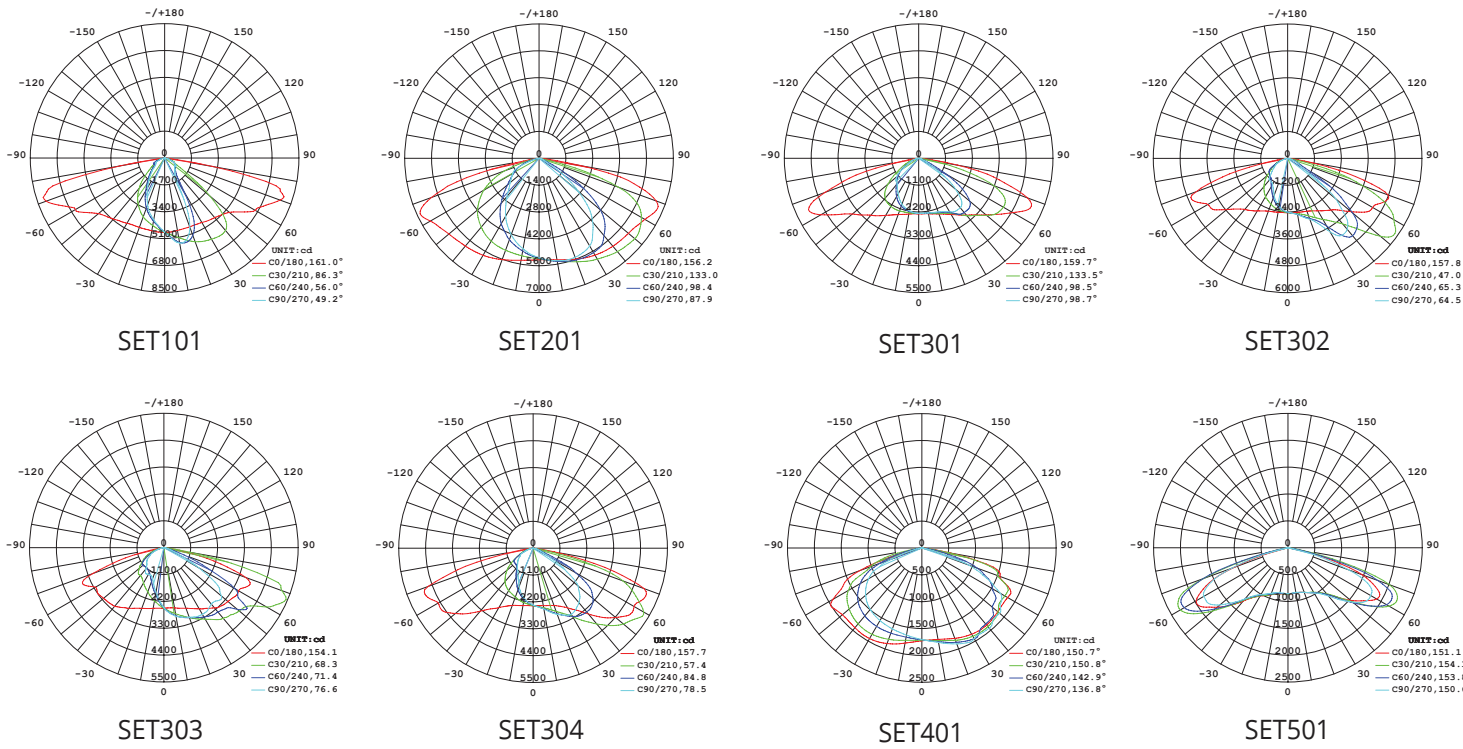
| | |
|--|--|
| Voltage (V) | 220-240VAC 50/60Hz |
| LED | Lumileds (Default) / Other brands (available on request) |
| Driver | Inventronics Osram (Default) / Other brands (available on request) |
| Power Factor (PF) | >0.95 |
| THD | <15 |
| Typical Leakage current | <5 mA |
| Surge protection (including LED indicator) | 10KV (Default) / 20KV (available on request) |
| Optics | SET101,SET201,SET301,SET302,SET303,SET304,SET401,SET501 |
| Standard Deviation of Color Matching | 3 SDCM / 5 SDCM |
| CRI | Ra> 70 (Default) / Ra>80 (available on request) |
| CCT (K) | 3000K,4000K,5000K,5700K |

General Data

| | |
|-----------------------------|--|
| Body Material | High Pressure Die-cast Aluminum powder coated |
| Housing Color | Light Grey (Default), Dark Grey / Other colors (available on request) |
| Cover Material | Clear tempered glass |
| Lens Material | UV-resistant Polycarbonate |
| Working Ambient Temperature | -40°C ~ +50°C, 10% ~ 95% RH |
| Lifespan L70 at 25° | >100,000 h |
| Mounting Type | Side entry or Vertical pole mounted 48,60 and 72mm |
| Dimmable | 1-10V Dimming (Default) / Timer dimming (available on request) |
| Protection Class | Class I (Default) / Class II (available on request) |
| Sealing | Gaskets |
| Screws | Stainless steel 316 marine grade |
| IP rating | IP66 |
| IK rating | IK10 (Housing) , IK08 (Diffuser) |
| Warranty | 5 years |
| Compliance testing | CB, LM79, LM80, LM82, LM84, TM-21, TM-28, THD, ISTMT, Corrosion test, 3-axis vibration test, Photobiological safety test, IP66, IK10 |
| Standards | RoHs, IECEE, IEC, EER |

Product Datasheet

Distributions



Optional accessories

Photocell



Ph

Shorting Cap



ShC

NEMA Socket (3/5/7 pin)



NS

Motion Sensor



MS

Smart Controller



SC

ORDERING CODE

SERIES NAME - PRODUCT RANGE - COLOR - SURGE PRT. - CRI - CCT - PRT. CLASS - OPTICS - ACCESSORIES

| | | | | | |
|--------|----------|----------------------|------------------------------|----------|---------------------|
| SAQR 2 | MINI I.1 | LG Light Grey I 10KV | 7 Ra>70 30 3000K I Class I | 1 SET101 | Ph PHOTOCCELL |
| | MINI I.2 | DG Dark Grey 2 20KV | 8 Ra>80 40 4000K II Class II | 2 SET201 | ShC SHORTING CAP |
| | MINI I.3 | | 50 5000K | 3 SET301 | NS NEMA SOCKET |
| | MIDI I.1 | | 57 5700K | 4 SET302 | MS MOTION SENSOR |
| | MIDI I.2 | | | 5 SET303 | SC SMART CONTROLLER |
| | MIDI I.3 | | | 6 SET304 | |
| | MAXI I.1 | | | 7 SET401 | |
| | MAXI I.2 | | | 8 SET501 | |
| | MEGA I.1 | | | | |
| | MEGA I.2 | | | | |
| | MEGA I.3 | | | | |
| | MEGA I.4 | | | | |

PHOTON FLOOD LIGHT



High efficacy • Innovative • Durable • Dark Sky • Low-glare

AREAS OF APPLICATION

RECREATIONAL SPORTS
CONTAINER TERMINAL
OUTDOOR STADIUM
RAILWAY STATION
INTERSECTION
RACE COURSE
AIRPORT
PARKING

Products Benefits & Features

- Modular design 400W/480W/600W/800W/960W/1200W/1500W/1800W.
- No backlight, no up-light and no spill light.
- Professional and unique optics options could effectively control glare and ensure the good uniformity.
- Adjustable bracket design obtains the best uniformity.
- Excellent anti-corrosion performance.
- Provided with 20KV surge protection devices.
- Excellent outlook, robust and durable design.
- Lifetime of more than 100,000 hours.
- Easy and fast installation.
- Wide temperature operating range.
- IK10, IP66
- Wide choice of optics.
- 95% of the material used are recyclable materials.
- 5 years warranty.

Dimensions

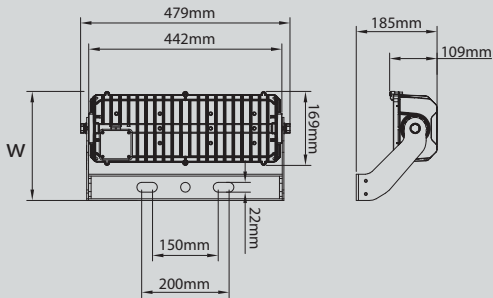
PHOTON MINI

Wattage Dimensions

| | |
|------|------------------|
| 400W | L479xW250xH185mm |
| 480W | L479xW266xH185mm |
| 600W | L479xW283xH185mm |

| Weight of the fixture | Weight of ON-OFF 0-10V driver | Weight of DALI driver |
|--------------------------|--|-----------------------------|
|--------------------------|--|-----------------------------|

| | | |
|-------|-------|-------|
| 6.3kg | 5.5kg | 5.5kg |
| 7.0kg | 5.5kg | 5.5kg |
| 7.8kg | 5.9kg | 5.9kg |



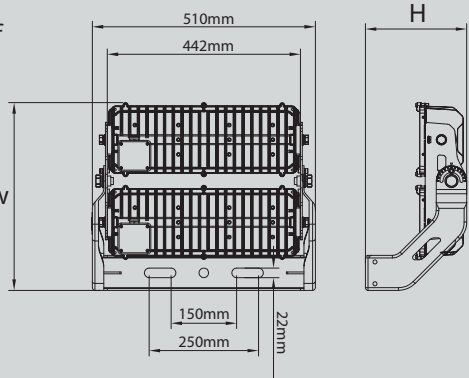
PHOTON MIDI

Wattage Dimensions

| | |
|-------|------------------|
| 800W | L510xW429xH232mm |
| 960W | L510xW527xH298mm |
| 1200W | L510xW560xH298mm |

| Weight of the fixture | Weight of ON-OFF 0-10V driver | Weight of DALI driver |
|--------------------------|--|-----------------------------|
|--------------------------|--|-----------------------------|

| | | |
|--------|--------|--------|
| 13.7kg | 10.8kg | 9.7kg |
| 16.4kg | 10.8kg | 9.7kg |
| 18.8kg | 6.6kg | 12.1kg |



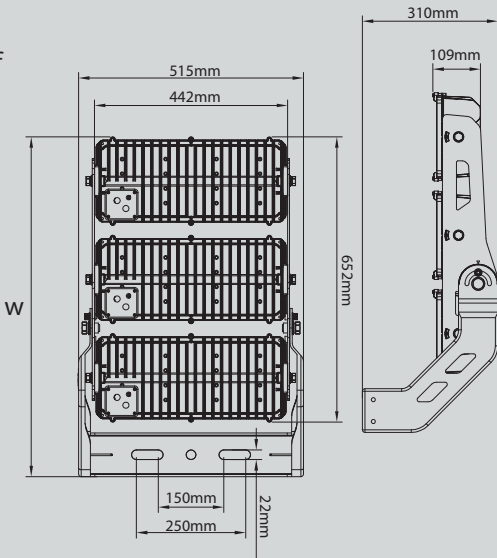
PHOTON MAXI

Wattage Dimensions

| | |
|-------|------------------|
| 1500W | L515xW777xH310mm |
| 1800W | L515xW833xH310mm |

| Weight of the fixture | Weight of ON-OFF 0-10V driver | Weight of DALI driver |
|--------------------------|--|-----------------------------|
|--------------------------|--|-----------------------------|

| | | |
|--------|--------|-----|
| 24.8kg | 12.5kg | 7kg |
| 28kg | 13.4kg | 7kg |





Product Datasheet

Using Samsung 5050 LED chip

Product Range

| | PHOTON MINI 1.1 | PHOTON MINI 1.2 | PHOTON MINI 1.3 |
|---------------------|-----------------|-----------------|-----------------|
| Nominal Wattage (W) | 400W | 480W | 600W |
| Efficiency (lm/W) | 150lm/W | 150lm/W | 150lm/W |
| Lumen Output (lm) | 60000lm | 72000lm | 90000lm |

| | PHOTON MIDI 1.1 | PHOTON MIDI 1.2 | PHOTON MIDI 1.3 |
|---------------------|-----------------|-----------------|-----------------|
| Nominal Wattage (W) | 800W | 960W | 1200W |
| Efficiency (lm/W) | 150lm/W | 150lm/W | 150lm/W |
| Lumen Output (lm) | 120000lm | 144000lm | 180000lm |

| | PHOTON MAXI 1.1 | PHOTON MAXI 1.2 |
|---------------------|-----------------|-----------------|
| Nominal Wattage (W) | 1500W | 1800W |
| Efficiency (lm/W) | 150lm/W | 150lm/W |
| Lumen Output (lm) | 225000lm | 270000lm |

*Values are subject to ±5% tolerance.

Electrical Data

| | |
|--|--|
| Input Voltage (Integrated driver) | DALI Version: 220-240VAC (400W to 1200W) 50/60Hz Dimming Version: 220-240VAC (400W to 960W) 50/60Hz 220-277VAC (1500W and 1800W)220-277VAC (1200W to 1800W) |
| LED | Samsung 5050 |
| Driver | Inventronics Osram (Default) / Other brands (available on request) |
| Power Factor (PF) | >0.95 |
| Surge protection (including LED indicator) | 20KV |
| CRI | Ra>70 (Default) / Ra>80, Ra>90 (available on request) |
| CCT (K) | 2200K,2700K,3000K,3500K,4000K,5000K,5700K,6500K |

*Driver is available integrated or remoted.

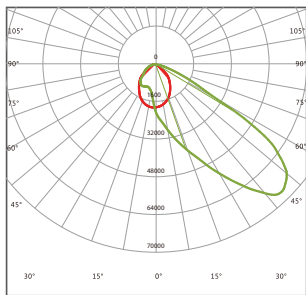
General Data

| | |
|-----------------------------|---|
| Body Material | Aluminum alloy |
| Housing Color | Black (RAL9017) |
| Cover Material | Tempered Glass |
| Lens Material | Polycarbonate |
| Working Ambient Temperature | -30°C ~ +50°C |
| Lifespan L70 at 25° | >100,000 h |
| Mounting Type | Bracket mounting |
| Driver Control | ON-OFF / 0-10V Dimming (Default) / DALI, DMX (available on request) |
| Protection Class | Class I |
| IP rating | IP66 |
| IK rating | IK10 |
| Warranty | 5 years |

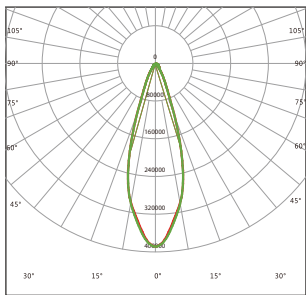
Product Datasheet

Using Samsung 5050 LED chip

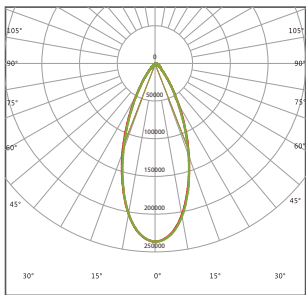
Distributions



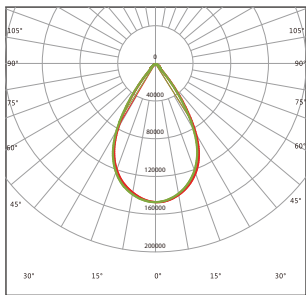
PE1
Type III very short
(35x100°, Tilt 40°)



PE2
30°



PE3
40°



PE4
60°

Optional accessories

Precision Aiming Device

Visor (For PE2,PE3,PE4)

Visor (For PE1)



PD



V1



V2

ORDERING CODE

SERIES NAME - PRODUCT RANGE - LED CHIP - COLOR - CRI - CCT - OPTICS - CONTROL - ACCESSORIES

| | | | | | | | | |
|--------|----------|--------------|---------|---------|----------|--------------|-----------|----------------------------|
| PHOTON | MINI I.1 | Samsung 5050 | B Black | 7 Ra>70 | 22 2200K | PE1 TYPE III | 1 ON-OFF | PD PRECISION AIMING DEVICE |
| | MINI I.2 | | | 8 Ra>80 | 27 2700K | PE2 30° | 2 0-10V | V1 VISOR I |
| | MINI I.3 | | | 9 Ra>90 | 30 3000K | PE3 45° | 3 DALI | V2 VISOR 2 |
| | MIDI I.1 | | | | 35 3500K | PE4 60° | 4 DMX/RDM | |
| | MIDI I.2 | | | | 40 4000K | | | |
| | MIDI I.3 | | | | 50 5000K | | | |
| | MAXI I.1 | | | | 57 5700K | | | |
| | MAXI I.2 | | | | 65 6500K | | | |



Product Datasheet

Using Osram 3737 LED chip

Product Range

| | PHOTON MINI 1.1 | PHOTON MINI 1.2 | PHOTON MINI 1.3 |
|---------------------|-----------------|-----------------|-----------------|
| Nominal Wattage (W) | 400W | 480W | 600W |
| Efficiency (lm/W) | 140lm/W | 140lm/W | 140lm/W |
| Lumen Output (lm) | 56,000lm | 67,200lm | 84,000lm |

| | PHOTON MIDI 1.1 | PHOTON MIDI 1.2 | PHOTON MIDI 1.3 |
|---------------------|-----------------|-----------------|-----------------|
| Nominal Wattage (W) | 800W | 960W | 1200W |
| Efficiency (lm/W) | 140lm/W | 140lm/W | 140lm/W |
| Lumen Output (lm) | 112,000lm | 134,400lm | 168,000lm |

| | PHOTON MAXI 1.1 | PHOTON MAXI 1.2 |
|---------------------|-----------------|-----------------|
| Nominal Wattage (W) | 1500W | 1800W |
| Efficiency (lm/W) | 140lm/W | 140lm/W |
| Lumen Output (lm) | 210,000lm | 252,000lm |

*Values are subject to ±5% tolerance.

Electrical Data

| | | | |
|--|---|--|---|
| Input Voltage (Integrated driver) | DALI Version: 220-240VAC (400W to 1200W) 50/60Hz 220-277VAC (1500W to 1800W) | | Dimming Version: 220-240VAC (400W to 960W) 50/60Hz 220-277VAC (1200W to 1800W) |
| LED | Osram 3737 | | |
| Driver | Inventronics Osram (Default) / Other brands (available on request) | | |
| Power Factor (PF) | >0.95 | | |
| Surge protection (including LED indicator) | 20KV | | |
| CRI | Ra>70 (Default) / Ra>80, Ra>90 (available on request) | | |
| CCT (K) | 3000K,3500K,4000K,4500K,5000K,5700K,6500K | | |

*Driver is available integrated or remotod.

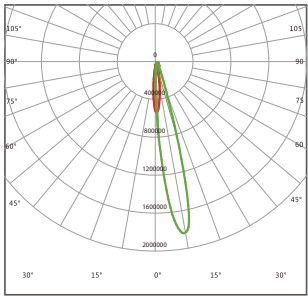
General Data

| | |
|-----------------------------|---|
| Body Material | Aluminum alloy |
| Housing Color | Black (RAL9017) |
| Cover Material | Tempered Glass |
| Lens Material | Polycarbonate |
| Working Ambient Temperature | -30°C ~ +50°C |
| Lifespan L70 at 25° | >100,000 h |
| Mounting Type | Bracket mounting |
| Driver Control | ON-OFF / 0-10V Dimming (Default) / DALI, DMX (available on request) |
| Protection Class | Class I |
| IP rating | IP66 |
| IK rating | IK10 |
| Warranty | 5 years |

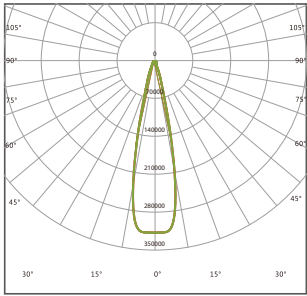
Product Datasheet

Using Osram 3737 LED chip

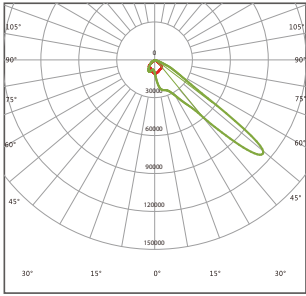
Distributions



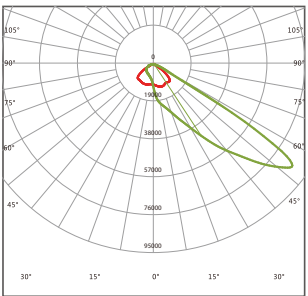
PE5
15°



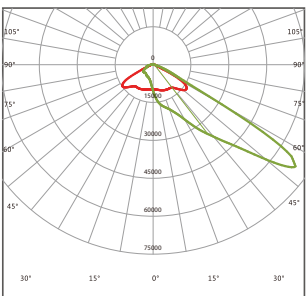
PE6
25°



PE7
60°



PE8
70°



PE9
75°

Optional accessories

Precision Aiming Device

Visor (For PE6,PE7)

Visor (For PE5,PE8,PE9)



PD



V1



V2

ORDERING CODE

| SERIES NAME - PRODUCT RANGE - LED CHIP - COLOR - CRI - CCT - OPTICS - CONTROL - ACCESSORIES | | | | | | | | |
|---|----------|------------|---------|---------|----------|---------|-----------|----------------------------|
| PHOTON | MINI I.1 | Osram 3737 | B Black | 7 Ra>70 | 30 3000K | PE5 15° | 1 ON-OFF | PD PRECISION AIMING DEVICE |
| | MINI I.2 | | | 8 Ra>80 | 35 3500K | PE6 25° | 2 0-10V | V1 VISOR 1 |
| | MINI I.3 | | | 9 Ra>90 | 40 4000K | PE7 60° | 3 DALI | V2 VISOR 2 |
| | MIDI I.1 | | | | 45 4500K | PE8 70° | 4 DMX/RDM | |
| | MIDI I.2 | | | | 50 5000K | PE9 75° | | |
| | MIDI I.3 | | | | 57 5700K | | | |
| | MAXI I.1 | | | | 65 6500K | | | |
| | MAXI I.2 | | | | | | | |



Al Bayt Stadium



FLOOD LIGHT SERIES

THAQAB SERIES



THAQAB
Floodlight 30-400W

REY SERIES



REY
Floodlight 20-300W

THAQAB SERIES



THAQAB series of projectors to be mounted on pole system, wall, floor. Available in several sizes, rotatable and inclinable on the vertical axis, they are designed for the lighting of parking lots, cycle paths, squares, façades, green areas, perimeter areas and other architectural elements in general thanks to a wide range of optics and wattages. It comes with a series of accessories that ensure different type of mounting.

Product Benefits:

- Up to 100, 000hrs @ L70, low maintenance cost.
- World class, approbated quality components (LEDs /Driver /etc.)
- Equipped with vent to avoid internal fogging and frosting.
- Wide choice of optics to suit more applications (asymmetrical and symmetrical)
- Buckle design makes it very easy for further maintenance.

IP66

IK08

220-240V

5 YRS
Warranty

30 - 400
WATTS

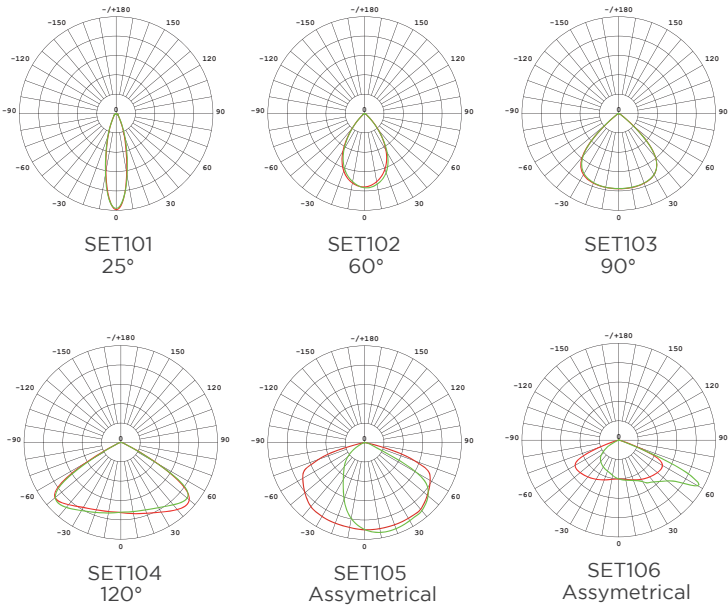
Upon request

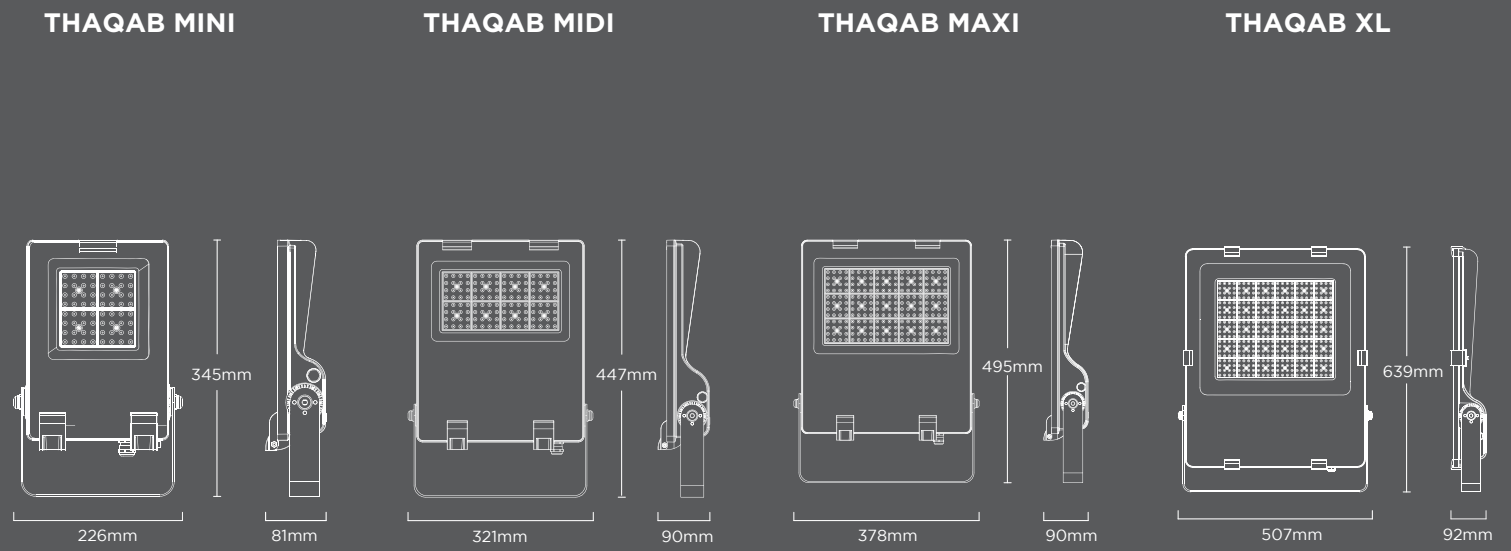
1-10V

DALI

| | |
|--------------------|---|
| PHYSICAL | |
| Body | High pressure die-cast aluminum |
| Finish | Grey (Default) /Black (available on request) |
| OPTICAL | |
| Optic | UV resistant PC |
| Light Distribution | 25°, 60°, 90°, 120° or Asymmetrical |
| Diffuser | Tempered glass |
| ELECTRICAL | |
| Light source | LED |
| CRI | >70 |
| CCT | 3000K,4000K,5000K,5700K |
| Driver | Electronic included 50-60Hz 220-240VAC 1-10V dimming or DALI on request |
| Protection | Class I/II |
| Ambient Temp. | -40°C ~ 50°C |
| Ambient Humidity | 10% - 90% |

AVAILABLE OPTICS





| PRODUCT RANGE | | | |
|---------------|----------------|-----------|-----------------|
| | Rated Power(W) | Lumen(lm) | Dimensions(mm) |
| THAQAB MINI 1 | 30W | 4650lm | L226xW81xH345mm |
| THAQAB MINI 2 | 40W | 6000lm | L226xW81xH345mm |
| THAQAB MINI 3 | 50W | 7000lm | L226xW81xH345mm |
| THAQAB MIDI 1 | 60W | 9900lm | L321xW90xH447mm |
| THAQAB MIDI 2 | 80W | 12800lm | L321xW90xH447mm |
| THAQAB MIDI 3 | 100W | 14500lm | L321xW90xH447mm |
| THAQAB MIDI 4 | 120W | 17400lm | L321xW90xH447mm |
| THAQAB MAXI 1 | 150W | 24000lm | L378xW90xH495mm |
| THAQAB MAXI 2 | 180W | 27900lm | L378xW90xH495mm |
| THAQAB MAXI 3 | 200W | 29000lm | L378xW90xH495mm |
| THAQAB MAXI 4 | 240W | 33600lm | L378xW90xH495mm |
| THAQAB XL 1 | 320W | 51200lm | L378xW90xH495mm |
| THAQAB XL 2 | 400W | 60000lm | L378xW90xH495mm |

ORDERING CODE

| SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL - ACCESSORIES | | | | | |
|--|--------|----------|---------------------|----------|--------------------------|
| THAQAB | MINI 1 | 30 3000K | SET101 25° | 1 ON-OFF | NA NO ACCESSORIES |
| | MINI 2 | 40 4000K | SET102 60° | 2 1-10V | PH PHOTOCELL |
| | MINI 3 | 50 5000K | SET103 90° | 3 DALI | PS PIR SENSOR |
| | MIDI 1 | 57 5700K | SET104 120° | | SM SMART CONTROLLER |
| | MIDI 2 | | SET105 Assymetrical | | PA POLE ADAPTER |
| | MIDI 3 | | SET106 Assymetrical | | CB CLight source BRACKET |
| | MIDI 4 | | | | MA MOUNTING ARM |
| | MAXI 1 | | | | ES EXTRA 10KV |
| | MAXI 2 | | | | |
| | MAXI 3 | | | | |
| | MAXI 4 | | | | |
| | XL 1 | | | | |
| | XL 2 | | | | |

ACCESSORIES



REY FLOODLIGHT



REY FLOODLIGHT is a series of projectors to be mounted on poles, walls, and surface. Available in several sizes, tiltable on the vertical axis, they are designed for the lighting of parking lots, cycle paths, squares, façades, green areas, perimeter areas and other architectural elements in general thanks to a wide range of optics and wattages. This high-efficiency LED luminaire delivers exceptional performance with a luminous efficacy of 160-170 lm/W, ensuring superior energy savings and bright illumination. Built to withstand 1,000 hours of 3G vibration, it meets rigorous durability standards. It features an optional C4 anti-corrosion aluminum body, making it suitable for harsh and corrosive environments. With integrated 10KV surge protection and an easy-maintenance design, this luminaire ensures reliability, safety, and reduced downtime, making it ideal for industrial and outdoor applications.

IP66

IK08

220-240V

5 YRS
Warranty

20 - 300
WATTS

Upon request

0-10V

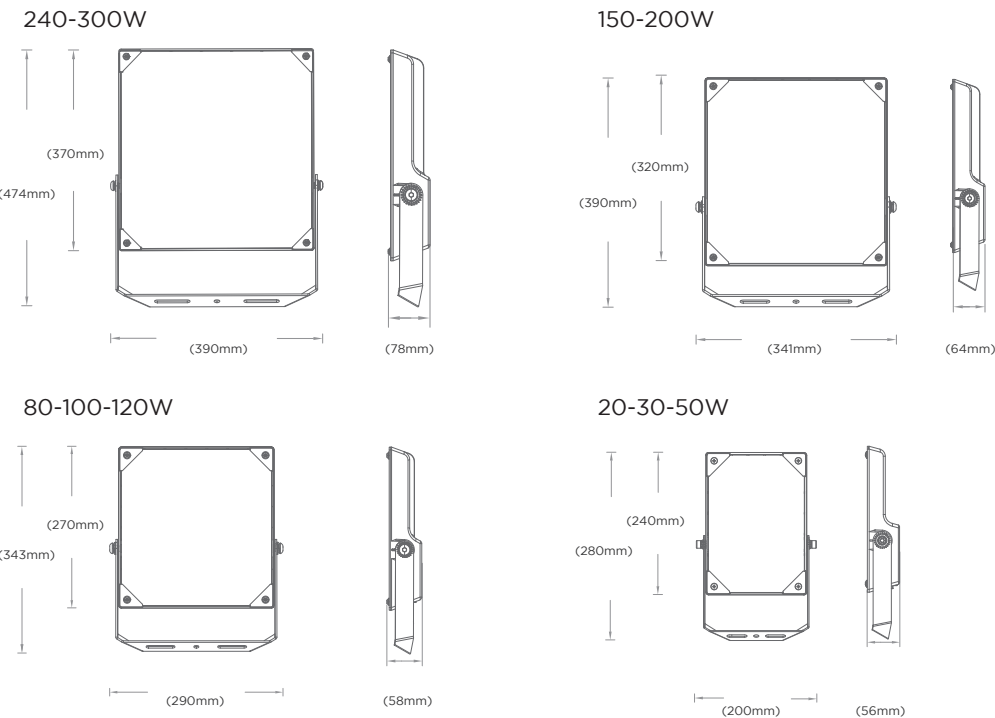
DALI

| PHYSICAL | |
|---------------------|--|
| Body | Die cast Aluminum |
| Screws | Stainless steel |
| Finish | Powder coated Black color |
| Mounting | U Bracket |
| OPTICAL | |
| Beam angle | 30°,60°,90°,50x100°,110° |
| Lens | PMMA (UV-resistant Polycarbonate) |
| Diffuser | Tempered Glass |
| CRI | >80 |
| ELECTRICAL | |
| Light source | LED Lumileds |
| CCT | 2700K, 3000K, 3500K, 4000K, 5000K, 6500K |
| Driver | Integrated LED driver 220-240V 50/60Hz |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% - 90% |
| Lifespan L80 at 25° | 100,000 h |

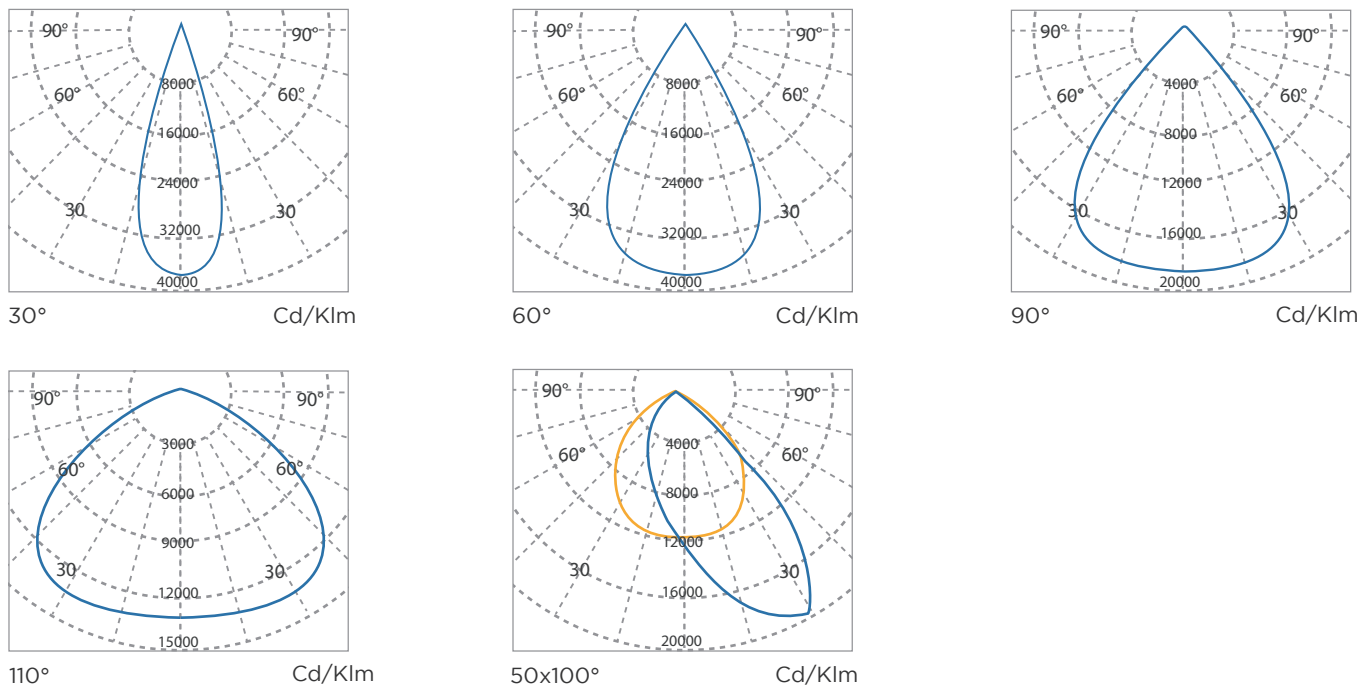
| Series | Power (W) | Lumen (lm) | Dimensions (mm) |
|---------|-----------|------------|-----------------|
| REY 1.1 | 20W | 3200lm | L200xW56xH280mm |
| REY 1.2 | 30W | 4800lm | L200xW56xH280mm |
| REY 1.3 | 50W | 8000lm | L200xW56xH280mm |
| REY 2.1 | 80W | 12800lm | L290xW58xH343mm |
| REY 2.2 | 100W | 16000lm | L290xW58xH343mm |
| REY 2.3 | 120W | 19200lm | L290xW58xH343mm |
| REY 3.1 | 150W | 24000lm | L341xW64xH390mm |
| REY 3.2 | 200W | 32000lm | L341xW64xH390mm |
| REY 4.1 | 240W | 38400lm | L390xW78xH474mm |
| REY 4.2 | 300W | 48000lm | L390xW78xH474mm |

*Values are subject to ±5% tolerance.

TECHNICAL DRAWING



AVAILABLE OPTICS



ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL

| | | | | |
|-----|-----|----------|----------------|----------|
| REY | 1.1 | 27 2700K | 30 30° | 1 ON-OFF |
| | 1.2 | 30 3000K | 60 60° | 2 0-10V |
| | 1.3 | 35 3500K | 90 90° | 3 DALI |
| | 2.1 | 40 4000K | 50 100 50x100° | |
| | 2.2 | 50 5000K | 110 110° | |
| | 2.3 | 65 6500K | | |
| | 3.1 | | | |
| | 3.2 | | | |
| | 4.1 | | | |
| | 4.2 | | | |



BOLLARDS/POLES SERIES



BOLLARDS SERIES



BEND BOLLARD (Mono)
10/20W



BEND BOLLARD (Dual)
20/40W



EDGE OPEN BOLLARD
20W



EDGE CLOSED BOLLARD
20W



PATTERN BOLLARD
10/20W



QUADRANT BOLLARD
10/20W



ORBIT BOLLARD
10/20W



SWEEP BOLLARD
14/24W



EQUILIBRIUM BOLLARD
15/25W



GLOBO BOLLARD
14/25W



SIGNAL BOLLARD
15/25W



PRISM BOLLARD
10W



PINNACLE BOLLARD
12W



CAPORA BOLLARD
7-15W



VALORA BOLLARD
7W

BEND BOLLARD (Mono)



| | | | | |
|------|------|----------|-------------------|----------------|
| IP66 | IK09 | 220-240V | 5 YRS Warranty | 10/20 WATTS |
|------|------|----------|-------------------|----------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|------------|---------------------------|
| Body | Aluminum Extruded Profile |
| Finish | Polyester Powder Coated |
| Dimensions | L180xW170xH1000mm |

OPTICAL

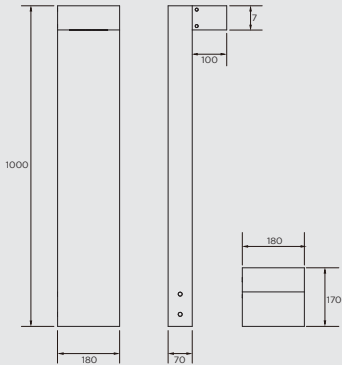
| | |
|--------------------|---------------------|
| Diffuser | Clear Polycarbonate |
| Light distribution | Assymetric |

ELECTRICAL

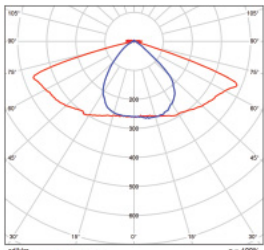
| | |
|-----------------------|---|
| Light source | LED |
| CRI | >80 |
| CCT | 3000K-4000K-5000K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -40°C ~ +50°C |
| Humidity | 10% ~ 90%RH |

BEND BOLLARD series is an L-shaped bollard design that represents a functional and aesthetically pleasing solution in urban architecture and infrastructure. This bollard has front and side asymmetrical light distribution, with an extruded aluminum body.

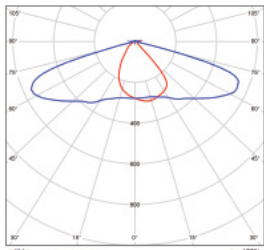
- Simple design that blends in with different types of architecture applications such as pathways, landscape areas, and other public spaces.
- Single or double head options.



AVAILABLE OPTICS



Front light emission



Side light emission

ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL

| | | | |
|--------------|---|------------------|----------|
| BEND BOLLARD | 1 | 30 3000K F FRONT | 1 ON-OFF |
| MONO | 2 | 40 4000K S SIDE | 2 1-10V |
| | | 50 5000K | 3 DALI |

BEND BOLLARD (Dual)



| | | | | |
|------|------|----------|-------------------|----------------|
| IP66 | IK09 | 220-240V | 5 YRS Warranty | 20/40 WATTS |
|------|------|----------|-------------------|----------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|------------|---------------------------|
| Body | Aluminum Extruded Profile |
| Finish | Polyester Powder Coated |
| Dimensions | L180xW270xH1000mm |

OPTICAL

| | |
|--------------------|---------------------|
| Diffuser | Clear Polycarbonate |
| Light distribution | Assymetric |

ELECTRICAL

| | |
|-----------------------|---|
| Light source | LED |
| CRI | >80 |
| CCT | 3000K-4000K-5000K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -40°C ~ +50°C |
| Humidity | 10% ~ 90%RH |

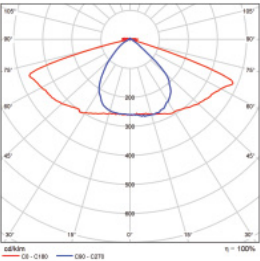
BEND BOLLARD series is an L-shaped bollard design that represents a functional and aesthetically pleasing solution in urban architecture and infrastructure. This bollard has front and side asymmetrical light distribution, with an extruded aluminum body.

- Simple design that blends in with different types of architecture applications such as pathways, landscape areas, and other public spaces.
- Single or double head options.

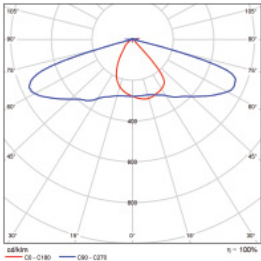


| Range | Power(W) | Front light emission lumen(lm) | Side light emission lumen(lm) |
|-------------|----------|--------------------------------|-------------------------------|
| BEND DUAL 1 | 20W | 2x1112.5lm | 2x980lm |
| BEND DUAL 2 | 40W | 2x2225lm | 2x1960lm |

AVAILABLE OPTICS



Front light emission



Side light emission

ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL

| | | | | |
|--------------|---|----------|---------|----------|
| BEND BOLLARD | 1 | 30 3000K | F FRONT | 1 ON-OFF |
| DUAL | 2 | 40 4000K | S SIDE | 2 1-10V |
| | | 50 5000K | | 3 DALI |



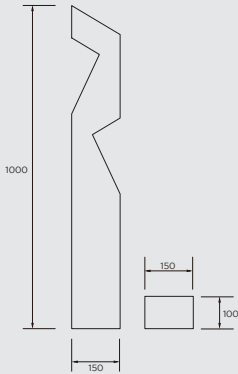


EDGE OPEN BOLLARD



EDGE OPEN series is a distinctive bollard design that provides vibrant illumination for pathways, landscape zones, and various public areas.

- Reduced glare through a concealed light source.
- Enhanced linear forward light distribution option with complete cut-off and minimized stray light.
- Simple installation and maintenance.
- Contemporary and refined design that adds a distinctive touch to outdoor applications.



ORDERING CODE

SERIES NAME - CCT - CONTROL

EDGE OPEN 30 3000K 1 ON-OFF
BOLLARD 40 4000K 2 1-10V
50 5000K 3 DALI

| | | | | |
|------|------|----------|-------------------|-------------|
| IP67 | IK08 | 220-240V | 5 YRS Warranty | 20 WATTS |
|------|------|----------|-------------------|-------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

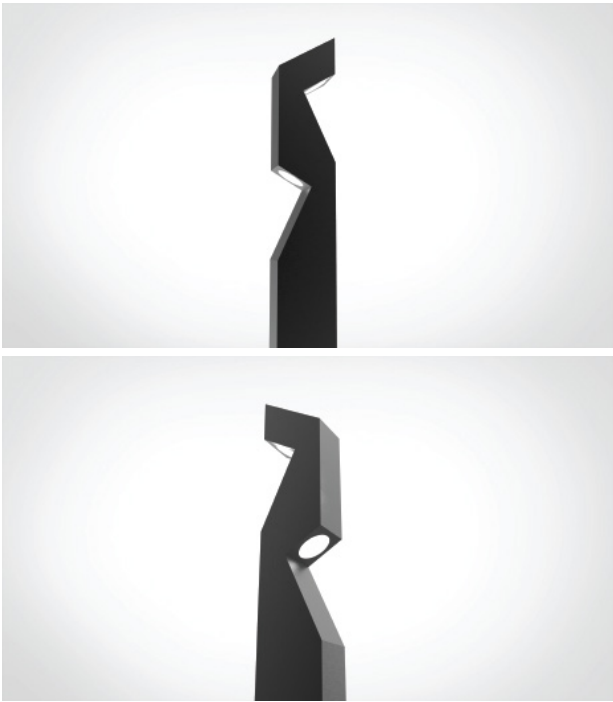
| | |
|------------|---------------------------|
| Body | Aluminum Extruded Profile |
| Finish | Polyester Powder Coated |
| Dimensions | L100xW150xH1000mm |

OPTICAL

| | |
|----------------|-----------------------------|
| Diffuser | Clear/Opal Polycarbonate |
| Light Emission | Indirect Light Distribution |

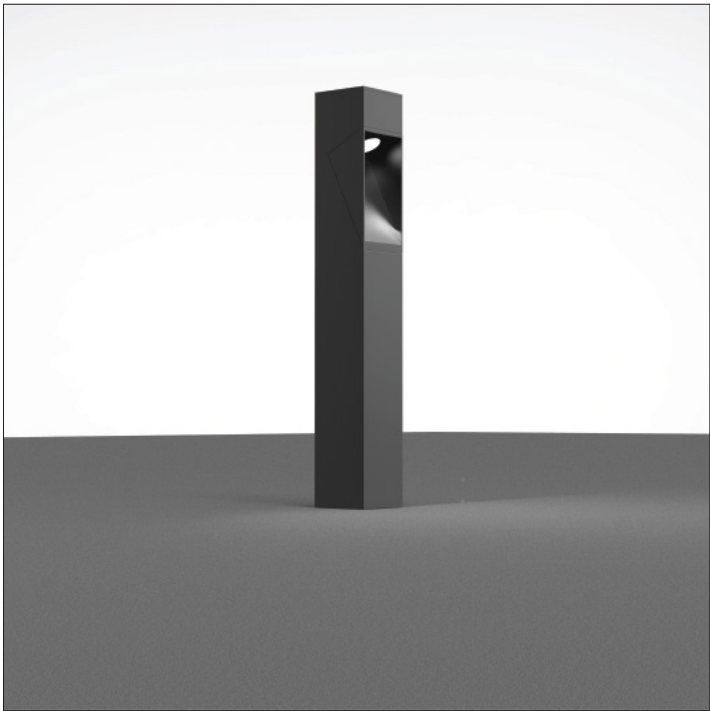
ELECTRICAL

| | |
|-----------------------|---|
| Light source | LED |
| Power | 2x10W |
| Light source lumen | 2x1200lm |
| CRI | >80 |
| CCT | 3000K-4000K-5000K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -40°C ~ +50°C |
| Humidity | 10% ~ 90%RH |





EDGE CLOSED BOLLARD



IP67

IK08

220-240V

5 YRS
Warranty

20
WATTS

Upon request

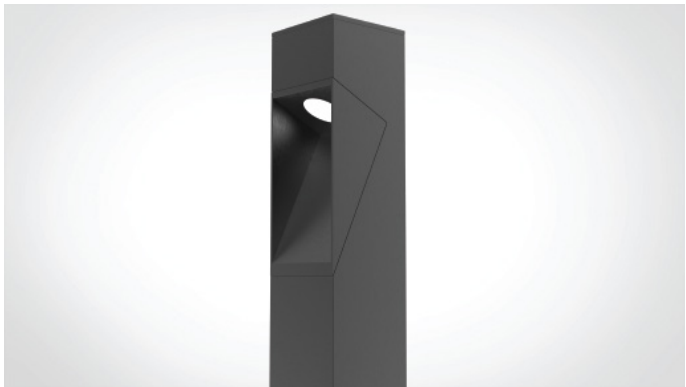
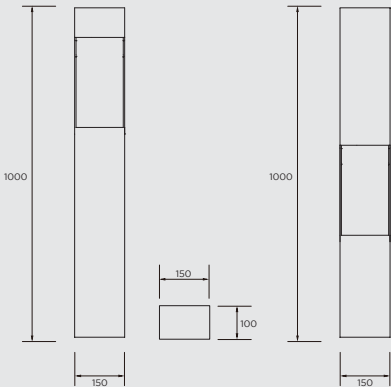
1-10V

DALI

| | |
|-----------------------|---|
| PHYSICAL | |
| Body | Aluminum Extruded Profile |
| Finish | Polyester Powder Coated |
| Dimensions | L100xW150xH1000mm |
| OPTICAL | |
| Diffuser | Clear Polycarbonate |
| Light Emission | Indirect Light Distribution |
| ELECTRICAL | |
| Light source | LED |
| Power | 2x10W |
| Light source lumen | 2x1200lm |
| CRI | >80 |
| CCT | 3000K-4000K-5000K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -40°C ~ +50°C |
| Humidity | 10% ~ 90%RH |

EDGE CLOSED series is a distinctive design that provides vibrant illumination for pathways, landscape zones, and various public areas.

- Reduced glare through a concealed light source.
- Enhanced linear forward light distribution option with complete cut-off and minimized stray light.
- Simple installation and maintenance.
- Contemporary and refined design that adds a distinctive touch to outdoor applications.

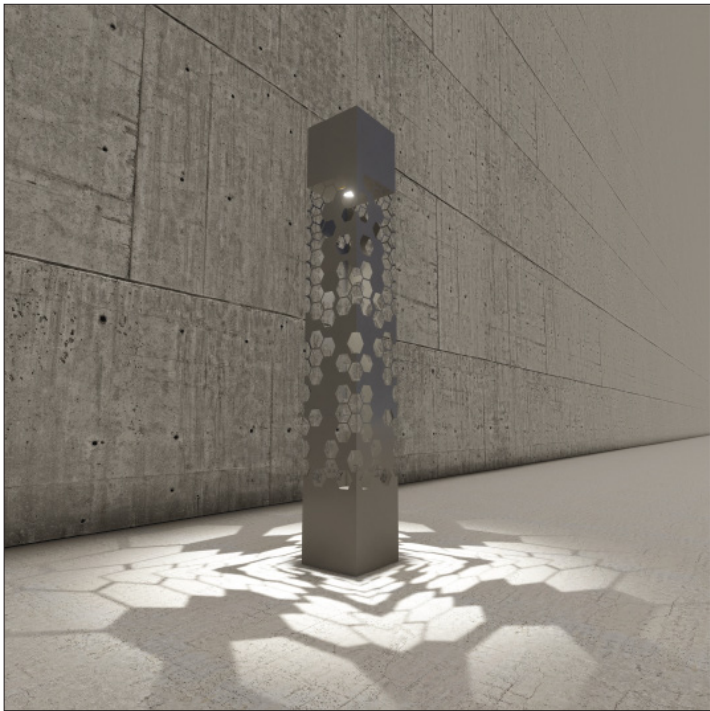


ORDERING CODE

SERIES NAME - CCT - CONTROL

EDGE CLOSED 30 3000K 1 ON-OFF
BOLLARD 40 4000K 2 1-10V
50 5000K 3 DALI

PATTERN BOLLARD



PATTERN series of bollards is a special bollard with unique reflections, distinguished by its square form factor, captivating light effects, and robust construction, **PATTERN** bollard is a great choice for illuminating pathways, landscaped areas, and various public spaces.

- Optimized symmetrical uniform light distribution with a unique effect.
- Features a minimalistic design, allowing seamless integration with diverse architectural styles.
- Sophisticated and decorative pattern on 4 sides.
- Easy installation and maintenance.

ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - CONTROL

| | | | |
|-----------------|---|----------|----------|
| PATTERN BOLLARD | 1 | 30 3000K | 1 ON-OFF |
| | 2 | 40 4000K | 2 1-10V |
| | | 50 5000K | 3 DALI |

| | | | | |
|------|------|----------|-------------------|----------------|
| IP67 | IK08 | 220-240V | 5 YRS Warranty | 10/20 WATTS |
|------|------|----------|-------------------|----------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|------------|---------------------------|
| Body | Aluminum Extruded Profile |
| Finish | Polyester Powder Coated |
| Dimensions | L150xW150xH1000mm |

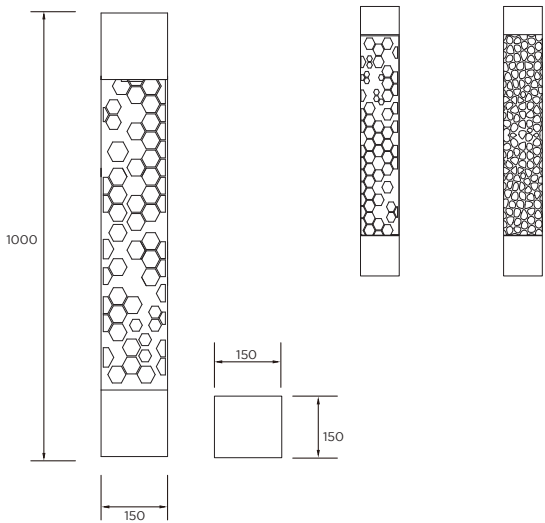
OPTICAL

| | |
|----------------|-----------------------------|
| Diffuser | Opal Polycarbonate |
| Light Emission | Indirect Light Distribution |

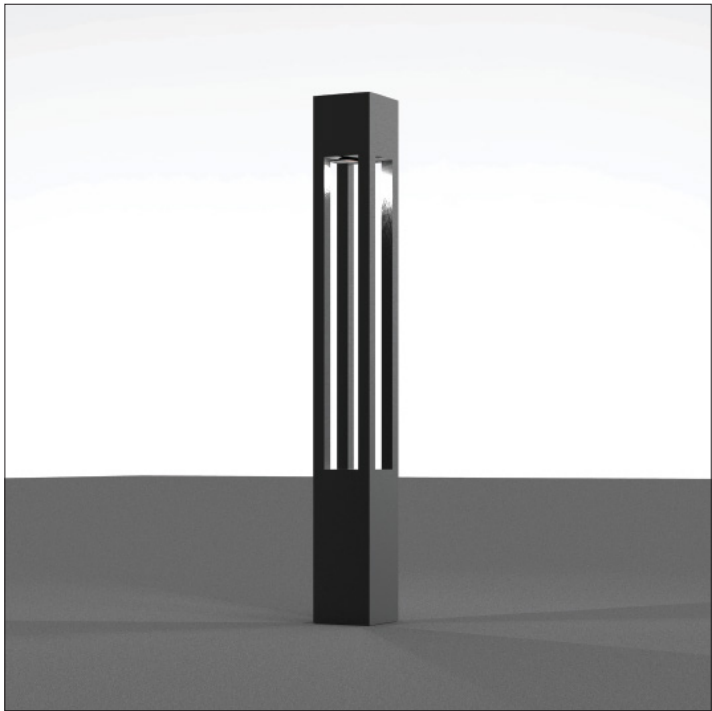
ELECTRICAL

| | |
|-----------------------|---|
| Light source | LED |
| Light source lumen | 1200lm |
| CRI | >80 |
| CCT | 3000K-4000K-5000K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -40°C ~ +50°C |
| Humidity | 10% - 90%RH |

CUSTOMIZABLE PATTERNS



QUADRANT BOLLARD



| | | | | |
|------|------|----------|-------------------|----------------|
| IP67 | IK08 | 220-240V | 5 YRS Warranty | 10/20 WATTS |
|------|------|----------|-------------------|----------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|------------|---------------------------|
| Body | Aluminum Extruded Profile |
| Finish | Polyester Powder Coated |
| Dimensions | L120xW120xH1000mm |
| | L135xW135xH1000mm |

OPTICAL

| | |
|----------------|-----------------------------|
| Diffuser | Opal Polycarbonate |
| Light Emission | Indirect Light Distribution |

ELECTRICAL

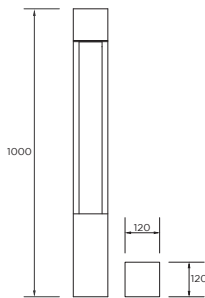
| | |
|-----------------------|---|
| Light source | LED |
| CRI | >80 |
| CCT | 3000K-4000K-5000K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -40°C ~ +50°C |
| Humidity | 10% - 90%RH |

QUADRANT BOLLARD series stands out as a dependable option for pathways, landscaped areas, and various public spaces, featuring a square frame, complementary column choices, and a four-way light distribution.

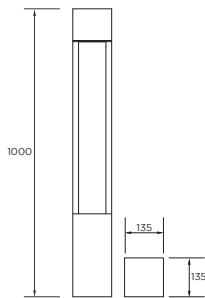
- Glare is effectively minimized through a concealed light source.
- The 4 way light distribution not only efficiently illuminates pathways and areas but also introduces a distinctive visual effect.
- Various height options and a coordinating column make it suitable for high-end architectural projects.
- Its minimalistic design ensures seamless integration with diverse architectural styles.
- The bollard is characterized by easy installation and maintenance.

| Range | Power(W) | Lumen (lm) |
|------------|----------|------------|
| QUADRANT 1 | 10W | 1200lm |
| QUADRANT 2 | 20W | 2400lm |

Quadrant 1



Quadrant 2



ORDERING CODE

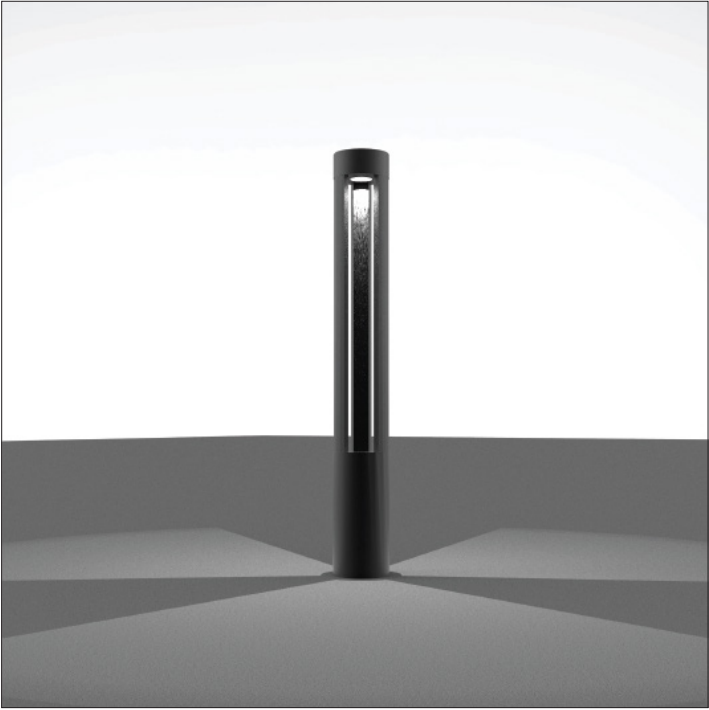
SERIES NAME - PRODUCT RANGE - DIMENSIONS - CCT - CONTROL

| | | | | |
|----------|---|------------|----------|----------|
| QUADRANT | I | I TYPE I | 30 3000K | 1 ON-OFF |
| BOLLARD | 2 | II TYPE II | 40 4000K | 2 1-10V |
| | | | 50 5000K | 3 DALI |



Palm bollard.

ORBIT BOLLARD



ORBIT BOLLARD series stands out as a dependable option for pathways, landscaped areas, and various public spaces, thanks to its rounded structure, diverse column choices, and three-way light distribution.

- Reduced glare is achieved through a recessed light source.
- The three-way light distribution not only effectively illuminates pathways and areas but also introduces a distinctive visual effect.
- Various height options and a coordinating column make it suitable for high-end architectural projects.
- Its minimalistic design ensures seamless integration with diverse architectural styles.

ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - CONTROL

| | | | |
|---------------|---|----------|----------|
| ORBIT BOLLARD | 1 | 30 3000K | 1 ON-OFF |
| | 2 | 40 4000K | 2 1-10V |
| | | 50 5000K | 3 DALI |

| | | | | |
|------|------|----------|-------------------|----------------|
| IP67 | IK09 | 220-240V | 5 YRS Warranty | 10/20 WATTS |
|------|------|----------|-------------------|----------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|------------|---------------------------|
| Body | Aluminum Extruded Profile |
| Finish | Polyester Powder Coated |
| Dimensions | Ø133xH1000mm |

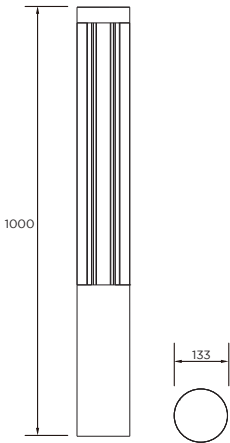
OPTICAL

| | |
|--------------------|---------------------|
| Diffuser | Clear Polycarbonate |
| Light distribution | Assymetric |

ELECTRICAL

| | |
|-----------------------|---|
| Light source | LED |
| CRI | >80 |
| CCT | 3000K-4000K-5000K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -40°C ~ +50°C |
| Humidity | 10% - 90%RH |

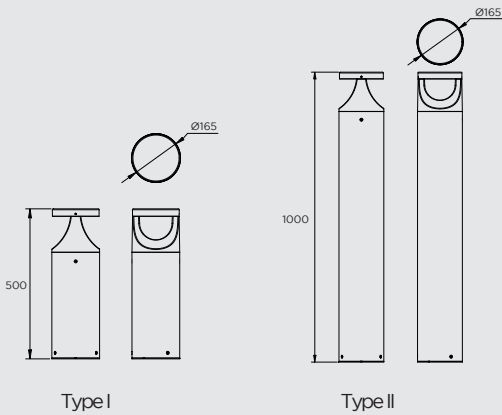
| Range | Power(W) | Lumen (lm) |
|---------|----------|------------|
| ORBIT 1 | 10W | 1200lm |
| ORBIT 2 | 20W | 2400lm |



SWEEP BOLLARD



SWEEP BOLLARD series is a sturdy and effective bollard light featuring an elegant design. This modern, architecturally styled fixture offers consistent and superior illumination, aiming to improve the aesthetic appeal of urban areas with its attractive visual presentation.



ORDERING CODE

SERIES NAME - PRODUCT RANGE - HEIGHT - CCT - OPTICS - CONTROL

SWEEP BOLLARD

I
2

I TYPE I
II TYPE II

30 3000K
40 4000K
50 5000K

I TYPE V
2 TYPE IV

1 ON-OFF
2 1-10V
3 DALI

ACCESSORIES



Round House Side Shield

| | | | | |
|--------------|------|----------|-------------------|----------------|
| IP66 | IK09 | 220-240V | 5 YRS Warranty | 14/24 WATTS |
| Upon request | | | | |
| 1-10V | DALI | | | |

PHYSICAL

| | |
|------------|--|
| Body | Aluminum Extruded Profile |
| Finish | Polyester Powder Coated |
| Dimensions | Type I: Ø165xH500mm Type II: Ø165xH1000mm |

OPTICAL

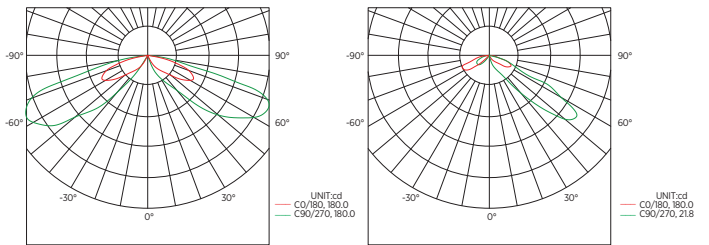
| | |
|--------------------|---------------------|
| Diffuser | Clear Polycarbonate |
| Light distribution | Assymetric |

ELECTRICAL

| | |
|-----------------------|---|
| Light source | LED |
| CRI | >80 |
| CCT | 3000K-4000K-5000K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -30°C ~ +50°C |
| Humidity | 10% ~ 90%RH |

| Range | Power(W) | Lumen (lm) |
|---------|----------|------------|
| SWEEP 1 | 14W | 1190lm |
| SWEEP 2 | 24W | 1920lm |

AVAILABLE OPTICS



TYPE V

TYPE IV

EQUILIBRIUM BOLLARD



| | | | | |
|------|------|----------|-------------------|----------------|
| IP66 | IK10 | 220-240V | 5 YRS Warranty | 15/25 WATTS |
|------|------|----------|-------------------|----------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|------------|--|
| Body | Die-casting aluminum |
| Finish | Polyester Powder Coated |
| Dimensions | Type I: Ø135xH500mm Type II: Ø135xH1000mm |

OPTICAL

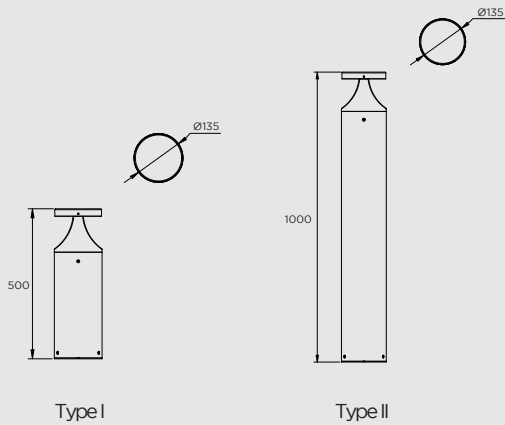
| | |
|--------------------|---------------------|
| Diffuser | Clear Polycarbonate |
| Light distribution | Assymetric |

ELECTRICAL

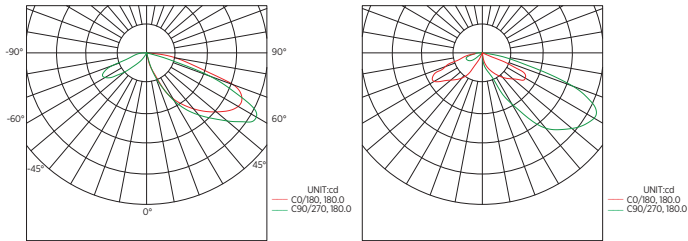
| | |
|-----------------------|---|
| Light source | LED |
| CRI | >80 |
| CCT | 3000K-4000K-5000K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -20°C ~ + 45°C |
| Humidity | 10% ~ 90%RH |

| Range | Power(W) | Lumen (lm) |
|---------------|----------|------------|
| EQUILIBRIUM 1 | 15W | 1500lm |
| EQUILIBRIUM 2 | 25W | 2500lm |

EQUILIBRIUM BOLLARD series not only showcases the exquisite art of light but also maximizes the utilization of lumens by ensuring that no front projection light is blocked. The fixture boasts a refined and polished body, exuding an air of sophistication. Additionally, the design incorporates a discreet approach with no exposed screws, contributing to its overall sleek and elegant appearance.



AVAILABLE OPTICS



TYPE V

TYPE IV

ORDERING CODE

SERIES NAME - PRODUCT RANGE - HEIGHT - CCT - OPTICS - CONTROL

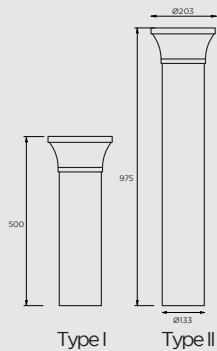
| | | | | | |
|---------------------|--------|------------------------|----------------------------------|-----------------------|-------------------------------|
| EQUILIBRIUM BOLLARD | I 2 | I TYPE I II TYPE II | 30 3000K 40 4000K 50 5000K | I TYPE V 2 TYPE IV | 1 ON-OFF 2 1-10V 3 DALI |
|---------------------|--------|------------------------|----------------------------------|-----------------------|-------------------------------|

GLOBO BOLLARD



GLOBO BOLLARD series serves as an exceptional luminaire for urban settings, suitable for both new construction projects and retrofit applications. This versatile bollard light is available in heights of 0.5M and 1M.

- 360° Coverage and visual comfort.
- High lumen output efficiency, up to 130lm/W.
- The housing is made of 100% aluminum alloy.
- Outdoor powder coating for anti-corrosion.
- Easy to maintain.
- Robust design with IK10 protection.



| | | | | |
|------|------|----------|-------------------|----------------|
| IP66 | IK10 | 220-240V | 5 YRS Warranty | 14/25 WATTS |
|------|------|----------|-------------------|----------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|------------|---|
| Body | Aluminum alloy |
| Finish | Powder Coated |
| Dimensions | Type I: Ø133xH500mm Type II: Ø133xH975mm |

OPTICAL

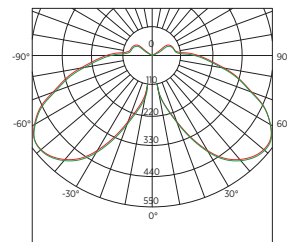
| | |
|--------------------|--|
| Diffuser | Clear Polycarbonate (Milky PC cover available) |
| Light distribution | Assymetric |

ELECTRICAL

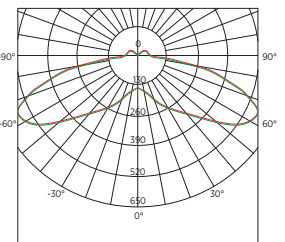
| | |
|-----------------------|---|
| Light source | LED |
| CRI | >80 |
| CCT | 3000K-4000K-5000K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -30°C ~ + 45°C |
| Humidity | 10% ~ 90%RH |

| Range | Power(W) | Lumen(lm) MILKY PC COVER | Lumen(lm) CLEAR OPTIC LENS |
|---------|----------|--------------------------------|----------------------------------|
| GLOBO 1 | 14W | 1400lm | 1820lm |
| GLOBO 2 | 25W | 2500lm | 3250lm |

AVAILABLE OPTICS



MILKY PC COVER
LOW GLARE



CLEAR OPTIC
LENS

ORDERING CODE

SERIES NAME - PRODUCT RANGE - HEIGHT - CCT - OPTICS - CONTROL

GLOBO BOLLARD I 1 TYPE I 30 3000K M MILKY 1 ON-OFF
2 II TYPE II 40 4000K C CLEAR 2 1-10V
3 50 5000K 3 DALI

SIGNAL BOLLARD



IP65

IK09

220-240V

5 YRS
Warranty

15/25
WATTS

Upon request

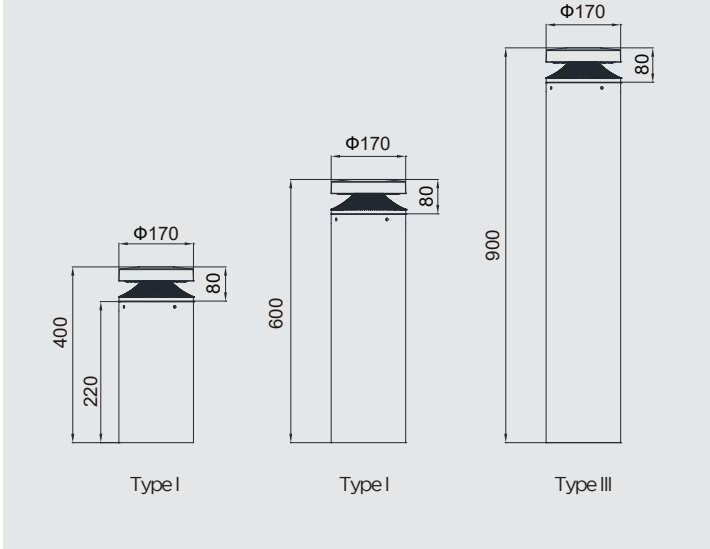
1-10V

DALI

| | |
|-----------------------|---|
| PHYSICAL | |
| Body | Die-cast Aluminum |
| Finish | Powder Coated |
| Dimensions | Type I: Ø170xH400mm |
| | Type II: Ø170xH600mm |
| | Type III: Ø170xH900mm |
| OPTICAL | |
| Diffuser | Clear Polycarbonate |
| Light distribution | Assymetric |
| ELECTRICAL | |
| Light source | LED |
| CRI | >80 |
| CCT | 3000K-4000K-5000K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -20°C ~ + 50°C |
| Humidity | 10% ~ 95%RH |

SIGNAL series of bollards with pleasant aesthetics and a touch of prestige for any residential and landscape setting, with the most energy-efficient lighting technologies. Signal is a bollard for driveways, parks and pedestrian walkways etc.

| Range | Power(W) | Lumen(lm) |
|----------|----------|-----------|
| SIGNAL 1 | 15W | 1125lm |
| SIGNAL 2 | 25W | 1625lm |



ORDERING CODE

SERIES NAME - PRODUCT RANGE - HEIGHT - CCT - CONTROL

| | | | | |
|----------------|---|--------------|----------|----------|
| SIGNAL BOLLARD | I | I TYPE I | 30 3000K | 1 ON-OFF |
| | 2 | II TYPE II | 40 4000K | 2 1-10V |
| | | III TYPE III | 50 5000K | 3 DALI |

PRISM BOLLARD



| | | | | |
|------|------|----------|-------------------|-------------|
| IP65 | IK09 | 220-240V | 5 YRS Warranty | 10 WATTS |
|------|------|----------|-------------------|-------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|--------|-----------------------|
| Body | Steel |
| Finish | Corten (epoxy coated) |

OPTICAL

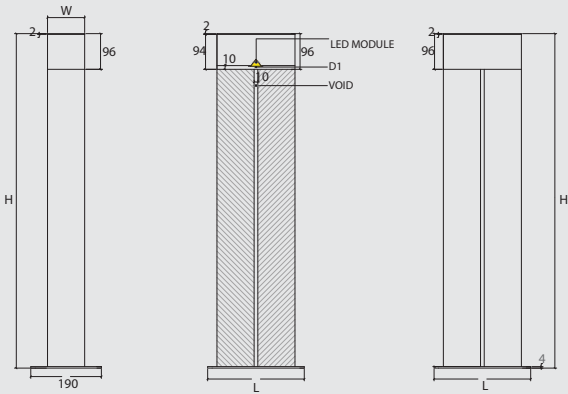
| | |
|--------------------|---------------------|
| Diffuser | Clear Polycarbonate |
| Light distribution | Assymetric |

ELECTRICAL

| | |
|-----------------------|---|
| Light source | LED |
| Lumen output | 750lm |
| CRI | >80 |
| CCT | 3000K, 4000K, 5000K, 5700K, 6500K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -40°C ~ +50°C |
| Operating Humidity | 10% ~ 90%RH |
| Lifetime | 50,000 hrs |

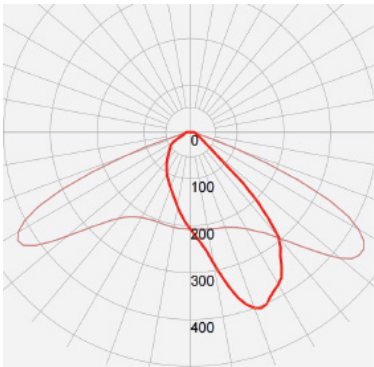
PRISM BOLLARD series of bollards with minimal design available in various heights. This bollard is unique for its design with sharp and essential lines, consists of two opposite prisms, with a void between it, giving two directions of light.

Designed to illuminate paths, parks, walkways and gardens without glaring.



| Range | Lumen(lm) |
|------------|----------------|
| PRISM MINI | L260xW100xH450 |
| PRISM MAXI | L260xW100xH900 |

AVAILABLE OPTICS



ORDERING CODE

| SERIES NAME | PRODUCT RANGE | CCT | CONTROL |
|---------------|---------------|----------|----------|
| PRISM BOLLARD | MINI | 30 3000K | 1 ON-OFF |
| | MAXI | 40 4000K | 2 1-10V |
| | | 50 5000K | 3 DALI |
| | | 57 5700K | |
| | | 65 6500K | |

PINNACLE BOLLARD SERIES



PINNACLE SERIES bollard light combines sleek design with robust functionality, making it an ideal choice for a variety of projects. Built with an aluminum body, this bollard is not only aesthetically pleasing but also offers durability, boasting an IP65 rating for water and dust resistance and an IK09 rating for impact protection. Available in three different heights, it can be customized to suit specific lighting needs and architectural preferences. Additionally, the bollard light comes in 3 colors: black, grey, and green, allowing for seamless integration into diverse environments.

| | | | | |
|------|------|----------|----------|----------------|
| IP65 | IK09 | 220-240V | 12 WATTS | 5 YRS Warranty |
|------|------|----------|----------|----------------|

Upon request

| |
|------|
| DALI |
|------|

PHYSICAL

| | |
|------------|------------------|
| Body | Aluminum |
| Finish | Grey,Green,Black |
| Dimensions | Ø172xH33mm |

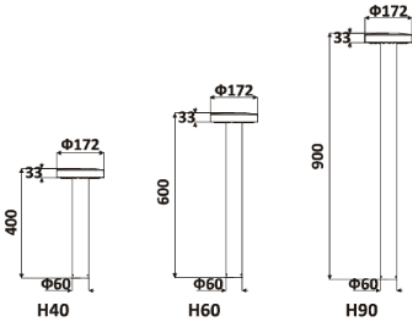
OPTICAL

| | |
|------------|---------------|
| Diffuser | Polycarbonate |
| CRI | >80 |
| Beam angle | 120° |

ELECTRICAL

| | |
|--------------|--|
| Light source | LED |
| Lumen | 960lm |
| Efficacy | 80lm/W |
| CCT | 3000K, 4000K, 5000K |
| Gear | Integrated LED driver 220-240V 50/60Hz DALI dimmable on request |

| | |
|-------------------|--------------|
| Ambient Temp. | -30°C ~ 50°C |
| Ambient Humidity | 10% ~ 90% |
| Light source life | 50,000h |



PINNACLE 1

PINNACLE 2

PINNACLE 3

ORDERING CODE

SERIES NAME - PRODUCT RANGE - FINISH - CCT - OPTICS - CONTROL - ACCESSORIES

| | | | | | | |
|----------|-------------------------------|-------------------------------|----------------------------------|------|--------------------|---------------------------------|
| PINNACLE | 1 400mm 2 600mm 3 900mm | G GREY GR GREEN B BLACK | 30 3000K 40 4000K 50 5000K | 120° | 1 ON-OFF 2 DALI | AB ANCHOR BOLT BP BASE PLATE |
|----------|-------------------------------|-------------------------------|----------------------------------|------|--------------------|---------------------------------|

CAPORA BOLLARD SERIES



CAPORA SERIES bollard light combines sleek design with robust functionality, making it an ideal choice for a variety of projects. Built with an aluminum body, this bollard is not only aesthetically pleasing but also offers durability, boasting an IP65 rating for water and dust resistance and an IK08 rating for impact protection. Available in three different heights, it can be customized to suit specific lighting needs and architectural preferences. Additionally, the bollard light comes in 6 colors: Matt Black, Matt Coffee, Matt Grey, Matt Green, Grey Metal Sand Grain and Dark Grey.

ORDERING CODE

SERIES NAME - PRODUCT RANGE - FINISH - CCT - OPTICS - CONTROL - ACCESSORIES

| | | | | | | |
|--------|--------------------------------|---|----------------------------------|------|-------------------------------|----------------|
| CAPORA | 1 365mm 2 750mm 3 1200mm | B Matt Black C Matt Coffee G Matt Grey Gr Matt Green GS Grey Metal Sand Grain DG Dark Grey | 30 3000K 40 4000K 60 6000K | 360° | 1 ON-OFF 2 1-10V 3 DALI | AB ANCHOR BOLT |
|--------|--------------------------------|---|----------------------------------|------|-------------------------------|----------------|

| | | | | |
|------|------|----------|------------|----------------|
| IP65 | IK08 | 220-240V | 7-15 WATTS | 5 YRS Warranty |
|------|------|----------|------------|----------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|---------|--|
| Body | Aluminum |
| Finish | Matt Black, Matt Coffee, Matt Grey, Matt Green, Grey Metal Sand Grain, Dark Grey |
| Coating | Anti-corrosion and UV proof powder coating |
| Screws | Stainless steel |

OPTICAL

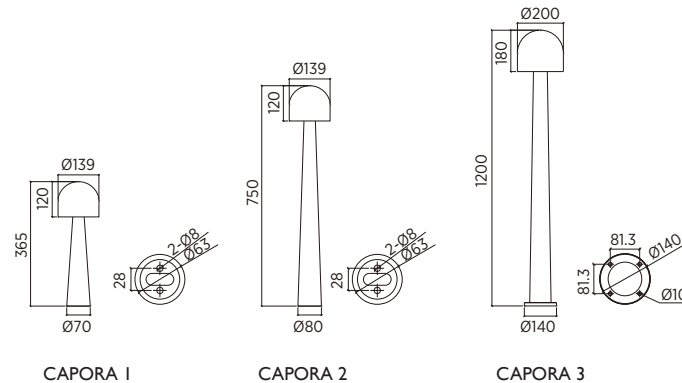
| | |
|------------|-----------------------|
| Diffuser | Frosted Polycarbonate |
| CRI | >80 |
| Beam angle | 360° |

ELECTRICAL

| | |
|--------------|---|
| Light source | LED |
| Efficacy | 70 lm/W |
| CCT | 3000K, 4000K, 6000K |
| Gear | Integrated LED driver 220-240V 50/60Hz DALI dimmable on request |

| | |
|-------------------|--------------|
| Ambient Temp. | -30°C - 50°C |
| Ambient Humidity | 10% - 90% |
| Light source life | 50,000h |

| Series | Power (W) | Dimensions (mm) | Lumen(lm) |
|----------|-----------|-----------------|-----------|
| CAPORA 1 | 7W | Ø139xH365 | 490lm |
| CAPORA 2 | 10W | Ø139xH750 | 700lm |
| CAPORA 3 | 15W | Ø200xH1200 | 1050lm |



VALORA BOLLARD SERIES



VALORA SERIES bollard light combines sleek design with robust functionality, making it an ideal choice for a variety of projects. Built with an aluminum body, this bollard is not only aesthetically pleasing but also offers durability, boasting an IP65 rating for water and dust resistance and an IK08 rating for impact protection. Available in three different heights, it can be customized to suit specific lighting needs and architectural preferences. Additionally, the bollard light comes in 5 colors: Matt Black, Matt Grey, Matt Green, Grey Metal Sand Grain and Dark Grey.

IP65

IK08

220-240V

7 WATTS

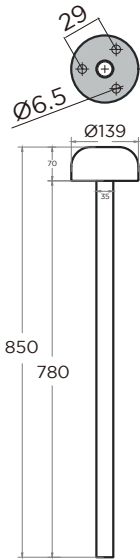
5 YRS Warranty

Upon request

1-10V

DALI

| PHYSICAL | |
|-------------------|---|
| Body | Aluminum |
| Finish | Matt Black, Matt Grey, Matt Green, Grey Metal Sand Grain, Dark Grey |
| Dimensions | Ø139xH850mm |
| Coating | Anti-corrosion and UV-proof powder coating |
| Screws | Stainless steel |
| Reflector | Professional optical reflector |
| OPTICAL | |
| Diffuser | Frosted Polycarbonate |
| CRI | >80 |
| Beam angle | 360° |
| ELECTRICAL | |
| Light source | LED |
| Efficacy | 70 lm/W |
| CCT | 3000K, 4000K, 6000K |
| Driver | Integrated LED driver 220-240V 50/60Hz DALI dimmable on request |
| Ambient Temp. | -30°C ~ 50°C |
| Ambient Humidity | 10% ~ 90% |
| Light source life | 50,000h |



ORDERING CODE

| SERIES NAME | FINISH | CCT | OPTICS | CONTROL | ACCESSORIES |
|-------------|---------------|----------|--------|----------|----------------|
| VALORA | B Matt Black | 30 3000K | 360° | 1 ON-OFF | AB ANCHOR BOLT |
| | G Matt Grey | 40 4000K | | 2 1-10V | |
| | Gr Matt Green | 60 6000K | | 3 DALI | |
| | GS Grey Sand | | | | |
| | DG Dark Grey | | | | |

SOLAR TECH



SWEEP SOLAR BOLLARD



SWEEP SOLAR bollard represents a groundbreaking LED solar bollard that has been elevated in terms of aesthetics and creativity. With an IP66 rating, a mono-crystalline solar panel, and UV-resistant PC material, this bollard, featuring an architectural design, has gained significant popularity in various settings such as pathways, gardens, sidewalks, buildings and more.

Key Features: IP66 & IK07, unique and elegant appearance, professional SET1,SET2,SET3 Lighting distribution, high efficiency mono-crystalline solar panel, long lifespan LifeP04 Battery, 8 hour charging, working 2-3 days.

IP66

IK07

SOLAR

5 YRS
Warranty

3
WATTS

PHYSICAL

| | |
|------------|-------------------------------|
| Body | Aluminum |
| Finish | Powder Coated -Black RAL 9017 |
| Dimensions | Type 1: Ø230xH400mm |
| | Type 2: Ø230xH520mm |
| | Type 3: Ø230xH920mm |

OPTICAL

| | |
|--------------------|---------------|
| Diffuser | Polycarbonate |
| Light distribution | Asymmetric |

ELECTRICAL

| | |
|-------------------|----------------------------------|
| Light source | LED |
| Power Consumption | 3W |
| Lumen | SET1 340lm/SET2 320lm/SET3 420lm |
| CRI | 80 |
| CCT | 4000K (3000K & 5000K Optional) |

SOLAR PANEL

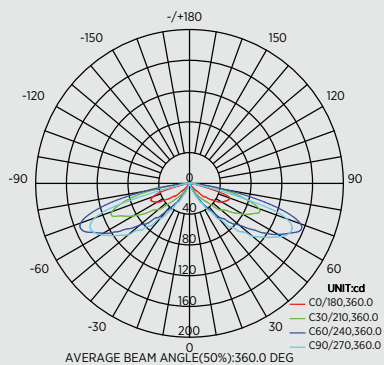
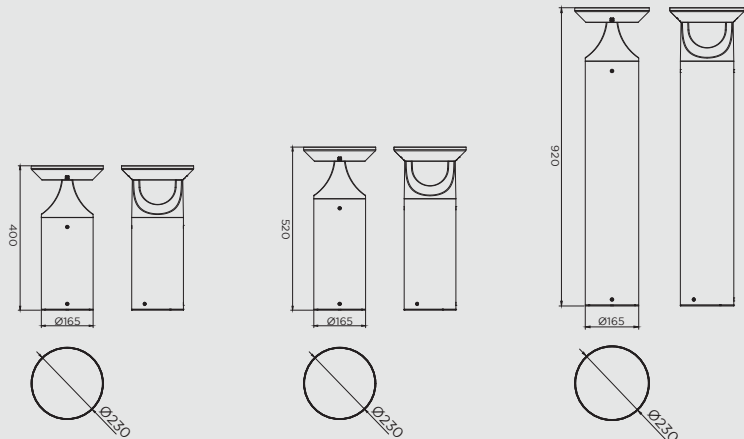
| | |
|-------|------------------------------|
| Power | 5W |
| Type | Mono-Crystalline Solar Panel |

BATTERY

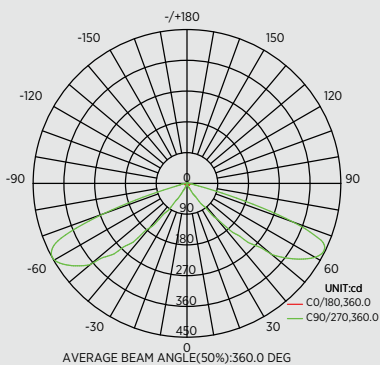
| | |
|-----------------------|---------------------------|
| Type | LifeP04 Battery |
| Capacity | 38.4Wh |
| Charging Time | >8 Hours |
| Operating Time | Normal Mode>11 Hours |
| Operating Temperature | Intelligent Mode 2-3 Days |
| | 0°C ~ +50°C |
| Humidity | 10% ~ 90%RH |

WARRANTY

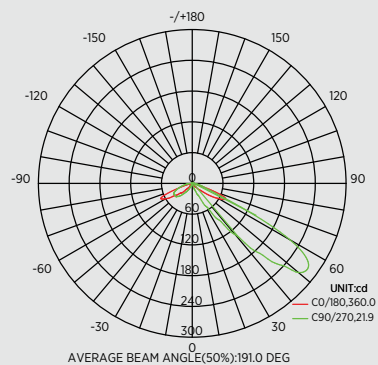
| | |
|------------------|---------|
| Battery | 3 Years |
| OtherAccessories | 5 Years |



SET1



SET2



SET3

WORKING MODE

| Lighting Scheme | Time 1 | Time 2 | Time 3 | Time 4 | Time 5 | Energy consumption | Working hours in rainy days |
|--------------------------------|---------|---------|---------|---------|---------|--------------------|-----------------------------|
| 1 (Factory default) | 6Hx30% | 0Hx100% | 0Hx100% | TOTx0% | 1Hx30% | 7.4Wh | 4-5 Days |
| 2 (Customized lighting scheme) | 6Hx30% | 6Hx30% | 0Hx100% | 0Hx0% | 0Hx100% | 12.6Wh | 3-4 Days |
| 3 (Customized lighting scheme) | 6Hx50% | 6Hx30% | 0Hx100% | 0Hx0% | 0Hx100% | 16.8Wh | 2-3 Days |
| 4 (Customized lighting scheme) | 4Hx70% | 4Hx30% | 4Hx30% | 0Hx0% | 0Hx100% | 18.2Wh | 1-2 Days |
| 5 (Customized lighting scheme) | 4Hx100% | 2Hx50% | 0Hx100% | 0Hx0% | 0Hx100% | 17.5Wh | 2-3 Days |
| 6 (Customized lighting scheme) | 2Hx50% | 4Hx30% | 0Hx100% | TOTx20% | 1Hx30% | 12.3Wh | 3-4 Days |
| 7 (Customized lighting scheme) | 4Hx80% | 2Hx30% | 0Hx100% | TOTx0% | 1Hx80% | 16.1Wh | 2-3 Days |

*The table of rainy days is for reference only, the actual working days is subject to the local sunshine conditions.

ORDERING CODE

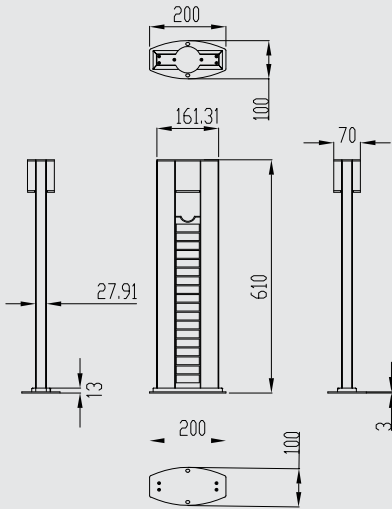
SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL

SWEEP SOLAR 1 0.4m 30 3000K 1 SET1 1 ON-OFF
 2 0.5m 40 4000K 2 SET2
 3 0.9m 50 5000K 3 SET3

ECO SLIM SOLAR BOLLARD



ECO SLIM SOLAR bollard represents a groundbreaking LED solar bollard that has been elevated in terms of aesthetics and creativity. With an IP65 rating, and UV-resistant PC material, this bollard, featuring an architectural design, has gained significant popularity in various settings such as pathways, gardens, sidewalks, buildings and more.



ORDERING CODE

SERIES NAME - CCT - CONTROL
ECO SLIM SOLAR 30 3000K I ON-OFF
60 6000K

| | | | | |
|------|------|-------|-------------------|------------|
| IP65 | IK07 | SOLAR | 5 YRS Warranty | 3 WATTS |
|------|------|-------|-------------------|------------|

PHYSICAL

| | |
|------------|---------------------------------|
| Body | Aluminum Alloy High Quality ABS |
| Finish | Powder Coated |
| Dimensions | L200xW100xH610mm |

OPTICAL

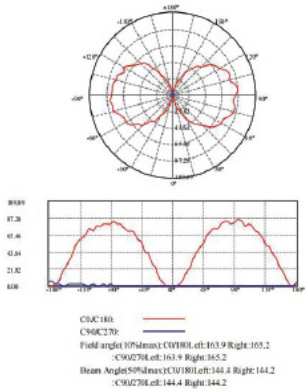
| | |
|--------------------|-------------------|
| Diffuser | Polycarbonate |
| Light distribution | Asymmetric 2 ways |

ELECTRICAL

| | |
|-----------------------|-------------------------------|
| Light source | LED |
| Lumen | 500lm |
| CCT | 6000K or 3000K (Optional) |
| Li-ion Battery | 5200mAh |
| Charging Time | 6-8hrs by bright sunshine |
| Operating Time | 3-5nights after fully charged |
| Operating Temperature | -25°C ~ +65°C |
| Humidity | 10% ~ 90%RH |

WARRANTY

| | |
|-------------------|---------|
| Battery | 3 Years |
| Other Accessories | 5 Years |



DHOW SOLAR SMART POLE



| | | | | |
|------|------|-------|-------------------|--------------|
| IP65 | IK08 | SOLAR | 5 YRS Warranty | 4x8 WATTS |
|------|------|-------|-------------------|--------------|

| | |
|--------------------|---|
| PHYSICAL | |
| Body | Die Cast Aluminum |
| Finish | RAL 9023 Pearl Dark Grey |
| Dimensions | L525xW289xH132mm |
| OPTICAL | |
| Diffuser | 5mm Thickness Safety Glass |
| Light Distribution | PMMA Secondary Light Distribution |
| Fixation | 0-15° Horizontal/Vertical Pole |
| Beam Angle | 120x50°, 150x65°, 150x60°, 140x30°, 148° |
| ELECTRICAL | |
| Lumen | 7,200lm |
| CCT | 3000K-4000K-5000K-6000K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% ~ 90% |

DHOW SOLAR SMART POLE features integrated solar tube technology to prevent dust accumulation, represents a cutting-edge fusion of renewable energy and advanced functionality. Designed to meet the demands of modern urban landscapes, this innovative pole integrates seamlessly into smart city infrastructure. Beyond its primary function of generating clean energy, it also incorporates additional features such as speaker and camera, enhancing its utility and versatility.

With its ability to harness solar power efficiently while providing surveillance and audio capabilities, it represents a great shift towards more intelligent, environmentally conscious infrastructure solutions.

ORDERING CODE

SERIES NAME - CCT - CONTROL
DHOW SOLAR 30 3000K I ON-OFF
SMART POLE 40 4000K
 50 5000K
 60 6000K



Doha Port.



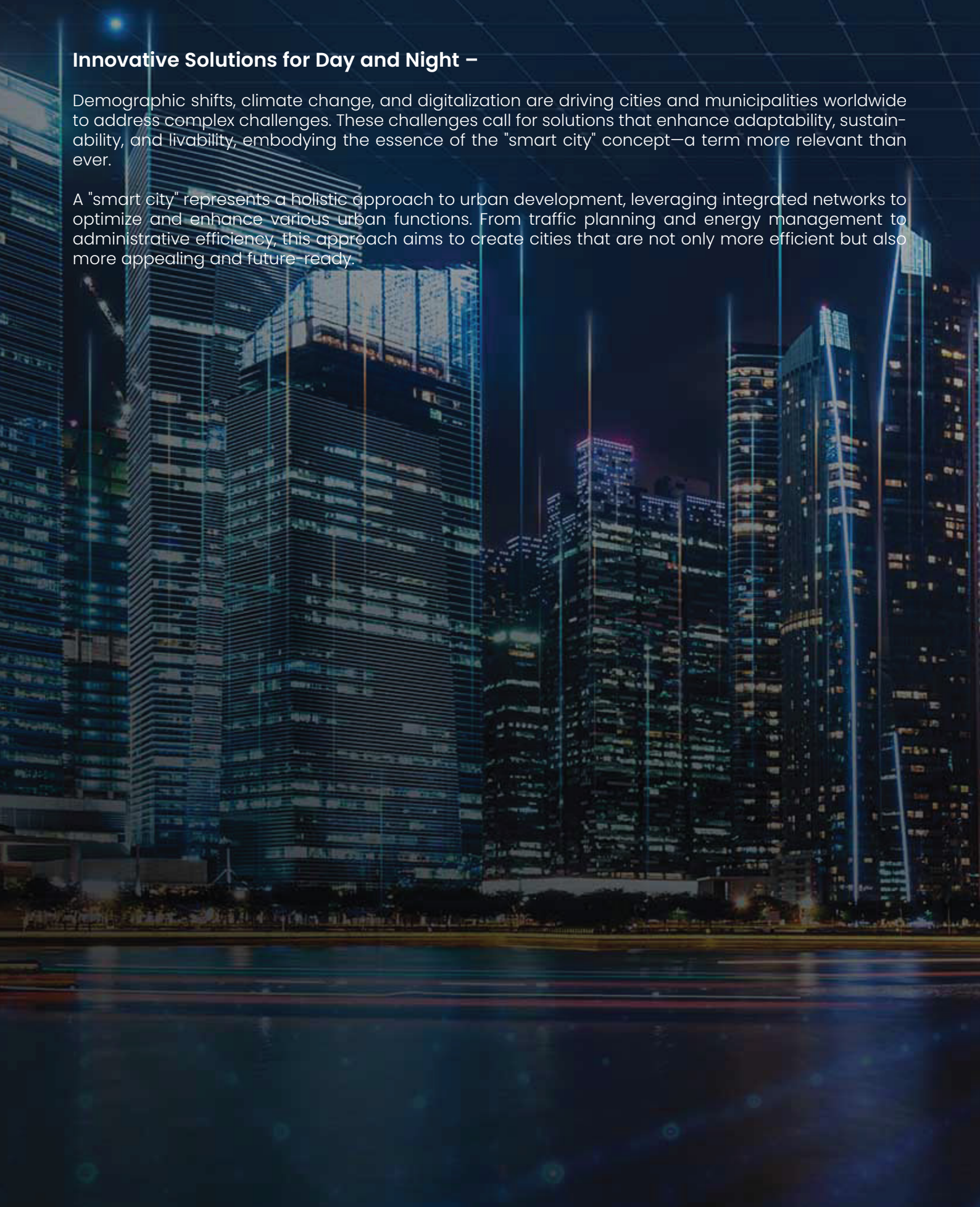
SMART CITY



Innovative Solutions for Day and Night –

Demographic shifts, climate change, and digitalization are driving cities and municipalities worldwide to address complex challenges. These challenges call for solutions that enhance adaptability, sustainability, and livability, embodying the essence of the "smart city" concept—a term more relevant than ever.

A "smart city" represents a holistic approach to urban development, leveraging integrated networks to optimize and enhance various urban functions. From traffic planning and energy management to administrative efficiency, this approach aims to create cities that are not only more efficient but also more appealing and future-ready.

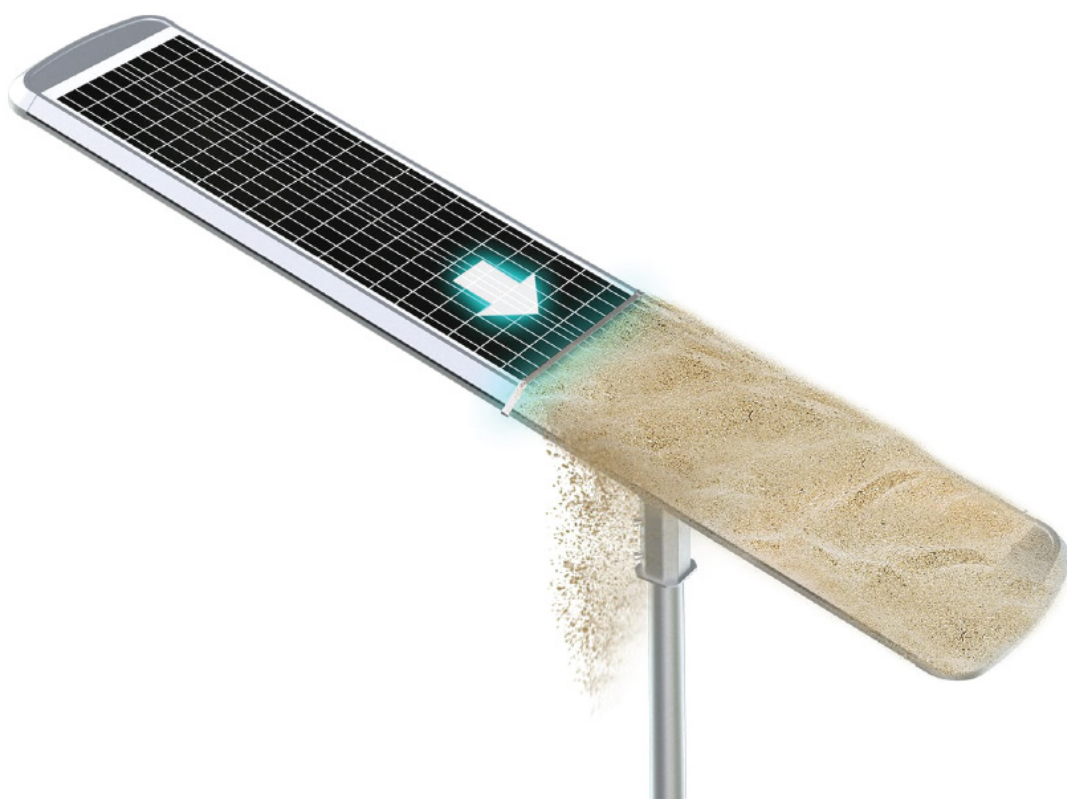






SPECTRUM SOLAR STREET LIGHT

Smart City Solar Pole with a built-in
Cleaning System



SELF CLEANING SYSTEM



Solar panels play a crucial role in solar street lighting systems, particularly in the GCC region, where dust and dirt accumulation presents a significant challenge. In such conditions, dirt buildup can reduce electricity output by up to 50%. To address this issue, BLF has designed a solar street light with an auto-cleaning function, delivering a completely new and improved experience to many customers.

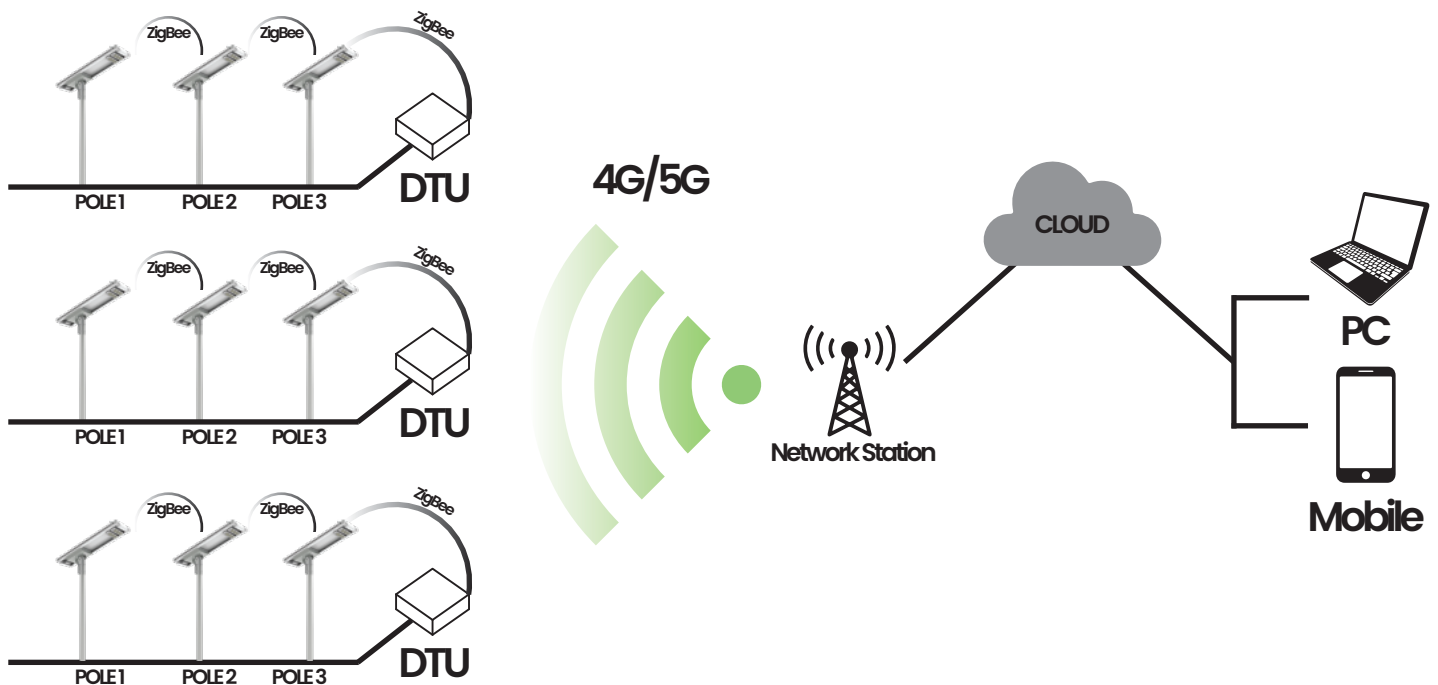
The SPECTRUM STREET LIGHT auto-cleaning system is a lightweight and innovative solution powered by small, efficient electric motors. Specifically designed to withstand the harsh and dusty conditions of the GCC, it can be programmed for regular or on-demand cleanings, ensuring consistent electricity production and maintaining optimal performance.



IoT-Enabled Solar Street Lighting System



Our IoT-enabled solar street lighting system integrates advanced technology with solar energy, offering efficient, sustainable, and easily manageable solutions for smart cities. Each solar light features a Remote Terminal Unit (RTU) for independent operation, while a centralized Data Terminal Unit (DTU) can manage up to 150 lights within a 6 km radius. The system uses ZigBee wireless communication to connect each light to the DTU, ensuring seamless data transfer, and is supported by 4G or 5G networks for cloud connectivity.



Key Features:

- Energy Efficiency: Adjusts light intensity based on environmental conditions.
- Real-Time Monitoring: Tracks performance, energy use, and battery status.
- Maintenance Alerts: Automated notifications for quick issue resolution.
- Remote Diagnostics: Troubleshoot and resolve issues remotely.
- Sustainable: Solar-powered, reducing grid dependence.

AREAS OF APPLICATION

URBAN & RESIDENTIAL STREETS

RAILWAYS & METRO STATIONS

BIKES & PEDESTRIAN AREAS

ROADS & MOTORWAYS

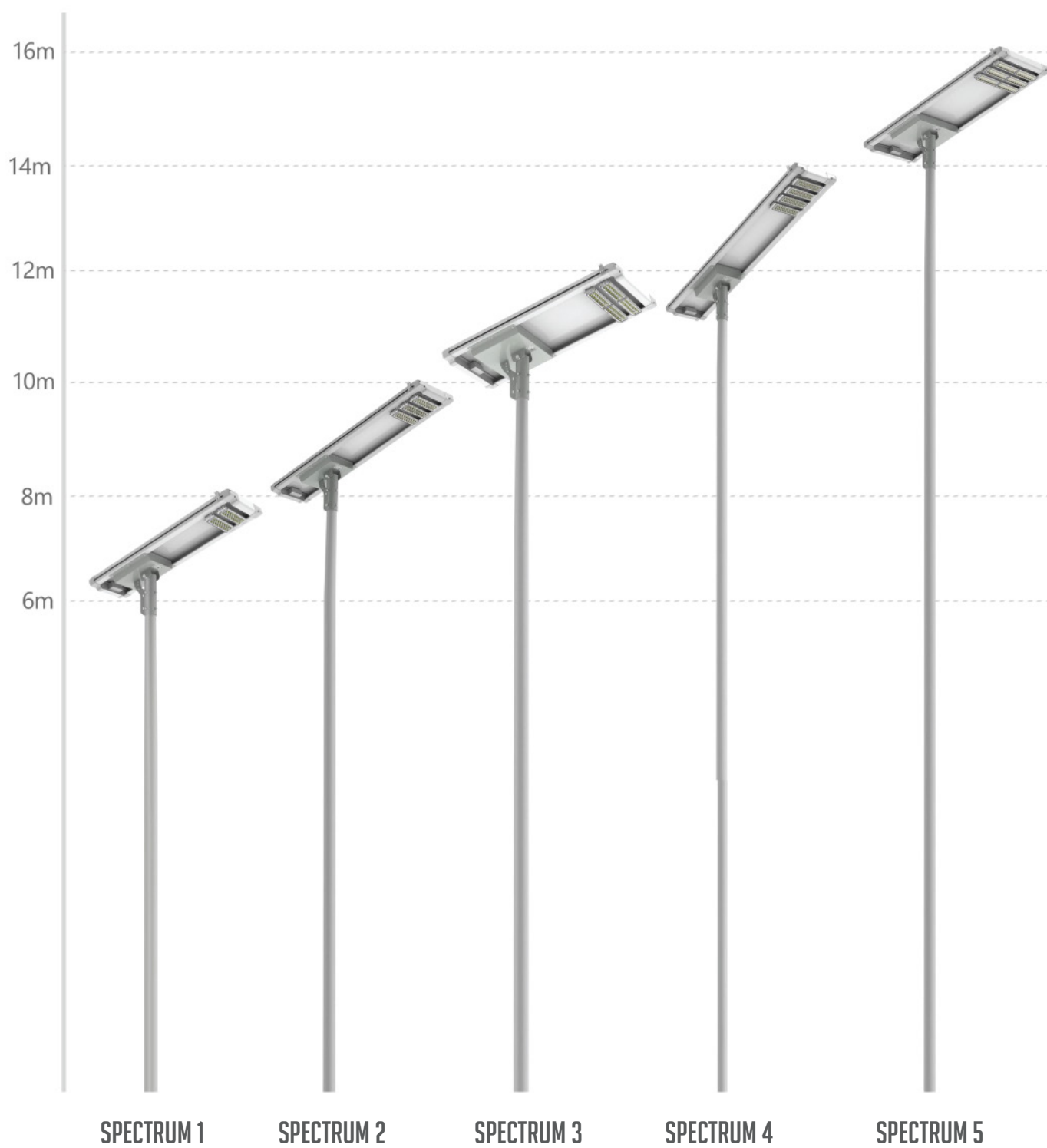
PARKING AREAS

HIGHWAYS

BRIDGES

Products Benefits & Features

- Modular design: 45W, 55W, 70W, 90W, 115W options
- Excellent outlook, robust and durable design
- Automated self-cleaning with motorized brush
- Fully autonomous and energy-efficient operation
- High-efficiency LED modules: up to 220 lm/W
- Adjustable LED module angles (0° to +40°)
- Long lifespan: 100,000 hours for LED modules
- High-efficiency solar panel (>24%)
- Easy installation with minimal maintenance
- High-capacity lithium battery pack
- Controller Indicator to monitor charging and operational status
- Remote smart monitoring via web platform



Product Datasheet

Product Range

| | SPECTRUM 1 | SPECTRUM 2 | SPECTRUM 3 | SPECTRUM 4 | SPECTRUM 5 |
|---------------------|--------------|---------------|---------------|---------------|---------------|
| Nominal Wattage (W) | 45W | 55W | 70W | 90W | 115W |
| Lumen Output (lm) | 9000-10000lm | 10000-12000lm | 13000-15000lm | 18000-20000lm | 20000-25000lm |

*Values are subject to ±5% tolerance.

Mechanical Specifications

| | | | | | |
|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Recommended Pole Height | 6-8m | 8-10m | 10-12m | 12-14m | 14-16m |
| Net Weight (Kg) | 24Kg | 30Kg | 35Kg | 36Kg | 45Kg |
| Product Dimension (mm) | 1327x416x87mm | 1694x416x87mm | 1327x634x87mm | 2061x416x87mm | 1489x623x87mm |

Physical

| | |
|---------------|--|
| Body material | High Pressure Die-cast Aluminum Powder Coated |
| Housing color | Light Grey (Default) / Other colors (available on request) |
| Screws | Stainless steel 316 marine grade |
| Mounting type | Adjustable vertical pole-mounted Ø60 to 76mm |

LED Lighting

| | |
|---------------------|---|
| Lens material | PMMA (UV-resistant Polycarbonate) |
| Optics | 70x140° |
| LED Chip | High Efficient LED Chip type 5050 |
| Efficiency (lm/W) | 220 lm/W |
| CCT (K) | 3000-6000K (can be customized) |
| CRI | Ra> 70 (Default) / Ra>80 (available on request) |
| Lifespan L80 at 25° | >100,000 h |
| Operating Method | Motion Sensor (Compatible with Poles up to 6 Meters in Height) / IoT System with a coverage radius of up to 6 kilometers / Time Schedule |

Solar Panel

| | | | | | |
|--------------------|---|------|------|------|------|
| Power of PV module | 100W | 130W | 150W | 180W | 200W |
| Technology | Monocrystalline silicon, efficiency > 24% | | | | |
| Voltage (V) | 25.6Vdc | | | | |
| Lifespan L80 | >25 years | | | | |

Battery Storage

| | | | | | |
|---------------------------------------|-----------------------------------|-------|-------|--------|--------|
| Battery Capacity (can be customized) | 640WH | 825WH | 825WH | 1280WH | 1715WH |
| Type | Lithium LiFePO4, High temperature | | | | |
| Voltage (V) | 3.2Vdc | | | | |
| Lighting Time in rainy day (Autonomy) | >3 days | | | | |
| Lifespan | 6000 Cycles (>10 years) | | | | |

Product Datasheet

Charging Controller

| | |
|--------------|--|
| Lifespan | >12 years |
| Working Mode | MPPT |
| Control Mode | Auto On/Off(Activated by Sunlight),Auto Intelligent(Brightness adjustable based on battery voltage),Time Mode,Remote Control |

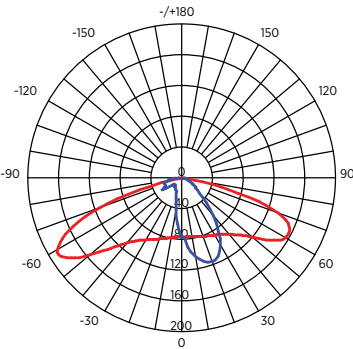
Environment

| | |
|---|----------------------------------|
| Working Ambient Temperature (Charging/Discharging) | -15°C to +75°C |
| IP rating | IP65 |
| IK rating | IK08 (Housing) , IK09 (Diffuser) |

Solar Panel Autocleaning function

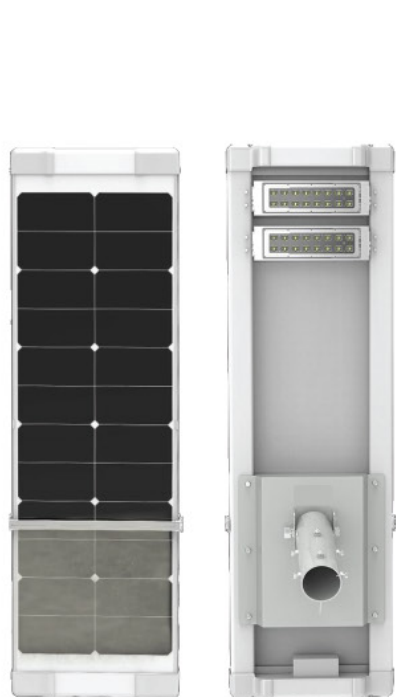
| |
|--|
| Automatic Dust and Snow Removal on Solar Panel Using a Motorized Brush |
|--|

Optic

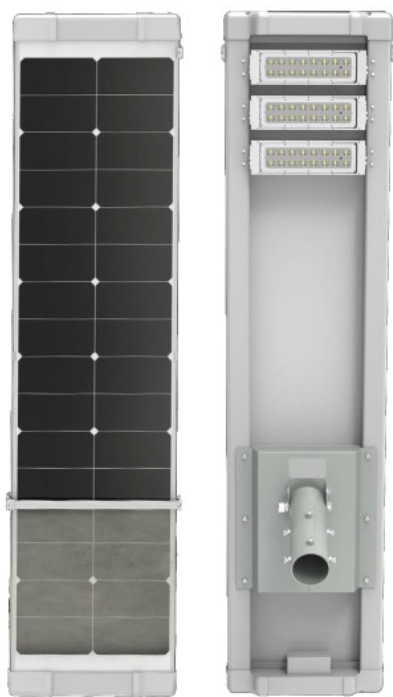


Mounting type





SPECTRUM 1



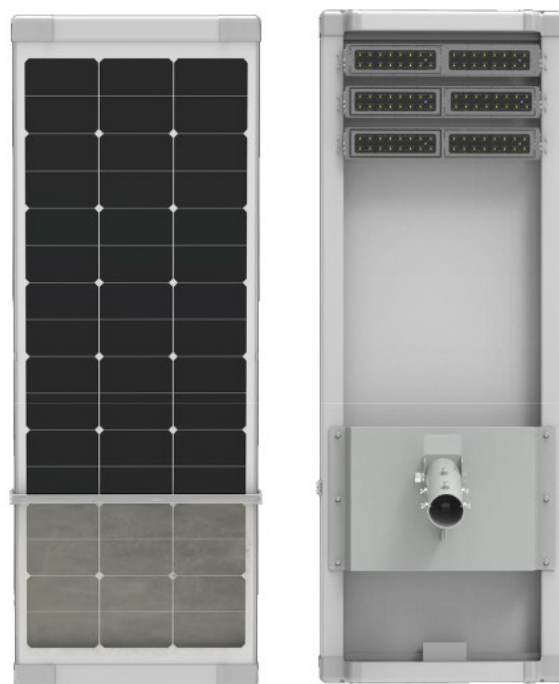
SPECTRUM 2



SPECTRUM 3



SPECTRUM 4



SPECTRUM 5

POLES SERIES



QUADRANT POLE
30-60W



EDGE OPEN POLE
60-90W



PATTERN POLE
40-60W



ZEKREET MULTI POLE
6-42W



QUADRANT SLIM POLE
20-30W



LUNA POLE
30-75W



BELL POLE
20/40W



TORCH POLE
40-100W

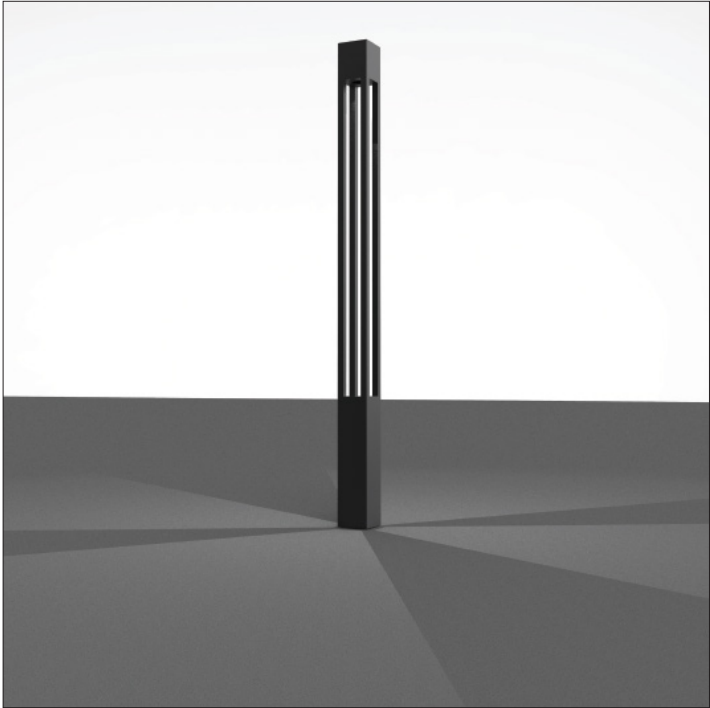


FLAME POLE
30-50W



HALO POLE
20-100W

QUADRANT POLE



IP68

IK09

SOLAR

5 YRS
Warranty

30 - 60
WATTS

Upon request

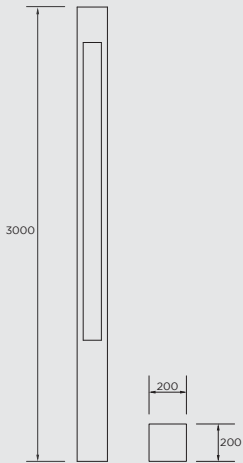
1-10V

DALI

| PHYSICAL | |
|-----------------------|---|
| Body | Aluminum Extruded Profile |
| Finish | Polyester Powder Coated |
| Dimensions | L200xW200xH3000mm |
| OPTICAL | |
| Diffuser | Opal Polycarbonate |
| Light distribution | 4 ways light distribution |
| ELECTRICAL | |
| Light source | LED |
| CRI | >70 |
| CCT | 3000K, 4000K, 5000K, 5700K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -40°C ~ +50°C |
| Humidity | 10% ~ 90%RH |

QUADRANT POLE series of poles with minimal design available in various heights. Designed to illuminate paths, parks, walkways and gardens without glaring. The external screws are in stainless steel 316L.

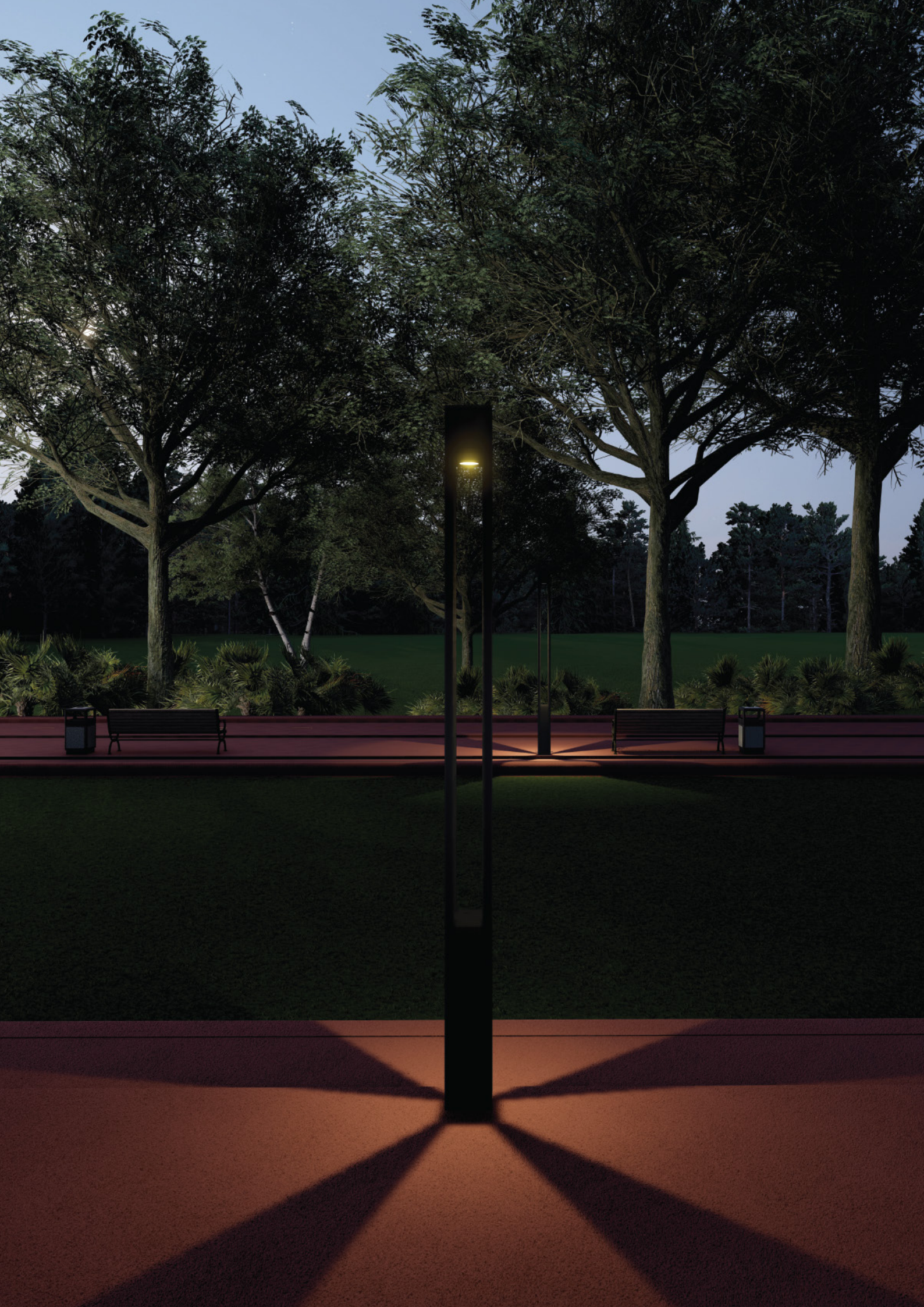
Available in 2 meters height.



| Range | Power (W) | Lumen (lm) |
|-----------------|-----------|------------|
| QUADRANT POLE 1 | 30W | 4950lm |
| QUADRANT POLE 2 | 40W | 6400lm |
| QUADRANT POLE 3 | 50W | 7500lm |
| QUADRANT POLE 4 | 60W | 8400lm |

ORDERING CODE

| SERIES NAME | - | PRODUCT RANGE | - | CCT | - | CONTROL |
|---------------|---|---------------|---|----------|---|----------|
| QUADRANT POLE | | 1 | | 30 3000K | | 1 ON-OFF |
| | | 2 | | 40 4000K | | 2 1-10V |
| | | 3 | | 50 5000K | | 3 DALI |
| | | 4 | | 57 5700K | | |

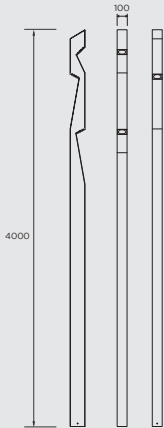


EDGE OPEN POLE



EDGE OPEN series is a distinctive bollard design that provides vibrant illumination for pathways, landscape zones, and various public areas.

- Reduced glare through a concealed light source.
- Enhanced linear forward light distribution option with complete cut-off and minimized stray light.
- Simple installation and maintenance.
- Contemporary and refined design that adds a distinctive touch to outdoor applications.



ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL

EDGE OPEN POLE 1 30 3000K 1 TYPE II-1 1 ON-OFF
 2 40 4000K 2 TYPE II-2 2 1-10V
 3 50 5000K 3 TYPE II-3 3 DALI
 57 5700K

| | | | | |
|------|------|----------|-------------------|------------------|
| IP68 | IK09 | 220-240V | 5 YRS Warranty | 60 - 90 WATTS |
|------|------|----------|-------------------|------------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|------------|---------------------------|
| Body | Aluminum Extruded Profile |
| Finish | Polyester Powder Coated |
| Dimensions | L200xW100xH3000mm |

OPTICAL

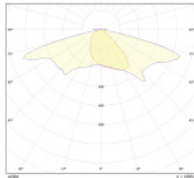
| | |
|--------------------|---------------------------|
| Diffuser | Clear Polycarbonate |
| Light distribution | 2 ways light distribution |

ELECTRICAL

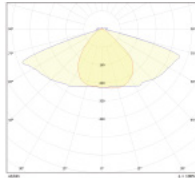
| | |
|-----------------------|---|
| Light source | LED |
| CRI | >70 |
| CCT | 3000K, 4000K, 5000K, 5700K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -40°C ~ +50°C |
| Humidity | 10% ~ 90%RH |

| Range | Power (W) | Lumen (lm) |
|------------------|-----------|------------|
| EDGE OPEN POLE 1 | 3x20W | 3x2700lm |
| EDGE OPEN POLE 2 | 3x25W | 3x3175lm |
| EDGE OPEN POLE 3 | 3x30W | 3x3600lm |

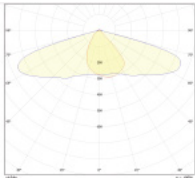
AVAILABLE OPTICS



Type II Short-1



Type II Short-2



Type II Short-3

PATTERN POLE



PATTERN series of poles is a special pole with unique reflections, distinguished by its square form factor, captivating light effects, and robust construction, PATTERN pole is a great choice for illuminating pathways, landscaped areas, and various public spaces.

- Optimized symmetrical uniform light distribution with a unique effect.
- Features a minimalistic design, allowing seamless integration with diverse architectural styles.
- Sophisticated and decorative pattern on 4 sides.
- Easy installation and maintenance.

ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - CONTROL

| | | | |
|--------------|---|----------|----------|
| PATTERN POLE | 1 | 30 3000K | 1 ON-OFF |
| | 2 | 40 4000K | 2 1-10V |
| | 3 | 50 5000K | 3 DALI |
| | | 57 5700K | |

| | | | | |
|------|------|----------|-------------------|------------------|
| IP68 | IK09 | 220-240V | 5 YRS Warranty | 40 - 60 WATTS |
|------|------|----------|-------------------|------------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|------------|---------------------------|
| Body | Aluminum Extruded Profile |
| Finish | Polyester Powder Coated |
| Dimensions | L200xW200xH3000mm |

OPTICAL

| | |
|--------------------|-------------------------|
| Diffuser | Opal Polycarbonate |
| Light distribution | 360° light distribution |

ELECTRICAL

| | |
|-----------------------|---|
| Light source | LED |
| CRI | >70 |
| CCT | 3000K, 4000K, 5000K, 5700K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -40°C ~ +50°C |
| Humidity | 10% - 90%RH |

| Range | Power (W) | Lumen (lm) |
|----------------|-----------|------------|
| PATTERN POLE 1 | 40W | 6400lm |
| PATTERN POLE 2 | 50W | 7500lm |
| PATTERN POLE 3 | 60W | 8400lm |

ZEKREET MULTI POLE



IP66

IK08

220-240V

5 YRS
Warranty

6-80
WATTS

Upon request

1-10V

DALI

RGB

RGBW

DMX

| | |
|-------------------|--|
| PHYSICAL | |
| Body | Aluminum |
| Finish | Powder coating |
| Dimensions | L200xW100xH3000mm |
| OPTICAL | |
| Diffuser | 19mm Toughened Glass |
| Light Emission | Symmetrical |
| Aiming | Fixed |
| CRI | >80 |
| ELECTRICAL | |
| Driver | Integrated LED driver 220-240V 50/60Hz |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% ~ 90% |

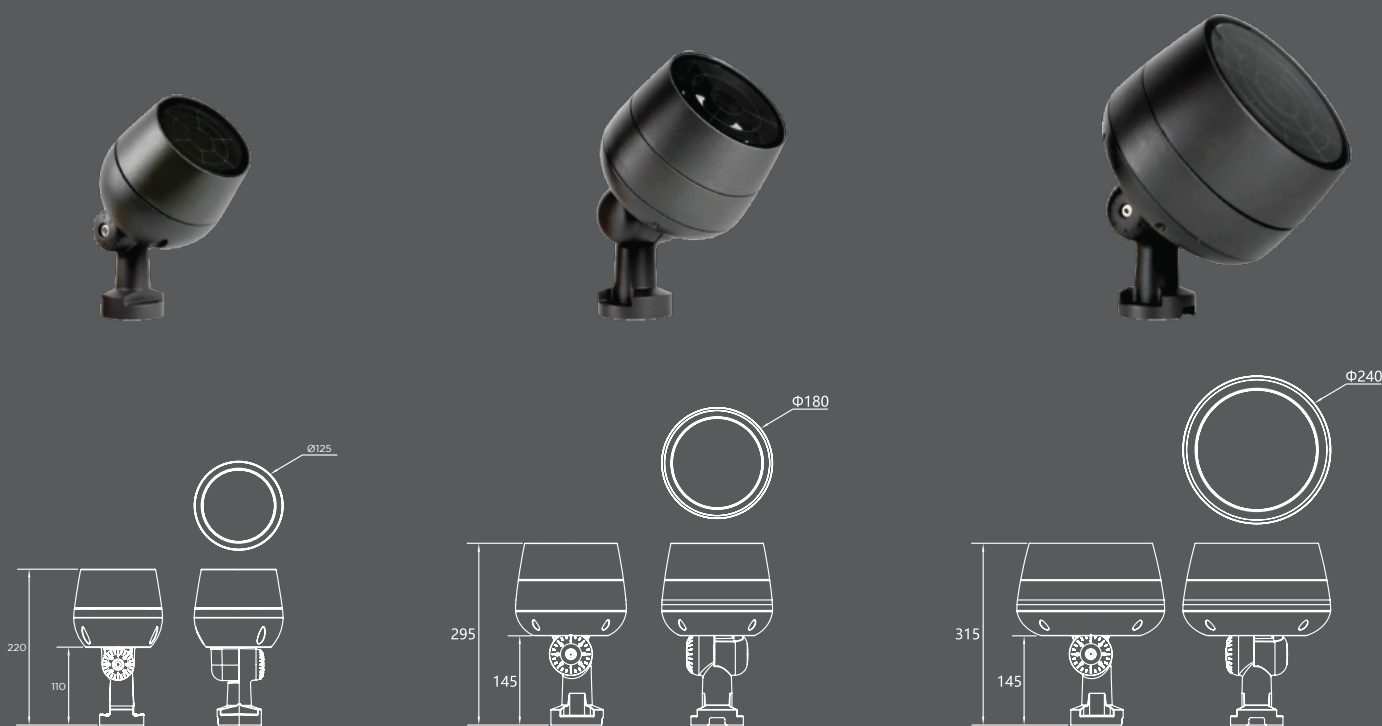
ZEKREET MULTI POLE is an example of sophistication and functionality in outdoor lighting, it features multiple spotlights strategically positioned on the pole, offering illumination in multiple directions. The seamless integration of these spotlights ensures a comprehensive lighting solution, brightening up every corner with precision and flair. Beyond its exceptional functionality, it stands as a testament to exquisite design, seamlessly blending aesthetics and practicality. Its contemporary form adds a touch of elegance to any environment, making it not just a lighting solution but a statement piece that enhances the visual appearance of outdoor spaces.



ZEKREET 1

ZEKREET 2

ZEKREET 3



PRODUCT RANGE

| | Rated Power(W) | Lumen(lm) | Dimensions(mm) | LED Quantity(pcs) | Beam angle | CCT(K) |
|-------------|----------------|-----------|----------------|-------------------|--------------------|-------------------|
| ZEKREET 1.1 | 6W | 295lm | Ø125xH220 | 3 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 1.2 | 8W | 430/550lm | Ø125xH220 | 3 pcs | 3.5°,5° | 3000K,4000K |
| ZEKREET 1.3 | 8W | 610lm | Ø125xH220 | 6 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 1.4 | 10W | 895lm | Ø125xH220 | 9 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 1.5 | 15W | 1345lm | Ø125xH220 | 9 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 1.6 | 18W | 1614lm | Ø125xH220 | 9 pcs | 7°,15°,25°,40°,60° | 3000K,4000K |
| ZEKREET 2.1 | 11W | 910lm | Ø180xH295 | 9 pcs | 7°,15°,25°,40°,60° | 3000K,4000K(RGB) |
| ZEKREET 2.2 | 14W | 1203lm | Ø180xH295 | 12 pcs | 7°,15°,25°,40°,60° | 3000K,4000K(RGB) |
| ZEKREET 2.3 | 21W | 1278lm | Ø180xH295 | 9 pcs | 3.5° | 3000K,4000K(RGB) |
| ZEKREET 2.4 | 21W | 1598lm | Ø180xH295 | 9 pcs | 7°,15°,25°,40°,60° | 3000K,4000K(RGB) |
| ZEKREET 2.5 | 21W | 1815lm | Ø180xH295 | 18 pcs | 7°,15°,25°,40°,60° | 3000K,4000K(RGB) |
| ZEKREET 2.6 | 28W | 2165lm | Ø180xH295 | 12 pcs | 7°,15°,25°,40°,60° | 3000K,4000K(RGB) |
| ZEKREET 2.7 | 30W | 2476lm | Ø180xH295 | 9 pcs | 5° | 3000K,4000K(RGB) |
| ZEKREET 2.8 | 42W | 3283lm | Ø180xH295 | 18 pcs | 7°,15°,25°,40°,60° | 3000K,4000K(RGB) |
| ZEKREET 3.1 | 40W | 2510lm | Ø240xH315 | 18 pcs | 3.5° | 3000K,4000K(RGB) |
| ZEKREET 3.2 | 60W | 4370lm | Ø240xH315 | 18 pcs | 5° | 3000K,4000K(RGB) |
| ZEKREET 3.3 | 60W | 4558lm | Ø240xH315 | 24 pcs | 15°,25°,40°,60° | 3000K,4000K(RGBW) |
| ZEKREET 3.4 | 72W | 5429lm | Ø240xH315 | 24 pcs | 15°,25°,40°,60° | 3000K,4000K(RGBW) |
| ZEKREET 3.5 | 80W | 6516lm | Ø240xH315 | 24 pcs | 15°,25°,40°,60° | 3000K,4000K(RGBW) |

ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL - MOUNTING

ZEKREET
 1.1-1.6
 2.1-2.8
 3.1-3.5

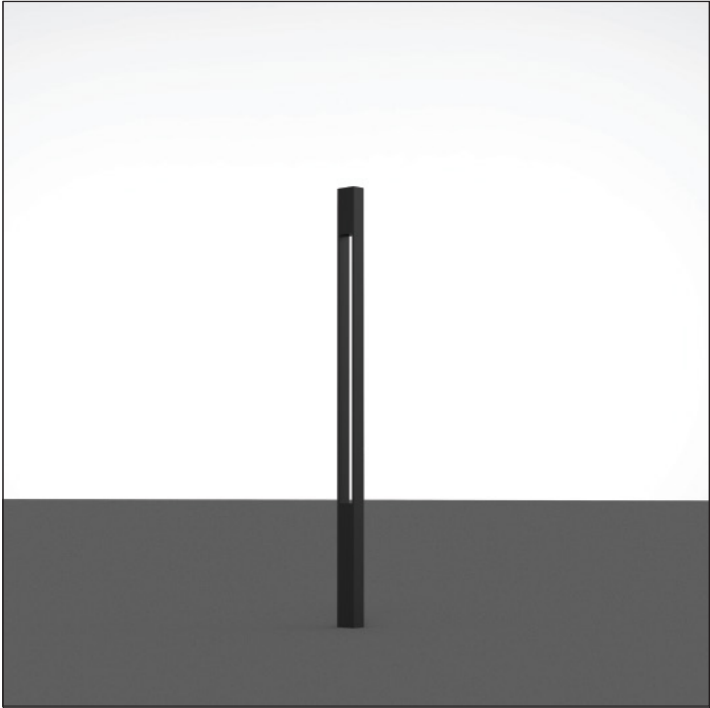
30 3000K
 40 4000K
 RGB
 RGBW

0.3 3.5°
 05 5°
 07 7°
 15 15°
 25 25°
 40 40°
 60 60°

1 ON-OFF
 2 1-10V
 3 DALI
 4 DMX/RDM

ZA1 BASE/SPIKE
 ZA2 EMBEDDED BOX
 ZA3 TUBE
 ZA4 POLE
 ZA5 HOLDER
 ZA6 FLEXIBLE SPRING
 ZA7 MULTIFUNCTIONAL
 ZA8 AREA LIGHT
 ZA9 FLOODLIGHT

QUADRANT SLIM POLE



IP68

IK09

220-240V

5 YRS
Warranty

20 - 30
WATTS

Upon request

1-10V

DALI

PHYSICAL

| | |
|------------|---------------------------|
| Body | Aluminum Extruded Profile |
| Finish | Polyester Powder Coated |
| Dimensions | L150xW100xH3000mm |

OPTICAL

| | |
|--------------------|---------------------------|
| Diffuser | Clear Polycarbonate |
| Light distribution | 2 ways light distribution |

ELECTRICAL

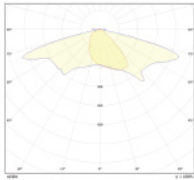
| | |
|-----------------------|---|
| Light source | LED |
| CRI | >70 |
| CCT | 3000K, 4000K, 5000K, 5700K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -40°C ~ +50°C |
| Humidity | 10% - 90%RH |

QUADRANT SLIM POLE series stands out as a dependable option for pathways, landscaped areas, and various public spaces, featuring a rectangular frame, and a 2-way light distribution.

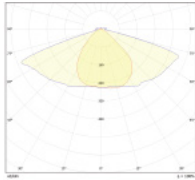
- Glare is effectively minimized through a concealed light source.
- The 2 way light distribution not only efficiently illuminates pathways and areas but also introduces a distinctive visual effect.
- Various height options and a coordinating column make it suitable for high-end architectural projects.
- Its minimalistic design ensures seamless integration with diverse architectural styles.

| Range | Power (W) | Lumen (lm) |
|----------------------|-----------|------------|
| QUADRANT SLIM POLE 1 | 20W | 2700lm |
| QUADRANT SLIM POLE 2 | 25W | 3175lm |
| QUADRANT SLIM POLE 3 | 30W | 3600lm |

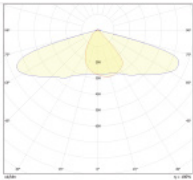
AVAILABLE OPTICS



Type II Short-1



Type II Short-2



Type II Short-3

ORDERING CODE

| SERIES NAME | - | PRODUCT RANGE | - | CCT | - | OPTICS | - | CONTROL |
|--------------------|---|---------------|---|--|---|---|---|-------------------------------|
| QUADRANT SLIM POLE | | 1 2 3 | | 30 3000K 40 4000K 50 5000K 57 5700K | | 1 TYPE II-1 2 TYPE II-2 3 TYPE II-3 | | 1 ON-OFF 2 1-10V 3 DALI |

LUNA POLE



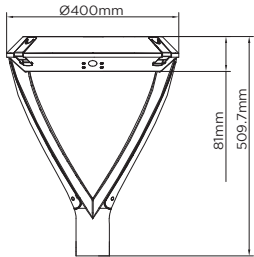
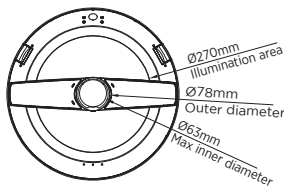
| | | | | |
|--------------|------|----------|-------------------|------------------|
| IP66 | IK08 | 220-240V | 5 YRS Warranty | 30 - 75 WATTS |
| Upon request | | | | |
| 1-10V | DALI | | | |

| | |
|-----------------------|---|
| PHYSICAL | |
| Body | Aluminum alloy |
| Finish | Powder coating black (RAL9005) |
| Dimensions | ø400xH510mm |
| OPTICAL | |
| Diffuser | Tempered glass and PC optical lens |
| Light distribution | More than 10 optics lens for optional |
| ELECTRICAL | |
| Light source | LED |
| CRI | >70 |
| CCT | 3000K, 4000K, 5000K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -30°C ~ +50°C |
| Humidity | 10% ~ 90%RH |

LUNA POLE series serves as the focal point in outdoor landscapes, enhancing the visual appeal. When incorporated into a park or pathway, it not only illuminates various elements of the landscape but also enhances safety by offering consistent ambient lighting, thereby improving visibility for pedestrians.

- Contemporary, architectural design, smooth housing without any screws exposed.
- Super high efficiency to 150lm/w, lumen packages ranging from 11250 - 4500lm.
- A variety of mounting configurations, optic distributions and lumen packages.
- Tool-less opening and incorporation of automatic disconnect for easy, safe access and simple electrical testing or maintenance operations.
- Protection Class I or Class II.
- Two lens configurations: clear and diffuse.

| Range | Power (W) | Lumen (lm) |
|--------|-----------|------------|
| LUNA 1 | 30W | 4500lm |
| LUNA 2 | 50W | 7200lm |
| LUNA 3 | 60W | 8700lm |
| LUNA 4 | 75W | 11100lm |



ORDERING CODE

| SERIES NAME | PRODUCT RANGE | CCT | OPTICS | CONTROL | ACCESSORIES |
|-------------|---------------|----------|--------|----------|-------------------------|
| LUNA | 1 | 30 3000K | LR01 | 1 ON-OFF | NS NEMA SOCKET |
| | 2 | 40 4000K | LR02 | 2 1-10V | PC PHOTOCELL CONTROL |
| | 3 | 50 5000K | LR03 | 3 DALI | SC SHORTING CAP |
| | 4 | | LR04 | | SS SINGLE STRUT |
| | | | LR05 | | TS TWIN STRUT |
| | | | LR06 | | SB STRAIGHT ARM BRACKET |
| | | | LR07 | | SF SLIP FITTER BRACKET |
| | | | LR08 | | GB GOOSENECK BRACKET |
| | | | LR09 | | SB SUSPENSION BRACKET |
| | | | LR10 | | |
| | | | LR11 | | |



Suspension Mount

Single Strut Mount

Post Top Mount



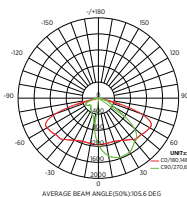
Twin Strut mount

Gooseneck Mount

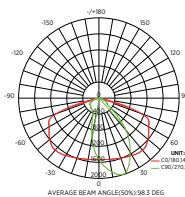


Straight-arm Mount

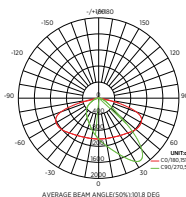
AVAILABLE OPTICS



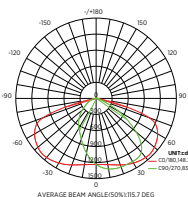
LR01



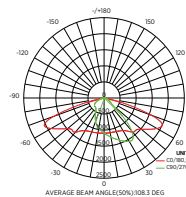
LR02



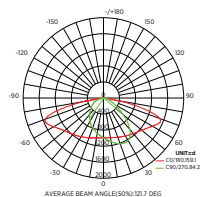
LR03



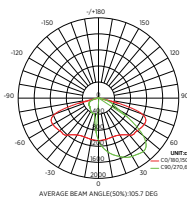
LR04



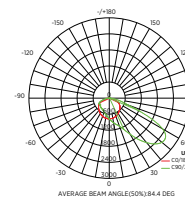
LR05



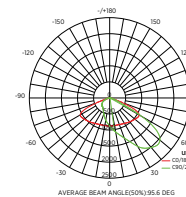
LR06



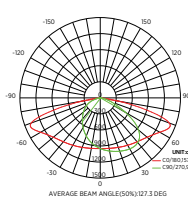
LR07



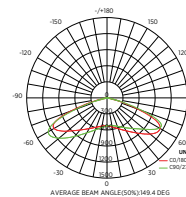
LR08



LR09



LR10



LR11

ACCESSORIES



NEMA SOCKET



PHOTOCELL
CONTROL



SHORTING CAP



SINGLE STRUT



TWIN STRUT



STRAIGHT ARM
BRACKET



SLIP FITTER
BRACKET



GOOSENECK
BRACKET



SUSPENSION
BRACKET

BELL POLE



| | | | | |
|------|------|----------|-------------------|------------------|
| IP66 | IK09 | 220-240V | 5 YRS Warranty | 20 - 60 WATTS |
|------|------|----------|-------------------|------------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|------------|----------------|
| Body | Aluminum alloy |
| Finish | Powder coating |
| Dimensions | ø371xH420mm |

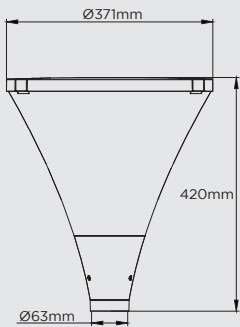
OPTICAL

| | |
|--------------------|---------------------------------------|
| Diffuser | Polycarbonate optical lens |
| Light distribution | More than 10 optics lens for optional |

ELECTRICAL

| | |
|-----------------------|---|
| Light source | LED |
| CRI | >70 |
| CCT | 3000K, 4000K, 5000K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -30°C ~ +50°C |
| Humidity | 10% ~ 90%RH |

BELL POLE series aligns with the contemporary urban trend by incorporating sleek curvature, presenting a neat aesthetic, and ensuring effective heat dissipation. With a clear and fully rounded PC cover, it eliminates blind spots created by Light source arms, contributing to both safety and the visual appeal of urban spaces. It offers a range of control options, adding a touch of intelligence to the latest advancements in urban lighting solutions.



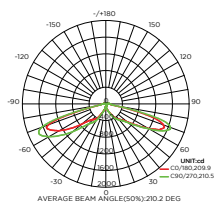
| Range | Power (W) | Lumen (lm) |
|-------------|-----------|------------|
| BELL POLE 1 | 20W | 2400lm |
| BELL POLE 2 | 40W | 4800lm |
| BELL POLE 3 | 60W | 7200lm |

ORDERING CODE

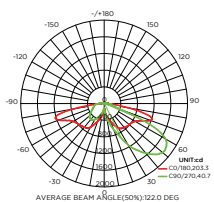
| SERIES NAME | PRODUCT RANGE | CCT | OPTICS | CONTROL | ACCESSORIES |
|-------------|---------------|----------|--------|----------|-----------------------|
| BELL | 1 | 30 3000K | BP01 | 1 ON-OFF | NS NEMA SOCKET |
| | 2 | 40 4000K | BP02 | 2 1-10V | PC PHOTOCELL CONTROL |
| | 3 | 50 5000K | BP03 | 3 DALI | SC SHORTING CAP |
| | | | BP04 | | MS MOTION SENSOR |
| | | | BP05 | | Z ZHAGA |
| | | | BP06 | | RC REMOTE CONTROL |
| | | | BP07 | | DC PC DIFFUSION COVER |
| | | | BP08 | | WA WALL MOUNT ADAPTOR |



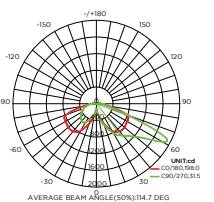
AVAILABLE OPTICS



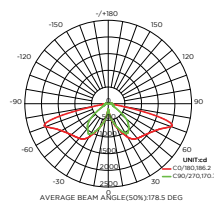
BP01



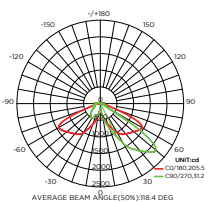
BP02



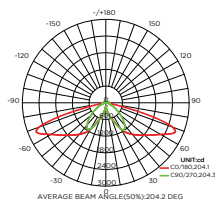
BP03



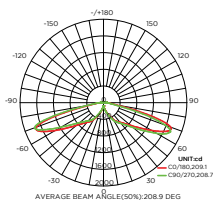
BP04



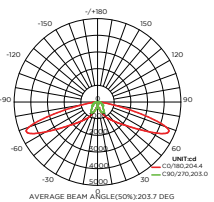
BP05



BP06



BP07



BP08

ACCESSORIES



NEMA SOCKET



PHOTOCELL
CONTROL



SHORTING CAP



BUILT IN
MOTION
SENSOR



ZHAGA



REMOTE
CONTROL



PC DIFFUSION
COVER



WALL MOUNT
ADAPTOR

TORCH POLE



| | | | | |
|------|------|----------|-------------------|-----------------|
| IP66 | IK08 | 220-240V | 5 YRS Warranty | 40-100 WATTS |
|------|------|----------|-------------------|-----------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|------------|----------------------|
| Body | Die Casting Aluminum |
| Finish | Powder coating |
| Dimensions | ø450xH526mm |

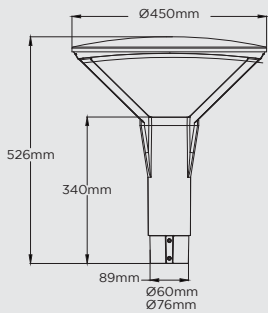
OPTICAL

| | |
|--------------------|------------------------------------|
| Diffuser | Tempered glass and PC optical lens |
| Light distribution | 7 optics lens for optional |

ELECTRICAL

| | |
|-----------------------|---|
| Light source | LED |
| CRI | >70 |
| CCT | 3000K, 4000K, 5000K |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -30°C ~ +50°C |
| Humidity | 10% - 90%RH |

TORCH POLE aligns with the contemporary trend of urban diversity through its sleek curvature. It is conveniently used in courtyards, private and public gardens, streets and walkways, offering lumen packages ranging from 4800-12000lm. To meet the demands of different outdoor scenarios, **TORCH POLE** boasts a signifying robust durability against external impacts. This resilience makes **TORCH POLE** a reliable choice for outdoor spaces, capable of withstanding the challenges posed by weather conditions. Moreover, **TORCH POLE** provides a wide range of optics, allowing users to customize the lighting experience based on the requirements of each setting.



ORDERING CODE

| SERIES NAME | PRODUCT RANGE | CCT | OPTICS | CONTROL | ACCESSORIES |
|-------------|---------------|----------|--------|----------|-----------------------|
| TORCH | 1 | 30 3000K | TP01 | 1 ON-OFF | TA POST TOP ADAPTOR |
| | 2 | 40 4000K | TP02 | 2 1-10V | WA WALL MOUNT ADAPTOR |
| | 3 | 50 5000K | TP03 | 3 DALI | |
| | 4 | | TP04 | | |
| | | | TP05 | | |
| | | | TP06 | | |
| | | | TP07 | | |

ACCESSORIES

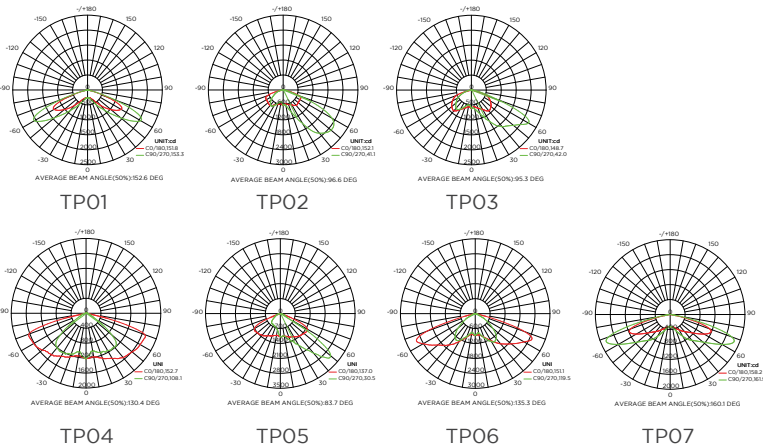


Post top
mount adaptor



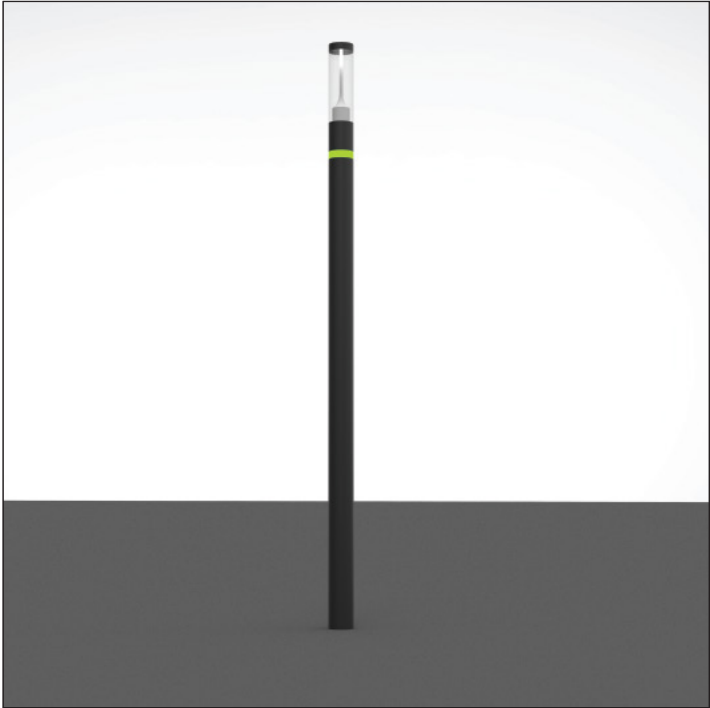
Wall mount
adaptor

AVAILABLE OPTICS



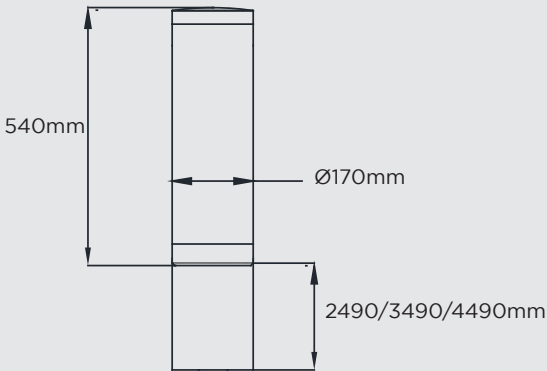


FLAME POLE



FLAME POLE series of poles with minimal design available in various heights. Designed to illuminate paths, parks, walkways and gardens without glaring. The external screws are in stainless steel 316L.

Available 3 to 6 meters height.



ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL

| | | | | |
|-------|---|----------|--------|----------|
| FLAME | 1 | 30 3000K | 1 FP01 | 1 ON-OFF |
| | 2 | 40 4000K | 2 FP02 | 2 1-10V |
| | 3 | AMBER | | 3 DALI |

| | | | | |
|------|------|----------|-------------------|------------------|
| IP65 | IK08 | 220-240V | 5 YRS Warranty | 30 - 50 WATTS |
|------|------|----------|-------------------|------------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|------------|----------------------|
| Body | Die Casting Aluminum |
| Finish | Powder coating |
| Dimensions | Ø170xH540mm |

OPTICAL

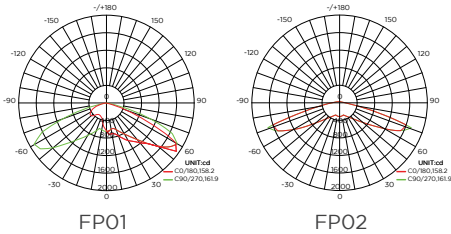
| | |
|--------------------|---------------------------|
| Diffuser | Opal Polycarbonate |
| Light distribution | 2 ways light distribution |

ELECTRICAL

| | |
|-----------------------|---|
| Light source | LED |
| CRI | >70 |
| CCT | 3000K, 4000K, Amber color |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -35°C ~ +50°C |
| Humidity | 10% ~ 95%RH |

| Range | Power (W) | Lumen (lm) |
|--------------|-----------|------------|
| FLAME POLE 1 | 30W | 3900lm |
| FLAME POLE 2 | 40W | 5200lm |
| FLAME POLE 3 | 50W | 6500lm |

AVAILABLE OPTICS



HALO POLE



| | | | | |
|------|------|----------|-------------------|-----------------|
| IP66 | IK09 | 220-240V | 5 YRS Warranty | 20-100 WATTS |
|------|------|----------|-------------------|-----------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|------------|----------------------|
| Body | Die Casting Aluminum |
| Finish | Powder coating |
| Dimensions | ø170xH540mm |

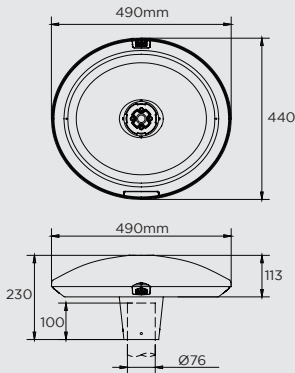
OPTICAL

| | |
|--------------------|---------------------------|
| Diffuser | Opal Polycarbonate |
| Light distribution | 2 ways light distribution |

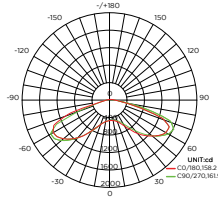
ELECTRICAL

| | |
|-----------------------|---|
| Light source | LED |
| CRI | >70 |
| CCT | 3000K, 4000K, Amber color |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Operating Temperature | -35°C ~ +50°C |
| Humidity | 10% ~ 95%RH |

HALO post-top crafted for pathways, parks, walkways, and gardens with a gentle radiance. Its celestial design not only captivates the eye but also ensures a seamless integration into any outdoor environment, effortlessly enhancing its surroundings. Crafted with precision, the external screws boast the durability of stainless steel 316L, promising longevity against the elements. Available in heights ranging from 3 to 6 meters, and wattages from 20 to 100W, our Halo fixture offers versatility tailored to diverse lighting needs, all while eliminating glare and preserving the ambiance of outdoor spaces.



AVAILABLE OPTICS

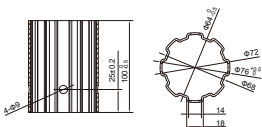


ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL

| | | | | |
|------|---|----------|--------|----------|
| HALO | 1 | 30 3000K | 1 HP01 | 1 ON-OFF |
| | 2 | 40 4000K | | 2 1-10V |
| | 3 | AMBER | | 3 DALI |
| | 4 | | | |
| | 5 | | | |
| | 6 | | | |
| | 7 | | | |
| | 8 | | | |
| | 9 | | | |

ACCESSORIES



Adaptor





MAHA

BEYOND the name ...

MAHA has been considered a symbol of beauty by the inhabitants of the Arabian Peninsula for centuries. With their huge horns and elegant body, they are of great cultural importance in the Gulf. As the MAHA is the largest antelope in the region, it has great endurance that enables it to live in one of the most harsh natural environments in the world.

Qatar took to preserve the MAHA, what was known as the Maha Operation (Resettlement of MAHA), which paved the way for the breeding of significant numbers of these animals while restricting their freedom, and then they were kept in special groups until they were finally released into the wild in 1982.

It is where MAHA breeds in Qatar, and after a tour within this reserve, visitors will be able to understand the nature of this elegant Oryx and appreciate its importance



MAHA SERIES

MAHA SURFACE SERIES



| | | | | |
|------|------|----------|-------------------|----------------|
| IP66 | IK10 | 220-240V | 5 YRS Warranty | 14-40 WATTS |
|------|------|----------|-------------------|----------------|

Upon request

| | |
|-------|------|
| 1-10V | DALI |
|-------|------|

PHYSICAL

| | |
|------------|--------------------------------|
| Body | Aluminum alloy |
| Finish | Powder coating Black (RAL9005) |
| Dimensions | L238 W138.5xH212mm |

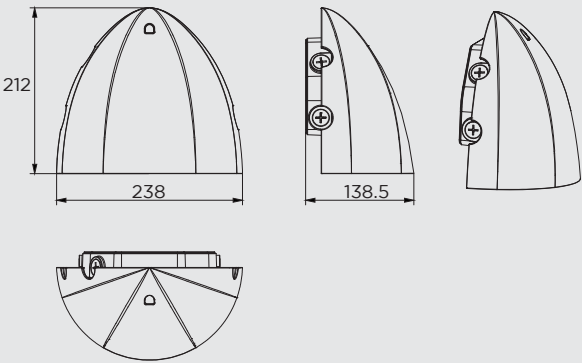
OPTICAL

| | |
|----------------|---------------|
| Diffuser | Polycarbonate |
| Light Emission | Asymmetrical |

ELECTRICAL

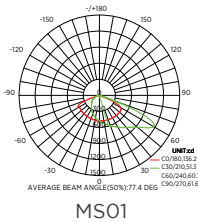
| | |
|------------------|---|
| Light source | LED |
| CCT | 3000K - 4000K - 5000K |
| CRI | >70 (>80 optional) |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Ambient Temp. | -30°C ~ 50°C |
| Ambient Humidity | 10% ~ 90% |

MAHA surface series is a refined design and an ideal lighting solution for multiple outdoor locations, including building exteriors, outdoor walkways, garages, and pathways. Notably energy-efficient, this fixture delivers a bright light output, guaranteeing optimal visibility and comfort. Moreover, its full cut-off asymmetrical optic design facilitates efficient light control, preventing any upward light emission and meeting the rigorous market standards.



| Range | Power (W) | Lumen (lm) |
|----------------|-----------|------------|
| MAHA SURFACE 1 | 14W | 1890lm |
| MAHA SURFACE 2 | 25W | 3375lm |
| MAHA SURFACE 3 | 40W | 5400lm |

AVAILABLE OPTICS



ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL

| | | | | |
|--------------|-------------|----------------------------------|--------|---------------------|
| MAHA SURFACE | 1 2 3 | 30 3000K 40 4000K 50 5000K | 1 MS01 | 1 ON-OFF 2 1-10V |
|--------------|-------------|----------------------------------|--------|---------------------|



BEYOND the name ...

Al Koot Fort most commonly known as the Doha Fort, is a historical military fortress located in the heart of Doha, Qatar's capital city. It was built in 1927 by Sheikh Abdulla bin Qassim Al Thani, better known as Sheikh Abdullah bin Jassim Al Thani, who ruled Qatar from 1913 until 1949, after Sheikh Mohammed bin Jassim Al Thani, Sheikh Abdullah's brother, abdicated in favor of him. The fort was later converted into a museum. Qatari traditional handicrafts, products and photos of daily life with illustrations are housed in the fort. Exhibits and artworks include handicrafts, gypsum and wooden ornaments, fishing equipment and boats, historical photos and paintings including oil paintings of craft workers and daily life.

The Al Koot Fort is located in the Al Bidda neighborhood, in the midst of the famous Souq Waqif, near Doha Corniche, and is now a preferred landmark, museum and tourist spot, most especially for foreigners.



KOOT

KOOT SERIES



KOOT SERIES



KOOT ADJUSTABLE 1
20-30W



KOOT ADJUSTABLE 2
30-50W



KOOT ADJUSTABLE 3
60-100W



KOOT ADJUSTABLE 4
7-11W



KOOT ADJUSTABLE 5
14-28W



KOOT ADJUSTABLE 6
21-45W



KOOT BLADE
30w



KOOT GRAZER 1
18-30W



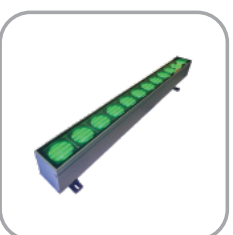
KOOT GRAZER 2
36-60W



KOOT GLOW
8-45W



KOOT GRAZER ROUND
10W



KOOT PRO
20-160W

KOOT ADJUSTABLE SERIES



KOOT ADJUSTABLE series consists of a range of LED sources to deliver the desired light effect to façades, columns, bridges, monuments, and signs. 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.

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 Aluminum body of the fixture so that the entire fixture acts as a heat sink.

This unique design can be adjusted easily from the outside without the need to open it, using an Allen key.

IP67

IK10

220-240V

5 YRS
Warranty

7-100
WATTS

Upon request

1-10V

DALI

DMX

RGB

PHYSICAL

| | |
|----------------|----------------------|
| Body | Aluminum Alloy |
| Frame | Stainless Steel 316L |
| Recessing tube | Aluminum Alloy |

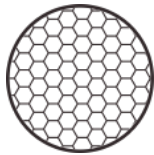
OPTICAL

| | |
|----------------|----------------|
| Diffuser | Tempered Glass |
| Light Emission | Adjustable |
| Aiming | Fixed |
| CRI | >80 |

ELECTRICAL

| | |
|------------------|---|
| CCT | 3000K - 4000K (RGB available on request) |
| Driver | Electronic included 50-60Hz 220-240VAC Non-Dimmable Driver 1-10V dimming or DALI on request |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% ~ 90% |

ACCESSORIES



Honeycomb Grill



Anti-Slip Glass

KOOT ADJUSTABLE 1

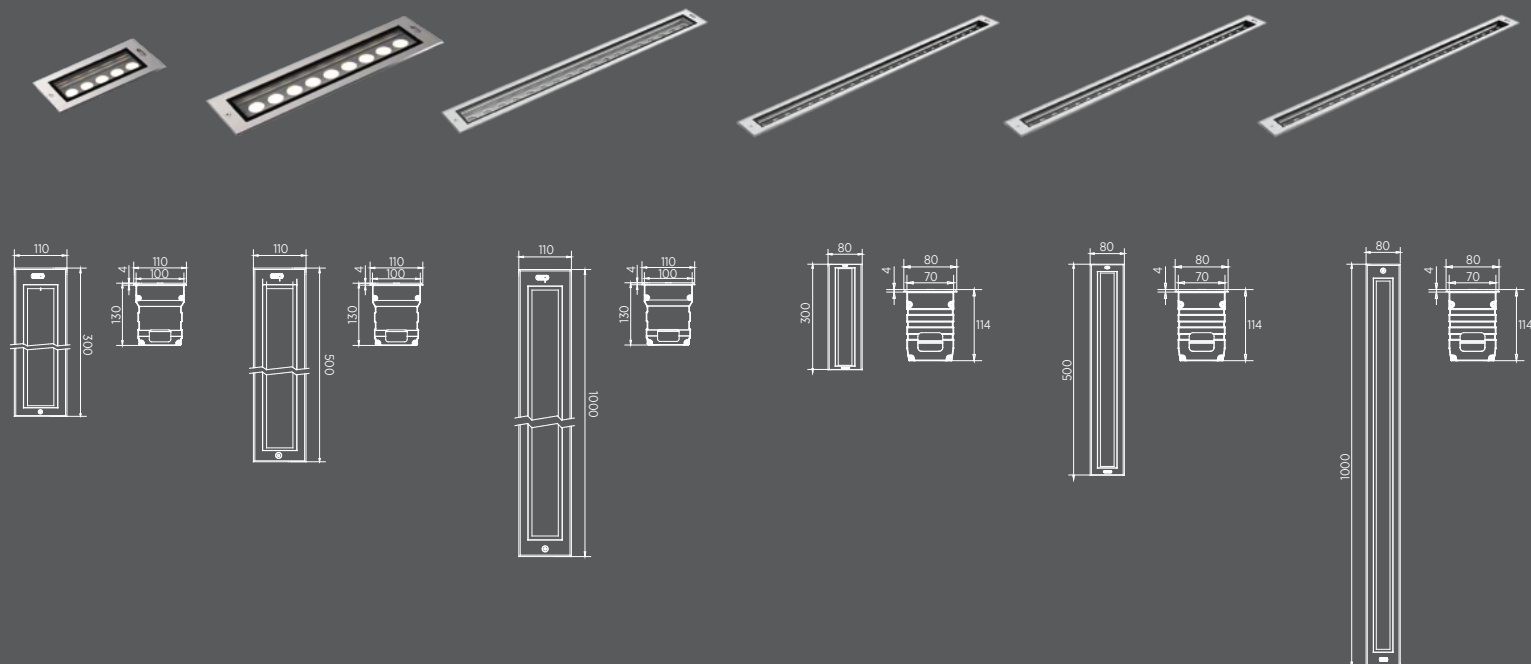
KOOT ADJUSTABLE 2

KOOT ADJUSTABLE 3

KOOT ADJUSTABLE 4

KOOT ADJUSTABLE 5

KOOT ADJUSTABLE 6



PRODUCT RANGE

| | Rated Power(W) | Lumen(lm) | Dimensions(mm) | LED Quantity(pcs) | Beam angle |
|---------------------|----------------|-----------|-----------------|-------------------|--|
| KOOT ADJUSTABLE 1.1 | 20W | 1400lm | L300xW110xH130 | 5 pcs | 6°,12°,20°,30°,40°,60°,10X70°,5X20° |
| KOOT ADJUSTABLE 1.2 | 30W | 2100lm | L300xW110xH130 | 5 pcs | 6°,12°,20°,30°,40°,60°,10X70°,5X20° |
| KOOT ADJUSTABLE 1.3 | 30W | 2100lm | L300xW110xH130 | 5 pcs | 2.5° |
| KOOT ADJUSTABLE 2.1 | 30W | 2100lm | L500xW110xH130 | 10 pcs | 6°,12°,20°,30°,40°,60°,10X70°,5X20° |
| KOOT ADJUSTABLE 2.2 | 50W | 3500lm | L500xW110xH130 | 10 pcs | 6°,12°,20°,30°,40°,60°,10X70°,5X20° |
| KOOT ADJUSTABLE 2.3 | 50W | 3500lm | L500xW110xH130 | 10 pcs | 2.5° |
| KOOT ADJUSTABLE 3.1 | 60W | 4200lm | L1000xW110xH130 | 20 pcs | 6°,12°,20°,30°,40°,60°,10X70°,5X20° |
| KOOT ADJUSTABLE 3.2 | 100W | 7000lm | L1000xW110xH130 | 20 pcs | 6°,12°,20°,30°,40°,60°,10X70°,5X20° |
| KOOT ADJUSTABLE 3.3 | 100W | 7000lm | L1000xW110xH130 | 20 pcs | 2.5° |
| KOOT ADJUSTABLE 4.1 | 7W | 490lm | L300xW80xH114 | 6 pcs | 8°,12.5°,20°,30°,45°,60°,15X30°,10X60° |
| KOOT ADJUSTABLE 4.2 | 11W | 770lm | L300xW80xH114 | 9 pcs | 8°,12.5°,20°,30°,45°,60°,15X30°,10X60° |
| KOOT ADJUSTABLE 5.1 | 11W | 770lm | L500xW80xH114 | 9 pcs | 8°,12.5°,20°,30°,45°,60°,15X30°,10X60° |
| KOOT ADJUSTABLE 5.2 | 14W | 980lm | L500xW80xH114 | 12 pcs | 8°,12.5°,20°,30°,45°,60°,15X30°,10X60° |
| KOOT ADJUSTABLE 5.3 | 28W | 1960lm | L500xW80xH114 | 12 pcs | 8°,12.5°,20°,30°,45°,60°,15X30°,10X60° |
| KOOT ADJUSTABLE 6.1 | 21W | 1470lm | L1000xW80xH114 | 18 pcs | 8°,12.5°,20°,30°,45°,60°,15X30°,10X60° |
| KOOT ADJUSTABLE 6.2 | 28W | 1960lm | L1000xW80xH114 | 24 pcs | 8°,12.5°,20°,30°,45°,60°,15X30°,10X60° |
| KOOT ADJUSTABLE 6.3 | 45W | 3150lm | L1000xW80xH114 | 24 pcs | 8°,12.5°,20°,30°,45°,60°,15X30°,10X60° |

*The lumen output may vary depending on the beam angle, and the use of anti-glare accessory.

ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL

KOOT ADJUSTABLE

1.1-1.3
2.1-2.3
3.1-3.3
4.1-4.2
5.1-5.3
6.1-6.3

27 2700K
30 3000K
40 4000K
65 6500K

Refer to
above table

1 ON-OFF
2 1-10V
3 DALI

KOOT BLADE



Upon request



PHYSICAL

| | |
|------------|------------------------------------|
| Body | Aluminum Extruded Profile |
| Finish | Anodized oxidation & double coated |
| Dimensions | L475xW75xH90mm |

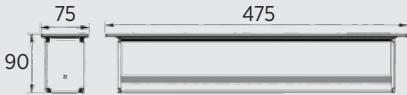
OPTICAL

| | |
|--------------------|---------------------------|
| Diffuser | Tempered glass |
| Light Distribution | 3x180° blade effect optic |

ELECTRICAL

| | |
|-----------------------|---|
| Light source | LED |
| Lumen | 900lm |
| CRI | >80 |
| CCT | 3000K-4000K-5000K |
| Driver | Constant voltage 24V DC remote driver needed 1-10V or DALI available on request |
| Operating Temperature | -40°C ~ +50°C |
| Humidity | 10% ~ 90%RH |

KOOT BLADE is a recessed luminaire with 180° light emissions, an ideal lighting solution for arches and windows. This type of luminaire is designed to be installed inside a recessed area, providing a sleek and seamless appearance that complements the architecture of the space. The 180° light emission ensures that light is evenly distributed in all 3 directions, effectively illuminating the entire surrounding area. This feature is especially useful for arches and windows, as it can provide a soft and diffused glow that accentuates the curves and contours of these architectural elements. Additionally, a recessed luminaire with 180° light emissions can be used to create a dramatic effect by highlighting the texture and details of the surrounding surfaces, adding depth and dimension to the space.



ORDERING CODE

SERIES NAME - CCT - CONTROL

KOOT BLADE 30 3000K 1 ON-OFF
 40 4000K 2 1-10V
 50 5000K 3 DALI
 RGB RGB

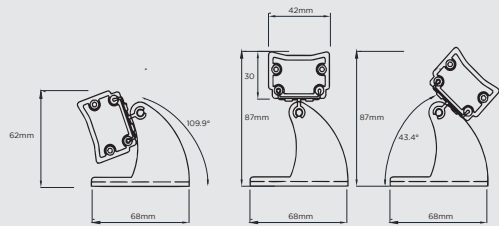
KOOT GRAZER 1



KOOT GRAZER consists of a range of LED sources to deliver the desired light effect to façades, columns, bridges, monuments, and signs. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 10° to 90° are available.

THERMAL MANAGEMENT

All fixtures are designed to withstand ambient temperatures of at least 50 °C. The LEDs are mounted on metal core PCBs with excellent heat conductivity aluminum coefficient of heat conductivity $\geq 2.0\text{w/mk}$.



ORDERING CODE

SERIES NAME - PRODUCT RANGE - FINISH - CCT - OPTICS - CONTROL

| | | | | | |
|---------------|---|---------|----------|-------------|----------|
| KOOT GRAZER I | 1 | G GREY | 30 3000K | 10 10° | 1 ON-OFF |
| | 2 | B BLACK | 40 4000K | 15 15° | 2 DALI |
| | 3 | | 50 5000K | 45 45° | 3 DMX512 |
| | | | RGB | 90 90° | |
| | | | RGBW | 1030 10x30° | |
| | | | | 2045 20x45° | |
| | | | | 1565 15x65° | |
| | | | | 1545 15x45° | |

| | | | |
|------|-------|-------------------|------------------|
| IP66 | 24Vdc | 5 YRS Warranty | 18 - 30 WATTS |
|------|-------|-------------------|------------------|

Upon request

| | | | | | |
|-------|------|-----|---------------|-----|------|
| 1-10V | DALI | DMX | MONO COLOR | RGB | RGBW |
|-------|------|-----|---------------|-----|------|

PHYSICAL

| | |
|------------|--|
| Body | High corrosion resistance die-cast copper-free |
| Finish | Polyester powder coating with phosphochromating pre-finish Grey/Black (Other colors upon request) |
| Screws | Stainless Steel 316 |
| Gasket | Silicone rubber |
| Dimensions | L1000xW42xH87 mm |

OPTICAL

| | |
|------------|---|
| Diffuser | Tempered Glass |
| Beam Angle | 10°,15°,45°,90°,10x30°,20x45°,15x65°,15x45° |
| Bracket | Adjustable |
| CRI | >80 |

ELECTRICAL

| | |
|-------------------|--|
| Light source | LED CREE |
| Lumen | 104 lm/W |
| CCT | 3000K, 4000K, 5000K, RGB, RGBW |
| Driver | 24Vdc remote driver to be ordered separately |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% ~ 90% |
| Light source Life | 50,000 h |

| Range | Power (W) | Lumen (lm) |
|-----------------|-----------|------------|
| KOOT GRAZER 1.1 | 18W | 1872lm |
| KOOT GRAZER 1.2 | 24 W | 2496lm |
| KOOT GRAZER 1.3 | 30 W | 3120lm |

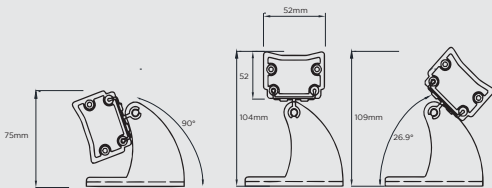
KOOT GRAZER 2



KOOT GRAZER consists of a range of LED sources to deliver the desired light effect to façades, columns, bridges, monuments, and signs. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 10° to 90° are available.

THERMAL MANAGEMENT

All fixtures are designed to withstand ambient temperatures of at least 50 °C. The LEDs are mounted on metal core PCBs with excellent heat conductivity aluminum coefficient of heat conductivity $\geq 2.0\text{w/mk}$.



ORDERING CODE

SERIES NAME - PRODUCT RANGE - FINISH - CCT - OPTICS - CONTROL

| | | | | | |
|---------------|---|---------|----------|-------------|----------|
| KOOT GRAZER 2 | 1 | G GREY | 30 3000K | 10 10° | 1 ON-OFF |
| | 2 | B BLACK | 40 4000K | 45 45° | 2 DALI |
| | 3 | | 50 5000K | 90 90° | 3 DMX512 |
| | | | RGB | 1030 10x30° | |
| | | | RGBW | 2045 20x45° | |
| | | | | 1565 15x65° | |
| | | | | 1545 15x45° | |

| | | | |
|------|----------|-------------------|------------------|
| IP66 | 220-240V | 5 YRS Warranty | 36 - 60 WATTS |
|------|----------|-------------------|------------------|

Upon request

| | | | | | |
|-------|------|-----|---------------|-----|------|
| 1-10V | DALI | DMX | MONO COLOR | RGB | RGBW |
|-------|------|-----|---------------|-----|------|

PHYSICAL

| | |
|------------|--|
| Body | High corrosion resistance die-cast copper-free |
| Finish | Polyester powder coating with phosphochromating pre-finish Grey/Black (Other colors upon request) |
| Screws | Stainless Steel 316 |
| Gasket | Silicone rubber |
| Dimensions | L1000xW52xH109 mm |

OPTICAL

| | |
|------------|---|
| Diffuser | Tempered Glass |
| Beam Angle | 10°,45°,90°,10x30°,20x45°,15x65°,15x45° |
| Bracket | Adjustable |
| CRI | >80 |

ELECTRICAL

| | |
|-------------------|--|
| Light source | LED |
| Lumen | 80 lm/W |
| CCT | 3000K, 4000K, 5000K, RGB, RGBW |
| Driver | 24Vdc remote driver to be ordered separately |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% ~ 90% |
| Light source Life | 50,000 h |

| Range | Power (W) | Lumen (lm) |
|-----------------|-----------|------------|
| KOOT GRAZER 2.1 | 36W | 2880lm |
| KOOT GRAZER 2.2 | 48W | 3840lm |
| KOOT GRAZER 2.3 | 60W | 4800lm |

KOOT GLOW SERIES



IP66

IK08

24Vdc

5 YRS
Warranty

8-48
WATTS

Upon request

1-10V

DALI

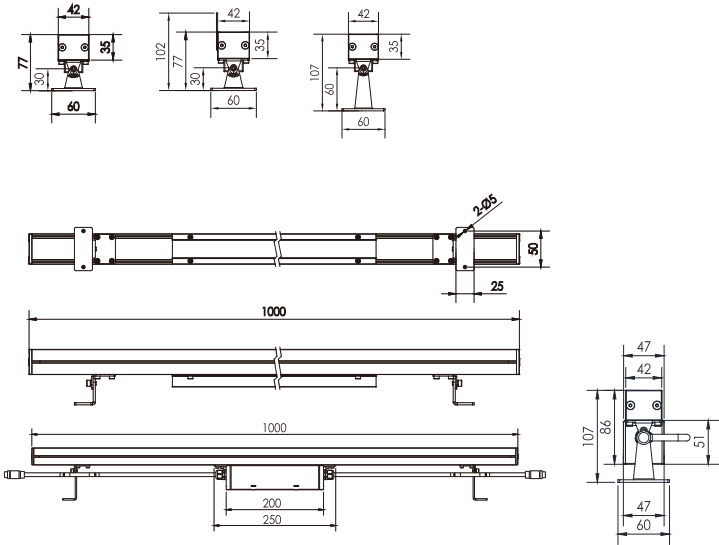
DMX

RGB

RGBW

| | |
|-------------------|--|
| PHYSICAL | |
| Body | Aluminum Alloy |
| Finish | Anodizing treatment |
| OPTICAL | |
| Diffuser | Tempered Glass |
| Aiming | Fixed |
| CRI | >80 |
| ELECTRICAL | |
| Light source | LED |
| CCT | 3000K, 4000K, 5000K, RGB, RGBW |
| Gear | Integrated LED driver 220-240V 50/60Hz |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% - 90% |

KOOT GLOW consists of a range of LED sources to deliver the desired light effect to façades, columns, bridges, monuments, and signs. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 8° to 60° are available. All fixtures are designed to withstand ambient temperatures of at least 50°C.



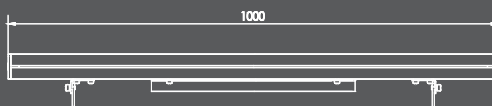
KOOT GLOW 1



KOOT GLOW 2



KOOT GLOW 3



| KOOT GLOW SERIES | Rated Power(W) | Dimensions(mm) | LED Brand | LED Quantity(pcs) | CCT(K) | Beam angle |
|------------------|----------------|----------------|----------------------|-------------------|------------|----------------------------------|
| KOOT GLOW 1.1 | 8W | L300xW42xH35 | LUMILEDS | 8 pcs | Single/RGB | 15°,20°,30°,60°,15x30°,10x60° |
| KOOT GLOW 1.2 | 12W | L300xW42xH35 | CREE/OSRAM RGBW 4IN1 | 6 pcs | RGBW | 20°,45°,60°,15x60° |
| KOOT GLOW 2.1 | 9W | L500xW42xH35 | LUMILEDS | 9 pcs | Single/RGB | 15°,20°,30°,60°,15x30°,15x60° |
| KOOT GLOW 2.2 | 12W | L500xW42xH35 | LUMILEDS | 12 pcs | Single/RGB | 15°,20°,30°,60°,15x30°,15x60° |
| KOOT GLOW 2.3 | 18W | L500xW42xH35 | LUMILEDS | 18 pcs | Single/RGB | 15°,20°,30°,60°,15x30°,15x60° |
| KOOT GLOW 2.4 | 18W | L500xW42xH35 | CREE/OSRAM RGBW 4IN1 | 9 pcs | RGBW | 20°,45°,60°,15x60° |
| KOOT GLOW 2.5 | 24W | L500xW42xH35 | CREE/OSRAM RGBW 4IN1 | 12 pcs | Single/RGB | 20°,45°,60°,15x60° |
| KOOT GLOW 3.1 | 18W | L1000xW42xH35 | LUMILEDS | 18 pcs | Single/RGB | 8°,15°,20°,30°,60°,15x30°,15x60° |
| KOOT GLOW 3.2 | 24W | L1000xW42xH35 | LUMILEDS | 24 pcs | Single/RGB | 8°,15°,20°,30°,60°,15x30°,15x60° |
| KOOT GLOW 3.3 | 36W | L1000xW42xH35 | LUMILEDS | 36 pcs | Single/RGB | 8°,15°,20°,30°,60°,15x30°,15x60° |
| KOOT GLOW 3.4 | 36W | L1000xW42xH35 | CREE/OSRAM RGBW 4IN1 | 18 pcs | RGBW | 20°,45°,60°,15x60°,15x25° |
| KOOT GLOW 3.5 | 48W | L1000xW42xH35 | CREE/OSRAM RGBW 4IN1 | 24 pcs | RGBW | 20°,45°,60°,15x60°,15x25° |
| KOOT GLOW 3.6 | 48W | L1000xW42xH35 | RGBWCL 6in1 | 24 pcs | RGBWCL | 30°,45°,60°,30x60° |

*The lumen output may vary depending on the beam angle.

ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL

| | | | | |
|-----------|-----|----------|-------------|----------|
| KOOT GLOW | 1.1 | 30 3000K | Refer to | 1 ON-OFF |
| | 1.2 | 40 4000K | above table | 2 1-10V |
| | 2.1 | 50 5000K | | 3 DALI |
| | 2.2 | RGB | | 4 DMX512 |
| | 2.3 | RGBW | | |
| | 2.4 | | | |
| | 2.5 | | | |
| | 3.1 | | | |
| | 3.2 | | | |
| | 3.3 | | | |
| | 3.4 | | | |
| | 3.5 | | | |
| | 3.6 | | | |

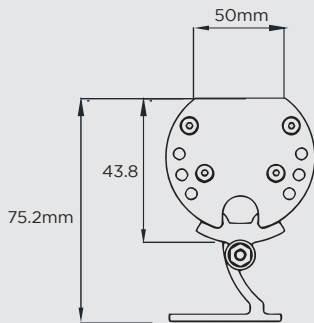
KOOT GRAZER ROUND



KOOT GRAZER ROUND consists of a range of LED sources to deliver the desired light effect to façades, columns, bridges, monuments, and signs. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 10° till 60° are available.

THERMAL MANAGEMENT













All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core PCBs with excellent heat conductivity aluminum coefficient of heat conductivity $\geq 2.0\text{w/mk}$.



ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL

| | | | | | | | |
|-------------|---|----|-------|------|--------|---|--------|
| KOOT GRAZER | 1 | 30 | 3000K | 10 | 10° | 1 | ON-OFF |
| ROUND | 2 | 40 | 4000K | 15 | 15° | 2 | DALI |
| | 3 | 50 | 5000K | 30 | 30° | 3 | DMX512 |
| | | | RGBW | 45 | 45° | | |
| | | | TW | 60 | 60° | | |
| | | | | 1545 | 15x45° | | |
| | | | | 1060 | 10x60° | | |

| | | | | | | |
|---|--|---|--|---|---|--|
|  IP67 |  IK05 |  24Vdc |  5 YRS Warranty |  10-48 WATTS | | |
| Upon request | | | | | | |
|  1-10V |  DALI |  DMX |  TUNABLE WHITE |  MONO COLOR |  RGB |  RGBW |

PHYSICAL

| | |
|------------|--------------------------|
| Body | Extruded Aluminum 6063 |
| Finish | Epoxy coated or anodized |
| Screws | Stainless Steel |
| Gasket | Silicone rubber |
| Dimensions | L1000xW50xH44 mm |

OPTICAL

| | |
|------------|-----------------------------------|
| Diffuser | 4mm Ultra-clear glass |
| Beam Angle | 10°,15°,30°,45°,60°,15x45°,10x60° |
| Bracket | Adjustable |
| CRI | >80 |

ELECTRICAL

| | |
|-------------------|--|
| Light source | LED |
| CCT | 3000K, 4000K, 5000K, RGBW, Tunable white(2700K-6000K) |
| Driver | 24Vdc (remote driver to be ordered separately) |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% ~ 90% |
| Light source Life | 50,000 h |

| Range | Power (W) | Lumen (lm) |
|---------------------|--------------|---------------------|
| KOOT GRAZER ROUND 1 | 10W | 900lm (Mono color) |
| KOOT GRAZER ROUND 2 | 30W | 2700lm (Mono color) |
| KOOT GRAZER ROUND 3 | 48W | Tunable white |



KOOT PRO



| | | | | |
|--------------|------|----------|-------------------|-----------------|
| IP66 | IK08 | 220-240V | 5 YRS Warranty | 20-160 WATTS |
| Upon request | | | | |
| 1-10V | DALI | DMX | MONO COLOR | RGBW |

PHYSICAL

| | |
|------------|--------------------|
| Body | Aluminum |
| Dimensions | L1000xW100xH150 mm |

OPTICAL

| | |
|----------|----------------|
| Diffuser | Tempered Glass |
| CRI | >80 |

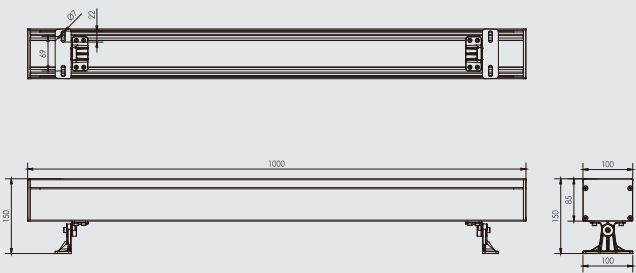
ELECTRICAL

| | |
|-------------------|---------------------------|
| Light source | LED |
| CCT | 3000K, 4000K, 5000K, RGBW |
| Ambient Temp. | -25°C ~ 50°C |
| Ambient Humidity | 10% ~ 90% |
| Light source Life | 80,000 h |

KOOT PRO consists of a range of LED sources to deliver the desired light effect to façades, columns, bridges, monuments, and signs. The LEDs used come in single colors, as well as RGBW.

THERMAL MANAGEMENT

All fixtures are designed to withstand ambient temperatures of at least 50 °C with excellent heat conductivity.



| Range | Power (W) | CCT (K) | LED Quantity | Beam angle | Lumen (lm) |
|------------|-----------|---------|--------------|---------------|------------|
| KOOT PRO 1 | 20W | Single | 3 pcs | 1.5°, 1.5x40° | 1200lm |
| KOOT PRO 2 | 40W | RGBW | 3 pcs | 4° | 1200lm |
| KOOT PRO 3 | 50W | Single | 6 pcs | 1.5°, 1.5x40° | 3000lm |
| KOOT PRO 4 | 80W | RGBW | 6 pcs | 4° | 2400lm |
| KOOT PRO 5 | 100W | Single | 12 pcs | 1.5°, 1.5x40° | 6000lm |
| KOOT PRO 6 | 160W | RGBW | 12 pcs | 4° | 4800lm |

ORDERING CODE

SERIES NAME - PRODUCT RANGE - CCT - OPTICS - CONTROL

| | | | | |
|----------|---|----------|-------------|--------------|
| KOOT PRO | 1 | 30 3000K | Refer to | 1 1-10V |
| | 2 | 40 4000K | above table | 2 ON-OFF |
| | 3 | 50 5000K | | 3 DALI |
| | 4 | RGBW | | 4 DMX512/RDM |
| | 5 | | | |
| | 6 | | | |





GLOW RAIL SERIES

GLOW RAIL SERIES



GLOW RAIL LINEAR
(SQ)



GLOW RAIL LINEAR
(R)



GLOW RAIL DOT

GLOW RAIL LINEAR (SQ)



| | | | | |
|------|------|-------|-------------------|------------|
| IP65 | IK09 | 24Vdc | 5 YRS Warranty | 4 WATTS |
|------|------|-------|-------------------|------------|

Upon request

| | |
|-----|-------|
| RGB | RGB W |
|-----|-------|

PHYSICAL

| | |
|-----------------|---------------------|
| Body | Aluminum |
| Finish | Silver grey / Black |
| Dimensions | L110xW30xH30 mm |
| Hole for groove | L102xW28 mm |

OPTICAL

| | |
|------------|-----------|
| Beam Angle | 10x110° |
| Aiming | Symmetric |
| CRI | >80 |

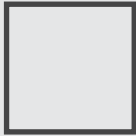
ELECTRICAL

| | |
|-------------------|----------------------------------|
| Light source | LED |
| Color Temp. | 2700K, 3000K, 4000K, 5000K, Blue |
| Lumen Output | 131 lm |
| Driver | 24Vdc |
| Ambient Temp. | -20°C ~ +45°C |
| Ambient Humidity | 10% ~ 90% |
| Light source Life | 50,000 h |

GLOW RAIL LINEAR (SQ) is an LED handrail lighting system designed to enhance standard handrails crafted from stainless steel and aluminum. Offering a spectrum of colors ranging from 2700 to 6500K and blue, the system is not only visually versatile but also features an impressive IP65 waterproof rating, ensuring resilience in diverse settings. The system incorporates secure 3M waterproof internal connectors for added reliability. Powered by a constant voltage LED driver, it operates efficiently, maintaining a consistent performance. Furthermore, the system provides flexibility through customization options, allowing for personalized sizes, shapes, and beam angles based on individual preferences and requirements.

Suitable for square handrails with dimensions $\geq 50 \times 50$ mm and a wall thickness ranging from 0.8 to 3 mm.

$\geq 50 \times 50$ mm



Wall Thickness T: 0.8-3mm



ORDERING CODE

SERIES NAME - FINISH - CCT - CONTROL

GLOW RAIL
LINEAR(SQ) G GREY 27 2700K 1 ON-OFF
 B BLACK 30 3000K 2 1-10V
 40 4000K
 50 5000K
 B Blue



GLOW RAIL LINEAR (R)



| | | | | |
|------|------|-------|------------------|------------|
| IP65 | IK09 | 24Vdc | 5YRS Warranty | 4 WATTS |
|------|------|-------|------------------|------------|

Upon request

| | |
|-----|------|
| RGB | RGBW |
|-----|------|

PHYSICAL

| | |
|-----------------|---------------------|
| Body | Aluminum |
| Finish | Silver grey / Black |
| Dimensions | L124xW30xH32 mm |
| Hole for groove | L102xW28 mm |

OPTICAL

| | |
|------------|-----------|
| Beam Angle | 10x110° |
| Aiming | Symmetric |
| CRI | >80 |

ELECTRICAL

| | |
|-------------------|----------------------------------|
| Light source | LED |
| Color Temp. | 2700K, 3000K, 4000K, 5000K, Blue |
| Lumen Output | 131lm |
| Driver | 24Vdc |
| Ambient Temp. | -20°C ~ +45°C |
| Ambient Humidity | 10% ~ 90% |
| Light source Life | 50,000 h |

GLOW RAIL DOT is an LED handrail lighting system designed to enhance standard handrails crafted from stainless steel and aluminum. Offering a spectrum of colors ranging from 2700 to 6500K and blue, the system is not only visually versatile but also features an impressive IP67 waterproof rating, ensuring resilience in diverse settings. The system incorporates secure 3M waterproof internal connectors for added reliability. Powered by a constant voltage LED driver, it operates efficiently, maintaining a consistent performance. Furthermore, the system provides flexibility through customization options, allowing for personalized sizes, shapes, and beam angles based on individual preferences and requirements.

Suitable for square handrails with dimensions $\geq 50 \times 50$ mm and a wall thickness ranging from 0.8 to 3mm, for a $\varnothing 30$ mm hole.

$\varnothing 48-52$ mm



Wall Thickness T: 0.8 - 3mm



ORDERING CODE

SERIES NAME - FINISH - CCT - CONTROL

| | | | |
|-------------------------|-------------------|--|---------------------|
| GLOW RAIL LINEAR (R) | G GREY B BLACK | 27 2700K 30 3000K 40 4000K 50 5000K B Blue | 1 ON-OFF 2 1-10V |
|-------------------------|-------------------|--|---------------------|

GLOW RAIL DOT



IP67

IK09

24Vdc

5 YRS
Warranty

15
WATTS

Upon request

1-10V

TRIAC

DMX

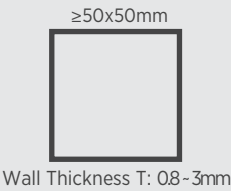
RGB

RGBW

| PHYSICAL | |
|-------------------|----------------------------------|
| Body | Aluminum |
| Finish | Silver grey / Black |
| OPTICAL | |
| Aiming | Symmetric/Assymetric |
| CRI | >80 |
| ELECTRICAL | |
| Light source | LED |
| Color Temp. | 2700K, 3000K, 4000K, 5000K, Blue |
| Driver | 24Vdc |
| Ambient Temp. | -20°C ~ +45°C |
| Ambient Humidity | 10% ~ 90% |
| Light source Life | 50,000 h |

GLOW RAIL DOT is an LED handrail lighting system designed to enhance standard handrails crafted from stainless steel and aluminum. Offering a spectrum of colors ranging from 2700 to 6500K and blue, the system is not only visually versatile but also features an impressive IP67 waterproof rating, ensuring resilience in diverse settings. The system incorporates secure 3M waterproof internal connectors for added reliability. Powered by a constant voltage LED driver, it operates efficiently, maintaining a consistent performance. Furthermore, the system provides flexibility through customization options, allowing for personalized sizes, shapes, and beam angles based on individual preferences and requirements.

Suitable for square handrails with dimensions $\geq 50 \times 50 \text{ mm}$ and a wall thickness ranging from 0.8 to 3mm, for a $\varnothing 30 \text{ mm}$ hole.



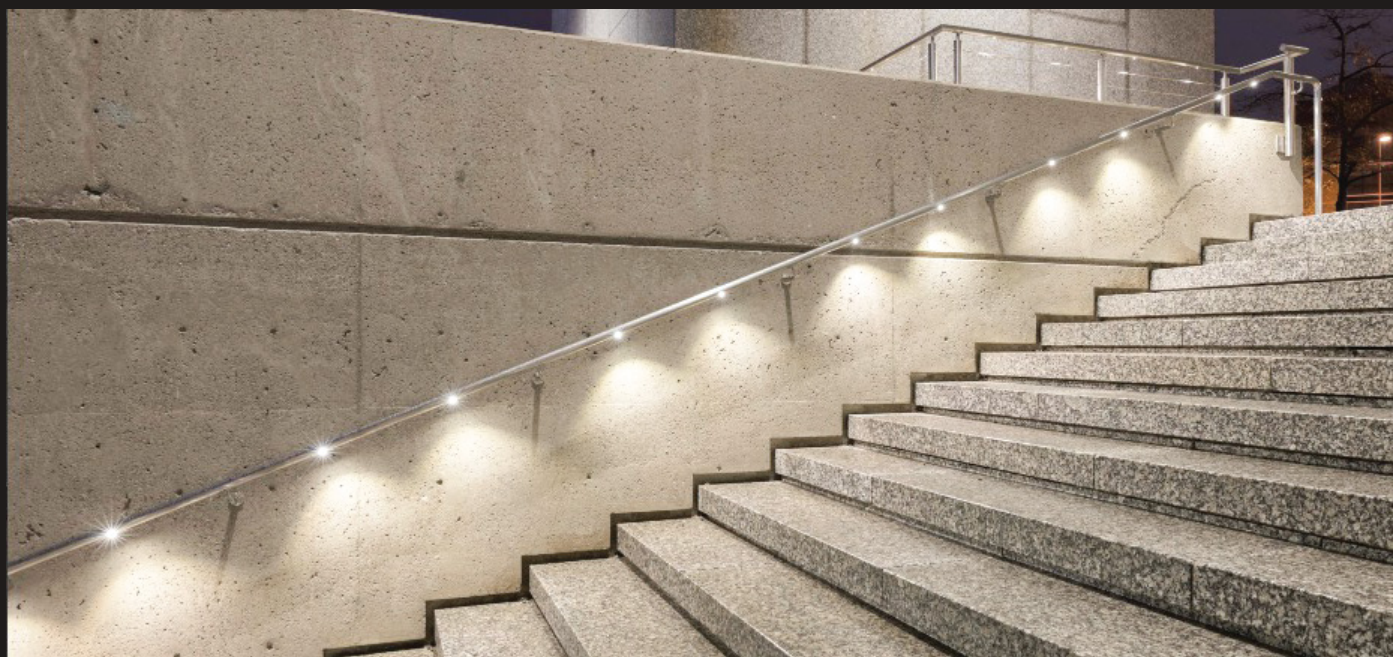
| Range | Lumen (lm) | Beam angle | Dimensions (mm) |
|-----------------|------------|----------------|-----------------|
| GLOW RAIL DOT 1 | 83lm | Asymmetric 65° | Ø33xH39.5mm |
| GLOW RAIL DOT 2 | 110lm | Symmetric 90° | Ø33xH39.mm |



ORDERING CODE

SERIES NAME - PRODUCT RANGE - FINISH - CCT - CONTROL

| | | | | |
|---------------|---|---------|-----------|----------|
| GLOW RAIL DOT | 1 | G GREY | 27 2700K | 1 ON-OFF |
| | 2 | B BLACK | 30 3000K | 2 1-10V |
| | | | 40 4000K | 3 Triac |
| | | | 50 5000K | 4 DMX512 |
| | | | RGB RGB | |
| | | | RGBW RGBW | |



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