

Project Title:	T Zone	Submission no:	TSE030
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 UL1
Manufacturer:	iGuzzini
Description:	UL1 Type Luminaire surface mounted, in general areas all buildings.

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

Product Reference

UL/1

Inground LED uprights to ground floor Colonnades. To provide ambient, very narrow beam wash of light to exterior colonnades and undercroft.



Ordering and Product Details

Part Number: E142 - Light Up / Earth

Description: Inground recessed upright. Narrow beam adjustable 12 degree optic. Stainless Steel Finish. To include required remotely located drivers.

Manufacturer / Supplier Details

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

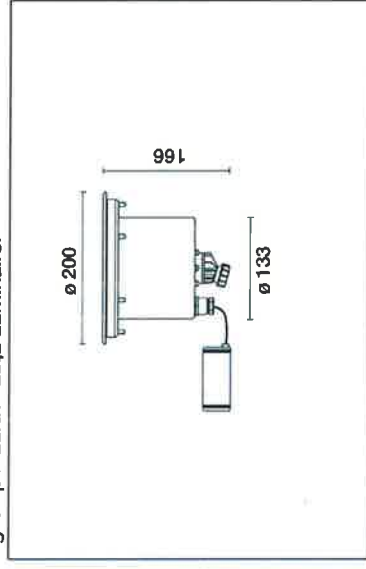
Lamp Specification

Lamp Type: LED
Color Temperature: 3000K
Wattage: 15W
Lumen Output: 2000lm
IP rating: IP68
CRI: 80
Beam Angle: 12 Degree

Control Specification

Mains Switched.
Driver to be confirmed by manufacturer.

Light Up / Earth - E142 Luminaire.



Indicative Dimensions.

Notes

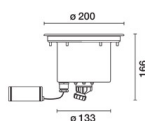
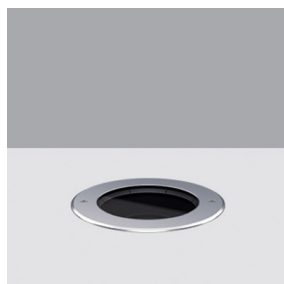
- 1: For all the quantities please see **KXC-T2-001-J-250-63-700** Lighting Schedule.
- 2: For lighting layouts please refer to drawing **KXC-T2-001-J-250-63-16F**.
- 3: Manufacturers installation/wiring details must be adhered to.
- 4: Required installation equipment to be ordered together with the fittings.
- 5: Luminaire sample to be requested prior to ordering.
- 6: Luminaire integration requires Mock-up and testing prior to ordering.



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Last information update: November 2018

**Recessed floor-standing Earth D=200 mm - Warm White - Adjustable Spot optic - DALI****Product code**

E142

Technical description

Recessed luminaire applicable to the floor or ground, designed for fitting monochrome white LED sources, for illumination, adjustable optic, with DALI dimmable incorporated electronic control gear. The round frame has a diameter D=200 mm; the body and frame are made of AISI 304 stainless steel with sodium-calcium extra clear glass, thickness 15 mm. Stainless steel body coated with black paint. The luminaire is secured to the outer casing by means of two TORX-type screws that ensure proper anchoring. Inclusive of LED circuit, methacrylate lens and black plastic cover. The luminaire is supplied with an external orientation system (patent pending), without having to open the product, inclusive of double graduated scale: 0-30° with respect to horizontal plane and ±90° with respect to vertical axis. Black plastic (PPS) external box containing the power supply unit. The product is wired using an A2 stainless steel cable gland, with type A07RNF 4x1 mm² outgoing power cord having L=1200 mm. The cable is equipped with an anti-transpiration device (IP68) consisting of a silicone seal placed on the power cable and housed inside the power supply box. The outer casing for installation can be ordered separately from the plastic optical assembly. The assembly made up of the frame, optical assembly and outer casing guarantees 5000 kg resistance to static loads. Maximum glass surface temperature is lower than 40°C.

Installation

The product is secured to the outer casing by means of two TORX-type screws. The luminaire can be installed recessed, floor-standing, using an outer casing or on the ground without outer casing.

Dimension (mm)

Ø200x166

Colour

Steel (13)

Weight (Kg)

3.4

Mounting

Floor recessed|ground recessed

Wiring

Product inclusive of 220-240 VAC DALI dimmable electronic control gear positioned in a separate box from the optical assembly and with outgoing cable.

Notes

IP68 degree of protection on the product and cable when using IP68 connectors * The product is not suitable for installation in swimming pools and fountains. Overvoltage protection: 4KV Common mode, 3,5KV differenzial mode

Complies with EN60598-1 and pertinent regulations



IK10



IP68

Immersione completa per periodi limitati, non idoneo in piscine e fontane.



The lighting fixtures were designed and tested to withstand a static load of up to 50000 N and to resist drive-over stress. The fixtures may not be installed in areas where snowplows are used, or where the drive-over speed exceeds 50 km/h.

Product configuration: E142**Product characteristics**

Total lighting output [Lm]: 798

Total power [W]: 12.1

Luminous efficacy [Lm/W]: 65.9

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]: 798

Emergency luminous flux [Lm]: /

Voltage [V]: -

Life Time: 85,000h - L80 - B10 (Ta 40°C)

Number of optical assemblies: 1

* Preliminary data

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 55

Lamp code: LED

ZVEI Code: LED

Nominal power [W]: 10

Nominal luminous [Lm]: 1450

Lamp maximum intensity [cd]: /

Beam angle [°]: 12°

Number of lamps for optical assembly: 1

Socket: /

Ballast losses [W]: 2.1

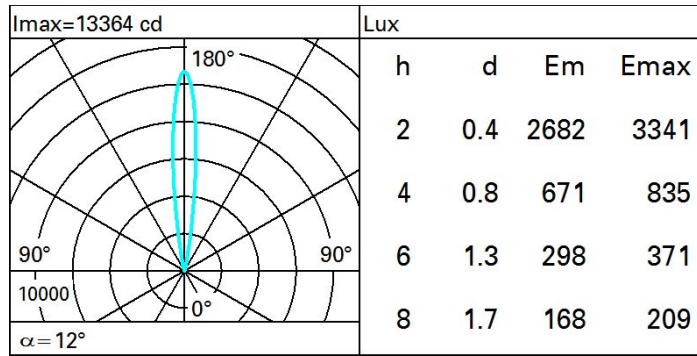
Colour temperature [K]: 3000

CRI: 80

Wavelength [Nm]: /

MacAdam Step: 2

Polar



UGR diagram

Corrected UGR values (at 1450 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceiling	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											
x	y										
2H	2H	-0.5	1.5	-0.2	1.8	2.1	-0.5	1.5	-0.2	1.8	2.1
	3H	-0.6	0.6	-0.2	0.9	1.2	-0.5	0.6	-0.2	0.9	1.3
	4H	-0.6	0.2	-0.3	0.5	0.8	-0.5	0.3	-0.2	0.6	0.9
	6H	-0.6	-0.1	-0.3	0.2	0.5	-0.6	-0.0	-0.2	0.3	0.6
	8H	-0.7	-0.0	-0.3	0.3	0.6	-0.7	0.0	-0.3	0.3	0.7
	12H	-0.8	0.0	-0.4	0.4	0.7	-0.8	0.1	-0.4	0.4	0.8
4H	2H	-0.5	0.3	-0.2	0.6	0.9	-0.6	0.2	-0.3	0.5	0.8
	3H	-0.7	0.1	-0.3	0.4	0.8	-0.7	0.1	-0.3	0.4	0.8
	4H	-1.0	0.3	-0.5	0.7	1.1	-1.0	0.3	-0.5	0.7	1.1
	6H	-1.3	0.5	-0.8	1.0	1.4	-1.3	0.5	-0.8	1.0	1.4
	8H	-1.4	0.5	-0.9	1.0	1.5	-1.4	0.5	-0.9	1.0	1.5
	12H	-1.4	0.4	-0.9	0.9	1.4	-1.5	0.4	-1.0	0.9	1.4
8H	4H	-1.4	0.5	-0.9	1.0	1.5	-1.4	0.5	-0.9	1.0	1.5
	6H	-1.4	0.2	-0.9	0.6	1.2	-1.4	0.2	-0.9	0.6	1.2
	8H	-1.3	-0.2	-0.8	0.3	0.8	-1.3	-0.2	-0.8	0.3	0.8
	12H	-1.2	-0.5	-0.7	-0.0	0.5	-1.2	-0.5	-0.7	-0.0	0.5
12H	4H	-1.5	0.4	-1.0	0.9	1.4	-1.4	0.4	-0.9	0.9	1.4
	6H	-1.3	-0.2	-0.8	0.3	0.8	-1.3	-0.2	-0.8	0.3	0.8
	8H	-1.2	-0.5	-0.7	-0.0	0.5	-1.2	-0.5	-0.7	-0.0	0.5
Variations with the observer position at spacing:											
S =	1.0H	2.6 / -4.1					2.6 / -4.1				
	1.5H	5.0 / -9.9					5.0 / -9.9				
	2.0H	6.9 / -12.4					6.9 / -12.4				

Plastic casing for installation on floors + end cap

Design iGuzzini

iGuzzini

Last information update: October 2018



Plastic casing for installation on floors + end cap

Product code
X203

Technical description
Made of plastic (polypropylene). Inclusive of front cap with system for extracting the cables and double cable entry.

Installation
Floor-standing (concrete)

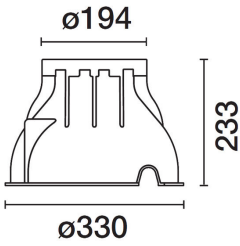
Dimension (mm)
Ø194x238.5

Colour
Black (04)

Weight (Kg)
1.38

Mounting
ground surface|Floor recessed|ground recessed

Complies with EN60598-1 and pertinent regulations



Suction cup

Design iGuzzini

iGuzzini

Last information update: September 2018



Suction cup

Product code
B916

Colour
Indeterminate (00)

Weight (Kg)
0.52

Complies with EN60598-1 and pertinent regulations
