

Technical Submission

Form: Rev: 332-203 1

Project Title	: Ki	Kings Cross S3 Building.			Submission	D.1105 TO 5 050	
Contract No	: HLN - 0284.					no:	BAMSE-TS-E- 053
To: A Thelwell S Longhi Brian Patey Genesis Go				S	BAM Design - For Approval Bennetts – For information Sweco – For information Sweco – For information		
Approval of t	he fol	lowing eq	uipment is r	equired:			
Equipment:	Luminaires						
Manufacturer:	iGuzzi	ni lighting					
Description:	Туре	ΧA					
Specification Ro BAMD Particula BAMD Luminair	r Speci e sche	ification E1 dule 10 Rev					_
Attached Detail Documents:							
BAM equipment schedule:							
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	livery: 2						
Issued by: BAM Construction Ltd. A Ambrose		se	Date		30/06/2021		
Please return coby:	ommen	ts 14/0	7/2021 to ach	ieve constructio	n d	lelivery 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:	S. The well	Date:	13-12-2021		



Technical Submission

Form: Rev: 332-203

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 9000K 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 stariless 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:

Luminaire Ref.

Luminaire Ordering Information: Manufacturer: iGuzzini Product: iTeka

Catalogue Number: BV16

Ordering Notes:

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

XA



Custom-length extension arm is required for mounting to facades - see detail drawing. Exact dimensions to be confirmed by facade consultant and subject to full-scale

Special Requirements:

mock-up.

All wiring, containment, etc. to electrical contractor's drawings, details and specification.

All associated fixings, mounting and bracketry to contractor's drawings, details and specification.

Refer to drawings + documents: Lighting Arrangement drawings • KXC-S3-001-J-10827B-63-201 • KXC-S3-001-J-10827B-63-201

- Lighting Detail drawing

 KXC-S3-001-J-10827B-63-601

Unimarie:

IP Rating:

IP Rating:

IP Bething:

IP Bething:

Asymmetric A450

Mounting:

Surface mounted

TBO by architect

Circuit/System Wattage:(W)

2280 Im

(delivered lumens)
Luminaire Efficacy: (lm/W) 95.8 lm/W

Accessories:

Light Source: Type: Wattage: Colour Temperature: Colour Rendering:

Lamp Lumens: (Im) Efficacy: (Im/W)

Colour Consistency:

Driver/Ballast type: IP Rating:

Maximum Current/Load

DC Power Supply: (if required)

Maximum Current/Load: Size: Weight:

Dimming Range: Control Protocol: Size: (if remote) Weight: (if remote)

IP Rating: Elec. Input: Output Voltage:

Driver/ Ballast:

Rated Life:

Elec. Input:

Mounting arm extension

LED

N/A N/A

Integral

230VAC N/A

N/A 100% - 1% DALI N/A

N/A

N/A N/A

N/A

N/A N/A N/A

Driver + DC Power Supply Notes:
Exact configuration of drivers/ DC power supplies to
manufacturers recommendations.
Maximum distance from driver/DC power supply to luminaire
- Refer to manufacturer for confirmation of exact cable sizes
and run lengths.

N/A

N/A 3000K Ra 80+ Integral LED

100.000hrs (L90B10 for LED)

3 MacAdam ellipse (LED only)

Accessory Ordering Information:

Light Source Ordering Information: Manufacturer Reference 1no.

Driver Ordering Information: Manufacturer: N/A

Catalogue Number:

Max. quantity of luminaires per driver:

Notes: N/A

DC Power Supply Ordering Information: Manufacturer: N/A Catalogue Number: N/A Max. quantity of

luminaires/drivers per DC power supply: Notes:

N/A

Manufacturer/Supplier Information:
Manufacturer/Supplier: j@uzzini
Telephone: +44 01483 468000
Email: info.uk@iguzzini.com info.uk@iguzzini.com Terence Goode Contact: Contact Telephone: ±44 07710 824420 Contact Email:

Lighting Equipment Specification

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Bezel:

Weight

Physical Characteristi Dimensions Cut Out:

Ø100mm

4.5kg

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Design Mario Cucinella

iGuzzini

Last information update: February 2021

Product configuration: BV16.S0047

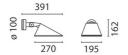
BV16.S0047: Wall-mounted floodlight - Warm White - A45C asymmetrical comfort optic c/w integral DALI driver, 400mm Arm extension, RAL 9007



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

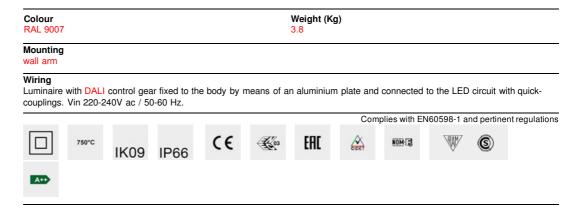
Technical description

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)

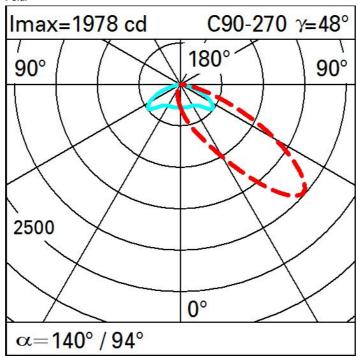


Technical data			
Im system:	2280	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
W system:	23.3	Ballast losses [W]:	Not available
Im source:	-	Lamp code:	LED
W source:	-	Number of lamps for optical	1
Luminous efficiency (Im/W,	97.9	assembly:	
real value):		ZVEI Code:	LED
Im in emergency mode:	-	Number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

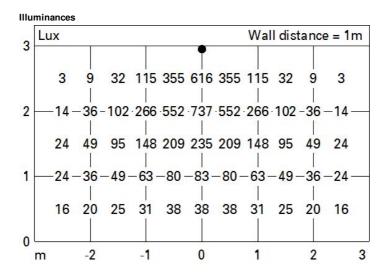
NOTE: photometric performances based on standard luminaire. Special luminaire may vary slightly in performace.



23.3 W



Lux h=5 m. cz=0°



Design Mario Cucinella

iGuzzini

Last information update: February 2021

Product configuration: BV16.S0048

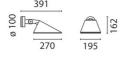
BV16.S0048: Wall-mounted floodlight - Warm White - A45C asymmetrical comfort optic c/w integral DALI driver, 400mm Arm extension, RAL 9007, 3 hour remote DALI-monitored Emergency located in IP65 housing

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 Optismant 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 DALImonitored 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

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

T50°C

IK09 IP66

CE

EHI

T50°C

IK09 IP66

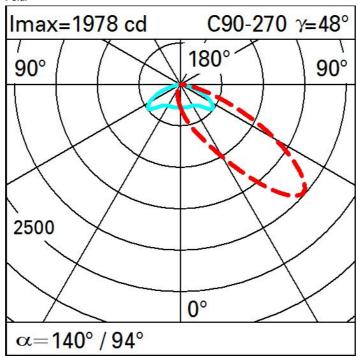
T60°C

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	1
Luminous efficiency (Im/W,	97.9	assembly:	
real value):		ZVEI Code:	LED
Im in emergency mode:	-	Number of optical	1
Total light flux at or above	otal light flux at or above		
an angle of 90° [Lm]:	0	Ambient operating	from -20°C to +35°C.
CRI (minimum):	70	temperature range:	
Colour temperature [K]:	3000	Control:	DALI
MacAdam Step:	3		
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)		
	•		

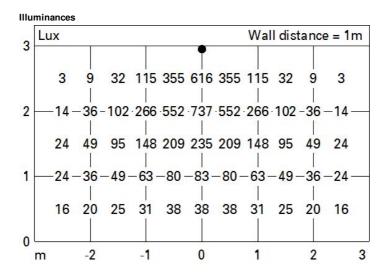
NOTE: photometric performances based on standard luminaire. Special luminaire may vary slightly in performace.



23.3 W



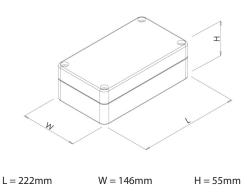
Lux h=5 m. cz=0°



Technical Specification DNA/1/IP65 DALI Self-Test Range







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

There are 2 versions available -

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)

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 $\lambda = 0.44$	Max Battery Temperature	55 ℃
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

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