



## PRODUCT SPECIFICATION

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GRADUATE



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## INTRODUCTION

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The Graduate is a mainstay of the Dextra range and has been extensively used in academia and healthcare applications nationwide. Available in four lengths ranging from 600mm to 1800mm, a wide range of lumen outputs as well as dimming and lithium emergency options the Graduate can be tailored for use in applications ranging from classrooms and hospital wards through to circulation and ancillary areas. With a steel housing, polycarbonate diffuser and screw retained injection moulded end caps, long life drivers and LEDs with a lifetime of L90 to 60,000 operating hours the Graduate is designed to offer excellent service life and reliability with minimal maintenance.

The Graduate is suitable for installation on conduit, surface mounting or suspension and can be offered with an optional integral microwave sensor, or the Reacta-Air sensor where wireless grouping of luminaires is required for simultaneous operation. We offer a range of wireless control systems providing localised grouping and control as well as comprehensive wireless solutions allowing both standard and emergency luminaires to be centrally monitored. For healthcare applications a nightlight can be specified to provide low level lighting during rest periods.



CE IP20 IP40 IK08 TM21: L90>60K HOURS / L80>100K HOURS 3 STEP MACADAM ELLIPSE

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## APPLICATION

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- Canteen
- Commercial / Offices
- Corridor
- Education
- Food Production
- Healthcare / Social Housing
- Hotel / Leisure
- Industrial / Manufacturing
- Retail
- Stairwell
- Store Room
- Transport
- Warehousing

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## SPECIFICATION

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### CONSTRUCTION

- Housing: 0.7mm CR4 steel
- Finish: Polyester powder painted RAL 9016 textura matt white
- Endcaps: Injection moulded polycarbonate
- Diffuser: 2mm extruded high transmission opal prismatic polycarbonate
- IK08
- IP20
- IP40

### PERFORMANCE

- Part L2 compliant
- 3SDCM Three step Macadams ellipse
- TM21: L90>60K Hours / L80>100K Hours
- Up to 160 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.
- All critical components are mounted on a single tray for simple end of life repair or upgrade.
- 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 White tunable
- Optional Integral R25 microwave presence and bright out sensor
- Optional Integral Reacta-Air wireless presence and daylight regulations sensor
- Optional integral Reacta-Link for integration with Reacta-Link wireless installations
- Optional integral Reacta-Control for integration with Reacta-Control wireless installations

#### INSTALLATION

- Suitable for suspended 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
- Available with optional night light

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**IMAGES**

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PRODUCT IMAGES



PROJECT IMAGES



T&C Site Services Ltd using the Graduate LED



The Willows School using the Graduate LED

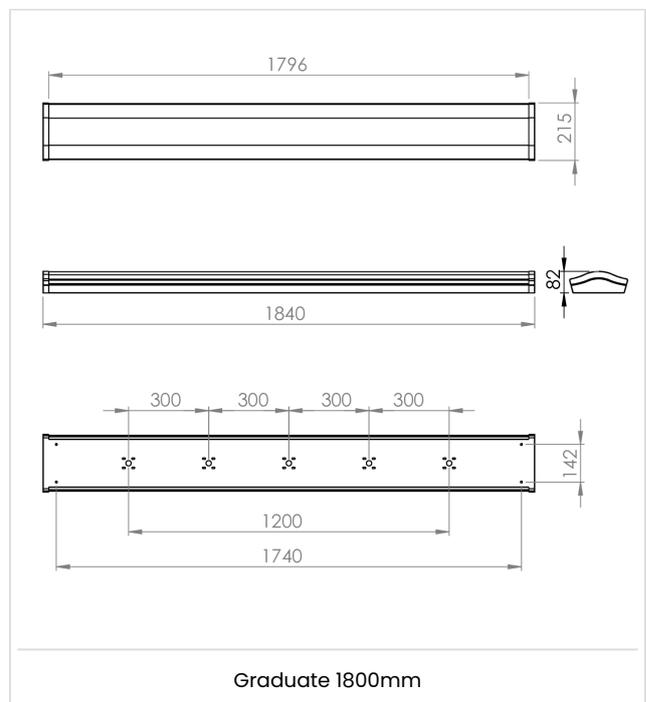
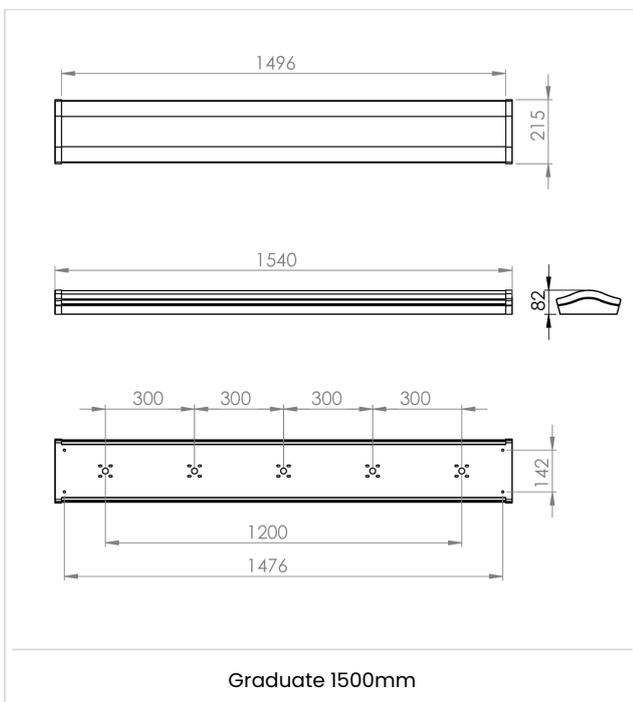
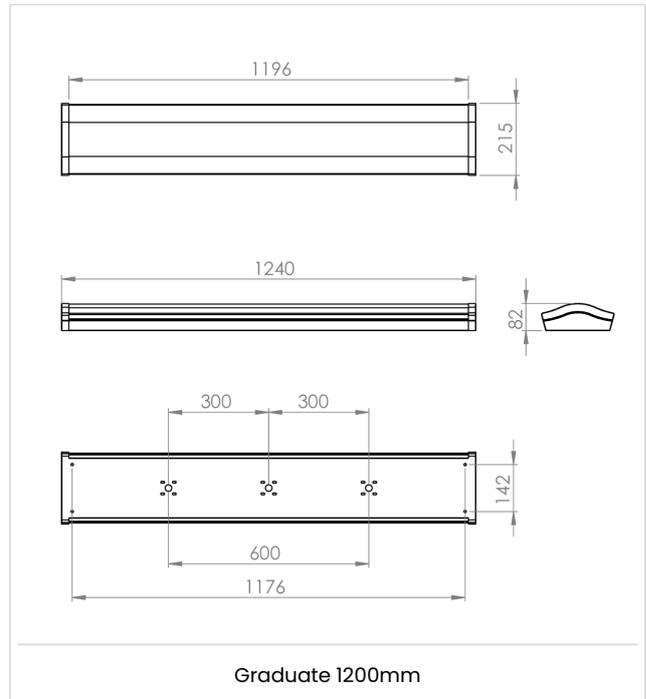
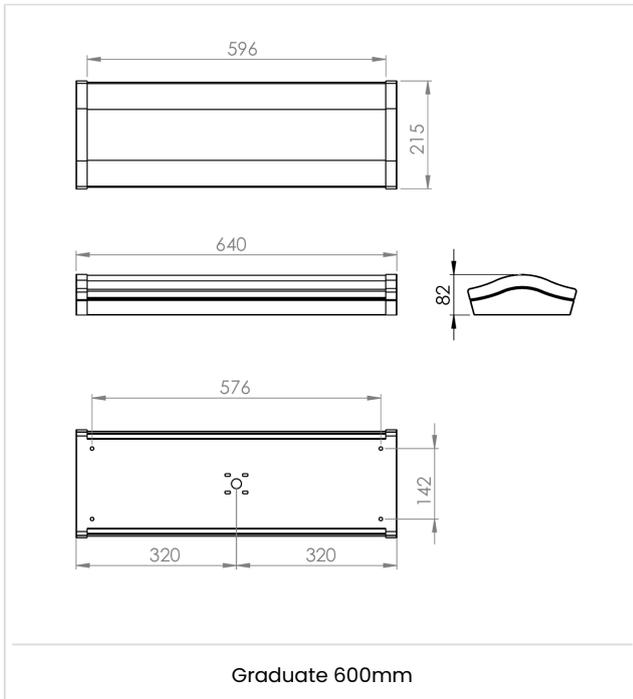


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**TECHNICAL**



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## WARRANTY

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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
GRD L22 OPTPA	Graduate, 600mm, 1,810lm, Opal Diffuser, Colour 84.	13.4W	135
GRD L26 OPTPA	Graduate, 1200mm, 2,139lm, Opal Diffuser, Colour 84.	14.8W	145
GRD L38 OPTPA	Graduate, 1200mm, 3,127lm, Opal Diffuser, Colour 84.	21.6W	145
GRD L87 OPTPA	Graduate, 1200mm, 7,158lm, Opal Diffuser, Colour 84	48.7W	147
GRD L35 OPTPA	Graduate, 1500mm, 2,880lm, Opal Diffuser, Colour 84	20.0W	144
GRD L45 OPTPA	Graduate, 1500mm, 3,703lm, Opal Diffuser, Colour 84	23.2W	160
GRD L54 OPTPA	Graduate, 1500mm, 4,443lm, Opal Diffuser, Colour 84.	29.1W	153
GRD L63 OPTPA	Graduate, 1500mm, 5,184lm, Opal Diffuser, Colour 84.	34.6W	150
GRD L80 OPTPA	Graduate, 1500mm, 6,582lm, Opal Diffuser, Colour 84.	42.1W	156
GRD L96 OPTPA	Graduate, 1500mm, 7,899lm, Opal Diffuser, Colour 84.	51.3W	154
GRD L132 OPTPA	Graduate, 1500mm, 10,861lm, Opal Diffuser, Colour 84	77.8W	140
GRD L45 OPTPA 6FT	Graduate, 1800mm, 3,703lm, Opal Diffuser, Colour 84.	25.7W	144
GRD L65 OPTPA 6FT	Graduate, 1800mm, 5,348lm, Opal Diffuser, Colour 84.	33.5W	160
GRD L90 OPTPA 6FT	Graduate, 1800mm, 7,405lm, Opal Diffuser, Colour 84.	48.1W	154

### DIMMING

Code	Description
A	DALI Digital Addressable Lighting Interface
S	Switch Dimming
D	DSI Digital Dimming
H	HFR Analogue 1-10v
C	Bi-Level Dimming For Standalone Switched Sensor
WT	White Tunable (Lumen Outputs Vary from Standard)

Please click [here](#) for full details on our white tunable offer.

### CONTROL

Code	Description
D44	DexNET Sensor, Wireless, Presence & Daylight, 2.5-5M
DN	DexNET Node, Wireless Node only.
R25E	Reacta 25, Presence & Bright Out, On / Off, 2.5-4M
R25C*	Reacta 25, Presence & Bright Out, Bi-Level Dimming, 2.5-4M
RAS	Reacta-Air Bluetooth, Wireless, Presence & Daylight, 2.5-3M
RLI	Reacta-Link, Wireless Enabled Luminaire
RLS	Reacta-Link Wireless, Presence & Daylight, 2.5M-5M
RLM	Reacta-Link, Wireless, Presence & Bright Out, 2.5-4M
RC	Reacta-Control, Wireless Enabled Luminaire
RCS	Reacta-Control Wireless, Presence & Daylight, 2.5-4M
RCMC*	Reacta-Control, Presence & Bright Out, Bi-level Dimming, 2.5-4M
RCME	Reacta-Control, Presence & Bright Out, On / Off, 2.5-4M

Please click [here](#) for full details on our wireless controls.

\*Bi-Level dimming. Will only dim the luminaire to 10% during absence and bright out, it will not turn the luminaire off unless combined with separate photocell for dusk to dawn operation.

Should a Clear Prismatic TPA Option be required, please refer to the Sales Team.

### EMERGENCY

Code	Description
LE3	Lithium Standard Emergency 3 Hour
LS3	Lithium Selftest Emergency 3 Hour
LA3	Lithium Autotest Emergency 3 Hour
LA3D	Lithium DexNET Emergency 3 Hour
LSTR	Lithium Reacta-Link Emergency 3 Hour
LA3RC	Lithium Reacta-Control Emergency 3 Hour
CB	Central Battery, Please Specify 110V or 230V when Ordering

**MISCELLANEOUS**

Code	Description
C**	Select Colour Temperature and Rendering; C827, C83, C85, C865, C93, C94
SUSP Y KIT 3M BF X2	Two Point Y Suspension Kit
NL	Night Light (Non Emergency Variants Only)
LSF	Low Smoke Zero Halogen
GRD IP40 Gasket	IP40 Gasket

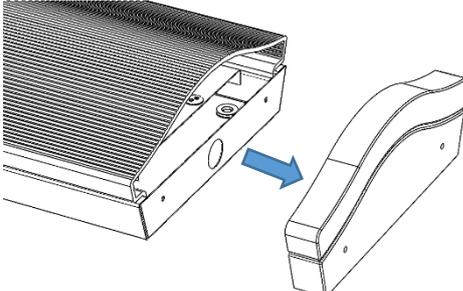
Night light available on request, we recommend the use of Corridor Function dimming in most nightlight applications, however a separate source can be supplied for our highest lumen output variants.

220-240V / 50-60Hz  
IP20/IP40 IK08

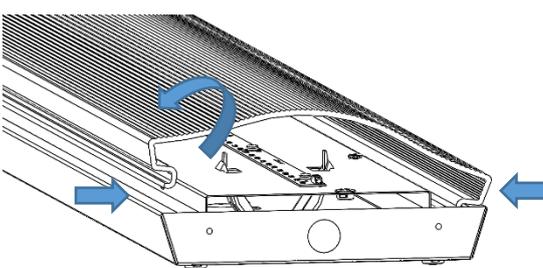


**WARNING:** Luminaire must be earthed. Risk of electric shock from LED boards if operated with cover removed. Installation / operation outside of luminaires intended scope invalidates warranty. Suitable only for domestic / light industrial / industrial applications within the scope of EN55015. Tested 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.

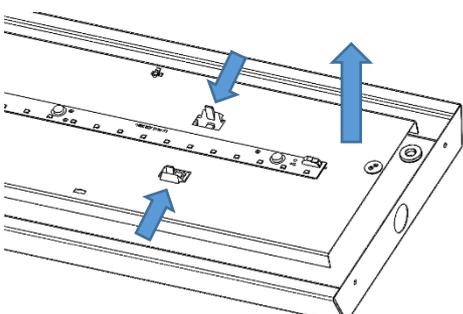
Terminal Labelling:	
<b>Power</b>	
L1	Switched Live
E	Earth
N	Neutral
<b>Emergency</b>	
L2	Unswitched Live
DA/AT3	DALI Autotest
DA/AT3	DALI Autotest
<b>Dimming</b>	
-/D1/DA	Analogue/DSI/DALI
+/D2/DA	Analogue/DSI/DALI
L3	Switch Dim / Corridor Function

1. 

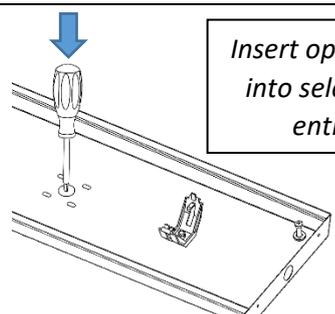
Remove the loose endcaps

2. 

Remove the diffuser from luminaire housing by gently squeezing the diffuser along its length.

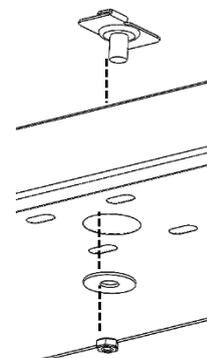
3. 

Remove the gear tray by pressing the mounting clips then lift the tray from the housing.

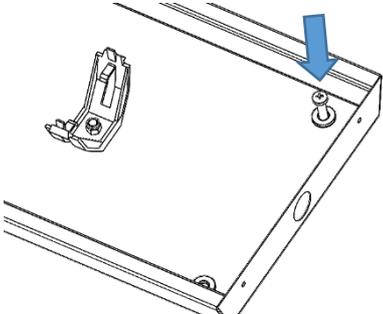
4. 

*Insert open grommet into selected cable entry hole.*

**BESA MOUNT / CABLE ENTRY**  
Use a hammer and screwdriver to tap out the selected BESA or cable entry "semi shear".

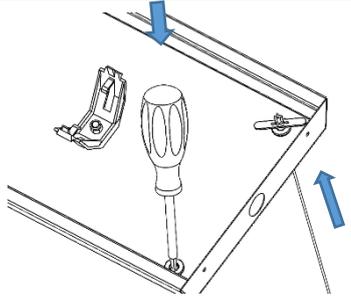
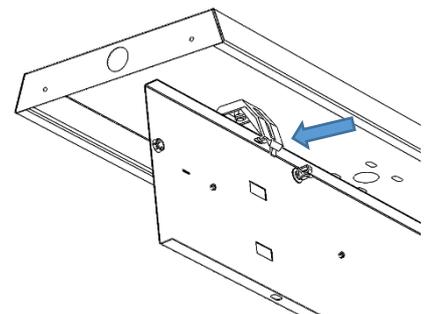
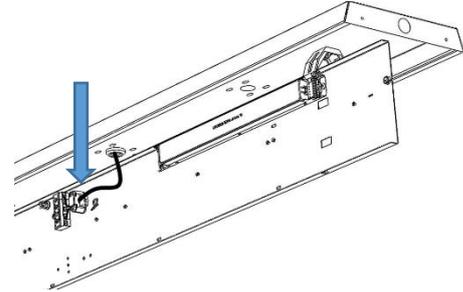
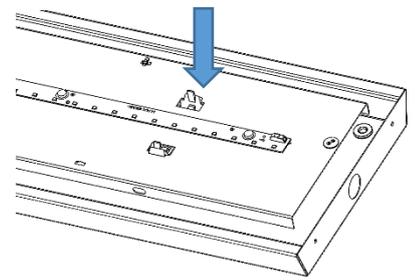
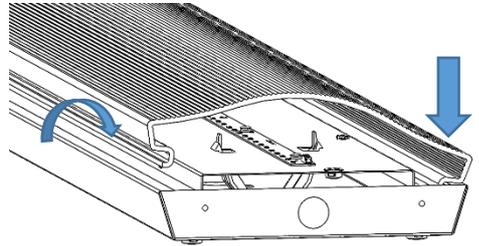
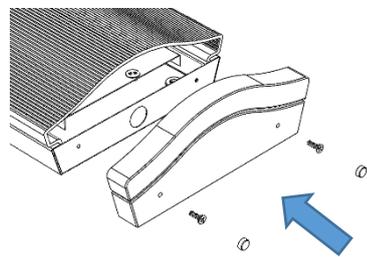
5. 

If mounting to T-Bar using a Britclip ensure penny washer is large enough to cover 20mm hole.

6. 

**SURFACE MOUNT**  
Screw through the centre of the bumper feet

## Graduate Installation

<p>7.</p>  <p><b>SUSPENDED MOUNT</b></p> <p>Pierce the centre of bumper, feet then pass suspension tether through the open centre.</p>	<p>8.</p>  <p>Hang gear tray from the housing mount clips.</p>
<p>9.</p>  <p>Insert grommet into chosen hole. Then bring flex through and connect to the terminal block, clamp flex in place. Use cable clamp kit provided.</p>	<p>10.</p>  <p>Fit the gear tray back onto the housing clips.</p>
<p>11.</p>  <p>Re-fit the diffuser, tuck a long edge under the housing edge. Then flex the other side of the diffuser on to the housing.</p>	<p>12.</p>  <p>Attach endcaps and secure in place with screws provided. Push on the screw cover caps to complete the assembly.</p>
<p><b>Maintenance</b></p> <ol style="list-style-type: none"> <li>① Disconnect luminaire before undertaking any maintenance or cleaning.</li> <li>② Cleaning should be undertaken on external parts of the luminaire only using a slightly damp lint free cloth.</li> <li>③ To access fitting remove cover caps from screws on both endcaps. Use a pan pozi screwdriver to remove screws.</li> <li>④ Remove the diffuser from luminaire housing by gently squeezing the diffuser along its length.</li> <li>⑤ Remove the gear tray by pressing the mounting clips then lift the tray from housing.</li> <li>⑥ Please contact Dextra for assistance with spare component supply.</li> </ol> 