ARLC32

MODULE 32

Retrofit module with 32 LEDs. High-efficiency sink made of anodised extruded aluminium. Power from 20W to 120W without affecting the LEDs lifetime. Essential for the technological update of the discharge luminaire. Adapts to any luminaire if combined with a mounting plate.

MAIN FEATURES:

- High efficacy. Up to 142 lm/W net
- 2 different sizes. From 20W to 120W
- 18 light distribution curves
- Zhaga Standard (Book 15)
- Tempered 4mm glass with sealing joint to obtain an IP66 rating

APPLICATIONS:

- Retrofit for classic and discharge luminaire
- Accessory for the luminaires Tomsk, Gas, Vialia, Camprodon, Neovilla, Realia and Isabelina.

CAD | Catalogue | HD image

BENITO

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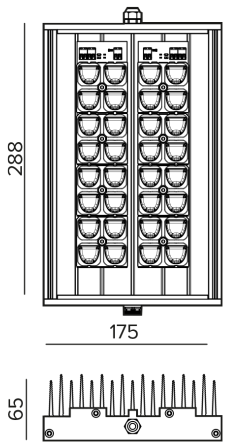
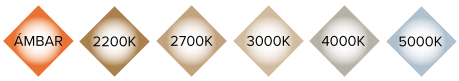
SPECIFICATIONS :

Housing material:	Housing made of high-purity extruded alumium, side covers made of 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):	4mm tempered safety glass. UV filter
Fixing elements:	Stainless steel 18/8 - AISI 304
Housing:	Optional: mounting plate made of aluminium to complete the retrofits
Sealing gaskets:	Silicone
IP rating (luminaire):	
IP rating (optic system):	20-66
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:	Black anodised housing or sink. Polyester powder paint coating on side covers, electrostatically sprayed and sublimated in the oven. Resistant to corrosion
Colour:	Matte black. Optional: other colours
Mounting:	Front mounting by means of self-tapping screws
Tilt range:	Depends on the luminaire
Maintenance:	Modular concept for easy component replacement: LEDs, drivers, SPD
Recommended mounting height:	6-10m
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:

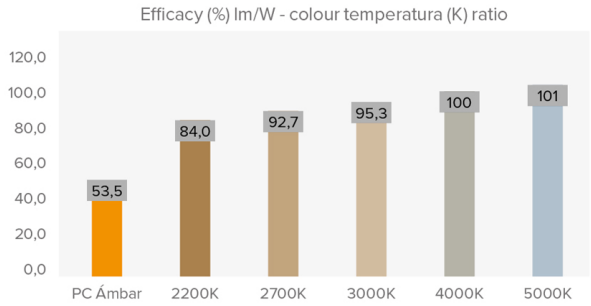




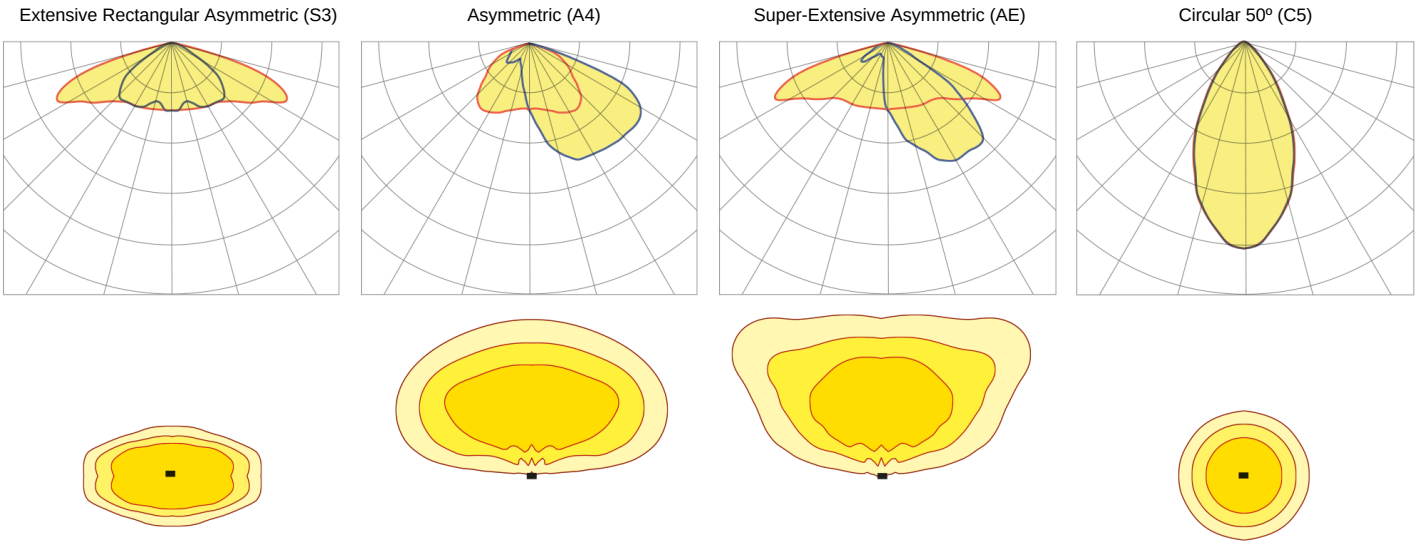
TECHNICAL DATA:

	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
		32	80	750	11360	142	12950	162
Módulo Benito Novatilu	ARLC32	32	100	938	14100	141	16074	161
		32	120	1125	16920	141	19289	161

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 Zhaga standard for 8, 12 and 16 LEDs. Check colour temperature, CRI and light distributions
Replaceable module:	Yes
LED:	5050
Number of LEDs:	24
PCBs format:	2 Zhaga (Book 15) 2x4
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 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 nº3:		>95%
Photobiological safety:		RG0 (exempt of risk)
Initial luminous flux Tj=25ºC (up to):	lm	19289
Initial luminaire efficacy Tj=25ºC (up to):	lm/W	162
Real luminous flux Tj=85ºC (UNE EN 13032-4) (up to):	lm	16920
Real luminaire efficacy Tj=85ºC (UNE EN 13032-4) (up to):	lm/W	142

ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs):	W	108
Maximum power consumed (luminaire):	W	120
Power range:	W	60 - 120 W
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:		>100,000
Average driver useful life to Tp <70ºC:		100,000
Average luminaire useful life L90B10 (TM-21):		
Ambient temperature (Ta):	ºC	From -35°C to +50°C
Aerodynamic resistance (CxS):	m2	
Vibration test (15Hz 3 axis):		
Guarantee:	years	5 years (extensible up to 10 years)

PACKAGING DIMENSIONS:

Net weight	kg	2
Gross weight	kg	
Luminaire dimensions (LxWxH)	mm	288x175x65
Packaging dimensions (LxWxH)	mm	
Pieces per box		1
Quantity per container 20ft		
Quantity per container 40ft		

CERTIFICATES:

Security certificates:	EN 62031 / EN 62493 / EN 62471 / IEC 62778 / EN 61247-2-14
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