

MACRON

MACRON FLAT

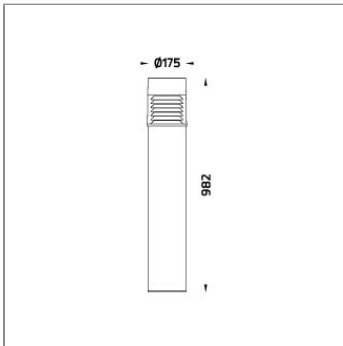
BOLLARD



LAST UPDATE: 25-03-2025



MACRON is a family of shielded bollard with symmetrical light distribution. It is equipped with the latest generation of COB LED with good color consistency. HID light source and E27 holder for Led retrofit lamps are also available. The clear polycarbonate cover with internal glare suppression louvers improves lighting quality by limiting the upward light emission. It is universally installed in walkways, parks, commercial areas and open spaces. It provides general lighting for the residential areas where light pollution has to be controlled. The bollard height can be customized according to specific requirement. An anchorage unit is available as an accessory.



Technical Data



| | |
|-----------------------|--------------------|
| Ordering Code : | 7107-O-3-891-XX |
| Lamp : | LED |
| CCT : | 4000 K |
| CRI : | CRI >80 |
| SDCM : | SDCM = 3 |
| Lamp Lumen : | 3390 lm |
| Luminaire Lumen : | 1160 lm |
| Lamp Wattage : | 23 W |
| Luminaire Wattage : | 27 W |
| Efficacy : | 43 lm/W |
| Ambient Temperature : | 50°C |
| Lumen Maintenance | L70B10 >90,000 h |
| Controller : | On-Off |
| Input Voltage : | 220-240Vac 50/60Hz |
| Net Weight : | 6.40 kg. |

Ordering code guide

XXXX-X-X-XXX-XX
A B C D E

A Product Code
B Reflector
C Electrical Component
D Lamp
E Color



Icon definition

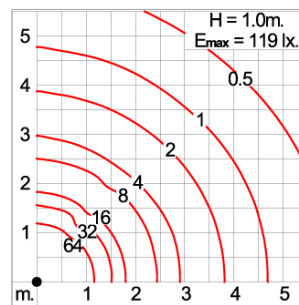
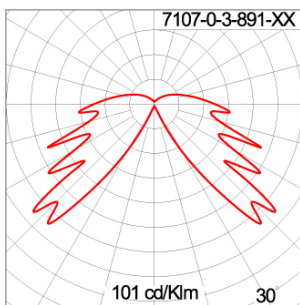
*Due to the constancy of product development,
we reserve the right to alter all specification
without prior notice.

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Specification

| | |
|-------------------------|---|
| IEC Standard | IEC 60598-1 General Requirement IEC 60598-2-1 Fixed Luminaires |
| Protection | IP65 Class II |
| IK Rating | Protection against mechanical impact IK09 on body and IK10 optical part. |
| Luminaires Body Housing | High-pressure die cast aluminum alloy body and components. Extruded aluminum S6063 alloy body with low copper content. |
| Coating Process | Nano Ceramic surface conversion, resistant to corrosive environment. Luminaire primarily coated with epoxy resin and top coated with UV stabilized polyester powder and cured in digital temperature controlled chamber at 200°C. |
| Diffuser | Self-extinguishing high impact resistant clear polycarbonate diffuser with UV stabilized additive. |
| Reflector | Glare shield slanted aluminum louvers. |
| Gasket | Weather resistant silicone gasket. Working temperature -40°C to +200°C. |
| External Screws | External screws are in stainless steel with protection grease. |
| Cable Entry | Cable entry protected by weather proof grommet. To be used with HO5RN-F/ HO7RN-F cable with 6-13mm. diameter. |
| Led | High efficiency LED module in COB technology. Assembled on MCPCB and mounted on to heat conductive material. |
| Driver | High quality constant current LED driver. Conform to safety standard and electromagnetic compatibility standard. |
| Internal Wire | Tinned copper conductor with silicone insulated internal wire. IMQ approved. Working temperature -40°C to +180°C. |
| Terminal Block | Terminal block in GFR PA6.6 for cable with cross section up to 2.5 sqmm. VDE approved. |
| Pre-Wire Cable | Pre-wired with 2x1.0 sqmm. HO7RN-F neoprene cable. IMQ approved. Equipped with anti-humidity kit. |
| Caution | Installation work has to be carried on according to the enclosed installation manual. |
| Color | <div> <div>Black O1</div> <div>Graphite O2</div> <div>Dark Grey O3</div> <div>Aluminum Silver O4</div> <div>White O6</div> </div> |

Light Distribution



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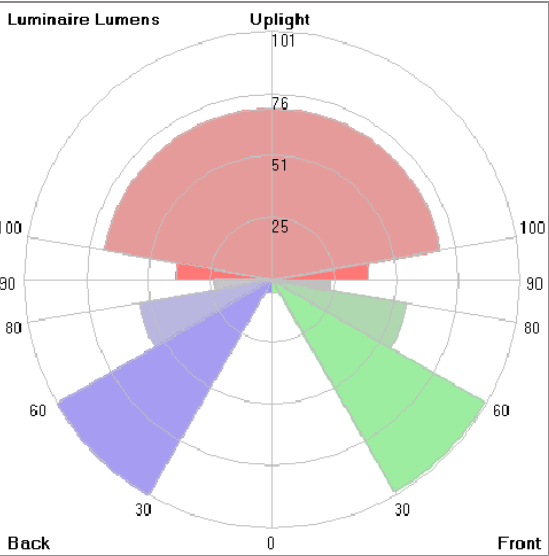
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Bug Report



| Lum. Classification System [LCS] | | | | |
|----------------------------------|-----------|----------|-------|-------|
| LCS | Zone | %Lumens | %Lamp | %Lum |
| FL | [0-30] | 5.4 | 0.2 | 1.1 |
| FM | [30-60] | 99.9 | 2.9 | 20.9 |
| FH | [60-80] | 55.9 | 1.6 | 11.7 |
| FVH | [80-90] | 23.5 | 0.7 | 4.9 |
| BL | [0-30] | 5.5 | 0.2 | 1.1 |
| BM | [30-60] | 101.4 | 3.0 | 21.2 |
| BH | [60-80] | 55.1 | 1.6 | 11.5 |
| BVH | [80-90] | 23.5 | 0.7 | 4.9 |
| UL | [90-100] | 39.2 | 1.2 | 8.2 |
| UH | [100-180] | 69.7 | 2.1 | 14.5 |
| Total | | 479.1 | 14.2 | 100.0 |
| BUG Rating | | B0-U3-G1 | | |

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Accessories



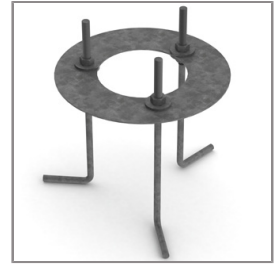
Ordering Code:
AUN-CON-0009-00
IP68 connection device,
cable diameter 5-9.5mm,
On-Off



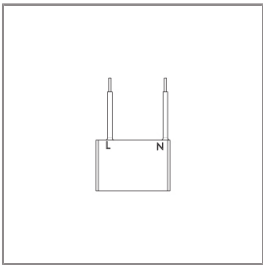
Ordering Code:
AUN-CON-0010-00
IP68 connection device 3
pole, cable diameter
5-9.5mm, with distribution
block



Ordering Code:
AUN-CON-0013-00
IP68 connection device,
cable diameter 7-11.5mm,
On-Off



Ordering Code:
AUN-ACB-0001-00
Anchor bolt kit, bollard



Ordering Code:
AUN-SUR-0004-00
Surge protection, 10kV,
On-Off, pre-assembly from
factory