



Market Leading LED Solutions



**SENSORS &
DRIVERS**

**SPORTS
LIGHTING**

**EMERGENCY
LIGHTING**

**EXTERIOR
LIGHTING**

**INDUSTRIAL
LIGHTING**

**TRUSMART
LIGHTING**

**COMMERCIAL
LIGHTING**

**LINEAR
LIGHTING**

**AMENITY
LIGHTING**



Welcome to Lumineux Lighting

My name is Ben Chapman, the sales director of Lumineux lighting.

I am very proud to introduce to you our latest LED lighting catalogue. Inside you will find an extensive range of our latest Industrial, Commercial, Sports and truSmart LED lighting. The Lumineux name is synonymous with innovative, high performance and reliable lighting products. We are a family business, established in 1986, who place service, value and reliability at the very core of what we do.

Our key strategy is to Partner with our distributors and customers, and to provide them with the products and lighting solutions that help them to achieve their goals and objectives. We achieve this by:

- **An honest approach to business which is based on trust and shared values**
- **Providing a level of friendly support and service that makes dealing with Lumineux easy and straightforward**
- **Offering great value products that combine fair prices with high performance to provide our Partners with market winning products**
- **Having product warranties that are trustworthy, straightforward and dependable. We do not entertain ambiguous clauses or warranties that rely on complex online registrations for validity**
- **By stocking all our products in depth at our Manby facility to enable our Partners to access what they need quickly and reliably. Our stock availability averages over 98% across our full product portfolio**

If you want to Partner with a lighting supplier that offers a fresh approach, then I invite you to consider Lumineux. We have the products, the service, with great value, all backed up by reliable warranties, our free lighting design service and of course our huge UK stocks.

My highly trained sales team are always on hand to engage with you, so please get in touch.

Ben Chapman
Sales Director



Ordering from Lumineux could not be easier!

Call our sales team on
01507 328031

Fax us at
01507 328039

Email us at
sales@lumineux.co.uk

Ben Chapman

Sales Director
benchapman@lumineux.co.uk
07545 546166

Ben Thornton-Walker

National Sales Manager
benthorntonwalker@lumineux.co.uk
07580 974080

James Heaton

North West RSM
jamesheaton@lumineux.co.uk
07494 661803

Michael Bingham

East Coast RSM
michaelbingham@lumineux.co.uk
07773 625128

Andrew Terrell

South West RSM
andrewterrell@lumineux.co.uk
07989 153071

Lewis Nolan

North East RSM
lewisnolan@lumineux.co.uk
07580 974527

Cameron Cole

South London & South East RSM
cameroncole@lumineux.co.uk
07903 240395

Lindsey Morrison

Scotland & Northern Ireland RSM
lindseymorrison@lumineux.co.uk
07939 092546

Stephen Ward

Midlands RSM
stephenward@lumineux.co.uk
07989 153080

Eli Ward

North London & East Anglia RSM
eliward@lumineux.co.uk
07773 625133

West Midlands & M4

RSM
sales@lumineux.co.uk
01507 328031



WhatsApp

Now it's **easier than ever** for you to get in touch with Lumineux!

Great benefits include:

- ✓ Quick and easy via your mobile or tablet
- ✓ Tracking requests
- ✓ Technical questions
- ✓ Stock availability
- ✓ Price requests*

*Verification required



Scan the code to send us a message...

or add us on
07401 234 272

Take a photo of a Lumineux lighting installation and post to your social media with the hashtag...

#lovelumineux

snap



tag



win



More details can be found via our social media accounts...



Order before 4pm for Next Day Delivery

Nationwide* next day delivery is free for all orders over £200 (exc.VAT). Stock orders can be ordered up to 4pm for next day delivery and factory assembled items are normally available within 48 hours. We specialise in customising our products to meet any specific requirements you may have, such as Photocells, Microwave/PIR controls, DALI drivers and specialised optics.

*Excludes Ireland, The Highlands and the Isle of Wight.

All prices are subject to VAT. Please note that all products supplied are subject to our Terms & Conditions of Sale.

Visit our website at
www.lumineux.co.uk

- Full product ranges
- Case studies
- Download product datasheets

We also offer an online Web Chat with our Support Team



Symbols Overview

General symbols

UGR Rating	TPa Rated	TPb Rated	Lumens per watt	CCT	Beam Angle	CRI Rating	IK Rating
truSmart APP	Quick Connect	IP Rating	RGB	Flicker Free	Glare Reducing	Thermal Management	Hours
Push-Fit Terminals	Product Warranty	Kelvin	Besa Mount	On Site Warranty	Battery Warranty	Loop In Loop Out	Polycarbonate
Technical Advice	Hole Cut-Out	Fire Rated	Solid Joist Certified	I-Joist Certified	Open Web Joist Certified		

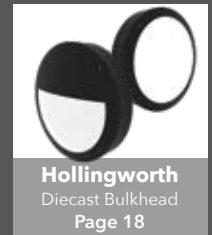
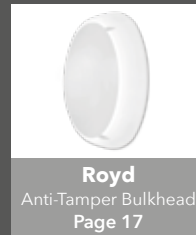
Dimming symbols

1-10V Dimmable	Dimmable	Switch Dim	DALI Dimmable	DALI 2 Dimmable	Push Dim	0-10V Dimmable

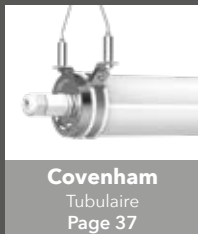
Option symbols

truSmart Enabled	Microwave	Dusk to Dawn	Self-Test Option	PIR	Emergency	Bluetooth
Plug & Play PIR Sensor	Plug & Play Microwave Sensor	Plug & Play Emergency				

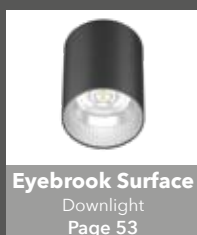
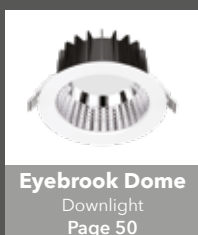
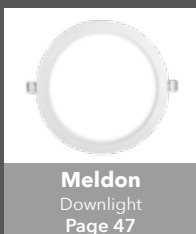
Amenity Lighting



Linear Lighting



Commercial Lighting





truSmart Lighting



Troffer
Smart Panel
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Linear
Smart Batten
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truSmart
PIR Sensor
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Industrial Lighting



Meadley
High Bay
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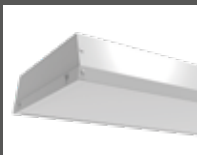
Loscoe
High Temp High Bay
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Foremark
High Bay Plug & Play
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Reva
High Bay
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Derwent
Low Bay
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Netherton
Linear High Bay
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Belmont
Linear High Bay Plug & Play
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Exterior Lighting



Lifford
Floodlight
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Frankly
Floodlight
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Frankly Plus
Floodlight
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Bartley
Floodlight
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Tring
RGBW Floodlight
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Ogden
Post-Top Streetlight
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Windermere
Streetlight
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Emergency Lighting

 <p>Darwell Emergency Bulkhead Page 86</p>	 <p>Draycote Twin Spots Pages 87 - 88</p>	 <p>Redbrook Exit Box Page 89</p>	 <p>Fontburn Hanging Exit Sign Page 90</p>	 <p>Woodhead Emergency Spotlight Page 91</p>
 <p>Napton High Level Emergency Page 92</p>	 <p>Thirlmere Emergency Packs Page 93</p>	 <p>Grafham Plug & Play Emergency Pack Page 93</p>		

Sports Lighting

 <p>Wilton Court Lighting Page 96</p>	 <p>Harlock Court Lighting Page 97</p>
 <p>Arnfield Linear Court Lighting Pages 98 - 99</p>	 <p>Carsington Sports Floodlighting Pages 100 - 101</p>

Sensors & Drivers

 <p>Alwen Plug & Play PIR Sensor Page 104</p>	 <p>Alwen Plug & Play truSmart PIR Sensor Page 104</p>	 <p>Alwen Plug & Play Microwave Sensor Page 104</p>
 <p>Triac Dimmable Drivers Page 105</p>	 <p>Multi Dimmable Drivers Page 105</p>	

AMENITY LIGHTING



Ridgegate
Bulkhead
Page 12

NEW



Rutland
9W Bulkhead
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Rutland
16W Bulkhead
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Pebley
Utility Round / Square
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Royd
Anti-Tamper Bulkhead
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Hollingworth
Diecast Bulkhead
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Hatherton
Multi Bulkhead
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Howden
Stairwell Bulkhead
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Rydal
Wallpack
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Hurworth
Diecast Wallpack
Page 24

Ridgegate 14W 3CCT Bulkhead

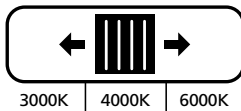


- Tough and durable body and diffuser
- Wall and ceiling mount
- LED lifespan 30,000 hours L70
- Standard, microwave, emergency and 3 step dimming options available
- IK08 impact rated

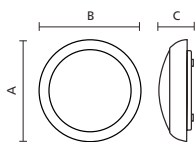


CCT switchable

3000K, 4000K & 6000K



Ridgegate	
A	320 mm
B	320 mm
C	85 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430155	Ridgegate LED Bulkhead - White	14W	3CCT	<1,456	106	£50.80

Options

Option No.	Description	Trade Price
-M3	Emergency*	+£57.09
-MW	Microwave	+£44.21
-M3-MW	Emergency* & Microwave	+£96.24
-SD	Step Dim	+£66.10
-M3-SD	Emergency* & Step Dim	+£117.04

Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C
IP Rating	IP65
Connection Type	Push Terminal

LiFePO4



*See page 113 for battery warranties and operating temperatures. ^Lm/W figures based on 4000K output.

NEW

Rutland 9W 3CCT Bulkhead

IP65

3CCT

BESA

88[^]
Lm/W

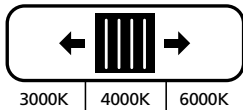
5 YR
Warranty

- Tough and durable body and diffuser
- Wall and ceiling mount
- LED lifespan 50,000 hours L70
- Standard, microwave and emergency options available
- IK08 impact rated



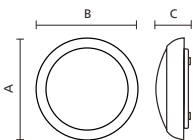
CCT switchable

3000K, 4000K & 6000K



Rutland 9W

A	271 mm
B	271 mm
C	92 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430400	Rutland LED Bulkhead - White	9W	3CCT	<765	88	£48.81

Options

Option No.	Description	Trade Price
-M3	Emergency*	+£57.09
-MW	Microwave	+£44.21
-M3-MW	Emergency* & Microwave	+£96.24

Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C
IP Rating	IP65
Connection Type	Push Terminal



*See page 113 for battery warranties and operating temperatures. ^Lm/W figures based on 4000K output.



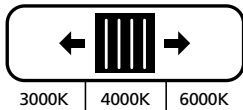
Rutland 12W 3CCT Bulkhead



- Tough and durable body and diffuser
- Wall and ceiling mount
- LED lifespan 50,000 hours L70
- Standard, microwave, emergency and 3 step dimming options available
- IK08 impact rated

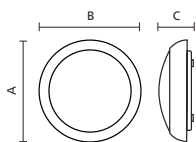


CCT switchable
3000K, 4000K & 6000K



Rutland 12W

A	330 mm
B	330 mm
C	110 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430156	Rutland LED Bulkhead - White	12W	3CCT	<1,314	115	£55.77

Options

Option No.	Description	Trade Price
-M3	Emergency*	+£57.09
-MW	Microwave	+£44.21
-M3-MW	Emergency* & Microwave	+£96.24
-SD	Step Dim	+£66.10
-M3-SD	Emergency* & Step Dim	+£117.04

Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C
IP Rating	IP65
Connection Type	Push Terminal
LiFePO4	



*See page 113 for battery warranties and operating temperatures. ^Lm/W figures based on 4000K output.

Pebley Utility Round 3CCT Bulkhead

IP65

3CCT

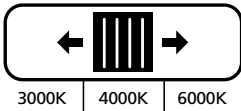
113[^]
Lm/W

5 YR
Warranty

- Tough and durable body and diffuser
- Wall and ceiling mount
- LED lifespan 50,000 hours L70
- Standard, microwave, emergency, dusk to dawn and 3 step dimming options available
- IK08 impact rated

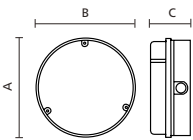


CCT switchable
3000K, 4000K & 6000K



Pebley Round

A	286 mm
B	286 mm
C	100 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430159-WH	Pebley LED Utility Round Bulkhead - White	12W	3CCT	<1,294	113	£54.52
430159-BL	Pebley LED Utility Round Bulkhead - Black	12W	3CCT	<1,294	113	£54.52

Options

Option No.	Description	Trade Price
-M3	Emergency*	+£57.09
-MW	Microwave	+£44.21
-M3-MW	Emergency* & Microwave	+£96.24
-DD	Dusk to Dawn	+£56.58
-M3-DD	Emergency* & Dusk to Dawn	+£107.98
-SD	Step Dim	+£66.10
-M3-SD	Emergency* & Step Dim	+£117.04

Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C
IP Rating	IP65
Connection Type	Push Terminal

LiFePO4



*See page 113 for battery warranties and operating temperatures. ^Lm/W figures based on 4000K output.



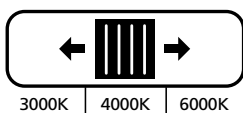
Pebley Utility Square 3CCT Bulkhead



- Tough and durable body and diffuser
- Wall and ceiling mount
- LED lifespan 50,000 hours L70
- Standard, emergency, dusk to dawn and 3 step dimming options available
- IK08 impact rated

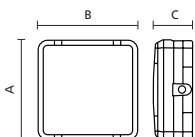


CCT switchable
3000K, 4000K & 6000K



Pebley Square

A	255 mm
B	255 mm
C	100 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430160-WH	Pebley LED Utility Square Bulkhead - White	12W	3CCT	<1,321	116	£57.63
430160-BL	Pebley LED Utility Square Bulkhead - Black	12W	3CCT	<1,321	116	£57.63

Options

Option No.	Description	Trade Price
-M3	Emergency*	+£57.09
-MW	Microwave	+£44.21
-M3-MW	Emergency* & Microwave	+£96.24
-DD	Dusk to Dawn	+£56.58
-M3-DD	Emergency* & Dusk to Dawn	+£107.98
-SD	Step Dim	+£66.10
-M3-SD	Emergency* & Step Dim	+£117.04

Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C
IP Rating	IP65
Connection Type	Push Terminal

LiFePO4



*See page 113 for battery warranties and operating temperatures. ^Lm/W figures based on 4000K output.

Royd Anti-Tamper 3CCT Bulkhead

IP65

3CCT

BESA

129[^]
Lm/W

IK08

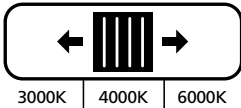
5 YR
Warranty

- Tough and durable body and diffuser
- Wall and ceiling mount
- LED lifespan 50,000 hours L70
- Standard, microwave, emergency and 3 step dimming options available
- IK08 impact rated
- Tamper proof screws



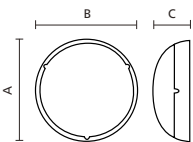
CCT switchable

3000K, 4000K & 6000K



12W & 20W

A	305 mm
B	305 mm
C	110 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430157	Royd Anti-Tamper LED Bulkhead - White	12W	3CCT	<1,472	129	£56.38
430158	Royd Anti-Tamper LED Bulkhead - White	20W	3CCT	<2,248	122	£62.29

Options

Option No.	Description	Trade Price
-M3	Emergency*	+£57.09
-MW	Microwave	+£44.21
-M3-MW	Emergency* & Microwave	+£96.24
-SD	Step Dim	+£66.10
-M3-SD	Emergency* & Step Dim	+£117.04

Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C
IP Rating	IP65
Connection Type	Push Terminal
LiFePO4	



*See page 113 for battery warranties and operating temperatures. ^Lm/W figures based on 4000K output.



Hollingworth Diecast 3CCT Bulkhead

IP65
3CCT
BESA
94[^] Lm/W
5 YR Warranty

- Tough and durable diecast body with polycarbonate diffuser
- Wall and ceiling mount
- LED lifespan 50,000 hours L70
- Standard, microwave, emergency, dusk to dawn and 3 step dimming options available
- IK10 impact rated



CCT switchable
3000K, 4000K & 6000K

3000K | 4000K | 6000K

Full		Eyelid	
A	365 mm	A	365 mm
B	365 mm	B	365 mm
C	105 mm	C	110 mm

Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430239	Hollingworth LED Diecast Bulkhead Full - Black	20W	3CCT	<1,730	94	£174.38
430240	Hollingworth LED Diecast Bulkhead Eyelid - Black	20W	3CCT	<1,100	59	£178.67

Options

Option No.	Description	Trade Price
-M3	Emergency*	+£57.09
-MW	Microwave	+£44.21
-M3-MW	Emergency* & Microwave	+£96.24
-DD	Dusk to Dawn	+£56.58
-M3-DD	Emergency* & Dusk to Dawn	+£107.98
-SD	Step Dim	+£66.10
-M3-SD	Emergency* & Step Dim	+£117.04

Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C
IP Rating	IP65
Connection Type	Push Terminal

LiFePO4



*See page 113 for battery warranties and operating temperatures. ^Lm/W figures based on 4000K output.

Hatherton Multi 3CCT Bulkhead Bezels



Choose from these 'Clip-on' bezels available



Full

Black or White

Part No. 401589 -Black
Part No. 401588 -White



Eyelid

Black

Part No. 401592



Decorative

Black

Part No. 401595



Grill

Black

Part No. 401598

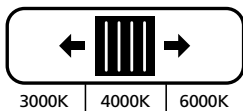
The Hatherton is a multi-configurable bulkhead that offers a comprehensive and versatile solution for your amenity lighting requirements. Designed for ease of installation, the BESA mount base, rear and side knockouts provide the installer easy cable access and flexibility. With over 100 configurable ways, the Hatherton is your complete amenity lighting solution.

Hatherton Multi 3CCT Bulkhead



- Tough and durable body and diffuser
- Wall and ceiling mount
- LED lifespan 50,000 hours L70
- Standard, microwave, emergency, dusk to dawn and 3 step dimming options available
- IK08 impact rated
- Clip-on bezels

CCT switchable
3000K, 4000K & 6000K

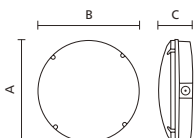


Hatherton

A 300 mm

B 300 mm

C 100 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
401580	Hatherton LED Multi Bulkhead - White	12W	3CCT	<1,228	107	£53.27
401581	Hatherton LED Multi Bulkhead - White	16W	3CCT	<1,710	111	£56.38
401582	Hatherton LED Multi Bulkhead - White	20W	3CCT	<2,128	116	£59.49

Options

Option No.	Description	Trade Price
-M3	Emergency*	+£57.09
-MW	Microwave	+£44.21
-M3-MW	Emergency* & Microwave	+£96.24
-DD	Dusk to Dawn	+£56.58
-M3-DD	Emergency* & Dusk to Dawn	+£107.98
-SD	Step Dim	+£66.10
-M3-SD	Emergency* & Step Dim	+£117.04

Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C
IP Rating	IP66
Connection Type	Push Terminal

LiFePO4



*See page 113 for battery warranties and operating temperatures. ^Lm/W figures based on 4000K output.

Howden 3CCT Bulkhead



Integral microwave sensor option

200lm emergency option

Push fit terminals with loop in and loop out

High efficiency, up to 113Lm/W

3CCT Switchable

IP54 and IK08 rated

Tough and durable polycarbonate



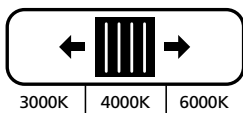
Howden 3CCT Bulkhead



- Tough and durable polycarbonate housing
- Push fit terminals with loop in and loop out
- 200lm emergency option
- 3CCT switchable
- High efficiency, up to 113Lm/W
- IP54 and IK08 rated
- Ideal for stairwells

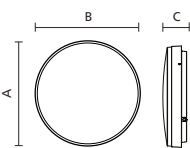


CCT switchable
3000K, 4000K & 6000K



Howden

A	350 mm
B	350 mm
C	65 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430244	Howden LED Bulkhead - White	25W	3CCT	<2,890	113	£103.00

Options

Option No.	Description	Trade Price
-M3	Emergency*	+£57.09
-MW	Microwave	+£44.21
-M3-MW	Emergency* & Microwave	+£96.24

Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C
IP Rating	IP54
Connection Type	Push Terminal

LiFePO4



*See page 113 for battery warranties and operating temperatures. ^Lm/W figures based on 4000K output.

Rydal Wallpack

IP65

130
Lm/W

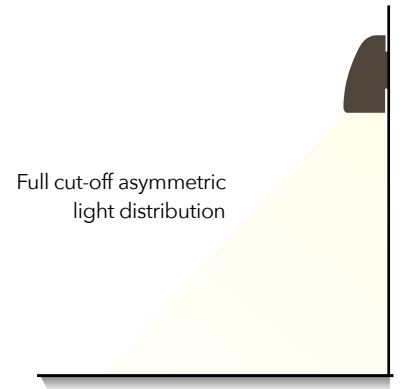
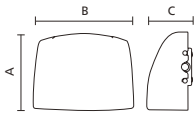
5 YR
Warranty

Rydal wallpack is designed to reduce light pollution using asymmetric optics, perfect for outdoor lighting.

- Tough aluminium body with polycarbonate diffuser
- Wall mount
- LED lifespan 50,000 hours L70
- IK08 impact rated



Rydal	
A	224 mm
B	296 mm
C	162 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430152	Rydal LED Bulkhead - Bronze	40W	4000	5,200	130	£271.15
430153	Rydal LED Bulkhead - Bronze	70W	4000	9,100	130	£308.98

Options

Option No.	Description	Trade Price
-DD	Dusk to Dawn	+£44.42

Technical Information

Input	220-240V AC
Operating Temp	-30°C - +50°C
IP Rating	IP65
Connection Type	Screw Terminal



Hurworth Wallpack

IP65
3CCT
85[^] Lm/W
5 YR Warranty

- Tough aluminium body with polycarbonate diffuser
- Hinged front cover for quick and easy installation
- LED lifespan 50,000 hours L70
- Standard, emergency and dusk to dawn options available
- IK10 impact rated

CCT switchable

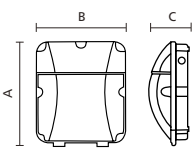
3000K, 4000K & 6000K

3000K | 4000K | 6000K



Hurworth

A	310 mm
B	265 mm
C	122 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430196	Hurworth LED 3CCT Wallpack - Black	30W	3CCT	<2,529	85	£114.08

Options

Option No.	Description	Trade Price
-M3	Emergency*	+£89.46
-DD	Dusk to Dawn	+£56.58
-M3-DD	Emergency* & Dusk to Dawn	+£146.04

Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C
IP Rating	IP65
Connection Type	Screw Terminal

LiFePO4



*See page 113 for battery warranties and operating temperatures. ^Lm/W figures based on 4000K output.



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LINEAR LIGHTING



Sutton
Batten
Pages 28 - 29



Sutton Plus
2CCT Batten
Pages 30 - 31



Stanford
Anti-Corrosive
Pages 32 - 33



Staunton
Anti-Corrosive
Pages 34 - 35



Olton
Academic Batten
Page 36



Covenham
Tubulaire
Page 37



Welford
Tubulaire
Page 38



Ashworth
Linear Louvre
Pages 39 - 40

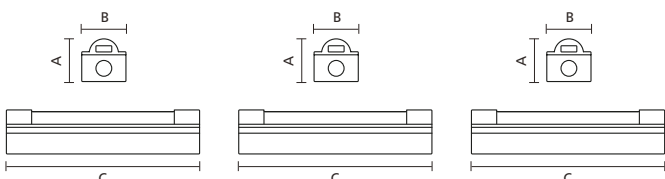
Sutton Batten Single



- Frosted, ribbed polycarbonate diffuser to reduce glare
- Fully extruded aluminium heatsink
- Improved thermals utilising aluminium back PCBs
- Push fit terminals
- 20mm conduit entry
- Additional screw to secure end cap
- H3 - High Output Emergency 440lm option available



4ft	5ft	6ft
A 62 mm	A 62 mm	A 62 mm
B 64 mm	B 64 mm	B 64 mm
C 1220 mm	C 1524 mm	C 1829 mm



PIR Sensor
Part No: 401752
For product details, please see page 104



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430038	Sutton Batten 4ft Single - White	19W	4000K	2,333	123	£64.82
430044	Sutton Batten 4ft Single - White	19W	6000K	2,259	119	£64.82
430040	Sutton Batten 5ft Single - White	27W	4000K	3,087	114	£74.89
430046	Sutton Batten 5ft Single - White	27W	6000K	3,186	118	£74.89
430042	Sutton Batten 6ft Single - White	38W	4000K	4,158	109	£83.90
430048	Sutton Batten 6ft Single - White	38W	6000K	4,166	110	£83.90

Options

Option No.	Description	Lumens	Trade Price
-H3	High Output Emergency*	440	+£99.99
401752	PIR Sensor		+£66.64
401755	Remote Control		+£44.42

Technical Information

Input	220 - 240V AC
Operating Temp	-0°C - +40°C
IP Rating	IP20
Connection Type	Push Terminal

*See page 113 for battery warranties and operating temperatures.

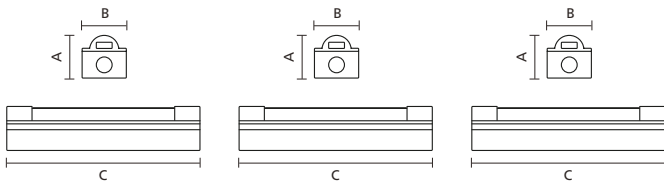
Sutton Batten Twin



- Frosted, ribbed polycarbonate diffuser to reduce glare
- Fully extruded aluminium heatsink
- Improved thermals utilising aluminium back PCBs
- Push fit terminals
- 20mm conduit entry
- Additional screw to secure end cap
- H3 - High Output Emergency 440lm option available



4ft	5ft	6ft
A 62 mm	A 62 mm	A 62 mm
B 64 mm	B 64 mm	B 64 mm
C 1220 mm	C 1524 mm	C 1829 mm



PIR Sensor
Part No: 401752
For product details, please see page 104



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430039	Sutton Batten 4ft Twin - White	38W	4000K	4,385	113	£68.30
430045	Sutton Batten 4ft Twin - White	38W	6000K	4,354	115	£68.30
430041	Sutton Batten 5ft Twin - White	50W	4000K	6,030	121	£91.85
430047	Sutton Batten 5ft Twin - White	50W	6000K	6,321	126	£91.85
430043	Sutton Batten 6ft Twin - White	60W	4000K	6,680	111	£100.98
430049	Sutton Batten 6ft Twin - White	60W	6000K	7,018	117	£100.98

Options

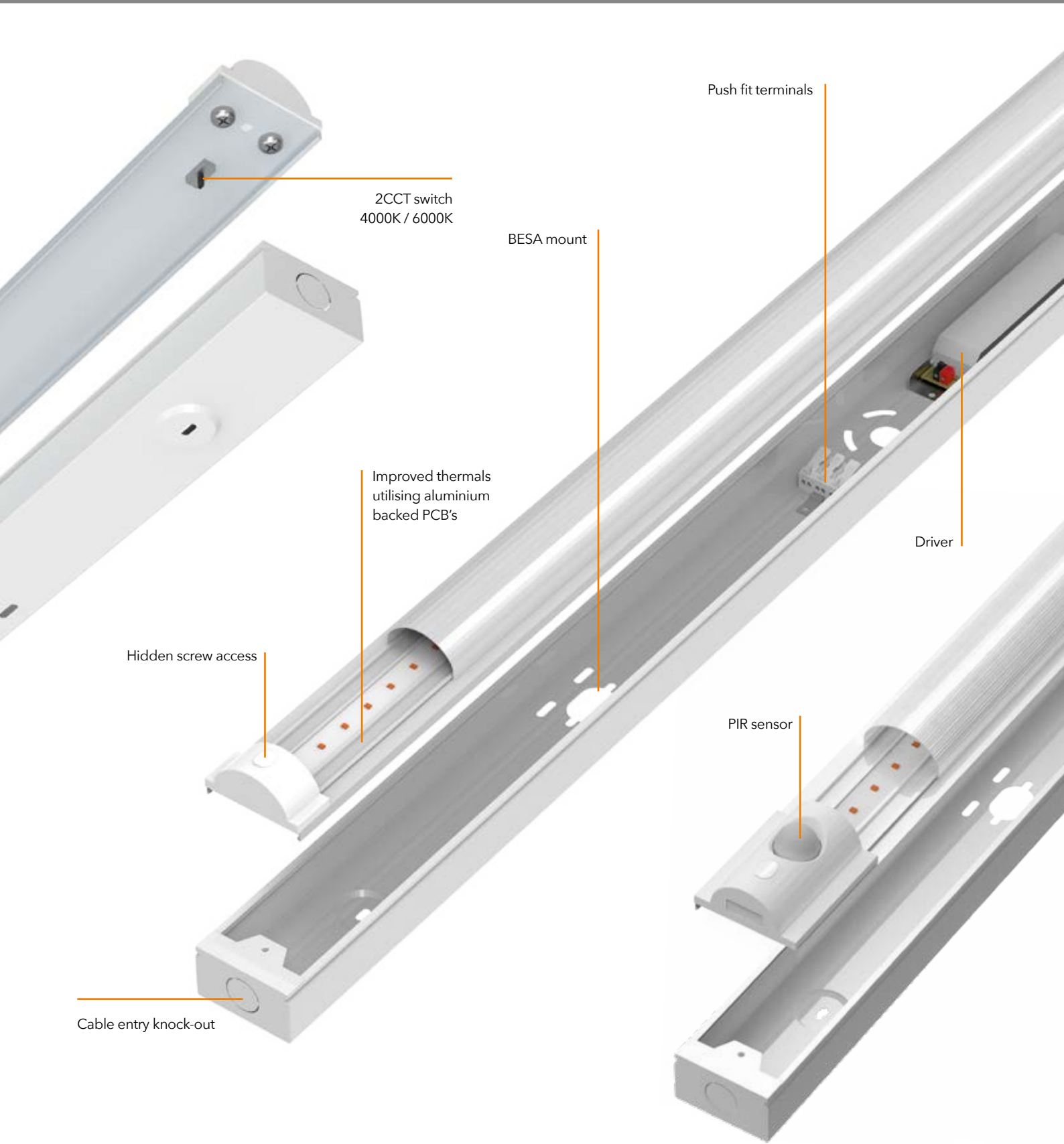
Option No.	Description	Lumens	Trade Price
-H3	High Output Emergency*	440	+£99.99
401752	PIR Sensor		+£66.64
401755	Remote Control		+£44.42

Technical Information

Input	220 - 240V AC
Operating Temp	-0°C - +40°C
IP Rating	IP20
Connection Type	Push Terminal

*See page 113 for battery warranties and operating temperatures.

Sutton Plus Batten 2CCT with PIR option



Sutton Plus Batten 2CCT Single & Twin

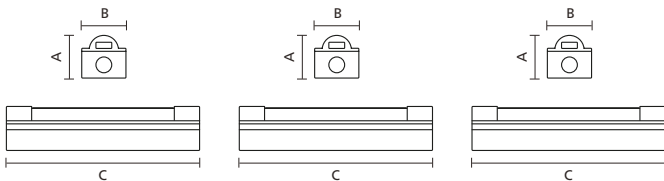


- Frosted, ribbed polycarbonate diffuser to reduce glare
- Fully extruded aluminium heatsink
- Improved thermals utilising aluminium back PCBs
- Push fit terminals
- 20mm conduit entry
- Additional screw to secure end cap
- H3 - High Output Emergency 440lm option available



Available to order from August

4ft	5ft	6ft
A 62 mm	A 62 mm	A 62 mm
B 64 mm	B 64 mm	B 64 mm
C 1220 mm	C 1524 mm	C 1829 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430402	Sutton Plus 2CCT Batten 4ft Single - White	19W	4000K/6000K	<2,100	110	£81.87
430403	Sutton Plus 2CCT Batten 4ft Twin - White	38W	4000K/6000K	<4,200	110	£86.04
430395	Sutton Plus 2CCT Batten 5ft Single - White	27W	4000K/6000K	<3,000	111	£95.28
430396	Sutton Plus 2CCT Batten 5ft Twin - White	50W	4000K/6000K	<5,700	114	£115.62
430397	Sutton Plus 2CCT Batten 6ft Single - White	38W	4000K/6000K	<4,200	110	£107.50
430398	Sutton Plus 2CCT Batten 6ft Twin - White	60W	4000K/6000K	<6,600	110	£127.98

Options

Option No.	Description	Lumens	Trade Price
-H3	High Output Emergency*	440	+£66.42
-PIR	Integral PIR		+£57.77
-H3-PIR	High Output Emergency* & Integral PIR	440	+£122.19

Technical Information

Input	220 - 240V AC
Operating Temp	-0°C - +40°C
IP Rating	IP20
Connection Type	Push Terminal



*See page 113 for battery warranties and operating temperatures. ^Lm/W figures based on 4000K output.

Stanford Anti-Corrosive Single

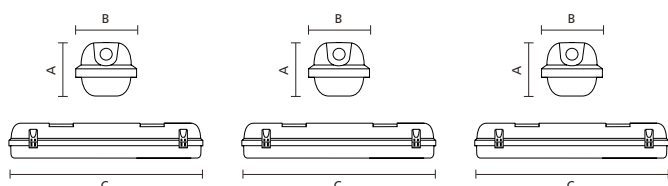


POWERED BY : ENEC
TRIDONIC

- High efficacy up to 149Lm/W
- Anti-distortion housing
- Improved thermals utilising aluminium back PCBs
- Opal, ribbed polycarbonate diffuser to reduce glare
- Stainless steel clips
- H3 - High Output Emergency 440lm option available



4ft		5ft		6ft	
A	90 mm	A	90 mm	A	90 mm
B	100 mm	B	100 mm	B	100 mm
C	1274 mm	C	1574 mm	C	1837 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430026	Stanford Anti-Corrosive 4ft Single - Grey	19W	4000K	2,505	132	£68.78
430032	Stanford Anti-Corrosive 4ft Single - Grey	19W	5000K	2,837	149	£68.78
430028	Stanford Anti-Corrosive 5ft Single - Grey	27W	4000K	3,664	135	£78.79
430034	Stanford Anti-Corrosive 5ft Single - Grey	27W	5000K	3,927	145	£78.79
430030	Stanford Anti-Corrosive 6ft Single - Grey	38W	4000K	4,545	120	£110.17
430036	Stanford Anti-Corrosive 6ft Single - Grey	38W	5000K	5,199	137	£110.17

Options

Option No.	Description	Lumens	Trade Price
-H3	High Output Emergency*	440	+£93.92
-MW	Microwave		+£54.08
-H3-MW	High Output Emergency* & Microwave Sensor	440	+£148.01
-SD**	Step Dim Sensor		+£110.92
-H3-SD**	High Output Emergency* & Step Dim Sensor	440	+£204.84

Technical Information

Input	220 - 240V AC
Operating Temp	-20°C - +40°C
IP Rating	IP65
IK Rating	IK08
Connection Type	Screw Terminal



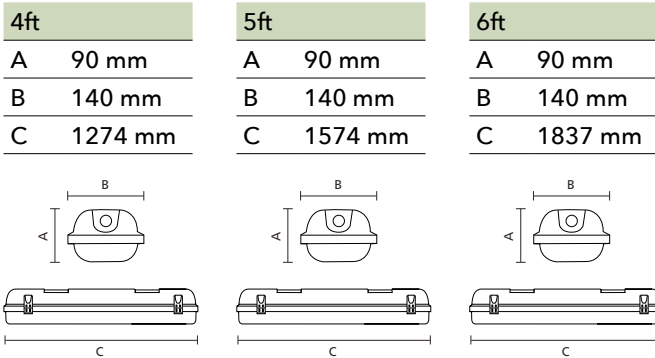
*See page 113 for battery warranties and operating temperatures. **Not available on 4ft single.

Stanford Anti-Corrosive Twin



POWERED BY : ENEC
TRIDONIC

- High efficacy up to 146Lm/W
- Anti-distortion housing
- Improved thermals utilising aluminium back PCBs
- Opal, ribbed polycarbonate diffuser to reduce glare
- Stainless steel clips
- H3 - High Output Emergency 440lm option available



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430027	Stanford Anti-Corrosive 4ft Twin - Grey	38W	4000K	4,736	125	£98.16
430033	Stanford Anti-Corrosive 4ft Twin - Grey	38W	5000K	5,683	146	£98.16
430029	Stanford Anti-Corrosive 5ft Twin - Grey	57W	4000K	7,400	127	£112.18
430035	Stanford Anti-Corrosive 5ft Twin - Grey	57W	5000K	8,353	138	£112.18
430031	Stanford Anti-Corrosive 6ft Twin - Grey	72W	4000K	8,871	125	£140.22
430037	Stanford Anti-Corrosive 6ft Twin - Grey	72W	5000K	9,720	132	£140.22

Options

Option No.	Description	Lumens	Trade Price
-H3	High Output Emergency*	440	+£93.92
-MW	Microwave		+£54.08
-H3-MW	High Output Emergency* & Microwave Sensor	440	+£148.01
-SD**	Step Dim Sensor		+£110.92
-H3-SD**	High Output Emergency* & Step Dim Sensor	440	+£204.84

Technical Information

Input	220 - 240V AC
Operating Temp	-20°C - +40°C
IP Rating	IP65
IK Rating	IK08
Connection Type	Screw Terminal



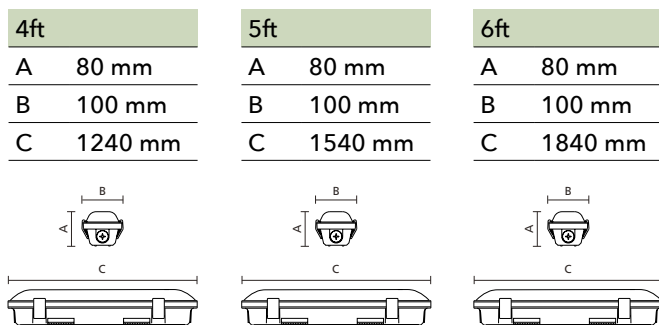
*See page 113 for battery warranties and operating temperatures. **Not available on 6ft twin.

Staunton Anti-Corrosive Single & Twin

IP65
IK08
50,000 Hours
147 Lm/W
5 YR Warranty

POWERED BY **TRIDONIC**

- Quick release gear tray for faster installation
- Threaded 20mm cable entry
- Push fit terminals
- Stainless steel clips
- H3 - High Output Emergency 440lm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430197	Staunton LED Anti-Corrosive 4ft Single - Grey	19W	4000K	2,507	132	£75.90
430199	Staunton LED Anti-Corrosive 5ft Single - Grey	27W	4000K	3,970	147	£86.22
430201	Staunton LED Anti-Corrosive 6ft Single - Grey	38W	4000K	4,827	127	£107.66
430198	Staunton LED Anti-Corrosive 4ft Twin - Grey	36W	4000K	5,065	140	£80.00
430200	Staunton LED Anti-Corrosive 5ft Twin - Grey	52W	4000K	6,579	126	£91.75
430202	Staunton LED Anti-Corrosive 6ft Twin - Grey	56W	4000K	7,163	127	£117.29

Options

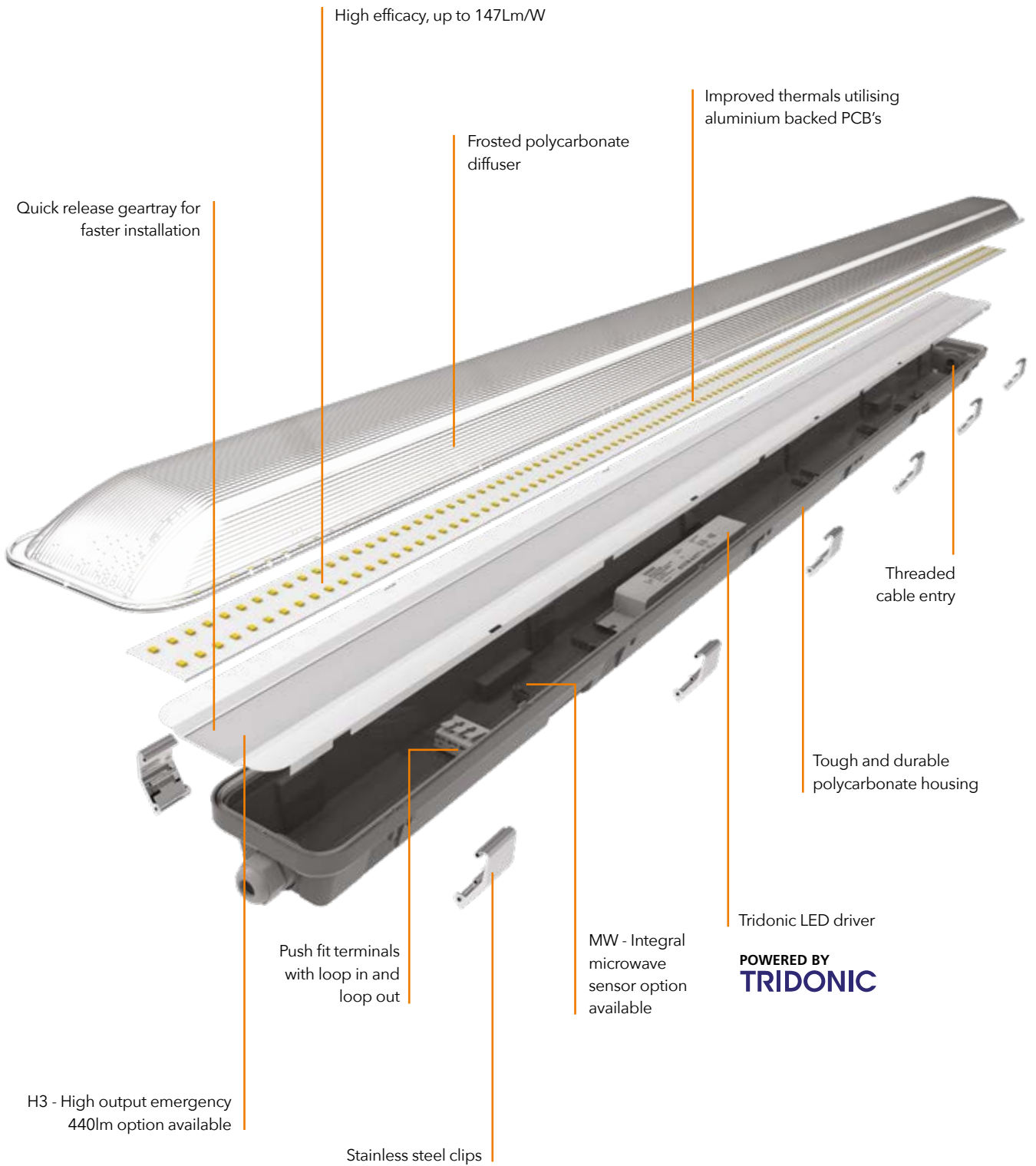
Option No.	Description	Lumens	Trade Price
-H3	High Output Emergency*	440	+£89.46
-MW	Microwave		+£55.55
-H3-MW	High Output Emergency* & Microwave Sensor	440	+£145.01

Technical Information

Input	220 - 240V AC
Operating Temp	-20°C - +40°C
IP Rating	IP65
Connection Type	Push Terminal

*See page 113 for battery warranties and operating temperatures.

Staunton Anti-Corrosive Single & Twin



Olton Academic Batten Single & Twin

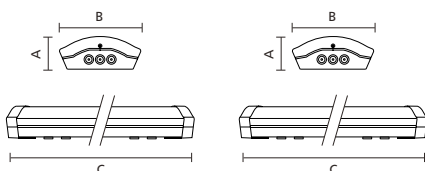


Olton Academic Batten, perfect for the educational sector with open or corridor optic emergency options to maximise emergency lux levels.

- Robust steel body
- Multi 20mm conduit entry
- Opal, ribbed polycarbonate diffuser to reduce glare
- Open and Corridor emergency options available



4ft		5ft	
A	83 mm	A	83 mm
B	203 mm	B	203 mm
C	1190 mm	C	1490 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
401611	Olton Academic Batten 4ft Twin - White	38W	4000K	4,314	112	£165.85
401612	Olton Academic Batten 5ft Single - White	30W	4000K	3,360	112	£185.31
401613	Olton Academic Batten 5ft Twin - White	58W	4000K	6,377	112	£200.77

Options

Option No.	Description	Trade Price
-M3S	Open Area Emergency* Self-Test	+£119.17
-MW	Microwave	+£75.30
-M3S-MW	Open Area Emergency* & Microwave Sensor Self-Test	+£182.20

Technical Information

Input	220 - 240V AC
Operating Temp	-0°C - +45°C
IP Rating	IP20
Connection Type	Push Terminal

*See page 113 for battery warranties and operating temperatures.

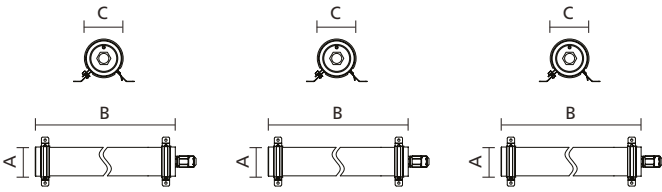
Covenham Tubulaire



- IP69K against water pressure of 100bar (1450psi) and temperature of 80°C
- PMMA cover anti-corrosion, polycarbonate cover (IK10)
- Surface or suspended
- 316 stainless steel end caps
- NFS Food Safe Certification



2ft		4ft		5ft	
A	84 mm	A	84 mm	A	84 mm
B	600 mm	B	1128 mm	B	1440 mm
C	84 mm	C	84 mm	C	84 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430090	Covenham Tubulaire 2ft - Frosted PC	20W	5000K	2,688	134	£380.17
430091	Covenham Tubulaire 4ft - Frosted PC	40W	5000K	5,419	135	£442.02
430092	Covenham Tubulaire 5ft - Frosted PC	50W	5000K	6,862	137	£475.96
430090-TW	Covenham Tubulaire 2ft Through Wired - Frosted PC	20W	5000K	2,688	134	£390.73
430091-TW	Covenham Tubulaire 4ft Through Wired - Frosted PC	40W	5000K	5,419	135	£455.60
430092-TW	Covenham Tubulaire 5ft Through Wired - Frosted PC	50W	5000K	6,862	137	£489.53
430092-PMMA	Covenham Tubulaire 5ft PMMA - Frosted PC	50W	5000K	6,650	130	£492.55
430092-PMMA-TW	Covenham Tubulaire 5ft PMMA Through Wired - Frosted PC	50W	5000K	6,650	130	£506.13

Options

Option No.	Description	Trade Price
430093	Suspension Kit	£143.35

Technical Information

Input	220 - 240V AC
Operating Temp	-30°C - +50°C
IP Rating	IP66 IP69K
Connection Type	Push Terminal



NEW

Welford Tubulaire



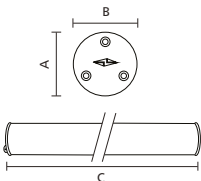
- Ideal for harsh environments
- IP67 & IK10 rated
- Full polycarbonate throughout
- -H3 High Output Emergency option available
- -MW Microwave option available
- Stainless Steel brackets included



Available to order from July

5ft

A	74 mm
B	74 mm
C	1485 mm



430351

Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
420542	Welford Tubulaire 5ft - Frosted	65W	5000K	7,621	119	£193.76
430351	Stainless Steel Bracket					£10.00

Options

Option No.	Description	Lumens	Trade Price
-H3	High Output Emergency*	500	+£93.92
-MW	Microwave		+£54.08
-H3-MW	High Output Emergency* & Microwave Sensor	500	+£202.20

Technical Information

Input	220 - 240V AC
Operating Temp	-20°C - +45°C
IP Rating	IP67
Connection Type	Push Terminal

*See page 113 for battery warranties and operating temperatures.

Ashworth Linear Louvre

IP20

120°

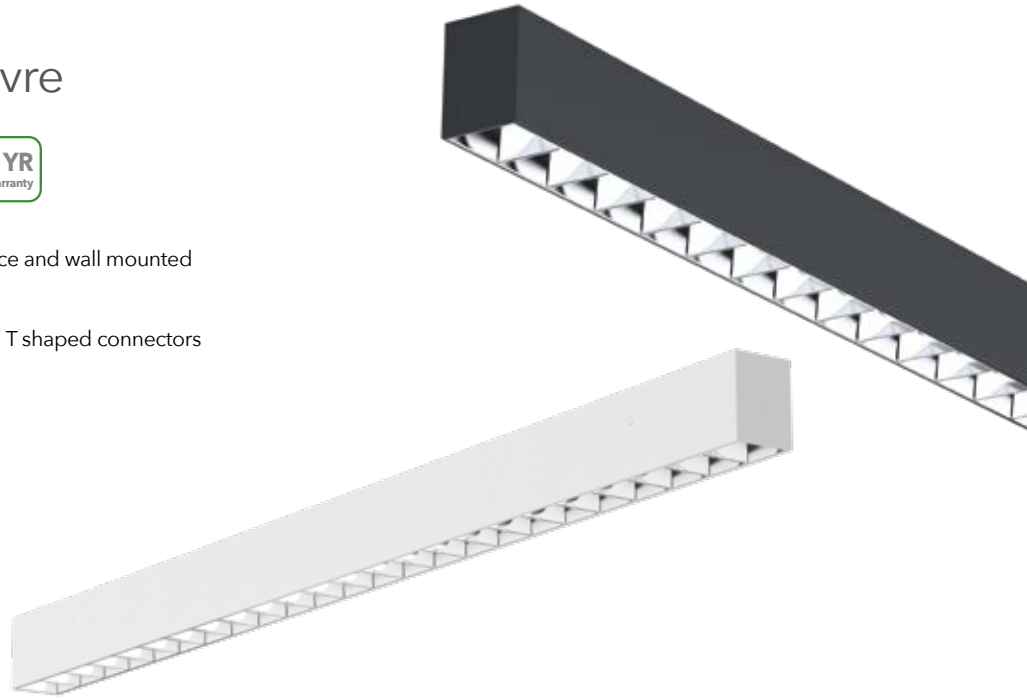
Flicker Free

50,000 Hours

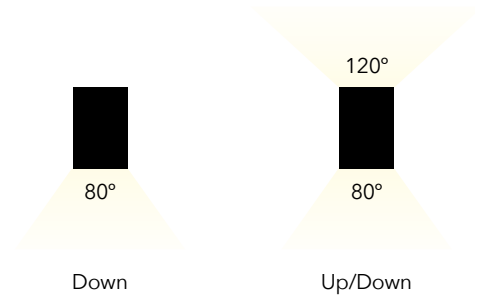
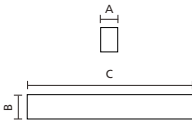
<19 UGR

5 YR Warranty

- Multiple installation options - Pendant, surface and wall mounted
- Modular seamless design
- Linkable utilising optional corners, cross and T shaped connectors
- Down and Up/Down variants available



5ft	
A	56 mm
B	75 mm
C	1504 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430271-WH	Ashworth Linear Louvre Down 5ft - White	42W	4000K	4,410	105	£343.17
430271-BL	Ashworth Linear Louvre Down 5ft - Black	42W	4000K	4,410	105	£343.17
430272-WH	Ashworth Linear Louvre Up/Down 5ft - White	50W	4000K	5,250	105	£392.19
430272-BL	Ashworth Linear Louvre Up/Down 5ft - Black	50W	4000K	5,250	105	£392.19

Options

Option No.	Description	Trade Price
-M3	Emergency*	+£82.96

Technical Information

Input	220 - 240V AC
Operating Temp	-0°C - +45°C
IP Rating	IP20
Connection Type	Push Terminal

*See page 113 for battery warranties and operating temperatures.

Ashworth installation options

The below illustration shows the versatility of the Ashworth installation options.

Part No.	Description	Trade Price
430273	Recessed Kit	£12.82
430274	Straight Link	£9.05
430275	L Link	£33.94
430276	T Link	£41.48
430277	X Link	£49.02
430278	Wall Mount Kit	£2.26
430279	Pendant Install 1000mm Cable 2 x 1000mm suspension wires	£37.33
430280	Pendant 0-10V Install 1000mm Cable 2 x 1000mm suspension wires	£39.22
430281	2 x 1000mm suspension wires	£15.08

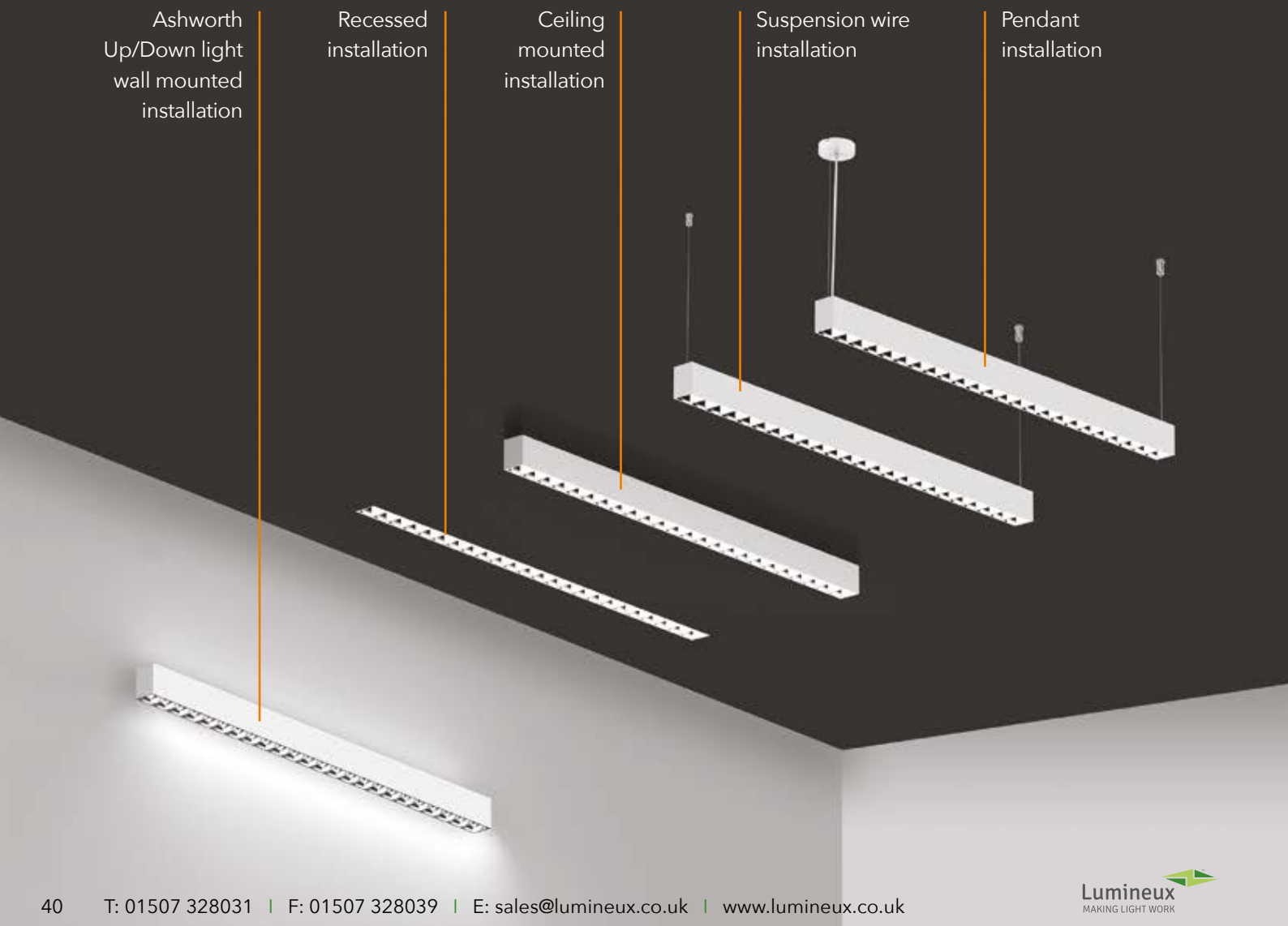
Ashworth
Up/Down light
wall mounted
installation

Recessed
installation

Ceiling
mounted
installation

Suspension wire
installation

Pendant
installation



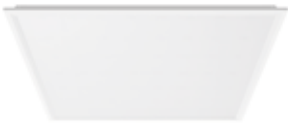
Lumineux products installed: **Wraysbury Panels**



COMMERCIAL LIGHTING



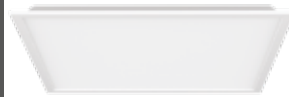
NEW
10x Multipack



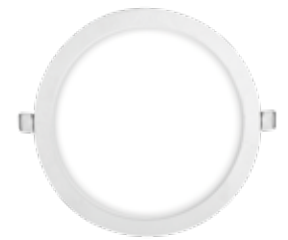
Wraysbury
600 x 600 Panel
Page 44



Wraysbury
600 x 600 UGR Panel
Page 45



Wraysbury
1200 x 600 Panel
Page 46



Meldon
Downlight
Page 47

NEW



Avon
Fire Rated Downlight
Pages 48-49



Eyebrook Dome
Downlight
Page 50



Eyebrook Lens
Downlight
Pages 51-52

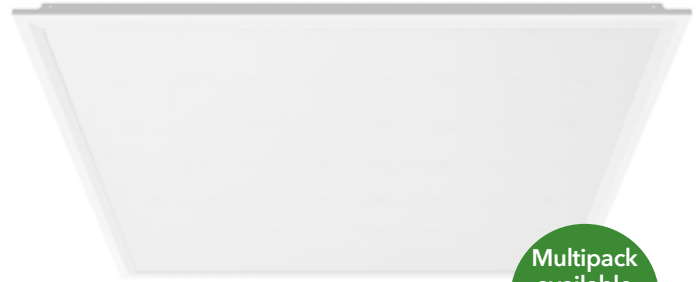


Eyebrook Surface
Downlight
Page 53

Wraysbury 600 x 600 Panel



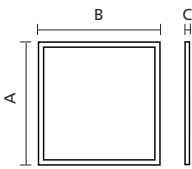
- Optic lens for even light distribution
- Better uniformity and heat dissipation
- Flicker free



Multipack available from August

10x Multipack
INDIVIDUALLY WRAPPED WITH DRIVER
80% REDUCED PACKAGING

Wraysbury	
A	595 mm
B	595 mm
C	38 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430057	Wraysbury Panel 600x600 TP (b) - White	36W	4000K	3,590	100	£63.23
430057-MP	Wraysbury Panel 600x600 TP (a) - White 10x Multipack	36W	4000K	3,590	100	£610.92
430059	Wraysbury Panel 600x600 TP (b) - White	36W	6000K	3,530	98	£63.23
430115	Wraysbury Panel 600x600 TP (a) - White	36W	3CCT	<3,600	100	£88.40

Options

Option No.	Description	Trade Price
430147	Ceiling Pattress Kit	Call for details
401417	Emergency* Pack	+£110.35

Technical Information

Input	220 - 240V AC
Operating Temp	-0°C - +40°C
IP Rating	IP40
Connection Type	Flying Lead

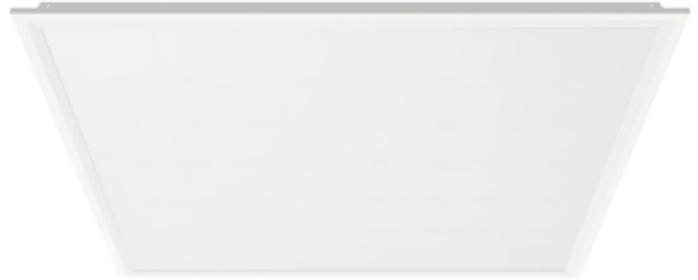


*See page 113 for battery warranties and operating temperatures. ^Lm/W figures based on 4000K output.

Wraysbury 600 x 600 UGR Panel



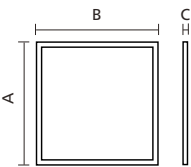
The Wraysbury UGR panels are equipped with microprismatic TP (a) diffusers to ensure UGR <19. It's a high efficiency luminaire with up to 120Lm/W and an optic lens design for even light distribution.



- Slim moulded steel profile
- UGR <19
- Flicker free
- Optic lens for even light distribution
- Microprismatic TP (a) diffuser

Wraysbury

A	595 mm
B	595 mm
C	38 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430118	Wraysbury Panel 600x600 UGR TP (a) - White	28W	4000K	3,294	120	£102.07
430119	Wraysbury Panel 600x600 UGR TP (a) - White	28W	6000K	3,590	125	£102.07

Options

Option No.	Description	Trade Price
430147	Ceiling Pattress	Call for details
401417	Emergency* Pack	+£110.35

Technical Information

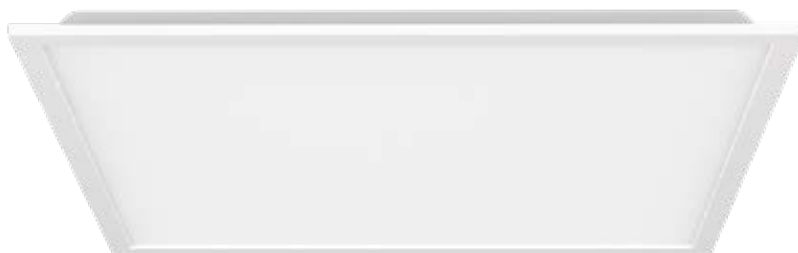
Input	220 - 240V AC
Operating Temp	-0°C - +40°C
IP Rating	IP40
Connection Type	Flying Lead

*See page 113 for battery warranties and operating temperatures.

Wraysbury 1200 x 600 Panel

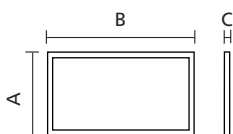


- Optic lens for even light distribution
- Better uniformity and heat dissipation
- Flicker free
- TP (a) rated diffuser



Wraysbury

A	595 mm
B	1195 mm
C	38 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430116	Wraysbury Panel TP (a) 1200x600 - White	48W	4000K	5,542	115	£214.79
430117	Wraysbury Panel TP (a) 1200x600 - White	48W	6000K	5,580	116	£214.79

Options

Option No.	Description	Trade Price
420596	Ceiling Pattress	Call for details
401417	Emergency* Pack	+£110.35

Technical Information

Input	220 - 240V AC
Operating Temp	-0°C - +40°C
IP Rating	IP40
Connection Type	Flying Lead

*See page 113 for battery warranties and operating temperatures.

Meldon Slimline Downlights



- Quick Installation
- Dimmable driver options available
- Edge-lit low profile for install with minimal ceiling voids
- Ultra low profile



	12W	15W	18W	20W	22W
	A 170 mm	A 190 mm	A 225 mm	A 240 mm	A 300 mm
	B 170 mm	B 190 mm	B 225 mm	B 240 mm	B 300 mm
	C 12 mm	C 12 mm	C 12 mm	C 12 mm	C 12 mm

Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430064	Meldon Slimline Downlight - White	12W	4000K	800	67	£31.68
430067	Meldon Slimline Downlight - White	15W	4000K	1,050	70	£38.99
430070	Meldon Slimline Downlight - White	18W	4000K	1,450	81	£43.37
430073	Meldon Slimline Downlight - White	20W	4000K	1,700	85	£47.14
430076	Meldon Slimline Downlight - White	22W	4000K	1,910	87	£66.97

Options

Option No.	Description	Trade Price
401417	Emergency* Pack	+£110.35

Technical Information

Input	220 - 240V AC
Operating Temp	-0°C - +40°C
IP Rating	IP20
Connection Type	Screw Terminal

*See page 113 for battery warranties and operating temperatures.

NEW

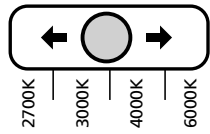
Avon Fire Rated Downlight



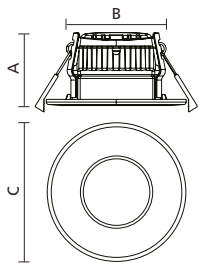
- Complies with parts B, C, E and L of Building Regulations
- Fully tested for 30, 60 and 90 minutes
- Tested and certified for use in Solid Joist, I-Joist and Steel Open Web Joist ceilings
- Suitable for solid or stranded cable Ø 0.75 - 2.5mm²
- Designed to work with insulation
- 60° beam angle

4CCT switchable

2700K, 3000K, 4000K & 6000K



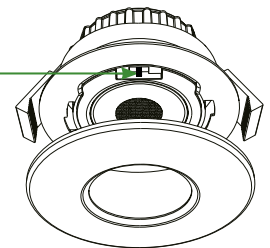
Avon	
A	50 mm
B	65 mm
C	88 mm



4CCT switch

Part Code: 430378

Twist & Lock bezel design



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430378	Avon Fire Rated Downlight 4CCT 60° - White	7W	4CCT	<720	<103 [^]	£39.22
430378-MP	Avon Fire Rated Downlight 4CCT 60° - White 8x Multipack	7W	4CCT	<720	<103 [^]	£262.32

Bezel Options

Option No.	Description	Trade Price
430380	Avon Bezel - Chrome	+£3.33
430381	Avon Bezel - Brushed Chrome	+£3.33
430382	Avon Bezel - White	+£2.44

Technical Information

Input	220 - 240V AC
Operating Temp	-10°C - +40°C
IP Rating	IP65
Connection Type	Leaver Terminal

*See page 113 for battery warranties and operating temperatures. [^]Lm/W figures based on 4000K output.

NEW

Avon Fire Rated Gimbal Downlight

IP65

4CCT

5 YR
Warranty

50,000
Hours

Flicker
Free

30, 60, 90 min

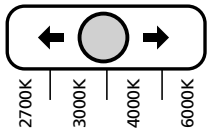
- Complies with parts B, C, E and L of Building Regulations
- Fully tested for 30, 60 and 90 minutes
- Tested and certified for use in Solid Joist, I-Joist and Steel Open Web Joist ceilings
- Suitable for solid or stranded cable Ø 0.75 - 2.5mm²
- Designed to work with insulation
- 60° beam angle, plus extra 30° angle for Gimbal



Avon available to order from August

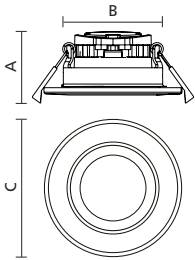
4CCT switchable

2700K, 3000K, 4000K & 6000K



Avon Gimbal

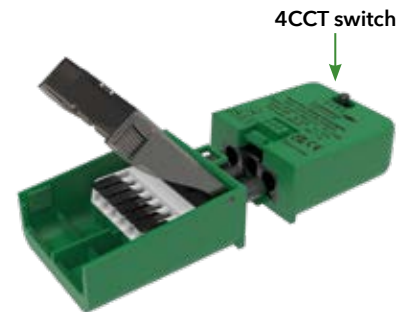
A	38 mm
B	65 mm
C	87 mm



I-Joist
Certified

Solid Joist
Certified

Open Web
Joist Certified



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430373	Avon Fire Rated Gimbal Downlight 4CCT 60° - White	7W	4CCT	<720	<103 [^]	£39.22

Bezel Options

Option No.	Description	Trade Price
430374	Avon Gimbal Bezel - Chrome	+£3.62
430375	Avon Gimbal Bezel - Brushed Chrome	+£3.33
430376	Avon Gimbal Bezel - White	+£2.44

Technical Information

Input	220 - 240V AC
Operating Temp	-10°C - +40°C
IP Rating	IP65
Connection Type	Leaver Terminal



*See page 113 for battery warranties and operating temperatures. ^Lm/W figures based on 4000K output.



Eyebrook Dome Downlights

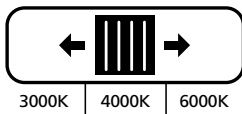


- Interchangeable reflectors and trims. See accessories
- 3CCT downlight
- Aluminium heatsink provides excellent thermals
- 80° beam angle



CCT switchable

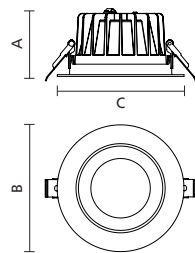
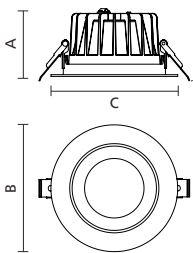
3000K, 4000K & 6000K



12W	
A	78 mm
B	145 mm
C	145 mm



16W, 22W	
A	90 mm
B	172 mm
C	172 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430203	Eyebrook Dome Downlight Semi-Specular 80° 4" - White	12W	3CCT	<1,294	<110^	£62.43
430204	Eyebrook Dome Downlight Semi-Specular 80° 6" - White	16W	3CCT	<1,785	<110^	£81.97
430205	Eyebrook Dome Downlight Semi-Specular 80° 6" - White	22W	3CCT	<2,360	<110^	£85.13

Options

Option No.	Description	Trade Price
401417	Emergency* Pack	+£110.35

See page 52 for accessories.

Technical Information

Input	220 - 240V AC
Operating Temp	-20°C - +45°C
IP Rating	IP54
Connection Type	Flying Lead

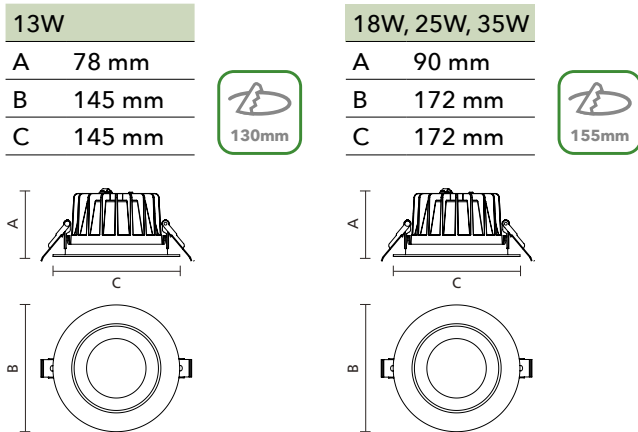


*See page 113 for battery warranties and operating temperatures. ^Lm/W figures based on 4000K output.

Eyebrook Lens Downlights

IP54
<19 UGR
60°
5 YR Warranty

- Interchangeable reflectors and trims. See accessories
- High efficiency up to 130Lm/W
- UGR <19
- Aluminium heatsink provides excellent thermals



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430206	Eyebrook Lens Downlight UGR Semi-Specular 60° 4" - White	13W	4000K	1,701	139	£93.60
430207	Eyebrook Lens Downlight UGR Semi-Specular 60° 6" - White	18W	4000K	2,244	129	£110.94
430208	Eyebrook Lens Downlight UGR Semi-Specular 60° 6" - White	25W	4000K	2,827	117	£113.89
430209	Eyebrook Lens Downlight UGR Semi-Specular 60° 6" - White	35W	4000K	3,770	110	£124.07

Options

Option No.	Description	Trade Price
401417	Emergency* Pack	+£110.35

Technical Information

Input	220 - 240V AC
Operating Temp	-20°C - +45°C
IP Rating	IP54
Connection Type	Flying Lead

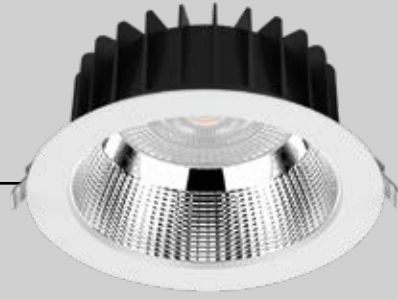
See page 52 for accessories.

*See page 113 for battery warranties and operating temperatures.

Eyebrook Accessories



Eyebrook Dome



Eyebrook Lens

Reflectors



Specular Reflector
4" Part No: 430211
6" Part No: 430214



Silver Reflector
4" Part No: 430258
6" Part No: 430259



White Reflector
4" Part No: 430213
6" Part No: 430216



Black Reflector
4" Part No: 430212
6" Part No: 430215

Trims



Anti Tamper Trim
4" Part No: 430219
6" Part No: 430222



Halo Trim
4" Part No: 430221
6" Part No: 430224



Drop Glass Trim
4" Part No: 430220
6" Part No: 430223

Trim Extenders



6" to 8" Extender
Part No: 430210

Option No.	Description	Trade Price
430211	4" Reflector Specular	+£6.36
430212	4" Reflector Black	+£6.36
430213	4" Reflector White	+£6.36
430258	4" Reflector Silver	+£6.36
430214	6" Reflector Specular	+£8.90
430215	6" Reflector Black	+£8.90
430216	6" Reflector White	+£8.90
430259	6" Reflector Silver	+£8.90

Option No.	Description	Trade Price
430217	4" Bezel Black	+£8.90
430218	6" Bezel Black	+£8.90
430219	4" Trim Anti-Tamper	+£24.17
430220	4" Trim Drop Glass	+£13.99
430221	4" Trim Halo	+£24.17
430222	6" Trim Anti-Tamper	+£30.52
430223	6" Trim Drop Glass	+£15.90
430224	6" Trim Halo	+£30.52
430210	6" to 8" Extender	+£22.26

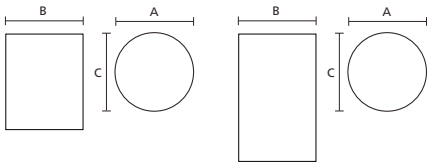
Eyebrook Surface Downlights



- Low glare lens design
- Compact modern cylindrical mounted design
- Easy installation
- Integrated LED driver



15W		25W	
A	100 mm	A	120 mm
B	100 mm	B	120 mm
C	134 mm	C	144 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430227-WH	Eyebrook Surface Lens Downlight Semi-Specular 60° 4" - White	15W	4000K	1,600	106	£105.59
430227-BL	Eyebrook Surface Lens Downlight Semi-Specular 60° 4" - Black	15W	4000K	1,600	106	£105.59
430228-WH	Eyebrook Surface Lens Downlight Semi-Specular 60° 4" - White	25W	4000K	2,650	106	£142.55
430228-BL	Eyebrook Surface Lens Downlight Semi-Specular 60° 4" - Black	25W	4000K	2,650	106	£142.55

Technical Information

Input	220 - 240V AC
Operating Temp	-20°C - +45°C
IP Rating	IP54
Connection Type	Push Terminal





TRUSMART LIGHTING



Troffer Smart Panel
truSmart Lighting
Page 56



Smart Linear Batten
truSmart Lighting
Page 57



truSmart PIR Sensor
truSmart Lighting
Page 58

To keep updated with latest truSmart products contact Lumineux or your Regional Sales Manager.

Install - Connect - Control

truSmart

Troffer Smart Panel

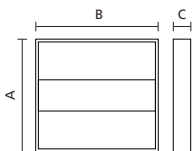


The sleek appearance of the Smart LED Troffer is designed to enhance office, retail and healthcare interiors with high efficacy output.

- Bluetooth control
- Volumetric distribution
- Daylight dimming
- Occupancy sensing



Troffer	
A	595 mm
B	595 mm
C	72 mm



Smart Wall Controller

Wireless switch



- ✓ Bluetooth Mesh
- ✓ Group control
- ✓ Daylight harvesting
- ✓ Manual dimming
- ✓ Scene selection
- ✓ Schedules
- ✓ Auto brightness
- ✓ Auto calibration
- ✓ Timers



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
415030	truSmart Troffer Panel 600 x 600 - White	26W	4000K	3,380	130	£274.35

Options

415035	truSmart Bluetooth Wall Controller	+£169.25
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Sensor Information

Sensor Type	PIR
Mounting Height MAX	3M
Detection Area	6M
Wireless Grouping	Yes

Technical Information

Input	100 - 240V AC
Operating Temp	-0°C - +40°C
IP Rating	IP20
Connection Type	Terminal Block



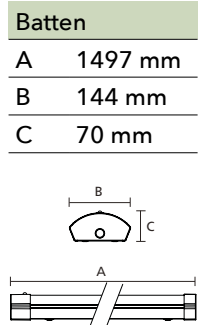
All apps are available from the Apple App Store for iOS and Google Play Store for Android.

Batten Smart Linear Batten



The smooth lines of the Smart Linear Batten, coupled with the ribbed diffuser enhances the light distribution for a soft and comfortable environment.

- Bluetooth control
- Internal ribbed diffuser
- Daylight dimming
- Occupancy sensing



- ✓ Bluetooth Mesh
- ✓ Group control
- ✓ Daylight harvesting
- ✓ Manual dimming
- ✓ Scene selection
- ✓ Schedules
- ✓ Auto brightness
- ✓ Auto calibration
- ✓ Timers

Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
415037	truSmart Batten 5ft - White	50W	4000K	7,074	139	£350.89
415037-M3	truSmart Batten 5ft Emergency - White	50W	4000K	7,074	139	£602.14

Options

415035	truSmart Bluetooth Wall Controller	+£169.25
--------	------------------------------------	----------

Sensor Information

Sensor Type	PIR
Mounting Height MAX	3M
Detection Area	6M
Wireless Grouping	Yes

Technical Information

Input	100 - 240V AC
Operating Temp	-20°C - +40°C
IP Rating	IP20
Connection Type	Terminal Block



*See page 113 for battery warranties and operating temperatures. All apps are available from the Apple App Store for iOS and Google Play Store for Android.



truSmart PIR Sensor



Features and benefits include:

- ✓ Bluetooth Mesh
- ✓ Group control
- ✓ Daylight harvesting
- ✓ Manual dimming
- ✓ Scene selection
- ✓ Schedules
- ✓ Auto brightness
- ✓ Auto calibration
- ✓ Timers

Industrial light fittings where this sensor is available as an option:

Foremark
High Bay - Plug & Play



See page 66 in the Industrial Section

Belmont
Linear High Bay - Plug & Play



See page 71 in the Industrial Section



All apps are available from the Apple App Store for iOS and Google Play Store for Android.



Lumineux
MAKING LIGHT WORK



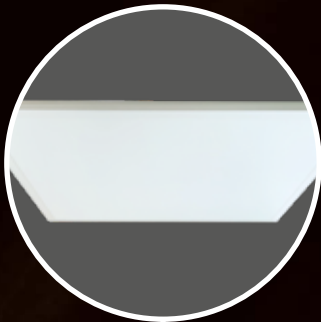
The illustration demonstrates how Lumineux lighting products have been developed to provide the complete solution for commercial and industrial facilities.



Lumineux
MAKING LIGHT WORK

Office & Reception
Wraysbury
Panels

See pages 44 - 46



Warehouse Aisle
Belmont Linear
High Bay Plug & Play

See page 71



Open Area Warehouse
Foremark
High Bay Plug & Play

See pages 66 - 67



Loading Bay
Frankly Plus
Floodlights

See pages 78 - 79



Car Park
Windermere
Street Lighting

See page 83



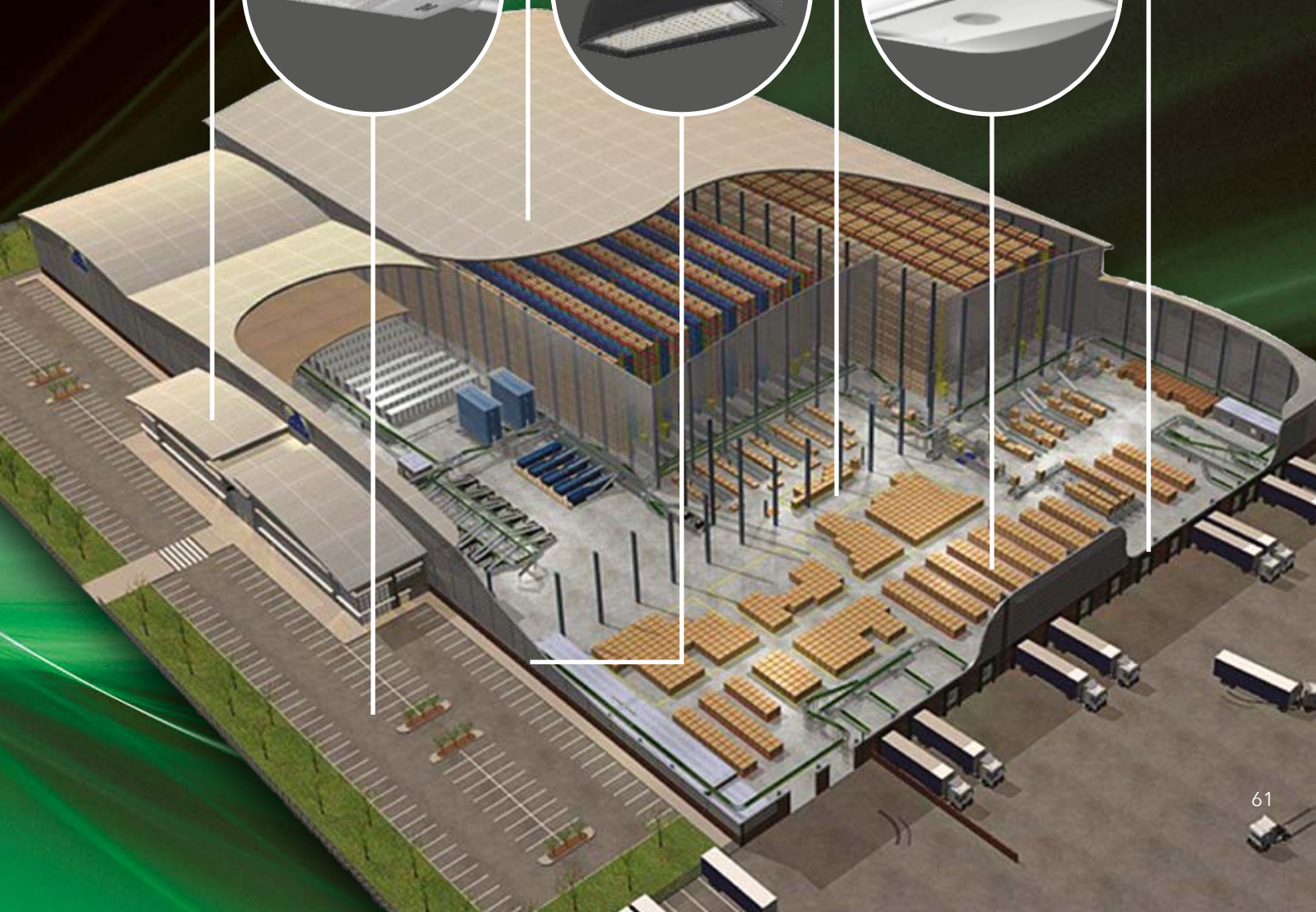
External Walls
Rydal
Amenity Lighting

See page 23



Emergency Exit
Napton
High Level Emergency

See page 92





INDUSTRIAL LIGHTING



Meadley
High Bay
Page 64



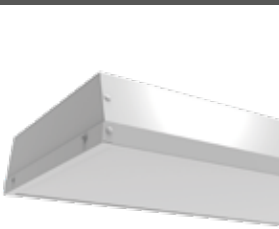
Loscoe
High Temp High Bay
Page 65



Foremark
High Bay Plug & Play
Pages 66 - 67



Reva
High Bay
Page 68



Derwent
Low Bay
Page 69



Netherton
Linear High Bay
Page 70



Belmont
Linear High Bay Plug & Play
Page 71

Meadley High Bay

IP65
IK08
50,000 Hours
134 Lm/W
5 YR Warranty

- Supplied with 1.5M prewired H05RN-F cable
- Sosen LED driver
- 90° or 120° optic options
- 0-10V Dimmable
- Emergency and Step Dim PIR sensor options



100W	150W	200W
A 174 mm	A 182 mm	A 184 mm
B 251 mm	B 271 mm	B 340 mm
C 251 mm	C 271 mm	C 340 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430023-90	Meadley High Bay 90° Optic - Black	100W	5000K	13,390	134	£186.52
430024-90	Meadley High Bay 90° Optic - Black	150W	5000K	20,160	134	£219.45
430025-90	Meadley High Bay 90° Optic - Black	200W	5000K	25,862	134	£276.61
430023-120	Meadley High Bay 120° Optic - Black	100W	5000K	13,231	134	£186.52
430024-120	Meadley High Bay 120° Optic - Black	150W	5000K	20,050	134	£219.45
430025-120	Meadley High Bay 120° Optic - Black	200W	5000K	25,727	134	£276.61

Options

Option No.	Description	Trade Price
-PIR	Step Dim PIR Sensor	+£277.75
-M3	Integrated Emergency*	+£166.65
401754	Remote Control	+£99.99

Technical Information

Input	220 - 240V AC
Operating Temp	-30°C - +50°C
IP Rating	IP65
Connection Type	Flying Lead

*See page 113 for battery warranties and operating temperatures.

Loscoe High Temperature High Bay

IP65

IK08

50,000
Hours

160
Lm/W

120°

5 YR
Warranty

- High ambient temperature up to 70°C
- 50,000 hours, long life at L70 at 70°C
- Outstanding cooling performance with excellent air cross-ventilation design

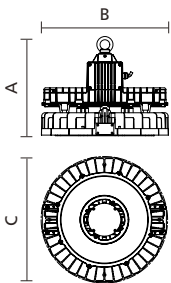
Special Order only



Suitable for high ambient temperatures

- Steel works
- Power stations

Loscoe	
A	306 mm
B	400 mm
C	400 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430161	Loscoe High Bay 120° Glass - Black	100W	5000K	16,000	160	£1,139.66
430162	Loscoe High Bay 120° Glass - Black	150W	5000K	24,000	160	£1,260.34
430163	Loscoe High Bay 120° Glass - Black	200W	5000K	32,000	160	£1,599.73

Technical Information

Input	200 - 240V AC
Operating Temp	-30°C to + 70°C
IP Rating	IP65
Connection Type	Flying Lead



Foremark High Bay - Plug & Play

IP65
IK08
50,000 Hours
145 Lm/W
truSmart Enabled
5 YR Warranty

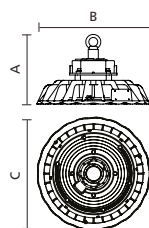
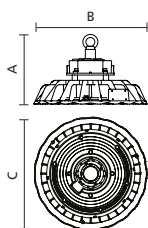
- Supplied with 1.5M prewired H05RN-F cable
- Sosen LED Driver
- 90° or 120° optic options
- 0-10V Dimmable
- Plug & Play Options:
 - High Output Emergency 660lm
 - Microwave sensor
 - PIR Sensor
 - truSmart PIR sensor



100W		150W, 200W	
A	185 mm	A	195 mm
B	315 mm	B	315 mm
C	315 mm	C	315 mm



APP available from the Apple App Store for iOS and Google Play Store for Android.



Remote Control



Grafham Plug & Play Emergency pack



Alwen Plug & Play Microwave sensor



Alwen Plug & Play PIR sensor



Alwen Plug & Play truSmart PIR sensor

Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430230-90	Foremark High Bay 90° Optic - Black	100W	5000K	14,400	144	£299.55
430231-90	Foremark High Bay 90° Optic - Black	150W	5000K	21,750	145	£327.86
430232-90	Foremark High Bay 90° Optic - Black	200W	5000K	28,600	143	£355.42
430230-120	Foremark High Bay 120° Optic - Black	100W	5000K	13,800	138	£299.55
430231-120	Foremark High Bay 120° Optic - Black	150W	5000K	21,000	140	£327.86
430232-120	Foremark High Bay 120° Optic - Black	200W	5000K	27,000	135	£355.42

Options

Option No.	Description	Lumens	Trade Price
430264	Grafham Emergency Pack*	660	+£277.75
430263	Alwen Plug & Play Microwave Sensor		+£99.99
430261	Alwen Plug & Play PIR Sensor		+£111.10
430262	Alwen Plug & Play PIR truSmart Sensor		+£182.20
401754	Remote Control		+£99.99

Technical Information

Input	100 - 240V AC
Operating Temp	-30°C to + 50°C
IP Rating	IP65 / IP40**
Connection Type	Flying Lead



*See page 113 for battery warranties and operating temperatures. **IP40 rating on Grafham Emergency Pack.

Introducing the

Foremark

PLUG & PLAY HIGH BAY

Luminaire Lighting

INDUSTRIAL

Eye bolt



Pre-wired with 1.5M H05RN-F cable

Grafham Plug & Play high output emergency pack 660lm output in emergency mode
Part No: 430264

LiFePO4

Sosen LED driver 0-10V

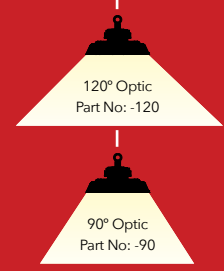
Highly effective diecast aluminium heat sink

IP65 & IK08 rated

Integrated emergency halo

4

PLUG & PLAY OPTIONS



120° Optic
Part No: -120

90° Optic
Part No: -90

- 1



**Grafham Plug & Play
Emergency pack**
Part No: 430264
- 2



**Alwen Plug & Play
Microwave sensor**
Part No: 430263
- 3



**Alwen Plug & Play
PIR sensor**
Part No: 430261
- 4



**Alwen Plug & Play
truSmart PIR sensor**
Part No: 430262

Reva High Bay

IP66
IP69K
50,000 Hours
140 Lm/W
5 YR Warranty

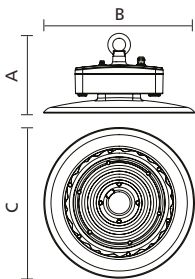
- IP69K NSF certificated - Food Safe
- No glass, no exposed screw and no toxic materials
- High efficiency up to 140lm/W
- Supplied with 1.5M prewired H05RN-F cable
- Sosen LED driver

Special Order only



Fully certified for food and clean areas.

Reva	
A	200 mm
B	489 mm
C	489 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
420642-90	Reva High Bay 90° Optic - White	100W	5000K	13,092	140	£672.05
420643-90	Reva High Bay 90° Optic - White	120W	5000K	16,363	140	£702.22
420644-90	Reva High Bay 90° Optic - White	150W	5000K	19,367	140	£724.85

Options

Option No.	Description	Trade Price
-120	120° Optic	Free Option

Technical Information

Input	100 - 240V AC
Operating Temp	-30°C - +45°C
IP Rating	IP66 IP69K
Connection Type	Pre-Wired Cable



Derwent Low Bay

IP20

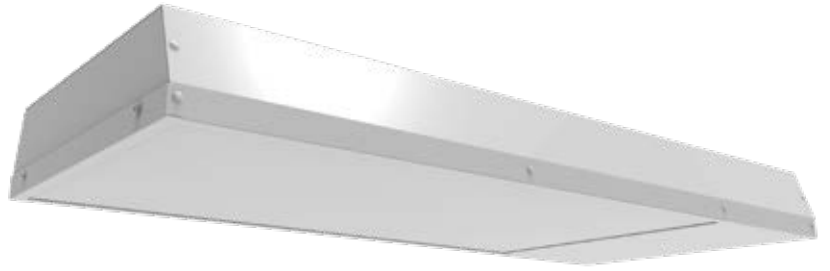
50,000
Hours

148
Lm/W

100°

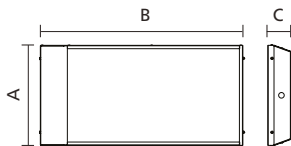
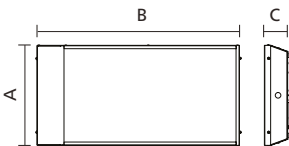
5 YR
Warranty

- Light weight with clean slim design
- Supplied with 1M prewired cable
- PMMA diffuser



100W, 150W	
A	352 mm
B	712 mm
C	83 mm

200W	
A	352 mm
B	802 mm
C	83 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430120	Derwent Low Bay - White	100W	5000K	14,896	130	£315.87
430121	Derwent Low Bay - White	150W	5000K	18,362	122	£366.97
430122	Derwent Low Bay - White	200W	5000K	23,854	119	£445.42

Technical Information

Input	220 - 240V AC
Operating Temp	-20°C - +40°C
IP Rating	IP20
Connection Type	Flying Lead



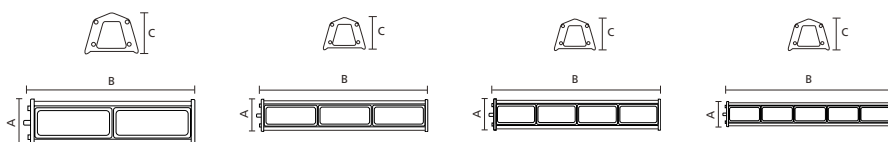
Netherton Linear High Bay

IP65
IK08
50,000 Hours
126 Lm/W
5 YR Warranty

- 50° x 90° optics ideal for racked aisle
- Sosen LED driver
- 1-10V Dimmable
- Emergency and Step Dim PIR Sensor available
- Multiple mounting options available



100W	150W	200W	240W
A 137 mm	A 137 mm	A 137 mm	A 137 mm
B 486 mm	B 718 mm	B 948 mm	B 1178 mm
C 102 mm	C 102 mm	C 102 mm	C 102 mm



Remote Control



Step Dim PIR Sensor

Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430051-90	Netherton Linear High Bay 50° x 90° Optic - Black	100W	5000K	12,562	125	£392.19
430052-90	Netherton Linear High Bay 50° x 90° Optic - Black	150W	5000K	18,744	125	£482.70
430053-90	Netherton Linear High Bay 50° x 90° Optic - Black	200W	5000K	24,980	125	£641.08
430054-90	Netherton Linear High Bay 50° x 90° Optic - Black	240W	5000K	30,282	126	£776.84

Options

Option No.	Description	Lumens	Trade Price
-120	120° Optic		Free Option
-M3	High Output Emergency*	440	+£291.69
-PIR	PIR Sensor		+£338.30
401754	Remote Control		+£99.99

Technical Information

Input	100 - 240V AC
Operating Temp	-30°C - +45°C
IP Rating	IP65
Connection Type	Flying Lead



*See page 113 for battery warranties and operating temperatures. Emergency option for the Netherton is only IP20 rated.

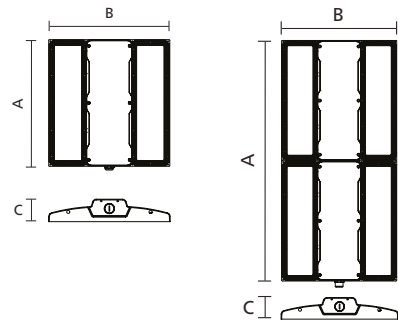
Belmont Linear High Bay - Plug & Play

IP65
IK10
50,000 Hours
155 Lm/W
Flicker Free
truSmart Enabled
5 YR Warranty

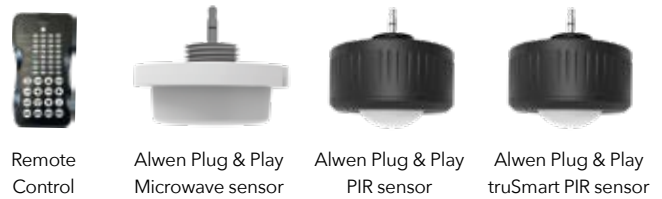
- Fresnel optics for improved glare control
- 0-10V Dimmable
- Plug & Play Options:
 - Microwave sensor
 - PIR Sensor
 - truSmart PIR sensor



120W		180W	
A	340 mm	A	680 mm
B	325 mm	B	325 mm
C	60 mm	C	60 mm



APP available from the Apple App Store for iOS and Google Play Store for Android.



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430241-60	Belmont Linear High Bay 60° Optic - Grey	120W	5000K	18,600	155	£524.18
430242-60	Belmont Linear High Bay 60° Optic - Grey	180W	5000K	27,900	155	£795.69
430241-80	Belmont Linear High Bay 25° x 80° Optic - Grey	120W	5000K	18,600	155	£524.18
430242-80	Belmont Linear High Bay 25° x 80° Optic - Grey	180W	5000K	27,900	155	£795.69

Options

Option No.	Description	Lumens	Trade Price
430264	Grafham Emergency Pack*	660	+£277.75
430263	Alwen Plug & Play Microwave Sensor		+£99.99
430261	Alwen Plug & Play PIR Sensor		+£111.10
430262	Alwen Plug & Play PIR truSmart Sensor		+£182.20
401754	Remote Control		+£99.99
-M3	Emergency*	540	+£291.69

Technical Information

Input	220 - 240V AC
Operating Temp	-30°C to +50°C
IP Rating	IP65
Connection Type	Flying Lead



*See page 113 for battery warranties and operating temperatures.



EXTERIOR LIGHTING



Lifford
Floodlight
Page 74



Lifford PIR
Floodlight
Page 75



Frankly
Floodlight
Page 76



Frankly PIR
Floodlight
Page 77



Frankly Plus
Floodlight
Pages 78 - 79



Bartley
Floodlight
Page 80

NEW



Tring
RGBW Floodlight
Page 81



Ogden
Post Top Streetlight
Page 82



Windermere
Streetlight
Page 83

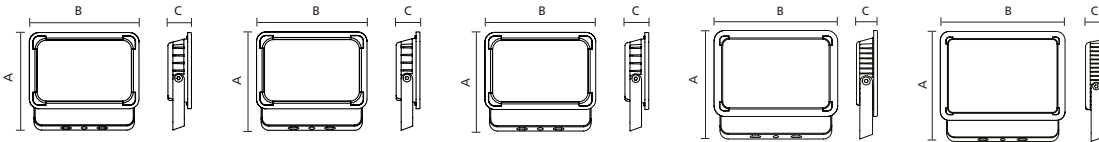
Lifford Floodlights



- Diecast aluminium body
- Angled bracket for ease of installation
- Supplied with 1M prewired H05RN-F cable
- Breather valve to prevent condensation



10W	20W	30W	50W	80W & 100W
A 120 mm	A 133 mm	A 157 mm	A 205 mm	A 280 mm
B 115 mm	B 150 mm	B 180 mm	B 233 mm	B 318 mm
C 25 mm	C 29 mm	C 32 mm	C 40 mm	C 53 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430017	Lifford Floodlight AC - Black	10W	4000K	800	80	£14.82
430018	Lifford Floodlight AC - Black	20W	4000K	1,706	87	£24.51
430019	Lifford Floodlight AC - Black	30W	4000K	2,550	87	£37.17
430020	Lifford Floodlight AC - Black	50W	4000K	4,276	87	£47.23
430021	Lifford Floodlight AC - Black	80W	4000K	7,500	89	£135.76
430022	Lifford Floodlight AC - Black	100W	4000K	8,185	85	£157.63

Technical Information

Input	220 - 240V AC
Operating Temp	-20°C - +30°C
Cable Length	1m H05RN-F 3 core
Connection Type	Flying Lead



Lifford PIR Floodlights

IP65

120°

30,000
Hours

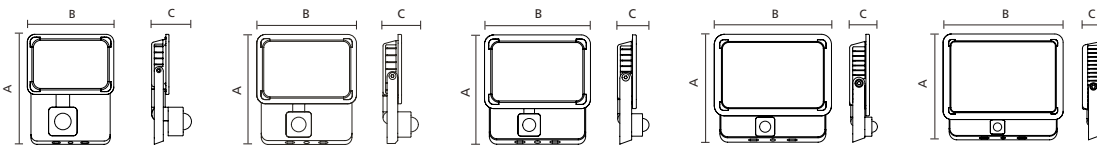
80
CRI

3 YR
Warranty

- Diecast aluminium body
- Angled bracket for ease of installation
- Supplied with 1M prewired H05RN-F cable
- Solid state PIR sensor



10W	20W	30W	50W	80W
A 146 mm	A 165 mm	A 185 mm	A 215 mm	A 280 mm
B 115 mm	B 150 mm	B 180 mm	B 233 mm	B 318 mm
C 54 mm	C 54 mm	C 54 mm	C 55 mm	C 64 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430017-PIR	Lifford Floodlight AC PIR - Black	10W	4000K	800	80	£35.68
430018-PIR	Lifford Floodlight AC PIR - Black	20W	4000K	1,706	87	£46.11
430019-PIR	Lifford Floodlight AC PIR - Black	30W	4000K	2,550	87	£57.32
430020-PIR	Lifford Floodlight AC PIR - Black	50W	4000K	4,276	87	£66.52
430021-PIR	Lifford Floodlight AC PIR - Black	80W	4000K	7,500	89	£150.09

Technical Information

Input	220 - 240V AC
Operating Temp	-20°C - +30°C
Cable Length	1m H05RN-F 3 core
Connection Type	Flying Lead



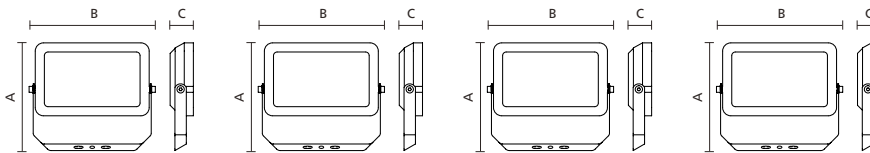
Frankly Floodlights



- Diecast aluminium body
- Dual voltage 100-140V / 200-240V
- Angled bracket for ease of installation
- Supplied with 1M prewired H05RN-F cable
- Breather valve to prevent condensation



10W	20W & 30W	50W	80W & 100W
A 145 mm	A 200 mm	A 238 mm	A 302 mm
B 152 mm	B 228 mm	B 278 mm	B 328 mm
C 28 mm	C 38 mm	C 48 mm	C 60 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430099	Frankly Floodlight - Black	10W	4000K	1,114	107	£26.10
430100	Frankly Floodlight - Black	20W	4000K	2,216	107	£40.00
430101	Frankly Floodlight - Black	30W	4000K	3,539	109	£44.33
430102	Frankly Floodlight - Black	50W	4000K	5,591	107	£64.17
430103	Frankly Floodlight - Black	80W	4000K	8,987	110	£107.17
430104	Frankly Floodlight - Black	100W	4000K	11,039	108	£130.10

Technical Information

Input	100 - 140V AC 220 - 240V AC
Operating Temp	-20°C - +30°C
Cable Length	1m H05RN-F 3 core
Connection Type	Flying Lead



Frankly PIR Floodlights

IP65

120°

50,000
Hours

80
CRI

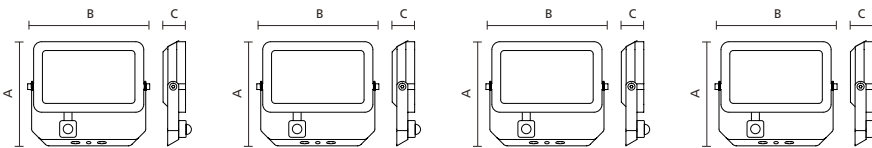
PIR

5 YR
Warranty

- Diecast aluminium body
- Dual voltage 100-140V / 200-240V
- Angled bracket for ease of installation
- Supplied with 1M prewired H05RN-F cable
- Solid state PIR sensor



	10W	20W & 30W	50W	80W
A	180 mm	215 mm	243 mm	302 mm
B	152 mm	228 mm	278 mm	328 mm
C	28 mm	38 mm	48 mm	60 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430099-PIR	Frankly PIR Floodlight - Black	10W	4000K	1,114	107	£37.91
430100-PIR	Frankly PIR Floodlight - Black	20W	4000K	2,216	107	£51.81
430101-PIR	Frankly PIR Floodlight - Black	30W	4000K	3,539	109	£56.14
430102-PIR	Frankly PIR Floodlight - Black	50W	4000K	5,591	107	£75.98
430103-PIR	Frankly PIR Floodlight - Black	80W	4000K	8,987	110	£120.22

Technical Information

Input	100 - 140V AC 220 - 240V AC
Operating Temp	-20°C - +30°C
Cable Length	1m H05RN-F 3 core
Connection Type	Flying Lead



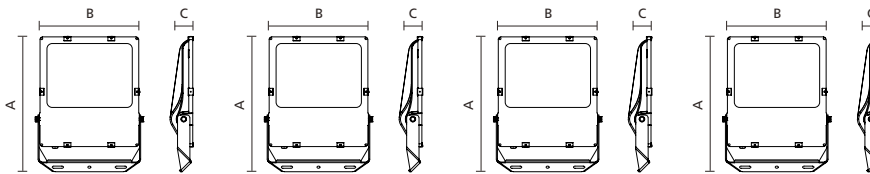
Frankly Plus Floodlights

IP66	50,000 Hours	80 CRI	135 Lm/W	5 YR Warranty
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- Asymmetric optic
- Supplied with 1.5M prewired H05RN-F cable
- Angled bracket for ease of installation
- 10kVA L/N-PE surge protection
- IP66 & IK08
- Diecast aluminium body
- Breather value to prevent condensation
- Suitable for coastal areas



100W	150W	200W	300W
A 418 mm	A 451 mm	A 494 mm	A 567 mm
B 330 mm	B 330 mm	B 395 mm	B 465 mm
C 77 mm	C 77 mm	C 87 mm	C 97 mm



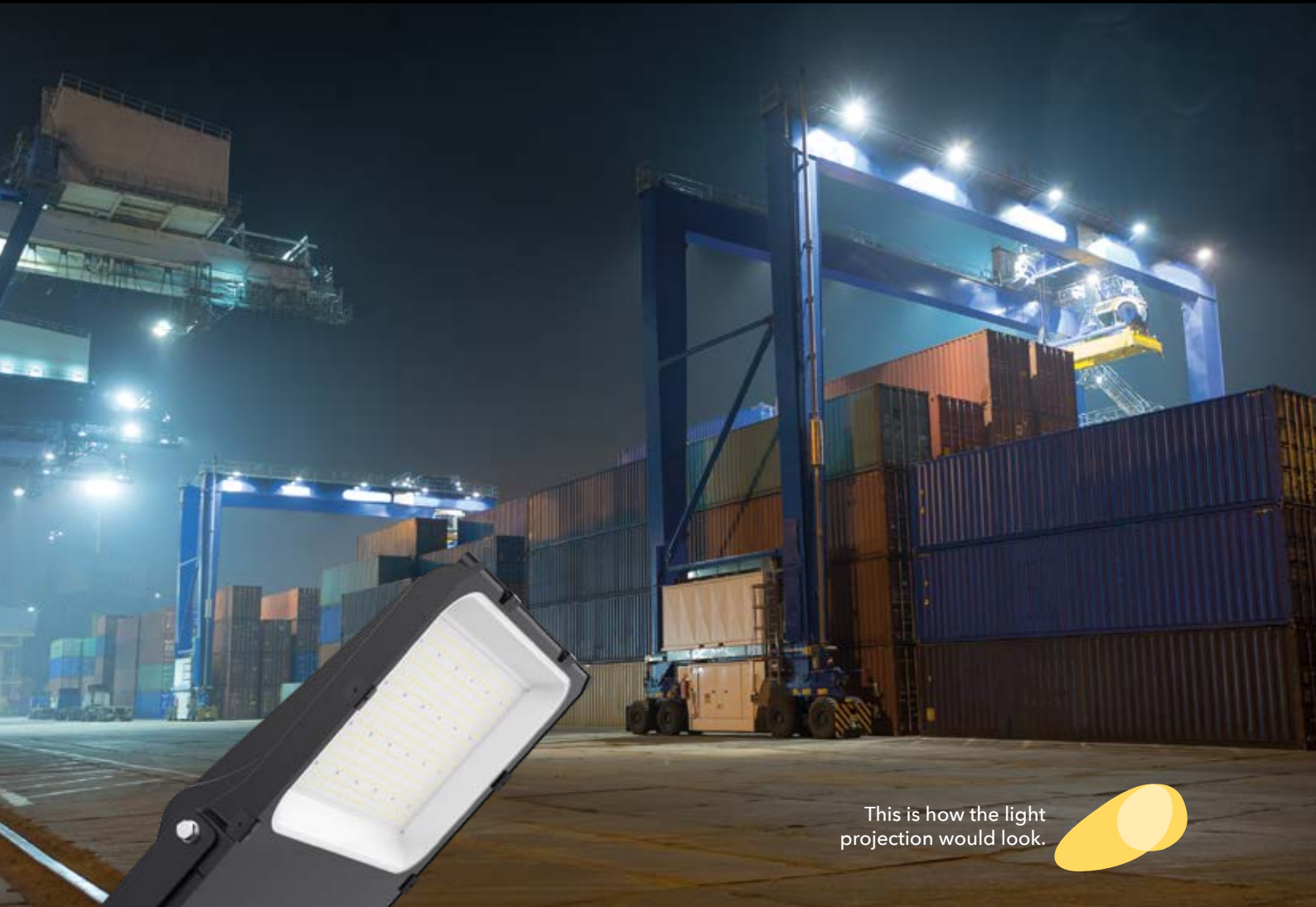
Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430095	Frankly Plus Floodlight - Black	100W	4000K	12,680	135	£283.76
430096	Frankly Plus Floodlight - Black	150W	4000K	19,667	135	£340.51
430097	Frankly Plus Floodlight - Black	200W	4000K	27,273	135	£435.09
430098	Frankly Plus Floodlight - Black	300W	4000K	40,821	135	£699.93

Technical Information

Input	200 - 240V AC
Operating Temp	-30°C - +45°C
Cable Length	1.5m H05RN-F 3 core
Connection Type	Flying Lead



Frankly Plus Floodlight



This is how the light projection would look.



Diagram showing **Asymmetric** optic light projection.

The Frankly Plus is a professional high-performance range of exterior floodlights. Utilising the power of optics and producing 135Lm/W output, this product delivers outstanding performance whatever the weather. It's IP66 and harsh weather rating means it can withstand the most challenging of environments.

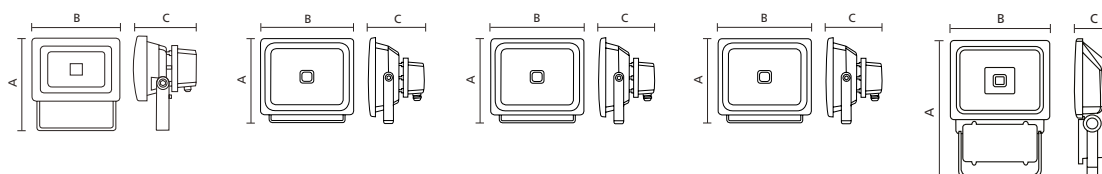
Bartley DC Floodlights



- Diecast aluminium body
- Low voltage floodlight 12V - 24V DC
- Supplied with 1M prewired 2 core cable



10W	20W	30W	50W	80W
A 96 mm	A 155 mm	A 203 mm	A 237 mm	A 395 mm
B 115 mm	B 180 mm	B 224 mm	B 289 mm	B 285 mm
C 82 mm	C 105 mm	C 107 mm	C 125 mm	C 100 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430000-DC	Bartley Floodlight 12-24V DC - Black	10W	4000K	953	81	£39.22
430001-DC	Bartley Floodlight 12-24V DC - Black	20W	4000K	1,619	77	£88.54
430002-DC	Bartley Floodlight 12-24V DC - Black	30W	4000K	2,361	79	£118.26
430003-DC	Bartley Floodlight 12-24V DC - Black	50W	4000K	3,749	80	£160.27
430004-DC	Bartley Floodlight 12-24V DC - Black	80W	4000K	7,220	89	£306.51

Technical Information

Input	12 - 24V DC
Operating Temp	-20°C - +30°C
Cable Length	1m 2 core
Connection Type	Flying Lead



NEW

Tring RGBW Floodlights

IP65

120°

30,000
Hours

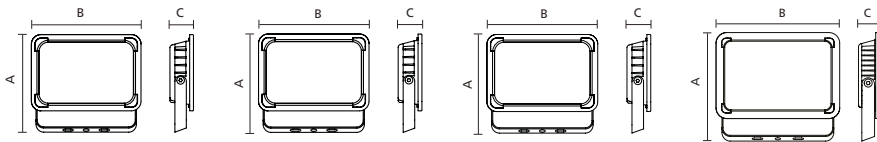
80
CRI

3 YR
Warranty

- RGBW colours
- Built in memory function
- Supplied with 1.5M prewired H05RN-F cable
- Remote included
- Angled brackets for ease of installation



	10W	20W	30W	50W
A	115 mm	133 mm	157 mm	205 mm
B	102 mm	150 mm	180 mm	233 mm
C	25 mm	29 mm	32 mm	40 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430013	Tring RGBW Floodlight 10W - Black	10W	RGBW	800	80	£27.43
430014	Tring RGBW Floodlight 20W - Black	20W	RGBW	1,600	80	£41.30
430015	Tring RGBW Floodlight 30W - Black	30W	RGBW	2,400	80	£55.81
430016	Tring RGBW Floodlight 50W - Black	50W	RGBW	4,000	80	£75.61

Technical Information

Input	200 - 240V AC
Operating Temp	-20°C - +30°C
Cable Length	1.5m 2 core
Connection Type	Flying Lead

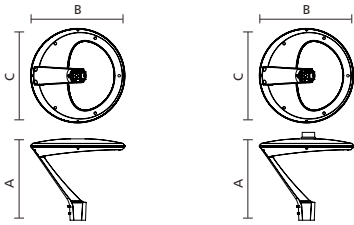


Ogden Post Top

IP66
100,000 Hours
80 CRI
130 Lm/W
5 YR Warranty

- Smooth, diecast aluminium housing without any screws exposed
- 10kVA L/N-PE surge protection
- IP66 & IK08
- 3 pin NEMA Socket
- Spigot diameter 63mm

Ogden		Ogden-DD	
A	410 mm	A	477 mm
B	476 mm	B	476 mm
C	476 mm	C	476 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430292	Ogden Post Top Type V Optics Square 155° x 155°	40W	4000K	5,200	130	£466.62
430293	Ogden Post Top Type I Optic Medium 110° x 150°	40W	4000K	5,200	130	£466.62
430294	Ogden Post Top 60W / 75W & 100W Type V Optics Square 155° x 155°	60W - 100W	4000K	7,800	130	£498.15
430295	Ogden Post Top 60W / 75W & 100W Type I Optic Medium 110° x 150°	60W - 100W	4000K	7,800	130	£498.15
430292-DD	Ogden Post Top Photocell Type V Optics Square 155° x 155°	40W	4000K	5,200	130	£499.86
430293-DD	Ogden Post Top Photocell Type I Optic Medium 110° x 150°	40W	4000K	5,200	130	£499.86
430294-DD	Ogden Post Top Photocell 60W / 75W & 100W Type V Optics Square 155° x 155°	60W - 100W	4000K	7,800	130	£531.39
430295-DD	Ogden Post Top Photocell 60W / 75W & 100W Type I Optic Medium 110° x 150°	60W - 100W	4000K	7,800	130	£531.39

Technical Information

Input	100-240V AC
Operating Temp	-30°C - +50°C
IP Rating	IP66
Connection Type	Flying Lead



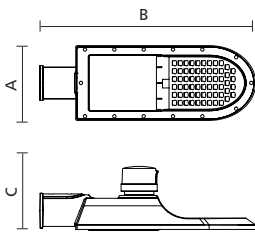
Windermere Streetlights

IP66	50,000 Hours	80 CRI	130 Lm/W	5 YR Warranty
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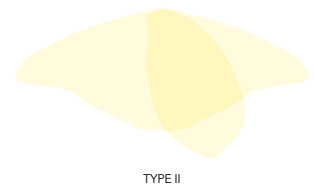
- Type II optic controlled
- 3Pin NEMA Socket
- 10kVA L/N-PE surge protection
- Multi bracket options



20W, 30W, 50W	
A	166 mm
B	478 mm
C	141 mm



Optic light projection illustration



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430253	Windermere Street Light - Silver	20W	4000K	2,600	130	£263.97
430254	Windermere Street Light - Silver	30W	4000K	3,900	130	£279.06
430255	Windermere Street Light - Silver	50W	4000K	6,500	130	£294.14
430418	Windermere Street Light - Silver	70W	4000K	9,450	130	£380.05

Options

Option No.	Description	Trade Price
421259	Dusk to Dawn Sensor	+£33.24
430282	60mm Wall Mount	+£47.49
430283	60mm L Adapter	+£47.01
430284	60mm Corner Bracket	+£68.86
430285	60mm T 2 Light Adapter	+£85.48

Technical Information

Input	100 - 240V AC
Operating Temp	-30°C - +50°C
IP Rating	IP66
Connection Type	Flying Lead



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EMERGENCY LIGHTING



NEW



Darwell
Emergency Bulkhead
Page 86



Draycote
Emergency Twin Spots
Pages 87 - 88



Redbrook
Emergency Exit Box
Page 89



Fontburn
Emergency Exit Sign
Page 90



Woodhead
Emergency Pin Spot
Page 91



Napton
High Level Emergency
Page 92



Thirlmere
Emergency Packs
Page 93



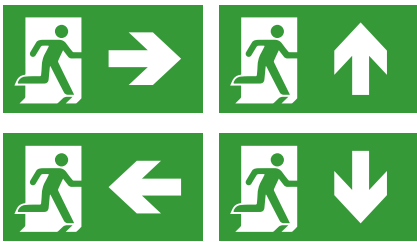
Grafham Plug & Play
Emergency Pack
Page 93

NEW

Darwell Emergency



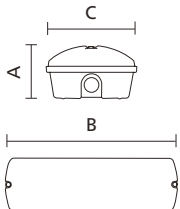
- LiFePO4 and Ni-Cd battery options
- Polycarbonate body and diffuser
- Maintained / Non maintained
- 20mm conduit entry
- Loop in / Loop out terminals



Self adhesive legend kit included

Darwell

A	68 mm
B	340 mm
C	110 mm

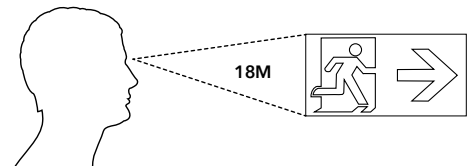


NiCd available to order from July



Part No: 430391 - Drop Accessory

Viewing Distance



Part No.	Description	Lumens	Watts	Kelvin	Trade Price
430390	Darwell Emergency Bulkhead NiCd - White	120	2.5W	6000K	£31.28
421061	Darwell Emergency Bulkhead LiFePO4 - White	140	3W	6000K	£38.47
421300	Darwell Emergency Self-Test Bulkhead LifePO4 - White	155	3W	6000K	£48.33

Emergency Information

LiFePO4

Ni-Cd

	LiFePO4	Ni-Cd
Battery Type	LiFePO4	Ni-Cd
Battery Capacity	1500mAh	1500mAh
Emergency* Duration	3 Hours	3 Hours
Emergency Type	Maintained / Non-Maintained	Maintained / Non-Maintained
Warranty	2 Years	1 Year

Technical Information

Input	220 - 240V AC
Operating Temp	-0°C - +30°C
IP Rating	IP20
Connection Type	Push Terminal

Options

430391	Drop Accessory	+£19.24
430392	Recess Kit	+£8.49



Draycote Emergency

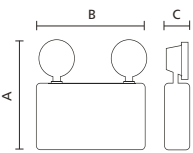
IP20
6000K
2 YR Battery Warranty
5 YR Warranty

- LiFePO4 battery
- Polycarbonate body and diffuser
- Non maintained
- 20mm conduit entry
- Loop in / Loop out terminals



Draycote

A	260 mm
B	273 mm
C	60 mm



Part No.	Description	Lumens	Watts	Kelvin	Trade Price
421063	Draycote Emergency Twin Spot - White	354	6W	6000K	£85.76

Emergency Information

LiFePO4

Technical Information

Battery Type	LiFePO4
Battery Capacity	4500mAh
Emergency* Duration	3 Hours
Emergency Type	Non-Maintained

Input	220 - 240V AC
Operating Temp	-0°C - +30°C
IP Rating	IP20
Connection Type	Push Terminal



*See page 113 for battery warranties and operating temperatures. LiFePO4 is subject to only Rev 2 stock change.



Draycote Emergency

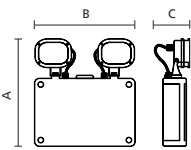


- LiFePO4 battery
- Polycarbonate body and diffuser
- Non maintained
- 20mm conduit entry
- Loop in / Loop out terminals



Draycote

A	272 mm
B	296 mm
C	75 mm



Part No.	Description	Lumens	Watts	Kelvin	Trade Price
410256	Draycote Emergency Twin Spot Self-Test - White	506	6W	6000K	£116.66

Emergency Information

LiFePO4

Technical Information

Battery Type	LiFePO4	Input	220 - 240V AC
Battery Capacity	6000mAh	Operating Temp	-0°C - +30°C
Emergency* Duration	3 Hours	IP Rating	IP65
Emergency Type	Non-Maintained	Connection Type	Push Terminal



*See page 113 for battery warranties and operating temperatures. LiFePO4 is subject to only Rev 2 stock change.

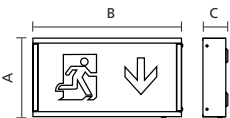
Redbrook Emergency

IP20
6000K
2 YR Battery Warranty
5 YR Warranty

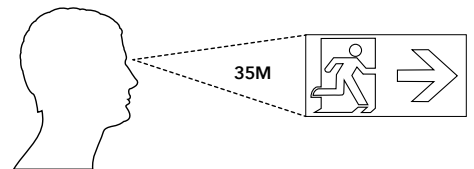
- LiFePO4 battery
- White steel painted body with polycarbonate legends
- Maintained
- 20mm conduit entry
- Loop in / Loop out terminals



Redbrook	
A	190 mm
B	390 mm
C	60 mm



Viewing Distance



Part No.	Description	Lumens	Watts	Kelvin	Trade Price
421065	Redbrook Emergency Exit Box - White	82	5W	6000K	£78.19
421319	Up Legend				£10.45

Emergency Information

LiFePO4

Technical Information

Battery Type	LiFePO4
Battery Capacity	1500mAh
Emergency* Duration	3 Hours
Emergency Type	Maintained

Input	220 - 240V AC
Operating Temp	-0°C - +30°C
IP Rating	IP20
Connection Type	Screw Terminal

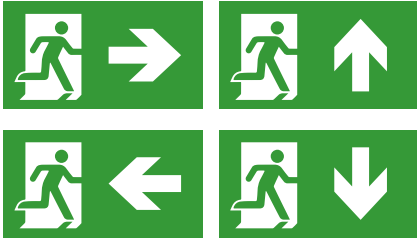


*See page 113 for battery warranties and operating temperatures. LiFePO4 is subject to only Rev 2 stock change.

Fontburn Emergency

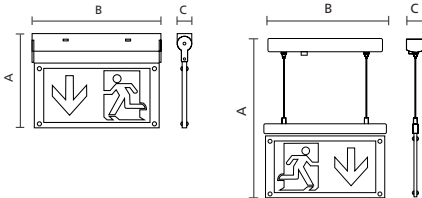


- LiFePO4 battery
- Polycarbonate body with printed legend
- Maintained



Legend kits available

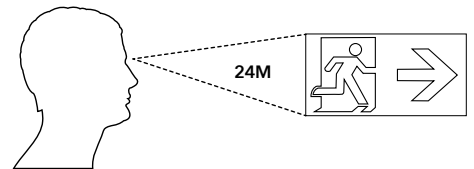
Exit Sign	Hanging Sign
A 230 mm	A 700 mm
B 310 mm	B 300 mm
C 35 mm	C 45 mm



Exit Sign

Hanging Exit Sign

Viewing Distance



Part No.	Description	Lumens	Watts	Kelvin	Trade Price
421301	Fontburn Emergency Exit Sign - White	39	3W	6000K	£80.08
421302	Fontburn Emergency Exit Sign Self-Test - White	39	3W	6000K	£87.02
421304	Fontburn Emergency Hanging Exit Sign - White	39	3W	6000K	£87.02
421311	Fontburn Emergency Hanging Exit Sign Self-Test - White	39	3W	6000K	£87.02

Options

421298	Left/Right Legend	+£5.04
421299	Up Legend	+£5.04
421303	Recess Kit	+£10.09

Emergency Information

LiFePO4

Battery Type	LiFePO4
Battery Capacity	900mAh
Emergency* Duration	3 Hours
Emergency Type	Maintained

Technical Information

Input	220 - 240V AC
Operating Temp	-0°C - +30°C
IP Rating	IP20
Connection Type	Push Terminal



*See page 113 for battery warranties and operating temperatures. LiFePO4 is subject to only Rev 2 stock change.

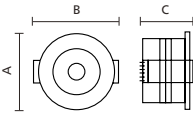
Woodhead Emergency



- LiFePO4 battery
- Open or corridor optic option
- Recessed installation



Woodhead	
A	40 mm
B	40 mm
C	21 mm



Part No.	Description	Watts	Kelvin	Lumens	Trade Price
421307	Woodhead Emergency Downlight Open Area - White	3W	6000K	152	£60.53
421308	Woodhead Emergency Downlight Open Area Self-Test - White	3W	6000K	152	£73.15
421309	Woodhead Emergency Downlight Corridor - White	3W	6000K	139	£61.80
421310	Woodhead Emergency Downlight Corridor Self-Test - White	3W	6000K	139	£74.41

Emergency Information

LiFePO4

Technical Information

Battery Type	LiFePO4
Battery Capacity	1800mAh
Emergency* Duration	3 Hours
Emergency Type	Non-Maintained

Input	220 - 240V AC
Operating Temp	-0° - +30°C
IP Rating	IP20
Connection Type	Flying Lead



*See page 113 for battery warranties and operating temperatures. LiFePO4 is subject to only Rev 2 stock change.

Napton High Level Emergency



- Suitable for high risk areas
- Up to 25M mounting
- Polycarbonate body and diffuser
- Multi 20mm conduit entry



Lens Options



50° x 30°



80°



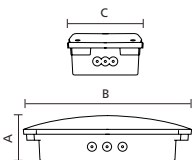
60°



45°

Napton

A	95 mm
B	350 mm
C	155 mm



Part No.	Description	Watts	Kelvin	Lumens	Trade Price
421069-45	Napton Industrial Emergency Bulkhead NM 45° - White	6W	4000K	451	£301.86
421069-50	Napton Industrial Emergency Bulkhead NM 50° - White	6W	4000K	429	£301.86
421069-60	Napton Industrial Emergency Bulkhead NM 60° - White	6W	4000K	471	£301.86
421069-80	Napton Industrial Emergency Bulkhead NM 80° - White	6W	4000K	461	£301.86

Emergency Information



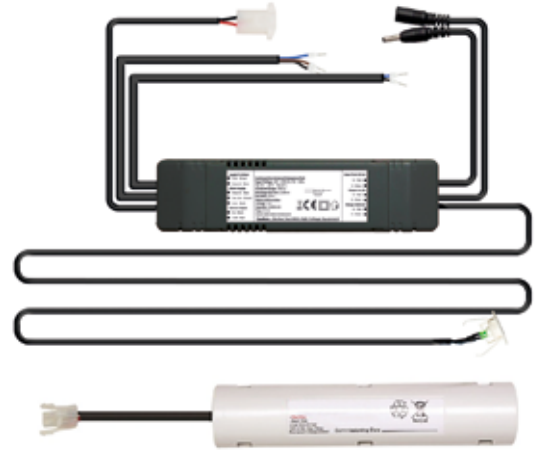
Battery Type	Ni-Cd
Battery Capacity	4500mAh
Emergency* Duration	3 Hours
Emergency Type	Non-Maintained

Technical Information

Input	220 - 240V AC
Operating Temp	-0° - +40°C
IP Rating	IP65
Connection Type	Push Terminal

*See page 113 for battery warranties and operating temperatures.

Emergency Packs



Thirlmere Emergency Packs



Part No.	Description	Trade Price
401417	Thirlmere Universal Emergency* Pack Ni-Cd	£110.35
421220	Thirlmere Universal Emergency* Pack Ni-Cd Self-Test	£274.30

Emergency Information

Ni-Cd

Technical Information

Battery Type	Ni-Cd
Battery Capacity	4500mAh
Emergency* Duration	3 Hours
Emergency Type	Conversion

Input	220 - 240V AC
Operating Temp	-0°C - +30°C
IP Rating	IP20
Connection Type	Flying Lead



*See page 113 for battery warranties and operating temperatures.



Part No.	Description	Trade Price
421292	Thirlmere Universal Emergency* Pack LiFePO4	£274.30

Emergency Information

LiFePO4

Technical Information

Battery Type	LiFePO4
Battery Capacity	3800mAh
Emergency* Duration	3 Hours
Emergency Type	Conversion

Input	220 - 240V AC
Operating Temp	-0°C - +50°C
IP Rating	IP20
Connection Type	Flying Lead



*See page 113 for battery warranties and operating temperatures.

Grafham Plug & Play Emergency Pack



Part No.	Description	Trade Price
430264	Grafham Plug & Play 4.5W Emergency*	£277.75

Technical Information

Input	220 - 240V AC
Operating Temp	-0°C - +30°C
Cable Length	1.5M
Connection Type	Flying Lead

LiFePO4



*See page 113 for battery warranties and operating temperatures.

SPORTS LIGHTING



Wilton
Court Lighting
Page 96



Harlock
Court Lighting
Page 97



Arnfield
Linear Court Lighting
Pages 98 - 99



Carsington
Sports Floodlighting
Pages 100 - 101

Wilton Court Lighting



The Wilton is designed for a wide range of sports applications, including swimming pools, tennis courts and 5-a-side pitches. The polarised asymmetric optics maximise the light projection without requiring overhead lights and reducing glare.

- Asymmetric 65° x 120° polarised 55° optic
- Wall or pole mountable

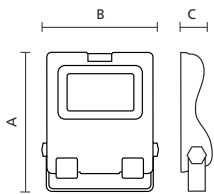


40W, 60W, 80W

A 359 mm

B 308 mm

C 82 mm

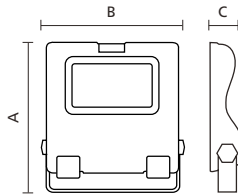


100W, 120W, 150W

A 413 mm

B 366 mm

C 83 mm

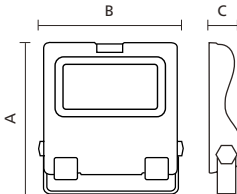


180W, 200W, 240W

A 540 mm

B 515 mm

C 160 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
421070-BL-120	Wilton Asymmetric Optic - Black	40W	5000K	5,810	135	£302.67
421071-BL-120	Wilton Asymmetric Optic - Black	60W	5000K	8,100	135	£341.77
421072-BL-120	Wilton Asymmetric Optic - Black	80W	5000K	10,800	135	£358.86
421073-BL-120	Wilton Asymmetric Optic - Black	100W	5000K	13,500	135	£438.56
421074-BL-120	Wilton Asymmetric Optic - Black	120W	5000K	16,200	135	£467.06
421075-BL-120	Wilton Asymmetric Optic - Black	150W	5000K	20,250	135	£506.92
421076-BL-120	Wilton Asymmetric Optic - Black	180W	5000K	24,300	135	£615.12
421077-BL-120	Wilton Asymmetric Optic - Black	200W	5000K	27,000	135	£637.95
421078-BL-120	Wilton Asymmetric Optic - Black	240W	5000K	32,400	135	£706.05

Please call for more information on the Wilton and how Lumineux can offer a customisable option to ensure the right lighting solution.

Technical Information

Input 220 - 240V AC

Operating Temp -30°C - +45°C

IP Rating IP66

Connection Type Flying Lead



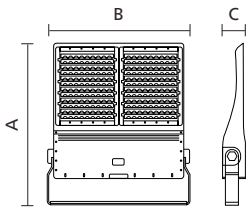
Harlock Court Lighting

IP66	145 Lm/W	50,000 Hours	1 YR On-Site Warranty	5 YR Warranty
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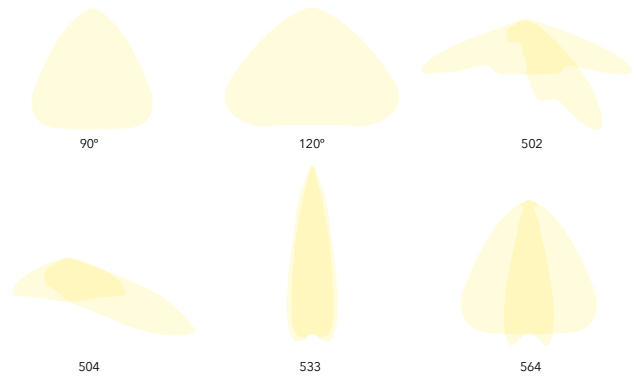
- Backlight control to avoid light pollution
- Optic lens up to 93% lighting transparency
- 10kVA L/N-PE surge protection
- High efficiency 145lm/W
- IP66 & IK10



Harlock	
A	621 mm
B	601 mm
C	104 mm



Optic light projection illustrations



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
421225	Harlock Court Lighting - Bronze	450W	5000K	62,724	145	£1,886.98
421226	Harlock Court Lighting - Bronze	600W	5000K	82,847	145	£2,345.72

Please call for more information on the Harlock and how Lumineux can offer a customisable option to ensure the right lighting solution.

Technical Information

Input	220 - 240V AC
Operating Temp	-30°C - +50°C
IP Rating	IP66
Connection Type	Flying Lead



Arnfield Linear Court Lighting



The Arnfield is designed for internal sports applications. Developed to maximise the light projection without overhead lights to meet LTA standards.

- Designed to meet LTA Standards
- Bespoke court lighting optics
- Supplied with 1.5M prewired H05RN-F cable
- High efficiency 156lm/W
- Option of lumens maintenance

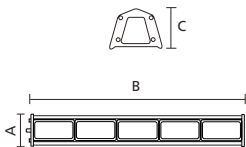


120W & 150W

A 137 mm

B 1178 mm

C 102 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
430081	Arnfield Linear Court Light - Black	120W	5000K	19,750	156	£631.58
430082	Arnfield Linear Court Light - Black	150W	5000K	23,560	156	£673.06

Please call for more information on the Arnfield and how Lumineux can offer a customisable option to ensure the right lighting solution.

Technical Information

Input 220 - 240V AC

Operating Temp -30°C - +50°C

IP Rating IP65

Connection Type Flying Lead



Arnfield Linear Court Lighting



Arnfield Linear Court Lighting

Designed specifically for indoor sports lighting, the Arnfield has been developed to ensure maximum light coverage whilst maintaining high levels of uniformity and low glare. This professional sports luminaire uses specially designed optics meet LTA standards and can be configured with a wide array of options.

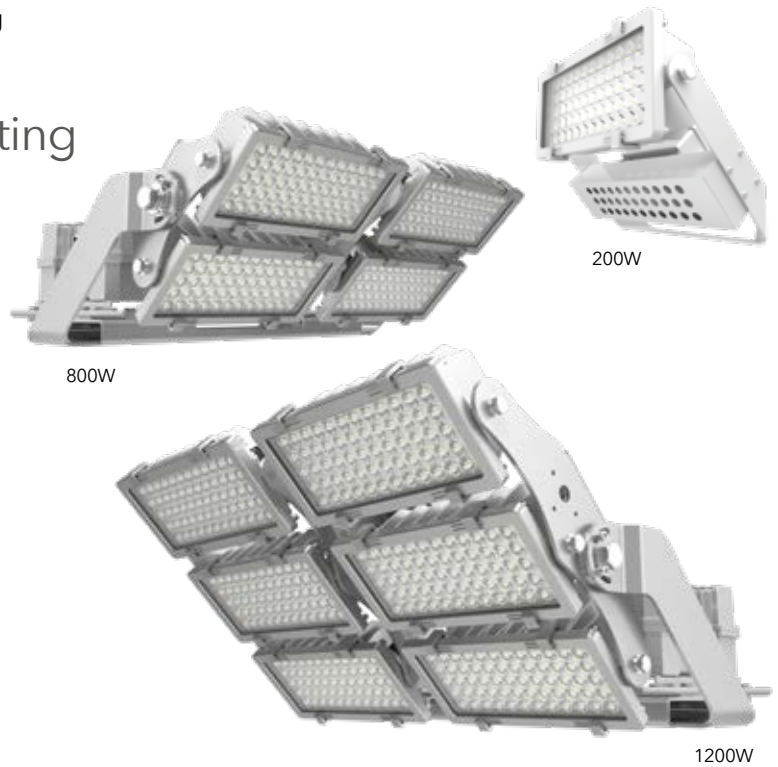
Carsington Sports Floodlighting

IP65

140
Lm/W50,000
Hours5 YR
Warranty

- Modular design from 200W to 1200W
- Multiple optic lens options including:
10° / 15° / 30° / 45° / 60° and asymmetric
- 10kVA L/N-PE surge protection
- Remote driver option

Special Order only



200W

800W

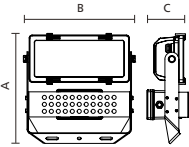
1200W

200W

A 316 mm

B 321 mm

C 118 mm

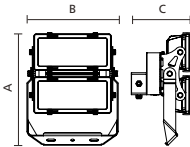


400W

A 419 mm

B 340 mm

C 222 mm

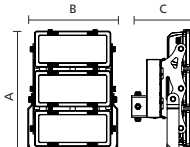


600W

A 529 mm

B 340 mm

C 226 mm

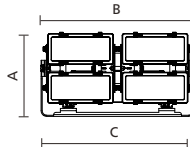


800W

A 368 mm

B 674 mm

C 631 mm

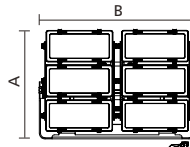


1200W

A 468 mm

B 674 mm

C 640 mm



Part No.	Description	Watts	Kelvin	Lumens	Lm/W	Trade Price
Custom	Carsington Sports Floodlight 30° / 45° / 60° - Silver	200W	5000K	28,000	140	£836.30
Custom	Carsington Sports Floodlight 30° / 45° / 60° - Silver	400W	5000K	56,000	140	£1,386.87
Custom	Carsington Sports Floodlight 30° / 45° / 60° - Silver	600W	5000K	71,043	140	£2,132.66
Custom	Carsington Sports Floodlight 30° / 45° / 60° - Silver	800W	5000K	96,000	140	£4,591.39
Custom	Carsington Sports Floodlight 30° / 45° / 60° - Silver	1200W	5000K	160,000	140	£5,433.54

Options

Option No.	Description	Trade Price
430305	Visor	+£206.69

Please call for more information on the Carsington and how Lumineux can offer a customisable option to ensure the right lighting solution.

Technical Information

Input	220 - 240V AC
Operating Temp	-30°C - +40°C
IP Rating	IP65
Connection Type	Flying Lead



Carsington Sports Floodlighting



Carsington Sports Floodlighting

A powerful and versatile light fitting, the Carsington offers flexibility to customise the optics to maximise light distribution and uniformity.



SENSORS & DRIVERS



Alwen Plug & Play
PIR Sensor
Page 104



Alwen Plug & Play
PIR truSmart Sensor
Page 104



Alwen Plug & Play
Microwave Sensor
Page 104



PIR Sensor
Batten Mount Sensor
Page 104



Triac Dimmable
Drivers
Page 105



Multi Dimmable
Drivers
Page 105

Alwen Plug & Play PIR Sensors



Remote Control

Part No.	Description	Trade Price
430261	Plug & Play 12V PIR Sensor 10M - Black	£111.10

Option No.	Description	Trade Price
401754	Remote Control	+£99.99



Technical Information

Input	12V DC
Operating Temp	-10°C - +40°C
Mounting Height	10M Max
Connection Type	3.5mm Jack

Alwen Plug & Play truSmart Sensor



APP available from the Apple App Store for iOS and Google Play Store for Android.



Part No.	Description	Trade Price
430262	Plug & Play 12V PIR truSmart Sensor - Black	£182.20



Technical Information

Input	12V DC
Operating Temp	-10°C - +40°C
Mounting Height	12M Max
Connection Type	3.5mm Jack

Alwen Plug & Play Microwave Sensor



Remote Control

Part No.	Description	Trade Price
430263	Plug & Play 12V Microwave Sensor - White	£99.99

Option No.	Description	Trade Price
401754	Remote Control	+£99.99



Technical Information

Input	12V DC
Operating Temp	-10°C - +40°C
Mounting Height	10M Max
Connection Type	3.5mm Jack

PIR Batten Mount Sensor



Part No.	Description	Trade Price
401752	Batten Mount PIR Sensor - White	£66.64

Option No.	Description	Trade Price
401755	Remote Control	+£44.42



Technical Information

Input	200-240V AC
Operating Temp	-10°C - +35°C
Mounting Height	7M Max
Connection Type	Flying Lead

Multi Dimmable Drivers



Part No.	Description	Trade Price
410041	Multi Dimmable Driver 10W - 30W	£69.95
410042	Multi Dimmable Driver 30W - 50W	£87.76

*See page 113 for battery warranties and operating temperatures.

Technical Information

Input	220 - 240V AC
Operating Temp	-10°C - +40°C
Cable Length	N/A
Connection Type	Push Terminal

Triac Dimmable Drivers



Part No.	Description	Trade Price
430265	Triac Dimmable Driver 10W - 24W	£31.80
430266	Triac Dimmable Driver 18W - 32W	£40.06
430267	Triac Dimmable Driver 28W - 42W	£41.34

*See page 113 for battery warranties and operating temperatures.

Technical Information

Input	220 - 240V AC
Operating Temp	-10°C - +40°C
Cable Length	N/A
Connection Type	Push Terminal

GENERAL INFORMATION



Terms & Conditions

B&T Associates LTD T/A Lumineux & MPWPSU.com
TERMS AND CONDITIONS OF SALE ("these Terms and Conditions")

1. DEFINITIONS

In this Contract:

1.1 the following terms shall have the following meanings unless the context otherwise requires:

"Breach of Duty"	has the meaning given to it in Clause 7.7.1;
"Catalogue"	Supplier's then current catalogue at the time of Supplier's receipt of the Order;
"Business Day"	any day other than (i) a Saturday, (ii) a Sunday or (iii) a day when the clearing banks are not physically open for business in the City of London;
"this Contract"	these Terms and Conditions together with: (a) the relevant Order Acknowledgement (if any); or (b) (if no Order Acknowledgement) the terms of the relevant Order (except to the extent that the terms of the Order deviate from the Quotation (if any) or from the Long Term Agreement (if any), and not agreed by Supplier);
"Customer"	the customer of Supplier whose details may be more particularly set out in the Order, Order Acknowledgement or Long Term Agreement;
"Event of Force Majeure"	has the meaning given to it in Clause 10.1;
"Fee"	the fee payable by Customer to Supplier for the supply by Supplier of the Products as stipulated in this Contract or Long Term Agreement (or if no such fee is agreed in writing or specified by Supplier, then this shall be the fee listed in Supplier's published price list current at the date of the Order);
"Liability"	has the meaning given to it in Clause 7.7.2;
"Long Term Agreement"	any written agreement between the Parties governing the long-term relationship concerning the supply of Products by Supplier to Customer;
"Order"	the written request by Customer to Supplier for the provision of particular Products for a particular project or enquiry, which may be in accordance with the terms of a particular Quotation or the Long Term Agreement;
"Order Acknowledgement"	the written document or written communication (if any) which Supplier despatches to Customer (in response to Supplier's receipt of an Order), which may contain (together with any applicable Long Term Agreement) the particular details of any provision of particular Products for a particular project or enquiry and which may reflect the commercial terms of the Quotation or Long Term Agreement;
"Party"	either Supplier or Customer;
"Payment"	has the meaning given to it in Clause 4.1;
"Products"	any of Supplier's products provided or to be provided by Supplier to Customer pursuant to this Contract, as more particularly identified in this Contract or Long Term Agreement and described in the Catalogue;
"Returns Form"	means the returns form available for download on the Supplier's website (www.bt-associates.co.uk) or requested through our returns department, as amended from time by the Supplier

"Returns Policy"	means the returns policy set out on the Supplier's Returns Form
"Quotation"	the written quotation (if any) from Supplier to Customer or Customer's (direct or indirect) customer detailing the number and quantity and type of Products that Supplier is willing in principle to supply to Customer or Customer's (direct or indirect) customer for a particular project or enquiry;
"Supplier"	B&T Associates Ltd, a company registered in England and Wales under number 1987654 whose registered office is at Davis House, Manby Business Park, Manby (fax number +44 [0] 1507 328039);
"VAT"	any tax introduced pursuant to a direction of the Council of the European Community relating to turnover taxes including value added tax as provided for in the Value Added Tax Act 1994 and supplemental legislation (whether delegated or otherwise), any tax of a similar nature which any be substituted for or levied in addition to it and any sales tax;
Warranty Claim Terms and Conditions Form	means the warranty claim terms and conditions form available for download on the Supplier's website (www.bt-associates.co.uk) or requested through our returns department, as amended from time by the Supplier.

- 1.2 references to "Clauses" are to clauses of these Terms and Conditions;
- 1.3 the headings to Clauses are inserted for convenience only and shall not affect the interpretation or construction of this Contract;
- 1.4 words imparting the singular shall include the plural and vice versa. Words imparting a gender shall include the other gender and the neutral and references to persons shall include an individual, company, corporation, firm or partnership;
- 1.5 references to "includes" or "including" or like words or expressions shall mean without limitation;
- 1.6 references to any statute or statutory provision shall include any subordinate legislation made under it, any provision which it has modified or re-enacted (whether with or without modification) and any provision which subsequently supersedes it or re-enacts it (whether with or without modification); and
- 1.7 references to "written" or in "writing" (except in respect of sending a notice in accordance with Clause 11) includes in electronic form.

2. AGREEMENT

- 2.1 The terms of this Contract apply to the exclusion of any terms and conditions submitted, proposed or stipulated by Customer. These Terms and Conditions apply to Supplier's supply of all Products. The giving by Customer of any delivery instruction or the acceptance by Customer of delivery or collection of the Products shall constitute unqualified acceptance by Customer of these Terms and Conditions.
- 2.2 Save as expressly provided herein, this Contract (together with any documents referred to in it) shall operate to the entire exclusion of any other agreement, understanding or arrangement of any kind between the Parties hereto preceding the date of this Contract and in any way relating to the subject matter of this Contract and to the exclusion of any representations not expressly stated herein save for any fraudulent misrepresentations or any misrepresentation as to a fundamental matter. Each Party acknowledges that it has not entered into this Contract based on any representation that is not expressly incorporated into this Contract.
- 2.3 This Contract (together with any documents referred to in it) constitutes the whole agreement and understanding of the Parties as to the subject matter hereof and there are no provisions, terms, conditions or obligations, whether oral or written, express or implied, other than those contained or referred to herein.

- 2.4 Subject to Clause 2.2, all materials and other particulars furnished by Supplier prior to the Quotation or Order Acknowledgement or Long Term Agreement or in Supplier's sales or marketing materials or other documents (including its catalogues, trade literature, brochures, quotations, price lists or website) or made orally by Supplier are given for general information purposes only and Customer acknowledges that it is not entering into this Contract in reliance upon any such materials or other particular (except to the extent that such materials or particular forms part of this Contract); the Products may also look different to their representation in any such materials or particulars.
- 2.5 Except as expressly provided otherwise in this Contract, no change to this Contract shall be binding unless it is agreed in writing by each of Supplier and Customer and in any format described as being required in the Quotation or Long Term Agreement.
- 2.6 In the event of any conflict between the provisions of these Terms and Conditions and the provisions of the rest of this Contract or any Long Term Agreement, then the following order of precedence shall apply:
- 2.6.1 the Long Term Agreement prevails over an Order, Order Acknowledgement and these Terms and Conditions; and
- 2.6.2 any Order Acknowledgement prevails over the Order; and
- 2.6.3 the Order prevails over these Terms and Conditions.
- 2.7 The Order shall contain:
- 2.7.1 a reference to the Product(s) already described by Supplier (in the Brochure or Quotation or Long Term Agreement);
- 2.7.2 the quantity of that Product(s) ordered with Supplier;
- 2.7.3 the identity of Customer; and
- 2.7.4 the price for that Product(s) ordered to reflect the price already given by Supplier in the relevant Quotation or Long Term Agreement or otherwise agreed in writing by Supplier.
- 2.8 Except to the extent of the information in an Order described in Clause 2.7, if Customer provides Supplier with an Order, purchase order, confirmation of order, specification or other document for the Products, such document shall be purely for Customer's administrative purposes only and shall not form part of this Contract.
- 2.9 Customer shall ensure that the Order is on the same terms as any Quotation and Long Term Agreement and is made in accordance with the terms of the Quotation or Long Term Agreement (except to the extent that Supplier has agreed in writing to the contrary). If the Parties agree that Supplier will proceed to provide the Products, then such provision shall be only on the understanding that any differences in the Order from the Quotation or Order Acknowledgement or Long Term Agreement shall have no effect unless the Parties expressly agree otherwise in writing.
- 2.10 This Contract shall be legally formed and the Parties shall be legally bound on the earlier of:
- 2.10.1 Supplier despatching its Order Acknowledgement to Customer confirming the terms on which the Parties have agreed to proceed; or
- 2.10.2 Supplier delivering some or all of the Products agreed in the Order or (if earlier) Supplier informing Customer that those Products are ready for collection.
- 2.11 It is Customer's responsibility to ensure that the Quotation, Order and Order Acknowledgement are complete and accurate and to point out to Supplier in writing anything, which is incomplete or inaccurate.
- 2.12 Each Order constitutes a separate contract. There may be more than one contract between the Parties in force at the same time as this Contract.
- 2.13 This Contract only applies to the supply of Supplier's standard products. Any bespoke products shall be subject to additional or separate terms agreed in writing between the Parties.
- 3. DELIVERY AND RISK**
- 3.1 In consideration for the payment of the Fee and any other sums due by Customer, Supplier shall supply the Products referred to in the Order to Customer.
- 3.2 Supplier shall use its reasonable endeavours to perform its obligations within any timescales set out in this Contract, but time for performance shall not be of the essence and Supplier shall not be liable for any delays or failure to accurately perform its obligations:
- 3.2.1 if it has used those endeavours; or
- 3.2.2 if caused by any failure or delay on the part of Customer or Customer's agents, staff, officers, employees and contractors or customers or by any breach by Customer of this Contract or any other contract between the Parties; or
- 3.2.3 if the reason for the delay in providing the Products is because the machinery producing the Products is already working to capacity. Any timeframe for delivery in a previous contract shall be no indication of the timeframe for delivery in this Contract.
- 3.3 Partial delivery or performance shall be permitted. Supplier may deliver and provide the Products in instalments. Unless the Parties otherwise agree in writing, Supplier may invoice Customer for all Products covered by the Order in accordance with Clause 8.3, notwithstanding that Supplier has not yet delivered all the Products to Customer.
- 3.4 Delay, default or non-delivery of any instalment by Supplier shall not entitle Customer to cancel or terminate, and shall not affect, the remainder of this Contract.
- 3.5 Unless otherwise agreed in writing between the Parties, this Contract is for delivery of the Products CPT - Carriage Paid To (Incoterms 2010) at the place stipulated as such in the Order Acknowledgement (or if no place stipulated, then Supplier's normal location for despatch of the Products in the UK). For the avoidance of doubt, this means that delivery shall be deemed to be completed when the Supplier's nominated carrier collects the Products from the Supplier's premises. If there is any conflict between the provisions of Incoterms 2010 and this Contract, this Contract shall prevail. Sections 32 (2) and (3) of the Sale of Goods Act 1979 shall not apply to this Contract.
- 3.6 Notwithstanding the place of delivery as set out in clause 3.5 (including the risk and responsibility allocation in accordance with the CPT - Carriage Paid To provisions of Incoterms 2010), Supplier reserves the right to despatch the Products to a carrier selected by Supplier and arrange and pay for the carriage to Customer's premises (as Customer's agent), and invoice Customer for those carriage and insurance costs at the same time as invoicing for the Products.
- 3.7 Supplier shall inform Customer of the estimated date on which the Products will be ready for delivery or collection.
- 3.8 Customer shall ensure that it is ready for safe receipt (or, as the case may be, collection) of the Products without undue delay.
- 3.9 Customer may be required to sign a delivery note and other documentation upon delivery of the Products. The signing of any such documentation by Customer shall be evidence that the Products have been delivered and in the quantities stipulated in the documentation. Customer shall inspect the Products and packaging for any obvious damage (including the sound of broken glass) and make a note of any obvious damage when signing.
- 3.10 All risk in the Products shall pass to Customer upon delivery, provided that where delivery is delayed due to breach by Customer of its obligations under this Contract risk shall pass at the date when delivery would have occurred but for that breach.
- 3.11 Customer shall keep the Products fully insured on Supplier's behalf with a reputable insurance company to the reasonable satisfaction of Supplier for their full price against all risks of loss or damage from the time when the risk passes to Customer at delivery until property passes in accordance with Clause 4. On request, Customer shall produce the policy of insurance to Supplier. If the Products are lost, damaged or destroyed, Customer shall hold the proceeds of insurance for and to the order of Supplier pending Payment (as defined in Clause 4.1).

3.12 If delivery of the Products is delayed or obstructed through Customer's default or breach of this Contract or if Customer unreasonably declines or delays in accepting or taking delivery or receipt of the Products, then (subject to Clause 7) Supplier shall not have any Liability as a result and Supplier may (without prejudice to any other right or remedy available to it) do all or any of the following:

- 3.12.1 sell the Products for Supplier's account;
- 3.12.2 cancel this Contract as regards any Products that remain to be delivered or performed;
- 3.12.3 charge a reasonable storage fee for the Products; and
- 3.12.4 require Customer to indemnify Supplier for any and all losses, liabilities, claims, proceedings, judgments, damages, demands, actions, costs, charges, expenses, penalties and fines suffered or incurred by Supplier as a result of Customer declining or delaying.

3.13 Where delivery is not to the United Kingdom, Customer shall be responsible for complying with all applicable laws, regulations and codes of practice governing the importation, installation and use of the Products into the country of destination and for payment of any duties or levies thereon.

4. TITLE

4.1 Notwithstanding delivery (or installation), title to and ownership of the Products shall not pass to Customer until Supplier has received in full (in cash or cleared funds) all sums due to it in respect of:

- 4.1.1 the Products; and
- 4.1.2 all other sums which are or which become due to Supplier from Customer on any account;

("Payment").

4.2 Until Payment, Customer shall:

- 4.2.1 hold the Products on a fiduciary basis as Supplier's bailee; and
- 4.2.2 not destroy, deface or obscure any identifying mark or packaging on or relating to the Products.

4.3 Customer may resell the Products before Payment solely on the following conditions:

- 4.3.1 any sale shall be effected in the ordinary course of Customer's business at full market value;
- 4.3.2 any such sale shall be a sale of Supplier's property on Customer's own behalf and Customer shall deal as principal when making such a sale; and
- 4.3.3 Customer shall still be responsible for paying to the full value of the Payment. If Supplier requires, Customer shall authorise and direct such third party buyer to pay to Supplier a like part of the sum due to Customer in respect of the Products sold and assign to Supplier such part of the debt owed to Customer by the third party.

4.4 If the Products are attached to or incorporated into or mixed with any other materials or goods or substances or used in any manufacturing process, the property in the new material or good or substance shall vest until Payment in Supplier in the proportion of the value of the Products to the other constituent elements.

4.5 Supplier may at any time until title passes under this Clause 4 without notice recover possession of the Products which are the property of Supplier. Customer hereby grants to Supplier for Supplier and its agents, staff, officers, employees and contractors an irrevocable licence to enter for that purpose any premises then occupied by or in the ownership or possession of Customer or Customer's customer. Customer shall indemnify Supplier against all claims, losses, damages, liabilities, costs and expenses so arising.

4.6 Supplier shall be entitled to recover payment for the Products not with standing that ownership of any of the Products has not passed

from Supplier.

4.7 On termination of this Contract, howsoever arising, Supplier's rights contained in this Clause 4 shall remain in effect.

5. CUSTOMER REQUIREMENTS

5.1 Customer agrees that, as between it and Supplier, Customer shall be responsible for ensuring that:

- 5.1.1 the Products meet its and its customers' requirements and purposes and is suitable for all anticipated uses;
- 5.1.2 the Products are properly installed, maintained and used in accordance with Supplier's instructions (including as set out in the Brochure and any installation instructions supplied by Supplier on or before delivery), and installed and maintained by service people of the highest level of competence and training acting with all due care and skill; and
- 5.1.3 the location of the Products is in a sensible place for installation, maintenance or other servicing (taking into account the cost and feasibility of replacing the Products periodically through wear and tear or to replace a faulty Product). Customer (or Customer's customer) shall be responsible for all costs incurred in any such installation, maintenance or servicing;

6. **WARRANTY** - See separate Warranty Page.

7. LIABILITY

7.1 This Clause 7 prevails over all other Clauses and sets forth the entire Liability of Supplier, and the sole and exclusive remedies of Customer, in respect of:

7.1.1 performance, non-performance, purported performance, delay in performance or mis-performance of this Contract or of any goods or services in connection with this Contract; or

7.1.2 otherwise in relation to this Contract or entering into this Contract.

7.2 Supplier does not exclude or limit its Liability for:

7.2.1 its fraud; or

7.2.2 death or personal injury caused by its Breach of Duty; or

7.2.3 any breach of the obligations implied by Section 12 Sale of Goods Act 1979 or Section 2 Supply of Goods and Services Act 1982; or

7.2.4 supply of a defective Product in accordance with Part I of the Consumer Protection Act 1987; or

7.2.5 any other Liability which cannot be excluded or limited by applicable law.

7.3 Subject to the Clause 7.2, Supplier does not accept and hereby excludes any Liability for Breach of Duty other than any Liability arising pursuant to the terms of this Contract.

7.4 Subject to the Clause 7.2, Supplier shall not have any Liability in respect of any:

7.4.1 indirect or consequential losses, damages, costs or expenses;

7.4.2 loss of actual or anticipated profits;

7.4.3 loss of contracts;

7.4.4 loss of anticipated savings;

7.4.5 loss of revenue;

7.4.6 loss of goodwill;

7.4.7 loss of reputation;

7.4.8 loss of business;

7.4.9 loss of operation time; or

7.4.10 loss of opportunity;

suffered by Customer in respect of this Contract whether or not such losses were reasonably foreseeable or Supplier or its agents or contractors had been advised of the possibility of Customer incurring such losses. For the avoidance of doubt, Clauses 7.4.2 to 7.4.10 apply whether such losses are direct, indirect, consequential or otherwise.

7.5 Subject to Clause 7.2, the total aggregate Liability of Supplier arising out of or in connection with all claims in aggregate (including warranty claims and losses relating to the breach of warranty) shall be limited to the greater of:

7.5.1 £5,000; or

7.5.2 200% of the total sums paid and 200% of the total other sums payable (in aggregate) by Customer to Supplier under this Contract in respect of the particular Products for which there are such claims.

7.6 The limitation of Liability under Clause 7.5 has effect in relation both to any Liability expressly provided for under this Contract and to any Liability arising by reason of the invalidity or unenforceability of any term of this Contract.

7.7 In this Clause 7:

7.7.1 "Breach of Duty" means the breach of any (i) obligation arising from the express or implied terms of a contract to take reasonable care or exercise reasonable skill in the performance of the contract or (ii) common law duty to take reasonable care or exercise reasonable skill (but not any stricter duty); and

7.7.2 "Liability" means liability in or for breach of contract, Breach of Duty, misrepresentation, restitution or any other cause of action whatsoever relating to or arising under or in connection with this Contract, including liability expressly provided for under this Contract or arising by reason of the invalidity or enforceability of any term of this Contract (and for the purposes of this definition, all references to "this Contract" shall be deemed to include any collateral contract).

8. FEES

8.1 Customer shall pay to Supplier the Fee and other sums due under this Contract.

8.2 Where Supplier requires a particular part of a Fee to be paid in advance of delivery of the Products, delivery of the Products is conditional on Supplier first receiving the advanced Fee and any other sums due in cleared funds in full from Customer.

8.3 Unless otherwise stipulated in the Quotation or Long Term Agreement (or otherwise agreed between the Parties in writing), Supplier may issue invoices to Customer for the Fee (or the relevant part) and other sums due in connection with the Fee upon delivery (or making available for collection) of the Products (or part of them).

8.4 Subject to Clause 8.2, unless otherwise provided in the Quotation or Long Term Agreement, Customer shall pay Supplier for any sums due under this Contract within 30 days after the date of the invoice for the relevant sums.

8.5 All Fees and sums due under this Contract are exclusive of any value added tax or other duties or taxes (if applicable) which shall be payable in addition at the same time as payment of the Fees and other sums due.

8.6 Customer shall pay Supplier by any payment method reasonably stipulated by Supplier.

8.7 Unless otherwise stipulated in this Contract or agreed in writing between the Parties, payment shall be in the currency in force in England from time to time.

8.8 Time for payment shall be of the essence.

8.9 Payment shall be deemed made when Supplier has received cleared funds in full.

8.10 Payment of all sums due to Supplier under this Contract shall be made by Customer in full without any set-off, deduction or withholding whatsoever.

8.11 If Customer is late in paying any part of any monies due to Supplier under this Contract or any other agreement between the Parties, Supplier may under this Contract or by any statute, regulation or bye-law) do any or all of the following:

8.11.1 charge interest on the amount due but unpaid at the annual rate of interest set under Section 6 of the Late Payment of Commercial Debts (Interest) Act 1998 from time to time from the due date until payment (after as well as before judgment), such interest to run from day to day and to be compounded monthly; and

8.11.2 sell or otherwise dispose of any Products which are the subject of any Order, whether or not appropriated thereto, and apply the proceeds of sale to the overdue payment; and

8.11.3 suspend the performance of this Contract and any other agreement between Supplier and Customer until payment in full has been made.

9. TERM AND TERMINATION

9.1 This Contract shall commence when it becomes legally binding in accordance with Clause 2.10 and, unless terminated earlier by either Party exercising any right of termination as set out in this Contract, shall continue in force until the later of:

9.1.1 Customer having paid for the Fees and all sums in full; and

9.1.2 Supplier having despatched all the Products.

9.2 Either Party may terminate this Contract immediately by notice in writing to the other Party if:

9.2.1 the other Party is in persistent breach of any of its obligations under this Contract or any other agreement between the Parties; or

9.2.2 the other Party is in material breach of any of its obligations under this Contract or any other agreement between the Parties which is incapable of remedy; or

9.2.3 the other Party fails to remedy, where capable of remedy, any material breach of any of its obligations under this Contract or any other agreement between the Parties after having been required in writing to remedy such breach within a period of no less than 30 days; or

9.2.4 the other gives notice to any of its creditors that it has suspended or is about to suspend payment or if it shall be unable to pay its debts within the meaning of Section 123 of the Insolvency Act 1986, or an order is made or a resolution is passed for the winding-up of the other Party or an administration order is made or an administrator is appointed to manage the affairs, business and property of the other Party or a receiver and/or manager or administrative receiver is appointed in respect of all or any of the other Party's assets or undertaking or circumstances arise which entitle the court or a creditor to appoint a receiver and/or manager or administrative receiver or administrator which entitle the court to make a winding-up or bankruptcy order or the other Party takes or suffers any similar or analogous action in consequence of debt.

9.3 In any event, Supplier may terminate this Contract if Customer is at least 10 Business Days' late in paying any sum due under this Contract.

9.4 Termination of this Contract shall be without prejudice to any accrued rights or remedies of either Party.

9.5 Termination of this Contract will not affect the coming into force or continuance in force of any provision which is expressly or by implication intended to come into or continue in force on or after such termination.

9.6 Upon termination of this Contract for any reason:

9.6.1 Supplier shall cease to perform this Contract; and

9.6.2 all outstanding Fees and any other sums shall become immediately payable, whether invoiced or not.

10. FORCE MAJEURE

10.1 Save for obligations in respect of payment of the Fees, neither Party shall have any Liability for any breach, hindrance or delay in the performance of this Contract attributable to any cause beyond its reasonable control including any event beyond the reasonable control of either party including Acts of God, actions or demands or requirements of third parties (including hackers, suppliers, governments or supra-national authorities), insurrection, riot, civil commotion, war, hostilities, warlike operations, enemy action, national emergencies, act of terrorism, piracy, arrests, restraints or detentions of any competent authority, strikes or combinations or lock-out of workmen, epidemic, fire, explosion, storm, flood, drought, earthquake, natural disaster, natural catastrophe, accident, mechanical breakdown, third party software, failure or problems with public utility supplies (including electrical, telecoms or general internet failure), unavailability or shortage of or inability to obtain materials, equipment, containers or transportation ("Event of Force Majeure"), regardless of whether the circumstances in question could have been foreseen.

10.2 Each of the Parties agrees to inform the other upon becoming aware of an Event of Force Majeure, such notice to contain details of the circumstances giving rise to the Event of Force Majeure.

10.3 The performance of each Party's obligations shall be suspended during the period that the circumstances persist and such Party shall be granted an extension of time for performance equal to the period of the delay.

10.4 Each Party shall bear its own costs incurred by the Event of Force Majeure.

10.5 Should any performance of obligations be delayed under this Clause 10, each Party shall nevertheless accept performance as and when the other shall be able to perform.

10.6 If the Event of Force Majeure continues without a break for more than one month, either Party may terminate this Contract immediately by notice to the other, in which event neither Party shall have any Liability by reason of such termination.

10.7 If Supplier has contracted to provide identical or similar products to more than one customer and is prevented from fully meeting its obligations to Customer by reason of an Event of Force Majeure, Supplier may decide at its absolute discretion which contracts it will perform and to what extent.

11. NOTICES

11.1 Any notice or other communication required or authorised to be given under this Contract shall be in writing and may be served by personal delivery or by recorded delivery letter (if to an address in the same country) or by overnight courier or by facsimile addressed to the relevant Party at its address stated in this Contract or at such other address or facsimile number as is notified by the relevant Party to the other for this purpose from time to time or at the address or facsimile number of the relevant Party last known to the other.

11.2 Any notice so given by post shall be deemed to have been served two Business Days after the same shall have been despatched to the overnight courier or Post Office and any notice so given by facsimile shall be deemed to have been served upon receipt of an answer back signal from the receiving machine, and in proving such service it shall be sufficient to prove that the letter or facsimile was properly addressed or numbered and, as the case may be, despatched or an answer back signal received.

12. ASSIGNMENT

12.1 Subject to any assignee (in the case of an assignment) confirming in writing to be bound by the provisions of this Contract, Supplier may assign, transfer, novate or subcontract its rights, liabilities or obligations under this Contract either in whole or in part to any other person, firm or company. Supplier shall promptly give notice to Customer of any assignment, transfer or novation.

12.2 Customer shall not assign, transfer, novate or charge or purport to assign, transfer, novate or charge this Contract or any of its rights, liabilities or obligations under this Contract without the prior written consent of Supplier.

13. GENERAL

13.1 No failure or delay by either Party in exercising any right under this Contract shall operate as a waiver of such right or extend to or affect any other or subsequent event or impair any rights or remedies in respect of it or in anyway modify or diminish that Party's rights under this Contract.

13.2 If any Clause or other provision in this Contract shall become or shall be declared by any court of competent jurisdiction to be invalid or unenforceable, such invalidity or unenforceability shall in no way affect any other Clause or provision or part of any Clause or provision, all of which shall remain in full force and effect.

13.3 Nothing in this Contract shall create or be deemed to create a partnership, an agency or a relationship of employer and employee between the Parties.

13.4 A person who is not a Party to this Contract has no rights under the Contracts (Rights of Third Parties) Act 1999 in respect of any term of this Contract.

13.5 This Contract shall be governed by and construed in accordance with English law and Customer hereby submits to the jurisdiction of the English courts. The parties irrevocably agree that the English courts shall have exclusive jurisdiction over any claim or matter brought by Customer in relation to this Contract. Nothing in this Clause 13.5 shall limit the right of Supplier to take proceedings against Customer in any other court of competent jurisdiction. All dealings, correspondence and contacts between the parties shall be made or conducted in the English language.

14. STOCK CLEANSE POLICY

14.1 The company does operate a stock cleanse and goods return policy for stockists of the Lumineux range of products, please contact your Account Manager for details and terms.

Version: 20 September 2017

Warranties

WARRANTY

- 6.1 Subject to the rest of this Clause 6, Supplier warrants that: the Products shall be free from material defects in design, workmanship and materials and conform to the specification for the Products set out in the Brochure or specification sheet.
- 6.2 The warranty set out in clause 6.1 above shall be in addition to any other warranty statement set out on the specification sheet or otherwise as expressly agreed in writing between the Supplier and the Customer.
- 6.3 Supplier is not responsible for any services or products not expressly stipulated in this Contract that Supplier will provide. Except for any matter upon which Supplier specifically agrees in writing with Customer to advise or do, Supplier shall not have any Liability for advising on, or failing to advise on, or doing, or failing to do, anything else (including on any laws, rules, regulations, bye-laws or codes of practice).
- 6.4 Supplier shall not have any Liability whatsoever to the Customer for loss of or damage to Products in transit.
- 6.5 Where a warranty claim is made by Customer under Clause 6.1, then, subject to Clause 6.7, Supplier shall at its option:
- 6.5.1 replace or repair; or
- 6.5.2 repay an appropriate portion of the purchase price of; or
- 6.5.3 provide a credit note in respect of a reasonable part of; the delivered Products which are not in conformance with the warranty set out in Clause 6.1. For the avoidance of doubt, the remedies set out in this Clause 6.5 are the sole remedies available to the Customer in respect of a claim made under clause 6.1
- 6.6 Supplier shall not have any Liability for providing Products to the extent caused by Supplier's compliance with and reliance on Customer's instructions or requirements.
- 6.7 Supplier's Liability for defective or damaged Products and any warranty claim is subject to:
- 6.7.1 Customer having signed and returned to the Supplier a copy of the Warranty Claim Terms and Conditions Form;
- 6.7.2 Customer notifying Supplier of any claim promptly upon discovery of the defect or damage and in any event within one month of discovery, specifying with reasonable detail the way in which it is alleged that the Products do not conform to this Contract;
- 6.7.3 Customer having provided Supplier with Supplier's delivery note number and such other information and documentation as Supplier reasonably requires at the same time as the notice in Clause 6.7.1;
- 6.7.4 Customer showing to Supplier's reasonable satisfaction that the defect or damage is solely attributable to Supplier's (or Supplier's subcontractors') defective design, materials or workmanship in the Products and not: (a) wear or tear from normal use; or (b) any installation or servicing by anyone after delivery by Supplier (including the carrier); (c) the combination, incompatibility, attachment, affixation, incorporation or mixing of the Products with any other goods, products, materials or substances; or (d) loss or damage of the Products caused during transit. If Customer is not happy with Supplier's decision on these issues, Customer may pay for an independent expert (subject to the Parties agreeing on an appropriate expert) to decide on whether Supplier has acted reasonably, and the expert's determination shall be final and binding on the Parties and not subject to appeal or other judicial review, save in the case of manifest error by the expert; if the expert decides that Supplier's decision was unreasonable, Supplier shall instead pay for the reasonable costs of the expert;
- 6.7.5 the Products having not been: (a) misused or subjected to neglect, improper or inadequate care or carelessness (including being hit, dropped, kicked, knocked or pushed), abnormal working or usage conditions; or (b) involved in any accident or attempt at repair, replacement, alteration, change or modification or inspection within the Product itself except by or on behalf of Supplier or as approved by Supplier or in accordance with Supplier's instructions; or (c) dealt with or installed or wired or used or stored contrary to good trade practice or any oral or written instructions, advice or recommendation of Supplier (including in the Brochure or any installation instructions provided on or before delivery);
- 6.7.6 Customer allowing and procuring Supplier (or Supplier's representatives) the opportunity to have access to, inspect, test and remove the Products;
- 6.7.7 Customer having paid for the Products in full; and
- 6.7.8 upon Supplier's request, Customer returning the defective or damaged Products strictly in accordance with the Returns Policy (carriage and insurance paid at Customer's risk) to Supplier's premises or such other location stipulated by Supplier anywhere in the world and carefully packed to avoid damage in transit (and Section 36 of the Sale of Goods Act 1979 shall not apply). Unless and until Supplier receives the Products, Customer shall hold the Products safely and securely in good condition.
- 6.8 The warranty contained in this Clause 6 is specifically limited to Customer. No warranty is made to any other person, whether subsequent buyer or user or customer, or to any bailee, licensee, assignee, employee, agent or otherwise.
- 6.9 If Customer makes an invalid claim under the warranty, Supplier may charge Customer for its fees and costs of examining, testing, storing, repairing and replacing the Products and dealing with the claim and removing and delivering the Products. For more information on these fees and costs, please refer to the Warranty Claim Terms and Conditions Form.
- 6.10 Subject to clause 6.2, except where expressly provided for within this Contract, Supplier expressly excludes all conditions, warranties, terms and obligations, whether express or implied by statute, common law or otherwise, to the fullest extent permitted by law in respect of the supply of the Products.

BATTERIES & BATTERY WARRANTIES

All Lumineux emergency products that are supplied with rechargeable batteries have a battery operation design life of > 4 years (subject to correct usage and installation)

Lumineux offer the following warranties on its emergency batteries

Product warranty of 5 years have 2 year battery warranty
Product warranty of 3 years have 1 year battery warranty

Operation temperatures

0° to +30° unless specified on data sheet as standard operating temperatures

Lumineux Emergency Packs

401417 3 years and 1 year battery warranty
421220 3 years and 1 year battery warranty
421292 4 years and 2 years battery warranty

Specific Battery Warranty Conditions

The above warranties are subject to the products being installed and maintained in accordance with the instructions supplied with the products and/or as set out in the product specification sheet.

Particular notice should be taken of all guidance and specifications quoted with regards to installing batteries in high ambient temperatures. Installing Lumineux emergency products in environments with higher ambient temperatures than those specified will void all warranties on those products.

Warranty Obligations

The company's obligations under this warranty is to repair and/or replace any defective parts or products at our sole discretion, providing such defective parts or products are brought to our attention within the specified warranty time period. B&T Associates Ltd / Lumineux is not responsible for any costs associated with the removal or replacement of defective parts and/or products or installation costs or consequential damages, however caused. In any event the maximum liability of the company under this warranty shall not exceed the purchase price of the product.

Technical Glossary

AC (~)	Alternating Current, as found in the mains power supply.
Ampere (Amp)	The unit for measuring rate of electrical current: Current (Amps) = Power (Watts) / Voltage (Volts).
Ballast	A device that limits the amount of current in an electrical circuit.
Beam Angle	The degree of width that light emits from a lightsource. It refers to the angle between the opposing points on the beam axis where the intensity drops to 50%. There are many descriptions for the beam angle from narrow spot to wide flood.
Current	The flow of electrons. Measured (in amps) as the number of particles passing a given point per unit of time. Current can be induced by application of an electric field through a conductor or by changing the electric field across a capacitor.
COB	Abbreviation for Chip on Board. Chip on Board technology groups LEDs together in clusters straight onto the circuit boards. The benefits of COB LEDs are the extremely bright light output, long lamp life, high Lumen output and a greater level of efficiency.
Colour Rendering Index (CRI) The quality of light	A measure of the ability of a light source to reproduce the colours of a reference light. CRI is rated on a scale from 1-100. The lower the CRI rating, the less accurately colours will be reproduced. A light source with a CRI = 100 (Ra) would be a perfect reproduction.
Colour Temperature	Can simply be described as the colour characteristics of a light source. Colour temperature is measured in degrees Kelvin. A low colour temperature produces a warm yellowish light and a high colour temperature gives a cold blue light. Usually ranging from warm (yellowish) to daylight (very blue).
DALI	Abbreviation for Digital Addressable Lighting Interface, where each driver and control component such as a sensor or switch has a unique address on the lighting installation. This allows for configuration of the lighting installation and flexibility in the future.
Diffuser	Optical element used to diffuse light to improve uniformity.
Dimming	Many Lumineux luminaires are available as a dimmable version. Generally this requires a different driver to the standard fixed output driver and also may require additional wiring on site to operate/control the dimming function.
Driver	The driver is often the critical component in a LED luminaire or lamp, more so than the LED chip itself. The driver has to be matched to the power requirements of the LED chip and also have quality components. Drivers that use inferior components such as capacitors will fail before the rated life of the LED chip, reducing the claimed life by as much as 50%.
Efficacy	Used to describe the efficiency of a lamp and is measured in lumens per watt (Lm/W). To determine the efficacy of a lamp you divide the lumen output of the lamp by the watts consumed.
Emergency Lighting	Facilitates the safe evacuation of an area in the event of a mains failure. The positioning and number of emergency lighting luminaires is detailed in the British Standard, BS5266. It is vital that emergency lighting is maintained correctly to ensure batteries are conditioned so it operates when required.
Fire Rated	A fire rated downlight incorporates materials that will expand when heated above a certain temperature to block any gaps and maintain the ability to keep a fire from spreading to other areas of the structure. The fire rating is only approved after the product has been tested and shown to withstand exposure to fire within certain time limits.
Flood Light	A lamp that provides a broad beam intended to light a general area.
Frequency	Applies to AC only and is the number of sine waves per second. The power supply wavelength fluctuates and is measured in Hertz.
Inrush Current	Components such as drivers can have high inrush currents for milliseconds due to the use of capacitors, this should be considered when specifying switching and breaker ratings.
Kelvin	The SI unit used to measure and denote colour temperature, degrees Kelvin.
KWh	Kilo-Watt-hour is the typical billing unit for electricity costs and represents 1kW of power over a 1 hour duration.
LED	Abbreviation for Light Emitting Diode. An electronic semiconductor device that emits light when electricity is passed through it.

Light Engine	LED light engine or LLE is the combination of one or more LED modules, together with an LED driver meaning it is ready to be fixed in the luminaire.
LM-80	In order to facilitate a comparison of the long term performance between different LEDs, the LED industry developed a standard, IES LM-80-08, which specifies how LED manufacturers and lighting manufacturers can test LED components to determine their performance over time. The LM-80 standard calls for operating a set of LED devices for a minimum of 6,000 hours under well controlled operating conditions (e.g. a constant DC drive current in a thermal chamber where the LED temperature and surrounding air temperature are controlled within specified limits). The LED samples are regularly removed (e.g. every 1,000 hours) from the thermal chamber in order to test relevant electrical and optical parameters for each LED, including forward voltage, light output, and colour point. Once the test reaches at least 6,000 hours, all test data is summarised in a comprehensive LM-80 test report.
TM-21	For many applications it is important to estimate when the light output will drop below 70% of the initial light output. However, given their excellent long-term performance, white LEDs typically exhibit only a small drop in light output after 6,000 hours. Therefore, the LED industry adopted a method, described in IES TM-21-11, to fit an exponential lumen maintenance model to actual LM-80 data. This model can then be used to project the average lumen maintenance of an LED product beyond the actual number of operating hours tested.
LM-70	Lumen maintenance is a prediction of the number of hours an LED will operate before it fades below a useful level of intensity. Currently, lumen maintenance reporting assumes that dropping below 70% of initial lumen output is the end-of-life for the emitter. Hence, L70 predicts when the LED reaches 70% of initial lumen output.
Lumens Per Circuit Watt (LpcW)	A calculation of the efficiency of a fitting. Lumens (4000) ÷ Wattage (50W) = 80lpcW.
Lumen Depreciation (L70) - Reduction of light output from the fitting	Lumen depreciation reflects the overall performance of a light source through its life. All light sources will encounter lumen depreciation. Factors such as poor thermal management or over voltage may accelerate lumen depreciation. Light levels can be defined as L90, L80 or L70. This is the point at which the Lumen output has depreciated to 90%, 80% or 70% of its original lumens.
Luminous Flux	The overall light output of a lamp or luminaire measured in lumens.
Lux	A measure of the intensity of light is measured by luminous flux per unit area. One lux is equal to one lumen per square metre.
Maintained Emergency	A maintained emergency luminaire is able to be used for both general and emergency lighting. A second live cable allows it to be turned on/off as required and detect a mains power circuit failure.
Microwave Sensor	The sensor emits low power microwaves that form a pattern in the area covered. When movement is detected the sensor turns the light source on. Microwave sensors are only recommended for indoor use as they are sensitive to movement and not heat.
Non-Maintained Emergency	A non-maintained emergency luminaire ONLY operates in emergency mode and is not for general lighting.
Photocell	A photocell / dusk till dawn sensor detects the level of daylight and adjusts accordingly. It changes the resistance depending on how much light is shining onto the sensor and activates or de-activates the light.
PIR (Passive Infrared)	A PIR is a device that is used to detect motion through infrared radiation. When a person walks past the sensor it picks up the change in the sensor field and activates the PIR.
Power Supply	Device that supplies electricity or energy. Most LED power supplies convert line voltage (240V AC) to 12 & 24V DC.
RGB	RGB stands for the colours Red, Green and Blue. They are the 'primary' light colours which come together to make other colours e.g. 'White' light is made up of Red, Green and Blue light. In LED RGB lighting systems, Red Green and Blue LEDs are used together to produce many possible colours and provide unique lighting effects.
Self-Contained	The most common type of Emergency lighting luminaire, where all of the components are within one Emergency luminaire. This can include gear boxes connected directly to individual luminaires but outside the main luminaire housing. If within 1m, it is classed as self-contained.
SMD	Abbreviation for Surface Mount Device. SMDs are very small LEDs which are attached to a circuit board. Surface Mounted Device can be grouped together to achieve a higher level of brightness than standard LEDs.
Wattage	The power consumed by the LED.

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
		7	Protected against the effects of immersion
		8	Protected against submersion

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.

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

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 weight 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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Manby Business Park, Manby, Louth,
Lincolnshire, LN11 8UT, UK

Tel: 01507 328031

Fax: 01507 328039

Email: sales@lumineux.co.uk

Monday - Thursday : 8.00am to 5.00pm

Friday : 8.00am to 3.00pm



www.lumineux.co.uk

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