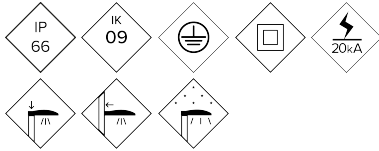




ALCO

Luminaire COSMOS



Innovative urban luminaire with a circular design, featuring an illuminated circle effect through multiple light sources around its perimeter. An ideal solution for urban, pedestrian zones, and high-visibility spaces due to its iconic presence in the urban landscape. With a flat profile and fixation to columns using post-top mounting, it offers power outputs ranging from 40W to 150W, with an optimized optical design for perfect glare control, suitable cut-off for pedestrians, and no upward emission. Ready R4IoT.

MAIN FEATURES:

High efficiency. Up to 145 lm/W real
From 40W to 150W
Double cavity, Driver and Optical Group
Zhaga Standard (Book 15)
Ready 4IoT. Ready for connectivity
Iconic Design

APPLICATIONS:

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

[Project sheet](#) | [CAD](#) | [HD image](#)

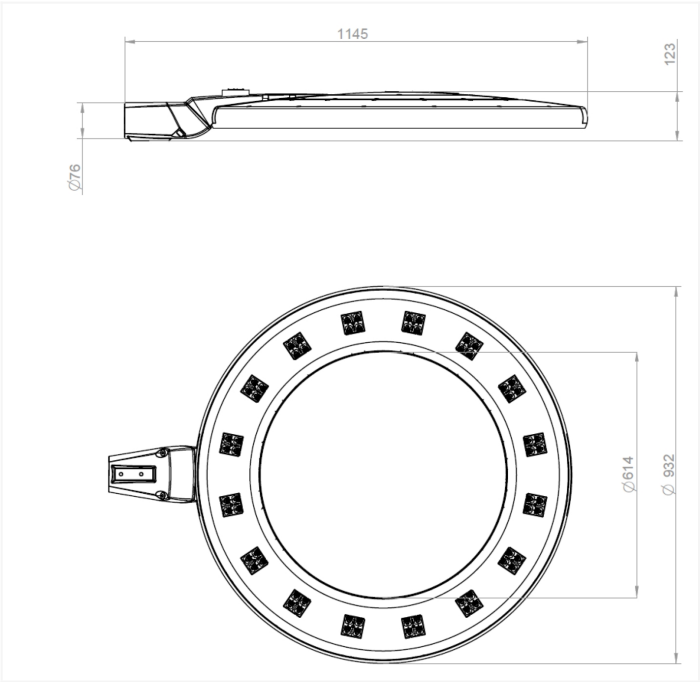
BENITO

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SPECIFICATIONS :

Housing material:	Die-cast aluminium casting of type EN AC-43000, EN AC-43100, EN AC-43400, EN AC-44100, EN AC-47100 according to standard UNE EN 1706.
Diffuser (optic system enclosure):	5mm polycarbonate glass, filters UV.
Fixing elements:	18/8 Stainless Steel - AISI 304
Housing:	Double Cavity: Driver / LED Module
Sealing gaskets:	Silicone Foam
IP rating (luminaire):	IP66
IP rating (optic system):	IP66
IK rating (impact resistance):	IK09
LEDs thermal dissipation:	Heat dissipation through the luminaire body, without external fins or conductive fluids. Passive heat dissipation by convection, ensuring thermal contact with the LED modules through highly conductive heat transfer material.
Anti-condensation valve:	Pressure compensation valve that ensures moisture evacuation, preventing condensation and maintaining the luminaire's IP rating.
Paint and finishes:	Polyester powder coating, electrostatically sprayed and oven-sublimated. Corrosion-resistant. (Marine-grade treatment available as an option).
Colour:	Black
Mounting:	Ø76 mm (optional via Ø60 mm accessories)
Tilt range:	Adjustable luminaire from -5° to 5° inclination
Maintenance:	Replaceable modules: LEDs, Drivers, SPD.
Recommended mounting height:	6 - 12 m
Driver:	Dimmable and programmable constant current driver with different levels (0-10V, 1-10V, DALI2, NFC). Built into the luminaire, pre-wired on a steel plate. .
Flow Reduction:	Double level with control line, different timed levels or virtual midnight, flow reduction at the head.
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).
DarkSky Approved	

DRAWING:



INSTALLATION:

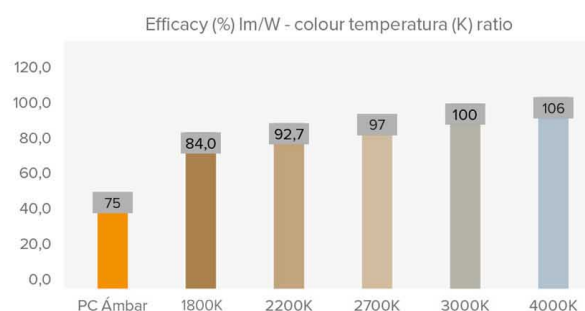


V. 2026-06-11 | The constant improvement and evolution of our products may result in some modifications of the technical specifications and characteristics of the products without prior notice.

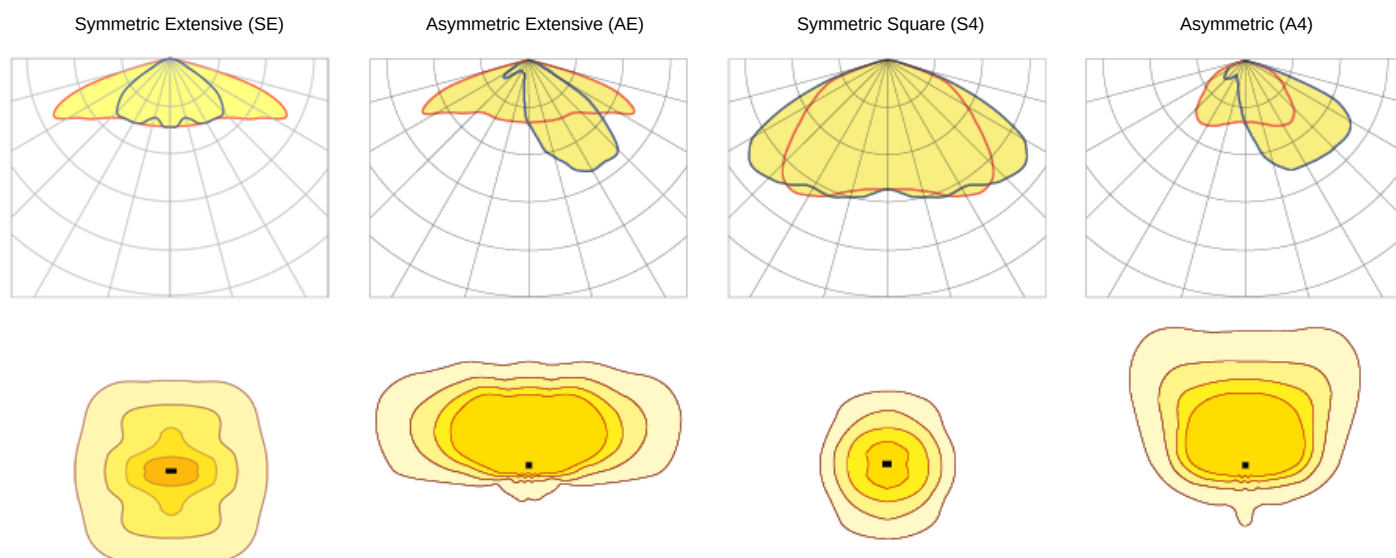
TECHNICAL DATA:

	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
Cosmos	ALCO	64	40	188	5560	139	6338	158
		64	80	375	11040	138	12586	157
		64	100	469	13700	137	15618	156
		64	120	563	16320	136	18605	155
		64	150	703	20250	135	23085	154

Luminous fluxes and efficiencies at 3000K and CRI>70 – Tolerance $\pm 3\%$



PHOTOMETRY:



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

LEDs MODULE:	
LEDs module:	BENITO Zhaga format with 4 LEDs. See color temperatures, CRI, and light distributions. (NTC temperature probe optional).
Replaceable module:	Yeah
LED:	5050
Number of LEDs:	64
PCBs format:	16 Zhaga (Book 15) 2x2
LED nominal efficacy:	172
Colour temperature:	Amber PC - 1K8, 2K2, 2K7, 3K, 4K
Colour rendering index CRI:	>70 (optional >80)
Average LED useful time L90B10:	L90B10 >100,000 hours

OPTIC SPECIFICATIONS:	
Optic system:	PMMA 2x2 lenses
Light distributions:	3 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% (Consultar las 18 Distribuciones lumínicas).
Photobiological safety:	RG0 (risk-free)
Initial luminous flux Tj=25°C (up to):	lm 23085
Initial luminaire efficacy Tj=25°C (up to):	lm/W 158
Real luminous flux Tj=85°C (UNE EN 13032-4) (up to):	lm 20250
Real luminaire efficacy Tj=85°C (UNE EN 13032-4) (up to):	lm/W 139

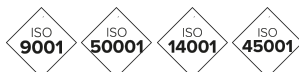
ELECTRIC SPECIFICATIONS:	
Nominal maximum power (LEDs):	W 135
Maximum power consumed (luminaire):	W 150
Power range:	W 40W - 150W
Maximum current of LED:	mA <470 (LED Current = 50% Driver Current).
Power supply protection classes IEC:	Class I and II
Surge protection device (SPD):	Type 2 and Type 3, 10kV 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:	hours >100.000
Average driver useful life to Tp <70°C:	hours 100.000
Average luminaire useful life L90B10 (TM-21):	hours 100.000
Ambient temperature (Ta):	°C de -35°C a +50°C
Aerodynamic resistance (CxS):	m2 0,083
Vibration test (15Hz 3 axis):	
Guarantee:	years 5 (extensible up to 10 years)

PACKAGING DIMENSIONS:	
Net weight	kg 15,5
Gross weight	kg 17,5
Luminaire dimensions (LxWxH)	mm 1010x1010x120
Packaging dimensions (LxWxH)	mm 1010x1010x120
Pieces per box	1
Quantity per container 20ft	170
Quantity per container 40ft	380

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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