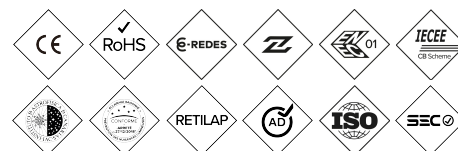
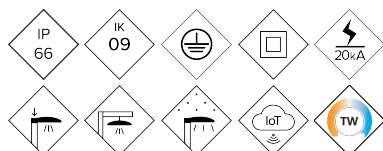


ILDC

Luminaire

DECO CATENARIA



Deco Catenaria belongs to the Essentials family, a set of luminaires of different typologies and styles that share total aesthetic coherence between them. Elegant, decorative, functional and contemporary design. Designed for ambient urban lighting applications, adapting to different outdoor spaces. Ideal for installation on supports between 4 and 8 metres. Optical design optimised for perfect glare control, cut-off suitable for pedestrians and no emission towards the upper hemisphere.

MAIN FEATURES:

High efficiency. Up to 142 lm/W real
Essentials Family. From 20W to 120W
Passive dissipation without fins
18 different light distributions
Zhaga Standard (Book 15)
Ready 4IoT. Ready for connectivity

APPLICATIONS:

Industrial
Architectural areas
Shopping Centers

DETAILS:



Design - By Ramón Úbeda & Otto Canada.



Suspended Installation.

[Project sheet](#) | [CAD](#) | [BIM](#) | [HD image](#)



Double Cavity.

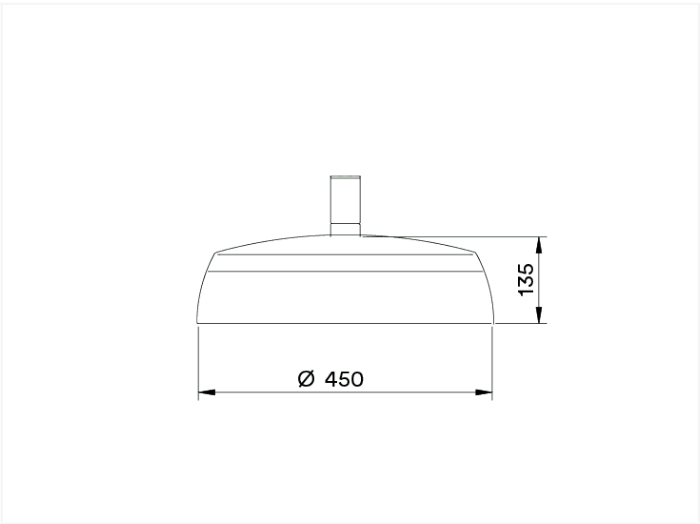
BENITO

info@benito.com
tel. 93 852 1000

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. Filters UV rays.
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):	IP66
IK rating (impact resistance):	IK09
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:	Optional - 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 RAL 9005 (Optional: other colors on request)
Mounting:	Suspended to Catenary
Tilt range:	Not orientable
Maintenance:	Easy to open without any special tools. Replaceable modules: LEDs, drivers, SPDs.
Recommended mounting height:	4 - 8 m
Driver:	Dimmable and programmable constant current driver with different levels (0-10V, 1-10V, DALI2, NFC). Built into the luminaire, pre-wired on a steel plate. .
Flow Reduction:	Double level with control line, different timed levels or virtual midnight, flow reduction at the head.
Ready4IOT - Connectivity:	Zhaga Base (Book 18) - D4i. (Optional). NEMA 5,7 Pins Base (Optional).
Surge protection device (SPD):	Type T2+T3, 10-20kV and 20kA transient surge protector. Series connection with thermofuse, disconnection for a more effective protection at the end of the SPD service life. (Optional SPD Full Permanent Surge Protector >264Vac to <170Vac).
DarkSky Approved	

DRAWING:



INSTALLATION:

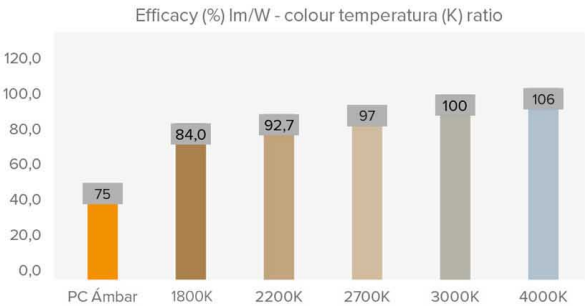


V. 2025-12-12 | The constant improvement and evolution of our products may result in some modifications of the technical specifications and characteristics of the products without prior notice.

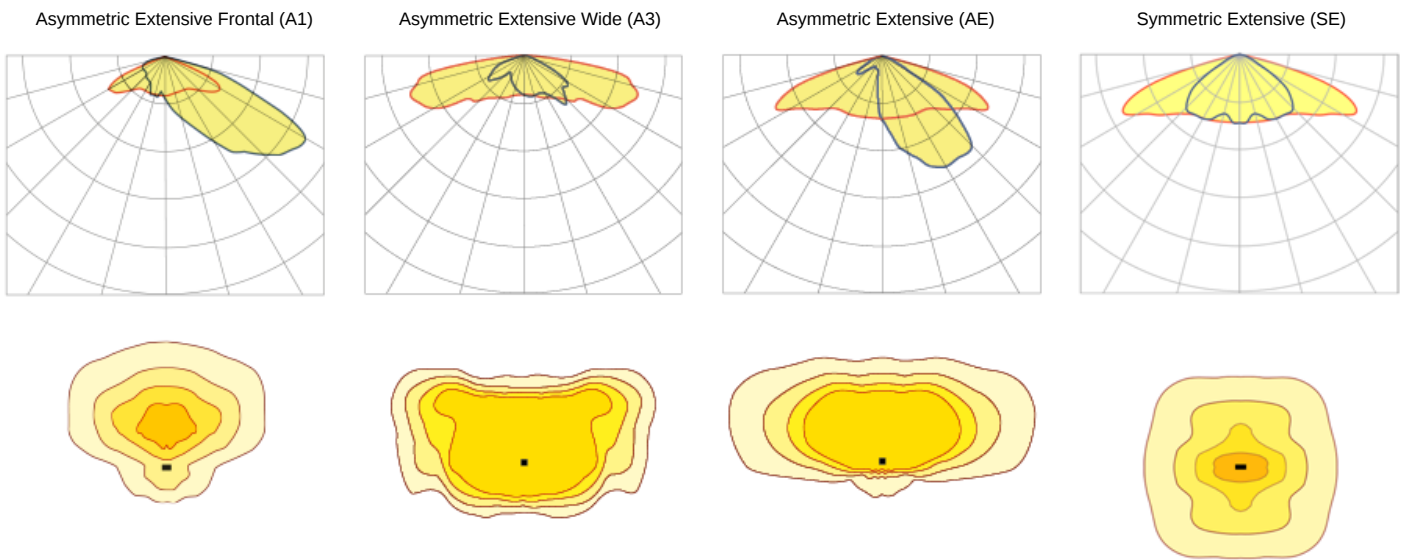
TECHNICAL DATA:

	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
DECO CATENARIA	ILDC	16	20	375	2842	142	3240	162
		16	30	563	4242	141	4836	161
		16	40	750	5642	141	6432	161
		32	50	470	7050	142	8055	162
		32	60	563	8460	141	9644	161
		32	80	750	11280	141	12859	161
		48	100	625	14100	141	16074	161
		48	120	750	16920	141	19289	161

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



PHOTOMETRY:



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

LEDs MODULE:

LEDs module:	BENITO Zhaga format with 8 and 16 LEDs. See color temperatures, CRI, and light distributions. (NTC temperature probe optional).		
Replaceable module:	Yeah		
LED:	5050		
Number of LEDs:	16-32-48		
PCBs format:	1 or 2 Zhaga (Book 15) 2x8 + 2 Zhaga (Book 15) 2x4		
LED nominal efficacy:	172 lm/W		
Colour temperature:	PC Amber, 2K2, 2K7, 3K, 4K, TW - Tunable White		
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 n°3:	>95% (See 18 Light Distributions).		
Photobiological safety:	RG0 (risk-free)		
Initial luminous flux Tj=25°C (up to):	lm	19289	
Initial luminaire efficacy Tj=25°C (up to):	lm/W	162	
Real luminous flux Tj=85°C (UNE EN 13032-4) (up to):	lm	16920	
Real luminaire efficacy Tj=85°C (UNE EN 13032-4) (up to):	lm/W	142 (Rendimiento = 82.6 % lm/W (Real 85°C) ÷ lm/W (Nominal Led))	

ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs):	W	108
Maximum power consumed (luminaire):	W	120
Power range:	W	20 - 120
Maximum current of LED:	mA	<470 (LED Current = 50% Driver Current).
Power supply protection classes IEC:	Class I and II	
Surge protection device (SPD):	Type 2 and Type 3, 10-20kV and 20kA transient surge protector. Series connection with thermal fuse disconnecter for a more effective protection at the end of its service life.	
Common and differential mode protection (SPD) Udc:	kV	10
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 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:	<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 <70°C:	hours	100.000
Average luminaire useful life L90B10 (TM-21):	hours	72.167
Ambient temperature (Ta):	°C	de -35°C a +50°C
Aerodynamic resistance (CxS):	m2	0,054
Vibration test (15Hz 3 axis):		
Guarantee:	years	5 (extensible up to 10)

PACKAGING DIMENSIONS:

Net weight	kg	8,5
Gross weight	kg	41
Luminaire dimensions (LxWxH)	mm	450x450x135
Packaging dimensions (LxWxH)	mm	520x520x260
Pieces per box		1
Quantity per container 20ft		
Quantity per container 40ft		

CERTIFICATES:

Security certificates:	EN 60598-1 / EN 60598-2-3 / 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 / EN62031 / EN 16474 / ISO 9227 / EN 60068-2-11 / ISO 10289 / EN 61643-11		

Company Certifications



BENITO

info@benito.com
tel. 93 852 1000