MACRON

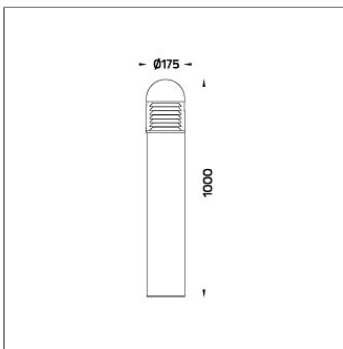## MACRON ROUND

BOLLARD

Unilamp

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.

Ø175

1000

Ordering code guide

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

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

IK BODY OPTIC   Icon definition

Technical Data

CE | IP65 | IK 09/10 | □ | ⊕ TIS 1955-2551

Ordering Code :	7108-0-3-905-XX
Lamp :	LED
CCT :	4000 K
CRI :	CRI >80
SDCM :	SDCM = 3
Lamp Lumen :	4920 lm
Luminaire Lumen :	1340 lm
Lamp Wattage :	36 W
Luminaire Wattage :	40 W
Efficacy :	33 lm/W
Ambient Temperature :	40°C
Lumen Maintenance	L70B10 >90,000 h
Controller :	On-Off
Input Voltage :	220-240Vac 50/60Hz
Net Weight :	6.60 kg.

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Unilamp
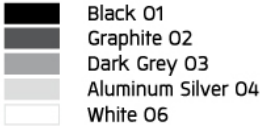
Specification

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. Luminiare 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	Black 01
	Graphite 02
	Dark Grey 03
	Aluminum Silver 04
	White 06

Light Distribution
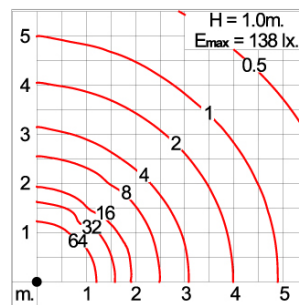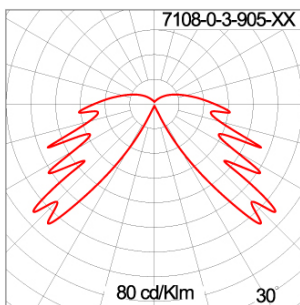
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Bug Report

Luminaire Lumens / Uplight / Back / Front

Lum. Classification System [LCS]

LCS	Zone	%Lumens	%Lamp	%Lum
FL	[0-30]	9.4	0.2	1.2
FM	[30-60]	158.4	3.2	20.9
FH	[60-80]	89.2	1.8	11.8
FVH	[80-90]	35.6	0.7	4.7
BL	[0-30]	8.5	0.2	1.1
BM	[30-60]	156.0	3.2	20.6
BH	[60-80]	96.8	2.0	12.8
BVH	[80-90]	36.8	0.7	4.9
UL	[90-100]	60.1	1.2	7.9
UH	[100-180]	107.0	2.2	14.1
Total		757.8	15.4	100.0
BUG Rating		B0-U3-G1		

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Unilamp

Accessories

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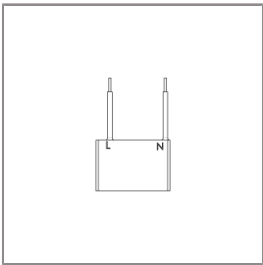IP68 connection device,
cable diameter 5-9.5mm,
On-Off

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