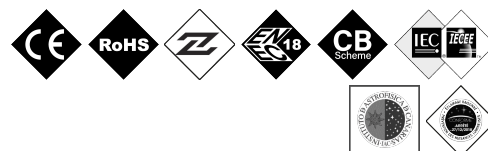
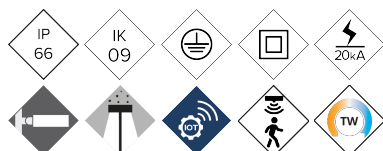


ALIB

Luminaire

INNOVA B



Flat environmental luminaire with an elipsoidal design ideal for urban residential areas (roads, squares, green spaces...). Narrow profile, column mounting by means of top strap. Power from 10W up to 100W thanks to its high dissipation capacity. Ready for any intelligent lighting control solutions.

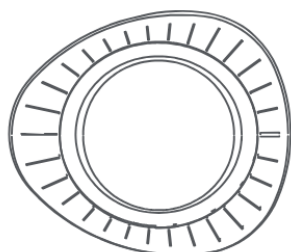
MAIN FEATURES:

High efficiency. Up to 145 lm/W net
Adaptable by means of a joint ball system, bracket or suspended
Double compartment: driver and LED module
Tool-less opening
18 light distribution curves
Zhaga Standard (Book 15)
Ready 4IoT. Ready for any intelligent lighting control solution

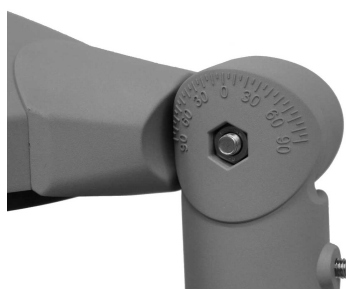
APPLICATIONS:

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

DETAILS:



Design by Benito Research Center.



Bracket with sinuous curved design.



Opening without tools.

[Project sheet](#) | [CAD](#) | [Catalogue](#) | [Mounting instructions](#) | [BIM](#) | [HD image](#)

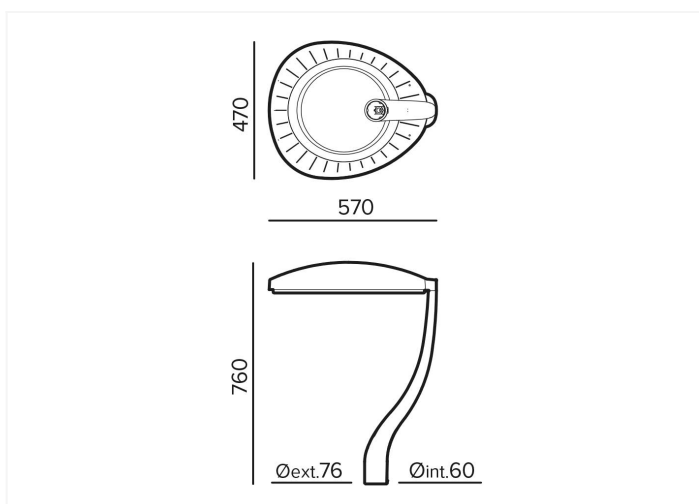
BENITO

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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, filters UV. Optionally in polycarbonate.
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:	Pressure-balancing valve to ensure moisture release, avoid condensation and maintain the luminaire IP tightness
Paint and finishes:	Polyester powder paint coating, electrostatically sprayed and sublimated in the oven. Resistant to corrosion
Colour:	RAL 9022 and 7043 (Optional: other colours on request)
Mounting:	Post - Top Ø60mm
Tilt range:	Non-directional luminaire
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). Bottom side Presence Sensor on Zhaga Base (Book 18) - D4i. (Optional).
Surge protection device (SPD):	Type T2+T3, 10kV 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).

DRAWING:

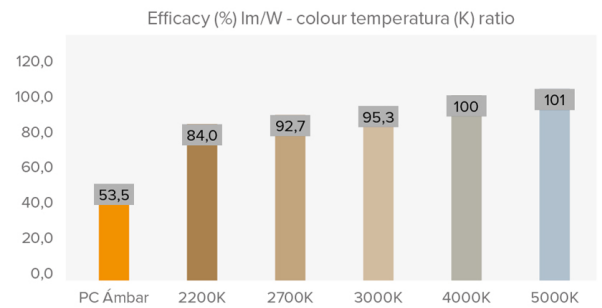


INSTALLATION:



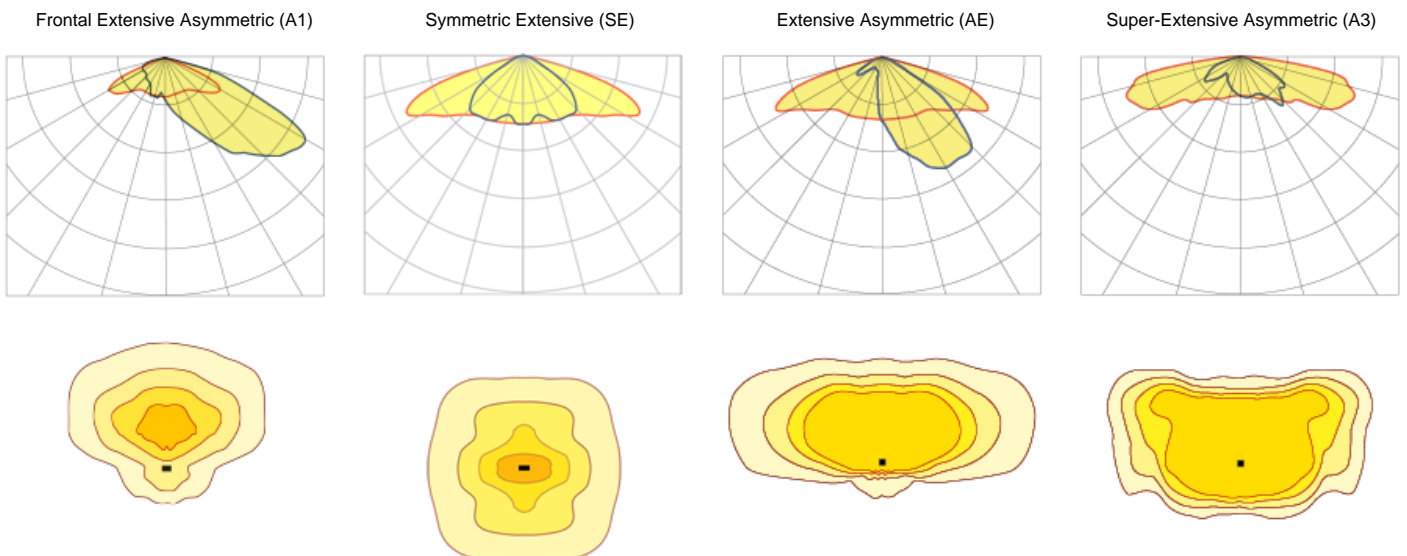
TECHNICAL DATA:

INNOVA B	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
		12	10	250	1420	142	1620	162
		12	20	500	2820	141	3220	161
		12	30	750	4200	140	4800	160
	ALIB	24	40	500	5642	141	6432	161
		24	60	750	8443	141	9625	160
		36	80	667	11193	140	12760	160
		36	100	833	14066	141	16035	160



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:



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

LEDs MODULE:

LEDs module:	BENITO Zhaga standard with 12 LEDs. Check colour temperatures, CRI and Luminous distributions (Optional NTC temperature probe).	
Replaceable module:	Yes	
LED:	5050	
Number of LEDs:	12 - 24 - 36	
PCBs format:	2 or 3 Zhaga (Book 15) 2x4	
LED nominal efficacy:	172	
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 n°3:	>95% (See 18 Light Distributions).	
Photobiological safety:	RG0 (exempt of risk)	
Initial luminous flux Tj=25°C (up to):	lm	16035
Initial luminaire efficacy Tj=25°C (up to):	lm/W	160
Real luminous flux Tj=85°C (UNE EN 13032-4) (up to):	lm	14066
Real luminaire efficacy Tj=85°C (UNE EN 13032-4) (up to):	lm/W	141

ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs):	90	
Maximum power consumed (luminaire):	W	100
Power range:	W	10-100
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, 10kV and 20kA transient surge protector. Series connection with thermal fuse disconnecter 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 frequency:	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:	W	<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 <70°C:	100,000	
Average luminaire useful life L90B10 (TM-21):	>100,000	
Ambient temperature (Ta):	°C	From -35°C to +50°C
Aerodynamic resistance (CxS):	m2	0.111
Vibration test (15Hz 3 axis):		
Guarantee:	years	5 (extensible up to 10 years)

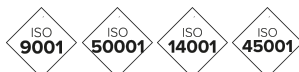
PACKAGING DIMENSIONS:

Net weight	kg	10.2
Gross weight	kg	10.7
Luminaire dimensions (LxWxH)	mm	570x470x760
Packaging dimensions (LxWxH)	mm	570x510x155
Pieces per box	1	
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:	IEC 62262 / EN 13032-4 / EN 62717 / EN 6272-1 EN 6272-2-1 / EN 61643-11

Company Certifications



BENITO

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