

EDUCATION LIGHTING GUIDE

Lighting Specialists For Every Level of Education

Why Upgrade Your Lighting?

Improved Concentration & Learning Outcomes

Quality lighting supports better focus, reduces eye strain, and helps create an environment conducive to learning.

Enhanced Wellbeing for Students & Staff

Modern lighting can mimic natural daylight, positively impacting mood, energy levels, and overall wellbeing.

Energy Efficiency & Cost Savings

LED technology significantly reduces energy consumption and maintenance costs—freeing up budgets for other priorities.

Compliance with Regulations & Standards

Upgraded lighting ensures compliance with current lighting regulations, including lux levels and emergency lighting requirements.

Future-Proofing with Smart Controls

Integrating daylight sensors, dimming, and presence detection helps optimise energy use and adapt spaces for multi-use environments.

Improved Safety & Security

Well-lit corridors, car parks, and outdoor spaces can reduce accidents and enhance security across your site.

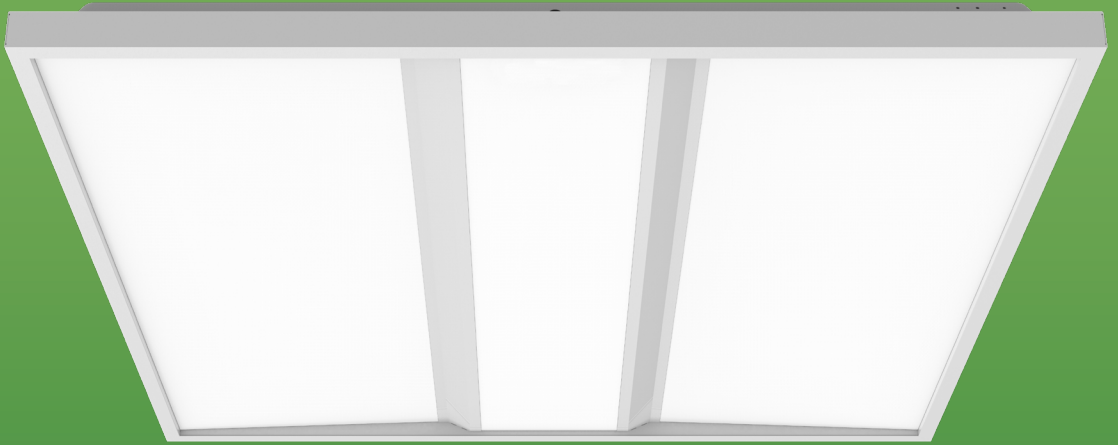
Sustainable & Environmentally Responsible

Lower carbon emissions and longer product lifespans support sustainability targets and demonstrate environmental responsibility.

Circadian rhythm

Supports focus, mood, and sleep by aligning classroom lighting with natural body rhythms—enhancing learning, behaviour, and wellbeing.





“Efficient lighting leads to lower bills and higher performance.”



Cost Effectiveness

LED lighting cuts energy costs and needs little upfront investment.



Maintenance

LEDs last longer, come with hassle-free warranties meaning fewer replacements.



Improved Performance

The right lighting boosts focus, vision, and mood.



Environment

Cut your carbon emissions, benefiting the planet.





Supporting you every step



Dedicated Internal & External ASM's
Ensuring a more personalised service.



Project Sales Engineers
Expert guidance and site surveys.



Customer Service
Technical & support teams providing
the best service.



Next Day Delivery
Order before 4pm for guaranteed same
day dispatch on stocked items.

Contact us

Root3 Lighting ✉ info@rt3group.co.uk ✉ info@rt3group.co.uk ☎ 01493 669574

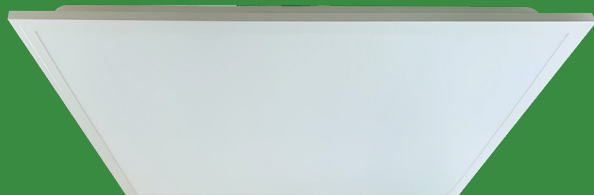
From the largest sports hall to the smallest classroom, from dynamic workshops to bustling reception areas — our lighting solutions ensure the perfect light for every space, every time.



Howden Plus

Suitable for: Corridors/Walkways, Storage Rooms, Entrances, Stairwells

The Howden Plus Bulkhead is a durable, versatile lighting solution featuring a robust body, polycarbonate diffuser, selectable wattage and 3CCT for maximum flexibility in any setting.



Wraysbury

Suitable for: Classrooms, Corridors/Walkways, Offices & Reception Areas.

The Wraysbury backlit panel range offers efficient lighting. Supplied with connectors for easy installation, they include dimmable driver and E-SEL3 options. We have multiple options including Indirect, A-rated Ultra Efficient, UGR & 3CCT.

Olton UGR

Suitable for: Classrooms, Corridors/Walkways, Offices & Receptions.

Specially designed for the educational sector, achieving <19 UGR in classrooms with additional options of self-test emergency and microwave sensors.



CCT Selectable allows you to choose the colour temperature of the light

UGR <19

Indicates low glare lighting suitable for comfortable environments like offices or classrooms.



We have combined manual testing with self-testing to provide versatile and manageable emergency products.



Redbrook

Suitable for: Emergency Exits

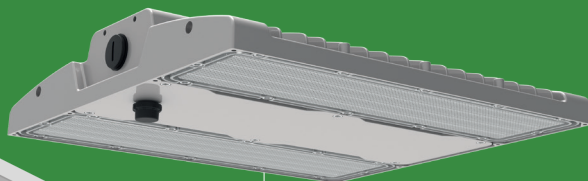
The Redbrook Emergency Exit Box features an E-SEL3 selectable self-test or manual mode and a task light emergency option. Supplied with 4 directional legends and 20mm conduit entries for easy installation, it's backed by a 5-year product and battery warranty.



Belmont

Suitable for: Sports Halls, Gymnasiums & Assembly Halls.

The High Impact Resistant Belmont is a robust Sports High Bay with outstanding performance and low glare. Customise your Belmont with multiple sensor, power and emergency options.



Frankly Plus

Suitable for: Building Illumination, Outdoor areas

The Frankly Plus is a professional-grade exterior floodlight delivering 180 lm/W with A-rated efficiency. Built for harsh environments with IP66 protection and advanced optics it offers durable, high-performance lighting for demanding outdoor applications.



Eyebrook

Suitable for: Corridors/Walkways, Offices, Receptions & Storage Rooms.

The Eyebrook is a versatile and high-performance downlight, featuring interchangeable reflectors and trims that allow for easy customization. Designed with an aluminium heatsink, it delivers excellent thermal management, ensuring long-lasting performance and energy efficiency.





Lighting Colour Temperature Scale

2700K - 3000K

Warm & Inviting

Adds a yellow tint while enhancing reds and oranges

4000K

Efficient & Neutral

Enhances all colours equally

6000K

Vibrant & Attentive

Adds a bluish tint, flattens reds and enhances existing blues



CCT Selectable Correlated Colour Temperature

Products that are CCT Selectable allow you to choose the colour temperature of the light using a switch on the fitting. This lets you adjust the light to suit different rooms or preferences without needing to change the fixture.

The perfect light for every space, every time.

We provide tailored lighting solutions for educational environments, enhancing indoor spaces with efficient, adaptable illumination that supports comfort, focus, and well-being for students and staff.

Classrooms

Corridors/
Walkways

Offices

Workshop/
Science &
Technology

Reception

Storage
Rooms

Sports/
Assembly
Halls

Entrances

Stairwells

Outdoor
Areas

Emergency

Classrooms

Bright, even, & comfortable.

Supporting concentration, reducing eye strain, and adapting to different activities, helping create a productive and engaging learning environment.

Corridors/ Walkways

Consistent & safe.

Ensuring clear visibility for movement through the building and helps maintain a welcoming and secure atmosphere.

Office

Supporting focus & comfortable.

It needs to be bright enough for detailed work while creating a pleasant, professional space for staff and visitors.

Workshop/Science & Technology

Bright & accurate for safety & precision.

Good visibility supports hands-on tasks, helps students stay alert, and reduces the risk of accidents.

Reception

Warm, open, & welcoming.

Good lighting helps create a positive first impression for visitors and supports visibility for staff carrying out administrative tasks.

Storage Room

Practical & functional.

Good lighting provides clear visibility to safely locate and handle materials in spaces with limited natural light.

Sports/Assembly Halls

Adaptable, evenly distributed lighting.

Supporting a range of activities—from sports to performances—ensuring visibility, safety, and an engaging environment for students and audiences.

Entrances

Well-lit to ensure safety & create a welcoming feel.

Proper lighting supports visibility during arrival and departure times and helps make the school more secure and inviting.

Stairwells

Consistent, glare-free lighting for safe movement.

Bright, even lighting helps prevent accidents, supports safety, and ensures clear visibility at all times of day.

Outdoor Area

Visibility, safety, & security.

It's especially important around pathways, play areas, and entrances during darker hours, and can also enhance the overall appearance of the school grounds.

Emergency

Essential for guiding students & staff in the event of an emergency.

It should automatically activate when needed and clearly illuminate exit routes, stairways, and key safety points.



Wraysbury

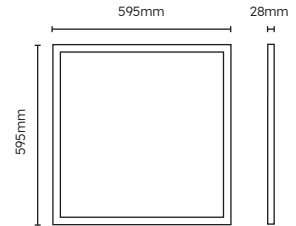
600 x 600 Backlit Panel



- Optic lens for even light distribution
- Better uniformity and heat dissipation
- Flicker free driver



Light Colour Temperature: **4000K**



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
431270	Wraysbury Panel TP (b) - White	30W	3,300	110
431270-MP	Wraysbury Panel TP (b) - White 10x Multipack	30W	3,300	110

OPTION NO.	DESCRIPTION
430147	Ceiling Pattress Kit 600 x 600
430971	Grafham E-SEL3 2W Emergency Pack
430266	Triac Dimmable Driver 18W - 32W
430269	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 24W - 42W 600-1050mA 30-40VDC

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: 0°C - +40°C* Class: 2 Connection Type: Push-Fit Connector

*Emergency Temp: 0°C - 30°C



Wraysbury UGR IP65

600 x 600 Backlit Panel

IP65

Ingress Protection

Flicker Free

Beam Angle 90°

50,000 LED Lifespan L70

Glare Reducing

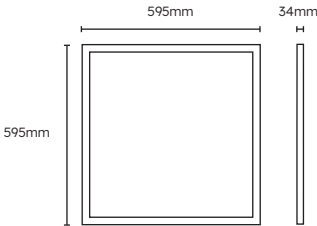
5 YR Product Warranty



- IP65 panel including IP65 driver
- Optic lens for even light distribution
- Better uniformity and heat dissipation
- Flicker free driver
- Microprismatic TP (a) diffuser
- <19 UGR

UGR <19

Light Colour Temperature: 4000K



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
430236	Wraysbury Panel 600 x 600 TP (a) - White	32W	3,525	110

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: 0°C - +40°C* Class: 2 Connection Type: Flying Lead



What is E-SEL3?

E-SEL3 gives the installer the option to select either a Self-Test or Manual emergency function while utilising the latest LiFePO4 battery technology.



Where you see this logo the product benefits from both Self-Test and Manual Test options. We call it 'Emergency Selectable' or E-SEL3 for short.





Above: The Tytherington project includes our Wraysbury 600 x 600 panels – a highly efficient light, perfect for classrooms due to its even light distribution and flicker free driver.

CASE STUDY

Tytherington School

Tytherington School asked us to carry out our free lighting design review to produce a specification for their new site. The school was looking to switch all of their lighting to LED, to reduce their energy costs as well as

their carbon footprint. Completed during the summer holidays, the lights included PIR sensors that turn off when no presence is detected, reducing unnecessary energy usage and lowering energy bills.

“Delighted with the improvement in our lighting and the savings we are seeing year on year.”



Wraysbury UGR

600 x 600 Backlit Panel



Ingress Protection



Flicker Free



Beam Angle



LED Lifespan L70



Glare Reducing



Push-Fit Terminals



Product Warranty



- Optic lens for even light distribution
- Better uniformity and heat dissipation
- Flicker free driver
- Microprismatic TP (a)



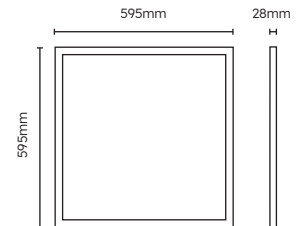
Available with DALI



Selectable emergency option available

UGR <19

Light Colour Temperature: **4000K**



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
431271	Wraysbury Panel UGR TP (a) - White	30W	3,450	115
431271-MP	Wraysbury Panel UGR TP (a) - White 10x Multipack	30W	3,450	115

OPTION NO.	DESCRIPTION
430147	Ceiling Pattress Kit 600 x 600
430971	Grafham E-SEL3 2W Emergency Pack
430266	Triac Dimmable Driver 18W - 32W
430269	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 24W - 42W 600-1050mA 30-40VDC

TECHNICAL INFORMATION

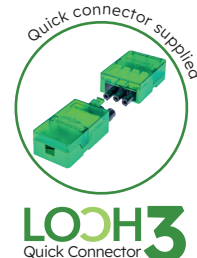
Input: 220-240V AC Operating Temp: 0°C - +40°C* Class: 2 Connection Type: Push-Fit Connector

*Emergency Temp: 0°C - 30°C



Wraysbury UGR 3CCT

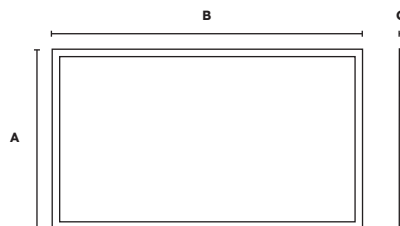
600 x 600 & 1200 x 600 Backlit Panel



- Optic lens for even light distribution
- Better uniformity and heat dissipation
- Flicker free driver
- Microprismatic TP (a) diffuser
- CCT Switch for colour selection



Light Colour Temperature: 3CCT



PART NO.	DESCRIPTION	A	B	C	WATTS	LUMENS**	LM/W
431272	Wraysbury Panel UGR 600 x 600 TP (a) - White	595mm	595mm	28mm	28W	3,350	120
431274	Wraysbury Panel UGR 1200 x 600 TP (a) - White	595mm	1195mm	34mm	48W	5,750	120

OPTION NO.	DESCRIPTION
430147	Ceiling Pattress Kit 600 x 600
430148	Ceiling Pattress Kit 1200 x 600
430971	Grafham E-SEL3 2W Emergency Pack
430266	Triac Dimmable Driver 18W - 32W
430269	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 24W - 42W 600-1050mA 30-40VDC
430270	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 42W-60W 1050-1500mA 30-40VDC

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: 0°C - +40°C * Class: 2 Connection Type: Quick Connector

*Emergency Temp: 0°C - 30°C **Lumens based on 4000K



Wraysbury UGR Indirect

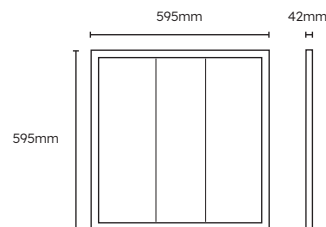
600 x 600 Indirect Panel



- Flicker free driver
- Optic lens for even light distribution
- Microprismatic TP (a) diffuser



Light Colour Temperature: 4000K



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
430060	Wraysbury Panel UGR TP (a) - White	30W	3,450	115

OPTION NO.	DESCRIPTION
430971	Grafham E-SEL3 2W Emergency Pack
430266	Triac Dimmable Driver 18W - 32W
430269	Multi Dimmable Driver (Push Dim, 0-10V & DALI2) 24W - 42W 600-1050mA 30-40VDC

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: 0°C - +40°C Class: 2 Connection Type: Quick Connector

*Emergency Temp: 0°C - 30°C



Wraysbury UGR Plus

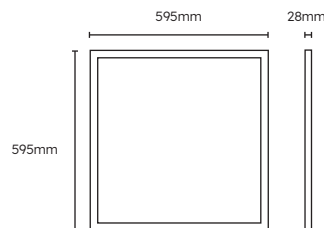
600 x 600 Panel



- **High efficiency, 175 lumens per watt**
- Optic lens for even light distribution
- Better uniformity and heat dissipation
- Microprismatic TP (a) diffuser
- Flicker free driver



Light Colour Temperature: **4000K**



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
431273	Wraysbury Plus Panel 600 x 600 TP (a) - White	18W	3,150	175

OPTION NO.	DESCRIPTION
430147	Ceiling Pattress Kit 600 x 600
430971	Grafham E-SEL3 2W Emergency Pack
430265	Triac Dimmable Driver 10W - 24W
430268	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 8W - 22W 200-550mA 30-40VDC

TECHNICAL INFORMATION

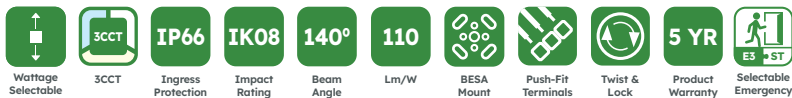
Input: 220-240V AC Operating Temp: 0°C - +40°C Class: 2 Connection Type: Quick Connector

*Emergency Temp: 0°C - 30°C



Hatherton

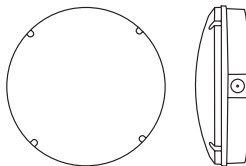
Wattage & 3CCT Selectable Multi Bulkhead



- Standard, step dim microwave sensor and emergency options available
- Tough and durable body with polycarbonate diffuser
- Wall and ceiling mount
- LED lifespan 60,000 hours L70
- x4 20mm conduit entry points



Light Colour Temperature: 3CCT



W: 300mm H: 300mm D: 92mm

PART NO.	DESCRIPTION	WATTS	LUMENS**	LM/W
431132	Hatherton Multi Bulkhead	12W/16W/18W	1,450/1,800/1,950	110

OPTION NO.	DESCRIPTION
430963	Grafham Emergency Module
430963-E3	Grafham E-SEL3 Selectable Emergency Module
431127	Alwen 2 in 1 Step Dim Microwave Sensor Module

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: -20°C - +40°C* Class: 1 Connection Type: Push Terminal

*Emergency: 0°C - 30°C **Lumens based on 4000K



OPTION NO. DESCRIPTION

401588	Clip on Full Bezel - White
401589	Clip on Full Bezel - Black
401598	Clip on Grill Bezel - Black
401595	Clip on Decorative Bezel - Black
401592	Clip on Eyelid Bezel - Black



Emergency Module
Part No. 430963



**Microwave Step
Dim Sensor Module**
Part No. 431127



Full
White
Part No. 401588
Black
Part No. 401589



Grill
Part No.
401598



Decorative
Part No.
401595



Eyelid
Part No. 401592



Howden Plus

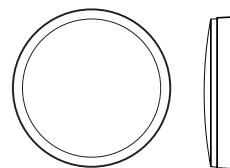
Wattage & 3CCT Selectable Bulkhead



- Tough and durable polycarbonate housing
- Push-fit terminals with loop in and loop out
- 300lm emergency option
- IK08 impact rated
- X4 20mm conduit entry points
- Ideal for stairwells



Light Colour Temperature: 3CCT



W: 450mm H: 450mm D: 90mm

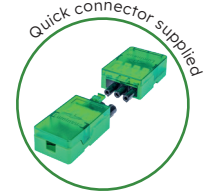
PART NO.	DESCRIPTION	WATTS	LUMENS**	LM/W
431770	Howden Plus Bulkhead	18W/22W/26W/30W	2,350/2,850/3,375/3,900	130

OPTION NO.	DESCRIPTION
430962	Grafham E-SEL3 Selectable Emergency Module
431346	Alwen Linear Microwave/Step Dim Plug & Play Sensor
430904	Remote Control
-DA	DALI
431771	Howden Plus Black Bezel

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: -20°C - +40°C* Class: 2 Connection Type: Push Terminal

*Emergency: 0°C - 30°C **Lumens based on 4000K



LOCH3
Quick Connector



Weston

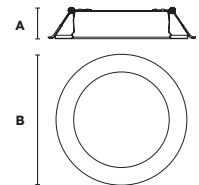
Backlit Downlight



- Tough powder-coated steel body with polycarbonate TP (a) diffuser
- Stainless steel spring clips
- Flicker Free
- LED lifespan 70,000 hours L70
- Loch3 Quick Connector supplied



Dome Light Colour Temperature: **4000K**



PART NO.	DESCRIPTION	A	B	WATTS	LUMENS**	LM/W	
430725	Weston Backlit Downlight TP (a) - White	30mm	90mm	7W	700	110	75mm
430726	Weston Backlit Downlight TP (a) - White	30mm	120mm	10W	1,100	110	95mm
430727	Weston Backlit Downlight TP (a) - White	30mm	145mm	15W	1,650	110	115mm
430726	Weston Backlit Downlight TP (a) - White	30mm	185mm	20W	2,200	110	155mm
430727	Weston Backlit Downlight TP (a) - White	37mm	220mm	24W	2,650	110	180mm

OPTION NO.	DESCRIPTION
430971	Grafham E-SEL3 2W Emergency Pack
430265	Triac Dimmable Driver 10W - 24W
430268	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 8W - 22W 200-550mA 30-40VDC
430269	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 24W - 42W 600-1050mA 30-40VDC

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: 0°C - +45°C* Class: 2 Connection Type: Quick Connector

*Emergency: 0°C - 30°C



Eyebrook

Lens Downlight

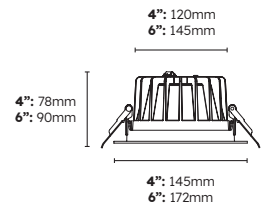


- Interchangeable reflectors and trims.
- Aluminium heatsink provides excellent thermals
- High efficiency up to 130 lm/W



UGR <19

Lens Light Colour Temperature: **4000K**



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W	
430206	Eyebrook Lens Downlight UGR Semi-Specular 60° 4" - White	13W	1,700	130	130mm
430207	Eyebrook Lens Downlight UGR Semi-Specular 60° 6" - White	18W	2,350	130	155mm
430208	Eyebrook Lens Downlight UGR Semi-Specular 60° 6" - White	25W	3,000	120	155mm
430209	Eyebrook Lens Downlight UGR Semi-Specular 60° 6" - White	35W	3,850	110	155mm

OPTION NO.	DESCRIPTION
430971	Grafham E-SEL3 2W Emergency Pack
430265	Triac Dimmable Driver 10W - 24W
430268	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 8W - 22W 200-550mA 30-40VDC

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: -20°C - +45°C* Class: 2 Connection Type: Flying Lead

*Emergency: 0°C - 30°C



OPTION NO. DESCRIPTION

430211	4" Reflector Specular
430212	4" Reflector - Black
430213	4" Reflector - White
430258	4" Reflector - Silver
430545	4" Reflector - Copper
430214	6" Reflector Specular
430215	6" Reflector - Black
430216	6" Reflector - White
430259	6" Reflector - Silver
430546	6" Reflector - Copper
430217	4" Bezel Black
430218	6" Bezel Black
430219	4" Trim Anti-Tamper
430220	4" Trim Drop Glass
430221	4" Trim Halo
430222	6" Trim Anti-Tamper
430223	6" Trim Drop Glass
430224	6" Trim Halo
430210	6" to 8" Extender





Tunstall

Wattage Selectable Downlight



Wattage
Selectable



3CCT



Glare
Reducing



Ingress
Protection



CRI



Beam
Angle



Product
Warranty

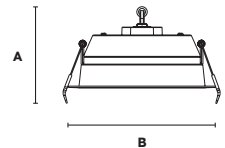
- Low glare lens design
- Selectable wattage via driver
- Easy installation



Selectable emergency
option available

UGR <19

Light Colour Temperature: 3CCT



PART NO.	DESCRIPTION	A	B	WATTS	LUMENS**	LM/W	
430695	Tunstall 4" Dual Wattage Downlight White	55mm	120mm	6W/8W	600/800	100	105mm
430696	Tunstall 6" Dual Wattage Downlight White	69mm	170mm	10W/15W	1,000/1,500	100	150mm
430697	Tunstall 8" Dual Wattage Downlight White	79mm	230mm	20W/30W	2,000/3,000	100	210mm

OPTION NO. DESCRIPTION

430971	Grafham E-SEL3 2W Emergency Pack
430268	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 8W - 22W 200-550mA 30-40VDC
430269	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 24W - 42W 600-1050mA 30-40VDC
430265	Triac Dimmable Driver 10W - 24W
430266	Triac Dimmable Driver 18W - 32W

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: -30°C - +45°C* Class: 1 Connection Type: Flying Lead

*Emergency: 0°C - 30°C **Lumens based on 4000K

Blakeley

Pendant Light

IP42

 Ingress
Protection

100°

 Beam
Angle

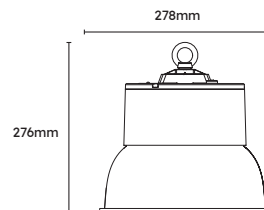
50,000

 LED Lifespan
L70

5 YR

 Product
Warranty


- Compact modern cylindrical mounted design
- Easy installation
- Low glare polycarbonate shroud


 Light Colour Temperature: **4000K**


PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
430684	Blakeley Retail Pendant - White	30W	4,200	140
430686	Blakeley Retail Pendant - White	75W	10,500	140

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: -30°C - +40°C Class: 1 Connection Type: Flying Lead



Above & Left: We installed over 650 luminaires across the site, all fitted with a variety of sensors and controls to maximise the energy saving. Our truSmart Battens and Troffers are equipped with daylight sensors, PIRs, and a Bluetooth mesh system as standard. The system is controlled via an app providing customisable light levels when needed, whilst allowing for the maximum energy savings to be felt throughout the key areas of this project.

CASE STUDY

Sixth Form College

This project was in a large sixth form college located in inner-city London. This college understood the importance of lighting in providing a comfortable, yet vibrant, environment to support the focus

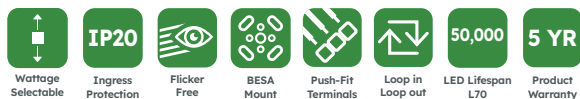
and general wellbeing of staff and pupils. Our key objectives were to improve the existing lighting levels and reduce the college's energy usage – without compromising comfort or concentration levels.

“Reduced energy consumption by 87,000 KWh per year. That’s a saving of £20,000”



Olton UGR

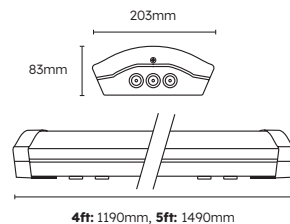
Wattage Selectable Academic Batten



- UGR Opal, ribbed polycarbonate diffuser to reduce glare
- Switchable dual wattage batten
- Robust steel body construction
- Multi 20mm conduit entry
- Self-test emergency available
- High output self-test emergency available

UGR <21

Light Colour Temperature: **4000K**



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
430817	Olton UGR 4ft Dual Wattage - White	20W/38W	2,400/ 4,550	120
430818	Olton UGR 5ft Dual Wattage - White	30W/58W	3,600/ 6,950	120

OPTION NO.	DESCRIPTION
-E3	High Output Emergency
-MW	Microwave
-E3-MW	High Output Emergency & Microwave
401755	Remote Control

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: 0°C - +45°C* Class: 1 Connection Type: Push Terminal

*Emergency Temp: 0°C - 30°C

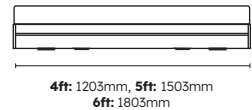
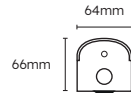


Holywell Plus

Wattage and 3CCT Selectable Batten



- Wattage Selectable
- Unique opal diffuser design for optimum performance and light distribution
- Steel body construction with powder coat finish
- Conduit entry points at both ends
- Suitable for central BESA mounting
- Additional screw to secure end cap
- High efficiency 160 lm/W



Light Colour Temperature: 3CCT



PART NO.	DESCRIPTION	WATTS	LUMENS**	LM/W
431291	Holywell 4ft Wattage Selectable - White Plug & Play	18W/36W	2,900/5,750	160
431292	Holywell 5ft Wattage Selectable - White Plug & Play	25W/50W	4,000/8,000	160
431293	Holywell 6ft Wattage Selectable - White Plug & Play	28W/56W	4,500/8,975	160

OPTION NO. DESCRIPTION

430962	Grafham E-SEL3 Selectable Emergency Module
430916	Alwen On/Off Microwave Sensor Module
401752	Alwen PIR Batten Mount Sensor
401755	PIR Sensor Remote Control
-DA	DALI

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: 0°C - +40°C* Class: 1 Connection Type: Push Terminal

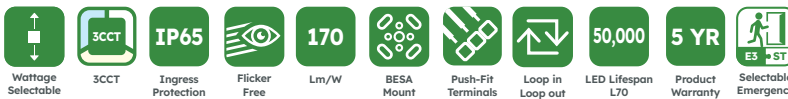
*Emergency: 0°C - 30°C **Lumens based on 4000K



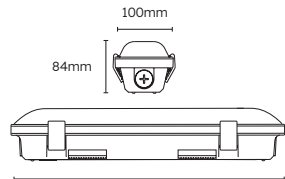


Typhoon 3CCT

Anti-Corrosive Single & Twin Output



- Unique opal diffuser design for optimum performance and light distribution
- Conduit entry points at both ends
- Suitable for central BESA mounting
- Pre-threaded M20 cable entry



Light Colour Temperature: 3CCT



PART NO.	DESCRIPTION	WATTS	LUMENS**	LM/W
431317	Typhoon Anti-Corrosive 4ft Wattage Selectable Plug & Play	18W/36W	3,050/6,125	170
431318	Typhoon Anti-Corrosive 5ft Wattage Selectable Plug & Play	25W/50W	4,250/8,500	170
431319	Typhoon Anti-Corrosive 6ft Wattage Selectable Plug & Play	28W/56W	4,750/9,500	170

OPTION NO.	DESCRIPTION
430962	Grafham E-SEL3 Selectable Emergency Module
430916	Alwen On/Off Microwave Sensor Module
-DA	DALI

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: -30°C - +40°C* Class: 1 Connection Type: Push Terminal

*Emergency: 0°C - 30°C **Lumens based on 4000K



Typhoon

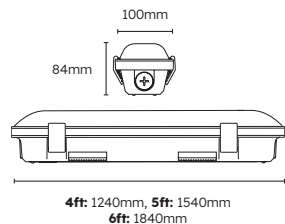
Anti-Corrosive Single & Twin Output



- Unique opal diffuser design for optimum performance and light distribution
- Conduit entry points at both ends
- Suitable for central BESA mounting
- Pre-threaded M20 cable entry



Light Colour Temperature: **4000K**



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
431310	Typhoon Anti-Corrosive 4ft Single Plug & Play	19W	3,050	160
431312	Typhoon Anti-Corrosive 5ft Single Plug & Play	20W	3,200	160
431314	Typhoon Anti-Corrosive 6ft Single Plug & Play	30W	4,800	160
431311	Typhoon Anti-Corrosive 4ft Twin Plug & Play	30W	4,800	160
431313	Typhoon Anti-Corrosive 5ft Twin Plug & Play	43W	6,875	160
431315	Typhoon Anti-Corrosive 6ft Twin Plug & Play	50W	8,000	160

OPTION NO.	DESCRIPTION
430962	Grafham E-SEL3 Selectable Emergency Module
430916	Alwen On/Off Microwave Sensor Module
-DA	DALI

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: -30°C - +40°C* Class: 1 Connection Type: Push Terminal

*Emergency Temp: 0°C - 30°C



Tempest

Wattage and 2CCT Selectable Anti-Corrosive



2CCT



Ingress Protection



Flicker Free



Lm/W



BESA Mount



Push-Fit Terminals



Loop in Loop out



LED Lifespan L70



Product Warranty



Selectable Emergency



A

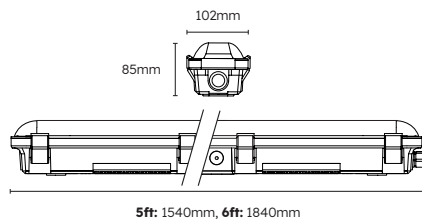
Ultra Efficient

- 185lm/W output performance
- Opal Diffuser
- Wattage Selectable and 2CCT
- Pre-threaded M20 cable entry
- Designed for easy and rapid installation



Selectable emergency option available

Light Colour Temperature: 2CCT



PART NO.	DESCRIPTION	WATTS	LUMENS**	LM/W
431341	Tempest Anti-Corrosive 5ft Wattage Selectable Plug & Play	26W/46W	4,800/8,275	185
431342	Tempest Anti-Corrosive 6ft Wattage Selectable Plug & Play	33W/62W	6,100/11,150	185

OPTION NO.	DESCRIPTION
430962	Grafham E-SEL3 Selectable Emergency Module
431346	Alwen Linear Microwave/Step Dim Plug & Play Sensor
430904	Remote Control
-DA	DALI

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: -20°C - +45°C* Class: 1 Connection Type: Push Terminal

*Emergency: 0°C - 30°C **Lumens based on 4000K



Tempest

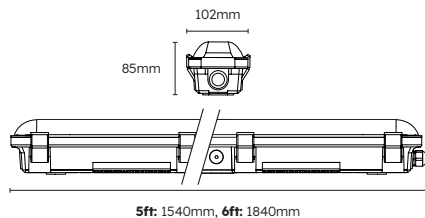
High Output Anti-Corrosive



- 180lm/W output performance
- Opal Diffuser
- Pre-threaded M20 cable entry
- Designed for easy and rapid installation



Light Colour Temperature: 5000K



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
431343	Tempest Anti-Corrosive 5ft High Output Plug & Play	70W	12,600	180
431344	Tempest Anti-Corrosive 6ft High Output Plug & Play	78W	14,050	180

OPTION NO.	DESCRIPTION
430962	Grafham E-SEL3 Selectable Emergency Module
431346	Alwen Linear Microwave/Step Dim Plug & Play Sensor
430904	Remote Control
-DA	DALI

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: -20°C - +45°C* Class: 1 Connection Type: Push Terminal

*Emergency Temp: 0°C - 30°C



Rydal

Wattage & 3CCT Selectable Asymmetric Wallpack

Wattage
Selectable

3CCT

IP65
Ingress
Protection

IK10
Impact
Rating

150
Lm/W

80
CRI

60,000
LED Lifespan
L70

BESA
Mount

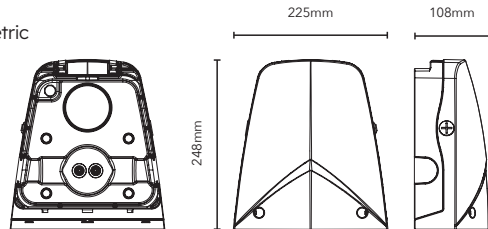
5 YR
Product
Warranty



- Dusk to Dawn sensor option built in as standard
- Hinged front provides quick access & ease of installation
- Product can be wall mounted over a standard round BESA box, providing efficient & secure dual sided conduit cable entry points
- Rydal wallpack is designed to reduce light pollution using Asymmetric optics, perfect for outdoor lighting
- Asymmetric optic - 70° x 140°
- No upward light, Reducing light pollution



Light Colour Temperature: 3CCT



PART NO.	DESCRIPTION	WATTS	LUMENS**	LM/W
431139	Rydal Wallpack - Black	15W/22W/30W	2,250/3,300/4,500	150

OPTION NO.	DESCRIPTION
-E3	E-SEL3 Emergency***

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: -20°C - +45°C* Class: 1 Connection Type: Push Terminal

*Emergency: 0°C - 30°C **Lumens based on 4000K ***Available July 2025

Frankly Plus

Floodlight - Asymmetric

IP66

IK08

180

70

60,000

5 YR

Ingress Protection

Impact Rating

Lm/W

CRI

LED Lifespan L70

Product Warranty

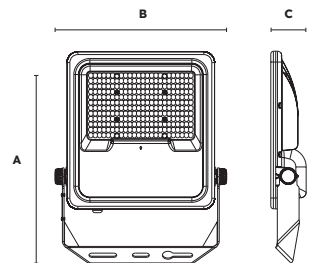
A

A

Ultra Efficient

- Asymmetric optic - 50° x 120° P55D
- Supplied with 1.5M prewired H05RN-F cable
- Angled bracket for ease of installation
- 6kVA L/N-PE surge protection
- Diecast aluminium body
- Breather valve to prevent condensation

Light Colour Temperature: 4000K



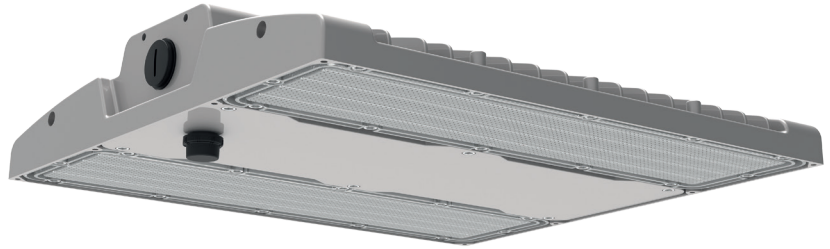
PART NO.	DESCRIPTION	A	B	C	WATTS	LUMENS	LM/W
430974	Frankly Plus Floodlight Black	344mm	269mm	65mm	50W	9,000	180
430975	Frankly Plus Floodlight Black	390mm	317mm	65mm	75W	13,500	180
430976	Frankly Plus Floodlight Black	390mm	317mm	65mm	100W	18,000	180
430977	Frankly Plus Floodlight Black	420mm	349mm	65mm	150W	27,000	180
430979	Frankly Plus Floodlight Black	459mm	387mm	65mm	200W	36,000	180
430980	Frankly Plus Floodlight Black	499mm	441mm	70mm	240W	43,000	180
430981	Frankly Plus Floodlight Black	499mm	441mm	70mm	300W	54,000	180

OPTION NO. DESCRIPTION

-DD Dusk to Dawn (50W, 75W, 100W, 150W and 200W only)

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: -30°C - +45°C Cable Length: 1.5m H05RN-F cable Class: 1 Connection Type: Flying Lead



Belmont

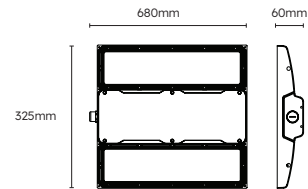
Linear High Bay - Zhaga Plug & Play



- Fresnel optics for improved glare control
- Tough, impact resistant IK10 housing
- Plug & Play Options



Light Colour Temperature: 5000K



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
431191-85	Belmont Linear High Bay 85° Optic - Grey	100W/120W/150W	18,000/21,600/27,000	180

OPTION NO.	DESCRIPTION
430964	Grafham Linear High Bay E-SEL3 Emergency
401754	Remote Control for PIR/Microwave Sensor
430568	Alwen Zhaga Plug & Play PIR Sensor
430569	Alwen Zhaga Plug & Play Microwave Sensor
430625	Crown Zhaga Plug & Play truSmart PIR Sensor
430243	Belmont 60° Rotatable Bracket (pair)

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: -30°C - +50°C* Class: 1 Connection Type: 1.5M Flying Lead

*Emergency: 0°C - 30°C



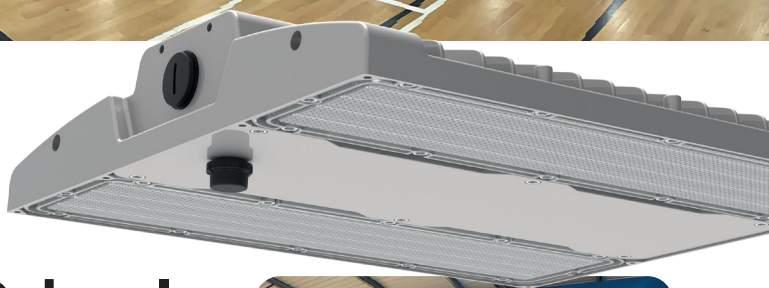
CASE STUDY

Philips High School

The Sports Hall at Philips High School has been transformed with the introduction of the 120W Belmont Linear High Bay. It's

tough and durable, impact resistant housing is perfect for the environment, whilst having a flicker-free driver with an IK10 impact rating.

"It's tough and durable, impact resistant housing is perfect for the environment"





Is your Emergency Lighting up to Standard?

We offer a full and free survey on emergency lighting, ensuring your safety lighting fits your needs and meets the latest regulations. All of our emergency fittings now come with E-SEL3 selectable emergency fitted as standard - this gives the installer the option to select either a Self-Test or Manual emergency function. Offering flexibility, easier maintenance, and better compliance, Self-test saves time and labour by automatically checking for faults, Manual mode gives full control when needed. Reliable, cost efficient options for busy maintenance staff.





Self-adhesive
legend kit
included



Darwell

Emergency Bulkhead



Ingress
Protection



Push-Fit
Terminals



Battery
Warranty



Product
Warranty



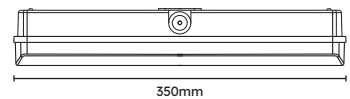
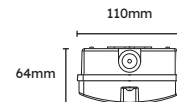
Selectable
Emergency



Long life Lithium
Battery inside

- Switchable Emergency - Self-Test / Manual
- Maintained / Non-maintained
- Multiple 20mm conduit entry points
- Loop in / Loop out terminals

Light Colour Temperature: **6500K**



PART NO.	DESCRIPTION	WATTS	LUMENS
430950	Darwell Emergency E-SEL3 Emergency Bulkhead	4W	250

Emergency: 1.5W @ 160lm

EMERGENCY INFORMATION

Battery Type: LifePO4 **Battery Capacity:** 1500mAh **Emergency Duration:** Minimum 3 Hours **Emergency Type:** Maintained/Non-Maintained

TECHNICAL INFORMATION

Input: 220-240V AC **Operating Temp:** 0°C - +30°C **Class:** 2 **Connection Type:** Push Terminal



Draycote

Emergency Twin Spot



Ingress
Protection



Push-Fit
Terminals



Battery
Warranty



Product
Warranty



Selectable
Emergency

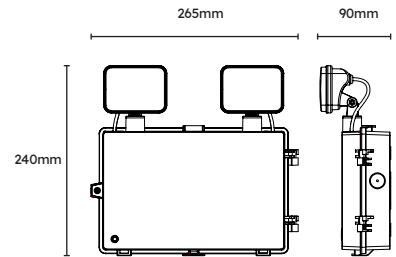


Long life Lithium
Battery inside



- Black/White polycarbonate body
- E-SEL3 Self-Test and Manual Switchable via dip-switch
- 360° Directional Heads
- Non-maintained only
- 20mm conduit entry - Side, Base & Rear
- Loop in / Loop out terminals

Light Colour Temperature: 6500K



PART NO.	DESCRIPTION	WATTS	LUMENS
430951-BL	Draycote Twin Spot - Black	4W	600
430951-WH	Draycote Twin Spot - White	4W	600

EMERGENCY INFORMATION

Battery Type: LifePO4 Battery Capacity: 7200mAh Emergency Duration: 3 Hours Emergency Type: Non-maintained

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: 0°C - +30°C Class: 2 Connection Type: Push Terminal

E-SEL3

Redbrook

Emergency Exit Box

IP20

Ingress
Protection

5 YR

Battery
WarrantyPush-Fit
Terminals

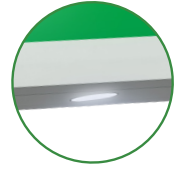
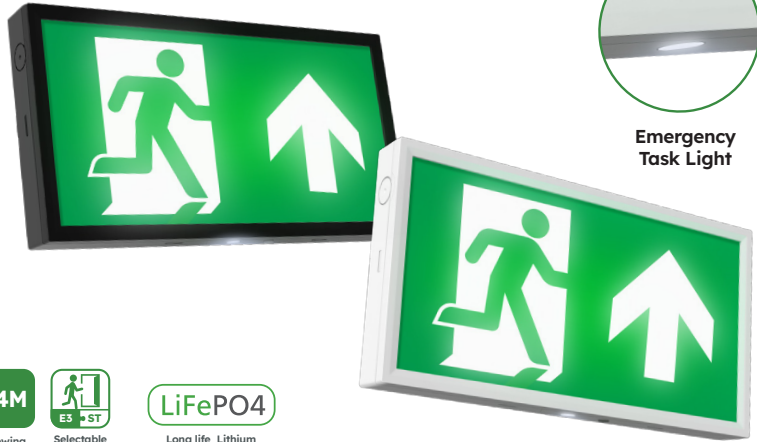
5 YR

Product
Warranty

24M

Viewing
DistanceSelectable
Emergency

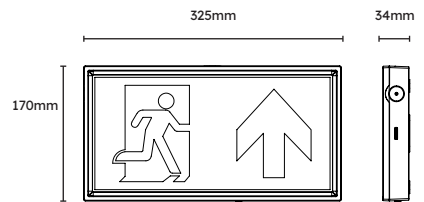
LiFePO4

Long life Lithium
Battery insideEmergency
Task Light

- 20mm conduit entry on sides, rear & top
- E-SEL3 Manual / Self Test selection inside
- Included in Box 4 legends, up, down, left & right (ISO7010 Legends as Standard)

Light Colour Temperature: 6500K

6500K



PART NO.	DESCRIPTION	WATTS	LUMENS
430952-BL	Redbrook Emergency Exit Box - Black	3.5W	25
430952-WH	Redbrook Emergency Exit Box - White	3.5W	25

Emergency: 90lm

EMERGENCY INFORMATION

Battery Type: LifePO4 **Battery Capacity:** 1600mAh **Emergency Duration:** 3 Hours **Emergency Type:** Maintained

TECHNICAL INFORMATION

Input: 220-240V AC **Operating Temp:** 0°C - +30°C **Class:** 2 **Connection Type:** Push Terminal



Fontburn

5 in 1 Emergency Exit Sign

IP20

Ingress Protection

5 YR

Battery Warranty

5 YR

Product Warranty

24M

Viewing Distance



Selectable Emergency

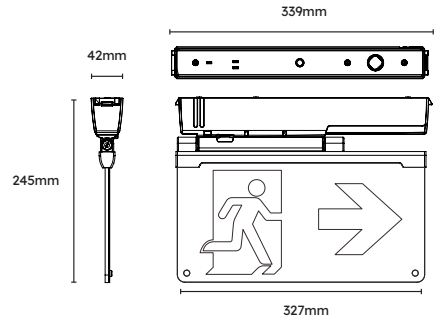
LiFePO4

Long life Lithium Battery inside

- White/Black polycarbonate body with polycarbonate legends
- Maintained
- E-SEL3 Manual / Self Test selection inside
- Included in Box: 3 Legends for changing (UP/LEFT and RIGHT)

Light Colour Temperature: **6500K**

6500K



PART NO.	DESCRIPTION	WATTS	LUMENS
430953-BL	Fontburn Emergency Exit Sign - Black	2.5W	45
430953-WH	Fontburn Emergency Exit Sign - White	2.5W	45
			Emergency: 18lm
OPTION NO.	DESCRIPTION		
430944	Down Legend Set		
430956	Emergency Sign Track Adaptor		

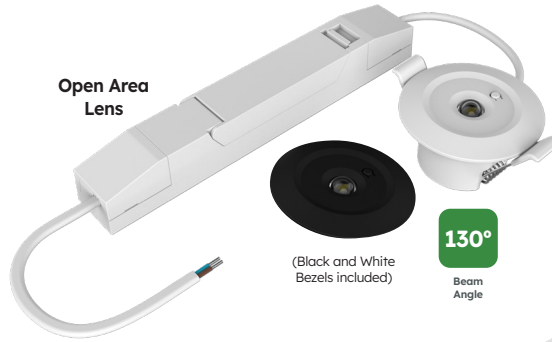


EMERGENCY INFORMATION

Battery Type: LiFePO4 Battery Capacity: 1500mAh Emergency Duration: 3 Hours Emergency Type: Maintained/Non-maintained

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: 0°C - +30°C Class: 2 Connection Type: Push Terminal



Woodhead

Emergency Downlight

IP20

Ingress
Protection

5 YR

Battery
Warranty

5 YR

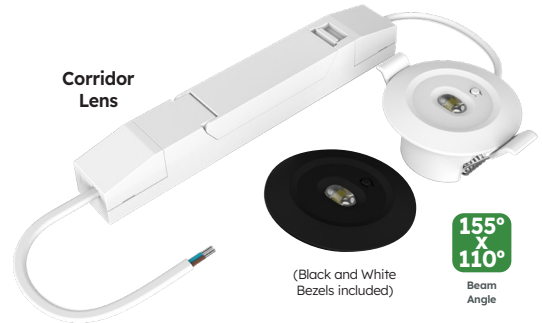
Product
Warranty



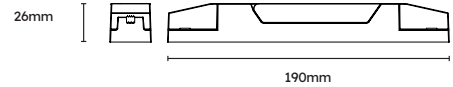
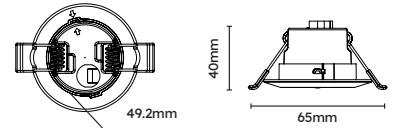
Selectable
Emergency

LiFePO4

Long life Lithium
Battery inside



- Black and White Bezel included
- LifePO4 battery
- E-SEL3 Manual / Self-Test selection inside
- Non-Maintained
- Recessed installation



Light Colour Temperature: **6500K**



PART NO.	DESCRIPTION	WATTS	LUMENS	
430958	Woodhead Emergency Downlight Open Area	1W	100	50mm
430959	Woodhead Emergency Downlight Corridor	1W	100	50mm

Emergency: 90lm

EMERGENCY INFORMATION

Battery Type: LifePO4 Battery Capacity: 1600mAh Emergency Duration: 3 Hours Emergency Type: Non-Maintained

TECHNICAL INFORMATION

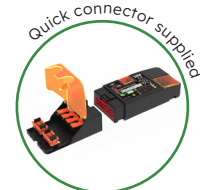
Input: 220-240V AC Operating Temp: 0°C - +30°C Class: 2 Connection Type: Flying Lead



truSmart
intelligent controls

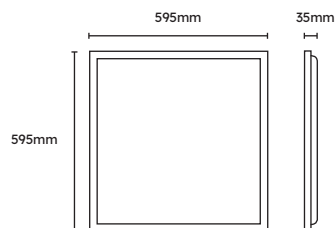
Snowdon

600 x 600 Backlit Smart Panel



- Built in PIR/Daylight Sensor
- Optic lens for even light distribution
- Control/Group via the truSmart App
- Flicker free driver
- Wireless control
- Microprismatic TP (a) diffuser

UGR <19



Light Colour Temperature: **4000K**



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
440100	truSmart Snowdon Backlit Smart Panel 600 x 600 TP (a) - White	24W	3,600	150

Light Colour Temperature: **Tunable**



440101	truSmart Snowdon Backlit Smart Panel (Tunable) 600 x 600 TP (a) - White	24W	3,600	150
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OPTION NO. DESCRIPTION

430147	Ceiling Pattress Kit
440028	truSmart E-SEL3 Emergency Pack Single Colour
440029	truSmart E-SEL3 Emergency Pack Tunable Colour
440019	4 Button Scene Switch

TECHNICAL INFORMATION

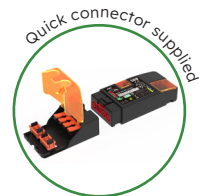
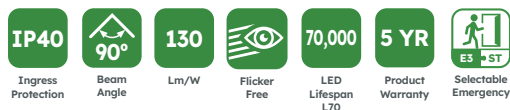
Input: 220-240V AC Operating Temp: 0°C - +40°C Class: 1 Connection Type: Quick Connector on driver

*Emergency: 0°C - 30°C



Blackburn

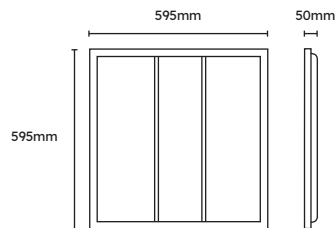
600 x 600 Indirect Smart Panel



- Built in PIR/Daylight Sensor
- Optic lens for even light distribution
- Control/Group via the truSmart App
- Flicker free driver
- Wireless control
- Microprismatic TP (a) diffuser to achieve UGR <19

UGR <19

Light Colour Temperature: **Tunable**



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
440102	truSmart Blackburn Indirect Smart Panel (tunable) 600 x 600 TP (a) - White	30W	3,900	130

OPTION NO.	DESCRIPTION
440029	truSmart E-SEL3 Emergency Pack Tunable Colour
440019	4 Button Scene Switch

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: 0°C - +40°C Class: 2 Connection Type: Quick Connector on driver

*Emergency: 0°C - 30°C



truSmart Sierra

Academic Smart Batten Twin

IP20
Ingress Protection

115°
Beam Angle

125
Lm/W

Flicker Free

BESA Mount

Push-Fit Terminals

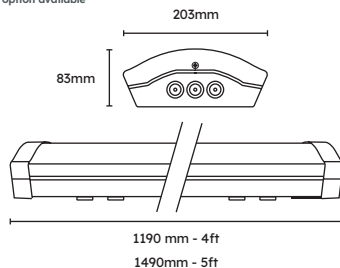
Loop in Loop out

50,000
LED Lifespan L70

5 YR
Product Warranty

Selectable Emergency

- Built in PIR/Daylight Sensor
- Opal ribbed polycarbonate diffuser to reduce glare
- Multi 20mm conduit entry
- Control/Group via the truSmart App
- Self-Test emergency available



Light Colour Temperature: **4000K**



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
440012	truSmart Sierra Academic Batten 4ft Twin - White	40W	5,000	125
440013	truSmart Sierra Academic Batten 5ft Twin - White	58W	7,250	125

OPTION NO.	DESCRIPTION
-E3	E-SEL3 Emergency
430822	Remote control

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: 0°C - +45°C* Class: 1 Connection Type: Push Terminal

*Emergency: 0°C - 30°C



truSmart Clifton

Fire Rated Commercial Downlight

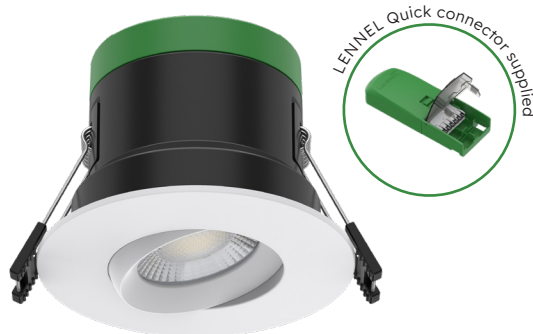
IP65
Ingress Protection

Flicker Free

Quick Connector

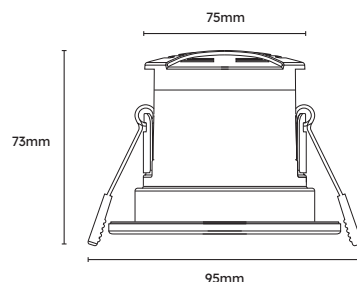
50,000
LED Lifespan L70

5 YR
Product Warranty



- Complies with parts B, C, E and L of Building Regulations
- Suitable for solid or stranded cable Ø 0.75 – 2.5mm²
- Replacable light source
- Suitable for Schools, Hotels & Corridors
- Fully tested for 30, 60 and 90 minutes fire rated
- Meets STA Pattern Book fire test requirements
- Dimmable via truSmart app or scene switch

Light Colour Temperature: **Tunable**



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W	
430882	truSmart Clifton Fire Rated Commercial Downlight White	8.5W	1,275	150	75-80mm
430883	truSmart Clifton Fire Rated Commercial Downlight Black	8.5W	1,275	150	75-80mm

OPTION NO.	DESCRIPTION
440019	4 Button Scene Switch

TECHNICAL INFORMATION

Input: 220-240V AC Operating Temp: -10°C - +45°C* Class: 2 Connection Type: Lever Terminal

*Emergency: 0°C - 30°C

Performance Criteria Guidelines

DfE Technical Annex 2E: Daylight & Electric Lighting November 2022

DfE Technical Annex 2E sets out the lighting standards for new and refurbished schools funded by the Department for Education. It ensures learning environments support student wellbeing and performance through appropriate daylight access, electric lighting levels, and glare control. The guidance also promotes energy efficiency, encouraging the use of LED lighting, daylight and occupancy sensors, and smart controls to reduce energy use and support Net Zero Carbon targets. The table below summarises the key lighting requirements schools must meet under this specification.

INTERIOR HORIZONTAL AND CYLINDRICAL ILLUMINATION CRITERIA						
TYPES OF SPACE	HORIZONTAL ILLUMINANCE			CYLINDRICAL ILLUMINANCE (WP HEIGHT 1.2M)		GLARE UGR
	Em Lx	Uo	TASK HEIGHT (M)	Ez lx	Uo	
Primary Basic Teaching Area; Primary School Libraries	300	0.6	0.55	150	0.1	19
Secondary General Teaching Spaces; Music Rooms, SEN and Support Spaces; Arts Learning Resources and Study Areas	300	0.6	0.7	150	0.1	19
LRCs	300 (200 For Shelving)	0.6	0.7 (On Vertical Edge of Books)	150	0.1	19
Darkrooms	200	0.6	0.85	50	0.1	19
Sensory Rooms	200	0.6	0	50	0.1	19
Control Rooms	300	0.6	0.7	150	0.1	19
Dining and Social Areas	200	0.4	0.7	50	0.1	22
Halls and Indoor PE Spaces	300	0.6	0 (0.7 for exams)	100	0.1	19
Sports Halls	500	0.6	0 (0.7 for exams)	100-150	0.1	22
Storage (Excluding Science Preparation); Other Kitchen Areas	100	0.4	0	N/A	N/A	25
Kitchen Preparation Areas	500	0.6	0.9	N/A	N/A	22
Circulation Areas	100	0.4	9	50	0.1	25
Toilets and Hygiene Rooms; Changing Rooms	100	0.4	0	N/A	N/A	25
Plant Areas (Including Server Room)	200	0.4	0	N/A	N/A	22

EXTERIOR ILLUMINATION CRITERIA				
AREAS	HORIZONTAL ILLUMINANCE			GLARE GRI
	Em Lx	Uo	WP HEIGHT (M)	
Walkways exclusively for pedestrians	5	0.25	0	50
Traffic Areas for Slowly Moving Vehicles (Max 10 km/he.g. Bicycles)	10	0.4	0	50
Pedestrian: Passages, Vehicles Turning, Loading and Unloading Points	50	0.4	0	50
Parking Areas	10	0.25	0	50
Security	5	0.25	0	50
External Plant Areas and Walkways	50	0.4	0	50

Source: DfE School Output Specification, November 2022

IP & IK Ratings Explained

IP Rating



The International Protection Rating / Ingress Protection Rating consists of the letters IP followed by two digits and an optional letter as defined in the international standard EN60529. The IP rating classifies the degrees of protection against dust, moisture and intrusion of solid objects. The IP number is split, the first digit represents protection against dust particles and the second digit represents the protection against moisture.

The table below shows the digits that conform with IP Rating.

First Numeral	Short Description – Example IP6X	Second Numeral	Short Description – Example IP5X
0	Non-protected	0	Non-protected
1	Protected against solid objects greater than 50mm	1	Protected against dripping water
2	Protected against solid objects greater than 12mm	2	Protected against dripping water when tilted up to 15°
3	Protected against solid objects greater than 2.5mm	3	Protected against spraying water
4	Protected against solid objects greater than 1.0mm	4	Protected against splashing water
5	Dust-protected	5	Protected against water jets
6	Dust-tight	6	Protected against heavy seas

IK Rating



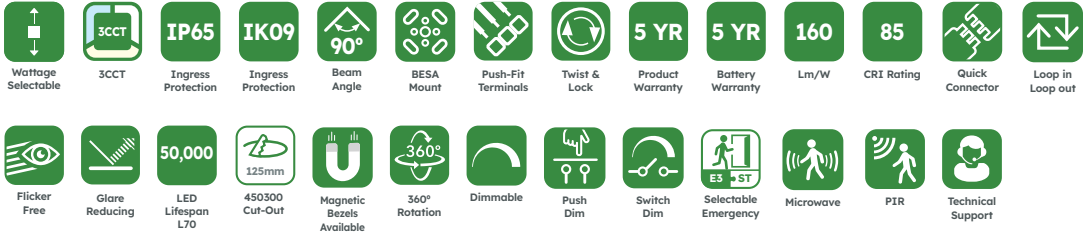
The IK rating indicates the level of protection provided by enclosures against external mechanical impact, defined by standard IEC 62262 and IEC 60068-2-75:1997. IK ratings are identified by a code that consists of the letters IK followed by two digits. The two digits range from 00 to 10 and relate to how well the enclosure resists the impact of energy levels measured in joules.

IK Rating	Protected against	Equivalent
IK00	Not protected	
IK01	0.14 joules impact.	Impact of 0.25kg mass dropped from 56mm above impacted surface.
IK02	0.2 joules impact.	Impact of 0.25kg mass dropped from 80mm above impacted surface.
IK03	0.35 joules impact.	Impact of 0.25kg mass dropped from 140mm above impacted surface.
IK04	0.5 joules impact.	Impact of 0.25kg mass dropped from 200mm above impacted surface.
IK05	0.7 joules impact.	Impact of 0.25kg mass dropped from 280mm above impacted surface.
IK06	1 joules impact.	Impact of 0.25kg mass dropped from 400mm above impacted surface.
IK07	2 joules impact.	Impact of 0.5kg mass dropped from 400mm above impacted surface.
IK08	5 joules impact.	Impact of 1.7kg mass dropped from 300mm above impacted surface.
IK09	10 joules impact.	Impact of 5kg mass dropped from 200mm above impacted surface.
IK10	20 joules impact.	Impact of 5kg mass dropped from 400mm above impacted surface.

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

General Information



UGR <19

Indicates low glare lighting suitable for comfortable environments like offices or classrooms.



We have combined manual testing with self-testing to provide versatile and manageable emergency products.



Quick and easy to connect Plug & Play Emergency and Sensor modules are available for products with this logo.



We are leading the way in the next generation of LED Lighting! Products with this logo have maximised ROI due to new higher lumen efficiency and reduced wattage.



Easy to connect Loop-in-Loop out connections in both 3 and 4 Pole.



We're redefining efficiency of LED luminaires with our range of ultra efficient products. Our next-gen luminaires maximise lumens, energy saving and ROI - delivering performance you can count on.

UK energy labels and how to read them

Energy labels start from a green bar labelled 'A' and cascade down through the rainbow (and alphabet) to a red bar, labelled 'F'. This scale represents the product's energy consumption. The green bar being the most efficient and red the poorest.



Important Information

The information, technical specification and photography contained in this catalogue is representative of general models and is correct at the time of going to press. All dimensions and weights given are advisory and should be checked and confirmed prior to any crucial installation procedures such as ceiling cut-outs taking place. Whilst suggestions regarding luminaire applications are given, it is the responsibility of the installer to verify suitability.

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Mon - Fri : 8:30am - 5:00pm
Sat - Sun - Closed