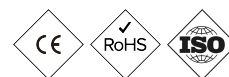
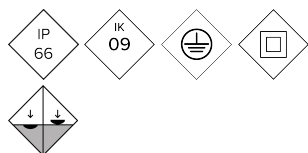


ABLA

Bollard

ARROW



Cylindrical design aluminium bollard, 80 cm high and 12 W power. It offers a comfortable and uniform lighting at 360°, improving visibility and safety in its surroundings.

MAIN FEATURES:

- Indirect light with diffuser to provide comfortable light.
- High transparency diffuser with UV protection.
- Extruded aluminum body and cast aluminum lid.

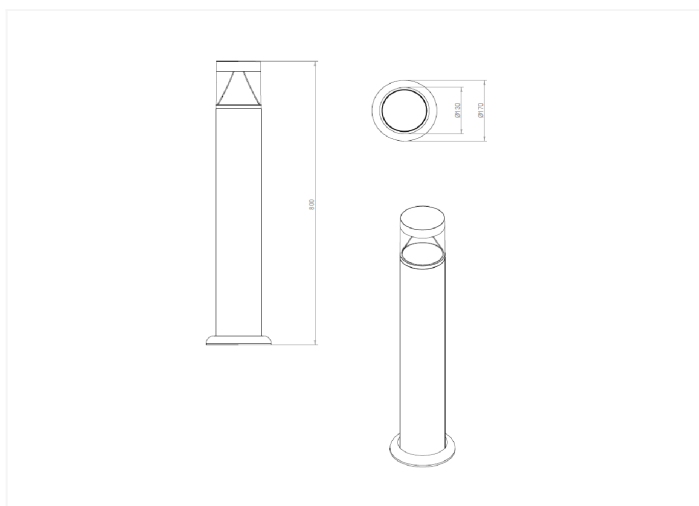
APPLICATIONS:

- Cycle Lane and Narrow Tracks
- Pedestrian Zones
- Squares
- Green Areas; Parks and Gardens

SPECIFICATIONS :

Housing material:	Die-cast aluminum top cover. Extruded aluminum shaft.
Diffuser (optic system enclosure):	High transparency PC with its anti-UV surface.
Fixing elements:	18/8 Stainless Steel - AISI 304.
Housing:	It consists of two parts: The upper body, which houses the BENITO LED module, the driver and the control electronics, and the fixing bracket.
Sealing gaskets:	Silicone foam
IP rating (luminaire):	IP66
IP rating (optic system):	IP66
IK rating (impact resistance):	IK09
LEDs thermal dissipation:	Heat dissipation is achieved through the Beacon 's body, without external fins or conductive fluids. Passive convection heat dissipation is achieved by ensuring thermal contact between the LED modules through a high-conductivity heat transfer material.
Anti-condensation valve:	Pressure compensation valve that ensures the evacuation of moisture, preventing condensation, maintaining the IP rating of the LED module.
Paint and finishes:	Polyester powder coating, electrostatically sprayed and oven-cured. Corrosion resistant.
Colour:	Black forging
Mounting:	Floor using 3 screws (not supplied).
Tilt range:	No.
Maintenance:	No.
Recommended mounting height:	-
Driver:	Constant current driver built into the Beacon , pre-wired on a steel plate .
Flow Reduction:	Non-adjustable driver.
Ready4IOT - Connectivity:	-
Surge protection device (SPD):	-
DarkSky Approved	-

DRAWING:

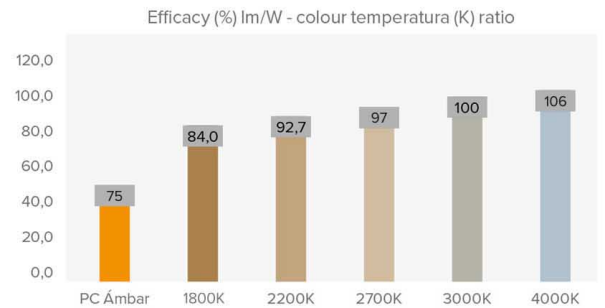


INSTALLATION:



TECHNICAL DATA:

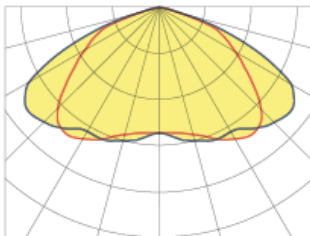
	REF.	Nº LEDs	Power W	I Driver mA	Real luminous flux (T) =85°C		Initial luminous flux (T) =25°C	
					Flux lm	Efficacy lm/W	Flux lm	Efficacy lm/W
ARROW	ABLA	56	12	-	750	62	960	80



Luminous flux and efficiency at 3000K and CRI>70 – Tolerance ± 3%

PHOTOMETRY:

Symmetric Square (S4)



*Show 4 recommended lighting distributions. Refer to the 18 typologies.

LEDs MODULE:

LEDs module:	BENITO 56 LED format. See Color Temperatures, CRI and Light Distributions.
Replaceable module:	No
LED:	3030
Number of LEDs:	56
PCBs format:	-
LED nominal efficacy:	194 lm/W
Colour temperature:	3000K
Colour rendering index CRI:	>70 (optional >80)
Average LED useful time L90B10:	L90B10 >75,000 hours

OPTIC SPECIFICATIONS:

Optic system:	Indirect light using a diffuser	
Light distributions:	1 available light distribution	
Upward light output ratio ULOR:	<15%	
Downward light output ratio DLOR:	>85%	
Glare index:	-	
Luminous intensity category:	-	
Luminous flux CIE n°3:	>95%	
Photobiological safety:	RG0 (risk-free)	
Initial luminous flux Tj=25°C (up to):	lm	960
Initial luminaire efficacy Tj=25°C (up to):	lm/W	80
Real luminous flux Tj=85°C (UNE EN 13032-4) (up to):	lm	750
Real luminaire efficacy Tj=85°C (UNE EN 13032-4) (up to):	lm/W	62

ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs):	W	9
Maximum power consumed (luminaire):	W	12
Power range:	W	12
Maximum current of LED:	mA	<470 (LED Current = 50% Driver Current)
Power supply protection classes IEC:	Class I and II	
Surge protection device (SPD):	-	
Common and differential mode protection (SPD) Udc:	-	
Max current (8/20) (SPD):	-	
Thermal phase disconnection (SPD):	-	
Input voltage:	220-240	
Input voltage (max rate):	198-264	
Input frequency:	47-63	
Starting current:	<65	
Duration of the starting voltage peak:	<0,3	
Driver efficacy:	>90%	
Power factor 100% consumption:	>0,98	
Power factor 50% consumption:	>0,95	
Total harmonic distortion (THD):	<10	
Power consumption on standby mode:	<0.4	
Energy class:	D (According to EU Regulation 2019/2015 EPREL) - A++ IPEA>1.15	

OPERATING CONDITIONS:

Average LED useful time L90B10:	hours	>75.000
Average driver useful life to Tp <70°C:	hours	>50.000
Average luminaire useful life L90B10 (TM-21):	hours	>50.000
Ambient temperature (Ta):	°C	de -35°C a +50°C
Aerodynamic resistance (CxS):	m2	-
Vibration test (15Hz 3 axis):	-	-
Guarantee:	years	5

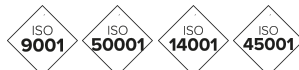
PACKAGING DIMENSIONS:

Net weight	kg	2,56
Gross weight	kg	5,4
Luminaire dimensions (LxWxH)	mm	800*118*118
Packaging dimensions (LxWxH)	mm	830*285*290
Pieces per box		4
Quantity per container 20ft		-
Quantity per container 40ft		-

CERTIFICATES:

Security certificates:	EN 60598-1 / EN 60598-2-3 / EN 62493 / IEC 62471
EMC certificates:	EN 55015 / EN 61547 / EN 61000-3-2 / EN 61000-3-3 / EN 61347-2-13 / EN 61347-1 / EN 62384
Other certifications:	EN 13032-4 / ISO 9001 / ISO 50001 / ISO 14001 / ISO 45001

Company Certifications

**BENITO**

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