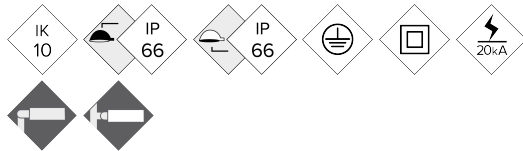




APMR

Floodlight

MILAN M RGBW



RGBW projector with a flat profile, with low wind resistance. Family with three different measurements and a wide range of powers, between 120W and 480W. It is available with multiple light distributions to suit each project. Its anchoring by means of a lyre allows orientations at any angle of inclination. Prepared for Regulation through DMX-512 protocol

MAIN FEATURES:

- High efficiency. Up to 140 lm / W real.
- 3 different measures. From 120W to 480W.
- Double cavity, Driver and Optical Group.
- 4 Groups of RGBW LEDs
- Independent regulation control for each color by means of DMX-512 protocol.
- Great robustness to 5G vibrations.

APPLICATIONS:

- Commercial and Tourist Streets
- Architectural; Buildings and Monuments
- Accent Lighting; Trees and Sculptures

DETAILS:



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

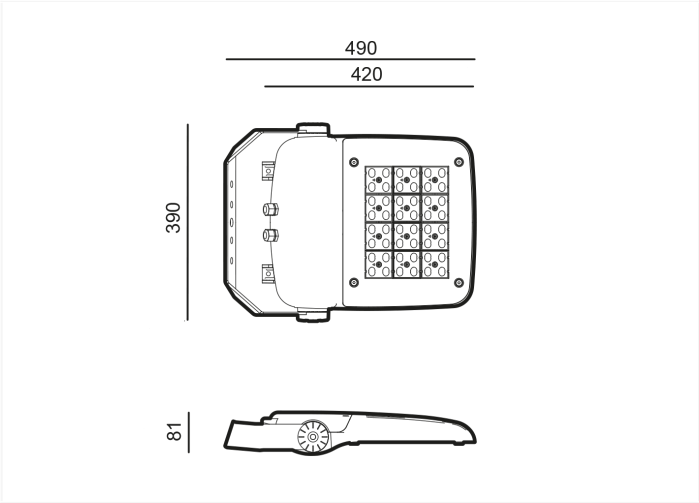
BENITO

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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):	Tempered 5 mm safety glass. UV filter
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):	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:	Fixing bracket
Tilt range:	From -120° to +120°
Maintenance:	Top opening. Modular concept for easy component replacement: LEDs, drivers, SPD
Recommended mounting height:	6-8 m
Driver:	Adjustable and programmable constant current driver. Incorporated inside the luminaire, pre-wired on a galvanized steel plate.
Flow Reduction:	Dimmable Driver through DMX-512 protocol through a decoder.
Ready4IOT - Connectivity:	Dimming control compatible with any DMX-512 system. Optionally, a controller with internal memories of lighting scenes can be supplied. Includes programming software.
Surge protection device (SPD):	Type 2, 10kV and 20kA transient surge protector. Series connection with thermofuse disconnecter for a more effective protection at the end of its service life

DRAWING:



INSTALLATION:



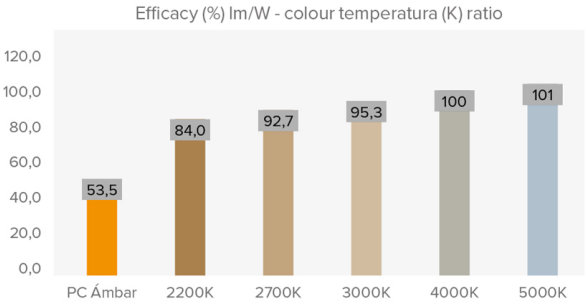
V. 2024-02-23 | The constant improvement and evolution of our products may result in some modifications of the technical specifications and characteristics of the products without prior notice.

TECHNICAL DATA:

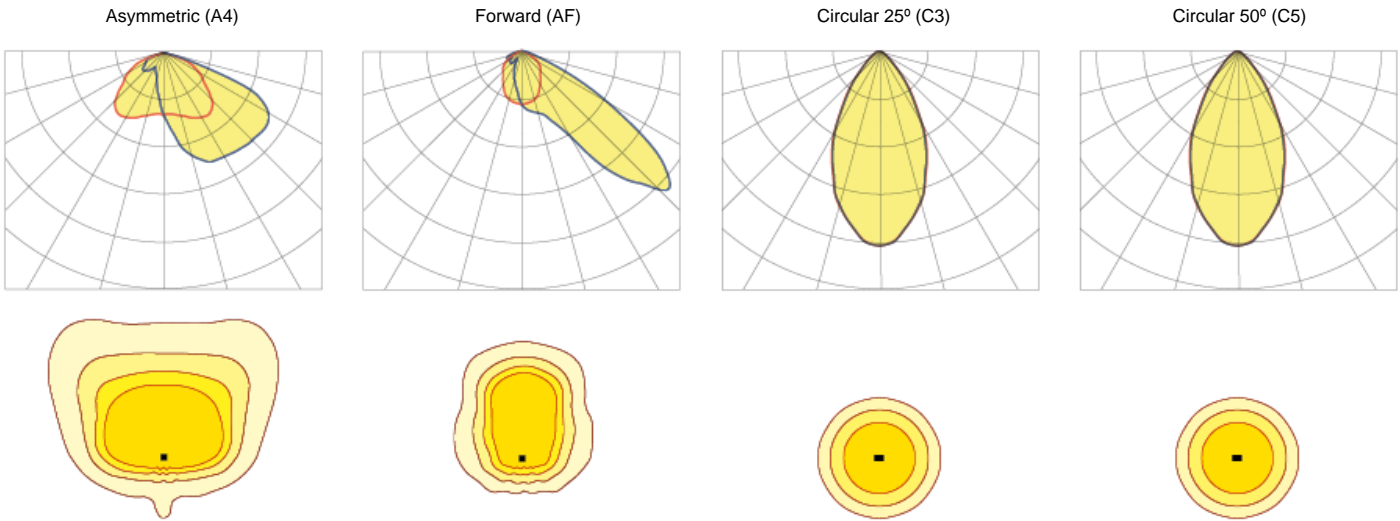


	REF.	Nº LEDs	Power W	I Driver mA	Real luminous flux (T) =85°C		Initial luminous flux (T) =25°C	
					Flux lm	Efficacy lm/W	Flux lm	Efficacy lm/W
P MILAN M RGBW	APMR120	48	100	625	10500	105	11970	120
		48	120	750	12240	102	13954	116

Luminous flux and efficiency at 4000°K and CRI>70.
Luminous flux tolerance < +/-3%.
Values may be subject to changes due to LED binning.



PHOTOMETRY:



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

V. 2024-02-23 | 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.

LEDs MODULE:

LEDs module:	BENITO-NOVATILU Zhaga standard for 8, 12 and 16 LEDs. Check colour temperature, CRI and light distributions		
Replaceable module:	Yes		
LED:	XT-E2		
Number of LEDs:	48		
PCBs format:	Compatible Zhaga.		
LED nominal efficacy:			
Colour temperature:	R - G - B - W		
Colour rendering index CRI:			
Average LED useful time L90B10:	L90B10 >100,000 hours		

OPTIC SPECIFICATIONS:

Optic system:	PMMA lenses 2x2		
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 n°3:	>95%		
Photobiological safety:	RG0 (exempt of risk)		
Initial luminous flux Tj=25°C (up to):	lm	13954	
Initial luminaire efficacy Tj=25°C (up to):	lm/W	120	
Real luminous flux Tj=85°C (UNE EN 13032-4) (up to):	lm	12240	
Real luminaire efficacy Tj=85°C (UNE EN 13032-4) (up to):	lm/W	105	

ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs):	W	108
Maximum power consumed (luminaire):	W	120
Power range:	W	0W - 120W
Maximum current of LED:	mA	<500 (<50% I _{max})
Power supply protection classes IEC:	Class I and II	
Surge protection device (SPD):	Type 2, 10kV and 20kA transient surge protector. Series connection with thermofuse disconnecter for a more effective protection at the end of its service life	
Common and differential mode protection (SPD) U _{dc} :	kV	10 and optional NTC
Max current (8/20) (SPD):	kA	20
Thermal phase disconnection (SPD):	Yes	
Input voltage:	V _{ac}	220-240
Input voltage (max rate):	V _{ac}	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:	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	0.039
Vibration test (15Hz 3 axis):		
Guarantee:	years	5 years (extensible up to 10 years)

PACKAGING DIMENSIONS:

Net weight	kg	8.4
Gross weight	kg	9.4
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



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