

Project Title:	Kings Cross S3 Building.	Submission no:	BAMSE-TS-E- 053
Contract No:	HLN - 0284.		
To:	A Thelwell S Longhi Brian Patey Genesis Gomez	Company:	BAM Design - For Approval Bennetts – For information Sweco – For information Sweco – For information

Approval of the following equipment is required:

Equipment: Luminaires

Manufacturer: iGuzzini lighting

Description: Type XA

Specification References:

BAMD Particular Specification E1 A4-005

BAMD Luminaire schedule 10 Rev A4 - 006

Attached Detail Documents:

BAM equipment schedule: Luminaire schedule 10 Rev 006

Manufacturers details: As Above

Data sheets: BAMD Specification detail & manufacturers literature for the luminaire, Dali driver, suspension kits where applicable and emergency battery unit info where external from luminaire all appended to this submittal.

Electrical requirements for equipment: na.

Planned site delivery: 2021 As programme

Issued by: BAM Construction Ltd.

A Ambrose

Date

30/06/2021

Please return comments by:

14/07/2021 to achieve construction delivery dates.

To be completed and returned by Consultant Design Engineer

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

Returned by:

Andrew Thelwell

Company:

Bam Design

Signature:



Date:

13-12-2021

KX - Zone S Public Realm
London, UK

Building S3 mounted Public Realm lighting
KXC-S3-001-J-10827B-63-810, Revision 00

Building-mounted streetlight



Description:
Exterior quality IP66, IK09, surface mounted floodlight with comfort reflector for an asymmetrical light distribution.

Utilising 23.8W warm white 3000K CCT LED array with a colour rendering index of Ra 80 and a delivered output of 2280 lumens.

Die cast aluminium construction with lacquered paint finish, RAL colour to Architect's specification. Exterior fixing parts are stainless steel, the front cover is a tempered safety glass with silicon frame. Adjustable tilt (+/- 45°) and 337° rotation with locking mechanism.

To be supplied with integral electronic 1-100% DALI-dimmable LED driver.

Luminaire:
IP Rating: IP66
Optical distribution: Asymmetric A450
Mounting: Surface mounted
Finish: TBC by architect
Circuit/System Wattage(W): 23.8 W
Lumen Output: (lm) 2280 lm
(delivered lumens)
Luminaire Efficacy: (lm/W) 95.8 lm/W
(luminaire lumens/circuit Watt)

Accessories:
Mounting arm extension

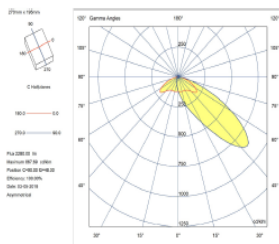
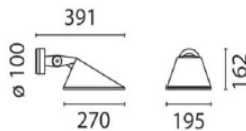
Luminaire Ref. XA

Luminaire Ordering Information:
Manufacturer: iGuzzini
Product: Itaka

Catalogue Number: BV16

Ordering Notes: Finish to be confirmed by architect
To be supplied with accessories listed below.

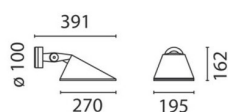
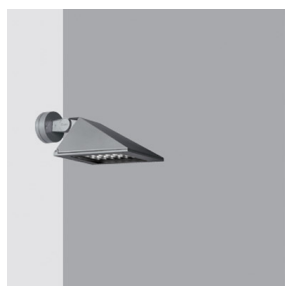
Accessory Ordering Information:
Catalogue Number -



Last information update: February 2021

Product configuration: BV16.S0047

BV16.S0047: Wall-mounted floodlight - Warm White - A45C asymmetrical comfort optic c/w integral DALI driver, 400mm Arm extension, RAL 9007

**Product code**

BV16.S0047: Wall-mounted floodlight - Warm White - A45C asymmetrical comfort optic c/w integral DALI driver, 400mm Arm extension, RAL 9007

Technical description

Outdoor wall-mounted luminaire with high, visual comfort downlight and an asymmetrical, comfort optic (G6), designed for use with LED lamps. The optical assembly and the pole attachment system 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 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. 4 mm thick, transparent, sodium-calcium tempered glass closure, joined to the frame with silicone. The frame is secured to the optical assembly with two AISI 304 stainless steel, captive screws and an AISI 303 stainless steel hinged pin with a 50 Shore silicone gasket between them. The device can be adjusted vertically by +45°/-60° and 337° horizontally with a mechanical locking mechanism for precision aiming. The body and frame include slots for rainwater drainage. The product consists of a die-cast aluminium alloy base fitted with a PG 11, EPDM, double cable gland for pass-through wiring. Patented Optismart optic system, complete with circuit fitted with Warm White monochrome LEDs and silver aluminium reflectors. Replaceable LEDs. Selv electronic control gear. Control gear, connected using quick-couplings and removed using clips. Replaceable control gear. There is no light dispersion into the upper hemisphere above this luminaire when it is in a horizontal position (in compliance with the strictest standards for the prevention of light pollution). All external screws are made of stainless steel. **Special version BV16.S0047 supplied with integral DALI driver and 400mm Arm extension. RAL 9007**

Installation

Device can be mounted on walls (concrete, solid brick and natural stone) using the accessory installation kit (art. 5595)

Colour
RAL 9007**Weight (Kg)**
3.8**Mounting**
wall arm**Wiring**

Luminaire with DALI control gear fixed to the body by means of an aluminium plate and connected to the LED circuit with quick-couplings. Vin 220-240V ac / 50-60 Hz.

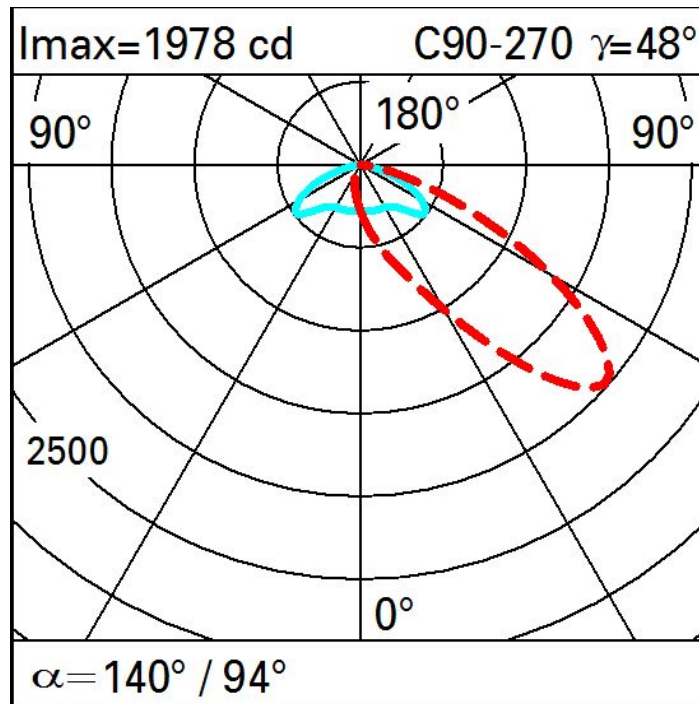
Complies with EN60598-1 and pertinent regulations

**Technical data**

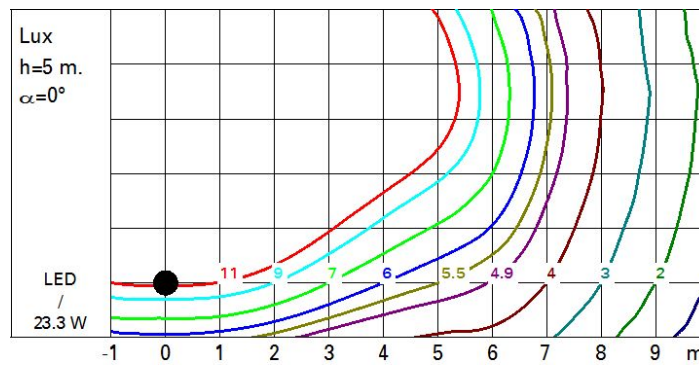
Im system:	2280	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
W system:	23.3	Ballast losses [W]:	Not available
Im source:	-	Lamp code:	LED
W source:	-	Number of lamps for optical assembly:	1
Luminous efficiency (Im/W, 97.9 real value):		ZVEI Code:	LED
Im in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	0	Ambient operating temperature range:	from -20°C to +35°C.
CRI (minimum):	70		
Colour temperature [K]:	3000	Control:	DALI
MacAdam Step:	3		
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)		

NOTE: photometric performances based on standard luminaire. Special luminaire may vary slightly in performance.

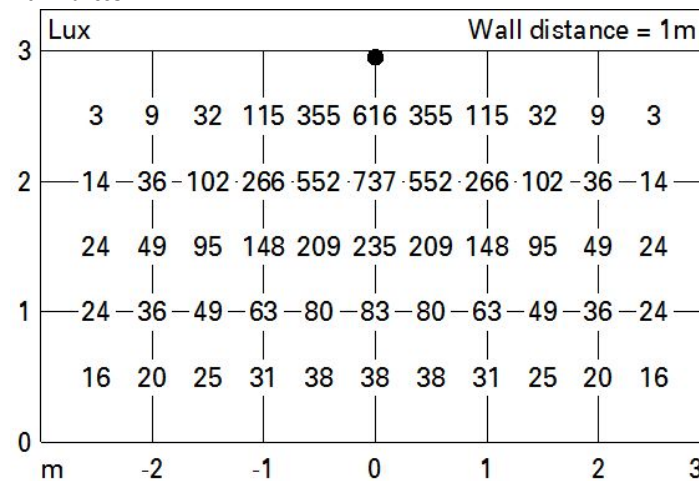
Polar



Isolux



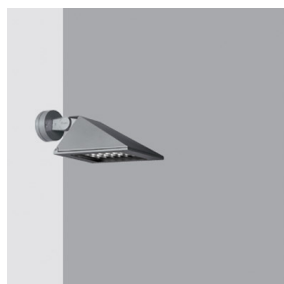
Illuminances



Last information update: February 2021

Product configuration: BV16.S0048

BV16.S0048: Wall-mounted floodlight - Warm White - A45C asymmetrical comfort optic c/w integral DALI driver, 400mm Arm extension, RAL 9007, 3 hour remote DALI-monitored Emergency located in IP65 housing

**Product code**

BV16.S0048: Wall-mounted floodlight - Warm White - A45C asymmetrical comfort optic c/w integral DALI driver, 400mm Arm extension, RAL 9007, 3 hour remote DALI-monitored Emergency located in IP65 housing

Technical description

Outdoor wall-mounted luminaire with high, visual comfort downlight and an asymmetrical, comfort optic (G6), designed for use with LED lamps. The optical assembly and the pole attachment system 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 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. 4 mm thick, transparent, sodium-calcium tempered glass closure, joined to the frame with silicone. The frame is secured to the optical assembly with two AISI 304 stainless steel, captive screws and an AISI 303 stainless steel hinged pin with a 50 Shore silicone gasket between them. The device can be adjusted vertically by +45°/-60° and 337° horizontally with a mechanical locking mechanism for precision aiming. The body and frame include slots for rainwater drainage. The product consists of a die-cast aluminium alloy base fitted with a PG 11, EPDM, double cable gland for pass-through wiring. Patented Optismart optic system, complete with circuit fitted with Warm White monochrome LEDs and silver aluminium reflectors. Replaceable LEDs. Selv electronic control gear. Control gear, connected using quick-couplings and removed using clips. Replaceable control gear. There is no light dispersion into the upper hemisphere above this luminaire when it is in a horizontal position (in compliance with the strictest standards for the prevention of light pollution). All external screws are made of stainless steel. **Special version BV16.S0047 supplied with integral DALI driver and 400mm Arm extension. RAL TBC. 3 hour remote DALI-monitored Emergency located in IP65 housing.**

Installation

Device can be mounted on walls (concrete, solid brick and natural stone) using the accessory installation kit (art. 5595)

Colour

RAL 9007

Weight (Kg)

3.8

Mounting

wall arm

Wiring

Luminaire with DALI control gear fixed to the body by means of an aluminium plate and connected to the LED circuit with quick-couplings. Vin 220-240V ac / 50-60 Hz. **Supplied with 3 hour remote DALI-monitored Emergency located in IP65 housing**

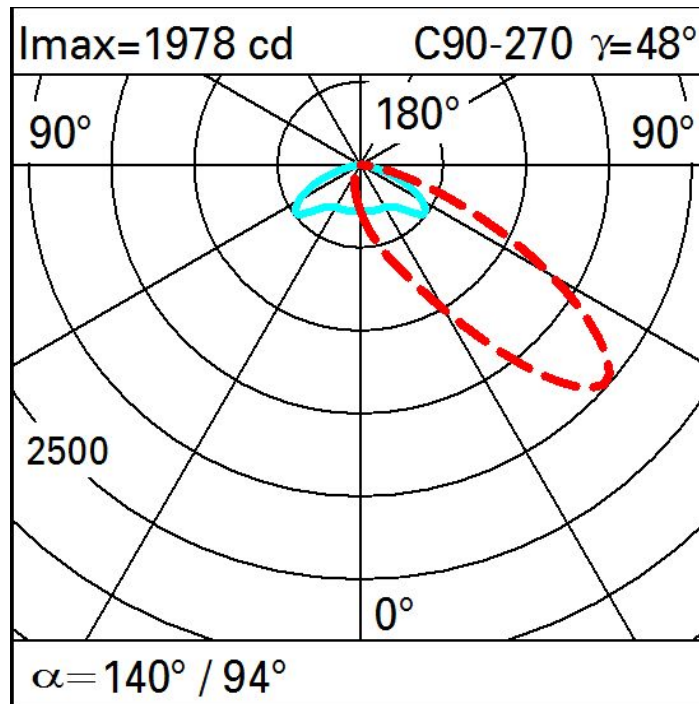
Complies with EN60598-1 and pertinent regulations

**Technical data**

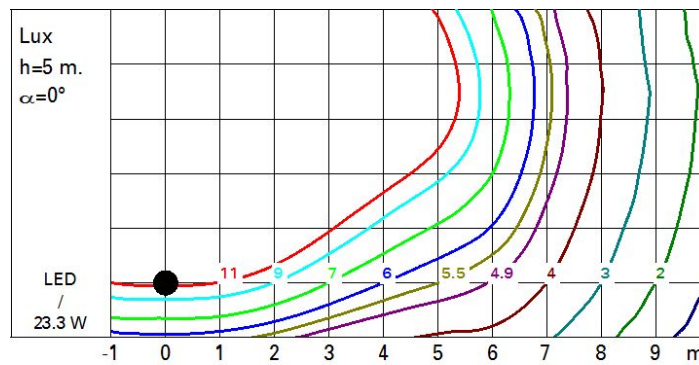
Im system:	2280	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
W system:	23.3	Ballast losses [W]:	Not available
Im source:	-	Lamp code:	LED
W source:	-	Number of lamps for optical assembly:	1
Luminous efficiency (Im/W, 97.9 real value):		ZVEI Code:	LED
Im in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	0	Ambient operating temperature range:	from -20°C to +35°C.
CRI (minimum):	70		
Colour temperature [K]:	3000	Control:	DALI
MacAdam Step:	3		
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)		

NOTE: photometric performances based on standard luminaire. Special luminaire may vary slightly in performance.

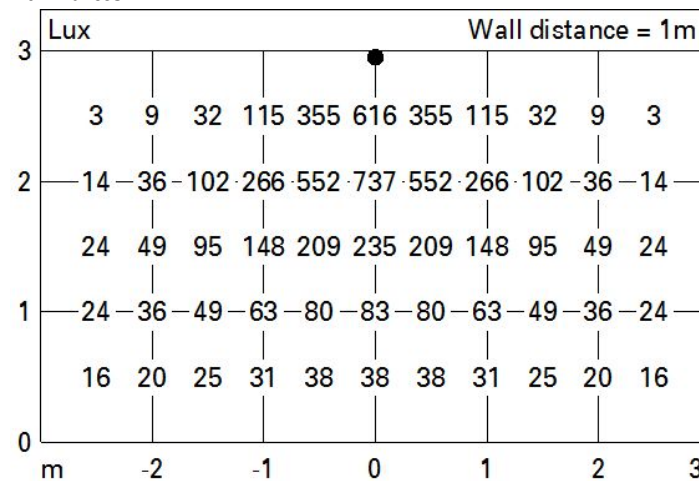
Polar

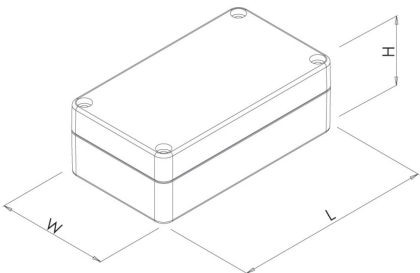
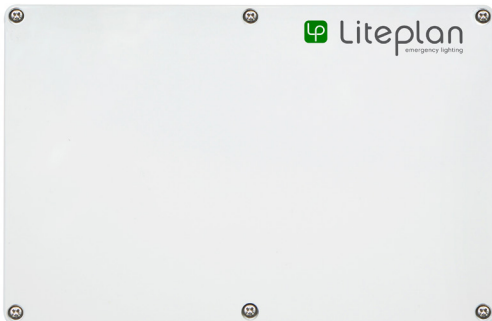


Isolux



Illuminances





L = 222mm W = 146mm H = 55mm

The DNA/1/IP65 is supplied as a remote conversion kit for mounting away from the fitting in damp locations. This kit would be used in applications where space inside the fitting is limited.

- DALI Self-Test Conversion Kit
- Deep discharge protection
- Complete Kit Housed in One Enclosure
- Extra Long Life LiFePO4 Batteries
- Converts LED Loads from 6-80 Volts
- Ingress Protection Rating of IP65
- Moulded in High Grade Polycarbonate

A 3 hour DALI self-test emergency lighting conversion kit which operates with extra long life LiFePO4 batteries. The unit is designed to suit an extremely wide range of LED types and circuits. The DNA/1 automatically adjusts the output LED current to provide the best match between the battery and the load, providing maximum illumination whilst ensuring full battery duration.

Please note that if mounting this kit more that 1m away from the luminaire, Fire Rated cable must be used to connect the pack to the fitting. (BSEN5266-1)

There are 2 versions available -

Order Codes

DNA/1/IP65	For LED loads, operating in voltage range of 6 - 55 Volts
	Unit supplied in single part remote enclosure with cables for simple connection.
DNA/1/80/IP65	For LED loads, operating in voltage range of 15 - 80 Volts
	Unit supplied in single part remote enclosure with cables for simple connection.

Technical Details:

Mains Supply	230-240V AC 50/60 Hz	Max Ta and Tc	Ta - 50 °C - Tc - 70 °C
Power Rating	1.3W 12.5mA λ = 0.44	Max Battery Temperature	55 °C
Duration	3 Hours	Battery Discharge Current	900mA Nominal
Recharge Period	24-Hours	Discharge Voltage Limit (DDP)	3 Volts
Battery Size & Type	3.6V 3.8Ah LiFePO4 Cells	Ingress Protection	IP65
Charge Current	Dual Rate 0-250mA	Mains Input Terminal - Screw	1.0mm ² - 2.5 mm ²
Enclosure Material	Polycarbonate	Dimensions (LxWxH)	222mm x 146mm x 55mm
Kit Weight	1.28Kg	Mains Input Gland Size	16mm