

Artin.

Creative Lighting Design

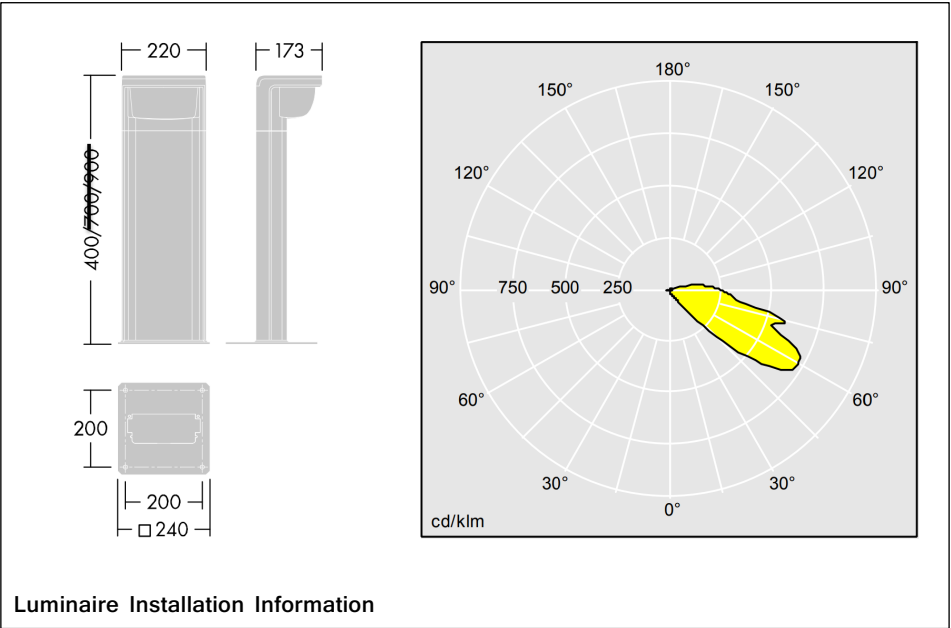
Luminaires

B-X

Description	Highway lighting from low level luminaire
Location	Turning circle
Fixing Type	Surface mounted, beneath soft landscape level
Finish	RAL
Attachments / Spec	To be RAL Finished to match landscape architecture
Colour Temperature	2,700K
Colour Rendering Index	>80
Dimensions	173 x 220 x 400 mm
Dimming Protocol	Switched (Requires DALI Relay for circuit)
Driver	Integrated
Wattage	6W
Lumen Output	350
Lumens per Watt	60
IP Rating	IP65
Notes	Raze 400mm Bollard
Manufacturer	Thorn
Reference	Paul King 07748 775 411 paul.king@zumtobelgroup.com



Luminaire Image



Luminaire Installation Information

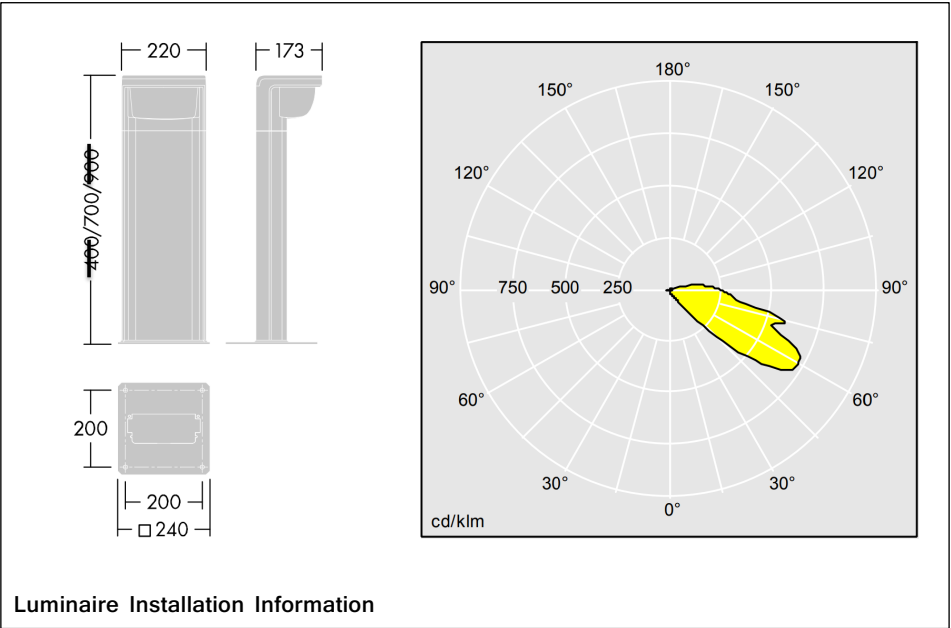
Artin.

B-Y

Description	Highway lighting from medium level luminaire
Location	Back of house areas
Fixing Type	Surface mounted, beneath soft landscape level
Finish	RAL
Attachments / Spec	To be RAL Finished to match landscape architecture
Colour Temperature	2,700K
Colour Rendering Index	>80
Dimensions	173 x 220 x 700 mm
Dimming Protocol	Switched (Requires DALI Relay for circuit)
Driver	Integrated
Wattage	15W
Lumen Output	696
Lumens per Watt	60
IP Rating	IP65
Notes	Raze 700mm Bollard
Manufacturer	Thorn
Reference	Paul King 07748 775 411 paul.king@zumtobelgroup.com



Luminaire Image



Luminaire Installation Information

Artin.

C-A

Description	Entrance area column illumination
Location	Entrance walkways
Fixing Type	4m straight column
Finish	Black
Attachments / Spec	Cowl for glare control
Colour Temperature	2,700K
Colour Rendering Index	>85
Dimensions	219x308x231
Dimming Protocol	DALI
Driver	Integrated
Wattage	6 – 38W
Lumen Output	1,600 - 4,100
Lumens per Watt	Upto 136
IP Rating	IP65
Notes	Valinta Optical 50001 Optical 50009 (For Bike Lock Area)
Manufacturer	Urbis Schreder
Reference	mark.searle@schreder.com 07968 324451 mark.searle@schreder.com

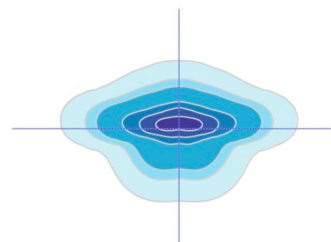
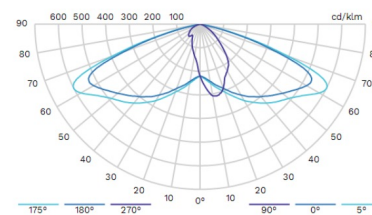
Specification for 4m straight column with 2No. Luminaire with glare control



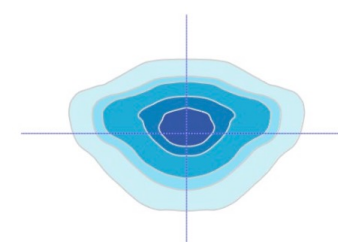
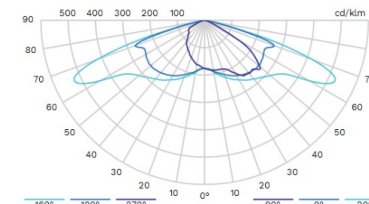
Luminaire Image



50001



50009



Luminaire Installation Information

Artin.

C-B

Description	North park column with gobo
Location	Entrance walkways
Fixing Type	4m straight column
Finish	Black
Attachments / Spec	Cowl for glare control
Colour Temperature	2,700K
Colour Rendering Index	>85
Dimensions	219x308x231
Dimming Protocol	DALI
Driver	Integrated
Wattage	6 – 38W
Lumen Output	1,600 - 4,100
Lumens per Watt	Upto 136
IP Rating	IP65
Notes	Valinta Optical 50001
Manufacturer	Urbis Schreder
Reference	mark.searle@schreder.com 07968 324451 mark.searle@schreder.com

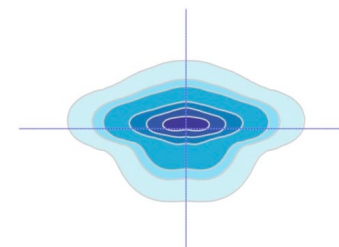
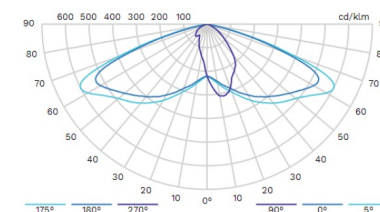
Specification for 4m straight column with 2No. Luminaire with glare control



Luminaire Image



50001



Luminaire Installation Information

Artin.

C-C

Description	Small area column with seating
Location	Entrance walkways
Fixing Type	4m straight column
Finish	Black
Attachments / Spec	Cowl for glare control
Colour Temperature	2,700K
Colour Rendering Index	>85
Dimensions	219x308x231
Dimming Protocol	DALI
Driver	Integrated
Wattage	6 – 38W
Lumen Output	1,600 - 4,100
Lumens per Watt	Upto 136
IP Rating	IP65
Notes	Valinta Optical 50001
Manufacturer	Urbis Schreder
Reference	mark.searle@schreder.com 07968 324451 mark.searle@schreder.com

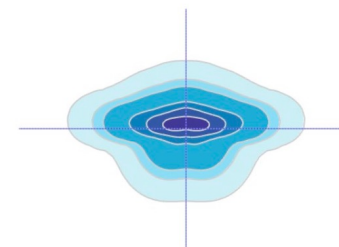
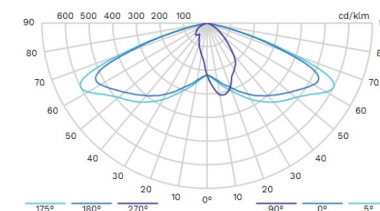
Specification for 4m straight column with 2No. Luminaire with glare control



Luminaire Image

LENZO
FLEX™4

50001

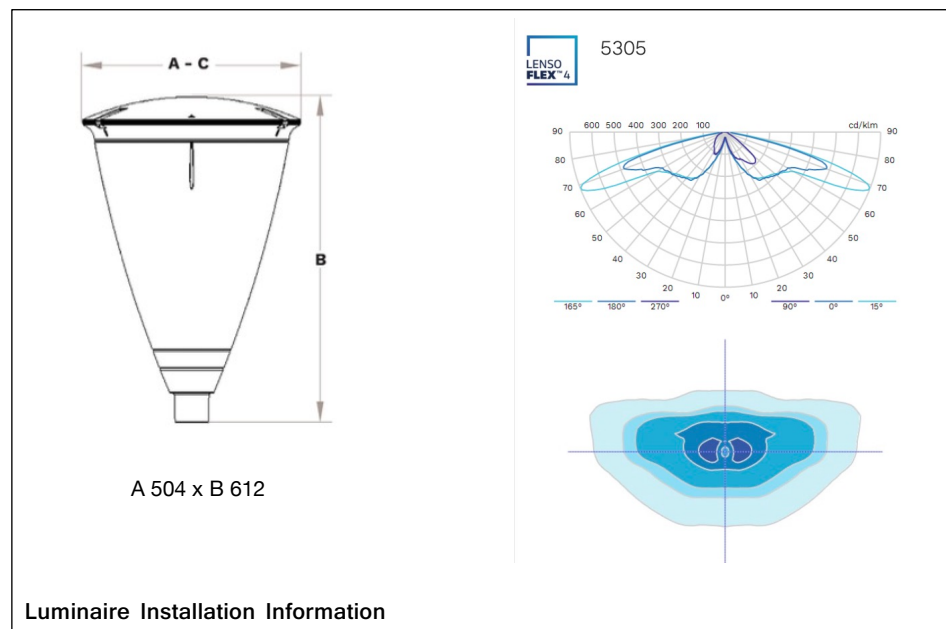


Luminaire Installation Information

Artin.

C-D

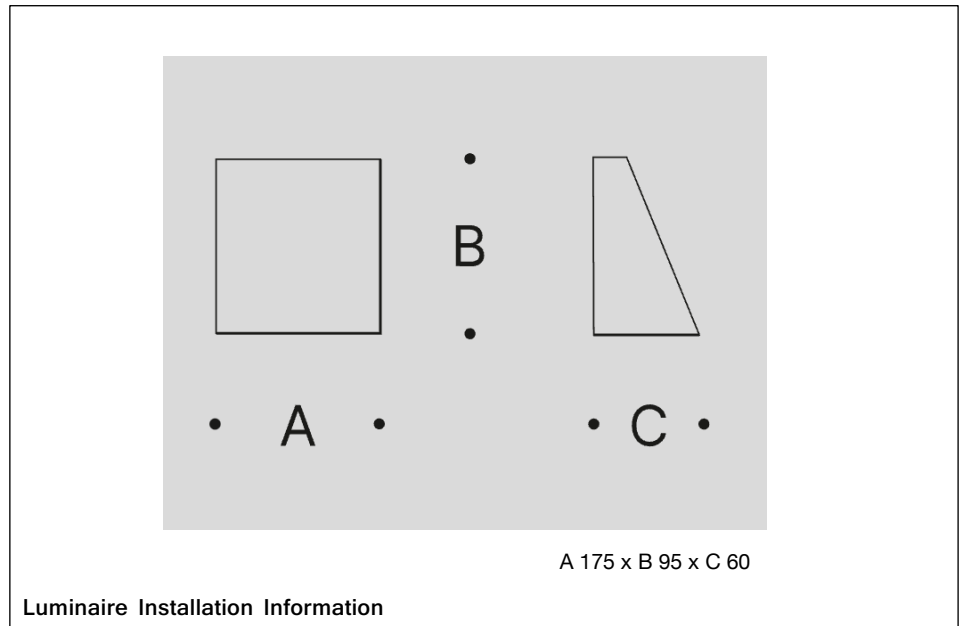
Description	Back of house column luminaire
Location	Entrance walkways
Fixing Type	4m straight column
Finish	Black
Attachments / Spec	Cowl for glare control
Colour Temperature	2,700K
Colour Rendering Index	>85
Dimensions	219x308x231
Dimming Protocol	DALI
Driver	Integrated
Wattage	6 – 38W
Lumen Output	1,600 - 4,100
Lumens per Watt	Upto 136
IP Rating	IP65
Notes	Valinta Optical 50001
Manufacturer	Urbis Schreder
Reference	mark.searle@schreder.com 07968 324451 mark.searle@schreder.com



Artin.

D

Description	Back of house wall mounted luminaire
Location	Exterior buildings
Fixing Type	Wall mounted
Finish	Black
Attachments / Spec	
Colour Temperature	2,700K
Colour Rendering Index	<85
Dimensions	A 175 x B 95 x C 60
Dimming Protocol	Switched (Requires DALI Relay for circuit)
Driver	Integrated
Wattage	5.2
Lumen Output	437
Lumens per Watt	Text
IP Rating	IP64 IK07
Notes	22 261 K3
Manufacturer	Bega
Reference	Matthew Sherry 07584 149 451 matthew@optelma.co.uk

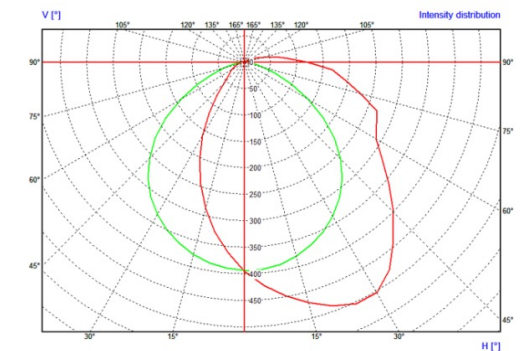


H

Description	Handrail lighting
Location	Staircase areas
Fixing Type	Handrail mounting
Finish	TPM to Confirm
Attachments / Spec	Asymmetrical lensing
Colour Temperature	2,700K
Colour Rendering Index	>80
Dimensions	300mm x 27mm x 30mm – LED module length Ø42mm or Ø48mm handrail available
Dimming Protocol	DALI
Driver	Integrated
Wattage	7
Lumen Output	400
Lumens per Watt	55
IP Rating	IP67 / IK10
Notes	Continulux 2,400K Asymmetrical
Manufacturer	The Light Lab
Reference	Chris Burridge chris.burridge@thelightlab.com



Luminaire Image



Luminaire Installation Information

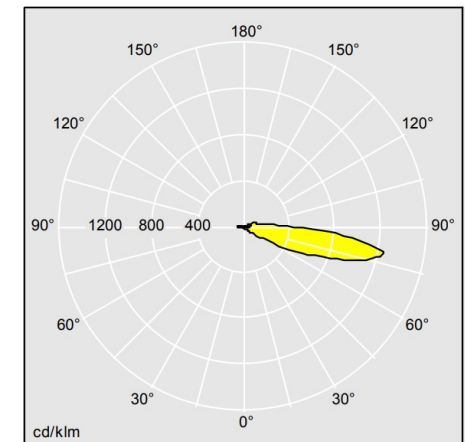
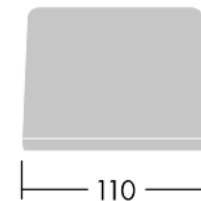
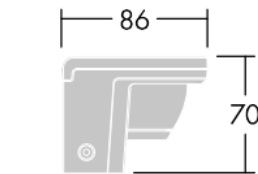
P

Description	Surface mounted luminaire for parking ramp
Location	Ramp leading to the car park area
Fixing Type	Surface
Finish	RAL to match surface integration
Attachments / Spec	-
Colour Temperature	2,700K or 3,000K
Colour Rendering Index	>80
Dimensions	86 x 70 x 110 mm
Dimming Protocol	Switched (Requires DALI Relay for circuit)
Driver	Integrated
Wattage	12W
Lumen Output	740
Lumens per Watt	58
IP Rating	IP66 IK08
Notes	1.23Kg Raze Architectural 12W
Manufacturer	Thorn
Reference	Paul King 07748 775 411 paul.king@zumtobelgroup.com

Artin.



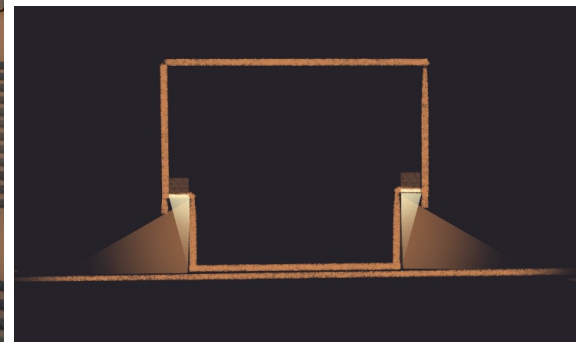
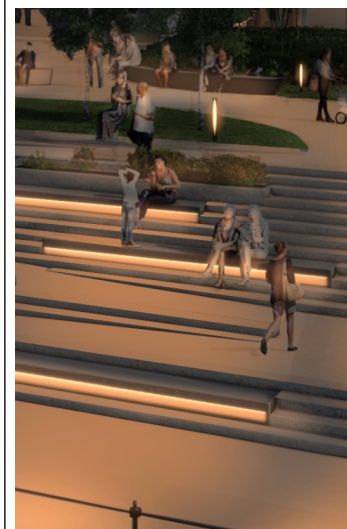
Luminaire Image



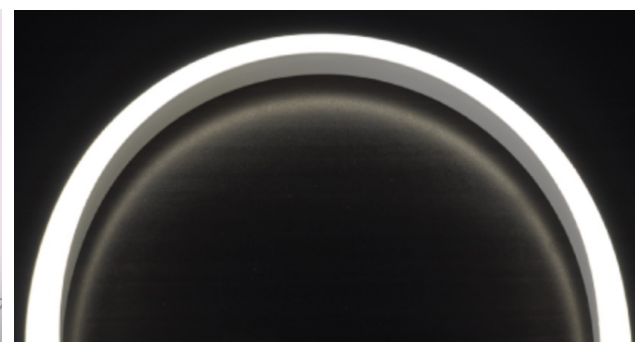
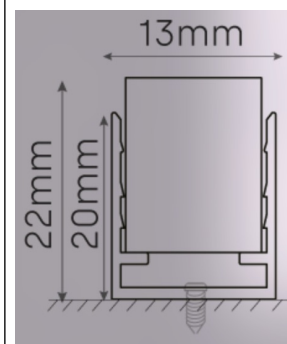
Luminaire Installation Information

S-A

Description	Stramp integrated LED luminaire Type A
Location	Stramp seating
Fixing Type	Integrated to bench detail
Finish	As supplied
Attachments / Spec	Bracket channel for pre-installation (22mm x 13mm) with cable ready to feed and power luminaire when bench construction is finalised.
Colour Temperature	2,400K
Colour Rendering Index	>90
Dimensions	22mm x 13mm (LED 18mm x 13mm)
Dimming Protocol	DALI (Driver to be remote)
Driver	Remote meanwell 24V PSU Driver
Wattage	12W/m
Lumen Output	1200/m
Lumens per Watt	100
IP Rating	IP68
Notes	Continuity S + Installation Channel
Manufacturer	Tryka
Reference	Colin Gawne 07890 110951 colin.gawne@tryka.com

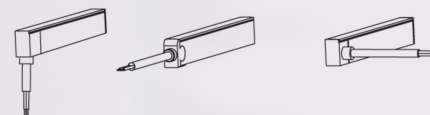


Luminaire Image



Moulded Cable Entry Options

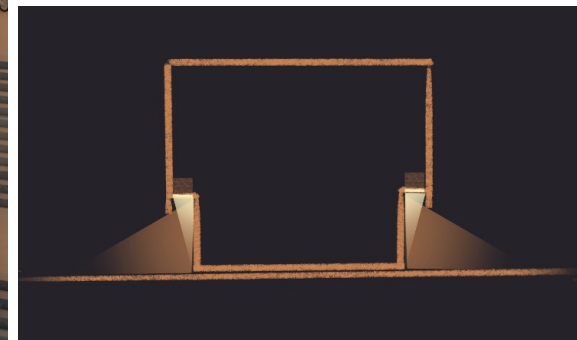
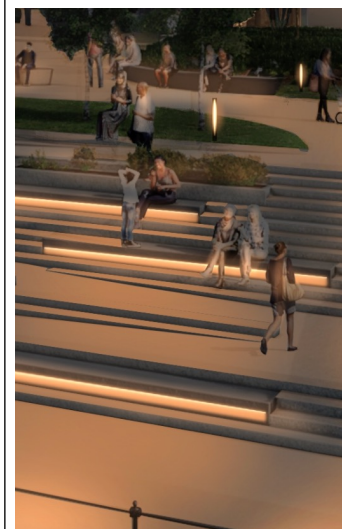
Back Feed End Feed Side Feed



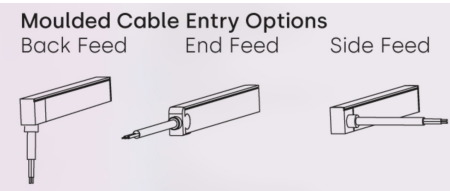
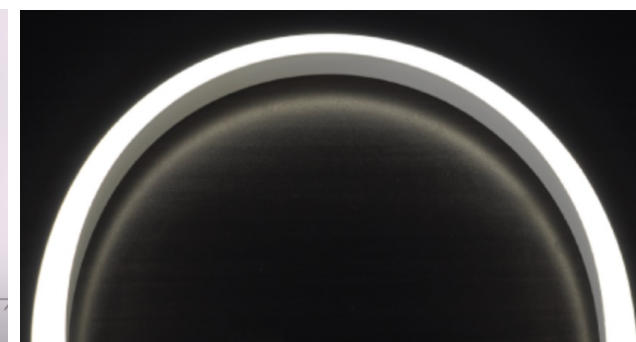
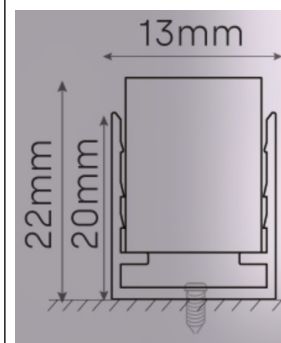
Luminaire Installation Information

S-B

Description	Stramp integrated LED luminaire Type B
Location	Stramp seating
Fixing Type	Integrated to bench detail
Finish	As supplied
Attachments / Spec	Bracket channel for pre-installation (22mm x 13mm) with cable ready to feed and power luminaire when bench construction is finalised.
Colour Temperature	2,700K
Colour Rendering Index	>90
Dimensions	22mm x 13mm (LED 18mm x 13mm)
Dimming Protocol	DALI (Driver to be remote)
Driver	Remote meanwell 24V PSU Driver
Wattage	12W/m
Lumen Output	1200/m
Lumens per Watt	100
IP Rating	IP68
Notes	Continuity S + Installation Channel
Manufacturer	Tryka
Reference	Colin Gawne 07890 110951 colin.gawne@tryka.com



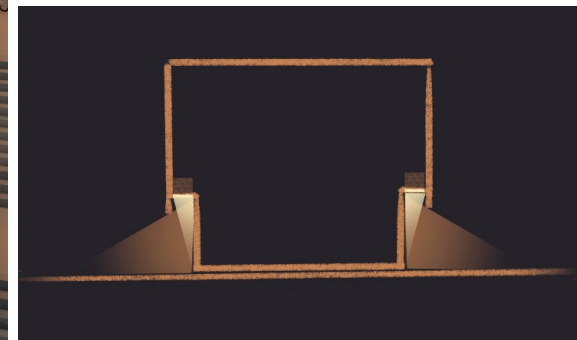
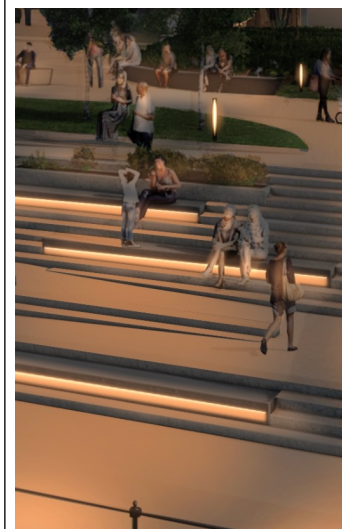
Luminaire Image



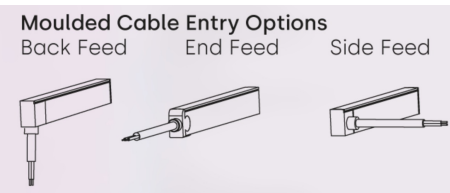
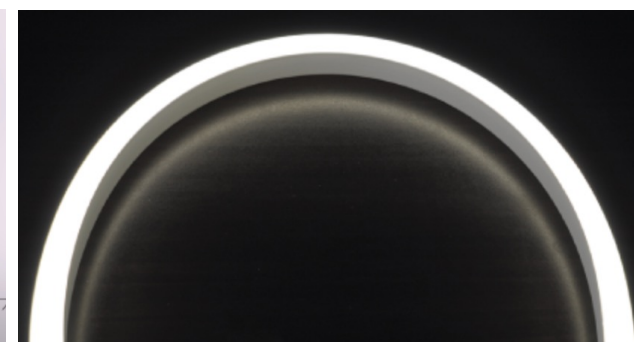
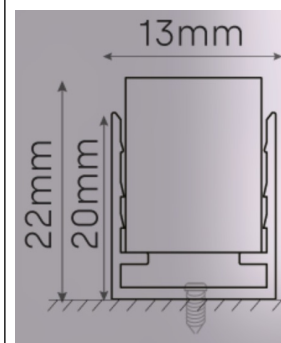
Luminaire Installation Information

S-C

Description	Seating integrated LED luminaire Type C
Location	Stramp seating
Fixing Type	Integrated to bench detail
Finish	As supplied
Attachments / Spec	Bracket channel for pre-installation (22mm x 13mm) with cable ready to feed and power luminaire when bench construction is finalised.
Colour Temperature	2,700K
Colour Rendering Index	>90
Dimensions	22mm x 13mm (LED 18mm x 13mm)
Dimming Protocol	DALI (Driver to be remote)
Driver	Remote meanwell 24V PSU Driver
Wattage	12W/m
Lumen Output	1200/m
Lumens per Watt	100
IP Rating	IP68
Notes	Continuity S + Installation Channel
Manufacturer	Tryka
Reference	Colin Gawne 07890 110951 colin.gawne@tryka.com



Luminaire Image



Luminaire Installation Information

W

Description	Wind baffle illumination
Location	
Fixing Type	
Finish	
Attachments / Spec	
Colour Temperature	
Colour Rendering Index	
Dimensions	
Dimming Protocol	
Driver	
Wattage	
Lumen Output	
Lumens per Watt	
IP Rating	
Notes	
Manufacturer	
Reference	



Control

Control System

Description	Helvar DALI Lighting control system for public realm lighting within the Trinity Islands exterior lighting complex.
Requirements	System to be specified by Helvar in conjunction with this specification, lighting control schedule and the following system specification points: - Must provide programmable astronomical time clock functionality to all DALI - Must provide functionality and control, include curfew dimming and individual scene setting commands for all the lighting within Trinity Islands project boundary of this project. - Provide switched relay mains to individual luminaires which do not require dimming via DALI functionality. - Remote login via simple web interface and control. - Helvar to provide full enclosure with all components required from the lighting control schedule for the contractor to install accordingly. - Helvar to provide quotation for engineer to be available to oversee installation and provide support and commissioning and training for a successful handover to the contractor and client teams respectively. - All components, equipment and commisioning to be compiled to a single quote for the entire Trinity Islands Exterior public realm scope and scheme. - Wireless solutions to be considered where suitable on the scheme for control of lighting eqiupment, Helvar to advise suitability and performance level, as well as equipment required where reduction of control cabling is required.
Further Details	Internet connection via static IP to allow for simple Helvar built web interface for secure login control and maintenance of the lighting control system.
Manufacturer	Helvar
Reference	Stephen Marley 07587098038 stephen.marley@helvar.com

Example of touchscreen interface from manufacturer



LUMINAIRE SCHEDULE NOTES

- The main contractor shall provide 1no sample of each luminaire type for the client, architect and lighting designer to review prior to final sign off and ordering of the equipment
- All samples shall be plugged to review light distribution and effect
- Where bespoke luminaires have been specified the main contractor shall issue detail design drawings for each fitting type for the client, architect and lighting designer to review prior to final sign off and ordering of the equipment
- The main contractor shall ensure all lighting equipment is compatible with the chosen control gear and provides both seamless dimming and colour change capabilities
- 'e' Adjacent to luminaire references denotes 3hr integral emergency conversion unless otherwise stated
- The Main Contractor shall ensure all luminaires have the necessary British Standard compliance with Building Regulations and Fire Safety Regulations