

The *Bali* street lamp has a more neutral, abstract shape, resulting from the combination of a column and a lamp holder with the same prismatic cross section of 200 x 100 mm. It has a single, double and symmetrical step configuration, with a maximum height of 8 metres. It may be fitted with LED technology and alternatively, with a discharge lamp.

LED | CE | UNE-EN 40-5 | Aluminium  | IP66 (opt.) | IK08 |  | ⚡ 10 KV |  7 m/max |  148 kg

 Update 15.04.2021



Ton Riera + Jordi Miralles + Jordi Miró 2013

Origin

In its original discharge lamp configuration, the *Bali* street lamp was used within the context of a project sponsored by the council of Vilanova i la Geltrú to light up the Rambla Principal at the point where it intersects with the Sea Promenade. Later *Bali* was installed in Paseo de Sant Joan, Barcelona, with LED technology based on a project by the architect Lola Domènech.

Flexible

The system for anchoring the lamp holder to the column means it can be installed at different heights of between 4 and 8 metres, and in combinations of single or double lamp holders, to achieve an improved light distribution, with powers of 25 W, 50 W, 75 W and 100 W in LED technology, or alternatively, with a discharge lamp and powers of 45 W, 60 W, 90 W and 140 W.

Adaptable

In the LED technology mode, the lower plane allows for the installation of between one and four LED modules, with a free combination of PCB and optical light ballasts.

Material

The prismatic column with a cross section of 200 x 100 mm is made from painted, galvanized steel. The lamp holder is made from painted extruded aluminium and has the same cross section as the column. It is installed fastened to the column through previously-drilled holes and anchored with invisible screws.

Installation

Must be unloaded and handled with slings. Anchored with a base plate and four threaded bolts to a concrete foundation with the recommended generic dimensions.



The wide range of heights and configurations, as well as the versatility of its modules and optics, ensure that it is suitable for a wide variety of urban environments, with optimum and precise light distribution at night and a discreet presence during the day.



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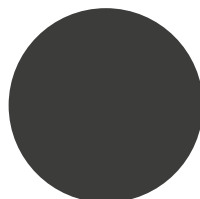
1. Lighting

Bali LED	Lighting
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Dimensions	110 x 20 x 10 cm
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Weight	11kg
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Finish	
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Black colour, forged effect



1.1 General features

Material	Extruded aluminium 6063 T5	Power supply voltage (V)	220 -240
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Frequency (HZ)	50-60	Powers (W)	25/ 50/ 75/ 100
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No. of LEDs	12/ 24/ 36/ 48	LED intensity (mA)	700
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Power factor	0,95 (min)	Colour temperature (°K)	3000 Warm white 4000 Neutral white
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Luminous flux (lm)	 Warm white from 2404 a 9616	Luminous efficiency (lm/W)	Warm white from 81 a 90
	 Neutral white from 2551 a 10414		Neutral white from 86 a 98

FHS light pollution	0,89% (max)	Equipment class	Clase I
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IP protection level	IP56 (lamp) iP66 (optics / components)	IK protection level	IK08
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Chromatic reproduction CRI	80	Luminous flux maintenance	50.000h L70F10 (T 25°C)
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Service temperature	de -20 a +50°C	Maximum assembly height	8 m
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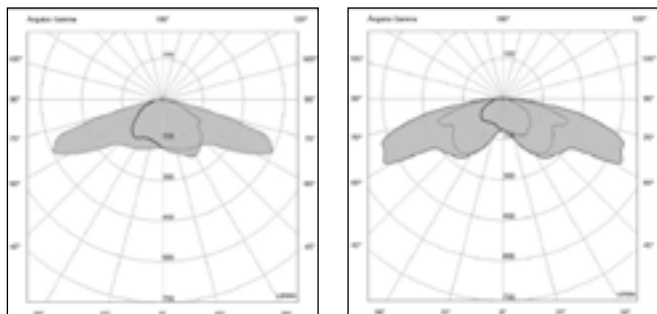
Surface area exposed to the wind (m²)	0,22	Regulation	1 - 10V (DALI optional)
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Overvoltage protection	10KV		
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1.2. Photometry

Light distribution

According to IESNA classification (Illuminating Engineering Society of North America)



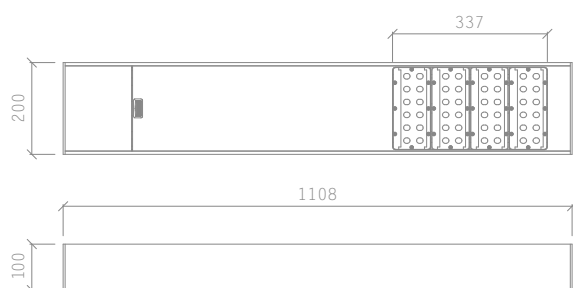
IESNA TYPE III
LED3C/ LED3F

IESNA TYPE IV
LED4C/ LED4F

Side asymmetrical

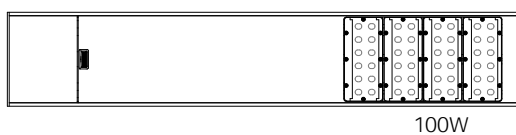
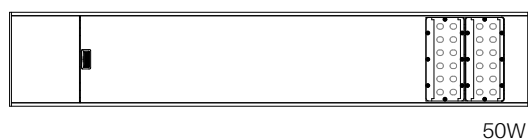
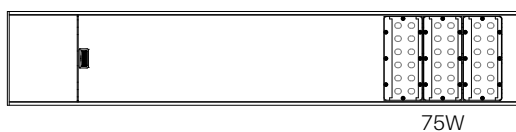
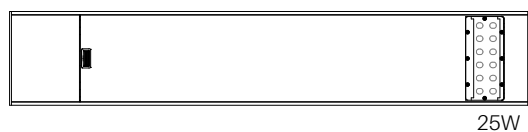
Front asymmetrical

1.3. Design and dimensions



Bali LED

1.4 Optical distribution unit



1.5 Table of specifications

Model	Optical type	Number of LEDs	Chromatic reproduction index, CRI	Colour temperature (°K)	LED type	LED intensity (mA)	LED power (W)	Lighting power (W)	Luminous flux (lm)	Luminous efficiency (lm/W)				
BALI-LUM/25WLED3C	LED3C	12	70	3000	Luxeon TX	700	23,5	29,80	2.404,21	80,68				
BALI-LUM/25WLED4C	LED4C													
BALI-LUM/25WLED3F	LED3F			4000							23,4	29,58	2.550,90	86,24
BALI-LUM/25WLED4F	LED4F													
BALI-LUM/50WLED3C	LED3C	24		3000			47	55,30	4.807,53	86,94				
BALI-LUM/50WLED4C	LED4C													
BALI-LUM/50WLED3F	LED3F			4000			46,7	54,80	5.297,70	96,67				
BALI-LUM/50WLED4F	LED4F													
BALI-LUM/75WLED3C	LED3C	24		3000			70,6	81	7.210,80	89,02				
BALI-LUM/75WLED4C	LED4C													
BALI-LUM/75WLED3F	LED3F			4000			70	80,80	7.953,71	98,43				
BALI-LUM/75WLED4F	LED4F													
BALI-LUM/100WLED3C	LED3C	36	3000	94,1	106,80	9.615,91	90,04							
BALI-LUM/100WLED4C	LED4C													
BALI-LUM/100WLED3F	LED3F		4000	93,4	106,20	10.414,03	98,06							
BALI-LUM/100WLED4F	LED4F													

* Variations optional according to the project

1.6 Lighting regulations

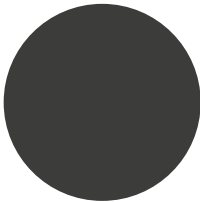
UNE-EN 60598-2-3:2003+Corr:2005+A1:2011
(en conjunción con UNE-EN 60598-1:2015)
UNE-EN 62031:2009+A1:2013+A2:2015
UNE-EN 50102:1996+A1:1999+Corr:2002+A1
CORR:2002
UNE-EN 61000-3-2: 2014
UNE-EN 61000-3-3: 2013
UNE-EN 55015:2013
UNE-EN 61547:2011
UNE-EN 62493:2011

1.7 Advice

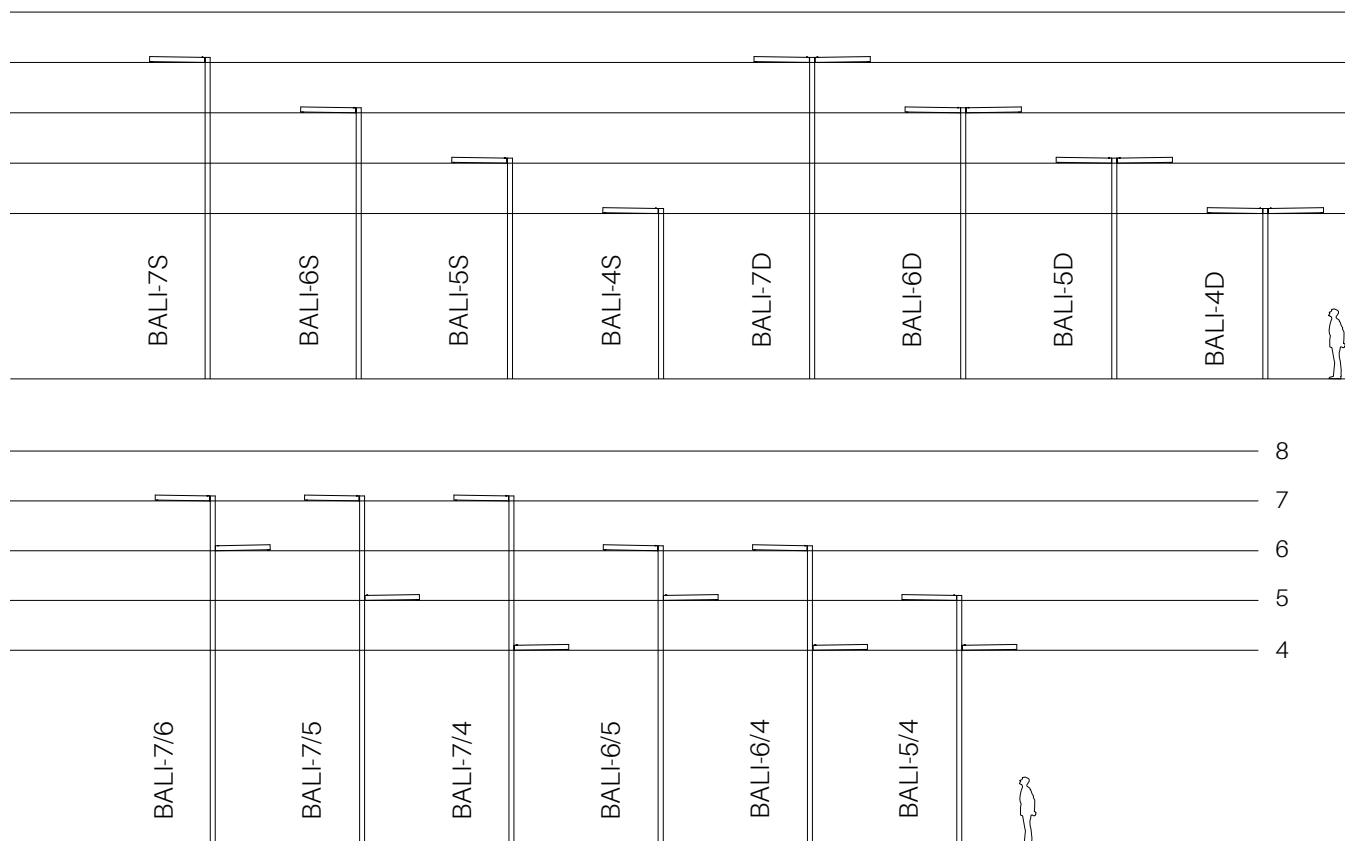
The light source of the lightings must be replaced only by the manufacturer or its technical service or by an equivalent qualified person.

The lighting should be installed such that prolonged staring at the lighting from a distance of closer than 2.8 metres is not expected.

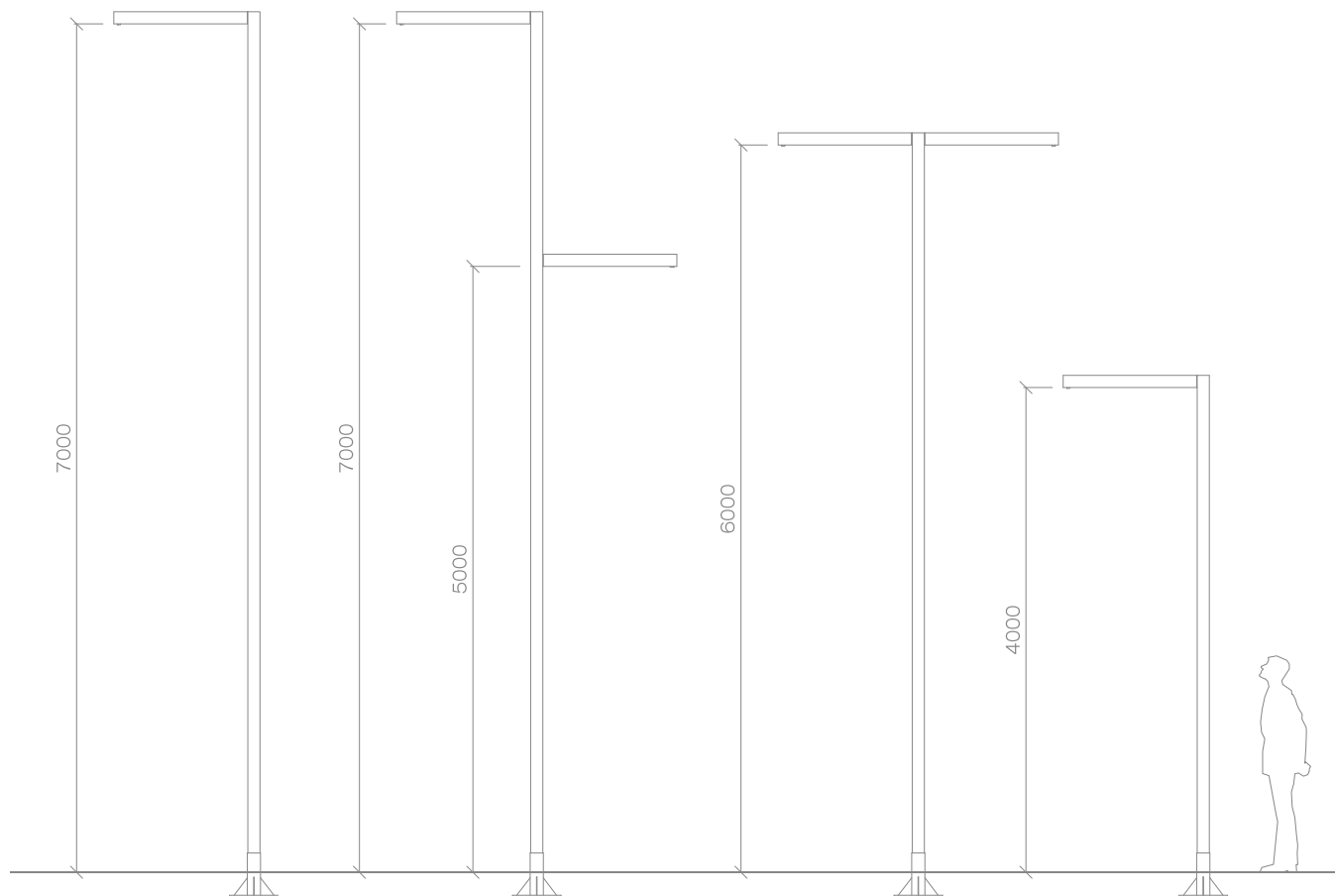
2. Post

Bali			
Material	Carbon Steel S275JR galvanized	Weight	94 kg (4 m); 112 kg (5 m); 130 kg (6 m); 148 kg (7 m)
Dimensions	7000 x 200 x 100 mm (máx)	Thickness	4 mm
Finish	<ol style="list-style-type: none"> Two-component, zinc phosphate epoxy primer. Two-component polyurethane enamel, satin finish. URKI-NATO SAT, classified M-1 as per UNE 23727:1990. F-1 as per NF F-16101. 		
			
	<p>A. Black colour, forged effect</p>		
Post regulations	UNE-EN 40-5:2002	Reinforcement	Bottom ring, 4 mm thick

2.1 Configurations



2.2 Design options



Bali simple

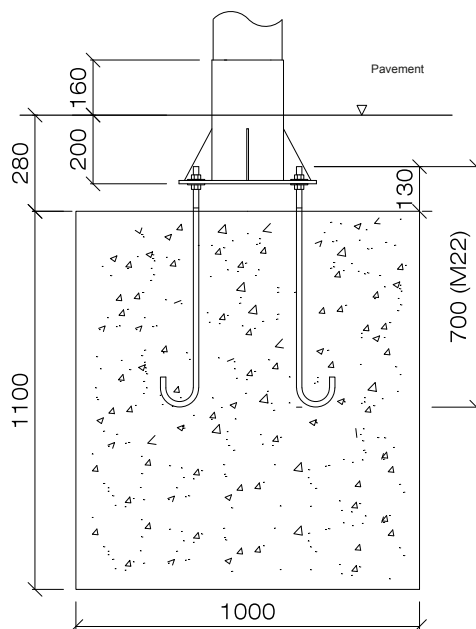
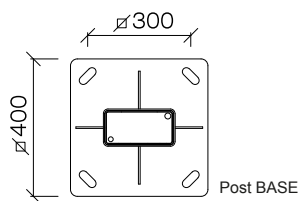
Bali double height

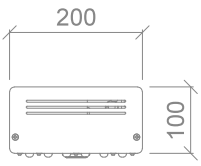
Bali double

2.3 Foundation

4 bolts
M22 x 700mm

Footing of
1000 x 1000 x 1100mm





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The names, trade marks and industrial models of the products have been deposited in the corresponding registries. The technical information provided by Escofet about its products may be modified without prior notice.

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