

APMS

Floodlight

MILAN S

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.

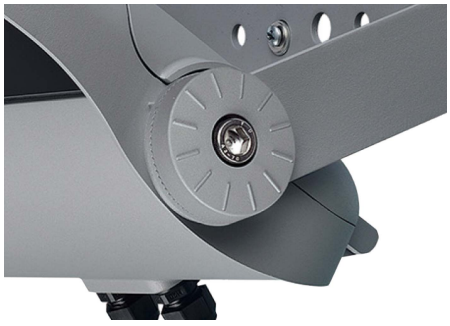
MAIN FEATURES:

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).
High robustness to 5G vibrations.

APPLICATIONS:

Tunnels and Underground Passages
Squares
Parking
Architectural; Buildings and Monuments
Accent Lighting, Trees and Sculptures
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 | HD image

BENITO

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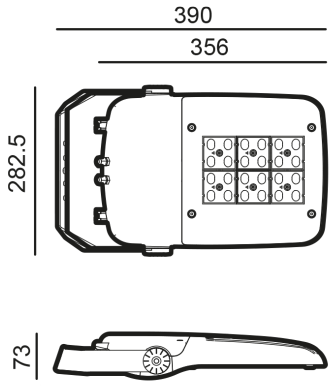
SPECIFICATIONS :

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:	4 - 6m
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 - 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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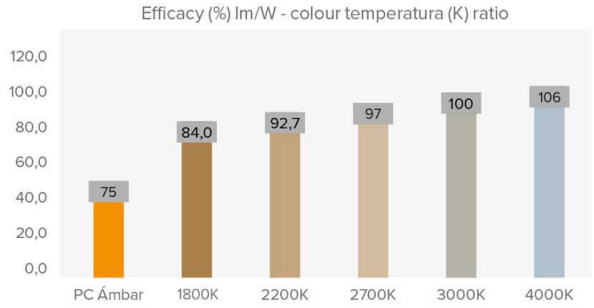
Ámbar 2200 K 2700 K 3000 K 4000 K 5000 K

lm/€ TRIPLE PROTECTION

TECHNICAL DATA:

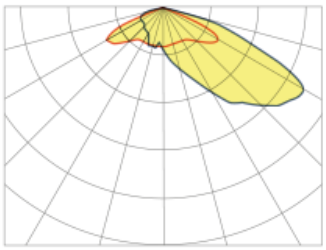
	REF.	Nº LEDs	Power W	I Driver mA	Real luminous flux (T) =85ºC) Flux lm	Real luminous flux (T) =85ºC) Efficacy lm/W	Initial luminous flux (T) =25ºC) Flux lm	Initial luminous flux (T) =25ºC) Efficacy lm/W
		12	20	500	2800	140	3200	160
		12	30	775	4200	140	4800	160
		24	40	500	5600	140	6384	160
P Milan S	APMS80	24	50	645	7000	140	7980	159
		24	60	750	8220	137	9371	156
		36	70	603	9450	136	10773	153
		36	80	667	10800	135	12312	154

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



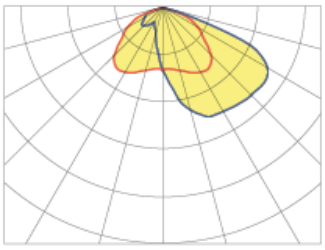
PHOTOMETRY:

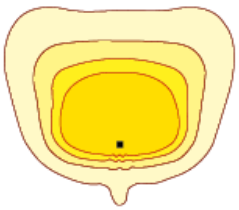
Asymmetric Extensive Frontal (A1)



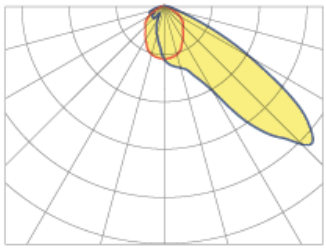


Asymmetric (A4)



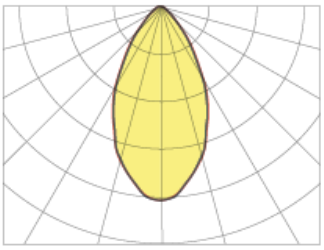


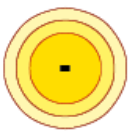
Asymmetric Frontal (AF)





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:	24-36
PCBs format:	2 Zhaga (Book 15) 2x6
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	12312
Initial luminaire efficacy Tj=25ºC (up to):	lm/W	160
Real luminous flux Tj=85ºC (UNE EN 13032-4) (up to):	lm	10800
Real luminaire efficacy Tj=85ºC (UNE EN 13032-4) (up to):	lm/W	140

ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs):	W	72
Maximum power consumed (luminaire):	W	80
Power range:	W	20W - 80W
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	0.028
Vibration test (15Hz 3 axis):		
Guarantee:	years	5 years (extensible up to 10 years)

PACKAGING DIMENSIONS:

Net weight	kg	4.2
Gross weight	kg	4.6
Luminaire dimensions (LxWxH)	mm	390x282.5x73
Packaging dimensions (LxWxH)	mm	400x295x106
Pieces per box		1
Quantity per container 20ft		2420
Quantity per container 40ft		5038

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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