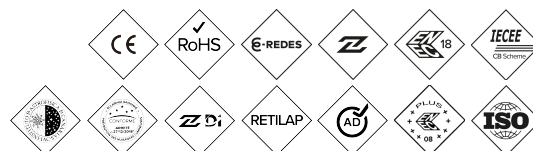
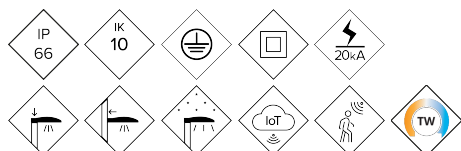


ALMXXL

Luminaire MILAN XXL



Aerodynamic and flat LED luminaire with low wind resistance. Comprehensive range available in five sizes with extensive optical and light distributions from 20W up to 300W to cover all road applications. High efficiency, reliability and quality, allowing quick return on investment. Ready for any intelligent lighting control solutions.

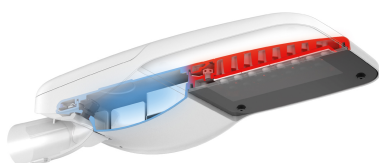
MAIN FEATURES:

High efficiency. Up to 145 lm/W real
5 different sizes. From 20W to 300W
Double cavity, Driver and Optical Group
Easy opening without tools
18 different light distributions
Zhaga Standard (Book 15)
Ready 4IoT. Ready for connectivity

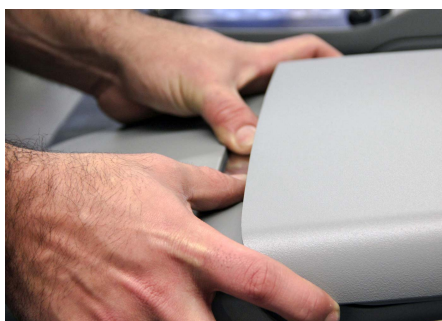
APPLICATIONS:

Roads and Highways
Roundabouts

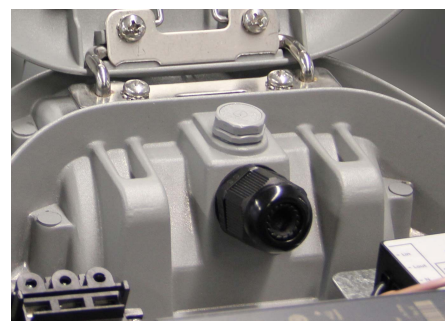
DETAILS:



Double compartment.



Tool-less top opening.



Anti-condensation valve .

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

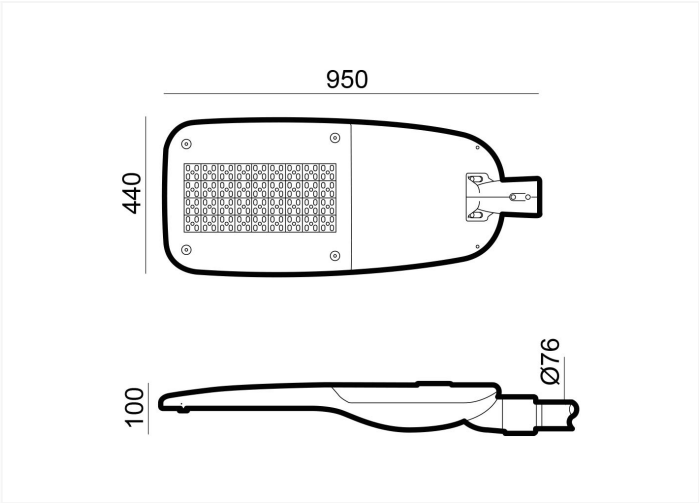
BENITO

info@benito.com
tel. 93 852 1000

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 tempered glass, UV filtering. Polycarbonate available as an option.
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 - IK10
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:	RAL 9022 color, and other colors on request
Mounting:	Post - Top Fixing Ø76 mm (Ø60 mm optional)
Tilt range:	Adjustable luminaire from -15° to 15° inclination
Maintenance:	Easy to open without any special tools. Replaceable modules: LEDs, drivers, SPDs.
Recommended mounting height:	10 - 14 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, 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	The mount is pre-installed at 90 deg post top orientation, or 0 deg lateral mount orientation and non-adjustable.

DRAWING:



INSTALLATION:

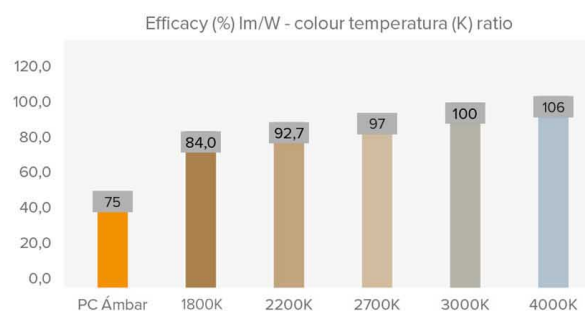


V. 2025-12-12 | The constant improvement and evolution of our products may result in some modifications of the technical specifications and characteristics of the products without prior notice.

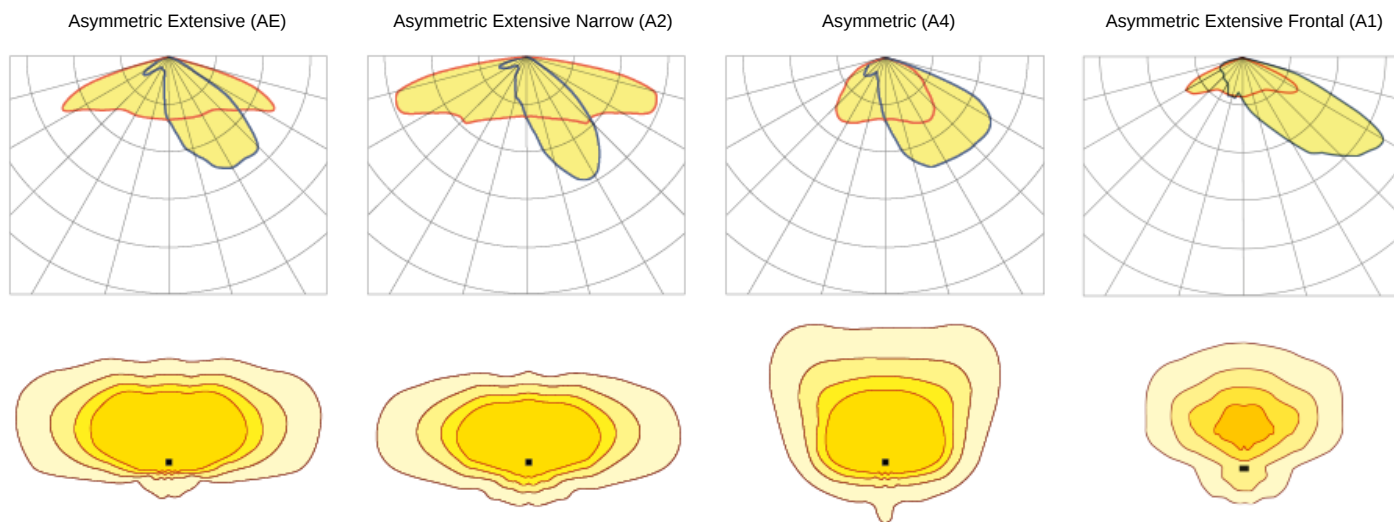
TECHNICAL DATA:

	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
Milan XXL	ALMXXL240	144	200	417	28400	142	32376	162
		144	240	500	33840	141	38578	161
	ALMXXL300	144	300	625	42000	140	47880	160

Luminous flux and efficiencies at 3000K and CRI>70 – Tolerance $\pm 3\%$
 Approved by DarkSky with 3000K or lower



PHOTOMETRY:



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

LEDs MODULE:

LEDs module:	Benito Zhaga Format 8, 12, and 16 LEDs. Consult color temperatures, CRI, and light distributions. (NTC temperature probe optional).		
Replaceable module:	Yeah		
LED:	5050		
Number of LEDs:	144		
PCBs format:	9 Zhaga (Book 15) 2x8		
LED nominal efficacy:	172		
Colour temperature:	PC Amber - 1K8, 2K2, 2K7, 3K, 4K, 5K, TW - Tunable White		
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:	18 light distribution curves. A1,A2,A4 and AE distributions are DarkSky Approved.		
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 (risk-free)		
Initial luminous flux Tj=25°C (up to):	lm	47880	
Initial luminaire efficacy Tj=25°C (up to):	lm/W	162	
Real luminous flux Tj=85°C (UNE EN 13032-4) (up to):	lm	42000	
Real luminaire efficacy Tj=85°C (UNE EN 13032-4) (up to):	lm/W	142	

ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs):	W	170
Maximum power consumed (luminaire):	W	300
Power range:	W	180W - 300W
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 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	72,167
Ambient temperature (Ta):	°C	From -35°C to +50°C
Aerodynamic resistance (CxS):	m2	0.104
Vibration test (15Hz 3 axis):		
Guarantee:	years	5 (extensible up to 10 years)

PACKAGING DIMENSIONS:

Net weight	kg	15.5
Gross weight	kg	18.4
Luminaire dimensions (LxWxH)	mm	950x438x110
Packaging dimensions (LxWxH)	mm	975x470x155
Pieces per box		1
Quantity per container 20ft		336
Quantity per container 40ft		700

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

info@benito.com
tel. 93 852 1000