




truSmart
intelligent controls

SMART LIGHTING GUIDE

Intelligent Lighting You Control



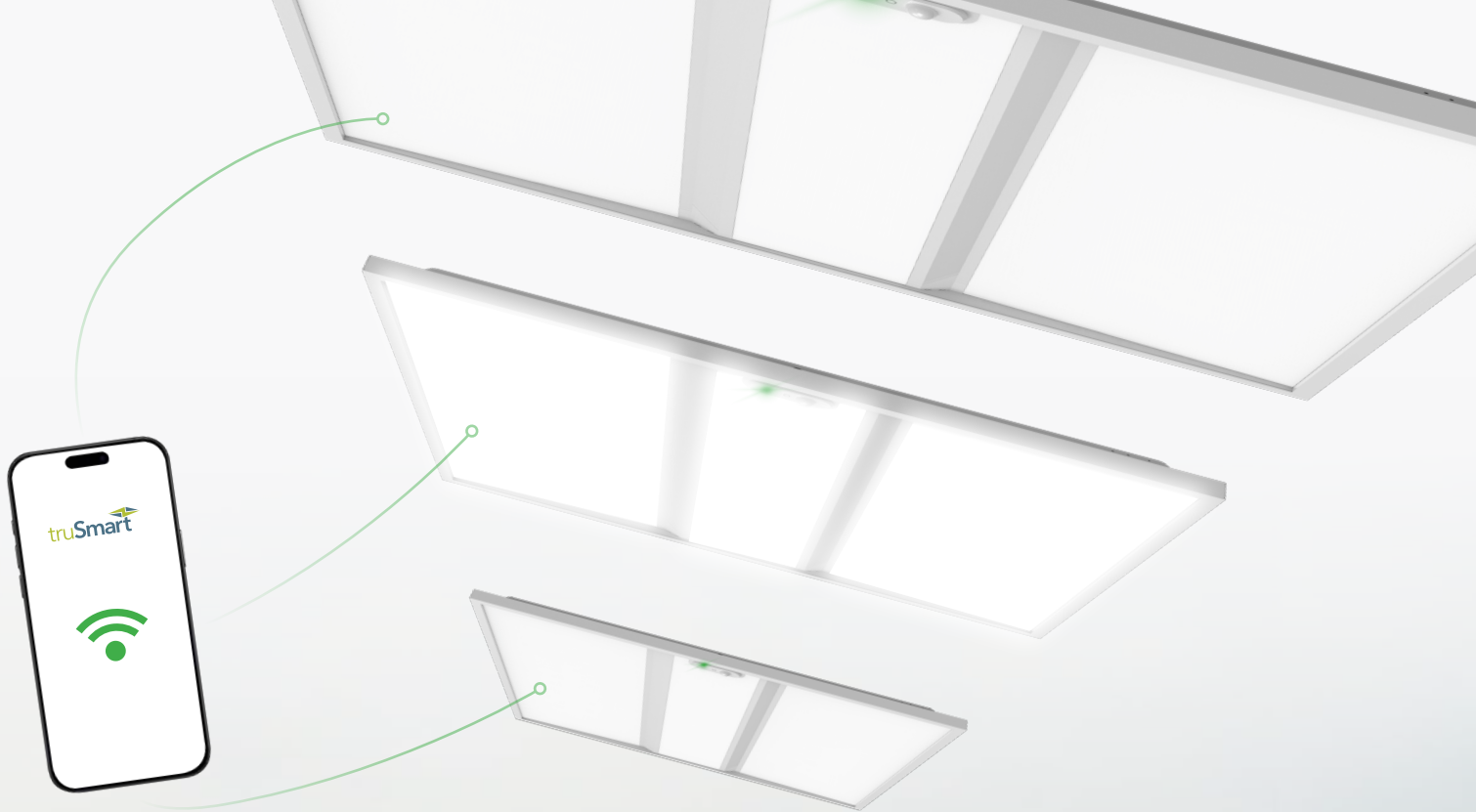
truSmart

What is truSmart?

A Wireless smart lighting solution enabling you to control an individual fitting, room, floor or entire building from an app on your smart device or cloud platform. It can be retrofitted into existing systems using our smart drivers or as a new install through our smart fittings.

**It's smart, it's energy efficient
and it's scalable.**





How does truSmart work?

Every truSmart product has a sensor that contains a powerful Bluetooth or Zigbee microchip, creating a mesh (an interconnected eco-system) that links your light fittings together and enables you to control just a single light fitting, a whole floor of lights, an entire building or even multiple sites of internal and external lighting. These sensors broadcast continuous messages to each other creating a self-healing mesh network, so that if one fitting were to be disconnected the mesh adapts and continues to run.



Why use truSmart?

The most efficient light is one that's turned off.

Obvious, we know...but the second most efficient is one that's only on when it's needed. Smart lighting enables you to manage when your lighting is on meaning you only light what and when you need to.

LED lighting with controls

LED lighting is known for its energy-saving benefits, offering significant reductions in electricity consumption compared to traditional lighting sources. When coupled with smart controls, such as motion sensors, timers, and dimmers, LED lighting can achieve even greater energy savings. By dynamically adjusting light levels based on occupancy and natural light conditions, smart controls optimise energy usage, leading to more efficient illumination and substantial cost savings over time.

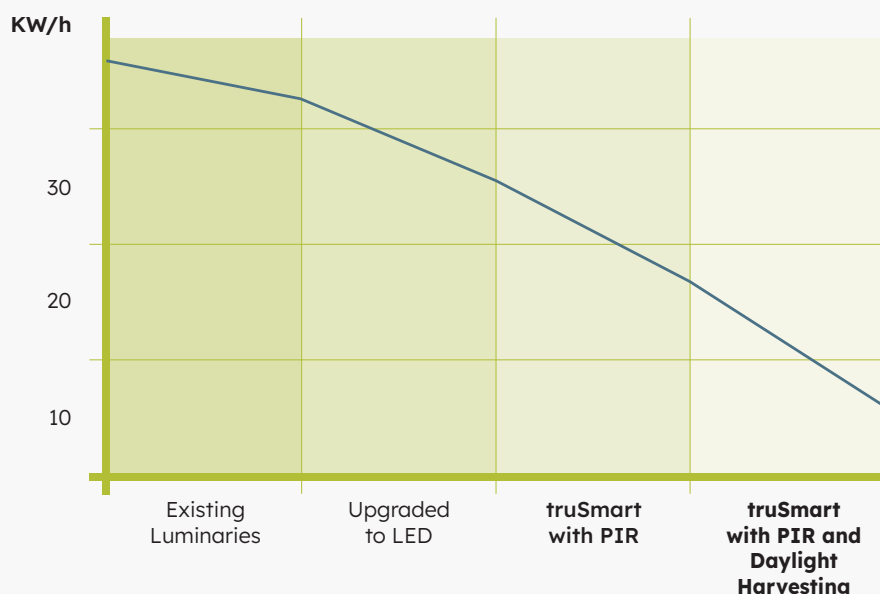
Cloud solution

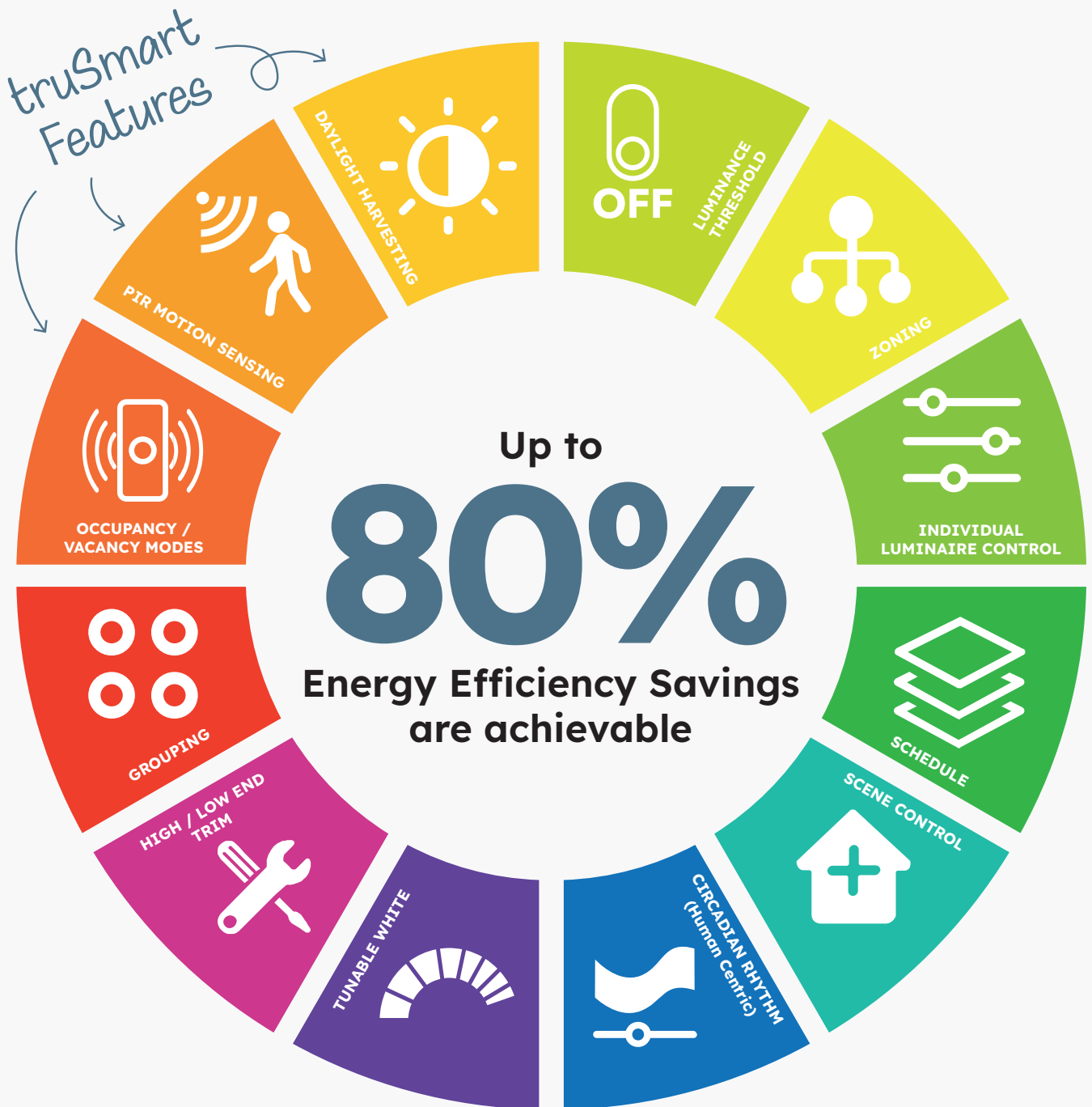
Escape the limitation from geography by embracing remote digital and visual management for multiple projects. Enhance operational and maintenance efficiency through real-time monitoring of device operation and energy consumption.

Scalability

Defining strength of Bluetooth and Zigbee Mesh technology, allowing it to effortlessly accommodate extensive networks comprising thousands of devices. The architecture and design of Bluetooth Mesh support this scalability, providing a robust foundation for large-scale deployments in various environments.

MAXIMISE YOUR ENERGY SAVINGS





What features do I need?

truSmart does so much sometimes it can be overwhelming. That's why we offer free consultations with our lighting experts, to understand exactly what you are looking to achieve and to build a tailored solution for you.



DAYLIGHT HARVESTING

Adjusts the luminaire output depending on the natural light entering the room – the more natural light, the less LED lighting needed – the more money saved.



PIR MOTION SENSING

No more lighting empty rooms. Luminaires will automatically dim and switch OFF when there is no presence in the room.



OCCUPANCY / VACANCY MODES

Occupancy mode turns lights on when you enter and off when you leave, offering convenience. Vacancy mode only turns lights off when you leave, saving more energy since lights aren't always needed when entering a room.



GROUPING

You can now group all luminaires for an easy setting, scene or schedule set-up. A group of luminaires will allow your room to light up if there's any movement in either of the sensors.



HIGH / LOW END TRIM

Limit the minimum or maximum light output from each unit maximising efficiency in each light and unnecessary light wastage.



TUNABLE WHITE

Colour and Brightness adjustment from 3000K to 6500K controlled via app or wall controller.



OFF LUMINANCE THRESHOLD

Allows the luminaires to stay OFF if there is sufficient light level in the room, even if movement is detected.



ZONING

Zoning is for controlling a floor space in a building. Each zone can be set as a different floor in a building, where you could have different groups for room controls.



INDIVIDUAL LUMINAIRE CONTROL

You are now able to control an LED fitting individually even if it's grouped. Last used settings will overwrite the group settings.



SCHEDULE

Make your lighting work around your needs. Having scheduled control will maximise energy savings and help provide safety and security of personnel. For example; automatically increasing the light level during cleaning hours by setting the scene for night.



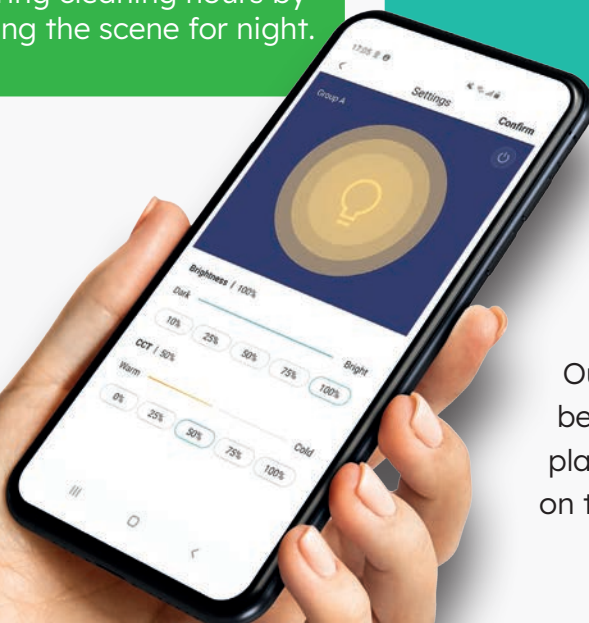
SCENE CONTROL

Easy scene defining and selection, allowing the user to switch between scenes by the press of a single button.



CIRCADIAN RHYTHM (Human Centric)

Lighting does more than illuminate it supports well-being, comfort, and productivity. Rhythm features adjust color temperature throughout the day, simulating natural light to boost focus and reduce fatigue.



Help & Support

Our expert engineers are on hand to offer you the best solutions and provide technical support when planning your truSmart system. We can advise you on the best lighting installation, commissioning and maintenance.



CASE STUDY

Dairy Farm

A dairy farm near Wells Somerset embraced modern technology by installing truSmart lighting paired with high-efficiency Foremark Plus High Bay fixtures. With an impressive efficacy of up to 205 lumens per

watt (lm/W) and the integration of Daylight Harvesting sensors, the project has benefitted from exceptional energy savings, also creating an optimal environment for livestock health and productivity.

***“...achieved an 80% reduction
in lighting energy consumption,
ensuring significant annual savings”***

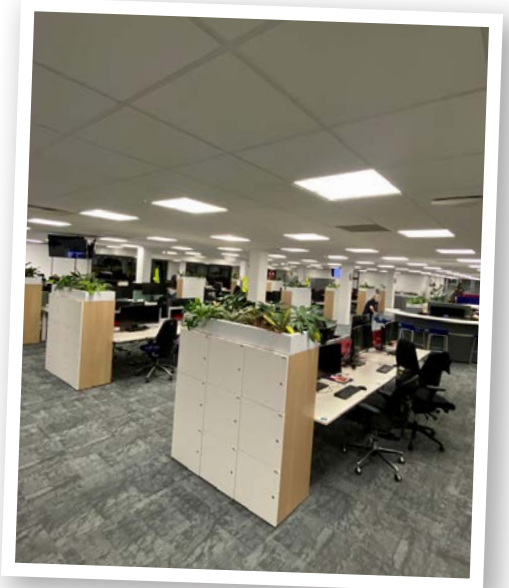


CASE STUDY

Insurance Offices

An insurance company upgraded the lighting throughout their entire Head Office to energy-efficient LED solutions using Snowden Panels with integrated emergency lighting (EM). This comprehensive installation

not only enhances workplace illumination but also ensures compliance with emergency lighting standards, delivering a brighter, safer, and more sustainable office environment.

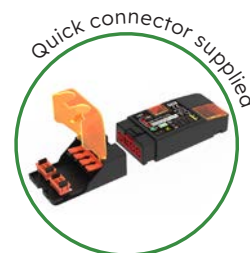


“...delivering a brighter, safer, and more sustainable office environment.”



Snowdon

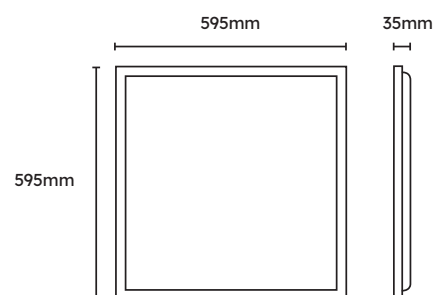
600 x 600 Backlit Smart Panel



- 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

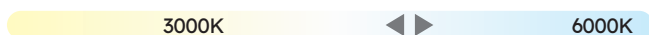
UGR <19

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

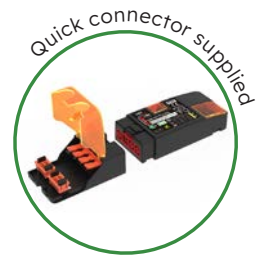
Input: 220-240V AC Operating Temp: 0°C - +40°C Class: 2 Connection Type: Quick Connector on driver

*Emergency: 0°C - 30°C



Blackburn

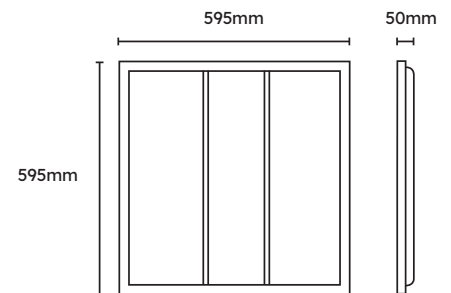
600 x 600 Indirect Smart Panel



- 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

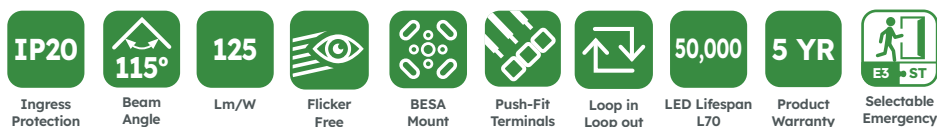
Input: 220-240V AC Operating Temp: 0°C - +40°C Class: 2 Connection Type: Quick Connector on driver

*Emergency: 0°C - 30°C



truSmart Sierra

Academic Smart Batten Twin



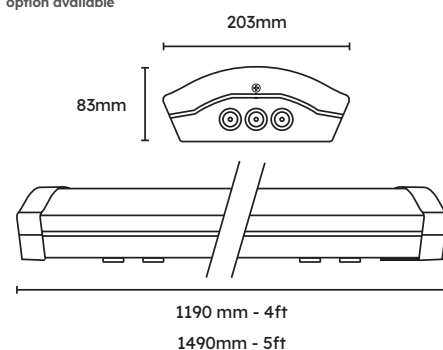
- Built in PIR/Daylight Sensor
- Opal ribbed polycarbonate diffuser to reduce glare
- Multi 20mm conduit entry
- Control/Group via the truSmart App
- Self-Test emergency available

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
440019	4 Button Scene Switch



TECHNICAL INFORMATION

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

*Emergency: 0°C - 30°C



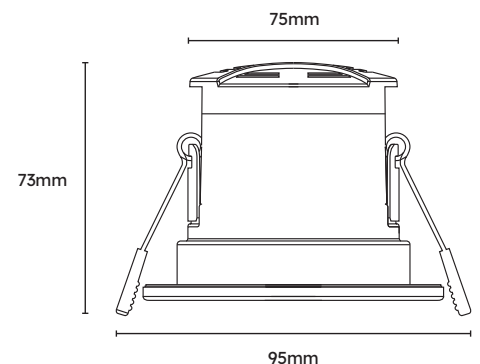
truSmart Clifton

Fire Rated Commercial Downlight



- 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
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TECHNICAL INFORMATION

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

*Emergency: 0°C - 30°C



Derwent

Wattage Selectable Plug & Play Mid Bay



Wattage
Selectable



Ingress
Protection



Impact
Rating



Lm/W



LED Lifespan
L70



Product
Warranty



Selectable
Emergency



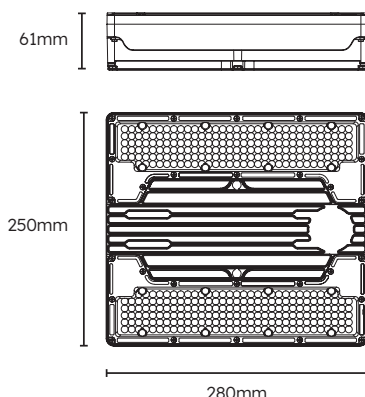
Ultra Efficient

- Plug & Play Grafham Linear High Bay E-SEL3 Selectable Emergency
- Wattage selectable (3 options)
- Highly efficient – 180 lm/W
- Suspension kit included
- Sleek, compact design



Selectable emergency
option available

Light Colour Temperature: 5000K



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
431175-85	Derwent Mid Bay - Grey Plug & Play	75W/95W/118W	13,500/17,100/21,250	180

OPTION NO.	DESCRIPTION
430964	Grafham Linear High Bay E-SEL3 Selectable Emergency
401754	Remote Control
430625-SMB	Crown Zhaga 14m Plug & Play truSmart PIR Sensor
440019	4 Button Scene Switch

BRACKETS AND MOUNTING OPTIONS	
431176	Fixed Bracket
431174	Emergency Pack Mounting Bracket

TECHNICAL INFORMATION

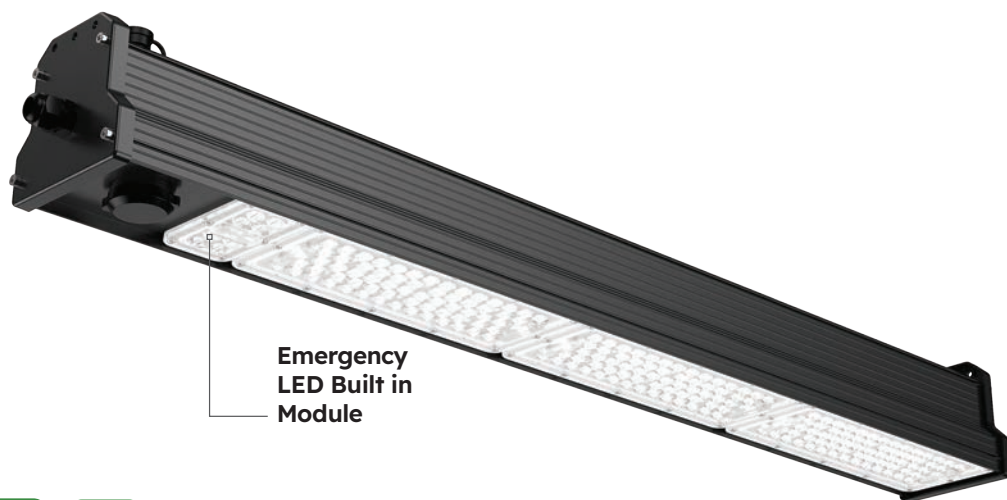
Input: 100-240V AC Operating Temp: -30°C - +50°C Class: 1 Connection Type: 1.5m H05RN-F cable

*Emergency Temp: 0°C - 30°C



Netherton

Plug & Play High Bay



IP65
Ingress Protection

170
Lm/W

IK08
Impact Rating

50,000
LED Lifespan L70

5 YR
Product Warranty

Selectable Emergency

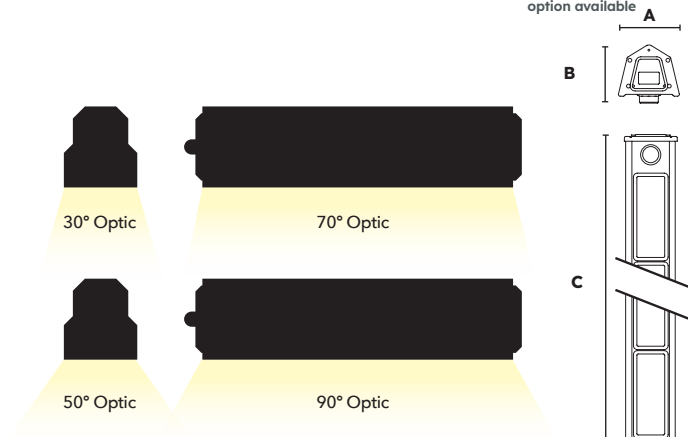


- Plug & Play Grafham Linear High Bay E-SEL3 Selectable Emergency
- Lightweight design
- Optics ideal for racked aisles
- Supplied with 1.5m suspension kit
- 30°x70° or 50°x 90° optic options



Selectable emergency option available

Light Colour Temperature: 5000K



PART NO.	DESCRIPTION	A	B	C	WATTS	LUMENS	LM/W
431181	Netherton Linear High Bay - Black Plug & Play	102mm	100mm	645mm	80W	13,600	170
431182	Netherton Linear High Bay - Black Plug & Play	102mm	100mm	876mm	120W	20,400	170
431183	Netherton Linear High Bay - Black Plug & Play	102mm	100mm	1107mm	160W	27,200	170
431184	Netherton Linear High Bay - Black Plug & Play	102mm	100mm	1107mm	200W	34,000	170

OPTION NO. DESCRIPTION

430964	Grafham Linear High Bay E-SEL3 Selectable Emergency
430625-SMB	Crown Zhaga 14m Plug & Play truSmart PIR Sensor
440019	4 Button Scene Switch

BRACKETS AND MOUNTING OPTIONS

431198	Adjustable Bracket
421363	Emergency Pack Mounting Bracket Pair

TECHNICAL INFORMATION

Input: 100-240V AC Operating Temp: -30°C - +40°C Class: 1 Connection Type: 1.5m H05RN-F cable



Meadley

Wattage Selectable Plug & Play High Bay



Wattage
Selectable



Ingress
Protection



Ingress
Protection



Lm/W



LED Lifespan
L70



Product
Warranty



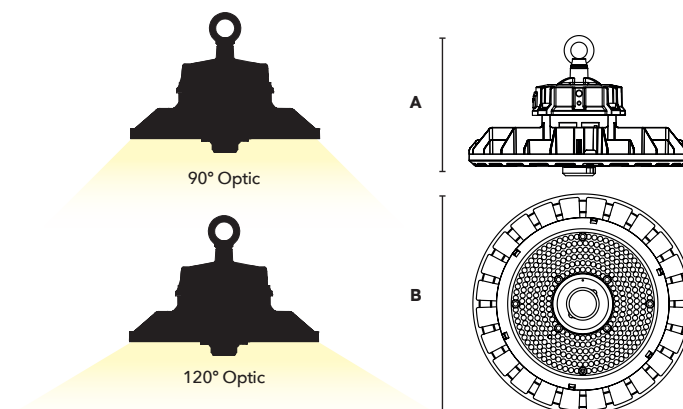
Selectable
Emergency



- Plug & Play Grafham High Bay E-SEL3 Selectable Emergency
- Wattage Selectable (3 options)
- Supplied with 1.5M prewired H05RN-F cable
- 90° or 120° optic options



Light Colour Temperature: 5000K



PART NO.	DESCRIPTION	A	B	WATTS	LUMENS	LM/W
431178	Meadley High Bay - Black Plug & Play	163mm	248mm	50W/70W/100W	7,750/10,850/15,500	155
431179	Meadley High Bay - Black Plug & Play	170mm	266mm	85W/115W/150W	13,175/17,825/23,250	155
431180	Meadley High Bay - Black Plug & Play	174mm	300mm	115W/155W/200W	17,825/24,025/31,000	155

OPTION NO. DESCRIPTION

430965	Grafham High Bay E-SEL3 Selectable Emergency
430625-SMB	Crown Zhaga 14m Plug & Play truSmart PIR Sensor
440019	4 Button Scene Switch

BRACKETS AND MOUNTING OPTIONS

430519	Meadley High Bay Fixed Bracket
431173	Adjustable Bracket
401063	Polycarbonate Diffuser (200W only)

TECHNICAL INFORMATION

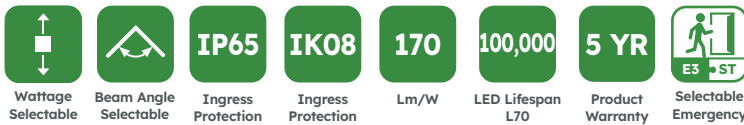
Input: 100-240V AC Operating Temp: -30°C - +50°C Class: 1 Connection Type: 1.5m H05RN-F cable

*Emergency Temp: 0°C - 30°C



Meadley Plus

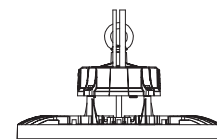
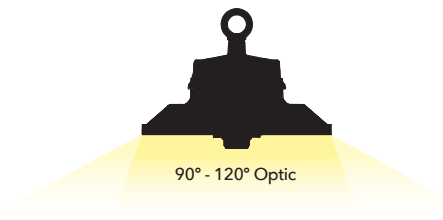
Wattage, CCT & Beam Angle Selectable Plug & Play High Bay - Black



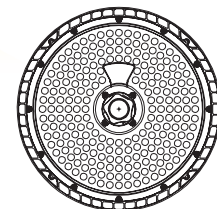
- Plug & Play Grafham High Bay E-SEL3 Selectable Emergency
- Wattage Selectable (3 options)
- 3CCT Selectable
- Beam Angle Selectable 90° - 120°



Light Colour Temperature: **3CCT Selectable**



100W: 163mm
150W: 163mm
200W: 168mm
240W: 173mm



100W: 285mm
150W: 285mm
200W: 310mm
240W: 330mm

PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
431323	Meadley Plus Wattage Selectable 90° & 120° Plug & Play - Black	60W/80W/100W	8,500/11,900/17,000	170
431324	Meadley Plus Wattage Selectable 90° & 120° Plug & Play - Black	90W/120W/150W	14,450/19,550/25,500	170
431325	Meadley Plus Wattage Selectable 90° & 120° Plug & Play - Black	120W/160W/200W	19,550/26,350/34,000	170
431326	Meadley Plus Wattage Selectable 90° & 120° Plug & Play - Black	145W/190W/240W	20,400/28,900/40,800	170

OPTION NO. DESCRIPTION

430965	Grafham High Bay E-SEL3 Selectable Emergency
430625-SMB	Crown Zhaga 14m Plug & Play truSmart PIR Sensor
440019	4 Button Scene Switch

TECHNICAL INFORMATION

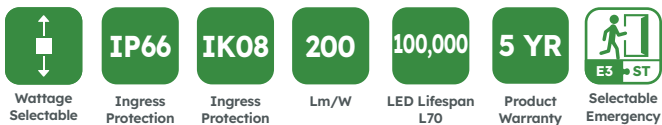
Input: 120-240V AC Operating Temp: -30°C - +50°C Class: 1 Connection Type: 1.5m H05RN-F cable

*Emergency Temp: 0°C - 30°C



Foremark

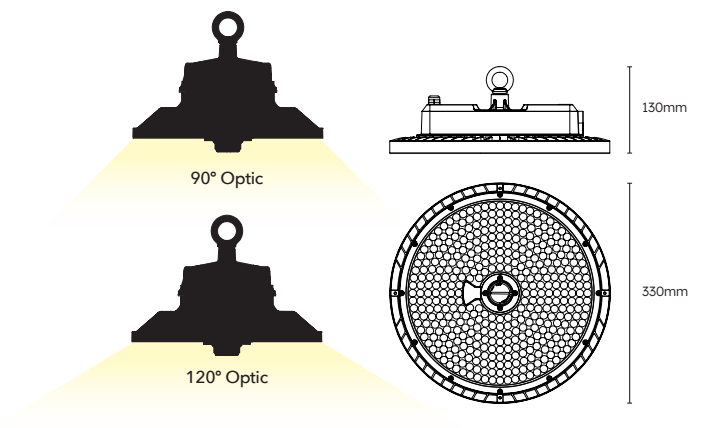
Wattage Selectable Plug & Play High Bay



- Plug & Play Grafham High Bay E-SEL3 Selectable Emergency
- Wattage Selectable (6 options)
- Supplied with 1.5M prewired H05RN-F cable
- 'A' rated product that delivers over 200 lm/W with optic
- 90° or 120° optic options



Light Colour Temperature: 5000K



PART NO.	DESCRIPTION	WATTS	LUMENS	LM/W
421435-90	Foremark Zhaga - Black Plug & Play	80W/100W/120W/160W/180W/200W	16,000/20,000/24,000/32,000/36,000/40,000	200
421435-120	Foremark Zhaga - Black Plug & Play	80W/100W/120W/160W/180W/200W	16,000/20,000/24,000/32,000/36,000/40,000	200

OPTION NO. DESCRIPTION

430965	Grafham High Bay E-SEL3 Selectable Emergency
430625-SMB	Crown Zhaga 14m Plug & Play truSmart PIR Sensor
440019	4 Button Scene Switch

TECHNICAL INFORMATION

Input: 120-240V AC Operating Temp: -30°C - +50°C* Class: 1 Connection Type: 1.5m H05RN-F cable

*Emergency Temp: 0°C - 30°C



Tempest

Wattage and 2CCT Selectable Anti-Corrosive & High Output Anti-Corrosive



Wattage & 2CCT Selectable

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

High Output

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



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

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

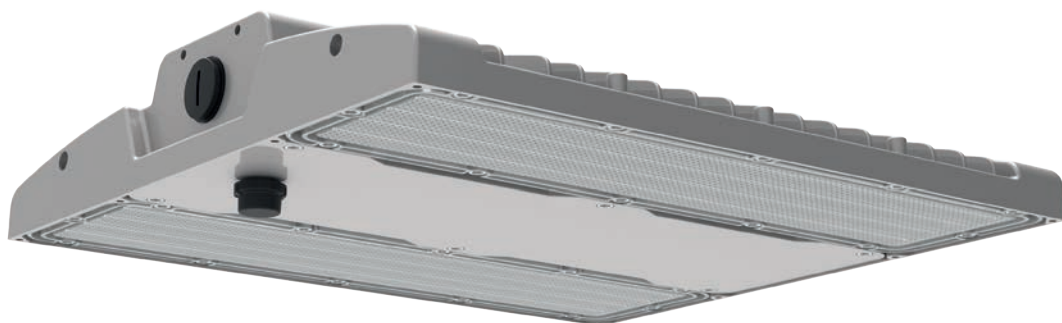
OPTION NO. DESCRIPTION

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



Belmont

Linear High Bay - Zhaga Plug & Play



Wattage
Selectable



Ingress
Protection



Impact
Rating



Lm/W



Flicker
Free



LED Lifespan
L70



Product
Warranty



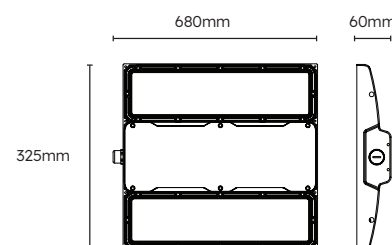
Selectable
Emergency



- Plug & Play Grafham Linear High Bay E-SEL3 Selectable Emergency
- Wattage Selectable (3 options)
- Fresnel optics for improved glare control
- Tough, impact resistant IK10 housing



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
430625-SMB	Crown Zhaga 14m Plug & Play truSmart PIR Sensor
440019	4 Button Scene Switch

BRACKETS AND MOUNTING OPTIONS
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

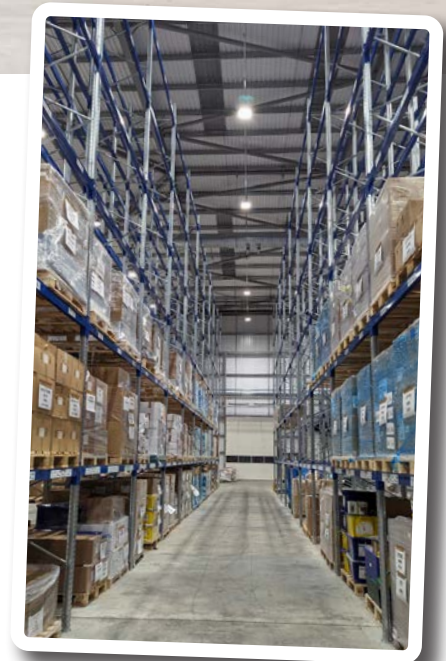
*Emergency: 0°C - 30°C

**CASE STUDY**

Pharmacy Warehouse

With the installation of truSmart controls and Foremark Plus LED fittings, this Pharmacy's new warehouse and distribution centre benefits from substantial energy savings, enhanced lighting quality and straightforward,

centralised control. The system is designed to reduce operational costs and streamline maintenance, while providing a flexible and sustainable lighting solution that aligns well with the centre's logistical needs.



“...providing precise control, robust energy savings, and an adaptable lighting environment to support the centre's day-to-day operations”



Sanford

For all indoor product control and enable cloud access.



Part No.	Description	Input
440018	truSmart Sanford Industrial Dual Technology Gateway	220V-240V AC



Sanford

For all sports lighting & long range product control.



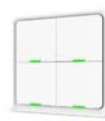
Part No.	Description	Input
440056	truSmart Sanford Outdoor Gateway	220V-240V AC



4" Control Panel
Part No: 440054



Blanco 4 Switch
Part No: 440023



4-Key Scene Switch
Part No: 440019



6-Key Scene Switch
Part No: 440020



Blanco 9 Button
Part No: 440047

Part No.	Description
440054	truSmart Control Panel 4" c/w Building Scene Control APP Local Gateway
440048	truSmart Tablet 10.3" c/w Building Control App 4G
440049	Desk Stand For 10.3" Tablet
440047	truSmart Blanco 9 Button Bluetooth Remote Controller White Battery
440023	truSmart Blanco Wall Switch 4 Way Kinetic
440020	truSmart Six-Key Scene Switch Mains Version
440019	truSmart Four-Key Scene Switch Battery Version



10.3" Desk Stand
Part No: 440049



10.3" Tablet
Part No: 440048



Drivers

Suitable for: Panels and downlights.



Part No.	Description	Current
440009	Lincoln Smart LED Driver 20W Max 20-42V	250mA-500mA
440010	Lincoln Smart LED Driver 30W Max 20-42V	400mA-750mA
440011	Lincoln Smart LED Driver 40W Max 20-42V	750mA-1050mA



Crown Sensors



Part No.	Description	Range
430625-SMB	truSmart Crown Zhaga Plug & Play 12V PIR Sensor Black	Up to 15m
430821	truSmart Zhaga Plug & Play 12V Microwave Sensor Black	Up to 15m
440033	truSmart Crown Stand-Alone PIR	Up to 4m
440041	truSmart Crown Linear Microwave Sensor 12-24DC 0-10V	Up to 4m



Sports Node

Wireless mesh scene control.



Part No.	Description	Range
440057	truSmart Crown Zhaga Plug & Play 12V Outdoor Sensor Node	75 - 150m

ROOT3

LIGHTING & ELECTRICAL

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Opening Times

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