

APM

Floodlight

MILAN M

Flat-profile Floodlight with low wind resistance. Available in four different sizes and a wide power range, from 20W to 460W. It is available with multiple light distributions to suit each project. Its bracket-mounted design allows for adjustment at any angle. Ready for any dimming control system.

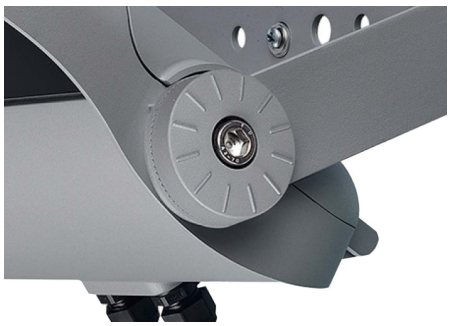
MAIN FEATURES:

High efficiency. Up to 140 lm/W actual.
4 different sizes. From 20W to 460W.
Double cavity, Driver and Optical Group.
18 different light distributions.
Zhaga Standard (Book 15).
Ready 4IoT. Ready for connectivity.
High robustness to 5G vibrations.

APPLICATIONS:

Tunnels and Underground Passages
Roundabouts
Squares
Parking
Architectural; Buildings and Monuments
Sports facilities; Pavilions, Sports Courts, Tennis, Paddle Tennis
Industrial Buildings and Warehouses

DETAILS:



Lyre holding vibration 5G.



Double Cavity.



Optional in RGBW version.

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

BENITO

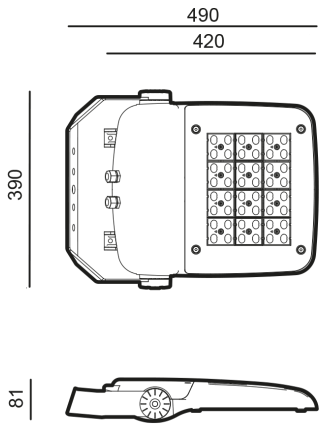
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SPECIFICATIONS :

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 tempered glass. Filters UV rays.
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 through convection, ensuring thermal contact between 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.
Colour:	RAL 9022 color and other colors on request
Mounting:	Steel lyre
Tilt range:	Adjustable Floodlight from -120º to 120º inclination.
Maintenance:	Top-opening for easy handling. Replaceable modules: LEDs, drivers, SPDs.
Recommended mounting height:	6-8 m
Driver:	Dimmable and programmable constant current driver. Built into the luminaire, pre-wired on a steel plate. .
Flow Reduction:	Dimmable 0-10V Driver, programmable in 5 levels and with DALI 2 option. With the features of Wireless, AOC, MTP, DTL.
Ready4IOT - Connectivity:	- Autonomous multiple-level dimming or virtual midnight - Ready4IoT - Dimming by main voltage - Line switch
Surge protection device (SPD):	Type 2, 10-20kV and 20kA transient surge protector. Series connection with thermofuse disconnector for a more effective protection at the end of its service life
DarkSky Approved	

DRAWING:



INSTALLATION:



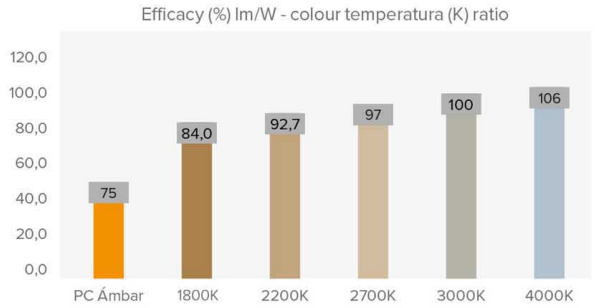
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Ámbar 2200 K 2700 K 3000 K 4000 K 5000 K

lm/€ TRIPLE PROTECTION

TECHNICAL DATA:

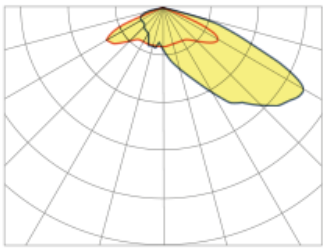
	REF.	Nº LEDs	Power W	I Driver mA	Real luminous flux (T) =85ºC) Flux lm	Real luminous flux (T) =85ºC) Efficacy lm/W	Initial luminous flux (T) =25ºC) Flux lm	Initial luminous flux (T) =25ºC) Efficacy lm/W
		48	100	625	13900	139	15846	158
P Milan M	APM140	48	120	750	16440	137	18742	156
		48	140	875	19040	136	21706	155



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

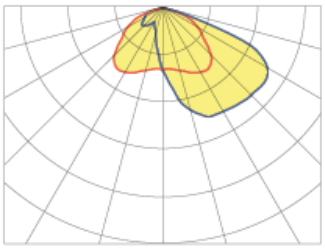
PHOTOMETRY:

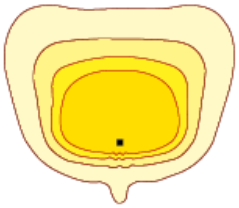
Asymmetric Extensive Frontal (A1)



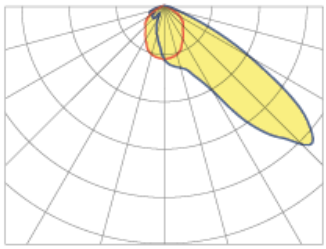


Asymmetric (A4)



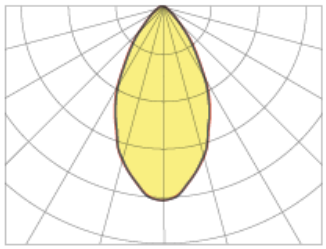


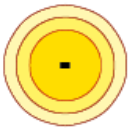
Asymmetric Frontal (AF)





Circular 50° (C5)





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

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LEDs MODULE:

LEDs module:	BENITO Zhaga format with 8, 12, and 16 LEDs. Consult color temperatures, CRI, and light distributions.
Replaceable module:	Yeah
LED:	5050
Number of LEDs:	48
PCBs format:	3 Zhaga (Book 15) 2x8
LED nominal efficacy:	172
Colour temperature:	PC Amber, 2K2, 2K7, 3K, 4K, 5K
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
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%
Photobiological safety:		RG0 (risk-free)
Initial luminous flux Tj=25ºC (up to):	lm	21706
Initial luminaire efficacy Tj=25ºC (up to):	lm/W	158
Real luminous flux Tj=85ºC (UNE EN 13032-4) (up to):	lm	19040
Real luminaire efficacy Tj=85ºC (UNE EN 13032-4) (up to):	lm/W	139

ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs):	W	126
Maximum power consumed (luminaire):	W	140
Power range:	W	80W - 140W
Maximum current of LED:	mA	<400 (<50% Imax)
Power supply protection classes IEC:		Class I and II
Surge protection device (SPD):		Type 2, 10-20kV and 20kA transient surge protector. Series connection with thermofuse disconnector for a more effective protection at the end of its service life
Common and differential mode protection (SPD) Udc:	kV	10 and optional NTC
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:	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 <70ºC:	hours	100,000
Average luminaire useful life L90B10 (TM-21):	hours	72,167
Ambient temperature (Ta):	ºC	From -35°C to +50°C
Aerodynamic resistance (CxS):	m2	0.039
Vibration test (15Hz 3 axis):		
Guarantee:	years	5 years (extensible up to 10 years)

PACKAGING DIMENSIONS:

Net weight	kg	8.2
Gross weight	kg	9.2
Luminaire dimensions (LxWxH)	mm	490x390x81
Packaging dimensions (LxWxH)	mm	500x395x110
Pieces per box		1
Quantity per container 20ft		1344
Quantity per container 40ft		2898

CERTIFICATES:

Security certificates:	EN 60598-1 / EN 60598-2-5 / 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

ISO 9001 ISO 50001 ISO 14001 ISO 45001

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