

Project Title:	T Zone		Submission no:	TSE006
Contract No:	HLN.0271			
To:	Andrew Thelwell Bam Design Conor Walsh Cundalls Ben Hokins Bennetts	Company:	Bam Design- For Comment Cundalls Information only Bennetts- information only	

Approval of the following equipment is required:

Equipment:	Luminaire Reference DL1
Manufacturer:	iGuzzini
Description:	DL1 Type Luminaire

Specification References:
 Bam Design Particular Specification KXT/T2/001/E/BD4507/60/850.
 Bam Design Luminaire Schedule 10 revision 007.

Attached Detail Documents:	
Equipment specifying schedule.	As enclosed in this submittal
Manufacturer's quotation.	N/A
Manufacturer's details.	As enclosed in this submittal
Design check calculations.	As enclosed in this submittal
Certified performance levels.	As enclosed in this submittal
Builderswork requirements.	As enclosed in this submittal
Assembly and installation details.	As enclosed in this submittal
Operation and maintenance details.	As enclosed in this submittal
List of recommended spares.	To be confirmed at a later date
OTHER	

Electrical requirements for equipment:
Planned site delivery: 2019

Issued by: BAM Construction Ltd.	Anthony Ambrose	Date	20/11/2018
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Please return comments by: 04.12.2018 To achieve Cad Co-ord programme & construction delivery dates.

To be completed and returned by MEPH Consultant Design Engineer

Technical submission is ** approved / approved with comments / not approved.
 (**delete as appropriate)

Returned by:		Company:	
Signature:		Date:	

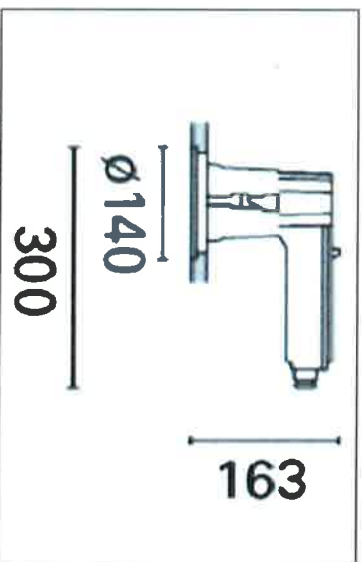
PRODUCT DATA SHEET

Project: **King's Cross, Site T2/T3**
Status: Stage 4
Revision: 04

DL/1
Product Reference



BV33 iRound Luminaire.



Luminaire Dimensions.

Recessed spotlights within Ground Floor Soffit. To provide functional and ambient wash of light to exterior Entrance Areas. (Custom RAL finish to be confirmed).

Ordering and Product Details

Part Number: BV33 - iRound

Description: IP66 Exterior Rated 3000K warm white Mains Switched Driver and Power Supply as advised by manufacturer. Custom RAL finish available.

Manufacturer / Supplier Details

Iguzzini
Keith Cross
07850 369713
01483 468000
keith.cross@iguzzini.co.uk
www.iguzzini.com

Lamp Specification

Lamp Type: LED
Colour Temperature: 3000K
Wattage: 19W
Input Voltage: 240V
Beam Angle: 38 Degrees
Lumen Output: 2550lm
IP rating: IP66
CRI: 80

Control Specification

Mains Switched
Driver to be confirmed by manufacturer.

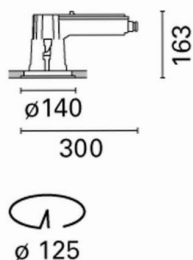
Notes

1. For all the quantities please see **KXC-12-001-J-250-63-700** Lighting Schedule
2. For lighting layouts please refer to drawing **KXC-12-001-J-250-63-101**.
3. Manufacturers installation/wiring details must be adhered to
4. Required installation equipment to be ordered together with the fittings.
5. Luminaire sample to be requested prior to ordering.
6. Custom finish to spotlight to be confirmed by BAM Construction and Bennetts Associates.
7. Exact RAL to be issued to Guzzini upon ordering



Michael Grubb Studio
Michael Grubb Studio Ltd 2 Divisadero Walk, Bournemouth D19 2CA
T: 44 (0)1202 511 005 or info@michaelgrubbstudio.com
www.michaelgrubbstudio.com

Last information update: August 2018



Ceiling-mounted recessed luminaire with IP66 protection rating, small body with box, Warm White COB Leds, fixed Flood Optic - Dimm. DALI

Product code
BV33

Technical description

Downlighter designed to use warm white COB Led lamps with a fixed Flood optic. Consists of a round optical assembly, frame, lateral component holder box and an outer casing to be ordered separately where necessary. The optical assembly and frame are made of EN1706AC 46100LF aluminium alloy and subjected to a multi-step, pre-treatment process, in which the main phases are degreasing, fluorozirconation (a protective surface film) and sealing (with a nano-structured silane layer). The next painting stage consists of a primer and a liquid acrylic paint, cured at 150°C, with a high level of weather and UV ray resistance. The tempered sodium-calcium sealing glass is transparent, with customised serigraphy on the edge, 4 mm thick, joined to the frame with silicone. Complete with monochrome Warm White COB LED circuit and an optic with a 99.93% polished super-pure aluminium reflector with a polished, anodized surface and built-in DALI electronic ballast. The lateral component holder box and top end cap are made of high performance black plastic; supplied with a silicone internal seal to guarantee watertightness. The optical assembly and lateral box are connected by a stainless steel threaded connector with a cable gland rubber gasket for a watertight seal. Set up for pass-through wiring using two PG13.5 grey polyamide cable glands, suitable for cables with diameter 8.5-12.5mm. Ceiling-mounting system consists of special A2 stainless steel screws complete with black aluminium alloy and plastic coupling supports. The frame comes complete with A2 stainless steel captive screws. There is a single tool (No. 3 Allen key) for opening the frame and for the fixing system. The outer casing for concrete ceilings is made of black-painted ready-galvanised sheet aluminium complete with an end cap and threaded bar, to be ordered separately. All external screws used are made of A2 stainless steel.

Installation

Recessed in false ceilings 5 - 50mm thick. Hole for preparation of false ceiling $\varnothing=125$ mm. Installed on concrete ceilings using an outer casing, to be ordered separately.

Dimension (mm)

$\varnothing 140 \times 163$

Colour

Grey (15)

Weight (Kg)

1.3

Mounting

ceiling recessed

Wiring

Control gear complete with dimmable DALI electronic ballast (220÷240Vac 50/60Hz)

Notes

Plastic adapter disk available for flush-mounting the frame on ceilings made of concrete exposed to view (can only be used with the product with aluminium frame, without the stainless cover). Products set up for installation of a stainless steel safety kit L=2000mm..

Complies with EN60598-1 and pertinent regulations



Product configuration: BV33

Product characteristics

Total lighting output [Lm]: 2050
Total power [W]: 21.6
Luminous efficacy [Lm/W]: 94.9
Life Time: 100,000h - L80 - B10 (Ta 25°C)
Ambient temperature range: from -20°C to +35°C.

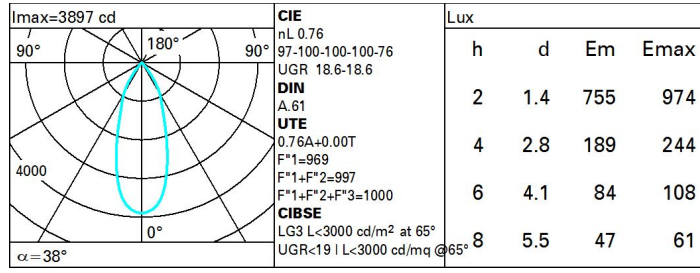
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Life Time: 100,000h - L80 - B10 (Ta 40°C)
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 76
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 19
Nominal luminous [Lm]: 2700
Lamp maximum intensity [cd]: /
Beam angle [°]: 38°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.6
Colour temperature [K]: 3000
CRI: 80
Wavelength [Nm]: /
MacAdam Step: 2

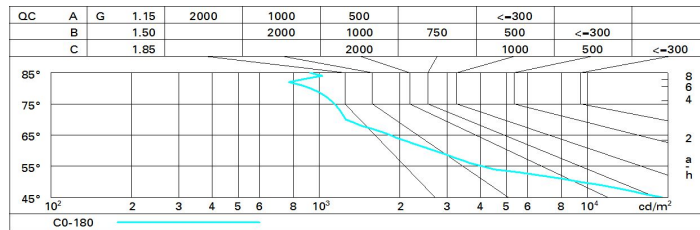
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	68	64	61	59	63	61	60	58	76
1.0	71	67	65	63	67	64	64	61	81
1.5	75	72	70	68	71	69	69	66	87
2.0	77	75	74	72	74	73	72	70	92
2.5	78	77	76	75	76	75	74	72	95
3.0	79	78	78	77	77	76	75	74	97
4.0	80	80	79	79	78	78	77	75	99
5.0	81	80	80	80	79	79	77	76	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 2700 lm bare lamp luminous flux)											
Reflect.:		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
ceiling/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim		viewed crosswise					viewed endwise				
x	y										
2H	2H	19.1	19.8	19.4	20.0	20.3	19.1	19.8	19.4	20.0	20.3
	3H	19.0	19.6	19.3	19.9	20.1	19.0	19.6	19.3	19.9	20.1
	4H	18.9	19.5	19.3	19.8	20.1	18.9	19.5	19.3	19.8	20.1
	6H	18.9	19.4	19.2	19.7	20.0	18.8	19.4	19.2	19.7	20.0
	8H	18.8	19.3	19.2	19.6	20.0	18.8	19.3	19.2	19.6	20.0
	12H	18.8	19.2	19.2	19.6	19.9	18.8	19.2	19.2	19.6	19.9
4H	2H	18.9	19.5	19.3	19.8	20.1	18.9	19.5	19.3	19.8	20.1
	3H	18.8	19.3	19.2	19.6	19.9	18.8	19.3	19.2	19.6	19.9
	4H	18.7	19.1	19.1	19.5	19.9	18.7	19.1	19.1	19.5	19.9
	6H	18.6	19.0	19.0	19.4	19.8	18.6	19.0	19.0	19.4	19.8
	8H	18.6	18.9	19.0	19.3	19.8	18.6	18.9	19.0	19.3	19.7
	12H	18.5	18.8	19.0	19.3	19.7	18.5	18.8	19.0	19.2	19.7
8H	4H	18.6	18.9	19.0	19.3	19.7	18.6	18.9	19.0	19.3	19.8
	6H	18.5	18.8	19.0	19.2	19.7	18.5	18.8	19.0	19.2	19.7
	8H	18.4	18.7	18.9	19.1	19.6	18.4	18.7	18.9	19.1	19.6
	12H	18.4	18.6	18.9	19.1	19.6	18.4	18.6	18.9	19.1	19.6
12H	4H	18.5	18.8	19.0	19.2	19.7	18.5	18.8	19.0	19.3	19.7
	6H	18.4	18.7	18.9	19.1	19.6	18.4	18.7	18.9	19.1	19.6
	8H	18.4	18.6	18.9	19.1	19.6	18.4	18.6	18.9	19.1	19.6
Variations with the observer position at spacing:											
S =	1.0H	5.2 / -12.6					5.2 / -12.6				
	1.5H	8.0 / -14.5					8.0 / -14.5				
	2.0H	10.0 / -15.7					10.0 / -15.7				