

Technical Submission

Form: Rev: 332-203

Project Title:	Kings Cros	s S3 Building	j.		Submission		
Contract No:	HLN - 0284	•			no:	BAMSE-TS-E- 056	
То:	A Thelwell S Longhi Brian Patey Genesis Go		Company:	S	BAM Design - I Bennetts – For Sweco – For in Sweco – For in	information formation	
Approval of the	ne following e	quipment is r	equired:				
Equipment:	Luminaires						
Manufacturer:	iGuzzini lighting						
Description:	Type XC						
	Specification E1 e schedule 10 Re						
		Luminaira cah	nedule 10 Rev 00)G			
	oment schedule: ufacturers details:	As Above	iedule 10 Nev 00				
		7.07.00.0					
	Data sheets:	driver, suspens	sion kits where ap	plic		for the luminaire, Dali ncy battery unit info omittal.	
Electrical require							
Issued by: BAM Construction Ltd	A Ambro		Date		30/06/2021		
Please return co by:	mments 14/0	07/2021 to ach	ieve constructio	n d	lelivery dates.		

To be compl	eted and returned by Consul	tant Design Er	ngineer	
Technical subr (**delete as ap	nission is ** <mark>approved</mark> / approved v propriate)	vith comments / r	not approved.	
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

XC Downlighting to building entrance Luminaire Ref. Luminaire: IP Rating: Optical distribution: Mounting: Luminaire Ordering Information: Manufacturer: iGuzzini Description: Exterior quality IP66, IK07, recessed downlight with aluminium reflector for symmetrical flood (46°) light distribution. IP66 46deg iGuzzini iRound Catalogue Number: Finish: Utilising 21.6W warm white 3000K CCT LED module with a colour rendering index of Ra 80 and a delivered output of 1890 lumens. Circuit/System Wattage:(W) 21.6 W Lumen Output: (Im) 1890 Im Finish to be confirmed by architect To be supplied with accessories listed below. Ordering Notes: (delivered lumens) Luminaire Efficacy: (Im/W) 87.6 Im/W (luminaire lumens/circuit Watt) 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 aluminium frame. Accessory Ordering Information: Catalogue Number MW86.65 Diffuser glass filter To be supplied with integral electronic 1-100% DALI-dimmable LED driver. Light Source Ordering Information: Manufacturer: N/A Reference: N/A Light Source: Type: Wattage: Colour Temperature: Colour Rendering: 19W 3000K Ra 80+ Qty. per luminaire: Integral LED 2700 lm Base: ø140 Lamp Lumens: (Im) Efficacy: (Im/W) Rated Life: Colour Consistency: Integral Notes: N/A 100,000 hrs (L80B10 for LED) 300 2 MacAdam ellipse (LED only) Driver/Ballast: Driver/Ballast type: IP Rating: Elec. Input: Output: Driver Ordering Information: Manufacturer: N/A Catalogue Number: N/A Special Requirements: Integral N/A 230VAC N/A $\langle a \rangle$ N/A ø 125 Max. quantity of luminaires per driver: N/A Maximum Current/Load N/A Notes: N/A 100% - 1% Dimming Range: Control Protocol: DALI Size: (if remote) N/A Weight: (if remote) N/A DC Power Supply Ordering Information: Manufacturer: N/A Catalogue Number: N/A Important Notes: DC Power Supply: (if required) All wiring, containment, etc. to electrical contractor's drawings, details and specification. All associated fixings, mounting and bracketry to contactor's drawings, details and specification. IP Rating: N/Á N/A IP Hating: Elec. Input: Output Voltage: Maximum Current/Load: N/A Max. quantity of luminaires/drivers per DC power supply: Size: Weight: Notes: Driver + DC Power Supply Notes: Exact configuration of drivers DC power supplies to manufacturers recommendations. Maximum distance from driver/DC power supply to luminairs. - Refer to manufacturer for confirmation of exact cable sizes and run lengths. Manufacturer/Supplier Information: Manufacturer/Supplier: Guzzini Telephone: +44 01483 48800 Email: info.uk@iguzzini.com Contact: Terence Goode Contact: Telephone: Refer to drawings + documents: Lighting Arrangement drawings • KXC-S3-001-J-10827B-63-101 • KXC-S3-001-J-10827B-63-201

Weight:

info.uk@iguzzini.com Terence Goode +44 07710 824429 Contact Telephone: Contact Email: terence.goode@iguzzini.co.uk

Lighting Equipment Specification

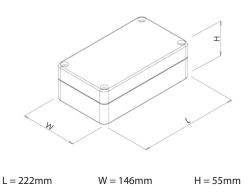
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Technical Specification DNA/1/IP65 DALI Self-Test Range







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

Tel +44 (0)1708 372223 | www.liteplan.com | customerservice@liteplan.com | RM3 0AP. UK

Liteplan reserve the right to change colour, price or specification without prior notice







iRound Preliminary Datasheet

Design Maurizio Varratta

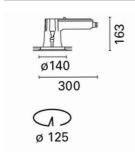
iGuzzini

Last information update: April 2021

Product configuration: 3.BV33.G21.0

3.BV33.G21.0: Ceiling-mounted recessed luminaire with IP66 protection rating, small body with box, Warm White COB Leds, fixed Flood Optic - Dimm. DALI c/w RAL 9007





Product code

3.BV33.G21.0: Ceiling-mounted recessed luminaire with IP66 protection rating, small body with box, Warm White COB Leds, fixed Flood Optic - Dimm. DALI c/w RAL 9007

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 polyamide cable glands, suitable for cables with diameter 8.5+12.5mm. Ceiling-mounting system consists of special A2 stainless steel captive 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. FINISH: RAL 9007

Installation

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

Colour Weight (Kg)
RAL 9007 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..



Technical data					
Im system:	2050	Ballast losses [W]:	2.6		
W system:	21.6	Lamp code:	LED		
Im source:	2700	Number of lamps for optical	1		
W source:	19	assembly:			
Luminous efficiency (Im/W,	94.9	ZVEI Code:	LED		
real value):		Number of optical	1		
Im in emergency mode:	-	assemblies:			
Total light flux at or above an angle of 90° [Lm]:	0	Ambient operating temperature range:	from -20°C to +35°C.		
Light Output Ratio (L.O.R.)	76	Power factor:	See installation instructions		
[%]:		Inrush current:	5 A / 50 μs		
Beam angle [°]:	38°	Maximum number of	B10A: 31 luminaires		
CRI (minimum):	80	luminaires of this type per	B16A: 50 luminaires		
Colour temperature [K]:	3000	miniature circuit breaker:	C10A: 52 luminaires		
MacAdam Step:	2		C16A: 85 luminaires		
Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)	Minimum dimming %:	1		
Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)	Overvoltage protection:	4kV Common mode & 3kV Differential mode		
		Dimming mode:	CCR		
		Control:	DALI		

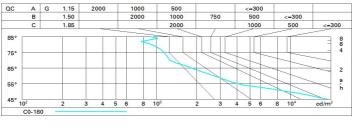
Polar

Imax=3897 cd	CIE	Lux			
90° 180° 90°	nL 0.76 97-100-100-100-76	h	d	Em	Emax
	UGR 18.6-18.6 DIN A.61 UTE	4	2.8	189	244
	0.76A+0.00T F"1=969	8	5.5	47	61
4000	F"1+F"2=997 F"1+F"2+F"3=1000 CIBSE	12	8.3	21	27
α=38°	LG3 L<3000 cd/m² at 65° UGR<19 L<3000 cd/mq @	₆₅ 16	11	12	15

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

Rifle	ct.:										
ce il/c	av	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls work pl.		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Roon	n dim			viewed					viewed		
X	У	crosswise					endwise				
2H	2H	19.1	19.8	19.4	20.0	20.3	19.1	19.8	19.4	20.0	20.3
	ЗН	19.0	19.6	19.3	19.9	20.1	19.0	19.6	19.3	19.9	20.
	4H	18.9	19.5	19.3	19.8	20.1	18.9	19.5	19.3	19.8	20.
	бН	18.9	19.4	19.2	19.7	20.0	18.8	19.4	19.2	19.7	20.0
	H8	18.8	19.3	19.2	19.6	20.0	18.8	19.3	19.2	19.6	20.
	12H	18.8	19.2	19.2	19.6	19.9	18.8	19.2	19.2	19.6	19.
4H	2H	18.9	19.5	19.3	19.8	20.1	18.9	19.5	19.3	19.8	20.
	ЗН	18.8	19.3	19.2	19.6	19.9	18.8	19.3	19.2	19.6	19.
	4H	18.7	19.1	19.1	19.5	19.9	18.7	19.1	19.1	19.5	19.
	бН	18.6	19.0	19.0	19.4	19.8	18.6	19.0	19.0	19.4	19.
	8H	18.6	18.9	19.0	19.3	19.8	18.6	18.9	19.0	19.3	19.
	12H	18.5	18.8	19.0	19.3	19.7	18.5	18.8	19.0	19.2	19.
вн	4H	18.6	18.9	19.0	19.3	19.7	18.6	18.9	19.0	19.3	19.8
	бН	18.5	18.8	19.0	19.2	19.7	18.5	18.8	19.0	19.2	19.
	нв	18.4	18.7	18.9	19.1	19.6	18.4	18.7	18.9	19.1	19.0
	12H	18.4	18.6	18.9	19.1	19.6	18.4	18.6	18.9	19.1	19.
12H	4H	18.5	18.8	19.0	19.2	19.7	18.5	18.8	19.0	19.3	19.
	бН	18.4	18.7	18.9	19.1	19.6	18.4	18.7	18.9	19.1	19.
	H8	18.4	18.6	18.9	19.1	19.6	18.4	18.6	18.9	19.1	19.0
Varia	tions wi	th the ob	serverp	osition	at spacin	g:					
5 =	1.0H		5.	2 / -12	.6			5.	2 / -12	.6	
	1.5H		8.	0 / -14	.5			8.	0 / -14	.5	
	2.0H		10	.0 / -1	5.7			10	.0 / -15	5.7	

Diffuser Filter

Design iGuzzini

Last information update: December 2020

iGuzzini



Accessory code MW86: Diffuser Filter

Technical description
Coloured filters

Colour Nitric (65) Weight (Kg) 0.06

Notes
For iRoll 65 large body luminaires

Complies with EN60598-1 and pertinent regulations

iRound Preliminary Datasheet

Design Maurizio Varratta

163

ø 125

Last information update: April 2021

iGuzzini

Product configuration: BV33.S0042

BV33.S0042: Čeiling-mounted recessed luminaire with IP66 protection rating, small body with box, Warm White COB Leds, fixed Flood Optic - Dimm. DALI c/w RAL 9007 c/w 3 hour remote DALI-monitored emergency located in IP65 housing

Product code

BV33.S0042: Ceiling-mounted recessed luminaire with IP66 protection rating, small body with box, Warm White COB Leds, fixed Flood Optic - Dimm. DALI c/w RAL TBC c/w 3 hour remote DALI-monitored emergency located in IP65 housing

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 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. FINISH: RAL 9007 - Supplied with 3 hour remote DALI-monitored emergency located in IP65 housing



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

 Colour
 Weight (Kg)

 RAL 9007
 1.3

Mounting

ceiling recessed

Wiring

Control gear complete with dimmable DALI electronic ballast (220÷240Vac 50/60Hz). Supplied with 3 hour remote DALI-monitored emergency located in IP65 housing

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.



Technical data			
Im system:	2050	Ballast losses [W]:	2.6
W system:	21.6	Lamp code:	LED
Im source:	2700	Number of lamps for optical	1
W source:	19	assembly:	
Luminous efficiency (Im/W,	94.9	ZVEI Code:	LED
real value):		Number of optical	1
Im in emergency mode:	-	assemblies:	
Total light flux at or above an angle of 90° [Lm]:	0	Ambient operating temperature range:	from -20°C to +35°C.
Light Output Ratio (L.O.R.)	76	Power factor:	See installation instructions
[%]:		Inrush current:	5 A / 50 μs
Beam angle [°]:	38°	Maximum number of	B10A: 31 luminaires
CRI (minimum):	80	luminaires of this type per	B16A: 50 luminaires
Colour temperature [K]:	3000	miniature circuit breaker:	C10A: 52 luminaires
MacAdam Step:	2		C16A: 85 luminaires
Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)	Minimum dimming %:	1
Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)	Overvoltage protection:	4kV Common mode & 3kV Differential mode
		Dimming mode:	CCR
		Control:	DALI

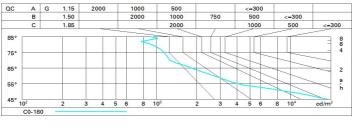
Polar

Imax=3897 cd	CIE	Lux			
90° 180° 90°	nL 0.76 97-100-100-100-76	h	d	Em	Emax
	UGR 18.6-18.6 DIN A.61 UTE	4	2.8	189	244
	0.76A+0.00T F"1=969	8	5.5	47	61
4000	F"1+F"2=997 F"1+F"2+F"3=1000 CIBSE	12	8.3	21	27
α=38°	LG3 L<3000 cd/m² at 65° UGR<19 L<3000 cd/mq @	₆₅ 16	11	12	15

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
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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

Rifle	ct.:										
ce il/c	av	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls work pl.		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Roon	n dim			viewed					viewed		
X	У	crosswise					endwise				
2H	2H	19.1	19.8	19.4	20.0	20.3	19.1	19.8	19.4	20.0	20.3
	ЗН	19.0	19.6	19.3	19.9	20.1	19.0	19.6	19.3	19.9	20.
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	бН	18.9	19.4	19.2	19.7	20.0	18.8	19.4	19.2	19.7	20.0
	H8	18.8	19.3	19.2	19.6	20.0	18.8	19.3	19.2	19.6	20.
	12H	18.8	19.2	19.2	19.6	19.9	18.8	19.2	19.2	19.6	19.
4H	2H	18.9	19.5	19.3	19.8	20.1	18.9	19.5	19.3	19.8	20.
	ЗН	18.8	19.3	19.2	19.6	19.9	18.8	19.3	19.2	19.6	19.
	4H	18.7	19.1	19.1	19.5	19.9	18.7	19.1	19.1	19.5	19.
	бН	18.6	19.0	19.0	19.4	19.8	18.6	19.0	19.0	19.4	19.
	8H	18.6	18.9	19.0	19.3	19.8	18.6	18.9	19.0	19.3	19.
	12H	18.5	18.8	19.0	19.3	19.7	18.5	18.8	19.0	19.2	19.
вн	4H	18.6	18.9	19.0	19.3	19.7	18.6	18.9	19.0	19.3	19.8
	бН	18.5	18.8	19.0	19.2	19.7	18.5	18.8	19.0	19.2	19.
	нв	18.4	18.7	18.9	19.1	19.6	18.4	18.7	18.9	19.1	19.0
	12H	18.4	18.6	18.9	19.1	19.6	18.4	18.6	18.9	19.1	19.
12H	4H	18.5	18.8	19.0	19.2	19.7	18.5	18.8	19.0	19.3	19.
	бН	18.4	18.7	18.9	19.1	19.6	18.4	18.7	18.9	19.1	19.
	H8	18.4	18.6	18.9	19.1	19.6	18.4	18.6	18.9	19.1	19.0
Varia	tions wi	th the ob	serverp	osition	at spacin	g:					
5 =	1.0H		5.	2 / -12	.6			5.	2 / -12	.6	
	1.5H		8.	0 / -14	.5			8.	0 / -14	.5	
	2.0H		10	.0 / -1	5.7			10	.0 / -15	5.7	