ILNA

Luminaire

NEOVILLA-ALU

Classic decorative luminaire with an exclusive design including all necessary technical details for LED technology. Ideal for historical places and urban areas such as roads and squares. Ready for any intelligent lighting control solutions.

MAIN FEATURES:

High efficiency. Up to 134 lm/W net
From 20W to 80W
18 light distribution curves
Zhaga Standard (Book 15)
Tempered glass with sealing joint to obtain an IP66 rating
Exclusive design
Tool-less opening

APPLICATIONS:

Historical Centres
Residential Streets (Zones 30)
Pedestrian Zones
Commercial and Tourist Streets
Rural Roads

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

BENITO

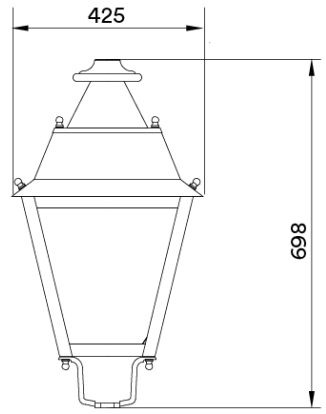
info@benito.com
tel. 93 852 1000

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.

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):	4mm tempered safety glass. UV filter. Optional: side diffusers
Fixing elements:	Stainless steel 18/8 - AISI 304
Housing:	Consists of three pieces: upper housing where the BENITO-NOVATILU LEDs module, the driver and the control electronics are located. Trapezoidal central block. Spider clamp
Sealing gaskets:	Silicone
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:	Microtextured black. Optional: other colours and finishes
Mounting:	Top by means of a 3/4" gas connector. Optional: Ø60mm or suspended 3xM10 120º, accessory not supplied
Tilt range:	
Maintenance:	Tool-less opening by means of threaded part. Modular concept for easy component replacement: LEDs, drivers, SPD
Recommended mounting height:	3 - 7 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:



8,1 Kg | Cx 0,085

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.

AMBAR 2200K 2700K 3000K 4000K 5000K

lm/€ CRI >70% TRIPLE PROTECTION

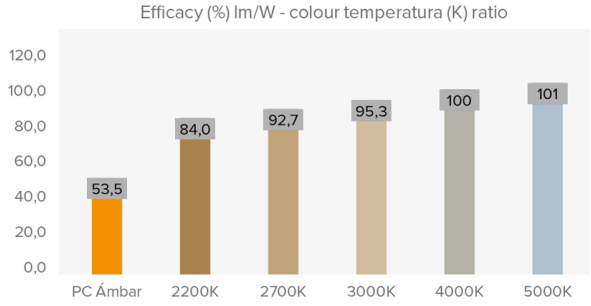
TECHNICAL DATA:

	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
Neovilla Alu	ILNA	16	20	375	2600	130	2964	148
		16	30	563	3900	130	4446	148
		16	40	750	5160	129	5882	147
		16	60	1125	7680	128	8755	146
		32	80	750	10400	130	11856	148
		32	100	938	12900	129	14706	147

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

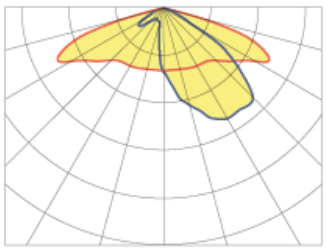
Luminous flux tolerance < +/-3%.

Values may be subject to changes due to LED binning.

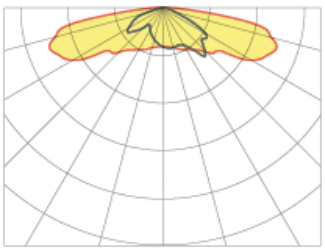


PHOTOMETRY:

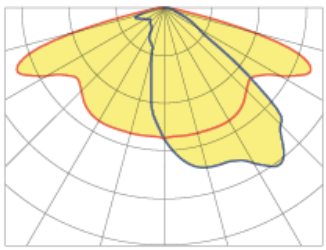
Super-Extensive Asymmetric (AE)



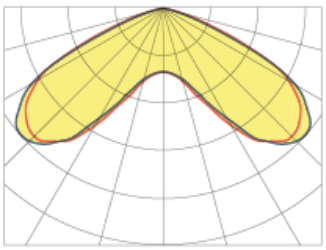
Extensive Asymmetric (A3)

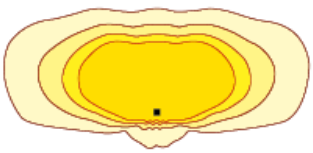


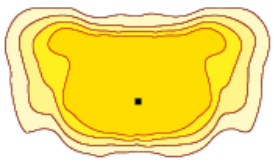
Extensive Asymmetric (AM)

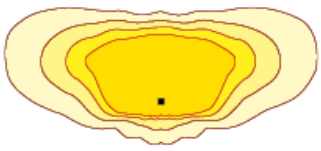


Super-Extensive Circular Symmetric (SE)









*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 16 and 32 LEDs. Check colour temperature, CRI and light distributions
Replaceable module:	Yes
LED:	5050
Number of LEDs:	16 /32
PCBs format:	2x Zhaga (Book 15) 2x4 or 2x 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 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	14706
Initial luminaire efficacy Tj=25ºC (up to):	lm/W	148
Real luminous flux Tj=85ºC (UNE EN 13032-4) (up to):	lm	12900
Real luminaire efficacy Tj=85ºC (UNE EN 13032-4) (up to):	lm/W	130

ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs):	W	73
Maximum power consumed (luminaire):	W	80
Power range:	W	20 - 80W
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 et NTC en option
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	0.085
Vibration test (15Hz 3 axis):		
Guarantee:	years	5 years (extensible up to 10 years)

PACKAGING DIMENSIONS:

Net weight	kg	8.1
Gross weight	kg	
Luminaire dimensions (LxWxH)	mm	425x425x698
Packaging dimensions (LxWxH)	mm	
Pieces per box		1
Quantity per container 20ft		
Quantity per container 40ft		

CERTIFICATES:

Security certificates:	EN 40 / 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 61643-12

Company Certifications

ISO 9001 ISO 50001 ISO 14001 ISO 45001

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.

BENITO

info@benito.com
tel. 93 852 1000