

**FOR
PLANNING**

Google **KGX1**

KGX1 External Lighting Schedule

KXC-A-001-J-BDP-63-SH002

Revision: C01

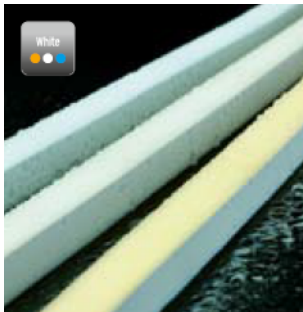
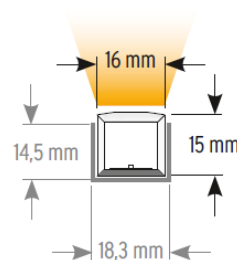
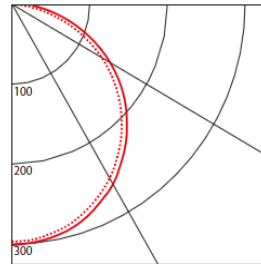

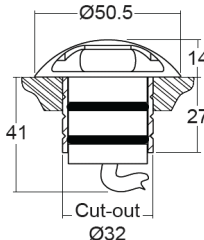
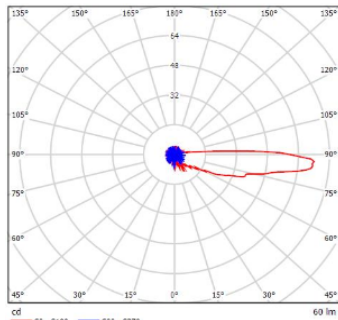


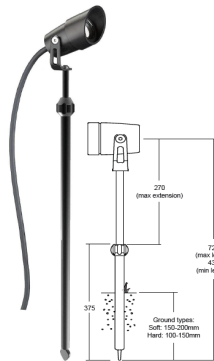
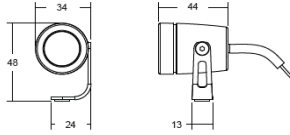
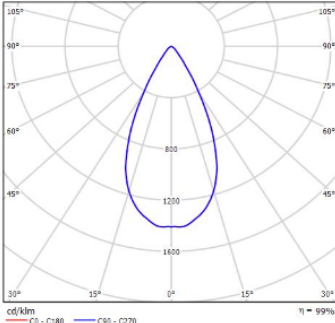

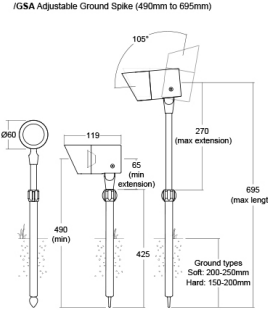
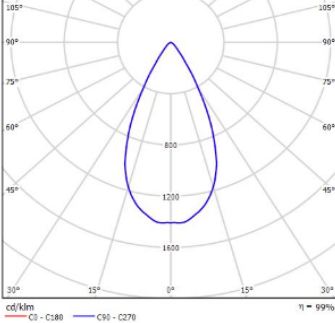
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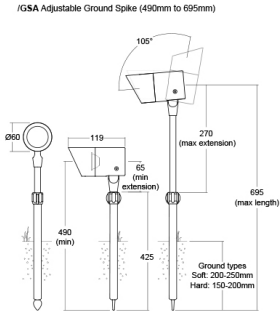
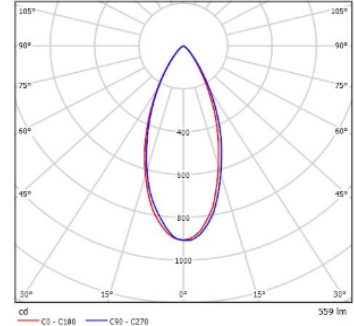
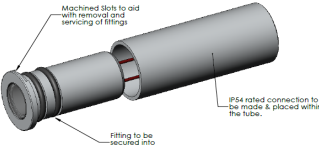
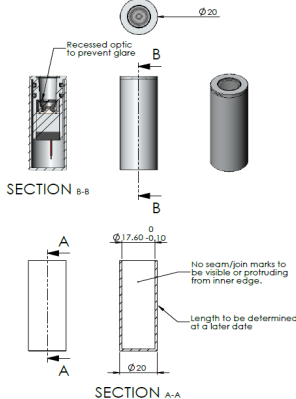
8th November 2019

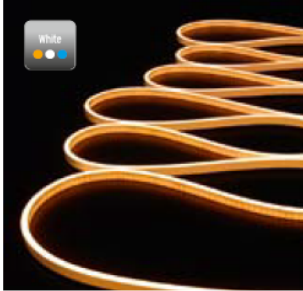
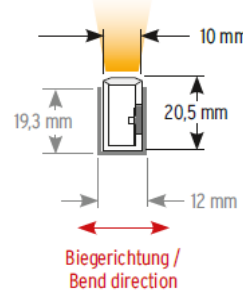
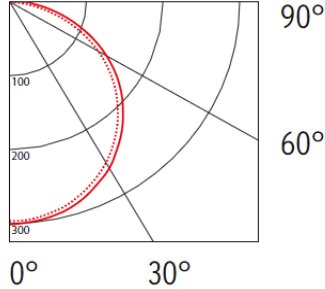

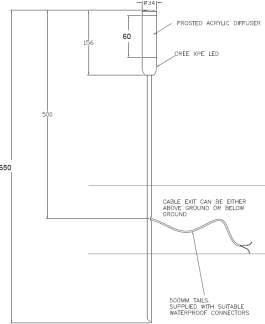
BDP.

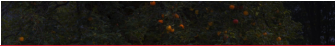

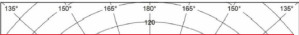
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29/09/17	T01	For Tender	Stage 4 Tender Issue	RM	MR
09/03/18	T02	For Tender	Tender Update	LSW	MR
08/11/19	C01	For Construction	Updated as Indicated - CRF 1111	LSW	MR


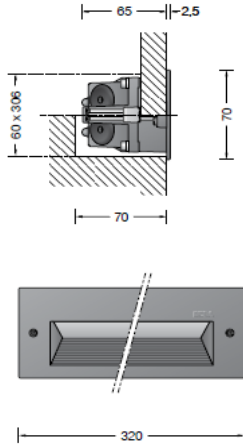
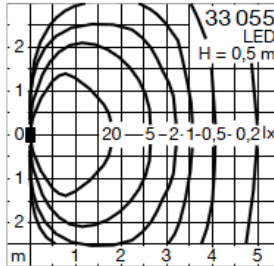

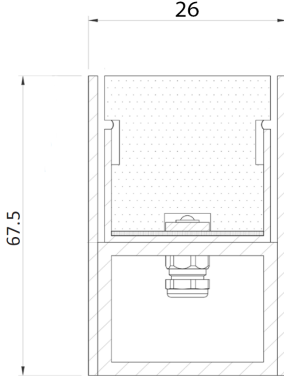
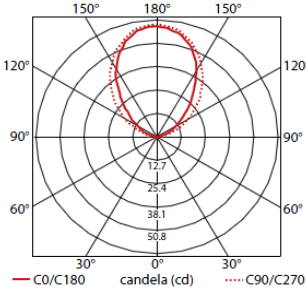
LUMINAIRES WITH THEIR REFERENCE UNDERLINED AND HIGHLIGHTED YELLOW HAVE BEEN ADDED OR MODIFIED IN THIS REVISION										
LOCATION AND COMMENT	Ref.		Image	Dimensions	General Information	Description	Manufacturer & Contact	Product range & Catalogue No.	Light Source	Photometry
ROOF LANDSCAPE										
Diagonal Stair and Façade Garden Handrail	BG	3			Length (mm): varies Width (mm): 18.3 Height (mm): 15 Diameter (mm): Finish: OPAL IP rating: IP67 IK rating: -	Surface mounted opal encapsulated diffused linear luminaire integrated with diagonal stair handrail detail To be supplied with dimmable electronic control gear. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver. DALI DIMMING	Led Linear (via Architainment Lighting Ltd) Hector Machado email: Hector.Machado@architainment.co.uk contact no. 07930203203 Alternative Manufacturers: Tryka Osram	Product range: Vario Led Phobos white TV Catalogue No. TBC	LOR (%): Luminaire lumens: 630lm/m Luminaire Power (Circuit W): 10W/m "Efficacy Luminaire lm/circuit W (LL/cW): 83lm/W CCT: 3000K Ra: >80	
Fitness tracks	BX	1			Diameter (mm): 50.5 Height (mm): 55 Recess depth (mm): 41 Cut-out Diameter (mm): 32 Finish: Stainless steel IP rating: IP67 Weight (kg): TBC	Miniature inground marker light with 120° beam angle to illuminate pathways Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver. Warm white (3000k) light emission.	Manufacturer: Light Graphix Contact: Rob Buxton Tel: 01322527629 Email: robert@lightgraphix.biz Alternative Manufacturers: Simes We-ef Ares	Product range: LD64 Part no: LD64-500/LW27/Stainless steel/480/optimised optic	Cree XPG2 LED Colour rendering index: >Ra93 Colour temperature: 3000K Nominal luminaire power consumption: 1.7W@500mA Luminaire lumens ≈ 60lm (35lm/C.W)	


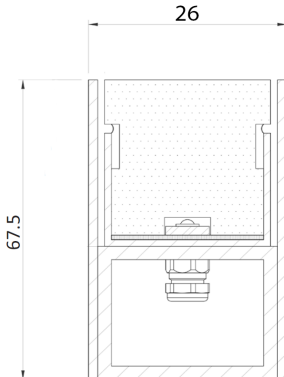
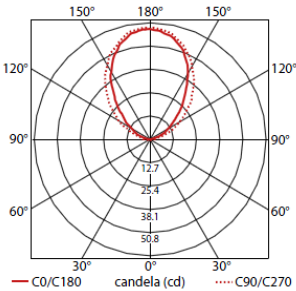

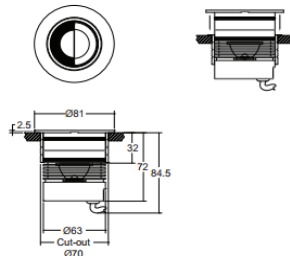
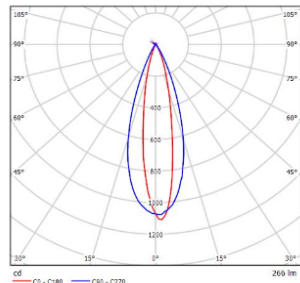
LUMINAIRES WITH THEIR REFERENCE UNDERLINED AND HIGHLIGHTED YELLOW HAVE BEEN ADDED OR MODIFIED IN THIS REVISION										
LOCATION AND COMMENT	Ref.		Image	Dimensions	General Information	Description	Manufacturer & Contact	Product range & Catalogue No.	Light Source	Photometry
Plateau/ Fields/ Gardens: Biodiverse areas	BX	2			Diameter (mm): 34 Height (mm): 48 Recess depth (mm): NA Cut-out Diameter (mm): NA Finish: Black IP rating: IP67 Weight (kg): TBC	Ground spike-mounted projector with glare cowl and adjustable stem to accentuate trees and planting. Optics fitted with wide flood beam angle. Anodised aluminium body with stainless steel fixing bracket. Lockable tilt mechanism. To be supplied with DALI dimmable electronic control gear. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver Very warm white (2700k) light emission.	Manufacturer: Light Graphix Contact: Rob Buxton Tel: 01322527629 Email: robert@lightgraphix.biz Alternative Manufacturers: ACDC/Zumtobel Mike Stoane Ares	Product range: LD51 Part no: LD51-700/LW27/WB/GSA/C O /custom serrated accessory on spike to reinforce pull-out resistance	Cree XPG2 LED Colour rendering index: >Ra93 Colour temperature: 2700K Nominal luminaire power consumption: 2.4W@700mA Luminaire lumens: ≈ 174lm (73lm/C.W)	
Plateau/ Fields/ Gardens: Biodiverse areas	BX	3			Diameter (mm): 60 Height (mm): 119 Recess depth (mm): NA Cut-out Diameter (mm): NA Finish: Black IP rating: IP67 Weight (kg): TBC	Ground spike-mounted projector with glare cowl and adjustable stem to accentuate trees and planting. Optics fitted with wide flood beam angle. Anodised aluminium body with stainless steel fixing bracket. Lockable tilt mechanism. To be supplied with DALI dimmable electronic control gear. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver. Very warm white (2700k) light emission.	Manufacturer: Light Graphix Contact: Rob Buxton Tel: 01322527629 Email: robert@lightgraphix.biz Alternative Manufacturers: ACDC/Zumtobel Mike Stoane Ares	Product range: LD10238 Part no: LD10238-700/LW27/WB/GSA/ custom serrated accessory on spike to reinforce pull-out resistance	Cree MKR 4 LED Colour rendering index: >Ra85 Colour temperature: 2700K Nominal luminaire power consumption: 10W@700mA Luminaire lumens: ≈ 584lm (65lm/C.W)	


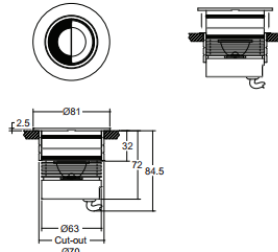
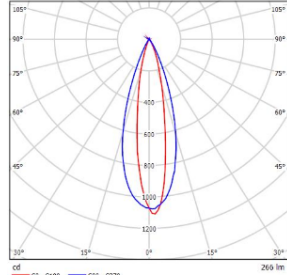
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LOCATION AND COMMENT	Ref.		Image	Dimensions	General Information	Description	Manufacturer & Contact	Product range & Catalogue No.	Light Source	Photometry
Plateau/ Fields/ Gardens: Biodiverse areas	BX	3a			Diameter (mm): 60 Height (mm): 119 Recess depth (mm): NA Cut-out Diameter (mm): NA Finish: Black IP rating: IP67 Weight (kg): TBC	Ground spike-mounted projector with glare cowl and adjustable stem to accentuate trees and planting. Optics fitted with narrow spot beam angle. Anodised aluminium body with stainless steel fixing bracket. Lockable tilt mechanism. To be supplied with DALI dimmable electronic control gear. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver. Very warm white (2700k) light emission.	Manufacturer: Light Graphix Contact: Rob Buxton Tel: 01322527629 Email: robert@lightgraphix.biz Alternative Manufacturers: ACDC/Zumtobel Mike Stoane Ares	Product range: LD10238 Part no: LD10238-700/LW27/NB/GSA/ custom serrated accessory on spike to reinforce pull-out resistance	Cree MKR 4 LED Colour rendering index: >Ra85 Colour temperature: 2700K Nominal luminaire power consumption: 10W@700mA Luminaire lumens: ≈ 584lm (65lm/C.W)	
Balustrade and handrails	BX	4a			Diameter (mm): 20 Height (mm): 30 Recess depth (mm): TBC Cut-out Diameter (mm): N/A Finish: Anodised aluminium IP rating: IP54 Weight (kg): TBC	Miniature downlight with asymmetric wide beam angle optics integrated into handrail detail via o-rings. Handrail manufacturer to produce tubular housing as per lighting manufacturer recommendations. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver. Warm white (3000k) light emission.	Manufacturer: Light Graphix Contact: Rob Buxton Tel: 01322527629 Email: robert@lightgraphix.biz www.lightgraphix.co.uk	Product range: T20393 -TBC Part no: TBC (asymmetric wide beam optics)	Cree XPG2 LED Colour rendering index: >Ra80 Colour temperature: 3000K Nominal luminaire power consumption: 1.2W Luminaire lumens: ≈ 90lm (75lm/C.W)	


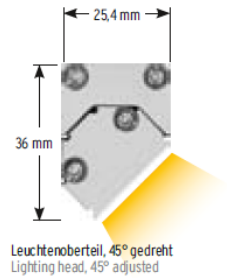
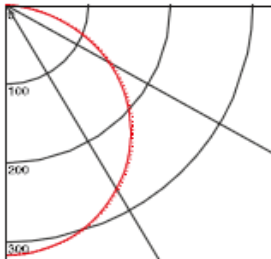

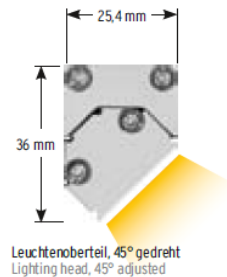
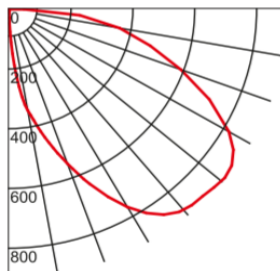
LUMINAIRES WITH THEIR REFERENCE UNDERLINED AND HIGHLIGHTED YELLOW HAVE BEEN ADDED OR MODIFIED IN THIS REVISION										
LOCATION AND COMMENT	Ref.		Image	Dimensions	General Information	Description	Manufacturer & Contact	Product range & Catalogue No.	Light Source	Photometry
Benches	BX	5			Width (mm): 12 Height (mm): 20.5 Length (mm): varies Max bending radius: 150mm Finish: TBC IP rating: IP67 Weight (kg): TBC	Silicon encapsulated flexible LED tape recessed into routed chanel unde landscape benches. Tape fixed with snap in clips. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver. Very warm white (2700k) light emission.	Manufacturer: LED Linear (via Architainment Lighting Ltd) Contact: Hector Machado Tel: 07930203203 Email: Hector.Machado@ar chitainment.co.uk Alternative Manufacturers: Tryka Osram	Product range: VarioLED Flex Phobos SV IP67 W825 Part no: TBC	LED Colour rendering index: >95 Colour temperature: 2700K Nominal luminaire power consumption: 10W/m Luminaire lumens: 370lm/m (37lm/C.W)	
Fields/ Gardens stepped areas	BX	6			Height (mm): 650 Diffuser height (mm): 60 (custom) Diameter (mm): 34 Finish: Black powder coated stem and anodised aluminium cap. IP rating: IP66 Weight (kg): TBC	Miniature bollard with solid acrylic diffuser and 35° beam angle for feature lighting to stepped planting areas. To be supplied with dimmable electronic control gear. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver. Very warm white (2700k) light emission.	Manufacturer: Mike Stoane Lighting Contact: Ruairidh McGlynn Tel: 0131 440 1313 Email: Ruairidh@mikestoan elighting.com Alternative Manufacturers: Viabizzuno Lightgraphix	Product range: Bulrush (with mounting plate for more secure spike mounting) Part no: TBC	LED Colour rendering index: >95 Colour temperature: 2700K Nominal luminaire power consumption: 1W @ 350mA Luminaire lumens: 40lm (40lm/C.W)	


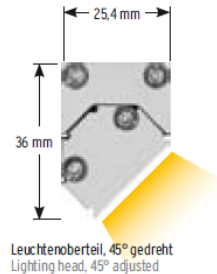
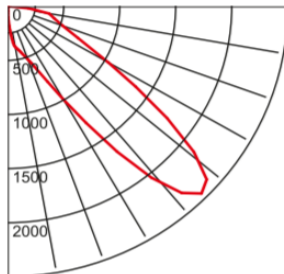

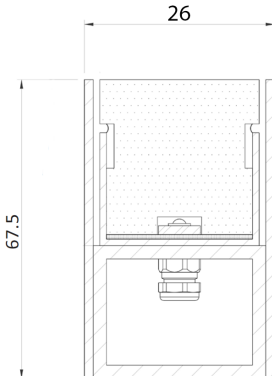
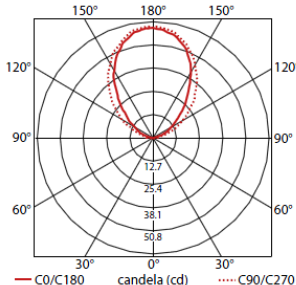
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LOCATION AND COMMENT	Ref.		Image	Dimensions	General Information	Description	Manufacturer & Contact	Product range & Catalogue No.	Light Source	Photometry
Plateau planting	BX	7			Diameter (mm): 280 Height (mm): NA Recess depth (mm): NA	Decorative diffused spike mounted floor luminaire Contractor must ensure that the luminaire and driver	Manufacturer: Linealight	Product range: Oh!_FL65	LED Colour rendering	
Plateau planting	BX	8	<div>These three luminaires have been omitted under CRF 641</div>							
Plateau planting	BX	9								
							Manufacturers: Modular Deltalight			


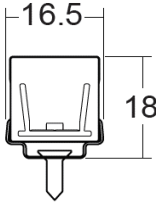
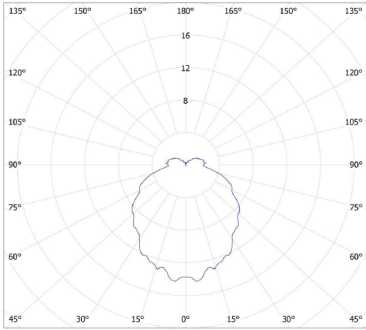
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LOCATION AND COMMENT	Ref.		Image	Dimensions	General Information	Description	Manufacturer & Contact	Product range & Catalogue No.	Light Source	Photometry
Roof Anchor Cafes Entrances	BX	10			Width (mm): 65 Height (mm): 70 Length (mm): 320 Recess depth (mm): 70 Cut-out Diameter (mm): NA Finish: To match Corten IP rating: IP65 Weight (kg): TBC	Recessed wall luminaires with asymmetrical beam angle to external cladding at anchor cafes entrances for pathway illumination To be supplied with DALI dimmable electronic control gear. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Warm white (3000k) light emission.	Manufacturer: Bega (via Fagerhult) Contact: Graham Taylor Tel: 07968 607726 Email: Graham.Taylor@fagerhult.co.uk Alternative Manufacturers: We-ef Simes	Product range: 33055 Part no: 33055 - TBC	LED Colour rendering index: >90 Colour temperature: 3000K Nominal luminaire power consumption: 11W Luminaire lumens: 480lm (43lm/C.W)	
Headland	BX	11			Width (mm): 26 Height (mm): 67.5 Length (mm): varies, max. 1500mm Recess depth (mm): Additional box section to sui to suit build up Cut-out Diameter (mm): NA Finish: Stainless steel IP rating: IP67 Weight (kg): TBC	Recessed linear diffused light line flush integrated with timber paving at Headland areas. To be supplied and installed by Light Lab To be supplied with DALI dimmable electronic control gear. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver. Griplock bonded to box section spacer and roof insulation layer. Remote 24v power supply required with IP68 connections. (2700K) light emission.	Manufacturer: Lightlab Contact: Phil Riley Tel: 020 7278 2678. Email: phil@thelightlab.co.uk Alternative Manufacturers: LED Linear KKDC	Product range: Glow Line Ingorund Part no: TBC	LED Colour rendering index: >85+ Colour temperature: (appearance 2500K) Nominal luminaire power consumption: 14W/m Luminaire lumens: 313lm/m (11lm/C.W) Macadam >3	

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LOCATION AND COMMENT	Ref.		Image	Dimensions	General Information	Description	Manufacturer & Contact	Product range & Catalogue No.	Light Source	Photometry
Headland	BX	11a			Width (mm): 26 Height (mm): 67.5 Length (mm): varies, max. 1500mm Recess depth (mm): Additional box section to sui to suit build up Cut-out Diameter (mm): NA Finish: Stainless steel IP rating: IP67 Weight (kg): TBC	Recessed linear diffused light line flush integrated with timber paving at Headland areas. To be supplied and installed by Light Lab To be supplied with DALI dimmable electronic control gear. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver. Griplock bonded to box section spacer and roof insulation layer. Remote 24v power supply required with IP68 connections. (2700K) light emission.	Manufacturer: Lightlab Contact: Phil Riley Tel: 020 7278 2678. Email: phil@thelightlab.co.uk Alternative Manufacturers: LED Linear KKDC	Product range: Glow Line Ingorund Part no: TBC	LED Colour rendering index: >85+ Colour temperature: (appearance 2500K) Nominal luminaire power consumption: 14W/m Luminaire lumens: 313lm/m (11lm/C.W) Macadam >3	
ROOFTOP EXTERNAL TRAYS										
Below Canopies	BX	12			Diameter (mm): 81 Height (mm): 84.5 Recess depth (mm): 84.5 Cut-out Diameter (mm): 70 Finish: Anodised aluminium IP rating: IP67 Weight (kg): TBC	Inground recessed uplight to illuminate rooftop canopies. Fixture fitted with 15°x30° oval beam distribution. To be supplied with DALI dimmable electronic control gear. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver. Warm white (3000k) light emission.	Manufacturer: Light Graphix Contact: Rob Buxton Tel: 01322527629 Email: robert@lightgraphix.biz Alternative Manufacturers: Ares Iguzzini	Product range: LD151 Part no: LD151-500/LW27/NB/ custom antiglare accessory -- To be further developed at stage 5 via mockup	Cree MKR 4 die LED Colour rendering index: >Ra85 Colour temperature: 3000K Nominal luminaire power consumption: 7W@500mA Luminaire lumens: ≈ 416lm (59lm/C.W)	

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LOCATION AND COMMENT	Ref.		Image	Dimensions	General Information	Description	Manufacturer & Contact	Product range & Catalogue No.	Light Source	Photometry
Below Canopies	BX	12a			Diameter (mm): 81 Height (mm): 84.5 Recess depth (mm): 84.5 Cut-out Diameter (mm): 70 Finish: Anodised aluminium IP rating: IP67 Weight (kg): TBC	Inground recessed uplight to illuminate rooftop canopies. Fixture fitted with 15°x30° oval beam distribution and 5° tilt angle. To be supplied with DALI dimmable electronic control gear. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver. Warm white (3000k) light emission.	Manufacturer: Light Graphix Contact: Rob Buxton Tel: 01322527629 Email: robert@lightgraphix.biz Alternative Manufacturers: Ares Iguzzini	Product range: LD151 Part no: LD151-500/LW27/NB/ custom antiglare accessory specific to stair location and 5° tilt angle - To be further developed at stage 5 via mockup	Cree MKR 4 die LED Colour rendering index: >Ra85 Colour temperature: 3000K Nominal luminaire power consumption: 7W@500mA Luminaire lumens: ≈ 416lm (59lm/C.W)	

LUMINAIRES WITH THEIR REFERENCE UNDERLINED AND HIGHLIGHTED YELLOW HAVE BEEN ADDED OR MODIFIED IN THIS REVISION										
LOCATION AND COMMENT	Ref.		Image	Dimensions	General Information	Description	Manufacturer & Contact	Product range & Catalogue No.	Light Source	Photometry
GROUND PLANE										
Retail Units	BX	13			Width (mm): 25.4 Height (mm): 36 Length (mm): varies Finish: Anodised aluminium IP rating: IP67 Weight (kg): TBC	Surface mounted linear luminaire with opal diffuser to uplight retail unit canopies. To be supplied with DALI dimmable electronic control gear. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver. Warm white (3000k) light emission - Final CCT to be reviewed at tender stage to match BX14.	Manufacturer: LED Linear (via Architainment Lighting Ltd) Contact: Hector Machado Tel: 07930203203 Email: Hector.Machado@architainment.co.uk Alternative Manufacturers: Lightgraphix Tryka	Product range: XOOLUM IP67 Opal (with adjustable bracket) Part no: TBC	LED Colour rendering index: >Ra85 Colour temperature: 3000K Nominal luminaire power consumption: 25W/m Luminaire lumens: ≈ 1010lm/m (53lm/C.W)	
Retail Units	BX	13a			Width (mm): 25.4 Height (mm): 36 Length (mm): varies Finish: Anodised aluminium IP rating: IP67 Weight (kg): TBC	Surface mounted linear luminaire with 65° optics and clear cover to uplight retail unit canopies. To be supplied with DALI dimmable electronic control gear. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver. Warm white (3000k) light emission - Final CCT to be reviewed at tender stage to match BX14.	Manufacturer: LED Linear (via Architainment Lighting Ltd) Contact: Hector Machado Tel: 07930203203 Email: Hector.Machado@architainment.co.uk Alternative Manufacturers: Lightgraphix Tryka	Product range: XOOLUM IP67 65° (with adjustable bracket) Part no: TBC	LED Colour rendering index: >Ra85 Colour temperature: 3000K Nominal luminaire power consumption: 15W/m Luminaire lumens: ≈ 1040lm/m (105lm/C.W)	

LUMINAIRES WITH THEIR REFERENCE UNDERLINED AND HIGHLIGHTED YELLOW HAVE BEEN ADDED OR MODIFIED IN THIS REVISION										
LOCATION AND COMMENT	Ref.		Image	Dimensions	General Information	Description	Manufacturer & Contact	Product range & Catalogue No.	Light Source	Photometry
Retail Units	BX	13b			Width (mm): 25.4 Height (mm): 36 Length (mm): varies Finish: Anodised aluminium IP rating: IP67 Weight (kg): TBC	Surface mounted linear luminaire with 25° optics and clear cover to uplight retail unit canopies. To be supplied with DALI dimmable electronic control gear. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver. Warm white (3000k) light emission - Final CCT to be reviewed at tender stage to match BX14.	Manufacturer: LED Linear (via Architainment Lighting Ltd) Contact: Hector Machado Tel: 07930203203 Email: Hector.Machado@architainment.co.uk Alternative Manufacturers: Lightgraphix Tryka	Product range: XOOLUM IP67 25° (with adjustable bracket) Part no: TBC	LED Colour rendering index: >Ra85 Colour temperature: 3000K Nominal luminaire power consumption: 15W/m Luminaire lumens: ≈ 1040lm/m (105lm/C.W)	
L02 Café Terrace	BX	14			Width (mm): 26 Height (mm): 67.5 Length (mm): varies, max. 1500mm Recess depth (mm): Additional box section to sui to suit build up Cut-out Diameter (mm): NA Finish: Stainless steel IP rating: IP67 Weight (kg): TBC	Recessed linear diffused light line flush integrated with timber paving at Headland areas. To be supplied and installed by Light Lab To be supplied with DALI dimmable electronic control gear. Contractor must ensure that the luminaire and driver are compatible with the building dimming control system and that dimming and dimmed output occur without visible flicker. Remote driver. Griplock bonded to box section spacer and roof insulation layer. Remote 24v power supply required with IP68 connections. (2700K) light emission.	Manufacturer: Lightlab Contact: Phil Riley Tel: 020 7278 2678. Email: phil@thelightlab.co.uk Alternative Manufacturers: LED Linear KKDC	Product range: Glow Line Ingorund Part no: TBC	LED Colour rendering index: >85+ Colour temperature: (appearance 2500K) Nominal luminaire power consumption: 14W/m Luminaire lumens: 313lm/m (11lm/C.W) Macadam >3	

LUMINAIRES WITH THEIR REFERENCE UNDERLINED AND HIGHLIGHTED YELLOW HAVE BEEN ADDED OR MODIFIED IN THIS REVISION									
LOCATION AND COMMENT	Ref.	Image	Dimensions	General Information	Description	Manufacturer & Contact	Product range & Catalogue No.	Light Source	Photometry
ELEVATED WALKWAYS									
Location: Elevated walkways ADDED FOR CRF1111	<u>BX</u> <u>20</u>		15 x 15mm luminaire section. Stainless steel fixing clips require 16.5mm width and 18mm depth for the luminaire to sit flush within its housing. Length: 600mm 	IP rating: IP54	Linear luminaire with perfectly homogenous luminance on front surface. Anodised aluminium, polycarbonate colourLED® profile, polycarbonate end caps. Built in reflector Extruded polycarbonate ColourLED® technology with increased light transmission over conventional opal diffusers IP54 ingress protection. No part of the luminaire shall rest in standing water. Adequate drainage is required near the base of the luminaire. Remote driver required. The contractor shall consult the product manufacturer to determine the optimal quantity and location of drivers for the luminaire installation. Stainless steel fixing clips required.	Manufacturer: Light Graphix Contact: Rob Buxton Tel: 01322527629 Email: robert@lightgraphix.biz	Product range: LD Line 15 Part no: <u>LD Line 15 / Short / LW30 / SC / IP54 / 600mm</u>	Osram LEDs Colour rendering index: >Ra80 Colour temperature: 3000K Nominal luminaire power consumption: 8.7W per metre Delivered lumens: 294	
ALTERATIONS TO THE DESIGN STRATEGY AND ANY ALTERNATIVE LUMINAIRES PROPOSED BY THE CONTRACTOR MUST BE AGREED WITH THE CLIENT REPRESENTATIVE TEAM AND PRESENTED TO THE CLIENT, WITH CLEAR JUSTIFICATION FOR CHANGE, PRIOR TO ACCEPTANCE AND INCORPORATION INTO THE PROJECT. REFER TO 63 SERIES LAYOUTS FOR REMOTE DRIVER LOCATIONS.									