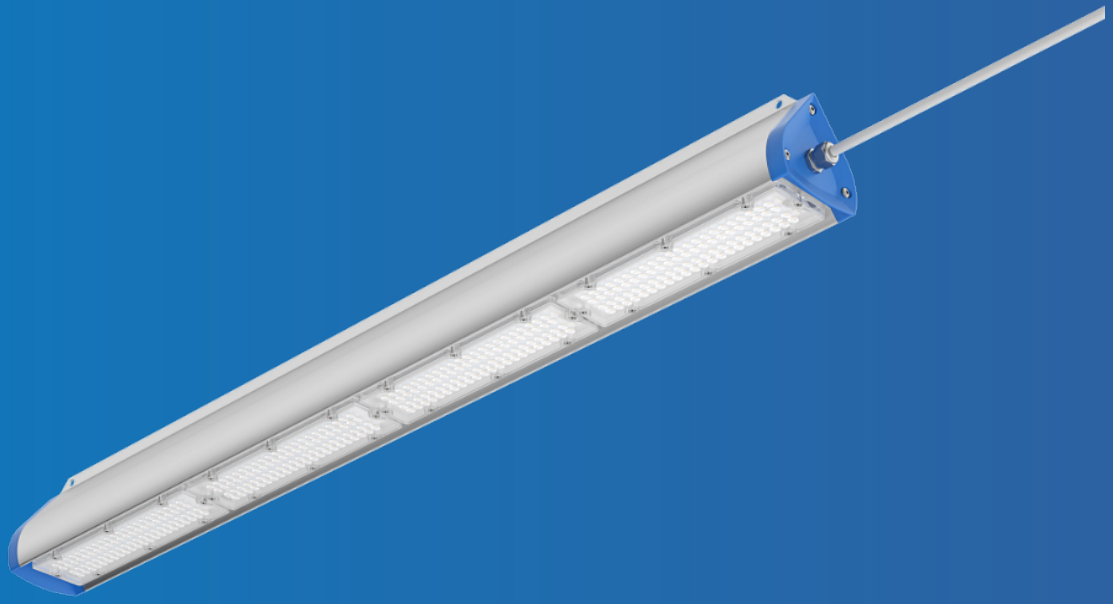
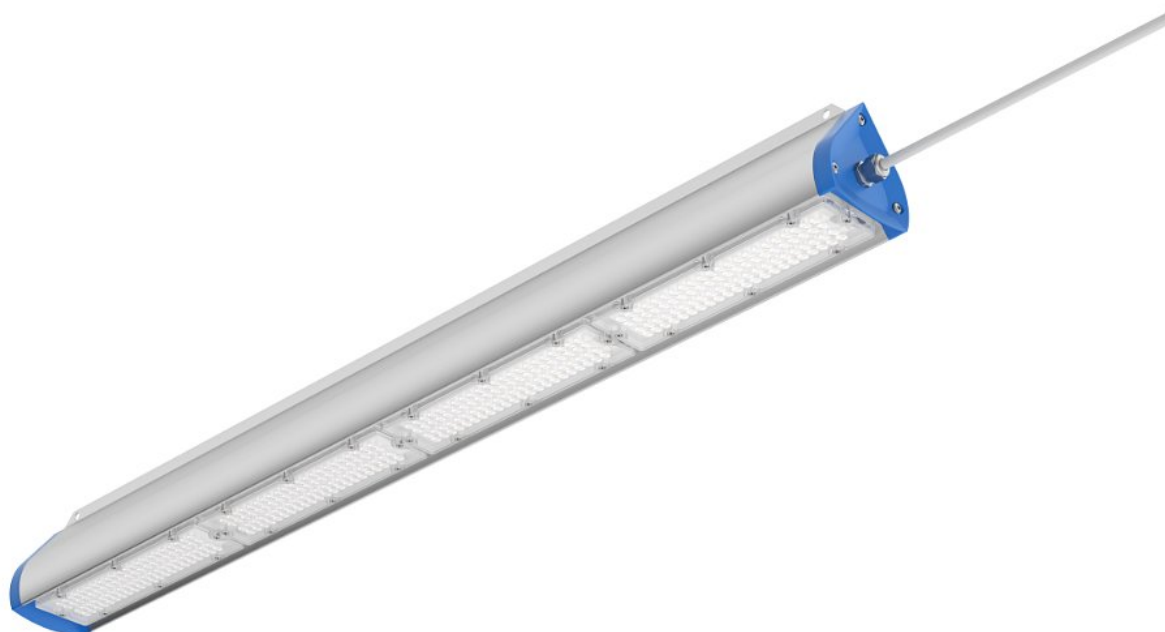




Product Specification

Torrent 2



INTRODUCTION

The combination of stringent hygiene requirements, high ambient temperatures and the substantial costs associated with production stoppages in food processing applications requires a unique approach to luminaire design. The Torrent 2 has been designed to address these issues to ensure that food production applications can be effectively lit with the minimum of energy whilst also being able to withstand rigorous cleaning, provide excellent thermal management and offer state of the art life expectancy to minimise maintenance.

The Torrent 2 incorporates a tear drop profile extruded aluminium housing with anodised finish to eliminate any potential dirt or dust traps whilst also ensuring that the coating can not flake or peel risking food contamination. With an IP66 rating the Torrent 2 is designed to withstand high pressure cleaning whilst the aluminium profile provides thermal management allowing specific variants to be used in areas with an ambient temperature of up to 50°C. The Torrent 2 uses only our latest mid power LEDs offering in excess of 206lm/W with lumen depreciation of just 20% after 100,000 operating hours, the driver is rated to 100,000 hour lifetime and integral emergency variants use Lithium Iron Phosphate batteries with a five year warranty and greatly extended battery lifetime compared to chemistries such as nickel metal hydride. This combination of premium components ensures that costly shut downs for essential maintenance and repairs are minimised further improving return on investment far beyond energy saving alone.

With two housing sizes, a wide range of lumen outputs and four lens variants the Torrent 2 can be easily tailored to suit a range of mounting heights and spacings allowing for simple retrofit of existing applications whilst a range of wireless options and integral daylight regulation and presence detection in IP65 variants offer automated emergency testing and reporting and further enhance energy savings.



CE IP66 TM21: L90>60K HOURS / L80>100K HOURS 3 STEP MACADAM ELLIPSE

APPLICATION

- Food Production
- Industrial & Manufacturing
- Warehousing

SPECIFICATION

CONSTRUCTION

- Housing: Extruded aluminium
- Finish: Anodised aluminium
- Endcaps: Injection moulded polycarbonate
- Lens: Injection moulded polycarbonate lens
- IK09 (Non sensor variants)
- IP66

PERFORMANCE

- Part L2 compliant
- 3SDCM Three step Macadams ellipse
- TM21: L90>60K Hours / L80>100K Hours
- Up to 206 luminaire lumens per circuit Watt

ENVIRONMENTAL

- Designed to allow simple replacement of components with commonly available tools in compliance with the Eco Design Directive, please see the installation leaflet for maintenance instructions.
- Powered by European branded drivers and emergency modules ensuring replacement parts are easily sourced.
- Every luminaire is labelled with a unique ID number allowing easy identification of spare parts for the lifetime of the product.
- Contains no single use plastics or polystyrene packaging.
- Supplied in plain card boxes with paper tape ensuring packaging is easily recycled.
- Designed to allow simple disassembly for end of life recycling.
- UK based manufacturing providing local support throughout the product lifetime and minimising transportation miles.

EMERGENCY

- Available with optional standard, self test and autotest integral emergency with lithium batteries for extended warranty and lifetime.
- Optional Reacta-Link wireless emergency for automated centralised reporting.
- Optional Reacta-Control wireless emergency for automated centralised reporting.

- Optional central battery changeover relay

CONTROL

- Optional compatibility with a range of dimming systems including DALI, DSI and Switch Dimming
- Optional Integral R18 presence and daylight sensor
- Optional integral Reacta-Link for integration with Reacta-Link wireless installations

INSTALLATION

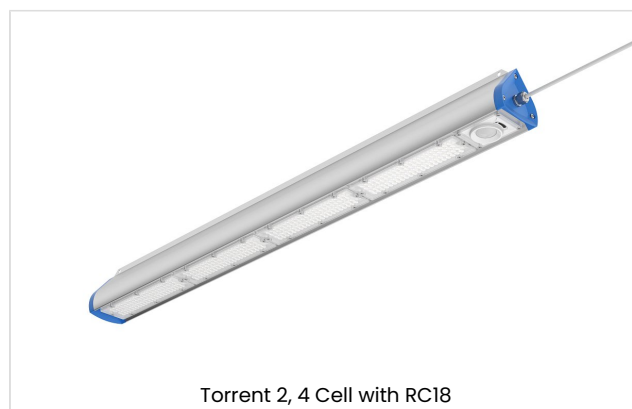
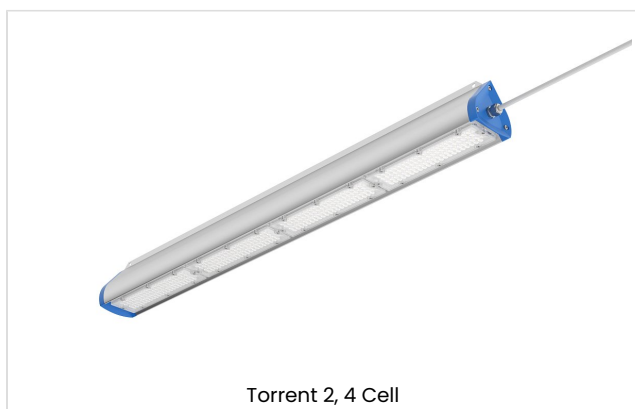
- Suitable for suspended installation
- Suitable for trunking installation
- Suitable for surface installation

VARIATIONS

- Available with a wide range of colour temperatures and renderings
- Available in a range of housing sizes and lumen outputs

IMAGES

PRODUCT IMAGES





Torrent 2 Suspended

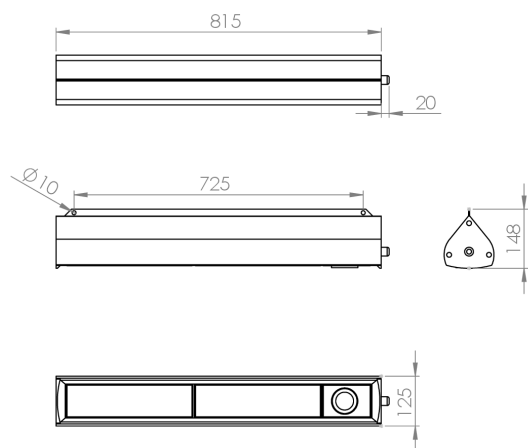


Torrent 2 Trunking Mounted

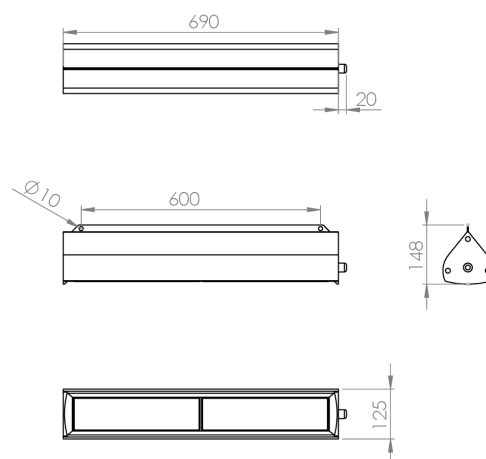


Torrent 2 Wall Mounted

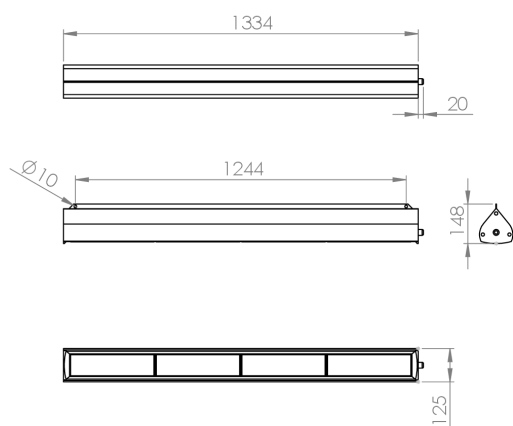
TECHNICAL



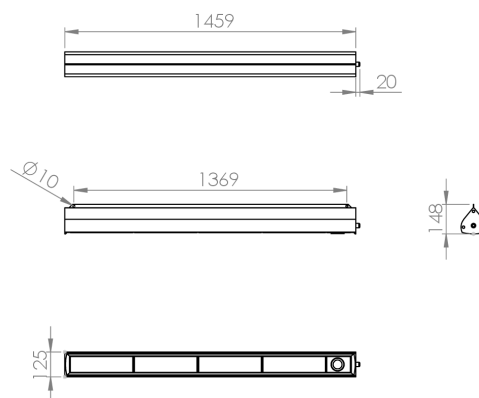
Torrent 2 2 cell with sensor



Torrent 2 2 cell



Torrent 2 4 cell



Torrent 2 4 cell with sensor

WARRANTY

At Dextra our commitment to service has been at the forefront throughout our history spanning more than forty years in the UK lighting market. Our service ethos extends beyond design and delivery, we believe supporting your installation throughout the warranty period is equally crucial, whilst the strength and longevity of Dextra Group provides peace of mind that our warranty will be supported throughout.

The Dextra range is supplied with a five year warranty commencing from the date of delivery. During the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years drivers, emergency modules, wireless modules, sensors and LED circuits will be supplied free of charge to replace defective components, labour and other associated costs are not included.

Certain ranges and components are subject to exemptions:

- Lithium batteries are provided with a five year warranty. During the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years replacement batteries will be supplied free of charge to replace defective components. Five year warranty became effective as of 03/02/25, Lithium emergency luminaires supplied prior to this date are supported with a three year on site warranty only. Labour and other associated costs are not included. Nickel Metal Hydride and Nickel Cadmium batteries are provided with a one year warranty for parts and labour.
- Emergency luminaires including AME2, EXI LED, EXI3, HBE3, HBE4, OAT2 LED and Twinspot are supplied with a one year warranty for parts and labour. Lithium variants suffixed with the 5YR part code, the Autotest emergency with the LA3 part code and wireless variants with LA3RC or LSTR part codes are supplied with a five year warranty. For these extended warranty variants for the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years replacement batteries will be supplied free of charge to replace defective components.
- Protec Micro, PTECF7 Fire Rated Downlights, Serenus and the Opus Sconce are provided with a five year replacement luminaire only warranty. Protec FR Fire Rated Downlights are provided with a 2 year replacement luminaire only warranty.
- Controls systems such as standalone sensors, switches, marshalling boxes and cabling are provided with a one year warranty for both parts and labour. DALI control systems are provided with a two year warranty for both parts and labour.
- LEDextra ranges are supplied with a three year parts or replacement luminaire only warranty with the exception of the IMPR RGBW, the Runway RGBW, the MOD RGBW, Tanek RGBW and the DexRing. These five ranges are supplied with our standard five year warranty during which defects within the first three years will be repaired on site and the warranty includes both parts and labour. For the final two years free of charge replacement components only will be supplied to rectify any failures but labour and other associated costs are not included.
- LEDEX ranges are supplied with a three year replacement luminaire only warranty.
- The Decorative Pendant ranges, Bebo, Dene, Nova, Fino and Stix are supplied with a 3 year replacement luminaire only warranty.

All warranties are subject to correct use of the product and will be invalidated by misuse, for example incorrect installation, unsuitable environmental conditions or incorrect maintenance. It is the duty of the customer to ensure that all the fault lies with the luminaire prior to requesting replacement parts or site repairs. In the event that no defect is found with the product our costs for attending site will be recharged to the customer and credit

will not be issued against returned products. No consequential losses incurred resulting from any defect with our product will be reimbursed.

Given the nature of LED technology a small percentage of LEDs may fail during the lifetime of a luminaire, this does not cause a reduction in lumen output. As such LED luminaires are only deemed to be faulty for warranty purposes when in excess of ten percent of LEDs have failed in a single luminaire.

On site repair of products under warranty will be undertaken during normal working hours, 9am to 5pm Monday to Friday, and will require unrestricted access to luminaires. Where required Dextra will provide access equipment to carry out repairs at height, should luminaires have been installed in locations where reasonable provision for maintenance access has not been made we reserve the right to supply replacement product only. On site warranty repairs will only be undertaken on the mainland of the UK and Ireland, in all other locations replacement product only will be provided.

If you require any assistance with regards to our products please contact our Customer Services department on 01747 858100.

ORDER CODES

LUMINAIRE

Code	Description	Power	Llm/W
TOR2 L80 UW	Torrent II, 2 Cell, 7,777llm, Ultra Wide, Colour 84	40.7W	191
TOR2 L80 OA	Torrent II, 2 Cell, 7,809llm, Open Area, Colour 84	40.7W	192
TOR2 L80 HR	Torrent II, 2 Cell, 7,727llm, High Rack, Colour 84	40.7W	190
TOR2 L80 UHR	Torrent II, 2 Cell, 7,636llm, Ultra High Rack, Colour 84	40.7W	188
TOR2 L100 UW	Torrent II, 2 Cell, 9,722llm, Ultra Wide, Colour 84	51.8W	188
TOR2 L100 OA	Torrent II, 2 Cell, 9,762llm, Open Area, Colour 84	51.8W	188
TOR2 L100 HR	Torrent II, 2 Cell, 9,659llm, High Rack, Colour 84	51.8W	186
TOR2 L100 UHR	Torrent II, 2 Cell, 9,545llm, Ultra High Rack, Colour 84	51.8W	184
TOR2 L120 UW	Torrent II, 2 Cell, 11,983llm, Ultra Wide, Colour 84	63.6W	188
TOR2 L120 OA	Torrent II, 2 Cell, 12,033llm, Open Area, Colour 84	63.6W	189
TOR2 L120 HR	Torrent II, 2 Cell, 11,906llm, High Rack, Colour 84	63.6W	187
TOR2 L120 UHR	Torrent II, 2 Cell, 11,765llm, Ultra High Rack, Colour 84	63.6W	185
TOR2 L140 UW	Torrent II, 4 Cell, 13,609llm, Ultra Wide, Colour 84	69.9W	195
TOR2 L140 OA	Torrent II, 4 Cell, 13,665llm, Open Area, Colour 84	69.9W	195
TOR2 L140 HR	Torrent II, 4 Cell, 13,241llm, High Rack, Colour 84	69.9W	189
TOR2 L140 UHR	Torrent II, 4 Cell, 13,222llm, Ultra High Rack, Colour 84	69.9W	189
TOR2 L160 UW	Torrent II, 4 Cell, 15,554llm, Ultra Wide, Colour 84	76.0W	205
TOR2 L160 OA	Torrent II, 4 Cell, 15,618llm, Open Area, Colour 84	76.0W	206
TOR2 L160 HR	Torrent II, 4 Cell, 15,292llm, High Rack, Colour 84	76.0W	201
TOR2 L160 UHR	Torrent II, 4 Cell, 15,110llm, Ultra High Rack, Colour 84	76.0W	199
TOR2 L200 UW	Torrent II, 4 Cell, 19,442llm, Ultra Wide, Colour 84	98.3W	198
TOR2 L200 OA	Torrent II, 4 Cell, 19,522llm, Open Area, Colour 84	98.3W	199
TOR2 L200 HR	Torrent II, 4 Cell, 19,116llm, High Rack, Colour 84	98.3W	194
TOR2 L200 UHR	Torrent II, 4 Cell, 19,088llm, Ultra High Rack, Colour 84	98.3W	194
TOR2 L240 UW	Torrent II, 4 Cell, 22,804llm, Ultra Wide, Colour 84	118.6W	192
TOR2 L240 OA	Torrent II, 4 Cell, 22,985llm, Open Area, Colour 84	118.6W	194
TOR2 L240 HR	Torrent II, 4 Cell, 22,507llm, High Rack, Colour 84	118.6W	190
TOR2 L240 UHR	Torrent II, 4 Cell, 22,474llm, Ultra High Rack, Colour 84	118.6W	189

DIMMING

Code	Description
A	DALI Digital Addressable Lighting Interface
S	Switch Dimming
D	DSI Digital Dimming
H	HFR Analogue 1-10v

CONTROL

Code	Description
RC18	Reacta 18 IP65, Presence and Daylight, 8-18M
MS18	Reacta 18 IP65, Presence and Daylight, 8-18M

EMERGENCY

Code	Description
------	-------------

LE3	Lithium Standard Emergency 3 Hour
LS3	Lithium Selftest Emergency 3 Hour
LA3	Lithium Autotest Emergency 3 Hour
LE3H	Lithium Standard Emergency 3 Hour High Output
LS3H	Lithium Selftest Emergency 3 Hour High Output
LA3H	Lithium Autotest Emergency 3 Hour High Output
LA3D	Lithium DexNET Emergency 3 Hour
LSTR	Lithium Reacta-Link Emergency 3 Hour
LA3RC	Lithium Reacta-Control Emergency 3 Hour

MISCELLANEOUS

Code	Description
C**	Select Colour Temperature and Rendering; C83, C84, C85, C865, C93, C94
TOR SUSP	Torrent 2 Suspension kit
TOR SURF	Torrent 2 Surface mounting kit
TOR TRUNK	Torrent 2 Trunking mounting kit
TOR WALL	Torrent 2 Wall mounting kit
LSF	Low Smoke Zero Halogen

220-240V / 50-60Hz
 IP69K IK09

Terminal Labelling:
Power

L1 Switched Live
 E Earth
 N Neutral

Emergency

L2 Unswitched Live
 DA/AT3 DALI Autotest
 DA/AT3 DALI Autotest

Dimming

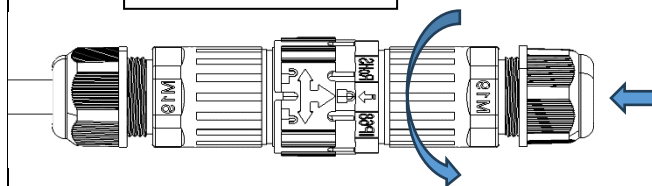
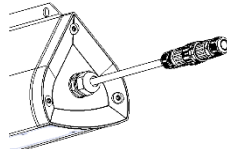
-/D1/DA Analogue/DSI/DALI
 +/D2/DA Analogue/DSI/DALI
 L3 Switch Dim / Corridor Funct



WARNING: Luminaire must be earthed. Risk of electric shock from LED boards if operated with cover removed. Installation / operation outside of luminaires intended scope invalidates warranty. Suitable only for domestic / light industrial / industrial applications within the scope of EN55015. Tested to compliance with BSEN 60598: specification for general requirements and tests. Must be installed by a suitably qualified person in accordance with all relevant legislation. Ambient operating temperature of 0°C to 25°C. If maximum operating temperature is exceeded luminaire will automatically dim / switch off. Terminal blocks are rated to 16A unless stated otherwise. The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person. **LUMINAIRES WITH EMERGENCY PACK:** When supply is isolated battery output terminals may be live if battery is connected. Isolate mains and battery before servicing. Emergency luminaires require unswitched live connection taken from same phase as switched supply. When unswitched supply is connected status indicator illuminates green, when unswitched supply is disconnected indicator extinguishes and luminaire operates in emergency mode. 24 hour charge period required before undertaking full discharge test. Emergency test sheets provided should be used to record all emergency tests. Batteries should be replaced when 3 hour duration is not met. Excessive switching of permanent live may result in premature battery failure. Battery electrolyte can be harmful to eyes / open wounds, do not puncture, if electrolyte touches skin / eyes flush with water. Do not incinerate batteries.

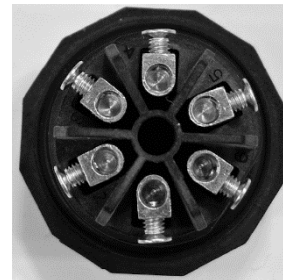
1.

Fitting is supplied complete, wire into connector



Unscrew connector cover to access terminals and pass flex through and wire in as specified.

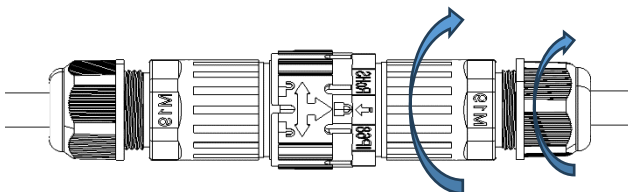
2.



Supplied in 3 or 6 pole

Terminal 1	Permanent Live
Terminal 2	Neutral
Terminal 3	Earth
Terminal 4	Switch Live
Terminal 5	DALI
Terminal 6	DALI

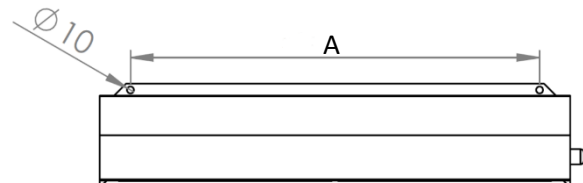
3.



Tighten cover and gasket to ensure IP rating

4.

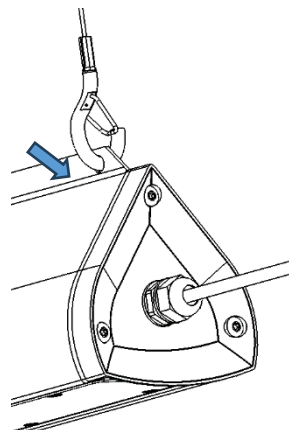
Mounting Dimensions



Luminaire	"A"
2 Lens	600mm
2 Lens + Sensor	725mm
4 Lens	1244mm
4 Lens + Sensor	1369mm

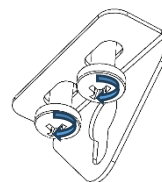
5.

Suspended

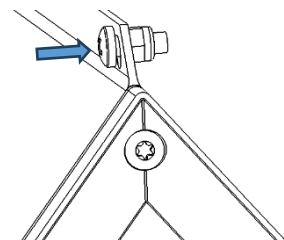


6.

Surface



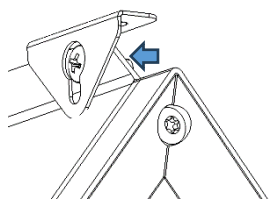
Screw x2 brackets to surface at the specified centres



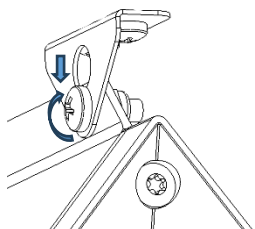
Loosely add nut and bolt on to luminaire

7.

Surface



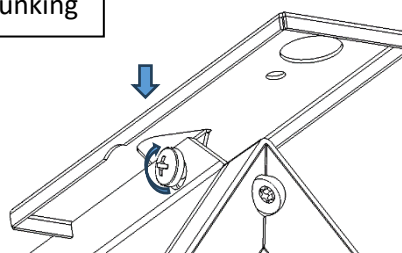
Hook bolt head
through bracket



Drop fitting down and
tighten nut and bolt

8.

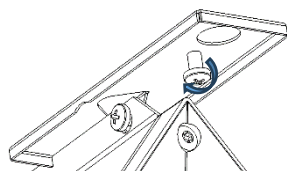
Trunking



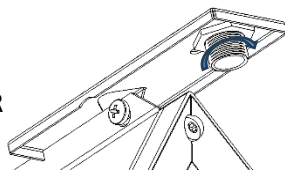
Nut and bolt bracket to the luminaire

9.

Trunking



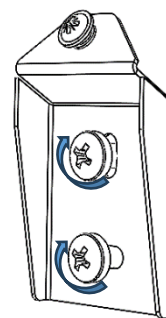
OR



10.

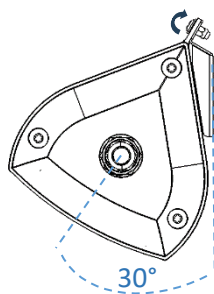
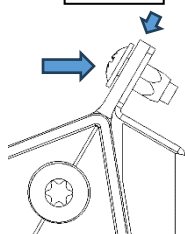
Wall

Screw x2 brackets
to the wall at the
specified centres



11.

Wall



Hook luminaire over loose screw on bracket
then tighten to secure in place

12.

Maintenance

1. Disconnect luminaire before undertaking any maintenance or cleaning.
2. Cleaning should be undertaken on external parts of the luminaire only using a slightly damp lint free cloth.
3. Unscrew endcap (T drive) in order to access gear tray to maintain components.
4. Use a pan pozi screwdriver when removing Lens/components.
5. If there is a LED circuit failure. Remove lens and replace circuit.
6. Please contact Dextra for assistance with spare component supply.

