ILGL

Luminaire

GLOBUS



Belongs to the Essentials range, a set of luminaires of different types and styles that share a common aesthetic. Designed for ambient urban lighting applications, adapting to different urban spaces. Ideal for installation on supports between 4 and 6 metres. Optical design optimised for a perfect glare control and cut-off suitable for pedestrians without emission to the upper hemisphere.

MAIN FEATURES:

High efficiency. Up to 142 lm/W net
Essentials range. From 20W to 120W
Finless passive dissipation
Tool-less opening
18 light distribution curves
Zhaga Standard (Book 15)
Ready 4IoT. Ready for any intelligent lighting control solution

APPLICATIONS:

Historical Centres
Residential Streets (Zones 30)
Pedestrian Zones
Commercial and Tourist Streets
Squares
Green Areas; Parks and Gardens

DETAILS:



Design - By Ramón Úbeda & Otto Canada.



Installation in Top by Double Bracket.



Opening without tools.

Project sheet | CAD | Mounting instructions | HD image

BENITO

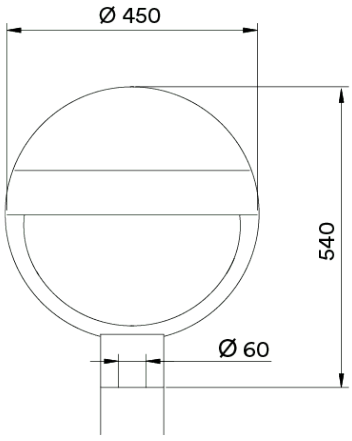
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SPECIFICATIONS :

Housing material:	High pressure die-cast aluminium EN AC-43000, EN AC-43100, EN AC-43400, EN AC-44100, EN AC-47100 according to the UNE EN 1706 standard
Diffuser (optic system enclosure):	5mm tempered safety glass. UV filter
Fixing elements:	Stainless steel 18/8 - AISI 304
Housing:	Double compartment: driver / LED module
Sealing gaskets:	Silicone foam
IP rating (luminaire):	IP66
IP rating (optic system):	IP66
IK rating (impact resistance):	IK09
LEDs thermal dissipation:	Thermal dissipation through finless luminaire body, without conductive fluids. Passive convection dissipation ensuring thermal contact with the LED modules through a high-conductivity thermal transfer material
Anti-condensation valve:	Optional - Pressure compensation valve that ensures the evacuation of humidity, preventing condensation and maintaining the IP tightness of the luminaire. condensation, maintaining the IP tightness level of the luminaire.
Paint and finishes:	Polyester powder paint coating, electrostatically sprayed and sublimated in the oven. Resistant to corrosion
Colour:	Matte black RAL 9005. (Optional: other colours on request)
Mounting:	Post - Top or Lateral Ø60mm
Tilt range:	-
Maintenance:	Easy, tool-less opening. Modular concept for easy component replacement: LEDs, drivers, SPD
Recommended mounting height:	4 - 6 m
Driver:	Constant current adjustable and programmable driver on different levels (0-10V, 1-10V, DALI2, NFC). Embedded in the luminaire, pre-wired on a galvanised steel plate.
Flow Reduction:	Double level with control line, autonomous multi-level dimming or virtual midnight, flow reduction at the head-end.
Ready4IOT - Connectivity:	Zhaga Base (Book 18) - D4i. (Optional). NEMA 5,7 Pins Base (Optional).
Surge protection device (SPD):	Type T2+T3, 10-20kV and 20kA transient surge protector. Series connection with thermofuse, disconnection for a more effective protection at the end of the SPD service life. (Optional SPD Full Permanent Surge Protector >264Vac to <170VAc).
DarkSky Approved	

DRAWING:



INSTALLATION:



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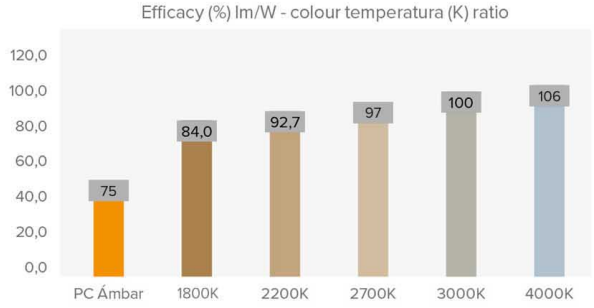
Ámbar 2200 K 2700 K 3000 K 4000 K 5000 K

lm/€ TRIPLE PROTECTION

TECHNICAL DATA:

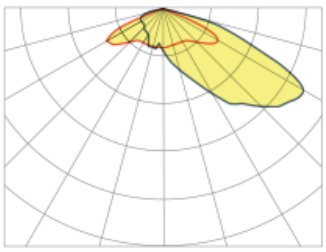
	REF.	Nº LEDs	Power W	I Driver mA	Real luminous flux (T) =85ºC) Flux lm	Real luminous flux (T) =85ºC) Efficacy lm/W	Initial luminous flux (T) =25ºC) Flux lm	Initial luminous flux (T) =25ºC) Efficacy lm/W
DECO Globus	ILGL	16	20	375	2842	142	3240	162
		16	30	563	4242	141	4836	161
		16	40	750	5642	141	6432	161
		32	50	470	7050	142	8055	162
		32	60	563	8460	141	9644	161
		32	80	750	11280	141	12859	161

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



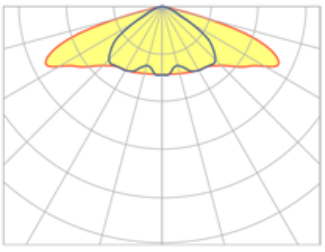
PHOTOMETRY:

Asymmetric Extensive Frontal (A1)



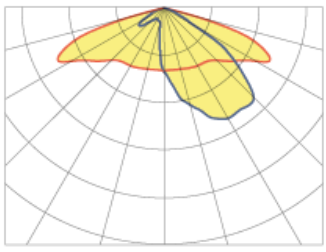


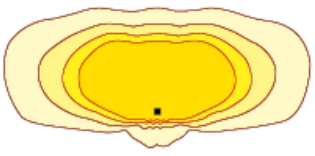
Symmetric Extensive (SE)



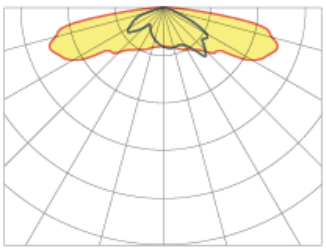


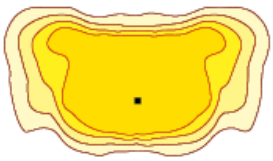
Asymmetric Extensive (AE)





Asymmetric Extensive Wide (A3)





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

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LEDs MODULE:

LEDs module:	BENITO Zhaga standard with 8-16 LEDs. Check colour temperatures, CRI and Luminous distributions (Optional NTC temperature probe).
Replaceable module:	Yes
LED:	5050
Number of LEDs:	16-32
PCBs format:	1 o 2 Zhaga (Book 15) 2x8
LED nominal efficacy:	172 lm/W
Colour temperature:	PC Amber - 1K8, 2K2, 2K7, 3K, 4K, TW - Tunable White
Colour rendering index CRI:	>70 (optional >80)
Average LED useful time L90B10:	L90B10 >100.000 hours

OPTIC SPECIFICATIONS:

Optic system:		PMMA lenses 2x2
Light distributions:		18 light distribution curves
Upward light output ratio ULOR:		0%
Downward light output ratio DLOR:		100%
Glare index:		Between D5 and D6 (depending on the light distribution)
Luminous intensity category:		Between G*4 and G*6 (depending on the light distribution)
Luminous flux CIE nº3:		>95% (See 18 Light Distributions).
Photobiological safety:		RG0 (exempt of risk)
Initial luminous flux Tj=25ºC (up to):	lm	12859
Initial luminaire efficacy Tj=25ºC (up to):	lm/W	162
Real luminous flux Tj=85ºC (UNE EN 13032-4) (up to):	lm	11280
Real luminaire efficacy Tj=85ºC (UNE EN 13032-4) (up to):	lm/W	142 (Rendimiento = 82.6 % lm/W (Real 85ºC) ÷ lm/W (Nominal Led))

ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs):	W	72
Maximum power consumed (luminaire):	W	80
Power range:	W	20 - 80
Maximum current of LED:	mA	<470 (LED Current = 50% Driver Current)
Power supply protection classes IEC:		Class I and II
Surge protection device (SPD):		Type 2 and Type 3, 10-20kV and 20kA transient surge protector. Series connection with thermal fuse disconnector for a more effective protection at the end of its service life.
Common and differential mode protection (SPD) Udc:	kV	10
Max current (8/20) (SPD):	kA	20
Thermal phase disconnection (SPD):		Yes
Input voltage:	Vac	220-240
Input voltage (max rate):	Vac	198-264
Input frecquency:	Hz	47-63
Starting current:	A	<65
Duration of the starting voltage peak:	ms	<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:		>100.000
Average driver useful life to Tp <70ºC:		100.000
Average luminaire useful life L90B10 (TM-21):		72.167
Ambient temperature (Ta):	ºC	de -35°C a +50°C
Aerodynamic resistance (CxS):	m2	0,102
Vibration test (15Hz 3 axis):		
Guarantee:	years	5 (extensible up to 10)

PACKAGING DIMENSIONS:

Net weight	kg	9,5
Gross weight	kg	11
Luminaire dimensions (LxWxH)	mm	450x450x540
Packaging dimensions (LxWxH)	mm	520x520x260
Pieces per box		1
Quantity per container 20ft		
Quantity per container 40ft		

CERTIFICATES:

Security certificates:	EN 60598-1 / EN 60598-2-3 / 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:	IEC 62262 / EN 13032-4 / EN62031 / EN 16474 / ISO 9227 / EN 60068-2-11 / ISO 10289 / EN 61643-11

Company Certifications

ISO 9001 ISO 50001 ISO 14001 ISO 45001

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