**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 for comfortable light.
Highly transparent diffuser with UV protection.
Extruded aluminium body and die-cast aluminium cover.

#### **APPLICATIONS:**

Bicycle Lanes and Narrow Roads Pedestrian Zones Squares Green Areas; Parks and Gardens

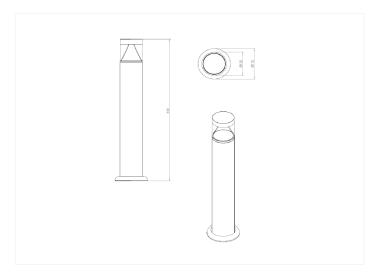
Project sheet | CAD | Catalogue | Mounting instructions | HD image



## **SPECIFICATIONS:**

Housing material:	Die-cast aluminium top cover. Extruded aluminium shaft.
Diffuser (optic system enclosure):	Highly transparent PC with anti-UV surface.
Fixing elements:	Stainless Steel 18/8 - AISI 304
Housing:	It consists of two parts: The upper body, where the BENITO LED module, the driver, and the control electronics are housed including the mounting bracket.
Sealing gaskets:	Silicone foam.
IP rating (luminaire):	IP66
IP rating (optic system):	IP66
IK rating (impact resistance):	IK09
LEDs thermal dissipation:	Thermal dissipation through the body of the bollard, without external fins or conductive fluids. Passive dissipation by convection and ensuring thermal contact of the LED modules through high conductivity heat transfer material.
Anti-condensation valve:	Pressure compensation valve ensures the evacuation of humidity, preventing condensation and maintaining the IP tightness rating of the LED module.
Paint and finishes:	Polyester powder paint coating, electrostatically sprayed and sublimated in the oven. Corrosion resistant.
Colour:	Matt black.
Mounting:	Floor by means of 3 screws (not supplied).
Tilt range:	No.
Maintenance:	No.
Recommended mounting height:	-
Driver:	Constant current driver built into the beacon, pre-wired on galvanized steel plate.
Flow Reduction:	Non-adjustable driver.
Ready4IOT - Connectivity:	-
Surge protection device (SPD):	-

# DRAWING:





ARROW







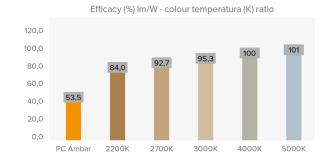


## **TECHNICAL DATA:**

REF.	Nº LEDs	Power W	I Driver mA
ARI A	56	12	_

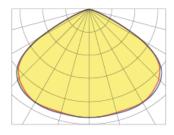
Real luminou	s flux (T) =85°C)	Initial luminous flux (T) =25°C)	
Flux Im	Efficacy Im/W	Flux Im	Efficacy Im/W
750	62	960	80

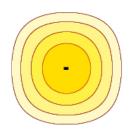
Luminous flux and efficiency at 4000°K and CRI>70. Luminous flux tolerance < +/-3%. Values may be subject to changes due to LED binning.



## PHOTOMETRY:

#### Symmetric 120° (C12)





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



LEDs MODULE:	
LEDs module:	BENITO format 56 LEDs. Please consult 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:	3K (opcional PC Amber- 1K8, 2K2, 2K7, 4K)
Colour rendering index CRI:	>70 (optional >80)
Average LED useful time L90B10:	L90B10 >75.000 hours

OPTIC SPECIFICATIONS:		
Optic system:		Indirect light by diffuser.
Light distributions:		1 avialable light distribution
Upward light output ratio ULOR:		<15%
Downward light output ratio DLOR:		>85%
Glare index:		
Luminous intensity category:		
Luminous flux CIE nº3:		>95%
Photobiological safety:		RG0 (risk-free)
Initial luminous flux Tj=25°C (up to):	lm	960
Initial luminaire efficacy Tj=25°C (up to):	Im/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):	Im/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 frecquency:		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):	оC	de -35°C a +50°C
Aerodynamic resistance (CxS):	m2	-
Vibration test (15Hz 3 axis):		-
Guarantee:	years	5

PACKAGING DIMENSIONS:		
Net weight	kg	9,9
Gross weight	kg	13,8
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		-

C	EKI	IFICAI	ES:

EN 60598-1 / EN 60598-2-3 / EN 62493 / IEC 62471 Security certificates:

EN 55015 / EN 61547 / EN 61000-3-2 / EN 61000-3-3 / EN 61347-2-13 / EN 61347-1 / EN 62384 EMC certificates:

Other certifications: EN 13032-4 / ISO 9001 / ISO 50001 / ISO 14001 / ISO 45001

Company Certifications









