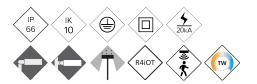
ALMXL

Luminaire

MILAN XL







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 net 5 different sizes. From 20W to 300W 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:

Roads and Motorways Roundabouts Urban Roads and Streets Car Parks

DETAILS:







Double compartment.

Tool-less top opening.

Anti-condensation valve.

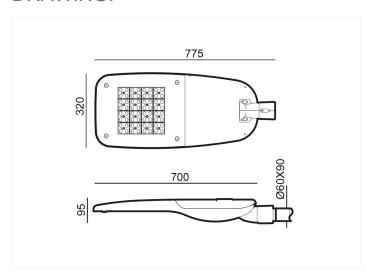
Project sheet | CAD | Catalogue | Mounting instructions | BIM | HD image



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 - IK10
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. Optional: other colours
Mounting:	Post-Top Ø60mm (Ø76mm optional)
Tilt range:	From -15° to +15°
Maintenance:	Easy, tool-less opening. Modular concept for easy component replacement: LEDs, drivers, SPD
Recommended mounting height:	9 - 12 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:



















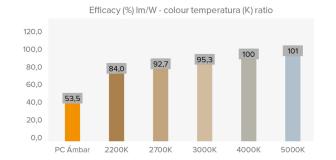
TECHNICAL DATA:

					ı
	REF.	Nº LEDs	Power W	I Driver mA	
		64	100	469	
Milan XL	ALMXL150	64	120	563	
		64	150	703	

Real luminous flux (T) =85°C)		Initial luminous flux (T) =25°C)	
Flux Im	Efficacy Im/W	Flux Im	Efficacy Im/W
14200	142	16188	162
17000	142	19380	162
21000	140	23940	160

Luminous flux and efficiency at 4000°K and CRI>70.

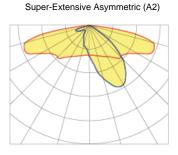
Values may be subject to changes due to LED binning.

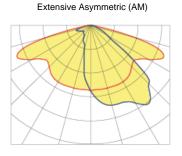


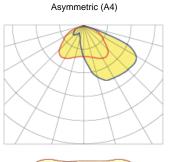
PHOTOMETRY:

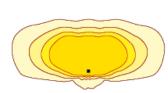
Luminous flux tolerance < +/-3%.

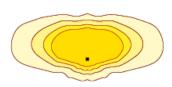
Super-Extensive Asymmetric (AE)

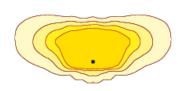














*Show 4 recommended lighting distributions. Refer to the 18 typologies.



LEDs MODULE: BENITO Zhaga standard with 8, 12 and 16 LEDs. Check colour temperatures, CRI and Luminous distributions LEDs module: (Optional NTC temperature probe).

Replaceable module: Yes 5050 LED Number of LEDs: 64

PCBs format: 4 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:

PMMA lenses 2x2 Optic system: Light distributions: 18 light distribution curves

Upward light output ratio ULOR: 0% 100% Downward light output ratio DLOR:

Glare index: Between D5 and D6 (depending on the light distribution)

Between G*4 and G*6 (depending on the light distribution) Luminous intensity category:

>95% (See 18 Light Distributions). Luminous flux CIE nº3:

Photobiological safety: RG0 (exempt of risk)

Initial luminous flux Tj=25°C (up to): lm 23940 Initial luminaire efficacy Tj=25°C (up to): Im/W 162 Real luminous flux Tj=85°C (UNE EN 13032-4) lm 21000 (up to):

Real luminaire efficacy Tj=85°C (UNE EN Im/W 142 13032-4) (up to):

ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs): W 135 Maximum power consumed (luminaire): W Power range: W 100W - 150W

<470 (LED Current = 50% Driver Current) Maximum current of LED: mΑ

Power supply protection classes IEC: Class I and II

Type 2 and Type 3, 10kV and 20kA transient surge protector. Series connection with thermal fuse Surge protection device (SPD):

disconnector for a more effective protection at the end of its service life.

Common and differential mode protection (SPD) k\/ 10 Udc: Max current (8/20) (SPD): kΑ 20 Thermal phase disconnection (SPD): Yes Input voltage: Vac 220-240 Input voltage (max rate): 198-264 Vac Input frecquency: Hz 47-63 Starting current: Α <65

Duration of the starting voltage peak: ms < 0.3 >90% Driver efficacy: Power factor 100% consumption: >0.98 Power factor 50% consumption: >0.95 Total harmonic distortion (THD): <10 Power consumption on standby mode: < 0.4

C (According to EU Regulation 2019/2015 EPREL) - A++ IPEA>1,15 Energy class:

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 From -35°C to +50°C

Aerodynamic resistance (CxS): m2 0.074 Vibration test (15Hz 3 axis):

5 (extensible up to 10 Guarantee: vears

vears)

PACKAGING DIMENSIONS:		
Net weight	kg	9.5
Gross weight	kg	10.5
Luminaire dimensions (LxWxH)	mm	775x320x95
Packaging dimensions (LxWxH)	mm	850x365x150
Pieces per box		1
Quantity per container 20ft		560
Quantity per container 40ft		1176

CERTIFICATES:

OPERATING CONDITIONS:

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



