ALS

Luminaire

SIENA



Residential luminaire with a modern design that reminds the one of 4-sided classic luminaires. Ideal for residential urban areas (roads, squares, green spaces...). Power up to 100W thanks to its high dissipation capacity. High resistance and reliability. Ready for any intelligent lighting control solutions.

MAIN FEATURES:

High efficiency. Up to 145 lm/W real
Double cavity, Driver and Optical Group
Adaptable to Ø60mm or Ø76mm
18 different light distributions
Perimeter arrangement of LEDs to minimize shadows.
Compatible with Zhaga (Book 15)
Ready 4IoT. Ready for connectivity

APPLICATIONS:

Historic Centers
Residentials Streets (Zones 30)
Pedestrian Zones
Commercial and Tourist Streets
Squares
Green Areas; Parks and Gardens

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

BENITO

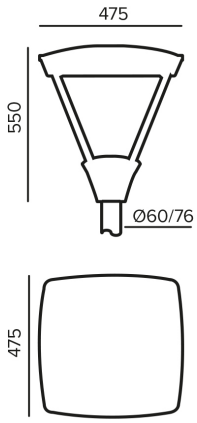
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SPECIFICATIONS :

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. UV filtering.
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):	66
IK rating (impact resistance):	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:	Matte Black color and other colors upon request
Mounting:	Top fixing Ø60mm and Ø76mm
Tilt range:	Non-adjustable luminaire
Maintenance:	Top opening. Replaceable modules: LEDs, drivers, SPDs.
Recommended mounting height:	3 - 6 m
Driver:	Dimmable and programmable constant-current driver. Built into the luminaire, pre-wired.
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 - Ready4IoT - 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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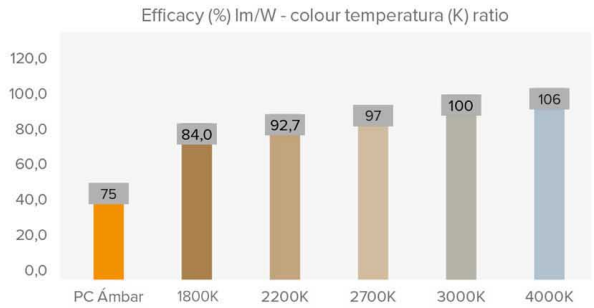
Ámbar 2200 K 2700 K 3000 K 4000 K 5000 K

lm/€ TRIPLE PROTECTION

TECHNICAL DATA:

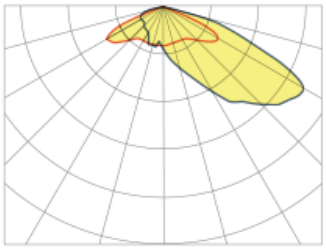
	REF.	Nº LEDs	Power W	I Driver mA	Real luminous flux (T) =85ºC) Flux lm	Real luminous flux (T) =85ºC) Efficacy lm/W	Initial luminous flux (T) =25ºC) Flux lm	Initial luminous flux (T) =25ºC) Efficacy lm/W
		32	20	188	2842	142	3240	162
		32	40	375	5642	141	6432	161
SIENA	ALS	32	60	563	8443	141	9625	160
		32	80	775	11193	140	12760	160
		48	100	625	13900	139	15846	158

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

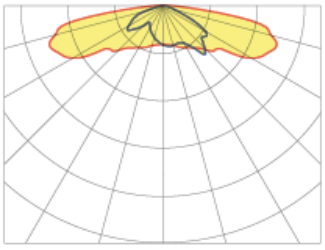


PHOTOMETRY:

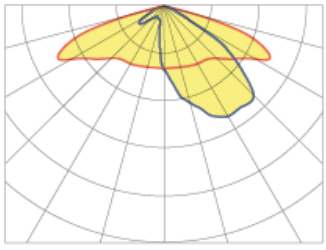
Asymmetric Extensive Frontal (A1)



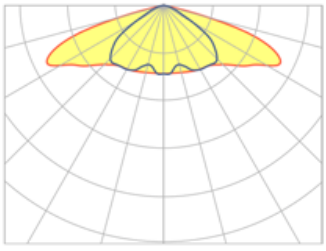
Asymmetric Extensive Wide (A3)



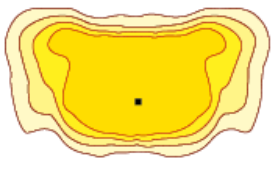
Asymmetric Extensive (AE)

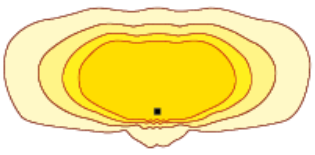


Symmetric Extensive (SE)











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

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LEDs MODULE:

LEDs module:	BENITO Zhaga format with 8 and 16 LEDs. Consult color temperatures, CRI, and light distributions.
Replaceable module:	YEAH
LED:	5050
Number of LEDs:	32 - 48
PCBs format:	4 Zhaga (Book 15) 2x4 or 4 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	15846
Initial luminaire efficacy Tj=25ºC (up to):	lm/W	162
Real luminous flux Tj=85ºC (UNE EN 13032-4) (up to):	lm	13900
Real luminaire efficacy Tj=85ºC (UNE EN 13032-4) (up to):	lm/W	142

ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs):		90
Maximum power consumed (luminaire):	W	100
Power range:	W	20-100W
Maximum current of LED:	mA	<312 (<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	
Ambient temperature (Ta):	ºC	From -35°C to +50°C
Aerodynamic resistance (CxS):	m2	0.070
Vibration test (15Hz 3 axis):		
Guarantee:	years	5 years (extensible up to 10 years)

PACKAGING DIMENSIONS:

Net weight	kg	12
Gross weight	kg	13.5
Luminaire dimensions (LxWxH)	mm	475x475x520
Packaging dimensions (LxWxH)	mm	490x490x550
Pieces per box		1
Quantity per container 20ft		176
Quantity per container 40ft		384

CERTIFICATES:

Security certificates:	EN 60598-1 / EN 60598-2-3 / 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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