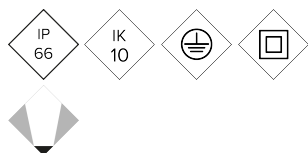


IBDAL100

Bollard

# DALIA



Cylindrical design bollard with a height of 1 m and 5 W power. It has a galvanised steel body S-235-JR with stainless steel cover. It provides signalling light to improve the safety of the environment.

## MAIN FEATURES:

Double body; consisting of optical compartment and mounting base.  
Tempered glass with silicone sealing gasket for IP66 protection.  
Easy maintenance, replaceable elements capacity (PCB, Driver and SPD).

## APPLICATIONS:

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

[HD image](#)

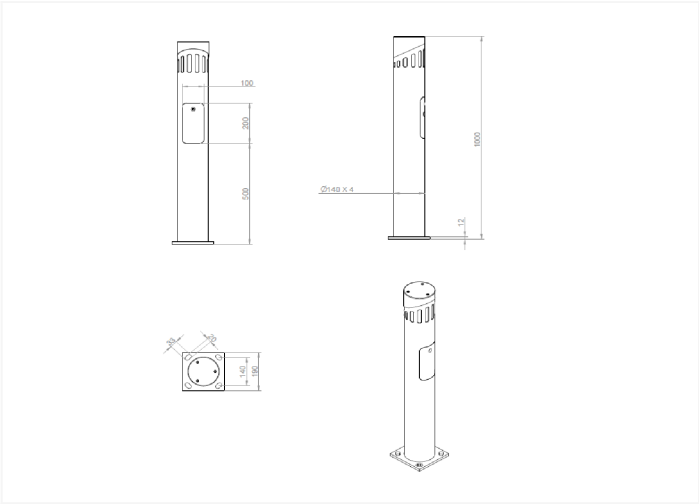
# BENITO

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tel. 93 852 1000

SPECIFICATIONS :

Housing material:	3 mm thick S-235-JR galvanised steel body.
Diffuser (optic system enclosure):	Polycarbonate diffuser. UV filter.
Fixing elements:	Stainless Steel 18/8 - AISI 304
Housing:	It consists of three parts: Galvanised steel body with INOX steel cover housing the BENITO LED module.
Sealing gaskets:	Silicone foam
IP rating (luminaire):	IP66
IP rating (optic system):	IP66
IK rating (impact resistance):	IK10
LEDs thermal dissipation:	High efficiency heatsink with large dissipation surface, thanks to the anodised aluminium corrugated fin radiator. Passive dissipation by convection and ensuring thermal contact of the LED modules through high conductivity heat transfer material.
Anti-condensation valve:	-
Paint and finishes:	Polyester powder coating, electrostatically sprayed and oven-baked. Resistant to corrosion.
Colour:	Oxiron black (other colours on request).
Mounting:	Floor by means of 4 screws (not supplied).
Tilt range:	No.
Maintenance:	Easy opening with standard tools. EN-40 compliant registration door. Replaceable LED module, driver and SPD.
Recommended mounting height:	-
Driver:	-
Flow Reduction:	-
Ready4IOT - Connectivity:	-
Surge protection device (SPD):	-

DRAWING:



INSTALLATION:



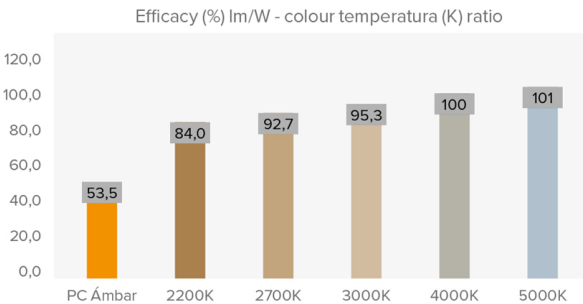
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TECHNICAL DATA:

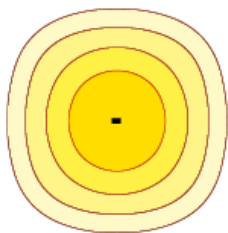
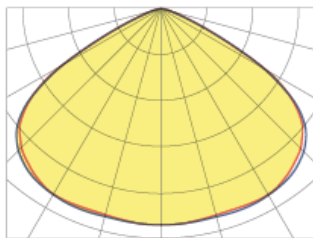
	REF.	N° LEDs	Power W	I Driver mA	Real luminous flux (T) =85°C		Initial luminous flux (T) =25°C	
					Flux lm	Efficacy lm/W	Flux lm	Efficacy lm/W
BALIZA DALIA	IBDAL100	1	5	-	294	58	371	74

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.

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LEDs MODULE:

LEDs module:	BENITO Format 1 LED. Consult Color Temperatures, CRI and Light Distributions		
Replaceable module:	Yes		
LED:	COB		
Number of LEDs:	1		
PCBs format:	-		
LED nominal efficacy:	80 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:	Polycarbonate diffuser		
Light distributions:	1 Lighting Distribution available		
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 (riskk free)		
Initial luminous flux Tj=25°C (up to):	lm	294	
Initial luminaire efficacy Tj=25°C (up to):	lm/W	58	
Real luminous flux Tj=85°C (UNE EN 13032-4) (up to):	lm	371	
Real luminaire efficacy Tj=85°C (UNE EN 13032-4) (up to):	lm/W	74	

ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs):	W	5
Maximum power consumed (luminaire):	W	5
Power range:	W	5
Maximum current of LED:	mA	-
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:	C (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	-
Gross weight	kg	-
Luminaire dimensions (LxWxH)	mm	1000x190x140
Packaging dimensions (LxWxH)	mm	-
Pieces per box		-
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



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