APMXXLR

Floodlight

MILAN XXL RGBW

RGBW flat floodlight with low wind resistance. Comprehensive range available in four sizes with extensive optical and light distributions from 120W up to 480Wto cover all applications. Can be tilted in all directions thanks to its fixing bracket. Ready for any intelligent lighting control solutions thanks to the DMX-512 protocol.

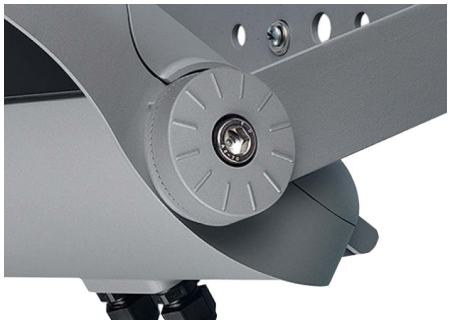
MAIN FEATURES:

High efficacy. Up to 140 lm / W real
3 different sizes. From 120W to 480W
4 Groups of RGBW LEDs
Independent dimming control for each color through DMX-512 protocol
Double compartment: driver and LED module
High resistance to 5G vibrations

APPLICATIONS:

Commercial and Tourist Streets
Architectural; Buildings and Monuments

DETAILS:



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

BENITO

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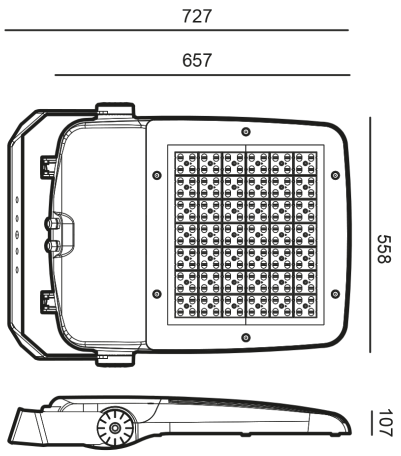
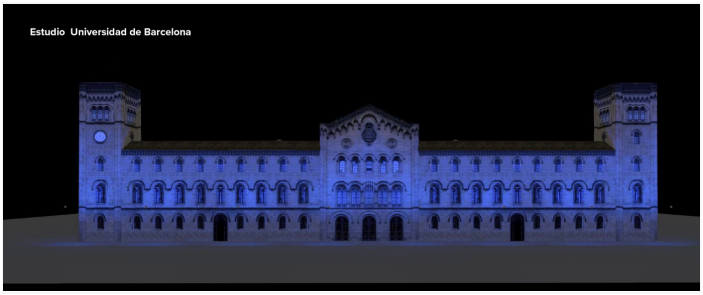
SPECIFICATIONS :

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):	5mm tempered 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 -120º to +120º
Maintenance:	Top opening. Modular concept for easy component replacement: LEDs, drivers, SPD
Recommended mounting height:	10 - 14 m
Driver:	Constant current adjustable and programmable driver. Embedded in the luminaire, pre-wired on a galvanised steel plate
Flow Reduction:	Dimmable driver 0-10V. Programmable on 5 levels. Optional: DALI 2. Includes the characteristics 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, 10kV and 20kA transient surge protector. Series connection with thermofuse disconnector for a more effective protection at the end of its service life

DRAWING:



INSTALLATION:



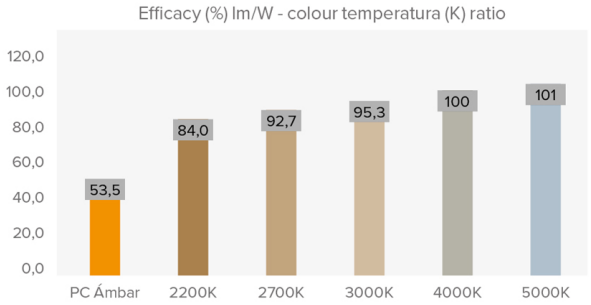
TECHNICAL DATA:

	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
P MILAN XXL RGBW	ALMXXLR480	168	300	536	31500	105	35910	120
		168	350	625	36750	105	41895	120
		168	400	714	41600	104	47424	119
		168	460	857	48960	102	55814	116

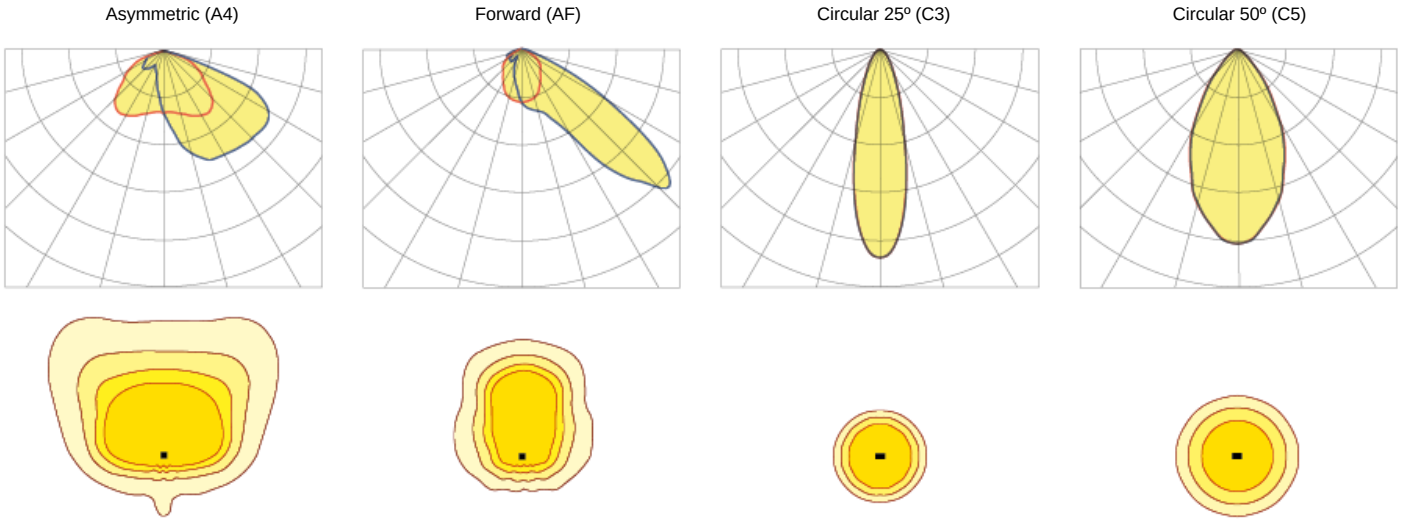
Luminous flux and efficiency at 4000ºK and CRI>70.

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.

LEDs MODULE:

LEDs module:	BENITO-NOVATILU PCB with 48 Compact RGBW LEDs
Replaceable module:	Yes
LED:	XML
Number of LEDs:	48
PCBs format:	
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:		Circular PMMA 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 (exempt of risk)
Initial luminous flux Tj=25ºC (up to):	lm	55814
Initial luminaire efficacy Tj=25ºC (up to):	lm/W	105
Real luminous flux Tj=85ºC (UNE EN 13032-4) (up to):	lm	48960
Real luminaire efficacy Tj=85ºC (UNE EN 13032-4) (up to):	lm/W	105

ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs):	W	432
Maximum power consumed (luminaire):	W	480
Power range:	W	0 - 480W
Maximum current of LED:	mA	<500 (<50% Imax)
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 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:		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	0.078
Vibration test (15Hz 3 axis):		
Guarantee:	years	5 years (extensible up to 10 years)

PACKAGING DIMENSIONS:

Net weight	kg	20
Gross weight	kg	21.8
Luminaire dimensions (LxWxH)	mm	727x558x107
Packaging dimensions (LxWxH)	mm	785x610x165
Pieces per box		1
Quantity per container 20ft		325
Quantity per container 40ft		689

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