

# MACRON

## MACRON FLAT – BOLLARD

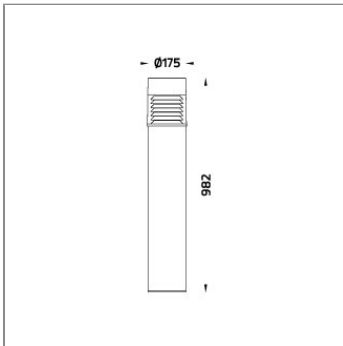
### BOLLARDS



LAST UPDATE: 23-04-2024



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 :	7107-0-3-874-XX
Lamp :	LED
CCT :	4000 K
CRI :	CRI >80
SDCM :	SDCM = 3
Lamp Lumen :	1900 lm
Luminaire Lumen :	420 lm
Lamp Wattage :	20 W
Luminaire Wattage :	20 W
Efficacy :	21 lm/W
Ambient Temperature :	50°C
Lumen Maintenance	L70B50 >40,000 h
Controller :	On-Off [AC LED]
Input Voltage :	220-240Vac 50/60Hz
Net Weight :	6.30 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

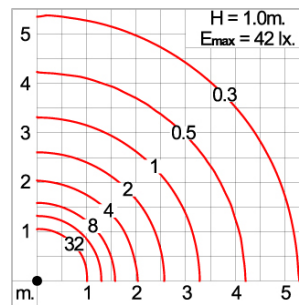
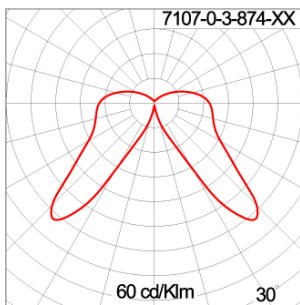
\*Due to the constancy of product development,  
we reserve the right to alter all specification  
without prior notice.

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### Specification

IEC Standard	IEC 60598-1 General Requirement IEC 60598-2-1 Fixed Luminaires
Protection	IP65 Class I
IK Rating	Protection against mechanical impact IK09 on body and IK10 optical part.
Luminaires Body Housing	High-pressure Die Cast Aluminium alloy body and components. Extruded Aluminium 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 aluminium 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 quality AC LED module. 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. Class1 luminaire provided with the earth connection.
Pre-Wire Cable	Pre-wired with 3x0.75 sqmm. HO5RN-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>Aluminium Silver O4</div> <div>White O6</div> <div>Wooden Brown O7</div> </div>

### Light Distribution



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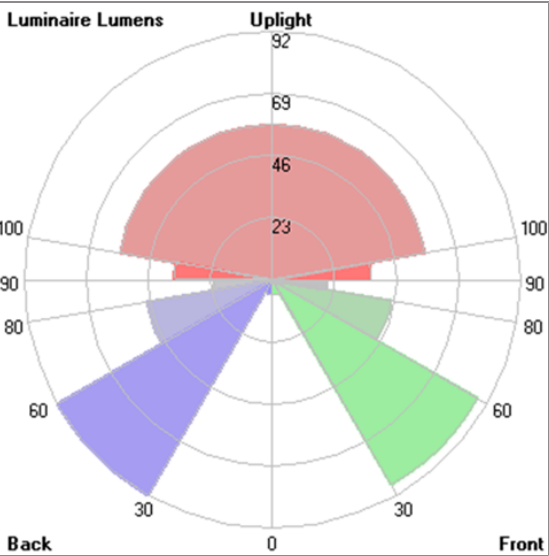
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#### Bug Report



Lum. Classification System (LCS)				
LCS	Zone	%Lumens	%Lamp	%Lum
FL	[0-30]	5.7	0.3	1.4
FM	[30-60]	88.0	4.6	21.0
FH	[60-80]	44.8	2.4	10.7
FVH	[80-90]	20.6	1.1	4.9
BL	[0-30]	5.4	0.3	1.3
BM	[30-60]	92.2	4.9	22.0
BH	[60-80]	47.5	2.5	11.3
BVH	[80-90]	21.8	1.1	5.2
UL	[90-100]	36.5	1.9	8.7
UH	[100-180]	57.5	3.0	13.7
Total		420.0	22.1	100.0
BUG Rating		B0-U3-G1		

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#### Accessories



Ordering Code:  
AUN-CON-0009-00  
IP68 Water Tight  
Connecting Device, 3 Pole,  
Cable Diameter 5.0 –  
9.5mm.



Ordering Code:  
AUN-CON-0010-00  
IP68 Water Tight  
Connecting Device with  
Distribution block, 3 pole, 1  
input, 2 outputs, Cable  
Diameter 5.0 – 9.5mm.



Ordering Code:  
AUN-CON-0013-00  
IP68 Water Tight  
Connecting Device, 3 Pole,  
Cable Diameter 7 – 11.5mm.



Ordering Code:  
AUN-ACB-0001-00  
Anchor Bolt Kit for Bollard