

PERFORMANCE GUARANTEE



“Spectre Lighting delivers precision engineered illumination for environments where performance and reliability matter.”

A Legacy of Lighting Expertise

Precision in Every Detail

Spectre Lighting is built on a singular conviction: professional environments and installers deserve lighting engineered with absolute precision. We combine advanced optical performance, precise engineering and extensive lighting development experience with an unwavering commitment to reliability, creating luminaires that perform flawlessly in demanding commercial applications.

Lighting is more than our industry, it's our craft. Our team brings decades of experience across product development, technical support and pre and post sales service. While the brand is new, the expertise behind it is deeply established

Together, we shape products and services that support commercial environments of every scale. From major infrastructure projects to refined architectural details, we understand how light influences people, performance and place.

Engineering Excellence at Our Core

Spectre Lighting operates at the intersection of design, technology and manufacturing. Our experts collaborate to develop luminaires with exceptional photometric performance and long term reliability.

Every fixture is engineered as a complete system, optics, drivers, thermal management and mechanical architecture fully integrated.

Advanced Product Development

Innovation at Spectre Lighting is focused, structured and data driven.

Our development process integrates:

- *Thermal modelling to optimise heat dissipation and extend component life*
- *Precision optical design to maximise efficiency and output*
- *Electronics engineering for efficiency and long term driver reliability*
- *Material research to ensure structural integrity, durability and environmental compatibility*

This disciplined approach enables us not only to meet specifications, but to redefine the standard of commercial lighting.

Testing Beyond Compliance

Reliability is engineered and proven through testing. Every luminaire is validated against international standards, often exceeding them. If a product carries the Spectre Lighting name, it is built to perform consistently for years in real world conditions, not just controlled environments.

Reliability Without Compromise

Every component, from LED packages to mechanical fasteners, is selected with longevity in mind. Our luminaires are engineered for stable output, minimal colour shift and dependable performance across diverse environments. Reliability isn't a promise, it's a measurable outcome.

Technical Partnership & Support

Our service model is rooted in partnership. We work closely with specifiers, contractors and end users to ensure optimal system performance, from design consultation and photometric analysis to installation guidance and post-deployment technical support. When challenges arise, we respond with clarity, expertise and urgency.

Shaping the Future of Commercial Illumination

As lighting technology evolves, Spectre Lighting continues to advance optical efficiency, refine engineering processes and push technological boundaries. Our mission is to set the benchmark for technical excellence and service in commercial lighting.

Spectre Lighting delivers precision engineered illumination for environments where performance and reliability matter. Always going above and beyond.





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Customer Experience

At Spectre Lighting we believe in going above and beyond to deliver clear communication, expert guidance and dependable support. By consistently delivering on these principles, we aim to provide a professional and positive customer experience.

Expert Guidance

Our knowledgeable staff will provide personalised assistance to help customers make informed decisions and find the right solutions for their needs.

Transparent Communication

Customers can expect clear and honest communication regarding pricing, product details, and any changes that may affect their experience.

Seamless Support

Customers will have access to reliable customer service through various channels, including phone, email and social media, ensuring help is always available.

Fast and Efficient Service

We prioritise quick response times and efficient delivery to respect our customers' time and enhance their overall experience.

Next Day Delivery / Collections

Our team is on hand to support next day delivery and local collections, helping projects stay on schedule.

Quality Products and Services

We are committed to offering high quality solutions backed by rigorous quality assurance processes.

Flexible Options

Customers can choose from a variety of solutions, including customisable products and service options, to meet their individual requirements.

Feedback Driven Improvements

We actively value customer feedback and use it to refine and enhance our products and services.

“Reliability isn't a promise, it's a measurable outcome.”

Let's Work Together

If you'd like to discuss how Spectre Lighting can support your project and deliver a seamless customer experience, our team is ready to help.

Get in Touch

Unit 8 Gemini 8 Business Park
Charon Way, Apollo Park
Warrington, WA5 7AE

info@spectre-lighting.com
01925 949 494



Peace of Mind

Warranty and Warranty Period

Spectre Lighting warrants to the original end user that all manufactured products and components will be free from defects in materials and workmanship for the duration of the applicable warranty period.

The warranty period begins on the date of invoice to the end user. If proof of invoice cannot be provided, the warranty period will instead begin on the date the product was dispatched from Spectre Lighting.

Usage Limitations

Domestic Use:

- Up to 5 hours per day
- 7 days per week
- 52 weeks per year
- Total annual usage: 1,820 hours

Commercial Use:

- Up to 12 hours per day
- 6 days per week
- 52 weeks per year
- Total annual usage: 7,488 hours



“We are committed to offering high quality solutions backed by rigorous quality assurance processes.”

Spectre Lighting's Warranty Obligations

Spectre Lighting's sole responsibility under this warranty is to repair or replace the product(s) during the warranty period.

Spectre Lighting is not responsible for delays in repair or replacement. Any repaired or replaced product will remain covered for the remainder of the original warranty period.

If a product is deemed beyond repair, Spectre Lighting may, at its sole discretion, provide a new product or one of equivalent specification.

Warranty coverage applies only to repairs carried out by Spectre Lighting's approved technicians or authorised service agents.

If no fault is found that falls within the terms of the Extended Warranty, Spectre Lighting reserves the right to charge reasonable inspection or service costs.

Spectre Lighting shall not be liable for any loss of profit, or any special, indirect or consequential loss, or any costs, damages, charges, fees or expenses except for liability that Spectre Lighting is not allowed to exclude by law.

Disclaimer of Other Warranties

No other warranties, expressed or implied, are given, and Spectre Lighting expressly disclaims all other warranties, including and without limitation, the implied warranties of merchantability and fitness for purpose.

Limitations

No salesperson, representative, distributor, or agent is authorised to alter or contradict this Limited Warranty. Any modification must be in writing and signed by an authorised representative of Spectre Lighting.

Additional limitations include:

- Spectre Lighting accepts no responsibility for the suitability of products for specific applications, including compatibility with other products.
- Products that have been tampered with, altered, or incorrectly installed will not be covered.
- Technical information or recommendations provided by Spectre Lighting are based on believed-reliable testing but do not constitute a guarantee.
- Spectre Lighting is not liable for loss of profits, goodwill, or any special, incidental, or consequential damages relating to products or components.

Warranty Exclusions

Additional limitations include:

- Modification or repair by the installer, end user, or any unauthorised service provider.
- Installation errors, incorrect or unstable power supply, lack of maintenance, accidental damage, or neglect by the installer, end user, or third parties.
- Installation not carried out by a qualified electrician or authorised installer where required by law or by Spectre Lighting's instructions.
- Failure to protect the product from external damage, extreme temperatures (operating range 0–25°C), humidity, electrical fluctuations, or poor installation workmanship.
- Corrosion or damage caused by installation in environments containing chemicals, fertilisers, or heavily polluted air, including proximity to chemical plants.
- Misuse or intentional damage by the owner or third parties.
- Use of non-approved parts, lamps, cleaning products, or third-party components.
- Failure to replace emergency luminaire battery packs after four years. All emergency luminaires must be tested in accordance with BS EN 5266-8-2004. Increased testing frequency may require earlier battery replacement.

Exceeding Product Limitations

- Labour costs are not covered under this warranty.
- Spectre Lighting is not liable for loss of profit or any special, indirect, or consequential damages, except where legally prohibited from excluding such liability.
- Carriage costs for returned items are not covered.

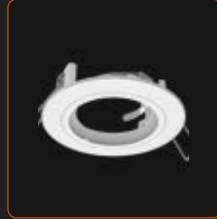
Battery Warranty Coverage

Lithium Batteries:

- Covered under a standard 5-year warranty from the date of purchase.
- All emergency luminaires must be tested in accordance with BS EN 5266-8-2004. Increased testing frequency may result in earlier-than-standard battery replacement.



Indoor



DOWNLIGHTS
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TRACK
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LED STRIP
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DRIVERS
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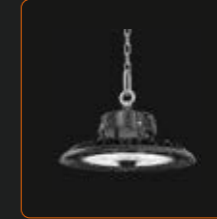
Industrial



BATTEN
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NCF
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HIGH BAY
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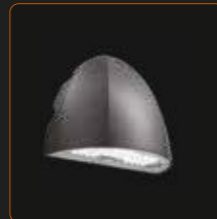
Outdoor



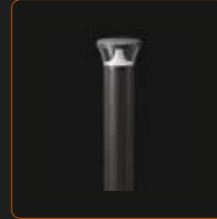
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WALL LIGHT
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Module



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Commercial



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COMMERCIAL CIRCULAR
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Emergency



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EMERGENCY BULKHEAD
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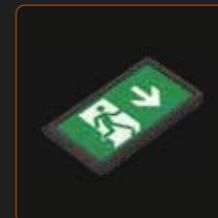


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Floodlighting



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TWIN SPOT
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Electrical Class



Colour Rendering Index



Lumens Per Watt



Beam Angle



Unified Glare Rating



Colour Temperature Selectable / Switchable



Multi Wattage / Wattage Selectable



IP Rating



IK Rating



Warranty



Indoor Use Only



Bathroom Zone Suitability



Dimmable Product



Dimmable Option Available



Emergency Option Available



Sensor Option Available



Indoor

Downlights

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Track

Track Acc

LED Strip

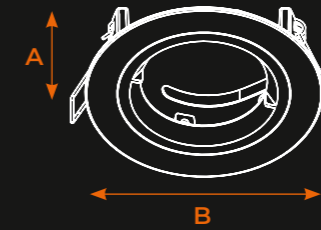
LED Strip Acc

LED Strip Controllers

LED Strip - Profiles

Drivers

DL Core



DLight
A: 45mm
B: 120mm

DLight Tilt
A: 45mm
B: 120mm

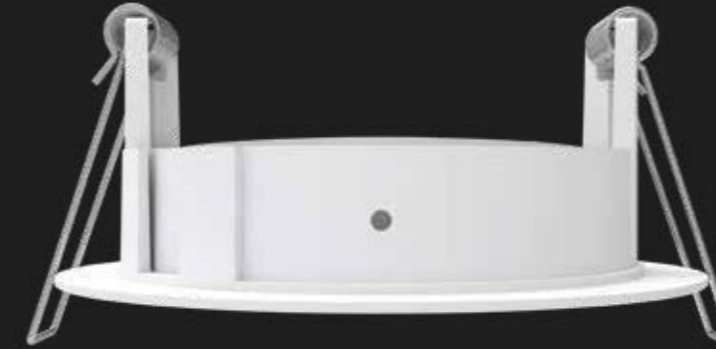
IP DLight
A: 65mm
B: 115mm



DL Core Downlight

Product Features

- Die-Cast Aluminium Downlight
- Twist assembly / centre ring for easy lamp replacement
- Design elements to facilitate ultra-fast installation.
- 3 way remote push-fit terminal block.
- IP65 version suitable for Bathroom Zones 1&2



S-DC-DL/GU10/W - Side



S-DC-DL/GU10/W - Back

Product Code	Description	Colour/Finish	Cut Out
S-DC-DL/GU10/B	DL Core DLight GU10	Black	83
S-DC-DL/GU10/BC	DL Core DLight GU10	Brush Chrome	83
S-DC-DL/GU10/CH	DL Core DLight GU10	Chrome	83
S-DC-DL/GU10/W	DL Core DLight GU10	White	83
S-DC-DLT/GU10/B	DL Core DLight Tilt GU10 IP44	Black	70
S-DC-DLT/GU10/BC	DL Core DLight Tilt GU10 IP44	Brush Chrome	70
S-DC-DLT/GU10/CH	DL Core DLight Tilt GU10 IP44	Chrome	70
S-DC-DLT/GU10/W	DL Core DLight Tilt GU10 IP44	White	70
S-DC-BDL/GU10/B	DL Core IP DLight GU10	Black	75
S-DC-BDL/GU10/BC	DL Core IP DLight GU10	Brush Chrome	75
S-DC-BDL/GU10/CH	DL Core IP DLight GU10	Chrome	75
S-DC-BDL/GU10/W	DL Core IP DLight GU10	White	75

S-DC-DL/GU10/CH



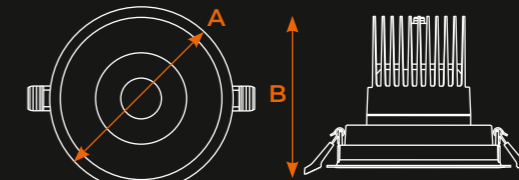
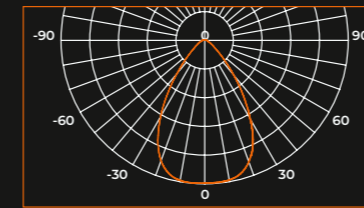
S-DC-DL/GU10/BC



S-DC-DL/GU10/B



ArcBeam



S-AB-80
A: 92mm
B: 93mm

S-AB-125
A: 138mm
B: 121mm

S-AB-150
A: 165mm
B: 134mm

-
- CR1 90
- Lm/W 100
- 50
- 70
- 2
- 3
- IP44
- IK02
- 5V
- 🏠
- ☰
- 👁️



ArcBeam Downlight

Product Features

- High performance architectural downlight system of 100Lm/W.
- Die-cast aluminium heatsink ensures cool and reliable operation.
- Designed with a balanced architectural design and optics.
- Dimmable and Emergency options available.
- Push fit interchangeable reflectors.

Accessories

Product Code	Description	Colour/Finish
S-AB-80/R/B	ArcBeam DLight 80 Reflector Acc Black	Black
S-AB-80/R/CH	ArcBeam DLight 80 Reflector Acc Chrome	Chrome
S-AB-80/R/W	ArcBeam DLight 80 Reflector Acc White	White
S-AB-125/R/B	ArcBeam DLight 125 Reflector Acc Black	Black
S-AB-125/R/CH	ArcBeam DLight 125 Reflector Acc Chrome	Brush Chrome
S-AB-125/R/W	ArcBeam DLight 125 Reflector Acc White	Chrome
S-AB-150/R/B	ArcBeam DLight 150 Reflector Acc Black	White
S-AB-150/R/CH	ArcBeam DLight 150 Reflector Acc Chrome	Black
S-AB-150/R/W	ArcBeam DLight 150 Reflector Acc White	Brush Chrome



S-AB-125/40/B



S-AB-150/R/CH



S-AB-150/R/B

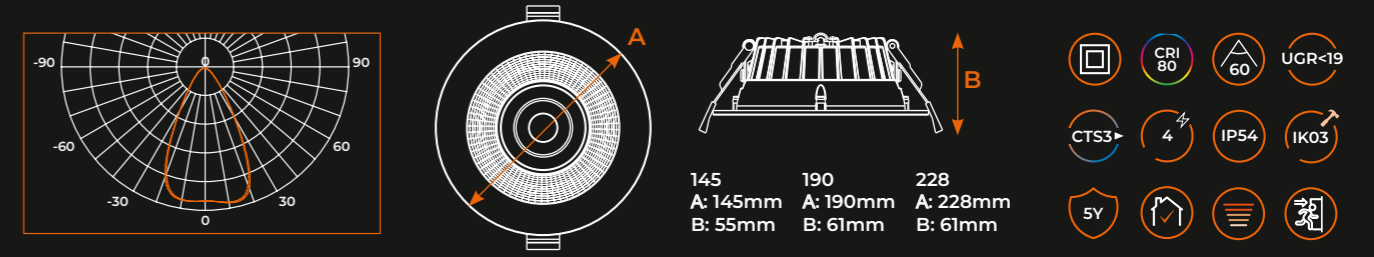


S-AB-150/R/W

Product Code	Description	Wattage	Lumens (lm)	Lm/W	Beam Angle	Cut Out (mm)
S-AB-80/40/B	ArcBeam DLight 80 4000K - Black	12.3W	2,000	100	50°	80
S-AB-80/40/W	ArcBeam DLight 80 4000K - White	12.3W	2,000	100	50°	80
S-AB-125/40/B	ArcBeam DLight 125 4000K - Black	11.8W/17W/21W	2,100 / 2,950 / 3,500	100	70°	125
S-AB-125/40/W	ArcBeam DLight 125 4000K - White	11.8W/17W/21W	2,100 / 2,950 / 3,500	100	70°	125
S-AB-150/40/B	ArcBeam DLight 150 4000K - Black	920.5W/23.8W	3,500 / 4,100	100	70°	150
S-AB-150/40/W	ArcBeam DLight 150 4000K - White	920.5W/23.8W	3,500 / 4,100	100	70°	150



Photos



Photos Downlight

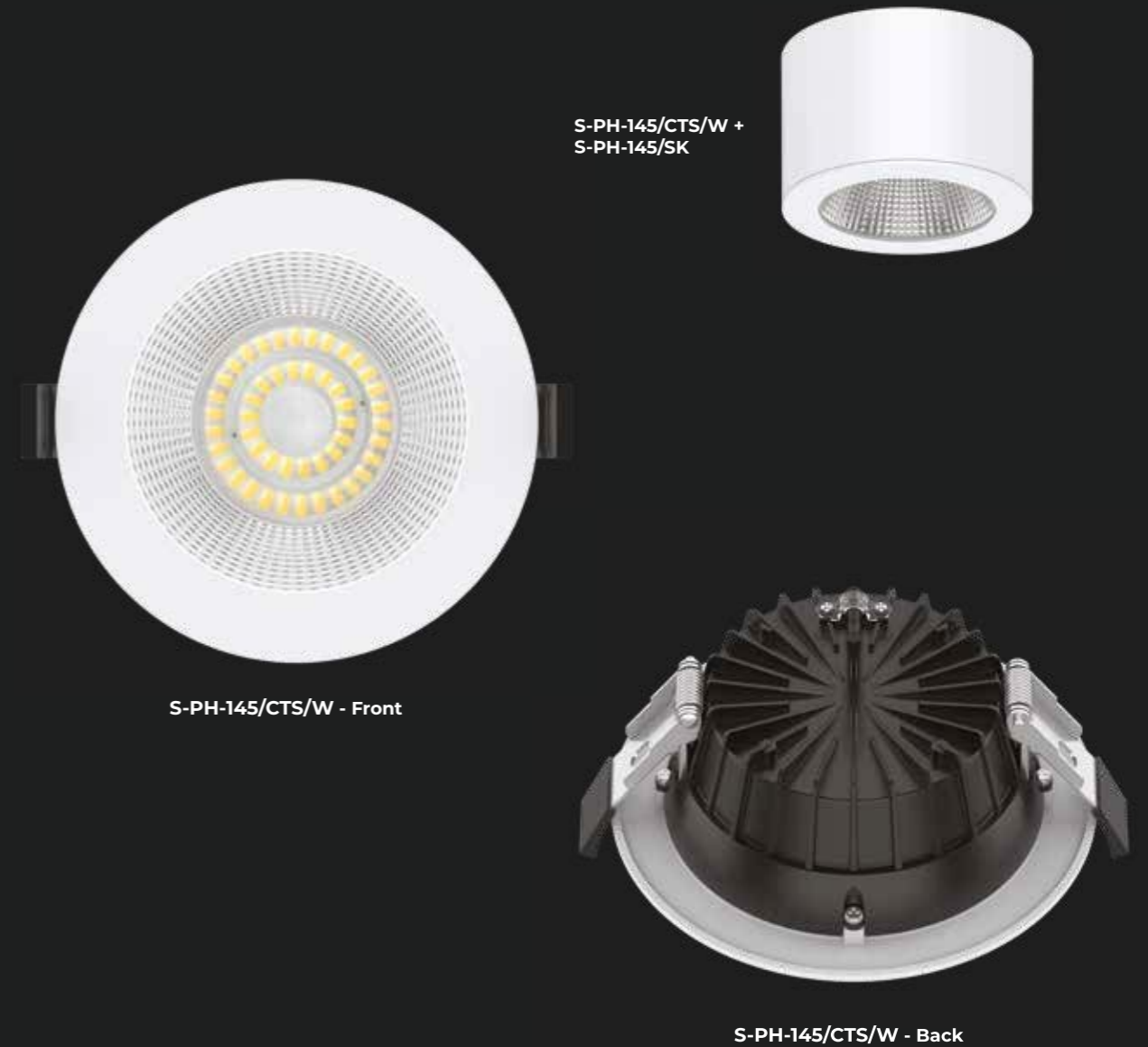
Product Features

- UGR<19 140Lm/W high efficiency recessed downlight.
- Faceted reflective polished aluminium reflector for optimal performance
- Multi CCT Selectable from 3,000K, 4,000K and 6,500K .
- Multi output / power options with 4 options per size.
- Dimmable and Emergency options available.

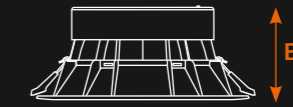
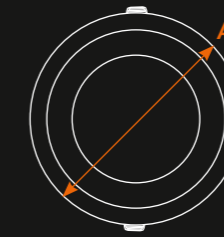
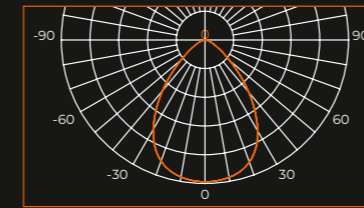
Product Code	Description	Wattage	Lumens	Lm/W	Cut Out (mm)
S-PH-145/CTS/W	Photos Dlight 145 CTS IP54 - White	9W/10W/11W/12W	1,030 / 1,170 / 1,340 / 1,500	125	120-130
S-PH-190/CTS/W	Photos Dlight 190 CTS IP54 - White	12W/16W/20W/24W	1,600 / 2,180 / 2,680 / 3,100	140	160-170
S-PH-228/CTS/W	Photos Dlight 228 CTS IP54 - White	12W/16W/20W/24W	1,630 / 2,230 / 2,750 / 3,300	140	200-201

Accessories

Product Code	Description
S-PH-145/SK	Photos Dlight 145 Surface Kit - White
S-PH-190/SK	Photos Dlight 190 Surface Kit - White
S-PH-228/SK	Photos Dlight 228 Surface Kit - White

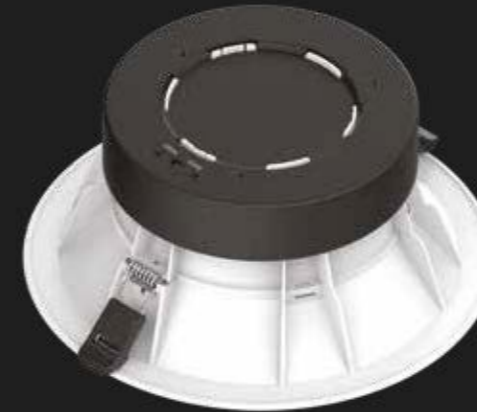


Expanse



DLight
A: 230mm
B: 100mm

- CRI 90
- Lm/W 150
- 80
- UGR < 22
- CTS2
- 2
- IP54
- IK02
- 5Y
- Dimmable
- Emergency



S-EX-23/CTS/W



S-EX-23/CTS/W



S-EX-23/CTS/W

Expanse

Downlight

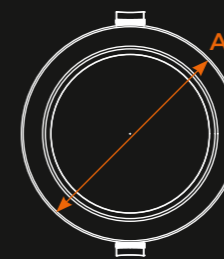
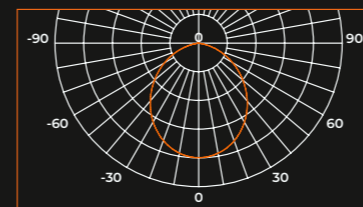
Product Features

- High performance downlight system of 150Lm/W with a CRI90.
- Matt white architectural design for illuminating intended area without light spill and glare.
- Unique reflector design with deep cut off to provide visual comfort.
- Dual CCT selection between 3,000K and 4,000K
- Dimmable and Emergency options available.

Product Code	Description	Wattage	Lumens	Lm/W	UGR	Cut Out (mm)
S-EX-23/CTS/B	Expanse DLight CTS IP54 - Black	12.5W / 18W / 21W	1,900lm / 2,500lm / 3,000lm	150	<22	200
S-EX-23/CTS/W	Expanse DLight CTS IP54 - White	12.5W / 18W / 21W	1,900lm / 2,500lm / 3,000lm	150	<22	200
S-EX-23/LO/CTS/B	Expanse DLight LO CTS IP54 - Black	8.5W	1,400	150	<22	200
S-EX-23/LO/CTS/W	Expanse DLight LO CTS IP54 - White	8.5W	1,400	150	<22	200

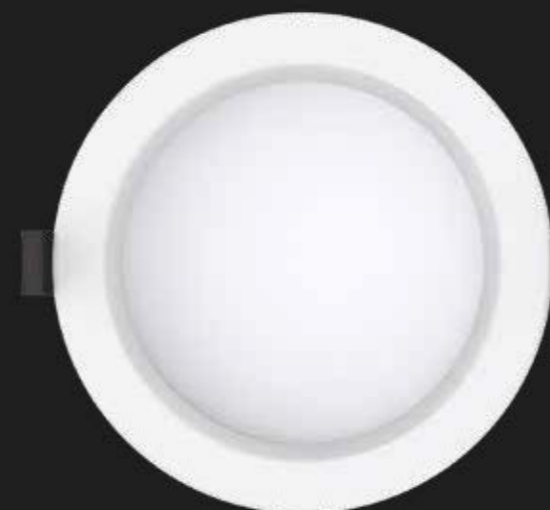


Verolux



115	145	190
A: 115mm	A: 145mm	A: 190mm
B: 52mm	B: 105mm	B: 142mm
235	280	
A: 235mm	A: 280mm	
B: 172mm	B: 209mm	

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S-VL-115/CTS/W



S-VL-115/CTS/W

Verolux Downlight

Product Features

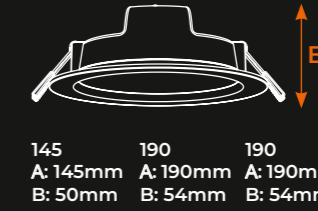
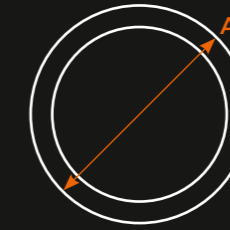
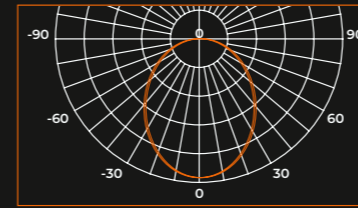
- High efficiency recessed downlight at 120Lm/W.
- Anti-glare optical design providing visual comfort
- Multi CCT Selectable from 3,000K, 4,000K and 6,500K.
- Multi output / power options with 2 options per size.
- Dimmable and Emergency options available.

Product Code	Description	Wattage	Lumens	Lm/W	Cut Out (mm)
S-VL-115/CTS/W	Verolux DLight 115 CTS IP54 - White	10W / 13W	1,175 / 1,450	120	90-95
S-VL-145/CTS/W	Verolux DLight 145 CTS IP54 - White	12W / 15W	1,450 / 1,700	120	120-130
S-VL-190/CTS/W	Verolux DLight 190 CTS IP54 - White	20W / 25W	2,500 / 3,050	125	160-170
S-VL-235/CTS/W	Verolux DLight 235 CTS IP54 - White	28W / 35W	3,450 / 4,300	125	200-210
S-VL-280/CTS/W	Verolux DLight 280 CTS IP54 - White	30W / 40W	3,880 / 5,000	130	230-260

Easy access Multi-Wattage / Colour Temperature Selectable switches

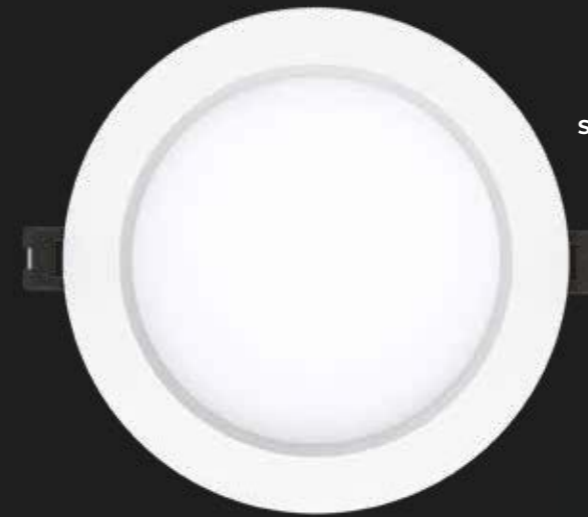


LUMINIS



145 190 190
 A: 145mm A: 190mm A: 190mm
 B: 50mm B: 54mm B: 54mm

-
-
-
-
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-
-



S-LM-DL/145/CTS/W



S-LM-DL/145/CTS/W

LUMINIS Downlight

Product Features

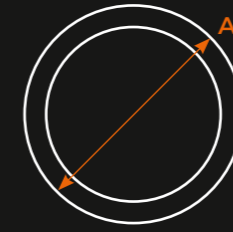
- Versatile shallow integrated IP54 downlight.
- Multi CCT Selectable from 3,000K, 4,000K and 6,000K.
- Power adjustable.
- Design elements to facilitate ultra-fast installation.
- Triac dimmable as standard.

Product Code	Description	Wattage	Lumens	Lm/W	Cut Out (mm)	DIM
S-LM-DL/145/CTS/W	Luminis Dlight 145 CTS IP54 - White	8W / 10W	1,030 / 1,200	130	120-130	Y
S-LM-DL/190/CTS/W	Luminis Dlight 190 CTS IP54 - White	12W / 14W	1,550 / 1,800	130	160-170	Y
S-LM-DL/235/CTS/W	Luminis Dlight 235 CTS IP54 - White	16W / 18W	2,050 / 2,370	130	200-210	Y

Easy access Multi-Wattage / Colour Temperature Selectable switches

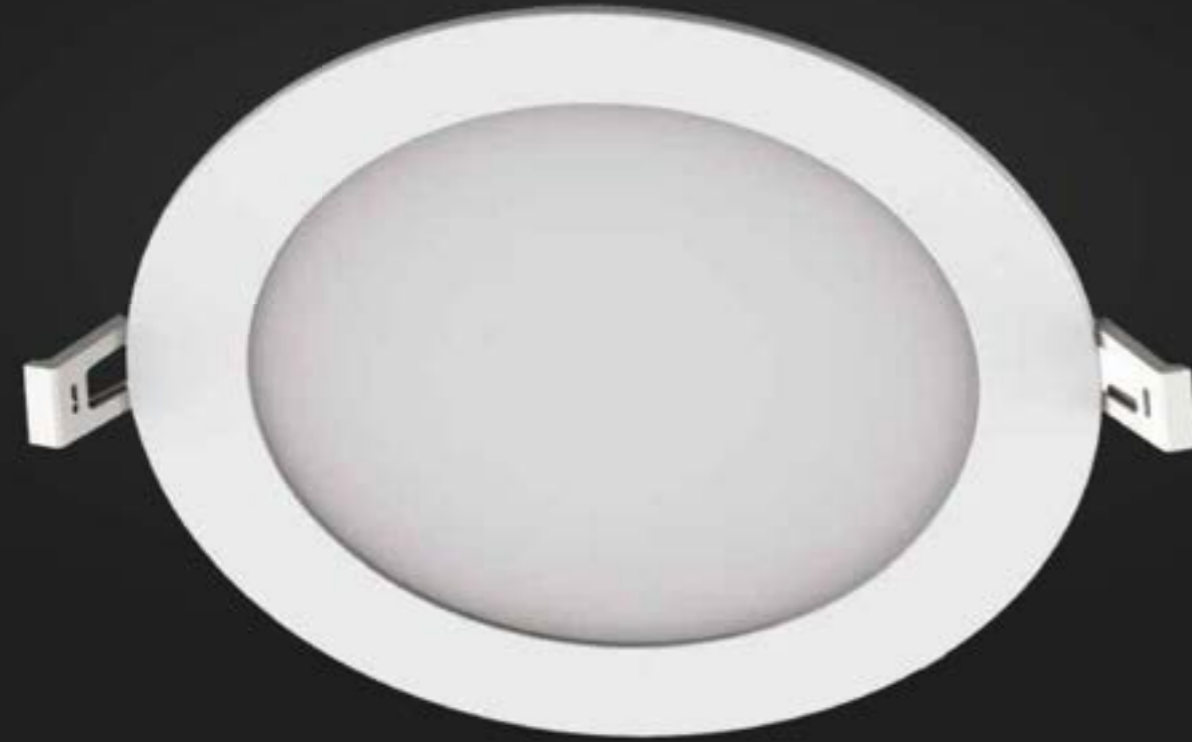


Audra



168	240
A: 170mm	A: 240mm
B: 19mm	B: 19mm
221	296
A: 220mm	A: 300mm
B: 19mm	B: 19mm

- CRI 80
- Lm/W 100
- 90°
- CTS3
- 3
- IP20
- IK03
- 5Y



Audra Downlight

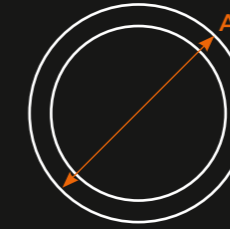
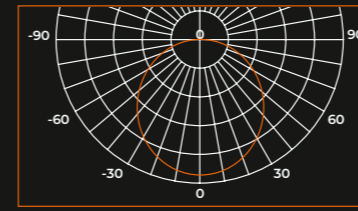
Product Features

- Ultra thin edge lit downlight.
- Die-cast aluminium construction for cool and reliable operation.
- Power / output selectable and CCT adjustable.
- Colour shift resistant PMMA LGP.

Product Code	Description	Wattage	Lumens	Lm/W	Cut Out (mm)
S-AD-168/CTS/W	Audra DLight 168 CTS IP20 - White	6W / 9W / 12W	600 / 900 / 1,200	100	156
S-AD-221/CTS/W	Audra DLight 221 CTS IP20 - White	10W / 14W / 18W	1,000 / 1,400 / 1,800	100	206
S-AD-240/CTS/W	Audra DLight 240 CTS IP20 - White	10W / 15W / 20W	1,000 / 1,500 / 2,000	100	225
S-AD-296/CTS/W	Audra DLight 296 CTS IP20 - White	12W / 18W / 24W	1,200 / 1,800 / 2,400	100	282



Mitra



235 300
 A: 235mm A: 300mm
 B: 22mm B: 25mm

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-
-
-
-
-
-
-



S-MI-235/CTS/PIR/W



S-MI-235/CTS/PIR/W

Mitra Downlight

Product Features

- Slim surface versatile downlight
- Specially designed installation bracket allows options for recessed or surface installations.
- Multi CCT Selectable from 3,000K, 4,000K and 6,500K.
- 3 wattage / output settings per size.

Product Code	Description	Wattage	Lumens	Lm/W	Colour	Cut Out (mm)
S-MI-235/CTS/B	Mitra Adj Downlight 235 CTS IP20	10W/13W/16W	960 / 1,200 / 1,500	100	Black	65-205
S-MI-235/CTS/W	Mitra Adj Downlight 235 CTS IP20	10W/13W/16W	1,080 / 1,340 / 1,600	100	White	65-205
S-MI-300/CTS/B	Mitra Adj Downlight 300 CTS IP20	16W/20W/22W	1,640 / 2,000 / 2,200	110	Black	120-260
S-MI-300/CTS/W	Mitra Adj Downlight 300 CTS IP20	16W/20W/22W	1,700 / 2,100 / 2,500	110	White	120-260
S-MI-235/CTS/PIR/B	Mitra Adj Downlight 235 CTS PIR IP20	10W/13W/16W	960 / 1,200 / 1,500	100	Black	65-205
S-MI-235/CTS/PIR/W	Mitra Adj Downlight 235 CTS PIR IP20	10W/13W/16W	1,080 / 1,340 / 1,600	100	White	65-205
S-MI-300/CTS/PIR/B	Mitra Adj Downlight 300 CTS PIR IP20	16W/20W/22W	1,640 / 2,000 / 2,200	110	Black	120-260
S-MI-300/CTS/PIR/W	Mitra Adj Downlight 300 CTS PIR IP20	16W/20W/22W	1,700 / 2,100 / 2,500	110	White	120-260

S-MI-235/CTS/PIR/W



Jaxor

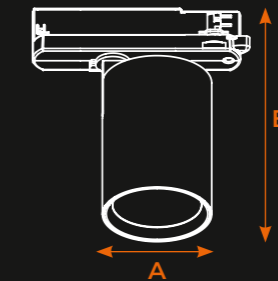
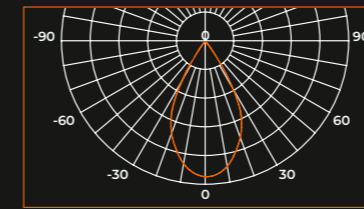


Jaxor
Track

Product Features

- Ultra High Performance Modern Track Spot.
- 4 wattage / output settings per track head.
- High efficiency exceeding 140Lm/W utilising the latest reflector materials.
- High Colour Rendering : CRI>90.
- Design elements for excellent heat management and performance.
- 3 Phase track connection allowing flexibility in switching desired circuit.

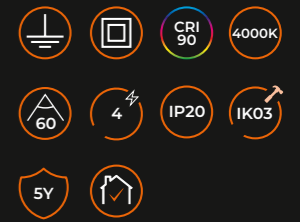
Product Code	Description	Wattage	Lumens	Lm/W	Colour
S-JX1-15/40/B	Jaxor 15W Track Spot	10W / 12W / 14W / 15W	1,450 / 1,700 / 1,950 / 2,000	140	Black
S-JX1-15/40/W	Jaxor 15W Track Spot	10W / 12W / 14W / 15W	1,450 / 1,700 / 1,950 / 2,000	140	White
S-JX1-25/40/B	Jaxor 25W Track Spot	18W / 20W / 22W / 25W	3,000 / 3,250 / 3,580 / 3,700	160	Black
S-JX1-25/40/W	Jaxor 25W Track Spot	18W / 20W / 22W / 25W	3,000 / 3,250 / 3,580 / 3,700	160	White
S-JX1-30/40/B	Jaxor 30W Track Spot	25W / 28W / 30W / 32W	4,300 / 4,500 / 4,600 / 4,800	150	Black
S-JX1-32/40/W	Jaxor 32W Track Spot	25W / 28W / 30W / 32W	4,300 / 4,500 / 4,600 / 4,800	150	White
S-JX1-35/40/B	Jaxor 35W Track Spot	32W / 34W / 36W / 38W	5,700 / 6,000 / 6,100 / 6,250	170	Black
S-JX1-38/40/W	Jaxor 38W Track Spot	32W / 34W / 36W / 38W	5,700 / 6,000 / 6,100 / 6,250	170	White



15W
A: 65mm
B: 147mm

25/30/32W
A: 83mm
B: 174mm

35/38W
A: 92mm
B: 200mm



S-JX1-15/40/B - Front



S-JX1-15/40/B - Back

Jaxor

Accessories



Accessories - Track

- Modern sleek design
- 3 Phase track allowing flexibility in switching circuit groups
- Live End / End Cap not supplied

Product Code	Description	Colour
S-JX-R3P/1MTR/B	Jaxor 3 Phase Track 1M Recessed	Black
S-JX-R3P/1MTR/W	Jaxor 3 Phase Track 1M Recessed	Black
S-JX-R3P/2MTR/B	Jaxor 3 Phase Track 2M Recessed	White
S-JX-R3P/2MTR/W	Jaxor 3 Phase Track 2M Recessed	White
S-JX-S3P/1MTR/B	Jaxor 3 Phase Track 1M Surface	Black
S-JX-S3P/1MTR/W	Jaxor 3 Phase Track 1M Surface	Black
S-JX-S3P/2MTR/B	Jaxor 3 Phase Track 2M Surface	White
S-JX-S3P/2MTR/W	Jaxor 3 Phase Track 2M Surface	White

Accessories

- Modern design sleek design.
- Live End and End Cap not supplied.

Product Code	Description	Colour
S-JX-R3P/MK	Jaxor 3 Phase Acc Track Recessed Mounting Kit	-
S-JX-S3P/ALC/L/B	Jaxor 3 Phase Acc Adj L Connector	Black
S-JX-S3P/ALC/L/W	Jaxor 3 Phase Acc Adj L Connector	White
S-JX-S3P/EC/B	Jaxor 3 Phase Acc End Cap	Black
S-JX-S3P/EC/W	Jaxor 3 Phase Acc End Cap	White
S-JX-S3P/FC/B	Jaxor 3 Phase Acc Flush Connector	Black
S-JX-S3P/FC/W	Jaxor 3 Phase Acc Flush Connector	White
S-JX-S3P/FXC/B	Jaxor 3 Phase Acc Flexible Connector	Black
S-JX-S3P/FXC/W	Jaxor 3 Phase Acc Flexible Connector	White
S-JX-S3P/LC/B	Jaxor 3 Phase Acc L Connector	Black
S-JX-S3P/LC/W	Jaxor 3 Phase Acc L Connector	White
S-JX-S3P/LE/L/B	Jaxor 3 Phase Acc Live End Left	Black
S-JX-S3P/LE/L/W	Jaxor 3 Phase Acc Live End Left	White
S-JX-S3P/LE/R/B	Jaxor 3 Phase Acc Live End Right	Black
S-JX-S3P/LE/R/W	Jaxor 3 Phase Acc Live End Right	White
S-JX-S3P/SC/B	Jaxor 3 Phase Acc Straight Connector	Black
S-JX-S3P/SC/W	Jaxor 3 Phase Acc Straight Connector	White
S-JX-S3P/SK/B	Jaxor 3 Phase Acc Track 1.5M Suspension Kit	Black
S-JX-S3P/SK/W	Jaxor 3 Phase Acc Track 1.5M Suspension Kit	White
S-JX-S3P/SKC/B	Jaxor 3 Phase Acc Track Suspension Kit Coupler	Black
S-JX-S3P/SKC/W	Jaxor 3 Phase Acc Track Suspension Kit Coupler	White
S-JX-S3P/TBMK/B	Jaxor 3 Phase Acc Track T-Bar Mounting Kit	Black
S-JX-S3P/TBMK/W	Jaxor 3 Phase Acc Track T-Bar Mounting Kit	White
S-JX-S3P/TC/L/B	Jaxor 3 Phase Acc T Connector Left	Black
S-JX-S3P/TC/L/W	Jaxor 3 Phase Acc T Connector Left	White
S-JX-S3P/TC/R/B	Jaxor 3 Phase Acc T Connector Right	Black
S-JX-S3P/TC/R/W	Jaxor 3 Phase Acc T Connector Right	White
S-JX-S3P/XC/R/B	Jaxor 3 Phase Acc X Connector	Black
S-JX-S3P/XC/R/W	Jaxor 3 Phase Acc X Connector	White



S-JX-S3P/TC/L/B



S-JX-S3P/ALC/L/W

LXLine



2M IP67 / IP20	5M IP67 / IP20	10M IP67 / IP20	50M IP67 / IP20
A: 12 / 10mm	A: 12 / 10mm	A: 12 / 10mm	A: 12 / 10mm
B: 4.5 / 2.3mm	B: 4.5 / 2.3mm	B: 4.5 / 2.3mm	B: 4.5 / 2.3mm

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- IP67
- IP67

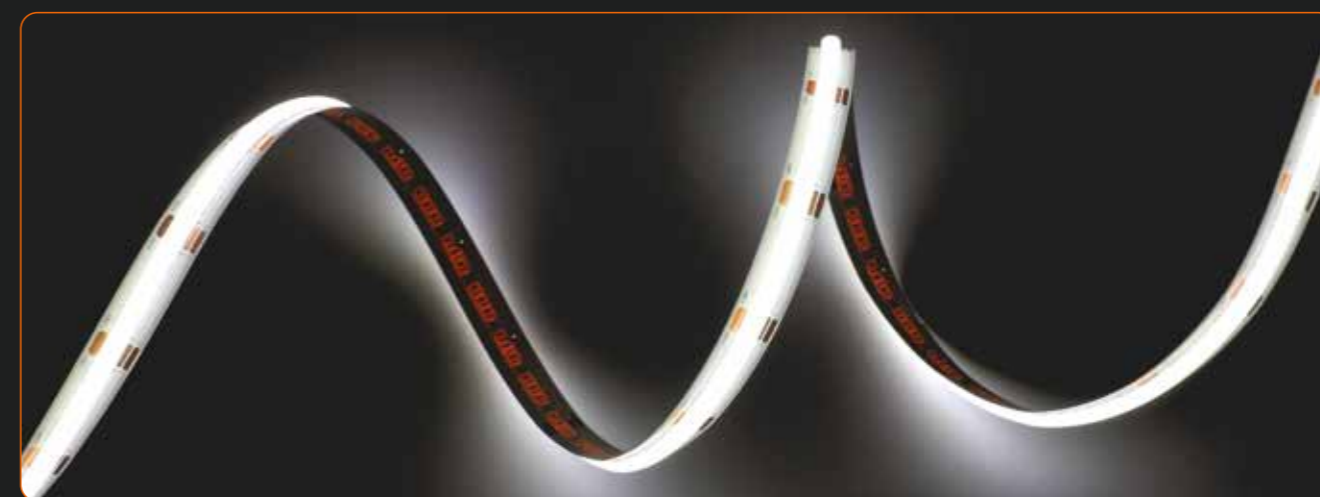


LXLine LED Strip - Tunable white

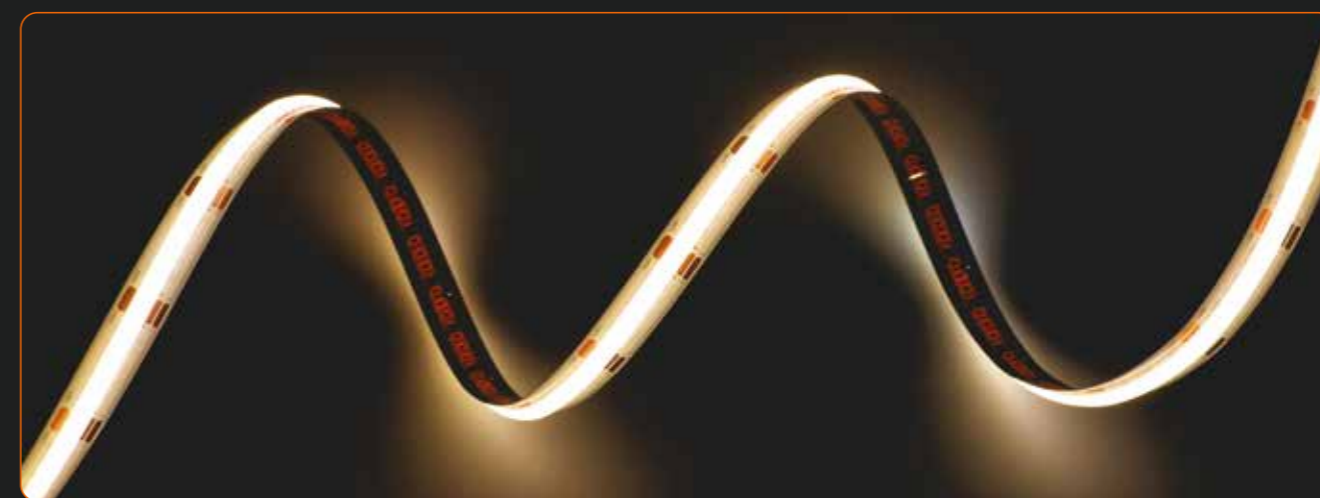
Product Features - Tunable White COB LED Strip

- Suitable for residential, hospitality and retail applications.
- Flexible and infinitely versatile LED strip with self-adhesive back.
- Uniform and continuous light source for a seamless look and output.
- Tunable white from 2,700K - 6,500K for all output options and circadian rhythm requirements.
- High CRI 90 and efficiency ensures the highest quality performance and light quality.
- Fast fit connectors and accessories available.
- For compatible drivers, see page 54.

Product Code	Description	Wattage	IP Rating
S-LX-C10/2/TW/I	LXLine COB 24V 10W 2M Tunable White IP20	10W/M	IP20
S-LX-C10/5/TW/I	LXLine COB 24V 10W 5M Tunable White IP20	10W/M	IP20
S-LX-C10/10/TW/I	LXLine COB 24V 10W 10M Tunable White IP20	10W/M	IP20
S-LX-C10/50/TW/I	LXLine COB 24V 10W 50M Tunable White IP20	10W/M	IP20
S-LX-C10/2/TW/E	LXLine COB 24V 10W 2M Tunable White IP67	10W/M	IP67
S-LX-C10/5/TW/E	LXLine COB 24V 10W 5M Tunable White IP67	15W/M	IP67
S-LX-C10/10/TW/E	LXLine COB 24V 10W 10M Tunable White IP67	10W/M	IP67
S-LX-C10/50/TW/E	LXLine COB 24V 10W 50M Tunable White IP67	10W/M	IP67



LXLine - Tunable White



LXLine - Tunable White

LXLine



LXLine - RGB COB LED Strip



LXLine - RGB COB LED Strip

LXLine LED Strip - RGB

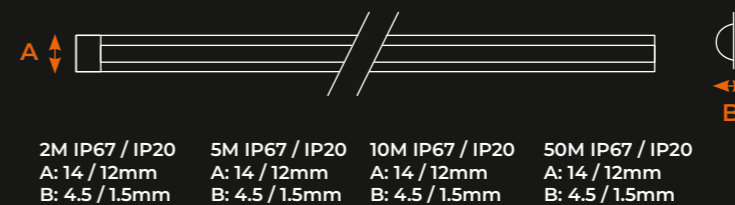
Product Features - RGB COB LED Strip

- Suitable for residential, hospitality and retail applications.
- Flexible and infinitely versatile LED strip with self-adhesive back.
- Uniform and continuous light source for a seamless look and output.
- RGB output.
- Fast fit connectors and accessories available.
- For compatible drivers, see page 54.

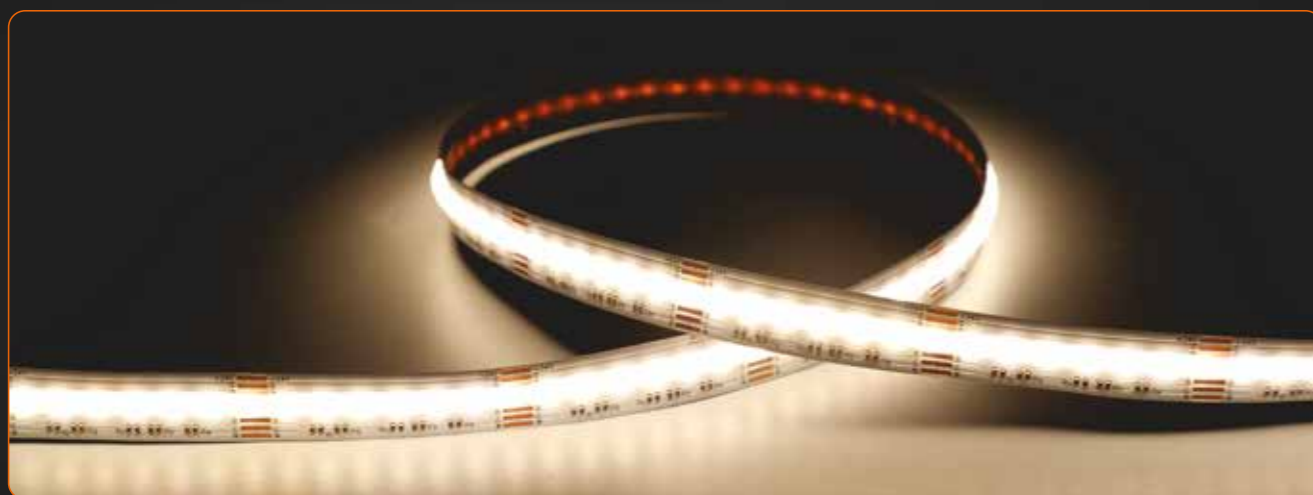
Product Code	Description	Wattage	IP Rating
S-LX-C15/2/RGB/I	LXLine COB 24V 15W 2M RGB IP20	15W/M	IP20
S-LX-C15/5/RGB/I	LXLine COB 24V 15W 5M RGB IP20	15W/M	IP20
S-LX-C15/10/RGB/I	LXLine COB 24V 15W 10M RGB IP20	15W/M	IP20
S-LX-C15/50/RGB/I	LXLine COB 24V 15W 50M RGB IP20	15W/M	IP20
S-LX-C15/2/RGB/E	LXLine COB 24V 15W 2M RGB IP67	15W/M	IP67
S-LX-C15/5/RGB/E	LXLine COB 24V 15W 5M RGB IP67	15W/M	IP67
S-LX-C15/10/RGB/E	LXLine COB 24V 15W 10M RGB IP67	15W/M	IP67
S-LX-C15/50/RGB/E	LXLine COB 24V 15W 50M RGB IP67	15W/M	IP67



LXLine



- III
- CRI 90
- 150
- CTS3
- IP20
- IP67
- 5Y
- 1
- 2
- IP67
- IP67



LXLine - RGB + Tunable White COB LED Strip



RGB + Tunable White COB LED Strip

LXLine LED Strip - RGB Tunable White

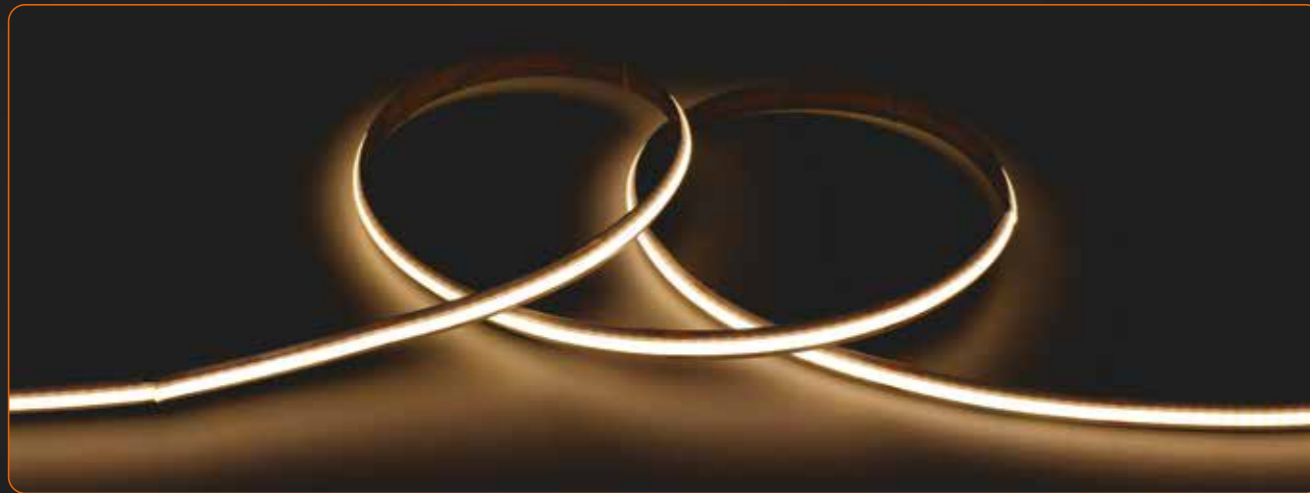
Product Features - RGB + Tunable White COB LED Strip

- Suitable for residential, hospitality and retail applications.
- Flexible and infinitely versatile LED strip with self-adhesive back.
- Uniform and continuous light source for a seamless look and output.
- Tunable white from 2,700K - 6,500K + RGB for all output options and circadian rhythm requirements.
- High CRI 90 and efficiency ensures the highest quality performance and light quality.
- Fast fit connectors and accessories available.
- For compatible drivers, see page 54.

Product Code	Description	Wattage	IP Rating
S-LX-C16/2/RGBTW/I	LXLine COB 24V 16W 2M RGBTW IP20	16W/M	IP20
S-LX-C16/5/RGBTW/I	LXLine COB 24V 16W 5M RGBTW IP20	16W/M	IP20
S-LX-C16/10/RGBTW/I	LXLine COB 24V 16W 10M RGBTW IP20	16W/M	IP20
S-LX-C16/50/RGBTW/I	LXLine COB 24V 16W 50M RGBTW IP20	16W/M	IP20
S-LX-C16/2/RGBTW/E	LXLine COB 24V 16W 2M RGBTW IP67	16W/M	IP67
S-LX-C16/5/RGBTW/E	LXLine COB 24V 16W 5M RGBTW IP67	16W/M	IP67
S-LX-C16/10/RGBTW/E	LXLine COB 24V 16W 10M RGBTW IP67	16W/M	IP67
S-LX-C16/50/RGBTW/E	LXLine COB 24V 16W 50M RGBTW IP67	16W/M	IP67



LXLine



LXLine

LED Strip - Single CCT 4W/M

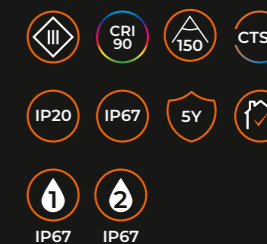
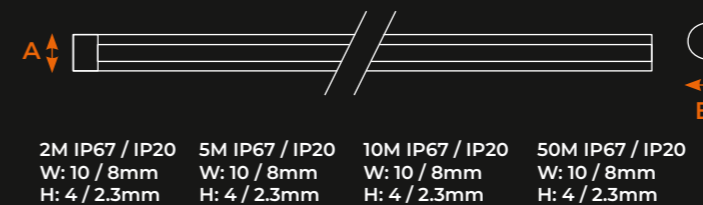
Product Features - Single White COB LED Strip 4W

- Suitable for residential, hospitality and retail applications.
- Flexible and infinitely versatile LED strip with self-adhesive back.
- Uniform and continuous light source for a seamless look and output.
- Single white options from 2,700K, 3,000K, 4,000K and 6,500K for all output options and circadian rhythm requirements.
- High CRI 90 and efficiency ensures the highest quality performance and light quality.
- Fast fit connectors and accessories available.
- For compatible drivers, see page 54.

Product Code	Description	Wattage	IP Rating
S-LX-C4/2/27/I	LXLine COB 24V 4W 2M 2700K IP20	4W/M	IP20
S-LX-C4/2/30/I	LXLine COB 24V 4W 2M 3000K IP20	4W/M	IP20
S-LX-C4/2/40/I	LXLine COB 24V 4W 2M 4000K IP20	4W/M	IP20
S-LX-C4/2/65/I	LXLine COB 24V 4W 2M 6500K IP20	4W/M	IP20
S-LX-C4/5/27/I	LXLine COB 24V 4W 5M 2700K IP20	4W/M	IP20
S-LX-C4/5/30/I	LXLine COB 24V 4W 5M 3000K IP20	4W/M	IP20
S-LX-C4/5/40/I	LXLine COB 24V 4W 5M 4000K IP20	4W/M	IP20
S-LX-C4/5/65/I	LXLine COB 24V 4W 5M 6500K IP20	4W/M	IP20

Product Code	Description	Wattage	IP Rating
S-LX-C4/10/27/I	LXLine COB 24V 4W 10M 2700K IP20	4W/M	IP20
S-LX-C4/10/30/I	LXLine COB 24V 4W 10M 3000K IP20	4W/M	IP20
S-LX-C4/10/40/I	LXLine COB 24V 4W 10M 4000K IP20	4W/M	IP20
S-LX-C4/10/65/I	LXLine COB 24V 4W 10M 6500K IP20	4W/M	IP20
S-LX-C4/50/27/I	LXLine COB 24V 4W 50M 2700K IP20	4W/M	IP20
S-LX-C4/50/30/I	LXLine COB 24V 4W 50M 3000K IP20	4W/M	IP20
S-LX-C4/50/40/I	LXLine COB 24V 4W 50M 4000K IP20	4W/M	IP20
S-LX-C4/50/65/I	LXLine COB 24V 4W 50M 6500K IP20	4W/M	IP20
S-LX-C4/2/27/E	LXLine COB 24V 4W 2M 2700K IP67	4W/M	IP67
S-LX-C4/2/30/E	LXLine COB 24V 4W 2M 3000K IP67	4W/M	IP67
S-LX-C4/2/40/E	LXLine COB 24V 4W 2M 4000K IP67	4W/M	IP67
S-LX-C4/2/65/E	LXLine COB 24V 4W 2M 6500K IP67	4W/M	IP67
S-LX-C4/5/27/E	LXLine COB 24V 4W 5M 2700K IP67	4W/M	IP67
S-LX-C4/5/30/E	LXLine COB 24V 4W 5M 3000K IP67	4W/M	IP67
S-LX-C4/5/40/E	LXLine COB 24V 4W 5M 4000K IP67	4W/M	IP67
S-LX-C4/5/65/E	LXLine COB 24V 4W 5M 6500K IP67	4W/M	IP67
S-LX-C4/10/27/E	LXLine COB 24V 4W 10M 2700K IP67	4W/M	IP67
S-LX-C4/10/30/E	LXLine COB 24V 4W 10M 3000K IP67	4W/M	IP67
S-LX-C4/10/40/E	LXLine COB 24V 4W 10M 4000K IP67	4W/M	IP67
S-LX-C4/10/65/E	LXLine COB 24V 4W 10M 6500K IP67	4W/M	IP67
S-LX-C4/50/27/E	LXLine COB 24V 4W 50M 2700K IP67	4W/M	IP67
S-LX-C4/50/30/E	LXLine COB 24V 4W 50M 3000K IP67	4W/M	IP67
S-LX-C4/50/40/E	LXLine COB 24V 4W 50M 4000K IP67	4W/M	IP67
S-LX-C4/50/65/E	LXLine COB 24V 4W 50M 6500K IP67	4W/M	IP67

LXLine



LXLine

LED Strip - Single CCT 8W/M

Product Features - Single White COB LED Strip 8W

- Suitable for residential, hospitality and retail applications.
- Flexible and infinitely versatile LED strip with self-adhesive back.
- Uniform and continuous light source for a seamless look and output.
- Single white options from 2,700K, 3,000K, 4,000K and 6,500K for all output options and circadian rhythm requirements.
- High CRI 90 and efficiency ensures the highest quality performance and light quality.
- Fast fit connectors and accessories available.
- For compatible drivers, see page 54.

Product Code	Description	Wattage	IP Rating
S-LX-C8/2/27/I	LXLine COB 24V 8W 2M 2700K IP20	8W/M	IP20
S-LX-C8/2/30/I	LXLine COB 24V 8W 2M 3000K IP20	8W/M	IP20
S-LX-C8/2/40/I	LXLine COB 24V 8W 2M 4000K IP20	8W/M	IP20
S-LX-C8/2/65/I	LXLine COB 24V 8W 2M 6500K IP20	8W/M	IP20
S-LX-C8/5/27/I	LXLine COB 24V 8W 5M 2700K IP20	8W/M	IP20
S-LX-C8/5/30/I	LXLine COB 24V 8W 5M 3000K IP20	8W/M	IP20
S-LX-C8/5/40/I	LXLine COB 24V 8W 5M 4000K IP20	8W/M	IP20
S-LX-C8/5/65/I	LXLine COB 24V 8W 5M 6500K IP20	8W/M	IP20























Product Code	Description	Wattage	IP Rating
S-LX-C8/10/27/I	LXLine COB 24V 8W 10M 2700K IP20	8W/M	IP20
S-LX-C8/10/30/I	LXLine COB 24V 8W 10M 3000K IP20	8W/M	IP20
S-LX-C8/10/40/I	LXLine COB 24V 8W 10M 4000K IP20	8W/M	IP20
S-LX-C8/10/65/I	LXLine COB 24V 8W 10M 6500K IP20	8W/M	IP20
S-LX-C8/50/27/I	LXLine COB 24V 8W 50M 2700K IP20	8W/M	IP20
S-LX-C8/50/30/I	LXLine COB 24V 8W 50M 3000K IP20	8W/M	IP20
S-LX-C8/50/40/I	LXLine COB 24V 8W 50M 4000K IP20	8W/M	IP20
S-LX-C8/50/65/I	LXLine COB 24V 8W 50M 6500K IP20	8W/M	IP20
S-LX-C8/2/27/E	LXLine COB 24V 8W 2M 2700K IP67	8W/M	IP67
S-LX-C8/2/30/E	LXLine COB 24V 8W 2M 3000K IP67	8W/M	IP67
S-LX-C8/2/40/E	LXLine COB 24V 8W 2M 4000K IP67	8W/M	IP67
S-LX-C8/2/65/E	LXLine COB 24V 8W 2M 6500K IP67	8W/M	IP67
S-LX-C8/5/27/E	LXLine COB 24V 8W 5M 2700K IP67	8W/M	IP67
S-LX-C8/5/30/E	LXLine COB 24V 8W 5M 3000K IP67	8W/M	IP67
S-LX-C8/5/40/E	LXLine COB 24V 8W 5M 4000K IP67	8W/M	IP67
S-LX-C8/5/65/E	LXLine COB 24V 8W 5M 6500K IP67	8W/M	IP67
S-LX-C8/10/27/E	LXLine COB 24V 8W 10M 2700K IP67	8W/M	IP67
S-LX-C8/10/30/E	LXLine COB 24V 8W 10M 3000K IP67	8W/M	IP67
S-LX-C8/10/40/E	LXLine COB 24V 8W 10M 4000K IP67	8W/M	IP67
S-LX-C8/10/65/E	LXLine COB 24V 8W 10M 6500K IP67	8W/M	IP67
S-LX-C8/50/27/E	LXLine COB 24V 8W 50M 2700K IP67	8W/M	IP67
S-LX-C8/50/30/E	LXLine COB 24V 8W 50M 3000K IP67	8W/M	IP67
S-LX-C8/50/40/E	LXLine COB 24V 8W 50M 4000K IP67	8W/M	IP67
S-LX-C8/50/65/E	LXLine COB 24V 8W 50M 6500K IP67	8W/M	IP67

LXLine

LXLine - LED Strip Connectors and Leads

■ For compatible drivers, see page 54.

* Supplied c/w IP67 sealing kit










Product Code	Description		Product Code	Description	
S-LX-C/8/ML/I	LXLine COB Acc. 8mm Single CCT Mains Lead IP20		S-LX-CTW/10/TL/I	LXLine COB Acc. 10mm Tunable White T / L Connector IP20	
S-LX-C/8/SC/I	LXLine COB Acc. 8mm Single CCT Straight Connector IP20		S-LX-CTW/12/ML/E	LXLine COB Acc. 12mm Tunable White Mains Lead IP67*	
S-LX-C/8/CL/I	LXLine COB Acc. 8mm Single CCT Connector Lead IP20		S-LX-CTW/12/SC/E	LXLine COB Acc. 12mm Tunable White Straight Connector IP67*	
S-LX-C/8/TL/I	LXLine COB Acc. 8mm Single CCT T / L Connector IP20		S-LX-CTW/12/CL/E	LXLine COB Acc. 12mm Tunable White Connector Lead IP67*	
S-LX-C/10/ML/E	LXLine COB Acc. 10mm Single CCT Mains Lead IP67*		S-LX-CTW/12/TL/E	LXLine COB Acc. 12mm Tunable White T / L Connector IP67*	
S-LX-C/10/SC/E	LXLine COB Acc. 10mm Single CCT Straight Connector IP67*		S-LX-RGB/10/ML/I	LXLine COB Acc. 10mm RGB Mains Lead IP20	
S-LX-C/10/CL/E	LXLine COB Acc. 10mm Single CCT Connector Lead IP67*		S-LX-RGB/10/SC/I	LXLine COB Acc. 10mm RGB Straight Connector IP20	
S-LX-C/10/TL/E	LXLine COB Acc. 10mm Single CCT T / L Connector IP67*		S-LX-RGB/10/CL/I	LXLine COB Acc. 10mm RGB Connector Lead IP20	
S-LX-CTW/10/ML/I	LXLine COB Acc. 10mm Tunable White Mains Lead IP20		S-LX-RGB/10/TL/I	LXLine COB Acc. 10mm RGB T / L Connector IP20	
S-LX-CTW/10/SC/I	LXLine COB Acc. 10mm Tunable White Straight Connector IP20		S-LX-RGB/12/ML/E	LXLine COB Acc. 12mm RGB Mains Lead IP67*	
S-LX-CTW/10/CL/I	LXLine COB Acc. 10mm Tunable White Connector Lead IP20		S-LX-RGB/12/SC/E	LXLine COB Acc. 12mm RGB Straight Connector IP67*	

LXLine

LXLine - LED Strip Connectors and Leads

* Supplied c/w IP67 sealing kit

■ For compatible drivers, see page 54.

Product Code	Description	
S-LX-RGB/12/CL/E	LXLine COB Acc. 12mm RGB Connector Lead IP67*	
S-LX-RGB/12/TL/E	LXLine COB Acc. 12mm RGB T / L Connector IP67*	
S-LX-RGBTW/12/ML/I	LXLine COB Acc. 12mm RGBTW Mains Lead IP20	
S-LX-RGBTW/12/SC/I	LXLine COB Acc. 12mm RGBTW Straight Connector IP20	
S-LX-RGBTW/12/CL/I	LXLine COB Acc. 12mm RGBTW Connector Lead IP20	
S-LX-RGBTW/14/ML/E	LXLine COB Acc. 14mm RGBTW Mains Lead IP67*	
S-LX-RGBTW/14/SC/E	LXLine COB Acc. 14mm RGBTW Straight Connector IP67*	
S-LX-RGBTW/14/CL/E	LXLine COB Acc. 14mm RGBTW Connector Lead IP67*	
S-LX-RGBTW/14/TL/E	LXLine COB Acc. 14mm RGBTW T / L Connector IP67*	



S-LX-RGBTW/12/SC/I



S-LX-RGBTW/14/SC/E










S-LX-RGBTW/14/TL/E

LXLine

LXLine - Controllers and RF Remotes




For operation with RF Tunable White COB controller

- For compatible drivers, see page 54.

Product Code	Description	
S-LX-15A/1CH/C	LXLine COB Acc. 15A 1 Channel Dim RF Controller IP20	
S-LX-DIM/1/R	LXLine COB Acc. Dim 1 Zone RF Remote	
S-LX-2X8A/2CH/C	LXLine COB Acc. 2x8A 2 Channel Tunable White RF Controller IP20	
S-LX-TW/1/R	LXLine COB Acc. Tunable White 1 Zone RF Remote	
S-LX-TW/4/R	LXLine COB Acc. Tunable White 4 Zone RF Remote	
S-LX-4X5A/4CH/C	LXLine COB Acc. 4x5A 4 Channel RGB RF Controller IP20	
S-LX-RGB/1/R	LXLine COB Acc. RGB 1 Zone RF Remote	
S-LX-RGB/4/R	LXLine COB Acc. RGB 4 Zone RF Remote	

Accessories - Recessed Profile

- Recessed Aluminium profile.
- Kit comes complete with profile, diffuser, mounting clips and end caps.
- Suitable for interior and exterior use.

























Product Code	Description	
S-LX-5X5A/5CH/C	LXLine COB Acc. 5x5A 5 Channel RGBTW RF Controller IP20	
S-LX-RGBTW/1/R	LXLine COB Acc. RGBTW 1 Zone RF Remote	
S-LX-RGBTW/4/R	LXLine COB Acc. RGBTW 4 Zone RF Remote	



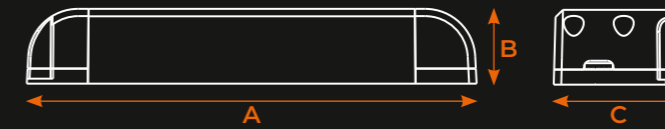
LXLine

LXLine - Aluminium Profiles

- Surface Aluminium profile.
- Kit contains profile, diffuser, end cap and installation clips
- Suitable for interior and exterior use.
- For compatible drivers, see page 54.

Product Code	Description	Colour		Product Code	Description	Colour	
S-LX-RP1M/B	LXLine COB Acc. Profile 1M Recessed 23mm	Black		S-LX-SP1/2M/SI	LXLine COB Acc. Profile 1 Surface 2M 17x8mm	Silver	
S-LX-RP1M/SI	LXLine COB Acc. Profile 1M Recessed 23mm	Silver		S-LX-SP1/2M/W	LXLine COB Acc. Profile 1 Surface 2M 17x8mm	White	
S-LX-RP1M/W	LXLine COB Acc. Profile 1M Recessed 23mm	White		S-LX-SP2/1M/B	LXLine COB Acc. Profile 2 Surface 1M 18x9mm	Black	
S-LX-RP2M/B	LXLine COB Acc. Profile 2M Recessed 23mm	Black		S-LX-SP2/1M/SI	LXLine COB Acc. Profile 2 Surface 1M 18x9mm	Silver	
S-LX-RP2M/SI	LXLine COB Acc. Profile 2M Recessed 23mm	Silver		S-LX-SP2/1M/W	LXLine COB Acc. Profile 2 Surface 1M 18x9mm	White	
S-LX-RP2M/W	LXLine COB Acc. Profile 2M Recessed 23mm	White		S-LX-SP2/2M/B	LXLine COB Acc. Profile 2 Surface 2M 18x9mm	Black	
S-LX-SP1/1M/B	LXLine COB Acc. Profile 1 Surface 1M 17x8mm	Black		S-LX-SP2/2M/SI	LXLine COB Acc. Profile 2 Surface 2M 18x9mm	Silver	
S-LX-SP1/1M/SI	LXLine COB Acc. Profile 1 Surface 1M 17x8mm	Silver		S-LX-SP2/2M/W	LXLine COB Acc. Profile 2 Surface 2M 18x9mm	White	
S-LX-SP1/1M/W	LXLine COB Acc. Profile 1 Surface 1M 17x8mm	White		S-LX-SP3/1M/B	LXLine COB Acc. Profile 3 Surface 1M 18x13mm	Black	
S-LX-SP1/2M/B	LXLine COB Acc. Profile 1 Surface 2M 17x8mm	Black		S-LX-SP3/1M/SI	LXLine COB Acc. Profile 3 Surface 1M 18x13mm	Silver	
				S-LX-SP3/1M/W	LXLine COB Acc. Profile 3 Surface 1M 18x13mm	White	
				S-LX-SP3/2M/B	LXLine COB Acc. Profile 3 Surface 2M 18x13mm	Black	
				S-LX-SP3/2M/SI	LXLine COB Acc. Profile 3 Surface 2M 18x13mm	Silver	
				S-LX-SP3/2M/W	LXLine COB Acc. Profile 3 Surface 2M 18x13mm	White	

Driver



15/180W	20/45W	30W	60W	75/90/120W
A: 300mm	A: 123mm	A: 345mm	A: 153mm	A: 180mm
B: 30mm	B: 19mm	B: 35mm	B: 32mm	B: 30mm
C: 40mm	C: 45mm	C: 50mm	C: 41.4mm	C: 52mm



Driver Indoor Drivers

Product Features

- 24V Independent converter providing constant voltage output.
- Protection against open circuit, short circuit, overload and over temperature.
- Class II protection.
- Flicker free operation.
- SELV output.

S-DR-15/24V/I



S-DR-75/24V/I



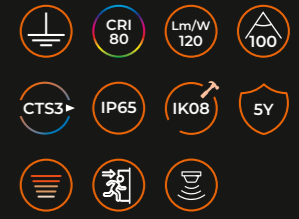
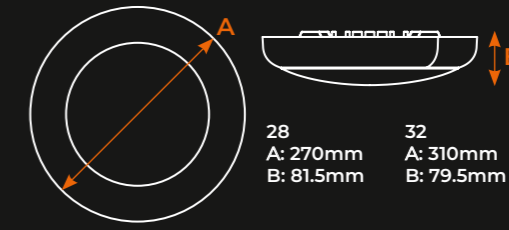
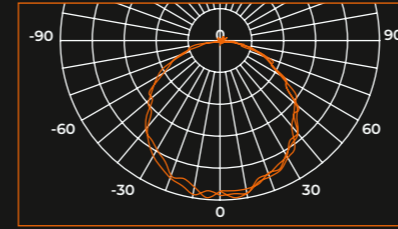
Product Code	Description	Wattage
S-DR-15/24V/I	Driver 15W 24V IP20	15W
S-DR-20/24V/I	Driver 20W 24V IP20	20W
S-DR-30/24V/I	Driver 30W 24V IP20	30W
S-DR-45/24V/I	Driver 45W 24V IP20	45W
S-DR-60/24V/I	Driver 60W 24V IP20	60W
S-DR-75/24V/I	Driver 75W 24V IP20	75W
S-DR-90/24V/I	Driver 90W 24V IP20	90W
S-DR-120/24V/I	Driver 120W 24V IP20	120W
S-DR-180/24V/I	Driver 180W 24V IP20	180W



Outdoor

Bulkhead	Paxx	58 - 59
	Fanir Rd	60 - 61
Wall Light	Lex 1	62 - 63
	Lex 2	64 - 65
	Nox	66 - 67
Wall Pack	Arka	68 - 69
	Falkor	70 - 71
	Prowler	72 - 73
Bollard	Virga	74 - 75

Paxx



Compatible Modules

- S-MPC1-EM3 Module EM Pack 1 Acc Emergency Module - Compact
- S-MPC1-MS Module MS 1 Acc MWS Module - Compact



S-PXX-28/CTS/W - Back



S-PXX-28/CTS/W - Side

Paxx
Bulkhead

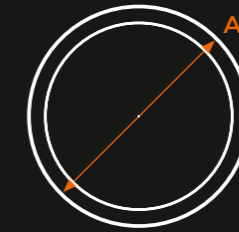
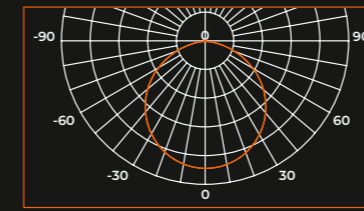
Product Features

- Slim and modern IP65 Bulkhead.
- Design elements to facilitate ultra-fast installation with modular attachments for Microwave conversions.
- PC diffuser engineered by designed to achieved IP65, IK08.
- Multi CCT Selectable from 3,000K, 4,000K, 5,000K and 6,500K.
- Multi output / power options with 3 options.
- Toolless replaceable modular design.

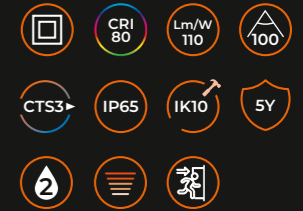
Product Code	Description	Wattage	Lumens	Lm/W
S-PXX-28/CTS/W	Paxx Bulkhead 28 CTS IP65 - White	8W / 10W / 12W	1,000 / 1,200 / 1,450	120
S-PXX-28/CTS/EM3/W	Paxx Bulkhead 28 CTS EM3 IP65 - White	8W / 10W / 12W	1,000 / 1,200 / 1,450	120
S-PXX-32/CTS/W	Paxx Bulkhead 32 CTS IP65 - White	12W / 16W / 20W	1,680 / 1,920 / 2,400	120
S-PXX-32/CTS/EM3/W	Paxx Bulkhead 32 CTS EM3 IP65 - White	12W / 16W / 20W	1,680 / 1,920 / 2,400	120



Fanir Rd



12/18/25W
A: 275mm
B: 60mm



Fanir Rd Bulkhead

Product Features

- Modern polycarbonate multi purpose circular bulkhead.
- IK10 impact rated and IP65 protection for all environments.
- Multi CCT Selectable from 3,000K, 4,000K and 6,500K.
- Multi output / power selectable.
- Emergency options available.

Product Code	Description	Wattage	Lumens	Lm/W	Colour
S-FN-12/RD/CTS/B	Fanir Circular 275mm 12W Bulkhead CTS IP65	12W	1,400	110	Black
S-FN-12/RD/CTS/W	Fanir Circular 275mm 12W Bulkhead CTS IP65	12W	1,400	110	White
S-FN-12/RD/CTS/EM3/B	Fanir Circular 275mm 12W Emergency Bulkhead CTS IP65	12W	1,400	110	Black
S-FN-12/RD/CTS/EM3/W	Fanir Circular 275mm 12W Emergency Bulkhead CTS IP65	12W	1,400	110	White
S-FN-18/RD/CTS/B	Fanir Circular 275mm 18W Bulkhead CTS IP65	18W	1,950	110	Black
S-FN-18/RD/CTS/W	Fanir Circular 275mm 18W Bulkhead CTS IP65	18W	1,950	110	White
S-FN-18/RD/CTS/EM3/B	Fanir Circular 275mm 18W Emergency Bulkhead CTS IP65	18W	1,950	110	Black
S-FN-18/RD/CTS/EM3/W	Fanir Circular 275mm 18W Emergency Bulkhead CTS IP65	18W	1,950	110	White
S-FN-25/RD/CTS/B	Fanir Circular 275mm 25W Bulkhead CTS IP65	25W	2,550	110	Black
S-FN-25/RD/CTS/W	Fanir Circular 275mm 25W Bulkhead CTS IP65	25W	2,550	110	White

Accessories

Product Code	Description	Colour
S-FN-25/RD/EL/B	Fanir Circular 275mm Eyelid Accessory	Black
S-FN-25/RD/EL/W	Fanir Circular 275mm Eyelid Accessory	White

S-FN-12/RD/CTS/W - Back

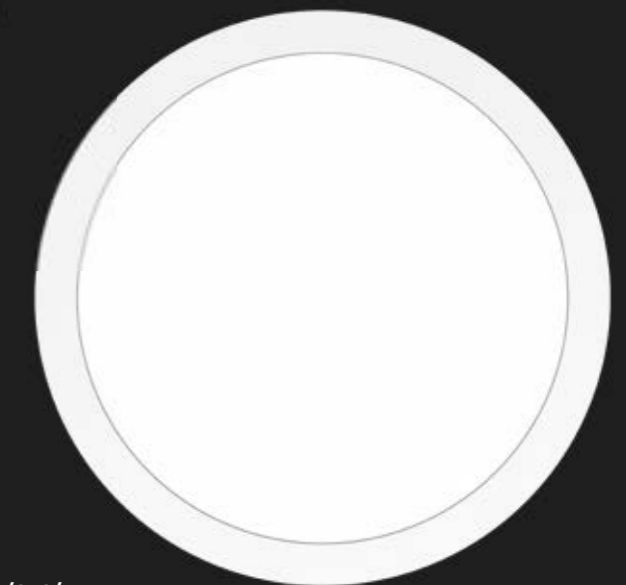


S-FN-12/RD/CTS/B +
S-FN-25/RD/EL/B

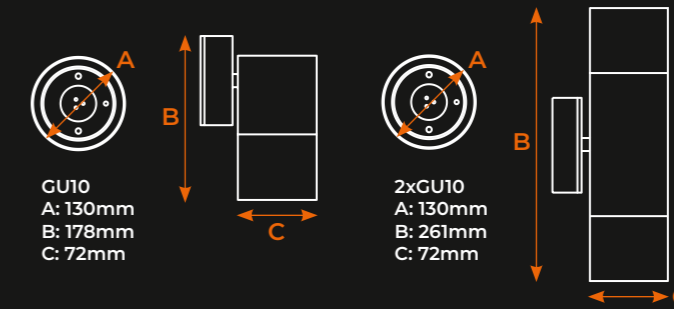


S-FN-18/RD/CTS/W +
S-FN-25/RD/EL/W

S-FN-12/RD/CTS/W - Front



Lex 1



Lex 1 Wall Light

Product Features

- Sleek decorative and robust exterior wall light.
- Weather resistant anodized paint finish.
- Aluminium reflector for enhanced performance.
- GU10 lamp(s) not supplied.



S-LX1-GU10/GR

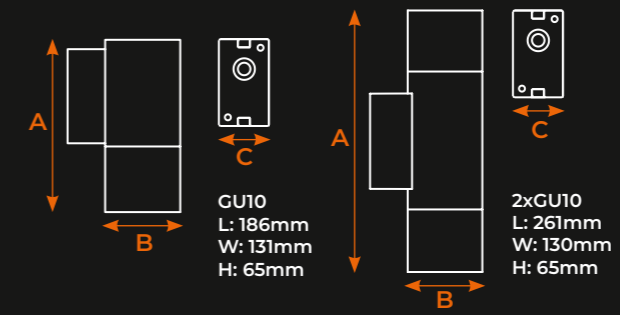


S-LX1-2XGU10/W

Product Code	Description	Colour
S-LX1-2XGU10/B	Lex 1 Wall Light 2xGU10 Up&Down IP65	Black
S-LX1-2XGU10/GR	Lex 1 Wall Light 2xGU10 Up&Down IP65	Grey
S-LX1-2XGU10/W	Lex 1 Wall Light 2xGU10 Up&Down IP65	White
S-LX1-GU10/B	Lex 1 Wall Light GU10 Down IP65	Black
S-LX1-GU10/GR	Lex 1 Wall Light GU10 Down IP65	Grey
S-LX1-GU10/W	Lex 1 Wall Light GU10 Down IP65	White



Lex 2



S-LX2-GU10/W

Lex 2 Wall Light

Product Features

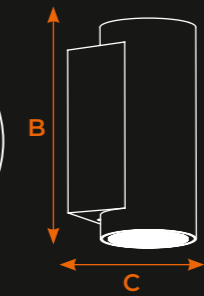
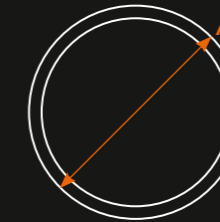
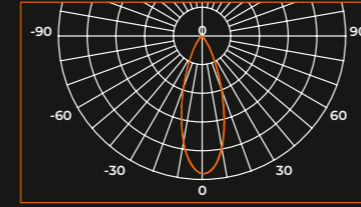
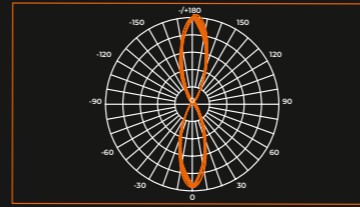
- Sleek decorative and robust exterior wall light.
- Weather resistant anodized paint finish.
- Aluminium reflector for enhanced performance.
- GU10 lamp(s) not supplied.



S-LX2-GU10/B

Product Code	Description	Colour
S-LX2-2XGU10/B	Lex 2 Wall Light 2xGU10 Up&Down IP65	Black
S-LX2-2XGU10/GR	Lex 2 Wall Light 2xGU10 Up&Down IP65	Grey
S-LX2-2XGU10/W	Lex 2 Wall Light 2xGU10 Up&Down IP65	White
S-LX2-GU10/B	Lex 2 Wall Light GU10 Down IP65	Black
S-LX2-GU10/GR	Lex 2 Wall Light GU10 Down IP65	Grey
S-LX2-GU10/W	Lex 2 Wall Light GU10 Down IP65	White

Nox

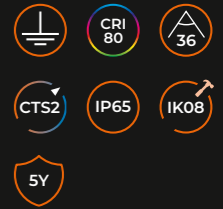


10W
A: 80mm
B: 160mm
C: 96mm

2x 9W
A: 80mm
B: 181mm
C: 96mm

2x 4W
A: 60mm
B: 141mm
C: 75mm

5W CTS
A: 60mm
B: 124mm
C: 75mm



Nox
Wall Light

Product Features

- Robust exterior die-cast aluminium wall light.
- Multi CCT Selectable from 3,000K and 4,000K.
- Weather resistant anodized paint finish.
- Aluminium optical reflector for enhanced performance and distribution.



S-NX-WL/2X4/CTS/W



S-NX-WL/2X9/CTS/B



S-NX-WL/10/CTS/W



S-NX-WL/10/CTS/GR

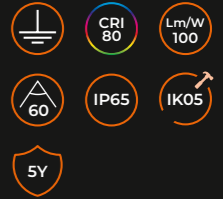
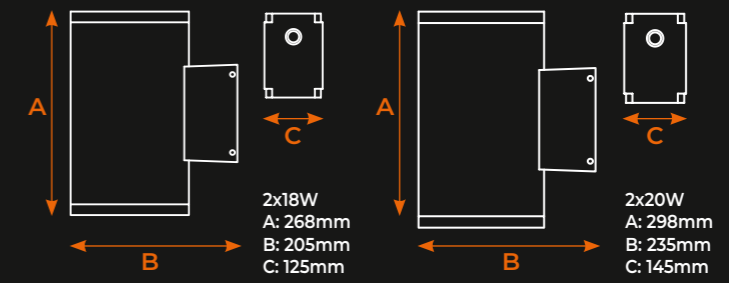
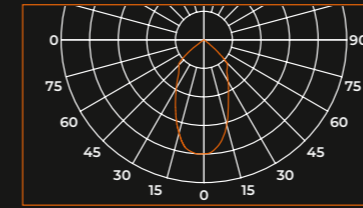
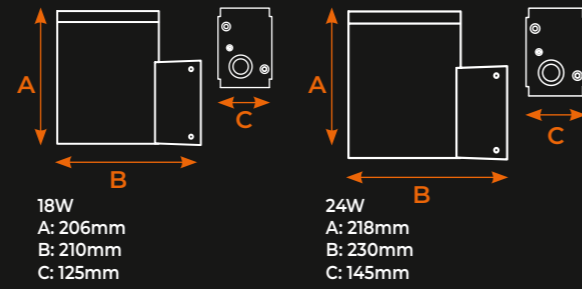


S-NX-WL/10/CTS/B

Product Code	Description	Wattage	Lumens	Lm/W	Colour
S-NX-WL/10/CTS/B	Nox Wall Light 10W Down IP65	10W	1,050	105	Black
S-NX-WL/10/CTS/GR	Nox Wall Light 10W Down IP65	10W	1,050	105	Grey
S-NX-WL/10/CTS/W	Nox Wall Light 10W Down IP65	10W	1,140	114	White
S-NX-WL/2X4/CTS/B	Nox Wall Light 2X4W Up&Down IP65	2X10W	2,200	110	Black
S-NX-WL/2X4/CTS/GR	Nox Wall Light 2X4W Up&Down IP65	2X10W	2,200	110	Grey
S-NX-WL/2X4/CTS/W	Nox Wall Light 2X4W Up&Down IP65	2X10W	2,390	120	White
S-NX-WL/5/CTS/B	Nox Wall Light 5W Down CTS IP65	5W	490	96	Black
S-NX-WL/5/CTS/GR	Nox Wall Light 5W Down CTS IP65	5W	490	96	Grey
S-NX-WL/5/CTS/W	Nox Wall Light 5W Down CTS IP65	5W	530	105	White
S-NX-WL/2X9/CTS/B	Nox Wall Light 2X9W Up&Down IP65	2X5W	1,130	115	Black
S-NX-WL/2X9/CTS/GR	Nox Wall Light 2X9W Up&Down IP65	2X5W	1,130	115	Grey
S-NX-WL/2X9/CTS/W	Nox Wall Light 2X9W Up&Down IP65	2X5W	1,230	125	White



Arka



Arka Wall Light

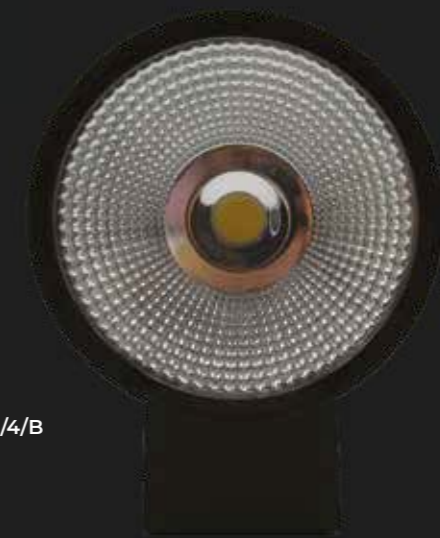
Product Features

- Sleek decorative and robust exterior wall light.
- Weather resistant anodized paint finish.
- Aluminium reflector for enhanced performance.
- GU10 lamp(s) not supplied.

Product Code	Description	Colour
S-AK-WL/18/4/B	Arka Wall Light 18W Down IP65 - Black	Black
S-AK-WL/24/4/B	Arka Wall Light 24W Down IP65 - Black	Black
S-AK-WL/2X18/4/B	Arka Wall Light 2X18W Up&Down IP65 - Black	Black
S-AK-WL/2X20/4/B	Arka Wall Light 2X20W Up&Down IP65 - Black	Black



S-AK-WL/18/4/B



S-AK-WL/18/4/B

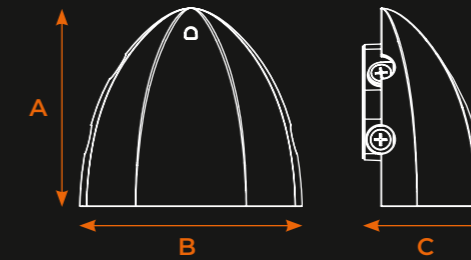
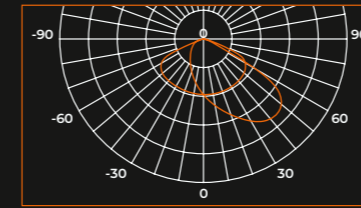
Falkor



Falkor Wall Pack

Product Features

- Slim, elegant and compact low glare wall pack.
- Die-Cast Aluminium for high performance thermals operation.
- Full cut-off asymmetric optic lens for 0% uplight.
- High efficiency 135lm/W, CRI ≥ 80.
- Photocell and Emergency options available.



A: 212mm
B: 238mm
C: 138.5mm

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-
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-
-
-



S-FL-14/WP/40/B - Back

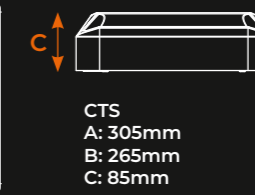
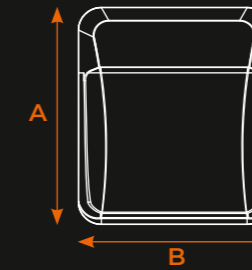
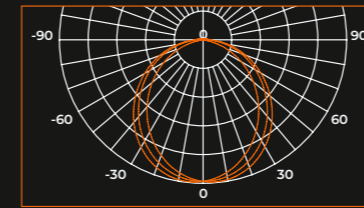


FS-FL-14/WP/40/B - Side

Product Code	Description	Wattage	Lumens	Lm/W
S-FL-14/WP/40/B	Falkor Wallpack 14W 4000K IP66 - Grey	14W	1,890	135
S-FL-14/WP/40/EM3/B	Falkor Wallpack 14W 4000K Emergency IP66 - Grey	14W	1,890	135
S-FL-14/WP/40/EM3/PC/B	Falkor Wallpack 14W 4000K Emergency Photocell IP66 - Grey	14W	1,890	135
S-FL-14/WP/40/PC/B	Falkor Wallpack 14W 4000K Photocell IP66 - Grey	14W	1,890	135
S-FL-25/WP/40/B	Falkor Wallpack 25W 4000K IP66 - Grey	25W	3,375	135
S-FL-25/WP/40/EM3/B	Falkor Wallpack 25W 4000K Emergency IP66 - Grey	25W	3,375	135
S-FL-25/WP/40/EM3/PC/B	Falkor Wallpack 25W 4000K Emergency Photocell IP66 - Grey	25W	3,375	135
S-FL-25/WP/40/PC/B	Falkor Wallpack 25W 4000K Photocell IP66 - Grey	25W	3,375	135
S-FL-40/WP/40/B	Falkor Wallpack 40W 4000K IP66 - Grey	40W	5,400	135
S-FL-40/WP/40/EM3/B	Falkor Wallpack 40W 4000K Emergency IP66 - Grey	40W	5,400	135
S-FL-40/WP/40/EM3/PC/B	Falkor Wallpack 40W 4000K Emergency Photocell IP66 - Grey	40W	5,400	135
S-FL-40/WP/40/PC/B	Falkor Wallpack 40W 4000K Photocell IP66 - Grey	40W	5,400	135



Prowler



CTS
A: 305mm
B: 265mm
C: 85mm



S-PRI-WP/CTS/B - Back



S-PRI-WP/CTS/B - Side

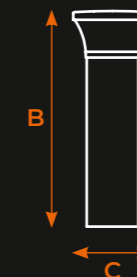
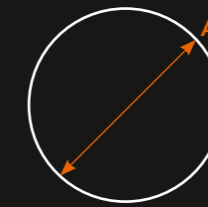
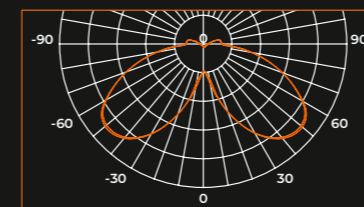
Prowler Wall Pack

Product Features

- High efficiency IP65 wallpack.
- Luminaire efficiency exceeding 125Lm/W.
- Ultra durable and robust construction.
- Multi CCT Selectable from 3,000K, 4,000K, 5,000K and 6,000K.
- Multi output / power options with 4 options.

Product Code	Description	Wattage	Lumens	Lm/W
S-PRI-WP/CTS/B	Prowler Wallpack CTS IP65 - Black	14W/17W/21W/25W	1,680 / 2,040 / 2,520 / 3,050	125
S-PRI-WP/CTS/EM3/B	Prowler Wallpack CTS Emergency IP65 - Black	14W/17W/21W/25W	1,680 / 2,040 / 2,520 / 3,050	125
S-PRI-WP/CTS/EM3/PC/B	Prowler Wallpack CTS Emergency Photocell IP65 - Blk	14W/17W/21W/25W	1,680 / 2,040 / 2,520 / 3,050	125
S-PRI-WP/CTS/PC/B	Prowler Wallpack CTS Photocell IP65 - Black	14W/17W/21W/25W	1,680 / 2,040 / 2,520 / 3,050	125

Virga



1000
A: 203mm
B: 975mm
C: 133mm

500
A: 203mm
B: 475mm
C: 133mm

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Virga Bollard

Product Features

- Modern commercial grade aluminium alloy bollard.
- High efficiency 100lm/W, CRI ≥ 70.
- Power / output selectable and CCT adjustable.
- OT diffuser for visual-comfort and distribution.
- C3 class corrosion resistant to withstand arduous environments.
- Suitable for all commercial with ratings of IK10 / IP66.

Accessories

Product Code	Description
S-VR-B/HRMK	Virga Bollard Heavy Root Mounting Kit



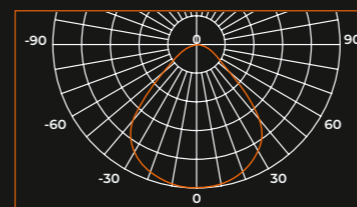
Product Code	Description	Wattage	Lumens	Lm/W
S-VR-B/25/100/CTS	Virga Bollard 1000mm 25W CTS - IP66	7.5W / 12.5W / 18.75W / 25W	2,500 / 3,250	100
S-VR-B/25/50/CTS	Virga Bollard 500mm 25W CTS - IP66	7.5W / 12.5W / 18.75W / 25W	2,500 / 3,250	100



Commercial

Panel	HaloGrid	78 - 79
Commercial Circular	Aura	80 - 81
Commercial Linear	Luxora	82 - 83
	RadiForm	84 - 85
	ILineBar	86 - 89

HaloGrid



600	1200
A: 595mm	A: 595mm
B: 595mm	B: 1195mm
C: 31mm	C: 31mm

- CRI 80
- Lm/W 130
- 90
- UGR<19
- CTS3
- 4
- IP44
- IK02
- 5Y
- Home
- Menu
- Recycle



S-HG-120/CTS/W - Back



S-HG-120/CTS/W - Side



HaloGrid Panel

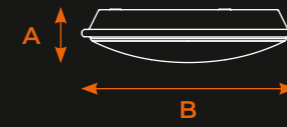
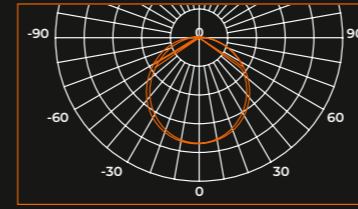
Product Features

- High performance IP44 Back-lit LED panel.
- Excellent light uniformity diffuser with colour shift resistant PMMA TPa materials.
- Multi CCT Selectable from 3,000K, 4,000K and 6,500K.
- Multi output / power selection with 3 options per size.
- Non-flicker operation.
- Dimmable and Emergency options available upon request.

Product Code	Description	Wattage	Lumens	Lm/W
S-HG-60/CTS/W	HaloGrid 600x600 UGR BackLit Panel CTS IP44 - White	15W / 25W / 32W	3,640 / 4,940 / 6,240	130
S-HG-120/CTS/W	HaloGrid 1200x600 UGR BackLit Panel CTS IP44 - White	28W / 38W / 48W	2,000 / 3,300 / 4,200	130



Aura

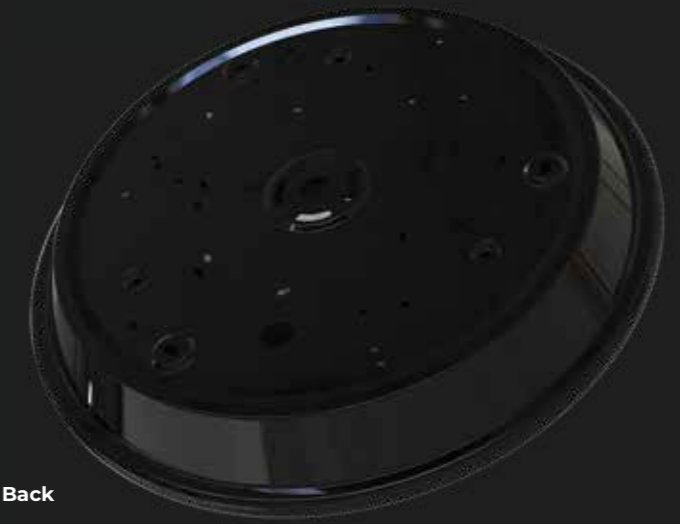


CTS
A: 107
B: 430

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S-AU-430/CTS/B - Side



S-AU-430/CTS/B - Back

Aura Commercial Circular

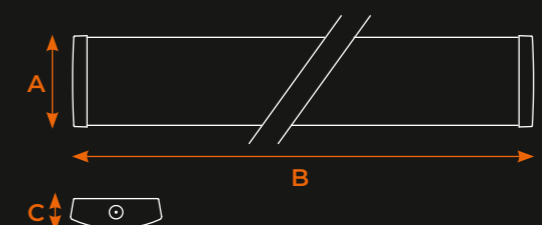
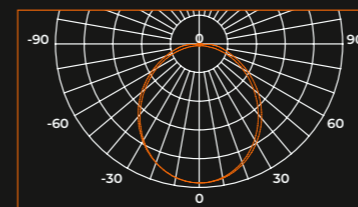
Product Features

- High efficiency wall / ceiling fixture.
- Spun aluminium base with dished opal diffuser.
- Power / output selectable and CCT adjustable.
- BESA box fixing on base for versatile mounting options.
- Dimmable and Emergency options available.

Product Code	Description	Wattage	Lumens	Lm/W
S-AU-430/CTS/B	Aura Wall / Ceiling CTS IP20 - Black	16W/20W/24W/28W	1,920 / 2,400 / 2,880 / 3,350	120
S-AU-430/CTS/W	Aura Wall / Ceiling CTS IP20 - White	16W/20W/24W/28W	1,920 / 2,400 / 2,880 / 3,350	120
S-AU-430/CTS/EM3/B	Aura Wall / Ceiling CTS Emergency IP20 - Black	16W/20W/24W/28W	1,920 / 2,400 / 2,880 / 3,350	120
S-AU-430/CTS/EM3/W	Aura Wall / Ceiling CTS Emergency IP20 - White	16W/20W/24W/28W	1,920 / 2,400 / 2,880 / 3,350	120
S-AU-430/CTS/MS/B	Aura Wall / Ceiling CTS MWS IP20 - Black	16W/20W/24W/28W	1,920 / 2,400 / 2,880 / 3,350	120
S-AU-430/CTS/MS/W	Aura Wall / Ceiling CTS MWS IP20 - White	16W/20W/24W/28W	1,920 / 2,400 / 2,880 / 3,350	120
S-AU-430/CTS/EM3/MS/B	Aura Wall / Ceiling CTS Emergency MWS IP20 - Black	16W/20W/24W/28W	1,920 / 2,400 / 2,880 / 3,350	120
S-AU-430/CTS/EM3/MS/W	Aura Wall / Ceiling CTS Emergency MWS IP20 - White	16W/20W/24W/28W	1,920 / 2,400 / 2,880 / 3,350	120



Luxora



4ft
A: 148mm
B: 1200mm
C: 50mm

5ft
A: 148mm
B: 1500mm
C: 50mm

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S-LX-4/CTS/W - Side



S-LX-4/CTS/W - Top

Luxora Commercial Linear

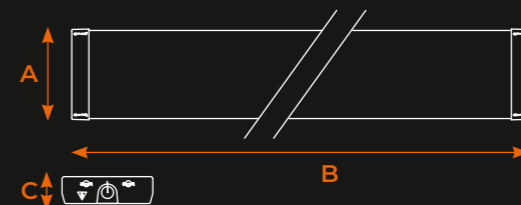
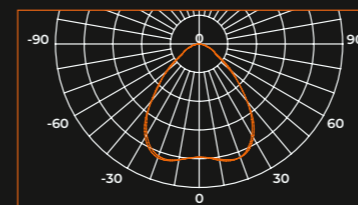
Product Features

- Modern sleek high efficiency commercial linear.
- Fully enclosed surface luminaire with curved low profile appearance.
- High efficient system exceeding 130Lm/W.
- Multi CCT Selectable from 3,000K, 4,000K and 6,000K.
- 4 wattage / output settings.
- Dimmable and Emergency options available.

Product Code	Description	Wattage	Lumens	Lm/W
S-LX-4/CTS/W	Luxora Linear 4ft CTS IP44 - White	20W/24W/35W/40W	2,550 / 3,080 / 4,500 / 4,900	130
S-LX-4/CTS/W/EM3	Luxora Linear 4ft CTS EM3 IP44 - White	20W/24W/35W/40W	2,550 / 3,080 / 4,500 / 4,900	130
S-LX-5/CTS/W	Luxora Linear 5ft CTS IP44 - White	40W/45W/50W/55W	5,230 / 5,800 / 6,500 / 7,000	130
S-LX-5/CTS/W/EM3	Luxora Linear 5ft CTS EM3 IP44 - White	40W/45W/50W/55W	5,230 / 5,800 / 6,500 / 7,000	130



RadiForm



4ft
A: 165mm
B: 1200mm
C: 50mm

5ft
A: 165mm
B: 1500mm
C: 50mm

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Compatible Modules

Product Code	Description
S-MPL2-EM3	Module EM Pack 3 Acc Emergency Module - Linear
S-MPL2-MS	Module MS 2 Acc MWS Module - Linear



RadiForm Commercial Linear

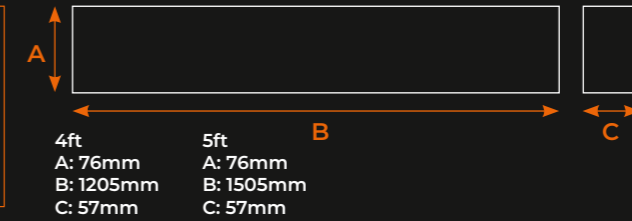
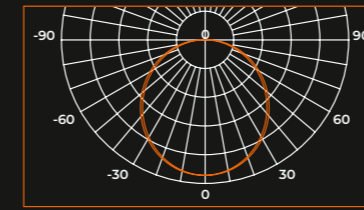
Product Features

- Contemporary UGR<19 commercial linear.
- High Efficiency exceeding 120Lm/W.
- Design elements to facilitate ultra-fast installation with modular attachments for Microwave and Emergency conversions.
- Multi CCT Selectable from 3,000K, 4,000K, 5,000K and 6,500K.
- Multi output / power options with 4 options.
- Dimmable and Emergency options available.

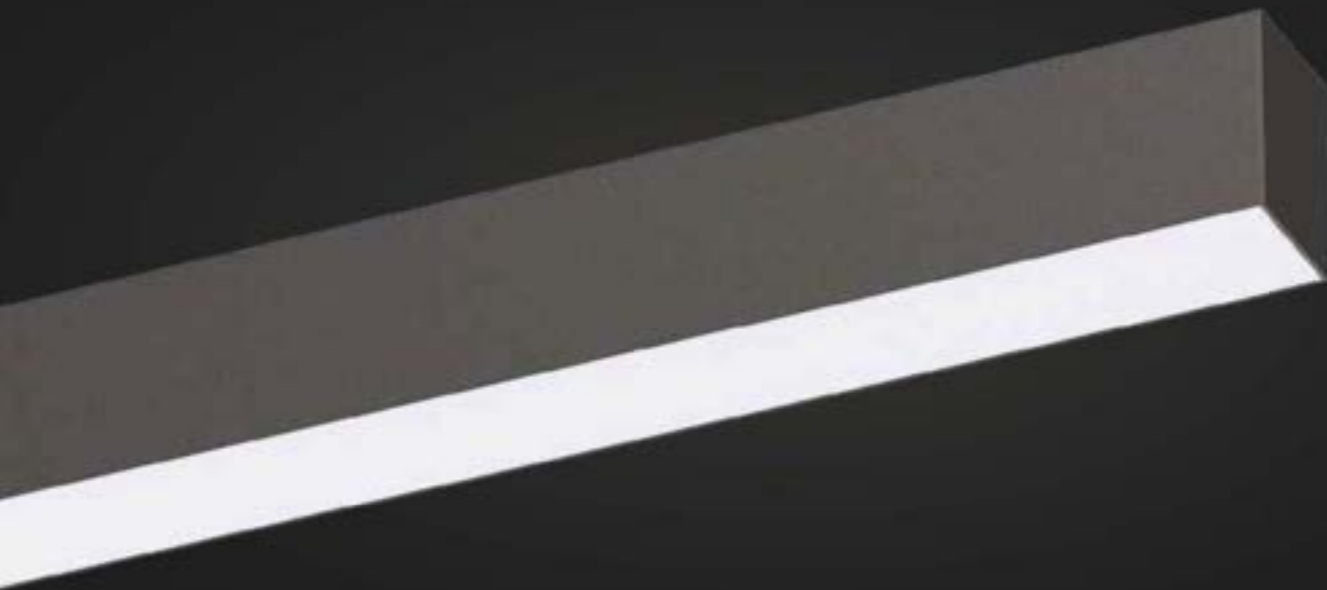
Product Code	Description	Wattage	Lumens	Lm/W
S-RF-4/CTS/W	RadiForm Linear UGR CTS 4ft IP44 - White	24W/29W/33W/38W	2,700 / 3,300 / 3,800 / 4,400	120
S-RF-5/CTS/W	RadiForm Linear UGR CTS 5ft IP44 - White	24W/29W/33W/38W	2,700 / 3,300 / 3,800 / 4,400	120



ILineBar



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Compatible Modules

Product Code	Description
S-MPL3-EM3	Module EM Pack 3 Acc Emergency Module - Linear



S-IB-4/CTS/W

ILineBar Linear

Product Features

- Aluminium commercial linear light bar boasting an efficiency exceeding 120Lm/W.
- Singular or continuous operation with multiple installation options.
- Power / output selectable and CCT adjustable.
- UGR<19, illuminated corners & upward illumination options all available.
- UGR<19 version available upon request.
- Dimmable and Emergency options available upon request

Product Code	Description	Wattage	Lumens	Lm/W	Colour
S-IB-4/CTS/B	ILineBar Linear 4ft CTS IP20	16W/22W/25W/32W	2,250 / 3,100 / 3,550 / 4,250	140	Black
S-IB-4/CTS/GR	ILineBar Linear 4ft CTS IP20	16W/22W/25W/32W	2,250 / 3,100 / 3,550 / 4,250	140	Grey
S-IB-4/CTS/W	ILineBar Linear 4ft CTS IP20	16W/22W/25W/32W	2,300 / 3,250 / 3,700 / 4,600	150	White
S-IB-5/CTS/B	ILineBar Linear 5ft CTS IP20	19W/28W/32W/38W	2,570 / 3,850 / 4,350 / 5,000	140	Black
S-IB-5/CTS/GR	ILineBar Linear 5ft CTS IP20	19W/28W/32W/38W	2,570 / 3,850 / 4,350 / 5,000	140	Grey
S-IB-5/CTS/W	ILineBar Linear 5ft CTS IP20	19W/28W/32W/38W	2,680 / 4,000 / 4,450 / 5,300	150	White



ILineBar

Accessories

Product Code	Description	Colour
S-IB-C	ILineBar Acc Surface Coupler	-
S-IB-LC/B	ILineBar Acc L Connector	Black
S-IB-LC/GR	ILineBar Acc L Connector	Grey
S-IB-LC/W	ILineBar Acc L Connector	White
S-IB-SC	ILineBar Acc Suspension Coupler	-
S-IB-SK	ILineBar Acc Suspension Kit	-
S-IB-TC/B	ILineBar Acc T Connector	Black
S-IB-TC/GR	ILineBar Acc T Connector	Grey
S-IB-TC/W	ILineBar Acc T Connector	White
S-IB-XC/B	ILineBar Acc X Connector	Black
S-IB-XC/GR	ILineBar Acc X Connector	Grey
S-IB-XC/W	ILineBar Acc X Connector	White
S-IB-YC/B	ILineBar Acc Y Connector	Black
S-IB-YC/GR	ILineBar Acc Y Connector	Grey
S-IB-YC/W	ILineBar Acc Y Connector	White
S-IB-4/CTS/UL	ILineBar Acc 4ft CTS Uplight	-
S-IB-5/CTS/UL	ILineBar Acc 5ft CTS Uplight	-



S-IB-120C/W



S-IB-LC/GR



S-IB-TC/B



S-IB-YC/W



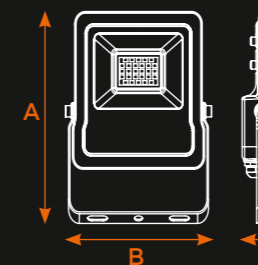
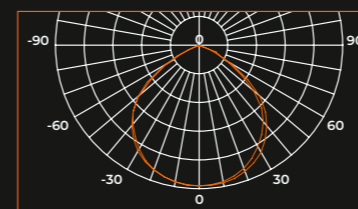


Floodlighting

Floodlight

Punta	92 - 93
Sable	94 - 95
Neddik	96 - 97

Punta



10W	20W	30W	50W
A: 128mm	A: 160mm	A: 155mm	A: 189mm
B: 104mm	B: 104mm	B: 125mm	B: 125mm
C: 27mm	C: 53mm	C: 28mm	C: 53mm

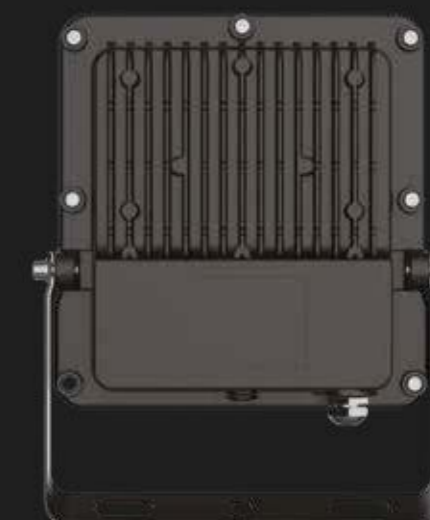
10W PIR	20W PIR	30W PIR	50W PIR
A: 213mm	A: 255mm	A: 241mm	A: 287mm
B: 168mm	B: 168mm	B: 200mm	B: 200mm
C: 30mm	C: 53mm	C: 36mm	C: 65mm



S-PU-10/40/PIR/B



S-PU-30/40/B



S-PU-30/40/B - Back

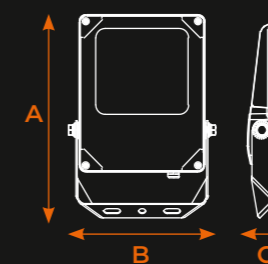
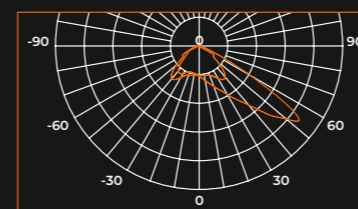
Punta Floodlight

Product Features

- Compact die-cast Aluminium Floodlight.
- High efficacy system of 100Lm/w.
- Die cast aluminium heatsink ensures cool and reliable performance.
- Aluminium reflector ensures optimal output.
- Supplied c/w angled bracket for quick and easy installation.
- Directional PIR with independent PIR settings for time delay, sensitivity and dusk to dawn operation*.

Product Code	Description	Wattage	Lumens	Lm/W	IP Rating
S-PU-10/40/B	Punta FloodLight 10W 4000K IP65 - Black	10W	1,440	100	IP65
S-PU-10/40/PIR/B	Punta FloodLight 10W 4000K PIR IP54* - Black	10W	1,440	100	IP54
S-PU-20/40/B	Punta FloodLight 20W 4000K IP65 - Black	20W	2,400	100	IP65
S-PU-20/40/PIR/B	Punta FloodLight 20W 4000K PIR IP54* - Black	20W	2,400	100	IP54
S-PU-30/40/B	Punta FloodLight 30W 4000K IP65 - Black	30W	1,000	100	IP65
S-PU-30/40/PIR/B	Punta FloodLight 30W 4000K PIR IP54* - Black	30W	1,000	100	IP54
S-PU-50/40/B	Punta FloodLight 50W 4000K IP65 - Black	50W	2,000	100	IP65
S-PU-50/40/PIR/B	Punta FloodLight 50W 4000K PIR IP54* - Black	50W	2,000	100	IP54

Sable



100W A: 250mm B: 200mm C: 55mm	200W A: 340mm B: 290mm C: 55mm	400W A: 420mm B: 395mm C: 63mm
150W A: 290mm B: 275mm C: 55mm	300W A: 370mm B: 350mm C: 55mm	50W A: 500mm B: 400mm C: 65mm

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Sable Floodlight

Product Features

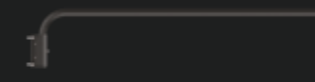
- Robust stylish commercial IP66 Floodlight.
- High Efficiency exceeding 160Lm/W.
- Die-Cast Aluminium for high performance thermals and reliability.
- Asymmetrical distribution preventing unwanted light spillage.
- Multi output / power options with 2 options per size (2 power options for 50W).
- Supplied c/w integral photocell option.

Accessories

Product Code	Description
S-SA-100/CB	Sable Flood Acc 100mm Clamp Bracket 50 - 150W
S-SA-150/CB	Sable Flood Acc 150mm Clamp Bracket 100-400W
S-SA-50/ORA	Sable Flood Acc Outreach Arm (50W)
S-ND/SA-60/PMA	Neddik / Sable Flood Acc 60mm Pole Mounting Adaptor
S-ND/SA-76/PMA	Neddik / Sable Flood Acc 76mm Pole Mounting Adaptor



S-ND/SA-60/PMA



S-SA-50/ORA



S-ND/SA-76/PMA



S-SA-100/CB



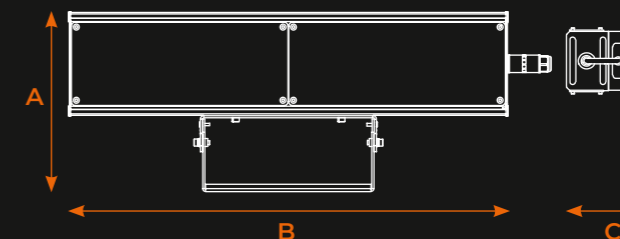
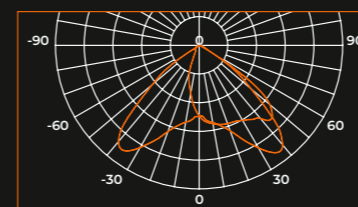
S-SA-200/40/GR - Side



S-SA-200/40/GR - Back

Product Code	Description	Wattage	Lumens	Lm/W	IP Rating
S-SA-50/40/GR	Sable Asy FloodLight 50W 4000K IP66 - Grey	25W / 50W	4,100 / 8,000	160	IP66
S-SA-100/40/GR	Sable Asy FloodLight 100W 4000K IP66 - Grey	50W / 75W / 100W	9,000 / 17,000	160	IP66
S-SA-150/40/GR	Sable Asy FloodLight 150W 4000K IP66 - Grey	75W / 112.5W / 150W	13,500 / 25,000	160	IP66
S-SA-200/40/GR	Sable Asy FloodLight 200W 4000K IP66 - Grey	100W / 150W / 200W	17,900 / 34,000	160	IP66
S-SA-300/40/GR	Sable Asy FloodLight 300W 4000K IP66 - Grey	150W / 225W / 300W	27,450 / 51,000	160	IP66
S-SA-400/40/GR	Sable Asy FloodLight 400W 4000K IP66 - Grey	200W / 300W / 400W	35,000 / 64000	160	IP66





240W
A: 621mm
B: 248mm
C: 127mm

320W
A: 929mm
B: 248mm
C: 127mm

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Accessories

Product Code	Description
S-ND/SA-60/PMA	Neddik / Sable Flood Acc 60mm Pole Mounting Adaptor
S-ND/SA-76/PMA	Neddik / Sable Flood Acc 76mm Pole Mounting Adaptor

S-ND-PF/320/40/B - Front



Neddik
Sports Floodlight

Product Features

High Performance Padel Court Floodlight.
High efficiency 165lm/W, CRI ≥ 80.
C5 class corrosion resistant extruded die-cast aluminium.
Dedicated for Padel courts providing optimal uniformity.
Design specification with a impact and water ingress protection of IK10 / IP66.

Product Code	Description	Wattage	Lumens	Lm/W
S-ND-PF/240/40/B	Neddik Padel Flood 240W 4000K IP66 - Grey	240W	39,600	165
S-ND-PF/320/40/B	Neddik Padel Flood 320W 4000K IP66 - Grey	320W	52,800	165





Industrial

Batten

LineaLux

100 - 101

NCF

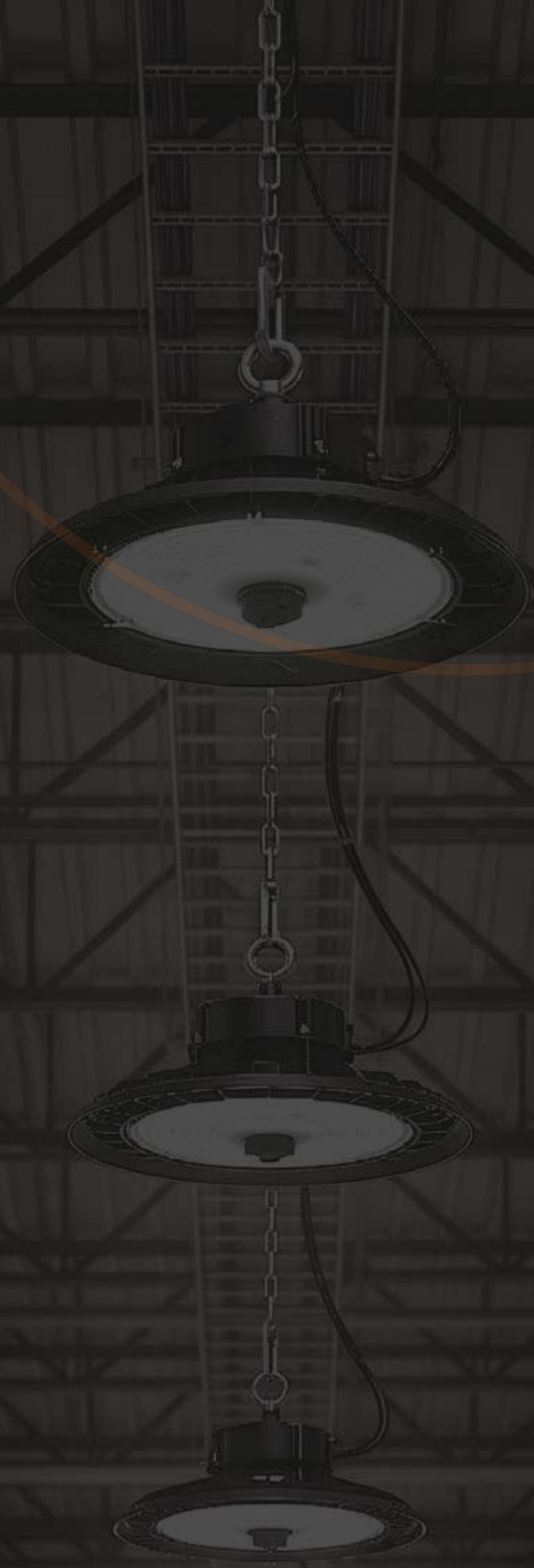
ForgeLight

102 - 103

High Bay

PowerRay

104 - 105



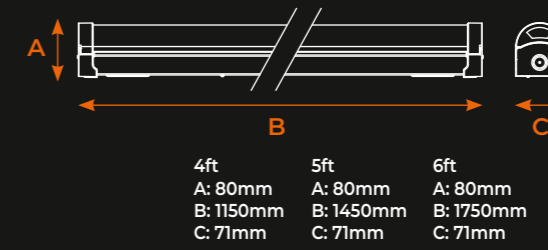
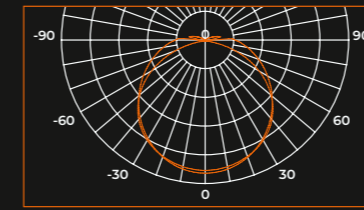
LineaLux



LineaLux Batten

Product Features

- High efficiency linear batten exceeding 140Lm/W.
- Design elements to facilitate ultra-fast installation with modular attachments for Microwave and Emergency conversions.
- Power / output selectable and CCT adjustable.
- Hinged gear tray assembly to allow easy access / installation.
- Dimmable an Emergency options available upon request.



- ⏚
- CRI 80
- Lm/W 140
- 120
- CTS3
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- IP20
- IK08
- 5Y
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Compatible Modules

Product Code	Description
S-MPL1-EM3	Module EM Pack 1 Acc Emergency Module - Linear
S-MPL1-MS	Module MS 1 Acc MWS Module - Linear



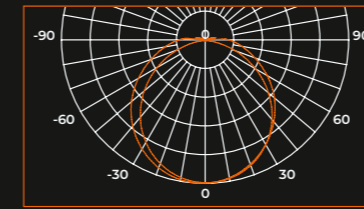
S-LL-4/CTS - Side



Product Code	Description	Wattage	Lumens	Lm/W
S-LL-4/CTS	LineaLux Batten 4ft CTS IP20 - White	19W/38W	2,660 / 5,320	140
S-LL-4/CTS/EM3	LineaLux Batten 4ft CTS Emergency IP20 - White	19W/38W	2,660 / 5,320	140
S-LL-4/CTS/EM3/MS	LineaLux Batten 4ft CTS Emergency MWS IP20 - White	19W/38W	2,660 / 5,320	140
S-LL-4/CTS/MS	LineaLux Batten 4ft CTS MWS IP20 - White	19W/38W	2,660 / 5,320	140
S-LL-5/CTS	LineaLux Batten 5ft CTS IP20 - White	25W/50W	3,500 / 7,000	140
S-LL-5/CTS/EM3	LineaLux Batten 5ft CTS Emergency IP20 - White	25W/50W	3,500 / 7,000	140
S-LL-5/CTS/EM3/MS	LineaLux Batten 5ft CTS Emergency MWS IP20 - White	25W/50W	3,500 / 7,000	140
S-LL-5/CTS/MS	LineaLux Batten 5ft CTS MWS IP20 - White	25W/50W	3,500 / 7,000	140
S-LL-6/CTS	LineaLux Batten 6ft CTS IP20 - White	35W/50W	4,900 / 7,000	140
S-LL-6/CTS/EM3	LineaLux Batten 6ft CTS Emergency IP20 - White	35W/50W	4,900 / 7,000	140
S-LL-6/CTS/EM3/MS	LineaLux Batten 6ft CTS Emergency MWS IP20 - White	35W/50W	4,900 / 7,000	140
S-LL-6/CTS/MS	LineaLux Batten 6ft CTS MWS IP20 - White	35W/50W	4,900 / 7,000	140



ForgeLight



2ft	4ft	5ft	6ft
A: 71mm	A: 71mm	A: 71mm	A: 71mm
B: 550mm	B: 1150mm	B: 1450mm	B: 1750mm
C: 80mm	C: 80mm	C: 80mm	C: 80mm

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ForgeLight NCF

Product Features

- High efficiency 160Lm/W hybrid NCF.
- IK10 impact rated and IP66 protection for all environments.
- Multi CCT Selectable from 3,000K, 4,000K and 6,000K.
- Multi output / power options with 4 options per size.
- Design elements to facilitate ultra-fast installation with modular attachments for Microwave and Emergency conversions.
- Dimmable, Microwave and Emergency options available (emergency not available for S-FL-2/CTS).

Compatible Modules

Product Code	Description
S-MPL1-EM3	Module EM Pack 1 Acc Emergency Module - Linear
S-MPL1-MS	Module MS 1 Acc MWS Module - Linear



S-FL-5/CTS - Side

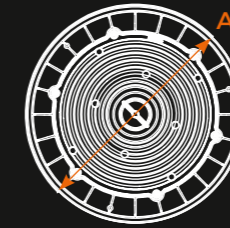
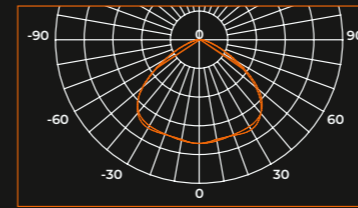


S-FL-5/CTS - Back

Product Code	Description	Wattage	Lumens	Lm/W
S-FL-2/CTS	ForgeLight NCF 2ft CTS IP66 - Grey	12W/15W/17W/20W	1,920 / 2,400 / 2,720 / 3,200	160
S-FL-4/CTS	ForgeLight NCF 4ft CTS IP66 - Grey	21W/26W/32W/36W	3,360 / 4,160 / 5,120 / 5,760	160
S-FL-4/CTS/EM3	ForgeLight NCF 4ft CTS Emergency IP66 - Grey	21W/26W/32W/36W	3,360 / 4,160 / 5,120 / 5,760	160
S-FL-5/CTS	ForgeLight NCF 5ft CTS IP66 - Grey	28W/34W/42W/48W	4,480 / 5,440 / 6,720 / 7,680	160
S-FL-5/CTS/EM3	ForgeLight NCF 5ft CTS Emergency IP66 - Grey	28W/34W/42W/48W	4,480 / 5,440 / 6,720 / 7,680	160
S-FL-6/CTS	ForgeLight NCF 6ft CTS IP66 - Grey	33W/40W/48W/56W	5,280 / 6,400 / 7,680 / 8,960	160
S-FL-6/CTS/EM3	ForgeLight NCF 6ft CTS Emergency IP66 - Grey	33W/40W/48W/56W	5,280 / 6,400 / 7,680 / 8,960	160



PowerRay



60/80/100W
A: 280mm
B: 175mm

90/120/150W
A: 300mm
B: 175mm

120/160/200W
A: 260mm
B: 175mm

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Accessories

Product Code	Description
S-PR-HB/5/EM3	PowerRay High Bay Acc Emergency Pack 5W IP65
S-PR-HB/8/EM3	PowerRay High Bay Acc Emergency Pack 8W IP65
S-PR-ALU/REF	PowerRay High Bay Acc 90°ALU Reflector
S-PR-MS/IP65	PowerRay High Bay Acc Microwave Sensor IP65
S-PR-PIR/IP65	PowerRay High Bay Acc PIR IP65
S-PR-RC	PowerRay High Bay Acc Sensor Remote
S-PR-SBR	PowerRay High Bay Acc Surface Bracket



PowerRay High Bay

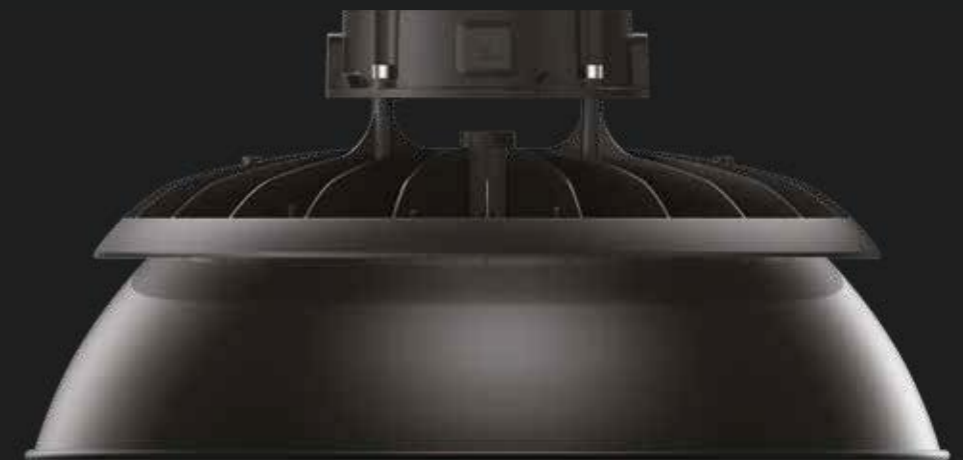
Product Features

- High Performance Die-Cast Aluminium High Bay.
- High Efficiency exceeding 160Lm/W CRI≥80.
- Die-Cast Aluminium structure for high performance thermals and reliability.
- Multi output / power options with 3 options per size.
- Suitable for all environments with ratings of IK08 / IP65.
- Zhaga Book 18 base ready for sensor control integration.
- PowerRay Emergency accessory kits available.

Product Code	Description	Wattage	Lumens	Lm/W
S-PR-100/40/B	PowerRay High Bay 60W/80W/100W 4000K IP65 - Grey	60W / 80W / 100W	60W/80W/100W	160
S-PR-150/40/B	PowerRay High Bay 90W/120W/150W 4000K IP65 - Grey	90W / 120W / 150W	14,400/19,200/24,000	160
S-PR-200/40/B	PowerRay High Bay 120W/160W/200W 4000K IP65 - Grey	120W / 160W / 200W	19,200/25,600/32,000	160



S-PR-HB/5/EM3



S-PR-100/40/B + S-PR-ALU-REF



S-PR-100/40/B + S-PR-SBR



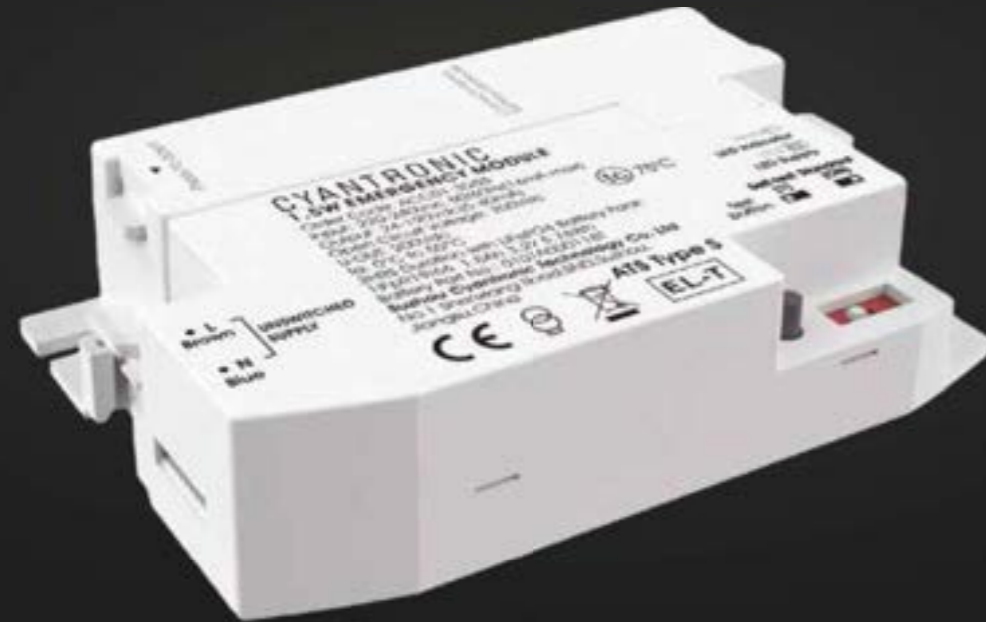
Module

Module

Modular Acc

108 - 109

Module



Module Modular Accessories

Emergency Modules

- 3hr maintained emergency operation.
- Integral LiFePO4 Lithium battery providing energy consumption, product reliability and lifetime.

Product Code	Description
S-MPC1-EM3	Module EM Pack 1 Acc Emergency Module - Compact
S-MPL1-EM3	Module EM Pack 1 Acc Emergency Module - Linear
S-MPL2-EM3	Module EM Pack 2 Acc Emergency Module - Linear
S-MPL3-EM3	Module EM Pack 3 Acc Emergency Module - Linear

Microwave Sensor Module

- Clip in design for fast conversions.

Product Code	Description
S-MPC1-MS	Module MS 1 Acc MWS Module - Compact
S-MPL1-MS	Module MS 1 Acc MWS Module - Linear
S-MPL2-MS	Module MS 2 Acc MWS Module - Linear



S-MPC1-MS



S-MPL2-MS 02



Emergency

Emergency Pack

Valkyrie

112 - 113

Emergency Bulkhead

Knight

114 - 115

Emergency Downlight

Gallant

116 - 117

Emergency Exit Box

Pantheon

118 - 119

Emergency Exit Sign

Noble

120 - 121

Cavalier

122 - 123

Twin Spot

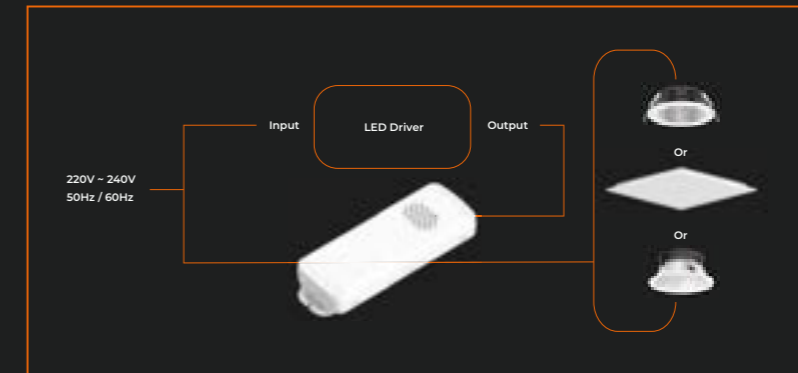
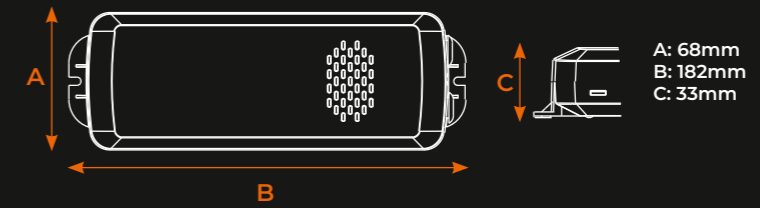
Paladin

124 - 125

Templar

126 - 127

Valkyrie



S-VK-60V/EM3 - Side

Valkyrie Emergency Pack

Product Features

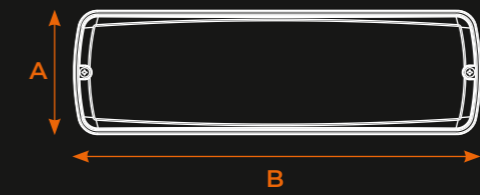
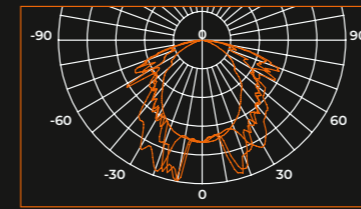
- Discreet universal remote emergency conversion pack.
- Easy conversion of LED luminaires with remote driver system.
- Compatible with LED luminaires with an Vf value between 10-60V.
- Supplied c/w remote mains junction box for easy installation.
- Self Test Emergency as standard with integral switch for manual test requirements.
- Maintained / Non-maintained emergency operation.
- 3hrs Maintained / Non-Maintained Emergency output.

Product Code	Description	Wattage
S-VK-60V/EM3	Valkyrie ST EM 60V Conv Pack	3.7W



S-VK-60V/EM3 - Back

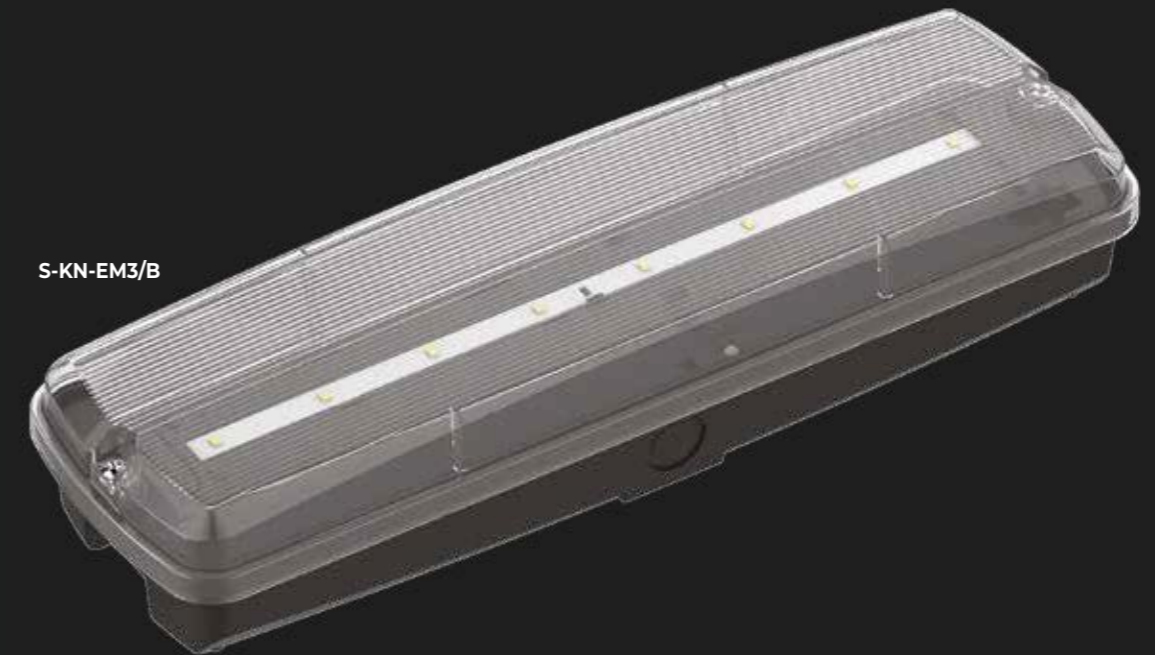
Knight



A: 107mm
B: 349mm
C: 64mm



S-KN-EM3/B



Knight Emergency Bulkhead

Product Features

- Modern polycarbonate emergency bulkhead.
- Design elements to facilitate ultra-fast installation.
- Self Test Emergency as standard with integral switch for manual test requirements.
- 3hr maintained / non maintained operation.
- Supplier c/w 4 universal legend adhesive.

Product Code	Description	Wattage
S-KN-EM3/B	Knight ST EM Bulkhead 6500K IP65 - Black	3.5W
S-KN-EM3/W	Knight ST EM Bulkhead 6500K IP65 - White	3.5W



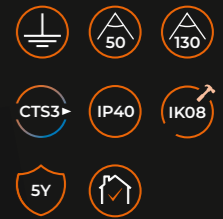
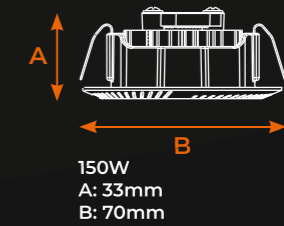
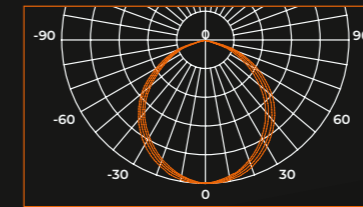
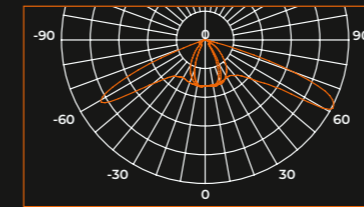
S-KN-EM3/W - Side

S-KN-EM3/W - End



S-KN-EM3/W - Back

Gallant



Gallant Emergency Downlight

Product Features

- Sleek discreet dedicated non-maintained emergency downlight.
- Dedicated designs for open areas and corridor applications.
- Low profile downlight and housing for areas with limited ceiling void height.
- Integrated emergency inverter and battery housing for ease of installation.
- Toolless installation with pushfit terminals and ratchet close housing.
- Self Test Emergency as standard with integral switch for manual test requirements.

Product Code	Description	Wattage	Cut Out (mm)	Colour
S-GL-2W/EM3/CL/B	Gallant ST EM 2W DLight Corridor Lens 6500K IP40	2W	60	Black
S-GL-2W/EM3/CL/W	Gallant ST EM 2W DLight Corridor Lens 6500K IP40	2W	60	White
S-GL-2W/EM3/OL/B	Gallant ST EM 2W DLight Open Lens 6500K IP40	2W	60	Black
S-GL-2W/EM3/OL/W	Gallant ST EM 2W DLight Open Lens 6500K IP40	2W	60	White
S-GL-3W/EM3/CL/B	Gallant ST EM 3W DLight Corridor Lens 6500K IP40	3W	60	Black
S-GL-3W/EM3/CL/W	Gallant ST EM 3W DLight Corridor Lens 6500K IP40	3W	60	White
S-GL-3W/EM3/OL/B	Gallant ST EM 3W DLight Open Lens 6500K IP40	3W	60	Black
S-GL-3W/EM3/OL/W	Gallant ST EM 3W DLight Open Lens 6500K IP40	3W	60	White



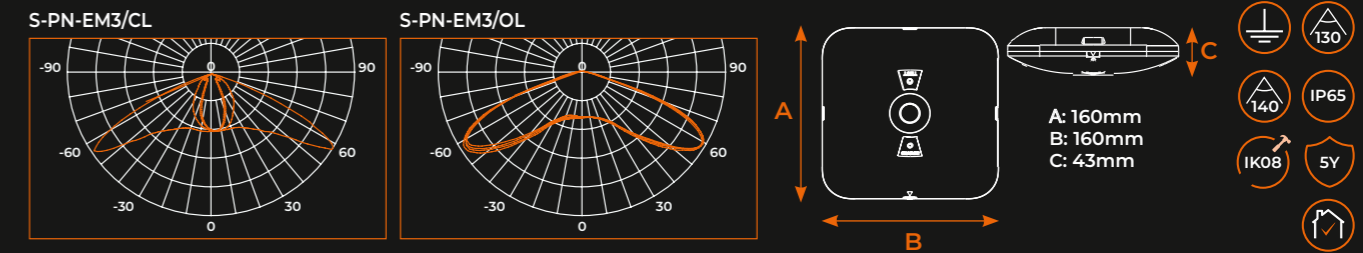
S-GL-2W/EM3/CL/W - Front



S-GL-2W/EM3/CL/W - Side



Pantheon



S-PN-EM3/CL/B - Front



S-PN-EM3/CL/B - Back



S-PN-EM3/CL/B - Side

Pantheon Emergency Downlight

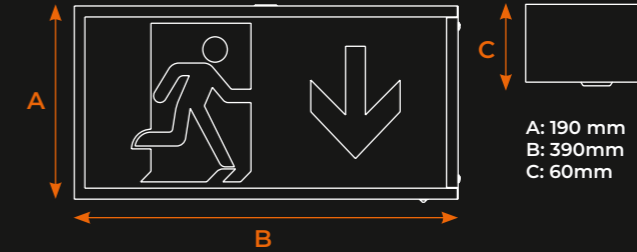
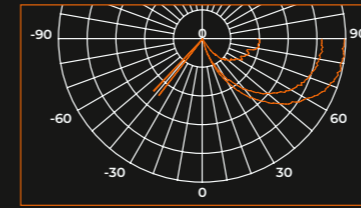
Product Features

- Stylish low profile surface emergency downlight.
- IP65 rating for all interior and exterior emergency requirements.
- Dedicated designs for open areas and corridor applications.
- Self Test Emergency as standard with integral switch for manual test requirements.
- Non-maintained emergency operation.

Product Code	Description	Wattage	Colour
S-PN-EM3/CL/B	Pantheon ST EM Surface Dlight Corridor Lens 6500K IP65	2.5W	Black
S-PN-EM3/CL/W	Pantheon ST EM Surface Dlight Corridor Lens 6500K IP65	2.5W	White
S-PN-EM3/OL/B	Pantheon ST EM Surface Dlight Open Lens 6500K IP65	2.5W	Black
S-PN-EM3/OL/W	Pantheon ST EM Surface Dlight Open Lens 6500K IP65	2.5W	White



Noble



Accessories

Product Code	Description
S-NO-LAD	Noble Legends Acc Arrow Down
S-NO-LAL	Noble Legends Acc Arrow Left
S-NO-LAR	Noble Legends Acc Arrow Right
S-NO-LAU	Noble Legends Acc Arrow Up



S-NO-EM3/B - Front

Noble Emergency Exit Box

Product Features

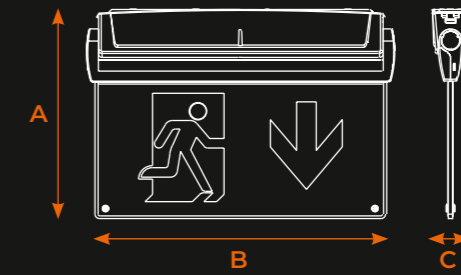
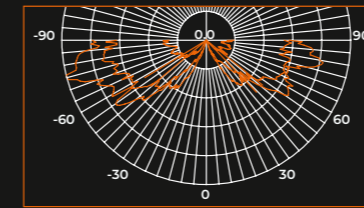
- Slim steel emergency exit box.
- Self Test Emergency as standard with integral switch for manual test requirements.
- Dedicated design dimensions for retrofit requirements.
- Maintained / Non-maintained emergency operation.
- Viewing distance 32M.
- 3hrs Maintained / Non-Maintained Emergency output.

Product Code	Description	Wattage	Colour
S-NO-EM3/B	Noble ST EM Exit Box 6500K IP20	2.5W	Black
S-NO-EM3/W	Noble ST EM Exit Box 6500K IP20	2.5W	White

S-NO-EM3/B - Back



Cavalier



A: 237mm
B: 344mm
C: 42mm



Accessories

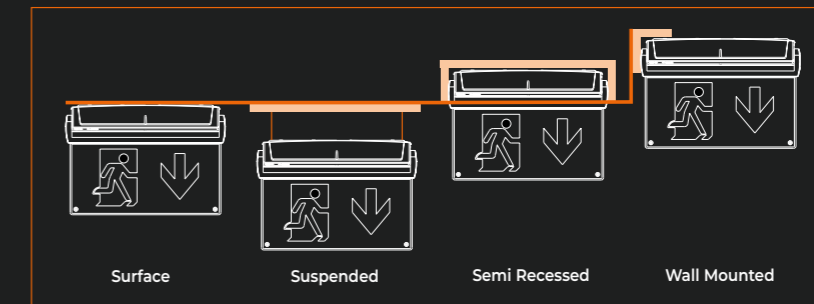
Product Code	Description
S-CV-LAD	Cavalier Legends Acc Arrow Down
S-CV-LARL	Cavalier Legends Acc Arrow Right / Left
S-CV-LAU	Cavalier Legends Acc Arrow Up



S-CV-EM3/W



S-CV-EM3/B



Cavalier Emergency Exit Sign

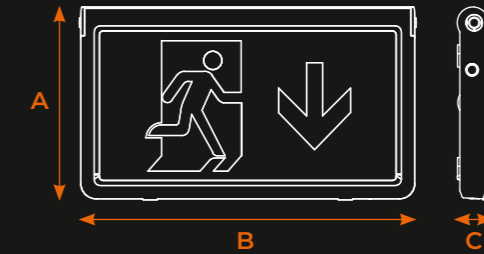
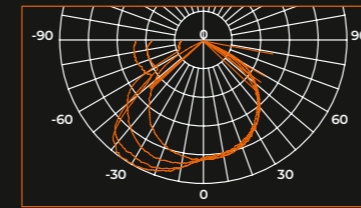
Product Features

- Ultra Modern emergency Exit Sign.
- Supplied with optional suspension, recessed, or side arm wall mounting options.
- Self Test Emergency as standard with integral switch for manual test requirements.
- 3hrs Maintained / Non-maintained emergency.
- Viewing distance 24M.
- 3hrs Maintained / Non-Maintained Emergency output.

Product Code	Description	Wattage	Colour
S-CV-EM3/B	Cavalier ST EM Exit Sign 6500K IP20	2.5W	Black
S-CV-EM3/W	Cavalier ST EM Exit Sign 6500K IP20	2.5W	White



Paladin



A: 187 mm
B: 325mm
C: 30.5mm



Paladin Emergency Exit Sign

Product Features

- Sleek modern emergency exit box.
- Designed with downward light spill assisting the illumination of doorways.
- Unique hinged panel access.
- Self Test Emergency as standard with integral switch for manual test requirements.
- Maintained / Non-maintained emergency operation.
- Viewing distance 24M.
- 3hrs Maintained / Non-Maintained Emergency output.

Product Code	Description	Wattage	Colour
S-PA-EM3/B	Paladin ST EM Exit Box 6500K IP20	2W	Black
S-PA-EM3/W	Paladin ST EM Exit Box 6500K IP20	2W	White

Accessories

Product Code	Description
S-PA-LAD	Paladin Legends Acc Arrow Down
S-PA-LAL	Paladin Legends Acc Arrow Left
S-PA-LAR	Paladin Legends Acc Arrow Right
S-PA-LAU	Paladin Legends Acc Arrow Up



Hinged front access



Security screw



Easy installation access



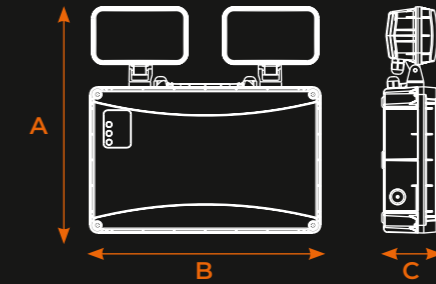
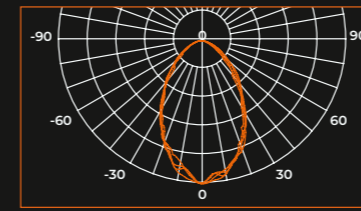
S-PA-EM3/W - Front



S-PA-EM3/W - Back



Templar



A: 294mm
B: 300mm
C: 70mm



Templar Twin Spot

Product Features

- Robust polycarbonate IP65 Twin Spot Emergency.
- Individually adjustable lamp heads.
- Multiple installation options / entries for all applications.
- Self Test Emergency as standard with integral switch for manual test requirements.
- Non-maintained emergency operation.

Product Code	Description	Wattage	Lm/W	Colour
S-TE-EM3/B	Templar ST EM Twin Spot 6500K IP65	3W	520	Black
S-TE-EM3/W	Templar ST EM Twin Spot 6500K IP65	3W	520	White
S-TE-EM3/HO/B	Templar ST EM Twin Spot High Output 6500K IP65	3W	750	Black
S-TE-EM3/HO/W	Templar ST EM Twin Spot High Output 6500K IP65	3W	750	White



S-TE-EM3/W - Front



S-TE-EM3/W - Side



Technical Wording

AC - Alternating Current Alternating current (AC) is an electric current that periodically reverses direction and changes its magnitude continuously with time, in contrast to direct current (DC), which flows only in one direction. Typical 220-240V supplies are supplied as AC.

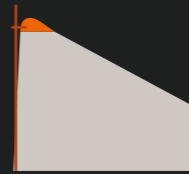
Accent Lighting Accent lighting focuses light on a particular area or object. It is often used to highlight art or other artifacts.

Ambient Lighting (Also known as "Mood lighting") is the use of specific colors or brightness in ambient illumination with the intention of promoting a specific, temporary state of mind or feeling. While not specific to indoor settings, it is most commonly used in indoor environments

Ambient Temperature Ambient temperature is the current, surrounding air temperature of an object or environment for comfort and equipment. It is important to consider this when specifying any lighting product.

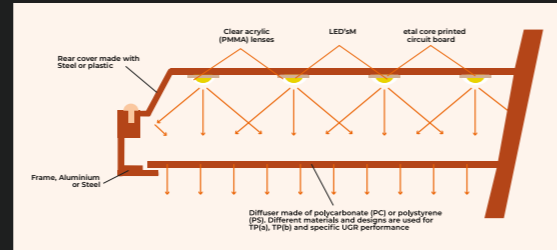
Anti-Ligature A luminaire or accessory specifically designed to be free from points to which a cord or cord like object could be attached, tied to or looped around. Specifically designed for particular healthcare applications.

Asymmetric / Asymmetrical Asymmetric lighting uses specialised lenses or reflectors to direct light precisely, creating a non-uniform, directional beam that illuminates specific areas rather than spreading light evenly



Azimuth The orientation angle in the horizontal plane, most commonly referred to in floodlighting schemes.

Back-Lit Back-lit LED lighting features the light source being situated at the rear of the product facing towards the illuminated surface through a diffuser, lens or both. These fixtures are deeper in design to allow adequate light diffusion but have an added benefit of having an increased luminaire efficiency.



Bathroom Zones There are a number of special requirements for fitting lights in bathrooms and to clarify these requirements, certain Zones have been created. Within each of these Zones only fittings with certain minimum IP ratings can be installed. The basic recommendations are set out below. Bathroom luminaire installations must comply with legislation; please refer to the latest building regulations.

ZONE 0: MINIMUM REQUIREMENT IPX7
Zone 0 is the interior of the bath tub or shower basin. Only Low voltage (SELV) fittings are permitted with the transformer located outside all zones.* *unless transformer is IPX7 too.

ZONE 1: MINIMUM REQUIREMENT IPX4
Zone 1 is the area around the bath or shower basin up to a height of 2.25m above floor levels and at a radius of 1.2m from the water outlet. If there is a likelihood of water jets being used for cleaning purposes, then this becomes a minimum requirement of IPX5.

ZONE 2: MINIMUM REQUIREMENT IPX4
Zone 2 is limited by the vertical planes external to zone 1 and parallel vertical planes(s) 0.60m external to zone 1. If there is a likelihood of water jets being used for cleaning purposes, then this becomes a minimum requirement of IPX5. For showers without a basin, there is no zone 2 but an increased zone 1.

IMPORTANT
Protection for all electrical fixtures within the bathroom and shower should be provided by the use of an RCD with a rated residual current not exceeding 30mA and an operating time not exceeding 40ms



Beam Angle The measurement of the light output distributed by the luminaire or lamp.

Binning (LED) LED binning is the process of sorting light-emitting diodes (LEDs) into groups based on their colour and brightness characteristics. This process is essential for ensuring consistency in LED lighting products, such as light bulbs, and maintaining quality standards.

Brightness The intensity of light your eye receives.

BSI British Standards Institute, the UK National Standards Body
www.bsigroup.com
Key Standards applicable include
BS 476 part 21 Fire test for building Materials
BS 5225 Photometric Data for Luminaires
BS 5266 Code of practice for Emergency Lighting
BS7671 Requirements for Electrical Installations (Wiring Regulations)
BS EN 60570 Track systems for Luminaires
BS EN 60598-1 Luminaires - General requirements and tests
BS EN 60598-2-2 Luminaires – Specific requirements, Recessed Luminaires
BS EN 60598-2-5 Luminaires – Specific requirements, Floodlights
BS EN 60598-2-6 Luminaires – Specific requirements, In-built Transformers
BS EN 60598-2-22 Luminaires - Specific requirements, Emergency Lighting
BS EN 61047 Electronic Transformers

Building Regulations Building regulations are mandatory minimum standards in the UK (specifically England and Wales) for the design, construction, and alteration of buildings to ensure safety, health, and energy efficiency. They cover structural integrity, fire safety, ventilation, and accessibility. Compliance is required for most work, with Approved Documents providing guidance, and it is distinct from planning permission.

Key Lighting Regulations (Part L & Others)
Efficiency Standards:
Non-dwellings (General): Minimum 95 luminaire lumens per circuit-watt.
Non-dwellings (Display): Minimum 80 luminaire lumens per circuit-watt.
Dwellings: Over 75 lamp lumens per circuit-watt.
Controls & Operation: Internal lighting requires local, automated controls (e.g., occupancy sensors) to limit usage. External lighting must feature automatic controls to deactivate during daylight hours.
Lighting circuits often require individual meters for monitoring in commercial spaces.
Safety & Installation: All electrical work must comply with BS 7671 (wiring regulations).
Emergency lighting must be designed, installed, and tested by competent persons according to BS 5266-1.
Design Considerations: Lighting should not over-illuminate, with designs often following the CIBSE SLL Lighting Handbook.
Replacement lighting during renovations or re-wiring must meet these new efficiency standards.

Candela - (CD) The SI unit of luminous intensity. One candela is the luminous intensity, in a given direction, of a source

Capacitor A capacitor is a passive, two-terminal electronic component that stores electrical energy in an electric field by accumulating charge on two conductive plates separated by an insulating material (dielectric). They are used in circuits to filter signals, smooth power supplies, and store energy for rapid release

CCT (Correlated Colour Temperature) CCT (Correlated Colour Temperature) LED lighting refers to lights that allow for adjustable white light, measured in Kelvin (K), ranging from warm, yellowish tones (2700K) to cool, bluish, or daylight white (6500K). This technology enables users to change the color atmosphere of a space—from relaxing (warm) to productive (cool)—often via switches, remotes, or smart apps, making them popular for homes, offices, and under-cabinet lighting,

CE "CE" generally refers to CE Marking (Conformité Européene), a mandatory conformity mark for products sold in the European Economic Area (EEA) indicating compliance with health, safety, and environmental standards.

CIBSE CIBSE (the Chartered Institution of Building Services Engineers) is the leading global body for building services professionals, championing sustainability, innovation and building performance across the built environment

Class I A Class 1 light fitting is an electrical fixture with metal or conductive parts that requires an earth connection (yellow/green wire) for safety. It uses basic insulation, and the earth wire provides a path to ground to prevent electric shocks in case of a fault. These are common in residential/commercial settings, such as chandeliers, pendants, and industrial fittings.



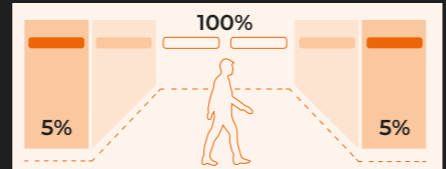
Class II Class 2 light fittings, or double-insulated lights, are designed for safety without requiring an earth connection, making them ideal for older properties with two-core wiring (no earth wire). They feature enhanced, double-layer insulation to prevent electric shock. These lights are identifiable by a double-square symbol, typically used for ceiling, wall, and bathroom fixtures



Class III Class 3 (or Class III) light fittings are specialised lighting products designed to operate at Safety Extra-Low Voltage (SELV), usually 12V or 24V. These fittings are engineered for maximum safety in specific environments, offering protection against electrical shock without requiring an earth connection. Max 50V AC.



Corridor Function Corridor function lighting is an energy-efficient, automated control system for LEDs that adjusts brightness based on occupancy. Using integrated sensors, lights remain at a low, safe, "standby" dim level (typically 10-50%) and increase to 100% brightness when motion is detected, then fade down after a set time. This is ideal for hallways, car parks, and stairwells to ensure safety while maximizing energy savings.



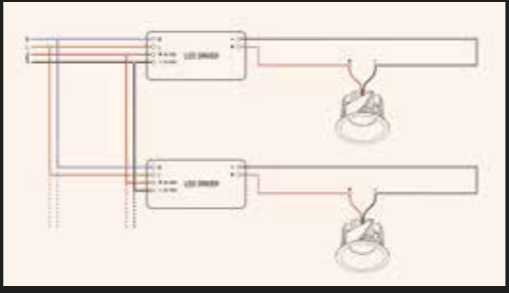
CRI (Colour Rendering Index) or Ra The ability of a light source to accurately reveal the colours of an object(s) is measured using a system called the colour rendering index (CRI). It is given as an integer from 0 - 100. 100 being considered as presenting colours in a manner consistent with a natural light source such as daylight. Halogen lamps typically have a CRI of 100 as they closely mimic daylight. The higher the number the better for accuracy of colour within the illuminated area.

DC - Direct Current Direct Current (DC) voltage is a constant electrical potential that flows in one direction with zero frequency, typically produced by LED drivers and batteries. Unlike AC, DC maintains a steady polarity, making it essential for electronics / LED circuits.

Dimming Dimming means reducing the output of a lamp or lighting fixture. The output of a lamp or lighting fixture is measured in lumens (lm) and is sometimes known as its "luminous flux". As a lamp or fixture is dimmed its lumen output decreases.

Dimming - Mains Mains dimming (TRIAC or phase-cut dimming) controls light brightness by "chopping" the 50Hz AC voltage signal, switching current on/off rapidly. It reduces power to the lamp, allowing dimming without special additional wiring. It is popular for residential LED retrofits, with trailing-edge dimmers preferred for smoother, silent operation

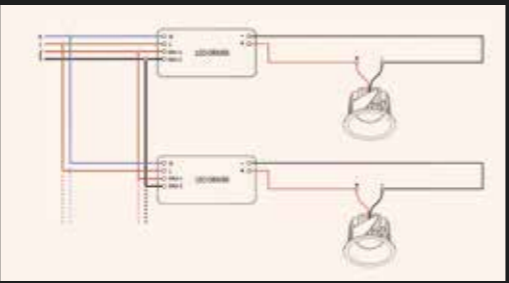
Dimming 0-10V / 1-10V 0-10V dimming is a widely used analog, low-voltage protocol for controlling LED and fluorescent lighting, providing smooth dimming from 100% (10V) down to 0-10% (0-1V). It requires a 0-10V dimmable driver and dedicated, low-voltage control wires (purple/grey) separated from the main power lines.



1-10V dimming is a reliable, analog lighting control method using a 1-10V DC signal to adjust LED brightness, where 1V is roughly 10% (lowest) and 10V is 100% (brightest). 1-10V

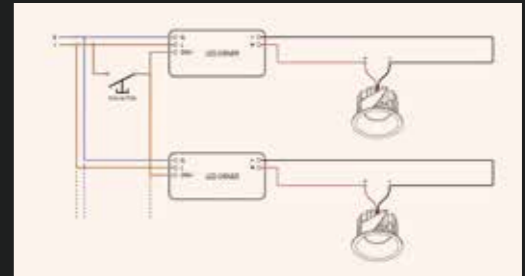
0-10V can be controlled from 0% output (off - 0V) to 100% output (full brightness - 10V) via the signal connections. 1-10V other the other hand will only be controlled from 5-10% output (1V) to 100% output (full brightness - 10V) via the signal connections.

Dimming DALI DALI (Digital Addressable Lighting Interface) is an international standard (IEC 62386) for networked, digital lighting control, allowing for precise, individual, and addressable dimming of up to 64 fixtures per network. It uses a two-wire, non-polarized bus to provide smooth, logarithmic, flicker-free dimming from 100% to 0.1%, ideal for commercial, office, and, increasingly, residential applications.



Dimming Leading / Trailing Edge Leading-edge (forward-phase) and trailing-edge (reverse-phase) dimmers manage light output by cutting AC voltage waveforms, with trailing-edge being the preferred, smoother, and quieter standard for LED lamps. Leading-edge is better for traditional incandescent/halogen loads, while trailing-edge is more expensive but prevents buzzing and flickering in modern lighting.

Dimming SwitchDIM / Push to Dim SwitchDIM / Push to Dim is a low-cost, effective lighting control method using a standard retractive (momentary) switch to control, dim, and switch compatible LED drivers via a dedicated control line. A quick press turns lights on/off, while holding the switch dims or brightens them. It requires a 4-core cable (permanent live, neutral, switch-live, earth).



Direct Lighting Direct light is when the light from a fixture or lamp falls on a specific area or an object. Direct light is created from a fixture or a screen that focuses all light in a certain angle. Directional light creates a sharp contrast between light and shadow. Downlights are a great example of a direct light since they only illuminate downwards. Spotlights are another light source that angle the light to a specific object or area.

DLOR DLOR Downward Light Output Ratio is the ratio of the total light output of a luminaire below the horizontal.

Double Insulation / Insulated Double insulation is an electrical safety design using two layers of insulating material between live parts and user-accessible surfaces, eliminating the need for an earth connection. Class II appliances, marked with a double square symbol, protect against shock via an insulated casing and reinforced wiring, common in household items like hairdryers and plastic-cased tools

Edge-Lit / Side-Lit Edge-lit LED lighting features light sources placed around the perimeter of a fixture, shining inward into a light-guide plate (LGP) to create soft, uniform, and glare-free illumination. These fixtures are exceptionally thin, lightweight, and energy-efficient, making them ideal for modern, sleek office panels.

Efficiency This is the ratio between the total luminous flux emitted by a device and the total amount of input power (electrical, etc.) it consumes

Flicker Flicker is the name given to changing light intensity caused by fluctuations in the voltage / output. It is the second most common quality problem causing both irritation and possible medical consequences to users exposed to its effects.

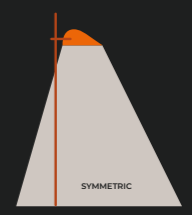
Indirect Lighting Indirect light, on the other hand, is usually used to illuminate a wider area. A light source whose light also illuminates other objects in a room with an even light distribution is an indirect light source. Indirect light creates a harmonic even light without a sharp contrast between light and shadow. Naturally we have indirect light from the sunlight shining through a window, illuminating a room with a soft even light.

Lithium Battery or LiFePO4 LiFePO4, or Lithium Iron Phosphate, is a type of lithium battery that uses iron, phosphate, and lithium as its main components. Lithium-ion batteries, commonly referred to as Li-ion, are rechargeable batteries that use lithium compounds in their chemical makeup. LiFePO4 is used in many industries like emergency lighting due to its durability and reliability.

Pst A short term flicker Perceptibility (Pst) measurement of 1 describes the point at which 50% of the population actually becomes irritated by the flicker while long term (Plt) indicates the irritations caused by irregular flicker effects over a long period.

Stroboscopic Effect The stroboscopic effect is a visual phenomenon where continuous motion appears slowed, stopped, or reversed when illuminated by flickering light or sampled at discrete intervals (like camera frames). It happens when the motion frequency syncs with the sampling rate, often creating the "wagon-wheel" illusion where rotating objects seem stationary. This can be dangerous in working environments and correctly specified product is required to avoid.

Symmetric / Symmetrical Symmetrical lighting distributes light evenly in all directions from the source, creating a balanced, uniform, and consistent illumination ideal for large, open spaces, general lighting.



UGR UGR or Unified Glare Rating is a calculated value for the amount of glare or discomfort produced by a group of luminaires within an application. The value ranges from 10 to 30, the higher the value the more perceptible the glare effect within the area.

ULOR ULOR Upward Light Output Ratio. The ratio of the total light output of a luminaire above the horizontal.

Efficacy Lighting efficacy measures how efficiently a light source converts electrical power into visible light, expressed in lumens per watt (lm/W).

EMC Electromagnetic Compatibility. Electrical items produce unintentional interference so EMC ensures these levels are within the required guidelines and should not cause unwanted interference with other equipment

Emergency Lighting	Emergency lights provide automated, battery-backed illumination during power failures, typically required for 1–3 hours to ensure safe evacuation, particularly in commercial, high-occupancy, and public buildings. They include maintained (always on) and non-maintained (only on during power failure) types, featuring LED technology for energy efficiency. Essential for exit routes, they include exit signs and bulkheads, with regular testing mandated by safety regulations
Emergency Lighting Testing	Emergency light testing ensures safety and legal compliance by verifying that, in a power failure, battery-powered units activate and illuminate escape routes. This is a mandatory requirement and testing should be recorded periodically. <ul style="list-style-type: none"> · Daily – visual check that the charge indicator LED is illuminated · Monthly – a functional test that the luminaire operates when mains supply is disconnected · Annually – as monthly test but for the full rated duration of the luminaire (3hrs).
Energy Label - (EEI)	The EU energy label gives information about the energy efficiency of a product. The label rates products from dark green (most efficient) to red (least efficient). The scope has changed over the years with the aim to push efficiency of products utilised in volume doemtocally and commercially and the scaling helps aid buying decisions. The new energy labeling scale runs from A (most efficient) to G (least efficient), replacing older A+++/A++/A+ designations
Escape Route Lighting	Escape route lighting provides essential illumination to ensure the safe, rapid evacuation of a building during a power failure, maintaining a minimum of 1 lux along the centerline of escape routes and 2 lux at critical points like stairwells, intersections, and fire safety equipment. This emergency lighting must function on local failure, not just total power loss.
Anti-Panic Emergency Lighting	Anti-panic emergency lighting is a type of open-area safety lighting designed to prevent panic and assist in finding evacuation routes in large, open spaces (>60m ²) during a power outage. It ensures a minimum of 0.5 lux illumination, allowing occupants to safely reach, identify, and follow escape routes. The purpose is to reduce panic in large spaces (e.g., open-plan offices, concert halls, gyms) by providing enough visibility to navigate to exits.
Fire-Rating	A fire rated light fitting is one that is designed to preserve the 30, 60 or 90 minute fire resistant quality of the ceiling in which it is installed. Background. Many ceilings are designed to be fire resistant and this is a requirement of the UK Building Regulations.
Flux	Luminous flux is defined as the measure of power emitted by a light source, often quantified in lumens (lm), which indicates the perceived brightness of the light
Frequency - (Hz)	Lighting frequency generally refers to the AC mains electricity driving the lamp, typically 50-60 Hz, causing invisible flickering. While 50-60 Hz is standard, high-frequency (HF) electronic ballasts operate at 30 kHz or higher, improving efficiency, reducing power loss, and eliminating perceptible flicker.
General Lighting	General lighting, also known as ambient lighting, provides uniform, foundational illumination for an entire space, creating a base layer of brightness. It ensures safe movement and basic visibility in areas like hallways, rooms, and offices, often using ceiling-mounted fixtures, chandeliers, or recessed lights to mimic natural daylight
Anti-Glare	Anti-glare technology, including lens filters that diffuse reflected light to minimise light intensity caused by luminaires. This design / technology controls light transmission, providing clearer, focused, and more comfortable vision with the area.
Glare	Glare is a visual impairment caused by high-intensity light in the field of view, creating excessive contrast that causes discomfort or reduces visibility. It is categorised into discomfort glare (instinctive need to look away) and disability glare (impaired vision due to scattered light). Common sources include direct sun, vehicle headlights, or reflections.
Hazardous Area	A hazardous area is a location where, due to the presence of flammable gases, vapours, liquids, or combustible dust, a risk of fire or explosion exists, requiring special precautions for equipment installation and work practices. These areas are classified into zones (0, 1, 2 for gases; 20, 21, 22 for dust) based on the frequency and duration of the hazard, often regulated under ATEX or NEC standards.
Hertz (Hz)	Cycles (frequency) per second
High Risk Task Area	High-risk task areas are specialized workspaces where dangerous activities—such as operating heavy machinery, handling hazardous materials, or performing complex, time-sensitive shutdowns—occur. During emergencies, these areas require specific, high-intensity emergency lighting (minimum 15 Lux or 10% of normal light) to allow safe, immediate shutdown before evacuation
Mid Power LED	Mid-power LEDs typically operate at a maximum of 1 watt, generally ranging between 0.2W and 1.0W per emitter.
High Power LED	High power LEDs typically come in packages of greater than 1 watt. They are driven at relatively high currents of typically 350, 700, or 1000 mA and produce several hundred lumens per 1 W.

Illuminance	Illuminance is the measure of the total luminous flux (lumens) incident on a surface per unit area, representing how brightly a surface is lit rather than the brightness of the light source itself. It is measured in lux (lx), where 1 lx = 1 lumen. It depends on the light source intensity, distance, and angle.
Illumination	The density of luminous flux on a surface, this parameter shows how bright the surface point appears to the human eye.
IP Ratings Classification of Ingress Protection	IP followed by two numerals indicates the degree of protection. The first numeral indicates the degree of protection against the ingress of solid of objects, while the second numeral refers to the degree of protection against the ingress of water. Protection Against Solid Objects Protection Against Ingress of wWater IP20 Greater than 12mm Non-protected IP21 Greater than 12mm Dripping water IP22 Greater than 12mm Dripping water (up to 15° angle) IP23 Greater than 12mm Spraying water (up to 60° angle) IP40 Greater than 1mm Non-protected IP43 Greater than 1mm Spraying water (up to 60° angle) IP44 Greater than 1mm Splashing water IP54 Dust-protected Splashing water IP55 Dust-protected Water jets IP64 Dust-tight Splashing water IP65 Dust-tight Water jets IP66 Dust-tight Powerful water jets IP67 Dust-tight Water immersion IP68 Dust-tight Submersion to declared depth IP69 Dust-tight Powerful high temperature water jets
Initial Lumens	Initial lumens represent the maximum, total light output emitted by a light source when it is first turned on, usually measured after an initial stabilization period (e.g., 100 hours for some lamps). This metric indicates the highest potential brightness, often listed on product spec sheets before accounting for lumen depreciation.
Delivered Lumens	Delivered lumens measure the actual amount of usable light exiting a fully assembled lighting fixture and reaching the target area, accounting for losses from lenses, baffles, and housing.
Input Voltage	Voltage provided to a device/driver/luminaire by the power supply
Lxx / Bxx Values	This is a standard rating used in the LED lighting industry to define the expected lifespan and brightness degradation of an LED light source over time. Unlike traditional lamps that fail abruptly, LEDs gradually fade (lumen depreciation). Lxx (Lumen Maintenance): The light output will drop to xx% of its original brightness (luminous flux). Bxx (Failure Population): xx% of the LED population (or xx% of the individual LED chips in a fixture) is expected to fall below that Lxx% threshold. Example L70B50 at 50,000h: This means that at 50,000 hours, 50% of the LEDs in that batch will have a light output of 70% or less.
Lifetime Depreciation	LED lifetime depreciation refers to the gradual reduction in brightness (lumen output) of LED lights over time rather than a sudden burnout. Most LEDs are rated for “useful life” (L70) when they reach 70% of their original output. This degradation is driven by heat management, component quality, and operating hours
Lumen Maintenance	LED lifetime maintenance (or “lumen maintenance”) refers to the, gradual process by which LED lights lose their brightness over time, rather than burning out instantly like traditional incandescent or fluorescent lamps.
Inrush Current	Inrush current is a sudden surge of current that occurs when an electrical device is first powered on. This transient current can be several times higher than the steady-state operating current and may cause issues such as circuit breaker tripping, voltage dips, and premature component failure. These values need to be considered when switching a large quantity of LED luminaires or high power LED luminaires.
Kelvin - (K)	CCT (Correlated Colour Temperature) LED lighting refers to lights that allow for adjustable white light, measured in Kelvin (K), ranging from warm, yellowish tones (2700K) to cool, bluish, or daylight white (6500K). This technology enables users to change the color atmosphere of a space—from relaxing (warm) to productive (cool)—often via switches, remotes, or smart apps, making them popular for homes, offices, and under-cabinet lighting,
kWh	A kilowatt-hour (kWh) is a unit of energy measuring total electricity usage, representing 1,000 watts used continuously for one hour. It is the standard unit for electricity billing, calculated by multiplying an appliance's power in kilowatts (kW) by time in hours. A 1 kWh unit can power a 100W bulb for 10 hours or a 2kW oven for 30 minutes
Lamp	A device which converts electrical energy into producing light.
LED	LED or light-emitting diode is a semiconductor diode which glows when a voltage is applied.

SMD LED	SMD (Surface Mounted Device) LEDs are compact, highly efficient light-emitting diodes soldered directly onto printed circuit boards (PCBs). They are widely used for versatile, low-power, and bright lighting, including LED strips, LED lamps and others.	
COB LED	COB (Chip on Board) LED strips feature multiple LED chips mounted directly onto a substrate, creating a dense, seamless, and "dot-free" line of light with no visible hotspots	
LED Driver / Converter	An LED driver is a self-contained power supply that converts high-voltage AC power supply to low-voltage DC, regulating power to ensure LEDs and LED circuits operate within safe current/voltage limits.	
Luminance	Luminance is the luminous intensity projected on a given area and direction. Luminance typically describes the intensity of emitted light. This measures the amount of light falling on a surface (lm/m ²)	
Luminous Intensity	Luminous intensity is a measure of the light that shines from the source in a given direction	
Luminous Flux or Flux	Luminous flux is the total quantity of visible light emitted by a source per unit of time, measured in lumens (lm). It represents the perceived brightness of a light source, rather than just its power consumption (watts), making it a key metric for energy efficiency. Higher lumen values indicate a brighter light.	
Luminous Efficiency	Luminous efficiency (or efficacy) measures how effectively a light source converts electrical power (W) into visible light (lm), expressed in lumens per watt (lm/W). A higher value indicates better energy efficiency and lower electricity consumption.	
Lux	Lux (symbol: lx) is the International System of Units (SI) derived unit of illuminance, measuring luminous flux per unit area. It represents the brightness of light falling on a surface, with 1 lux equal to 1 lumen per square meter (1 lm/m ²).	
LVD	European Union's Low Voltage Directive (2014/35/EU), a regulatory framework ensuring safety for electrical equipment with input/output voltages of 50–1000V AC or 75–1500V DC. It requires products to be safe, tested, and CE-marked for the EU/EEA market. It also refers to LVD Group (sheet metal machinery) or Low Voltage Disconnect (battery protection).	
Maintained Luminaire	A maintained luminaire is an emergency light fitting that remains illuminated at all times (or when required), operating from the main power supply, and switches to its internal battery backup during a power failure.	
Non-Maintained Luminaire	Non-maintained emergency lights remain off during normal operation, activating only when the mains power fails, typically illuminating for at minimum of 3 hours via a battery backup after power failure.	
CTS - Colour Temperature Selectable	Colour temperature selectable lighting (CTS) uses a built-in switch, to let the installer / end user to choose between warm 2 or more CCT options to achieve the desired output.	
MS - Microwave Sensor	A microwave sensor is an active motion-detecting device that emits high-frequency electromagnetic waves and measures reflections (echoes) off moving objects. These sensors are used in lighting control and security systems to detect movement, even through thin walls, glass, or plastic, making them highly sensitive for indoor and, occasionally, outdoor applications. MS sensors are highly sensitive and the type of application should be considered before specification to ensure the nuisance triggering will not occur.	
EM3 - 3hr Emergency	Maintained 3 hour Emergency mode and duration (minimum with fully charged batteries) of an Emergency luminaire. To ensure the full duration is achieved, Emergency luminaires must be correctly maintained to condition the batteries.	
NL - Night Light	A night light is a low-intensity, low-wattage light fixture or in built function used to provide a low output illumination in dark environments, such as bedrooms, nurseries, or hallways. It helps with navigating safely at night, reduces fear of the dark, and provides comfort without waking you up with bright light.	
NiCd	Nickel-cadmium (Ni-Cd) batteries are rechargeable power sources using nickel oxide hydroxide and metallic cadmium electrodes with a 1.2V nominal voltage	

NiMh	Nickel-Metal Hydride (NiMH) batteries are rechargeable power sources (nominal 1.2V). They offer 30-40% higher capacity than NiCd but have a higher self-discharge rate.
PIR - Passive Infrared	Passive infrared (PIR) sensors are motion detectors that identify heat-emitting moving objects, commonly used for automated lighting. They work by measuring changes in infrared radiation (thermal energy) using a pyroelectric sensor and a Fresnel lens, which focuses infrared energy onto two sensor slots. These versatile, low-cost sensors are ideal for energy-saving, detecting movement of people.
PC - Photocell	A photocell sensor (or photoresistor/LDR) is an electronic component that helps automate lighting functionality with "dusk-to-dawn" lighting control.
Ambient Light Sensor (ALS)	An ambient light sensor (ALS) is a photodetector component that measures the intensity of surrounding light (in lux) to automatically adjust brightness or/and color temperature of the installed lighting system.
Phase Cut Off / Resistive Dimmers	Phase-cut dimming is the most common method for controlling light intensity in residential and commercial settings, working by "chopping" the AC voltage waveform to reduce power. There are two primary types which define how the wave is cut and which types of lamps they can control. Leading-edge (often used for resistive loads). Trailing-edge (preferred for capacitive/LED loads)
Photometrics	Photometrics is the science of measuring light, specifically how it is emitted from a source, distributed in a space, and perceived by the human eye. It enables the analysis of light intensity, direction, and coverage (using lumens, lux, or candela) to optimize lighting designs for efficiency, safety, and performance.
Ra	The ability of a light source to accurately reveal the colours of an object(s) is measured using a system called the colour rendering index (CRI). It is given as an integer from 0 - 100. 100 being considered as presenting colours in a manner consistent with a natural light source such as daylight. Halogen lamps typically have a CRI of 100 as they closely mimic daylight. The higher the number the better for accuracy of colour within the illuminated area.
REACH	REACH typically refers to the European Union regulation (No 1907/2006) for the Registration, Evaluation, Authorisation, and Restriction of Chemicals, designed to protect human health and the environment. It mandates that companies identify and manage risks linked to chemicals manufactured or marketed in the EU
RED - Radio Equipment Directive	The EU's Radio Equipment Directive (RED), 2014/53/EU, sets mandatory safety, health, electromagnetic compatibility (EMC), and radio spectrum efficiency standards for radio-enabled products to bear the CE mark. Effective August 1, 2025.
Relux	Relux is a comprehensive, high-performance software application used by lighting designers, architects, and engineers for professional indoor and outdoor lighting simulation, design, and energy efficiency calculations. It enables 3D modeling, daylight simulation, and precise calculations for artificial light and sensors, with direct integration into BIM workflows
RoHS	RoHS stands for Restriction of Hazardous Substances, a European Union directive (first introduced in 2003) that restricts the use of specific hazardous materials in electrical and electronic equipment (EEE). Its primary goal is to protect human health and the environment by reducing toxic pollutants in landfills and manufacturing.
Self-Contained	Self-contained lighting, primarily used for emergency, refers to luminaires containing all necessary components battery, charger, and lamp within a single unit, allowing them to operate independently. These lights connect directly to the mains for charging but function autonomously during power failures, making them easy to install and ideal for smaller or retrofitted buildings.
Self Test Emergency	The Self-Test circuit utilises a automated internal clock / timer (IC) to interrupt the permanent mains supply at set random intervals of automatic testing to initiate emergency lighting tests. The Self Test units are supplied pre-programmed to initiate short duration tests once every month and a full duration test once every 12 months (as recommended in BS5266 and EN50172).
SELV	Separated Extra-Low Voltage (SELV) is a protective electrical safety standard ensuring, through isolating transformers and double insulation, that low-voltage circuits (generally <50VAC/120VDC) are separated from higher voltages and earth ground. It prevents electric shock, commonly used in bathrooms, swimming pools, and lighting systems.
Non-SELV	Non-SELV (Non-Safety Extra Low Voltage) refers to electrical circuits or devices, such as LED drivers, that operate at low voltages but lack the strict safety isolation from mains power and earth required for SELV classification. They may use non-isolated technology, making them higher risk for shock than SELV, often used for efficiency in enclosed or professional-only fixtures.
Task lighting	Task lighting is focused, direct illumination designed to facilitate specific activities reducing eye strain and increasing precision. It is brighter than ambient light, targeting small areas to eliminate shadows and enhance visibility, with common examples including desk lamps, under-cabinet lighting, and spotlights.
Tc Rating - (Tc°)	"Tc rating" most commonly refers to the Case Temperature (Tc) in electronics (especially LED lighting), representing the maximum allowable temperature at a specific spot on a component's casing for reliable operation. Exceeding this rating can significantly shorten product lifespan.

Thermal Cut-out Thermal cut-out is a vital safety mechanism that automatically disconnects power when temperatures exceed safe limits to prevent fire or damage. These sensors, turn off lights if they overheat due to poor ventilation or high-wattage bulbs, causing them to flicker or shut down

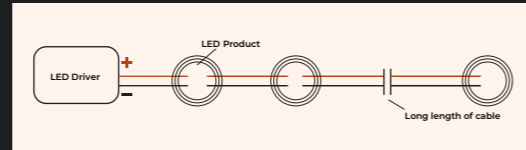
Thermal Performance Thermal management in LED lighting is critical for preventing premature failure and ensuring optimal performance, as high temperatures degrade light output, color consistency, and lifespan. Effective thermal design involves using heat sinks, thermal interface materials, and convective cooling to keep junction temperatures well below the rated limitiations.

TP(a) / TP(b) TP(a)/TP(b) relates to the rating of the material from which a lighting diffuser, when it is part of the ceiling. It is important in "buildings other than dwellings" and its purpose is to restrict the spread of fire horizontally across a ceiling.

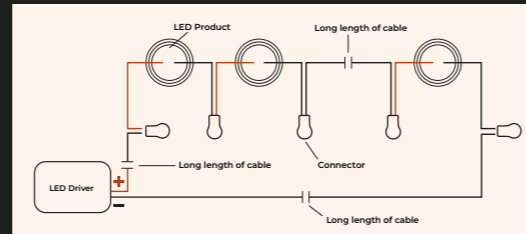
TP(a) rated diffusers can be used installed in all applications (except for in Protected Stairways).

TP(b) rated diffusers you should check that the spacings and total area are within the stipulations of the UK Building Regulations.

Parallel Wiring Wiring LED lights in parallel involves connecting each individual LED or strip directly to the power supply, ensuring all positive terminals connect to the positive wire and all negative to negative. This method provides equal voltage to each unit for consistent brightness and allows others to remain lit if one fails.



Series Wiring Series wiring is a method where electrical components / LED's are connected in a single, continuous loop, with the positive terminal of one component connecting to the negative of the next. This increases total resistance and voltage while keeping current consistent across all components.



Lighting Design A lighting design service provided by a team of vastly experienced and industry qualified staff providing accurate design advising the specification of lighting products in an area or buidling.

Light Meter / Lux Meter A light meter is a device used to measure the intensity of light, providing precise Lux readings of the lighting to ensure environmental safety.

Light Spillage / Obtrusive light Unwanted, misdirected, or excessive artificial light that extends beyond its intended target area, causing light pollution, glare, and energy waste. It commonly affects ecosystems, reduces nighttime visibility, and disturbs human sleep. Mitigation involves using shielded, downward-facing fixtures, sensors, and proper design to control light direction

Light Polution Light pollution is the excessive, misdirected, or unnecessary use of artificial light at night, creating an artificial brightening of the night sky known as "sky glow". It stems from poor lighting design, including light trespass, glare, and upward-directed light, which disrupts ecosystems, interferes with human sleep, and hides the stars.

Lm/W Lumens per watt (Lm/W) is the SI unit for luminous efficacy, measuring how efficiently a light source produces visible light (Lumens / lm) relative to the electrical power it consumes (W). A higher ratio indicates a more energy-efficient luminaire, providing more brightness for less energy.

LOR Light Output Ratio. The ratio of the total light output of a luminaire under stated conditions to that of the lamp or lamps under reference conditions. The higher the figure, the more efficient the luminaire is. LOR may consist of any ratio of DLOR and/or ULOR.

Lumen - (lm) A lumen (lm) is the SI unit of luminous flux, measuring the total amount of visible light emitted by a source perceived by human eye sensitivity. A higher lumen count indicates a brighter light.

UKCA The UKCA (UK Conformity Assessed) marking is a product safety mark used for goods placed on the market in Great Britain (England, Wales, and Scotland). It indicates compliance with GB product regulations. Due to government updates, many CE-marked goods are accepted indefinitely alongside UKCA, though some sectors differ.

Utilisation Factor The ratio of luminous flux (lumens) that actually reaches the working plane compared to the total light emitted by the lamps. It represents the efficiency of a luminaire within a specific room, ranging from 0 to 1, and is essential for calculating the number of luminaires required for a desired average illuminance level

Ultra Violet - UV Ultraviolet (UV) is a form of invisible high-energy electromagnetic radiation with wavelengths of 100–400 nm, shorter than visible light but longer than X-rays. Primarily emitted by the sun, UV rays are classified as UVA, UVB, or UVC based on wavelength.

Infrared - IR Infrared (IR) radiation is a form of invisible electromagnetic energy with wavelengths longer than visible red light (ranging from 780 nm to 1 mm). Often called thermal radiation, it is emitted by all objects above absolute zero, felt by humans as heat.

Voltage - (V) Voltage, also known as electrical potential difference, is the "push" or pressure that causes electric charges to move through a conductor, measured in volts (V). It represents the energy required per unit charge to move it between two points in a circuit, acting as the force driving current.

Watt - (W) A watt (W) is the International System of Units (SI) unit for power, measuring the rate at which energy is produced or consumed. Defined as one joule per second (1 J/s), it indicates the speed of energy transfer.

The energy cost of operating an electrical device is calculated as its wattage times the hours of use. In single phase circuits, it is related to volts and amps by the formula: Volts x Amps x Power Factor = Watts. (Note: For AC circuits, Power Factor must be included).

WEEE WEEE stands for Waste Electrical and Electronic Equipment, referring to discarded, broken, or end-of-life electronics ranging from household appliances to IT equipment. It is a heavily regulated waste stream aimed at increasing recycling, reducing landfill, and managing hazardous materials. Proper disposal ensures environmental compliance and recovery of valuable resources. When supplied as B2B EEE the producer invokes regulation 12.2 and passes all WEEE obligations to the end user

Zenith The direction directly above the luminaire (180° angle). Term used in floodlighting designs

LDC / Polar Curve LDC stands for Luminous Intensity Distribution Curve. It is a graph, often provided in technical data sheets, that shows how a luminaire (light fixture) distributes its light in space.

Engineers use polar curves to plot the level of the intensity at any given point. In other words, a polar curve tells an engineer how LED light bulbs spread light across a room or surface. This distribution may be narrow, wide, indirect or direct.

SDCM / MacAdam Ellipse Standard Deviation Colour Matching (SDCM), or MacAdam Ellipse, is a crucial LED metric defining color consistency between light sources. It measures how closely LEDs match a target color, with lower values indicating higher quality, greater uniformity, and less noticeable color differences to the human eye.

Steps Explained: 1-3 SDCM (3-step): Excellent consistency; used for high-end applications, retail, and hospitality where uniformity is critical.

3-5 SDCM: Standard for general interior lighting, where slight, mostly unnoticeable variations are acceptable. 5-7+ SDCM: Suitable for outdoor or architectural lighting with lower color uniformity requirements.

Measurement: Defines an area (ellipse) on a chromaticity chart; the smaller the ellipse (fewer steps), the more uniform the light.

Choosing a lower SDCM value ensures a consistent, professional appearance across all fixtures in a lighting installation.

CRI R9 R9 represents how well a light source renders strong red colors. Scale: 0 to 100, where higher values indicate better rendering of reds. Importance: Red is a critical color in many applications (e.g., skin tones, food presentation, retail, healthcare).

Since the color red is important for the human eye to see in nearly everything from clothing to food to artwork a high CRI combined with a high R9 value creates the most vivid representation of the actual color

TM-21 TM-21 is the industry standard for projecting the long-term lumen maintenance (lifespan) of LED light sources (packages, arrays, or modules) based on data gathered from LM-80 testing. It extrapolates short-term test data to estimate when light output drops below a usable level (e.g. L70)

LM-80 LM-80 is a standard that defines how the lumen output and colour shift of LEDs should be measured over time and at different temperatures.

The full name of the latest version of this standard is "IES LM-80-20 Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules"

LM-80 is concerned with measuring two of the most important aspects of LED quality, Lumen depreciation and colour shift.

LM-79 LM-79 is an approved Method of Optical and Electrical Measurements of Solid State Lighting Products. This is an industry-standard method established by the Illuminating Engineering Society (IES) for evaluating the performance of LED lighting products. It is a critical, snapshot-in-time test, typically used for the entire luminaire (fixture) rather than just the individual LED chips.

Conditions of Sale

1. INTERPRETATION

- 1.1 The definitions and rules of interpretation in this condition apply in these conditions.
Customer: the person, firm or company who purchases the Goods from the Company.
Company: Spectre Lighting Limited
Contract: any contract between the Company and the Customer for the sale and purchase of the Goods, incorporating these conditions.
Delivery Point: the place where delivery of the Goods is to take place under condition 4.
Goods: any goods agreed in the Contract to be supplied to the Customer by the Company (including any part or parts of them).
A reference to a law is a reference to it as it is in force for the time being taking account of any amendment, extension, application or re-enactment and includes any subordinate legislation for the time being in force made under it.
- 1.2 Words in the singular include the plural and in the plural include the singular.
- 1.3 A reference to one gender includes a reference to the other gender.
- 1.4 Condition headings do not affect the interpretation of these conditions.

2. APPLICATION OF TERMS

- 2.1 Subject to any variation under condition 2.3 the Contract shall be on these conditions to the exclusion of all other terms and conditions (including any terms or conditions which the Customer purports to apply under any purchase order, confirmation of order, specification or other document).
- 2.2 No terms or conditions endorsed on, delivered with or contained in the Customer's purchase order, confirmation of order, specification or other document shall form part of the Contract simply because of such document being referred to in the Contract.
- 2.3 These conditions apply to all the Company's sales and any variation to these conditions and any representations about the Goods shall have no effect unless expressly agreed in writing and signed by a duly authorised officer of the Company. The Customer acknowledges that it has not relied on any statement, promise or representation made or given by or on behalf of the Company which is not set out in the Contract. Nothing in this condition shall exclude or limit the Company's liability for fraudulent misrepresentation.
- 2.4 Each order for Goods by the Customer from the Company shall be deemed to be an offer by the customer to buy goods subject to these conditions.
- 2.5 No order placed by the Customer shall be deemed to be accepted by the Company until the Company delivers the Goods to the Customer.
- 2.6 The Customer shall ensure that the terms of its order and any applicable specification are complete and accurate and in writing.
- 2.7 Any quotation is valid for a period of 30 days only from its date, provided that the Company has not previously withdrawn it.

3. DESCRIPTION

All samples, drawings, descriptive matter, specifications and advertising issued by the Company and any descriptions or illustrations contained in the Company's catalogues or brochures are issued or published for the sole purpose of giving an approximate idea of the Goods described in them. They shall not form part of the Contract, and this is not a sale by sample.

4. DELIVERY

- 4.1 Unless otherwise agreed in writing by the Company, delivery of the Goods shall take place at the Customer's place of business unless the Goods are collected by the Customer when delivery shall take place at the Company's place of business.
- 4.2 Any dates specified by the Company for delivery of the Goods are intended to be an estimate and time for delivery shall not be made of the essence by notice. If no dates are so specified, delivery shall be within a reasonable time.
- 4.3 Subject to the other provisions of these conditions the Company shall not be liable for any direct, indirect or consequential loss (all three of which terms include, without limitation, pure economic loss, loss of profits, loss of business, depletion of goodwill and similar loss), costs, damages, charges or expenses caused directly or indirectly by any delay in the delivery of the Goods (even if caused by the Company's negligence), nor shall any delay entitle the Customer to terminate or rescind the Contract unless such delay exceeds 90 days. The Customer shall provide at the Delivery Point and at its expense adequate and appropriate equipment and manual labour for loading the Goods.
- 4.4 The Company may deliver the Goods by separate instalments. Each separate instalment shall be invoiced and paid for in accordance with the provisions of the Contract.
- 4.5 Each instalment shall be a separate Contract and no cancellation or termination of any one Contract relating to an instalment shall entitle the Customer to repudiate or cancel any other Contract or instalment.

5. NON-DELIVERY

- 5.1 The quantity of any consignment of Goods as recorded by the Company on despatch from the Company's place of business shall be conclusive evidence of the quantity received by the Customer on delivery unless the Customer can provide conclusive evidence proving the contrary.
- 5.2 The Company shall not be liable for any non-delivery of Goods (including shortage in quantity of Goods delivered) (even if caused by the Company's negligence) unless the Customer gives written notice to the Company of the non-delivery or shortage in quantity within three days of the date when the Goods would in the ordinary course of events have been received or in the case of a shortfall in quantity the remaining Goods have been received.

- 5.3 Any liability of the Company in relation to this clause 5 shall be limited to replacing the non-delivered Goods within a reasonable time or issuing a credit note at the pro rata Contract rate against any invoice raised for such Goods.

6. RISK/TITLE

- 6.1 The Goods are at the risk of the Customer from the time of delivery.
- 6.2 Ownership of the Goods shall not pass to the Customer until the Company has received in full (in cash or cleared funds) all sums due to it in respect of:
- (a) the Goods; and
- (b) all other sums which are or which become due to the Company from the Customer on any account.
- 6.3 Until ownership of the Goods has passed to the Customer, the Customer shall:
- (a) hold the Goods on a fiduciary basis as the Company's bailee;
- (b) store the Goods (at no cost to the Company) separately from all other goods of the Customer or any third party in such a way that they remain readily identifiable as the Company's property;
- (c) not destroy, deface or obscure any identifying mark or packaging on or relating to the Goods; and
- (d) maintain the Goods in satisfactory condition and keep them insured on the Company's behalf for their full price against all risks to the reasonable satisfaction of the Company. On request the Customer shall produce the policy of insurance to the Company.
- 6.4 The Customer's right to possession of the Goods shall terminate immediately if:
- (a) the Customer has a bankruptcy order made against him or makes an arrangement or composition with his creditors, or otherwise takes the benefit of any statutory provision for the time being in force for the relief of insolvent debtors, or (being a body corporate) convenes a meeting of creditors (whether formal or informal), or enters into liquidation (whether voluntary or compulsory) except a solvent voluntary liquidation for the purpose only of reconstruction or amalgamation, or has a receiver and/or manager, administrator or administrative receiver appointed of its undertaking or any part thereof, or documents are filed with the court for the appointment of an administrator of the Customer or notice of intention to appoint an administrator is given by the Customer or its directors or by a qualifying floating charge holder (as defined in paragraph 15 of Schedule B1 to the Insolvency (Northern Ireland) Order 2005), or a resolution is passed or a petition presented to any court for the winding-up of the Customer or for the granting of an administration order in respect of the Customer, or any proceedings are commenced relating to the insolvency or possible insolvency of the Customer; or
- (b) the Customer suffers or allows any execution, whether legal or equitable, to be levied on his/its property or obtained against him/it, or fails to observe or perform any of his/its obligations under the Contract or any other contract between the Company and the Customer, or is unable to pay its debts within the meaning of article 103 of the Insolvency (Northern Ireland) Order 1989 or the Customer ceases to trade; or
- (c) the Customer encumbers or in any way charges any of the Goods
- 6.5 The Company shall be entitled to recover payment for the Goods notwithstanding that ownership of any of the Goods has not passed from the Company.
- 6.6 The Customer grants the Company, its agents and employees an irrevocable licence at any time to enter any premises where the Goods are or may be stored in order to inspect them, or, where the Customer's right to possession has terminated, to recover them.
- 6.7 Where the Company is unable to determine whether any Goods are the goods in respect of which the Customer's right to possession has terminated, the Customer shall be deemed to have sold all goods of the kind sold by the Company to the Customer in the order in which they were invoiced to the Customer.
- 6.8 On termination of the Contract, howsoever caused, the Company's (but not the Customer's) rights contained in this condition 6 shall remain in effect.

7. PRICE

- 7.1 Unless otherwise agreed by the Company in writing, the price for the Goods shall be the price set out in the Company's price list published on the date of delivery or deemed delivery.
- 7.2 The price for the Goods shall be exclusive of any value added tax and all costs or charges in relation to packaging, loading, unloading, carriage and insurance, all of which amounts the Customer shall pay in addition when it is due to pay for the Goods.

8. PAYMENT

- 8.1 Subject to condition 8.4 payment of the price for the Goods is due in full within 30 days EOM of the date of invoice.
- 8.2 Time for payment shall be of the essence.
- 8.3 No payment shall be deemed to have been received until the Company has received cleared funds.
- 8.4 All payments payable to the Company under the Contract shall become due immediately on its termination despite any other provision.
- 8.5 The Customer shall make all payments due under the Contract in full without any deduction whether by way of set-off, counterclaim, discount, abatement or otherwise unless the Customer has a valid court order requiring an amount equal to such deduction to be paid by the Company to the Customer.
- 8.6 If the Customer fails to pay the Company any sum due pursuant to the Contract, the Company reserves the right to claim interest under the provisions of the Late Payment of Commercial Debts (Interest) Act 1998.

9. **QUALITY**

- 9.1 The Company warrants that (subject to the other provisions of these conditions) on delivery and for a period of 12 months from the date of delivery the Goods shall be of satisfactory quality within the meaning of the Sale of Goods Act 1979
- 9.2 The Company shall not be liable for a breach of the warranty in condition 9.1 unless:
- (a) the Customer gives written notice of the defect to the Company, and, if the defect is as a result of damage in transit to the carrier, within 3 days of the time when the Customer discovers or ought to have discovered the defect; and
- (b) the Company is given a reasonable opportunity after receiving the notice of examining such Goods and the Customer (if asked to do so by the Company) returns such Goods to the Company's place of business at the Company's cost for the examination to take place there.
- 9.3 The Company shall not be liable for a breach of the warranty in 9.1 if:
- (a) the Customer makes any further use of such Goods after giving such notice; or
- (b) the defect arises because the Customer failed to follow the Company's oral or written instructions as to the storage, installation, commissioning, use or maintenance of the Goods or (if there are none) good trade practice; or
- (c) the Customer alters or repairs such Goods without the written consent of the Company.
- 9.4 Subject to condition 9.2 and 9.3, if any of the Goods do not conform with the warranty in condition 9.1 the Company shall at its option repair or replace such Goods (or the defective part) or refund the price of such Goods at the pro rata Contract rate provided that, if the Company so requests, the Customer shall, at the Company's expense, return the Goods or the part of such Goods which is defective to the Company.
- 9.5 If the Company complies with condition 9.4 it shall have no further liability for a breach of the warranty in condition 9.1 in respect of such Goods.
- 9.6 Any Goods replaced shall belong to the Company and any repaired or replacement Goods shall be guaranteed on these terms for the unexpired portion of the 12-month period.

10. **HEALTH AND SAFETY**

- All goods are supplied by the Company to the Buyer with appropriate fitting and other instructions relating to the fitting and installation of Goods. Certain goods are supplied accompanied by written recommendation from the Company that they should only be fitted or installed by expert and skilled workers and it shall be the responsibility of the Buyer to ensure that where Goods are sold on to a third party they are accompanied by all appropriate safety and fitting instructions.
- 10.1 Where the Buyer fits and install the Goods itself it shall ensure that the contents of all the safety and fitting instructions are specifically drawn to the attention of its employees.
- 10.2 The Buyer hereby undertakes to take such measures as are communicated in writing to the Buyer by the Company and to take such other steps as are sufficient to ensure so far as is reasonably practicable that the Goods will at all times be safe and without risk to health when properly used and the Goods shall not be regarded as properly used when they are used without regard to any relevant information or advice relating to their use which is communicated to the Buyer by the Company.
- 10.3 The Buyer shall indemnify and keep indemnified the Company in respect of all claims, actions, proceedings, costs, expenses, loss or damage (whether direct, indirect, economic or consequential) including without prejudice to the generality hereof any monetary penalty or fine in respect of or in connection with the Goods arising out of any one or more of the following:
- (a) under the Health and Safety at work Act 1974 as amended or any regulations orders or directions made there under.
- (b) resulting from any breach of the Buyer's obligations under this clause 7.
- 10.4 (c) under the Consumer Protection Act 1987 or any statutory replacement thereof in respect of Goods which were not defective at the time when they were
- 10.5 supplied to the Buyer.

11. **LIMITATION OF LIABILITY**

- 11.1 All warranties, conditions and other terms implied by statute or common law (save for the conditions implied by section 12 of the Sale of Goods Act 1979) are, to the fullest extent permitted by law, excluded from the Contract.
- 11.2 Nothing in these conditions excludes or limits the liability of the Company:
- (a) for death or personal injury caused by the Company's negligence; or
- (b) for any matter which it would be illegal for the Company to exclude or attempt to exclude its liability; or
- (c) for fraud or fraudulent misrepresentation.
- 11.3 Subject to condition 10.1:
- (a) the Company's total liability in contract, tort (including negligence or breach of statutory duty), misrepresentation, restitution or otherwise, arising in connection with the performance or contemplated performance of the Contract shall be limited to the Contract price; and
- (b) the Company shall not be liable to the Customer for loss of profit, loss of business, or depletion of goodwill in each case whether direct, indirect or consequential, or any claims for consequential compensation whatsoever (howsoever caused) which arise out of or in connection with the Contract.

12. **TERMINATION**

- If any Insolvency Event occurs in respect of the Buyer, or any event analogous to an Insolvency Event occurs in respect of the Buyer in any jurisdiction in which it is
- 12.1 situate, or if the Buyer shall commit any breach of any part of the Contract, the Company may, without prejudice to its rights and remedies under these conditions, stop
- 12.2 all Goods in transit and suspend further deliveries and by notice to the Buyer may terminate the Contract immediately.

13. **ASSIGNMENT**

- 13.1 The Company may assign the Contract or any part of it to any person, firm or company.
- 13.2 The Customer shall not be entitled to assign the Contract or any part of it without the prior written consent of the Company.

14. **FORCE MAJEURE**

- The Company reserves the right to defer the date of delivery or to cancel the Contract or reduce the volume of the Goods ordered by the Customer (without liability to the Customer) if it is prevented from or delayed in the carrying on of its business due to circumstances beyond the reasonable control of the Company including, without limitation, acts of God, governmental actions, war or national emergency, acts of terrorism, protests, riot, civil commotion, fire, explosion, flood, epidemic, lock-outs, strikes or other labour disputes (whether or not relating to either party's workforce), or restraints or delays affecting carriers or inability or delay in obtaining supplies of adequate or suitable materials, provided that, if the event in question continues for a continuous period in excess of 90 days, the Customer shall be entitled to give notice in writing to the Company to terminate the Contract.

15. **GENERAL**

- 15.1 Each right or remedy of the Company under the Contract is without prejudice to any other right or remedy of the Company whether under the Contract or not.
- 15.2 If any provision of the Contract is found by any court, tribunal or administrative body of competent jurisdiction to be wholly or partly illegal, invalid, void, voidable, unenforceable or unreasonable it shall to the extent of such illegality, invalidity, voidness, voidability, unenforceability or unreasonableness be deemed severable and the remaining provisions of the Contract and the remainder of such provision shall continue in full force and effect.
- 15.3 Failure or delay by the Company in enforcing or partially enforcing any provision of the Contract shall not be construed as a waiver of any of its rights under the Contract
- 15.4 Any waiver by the Company of any breach of, or any default under, any provision of the Contract by the Customer shall not be deemed a waiver of any subsequent breach or default and shall in no way affect the other terms of the Contract.
- 15.5 The parties to the Contract do not intend that any term of the Contract shall be enforceable by virtue of the Contracts (Rights of Third Parties) Act 1999 by any person that is not a party to it
- 15.6 The formation, existence, construction, performance, validity and all aspects of the Contract shall be governed by English law, and the parties submit to the exclusive jurisdiction of the English courts
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- 15.6 The formation, existence, construction, performance, validity and all aspects of the Contract shall be governed by English law, and the parties submit to the exclusive jurisdiction of the English courts

16. **COMMUNICATIONS**

- 16.1 All communications between the parties about the Contract shall be in writing and delivered by hand or sent by pre-paid first-class post or sent by e-mail:
- (a) (in case of communications to the Company) to its registered office and copied (if different from the Company's principal place of business as shown on the invoice rendered by the Company for the Goods) to said principal place of business or such changed address as shall be notified to the Customer by the Company; or
- (b) (in the case of the communications to the Customer) to the registered office of the addressee (if it is a company) or (in any other case) to any address of the Customer set out in any document which forms part of the Contract or such other address as shall be notified to the Company by the Customer
- 16.2 Communications shall be deemed to have been received:
- (a) if sent by pre-paid first-class post, two days (excluding Saturdays, Sundays and bank and public holidays) after posting (exclusive of the day of posting); or
- (b) if delivered by hand, on the day of delivery or
- (c) if sent by email on a working day prior to 4.00 pm, at the time of transmission and otherwise the next working day.

Product Code	Page	Product Code	Page	Product Code	Page	Product Code	Page	Product Code	Page		
S-AB-125/40/B	18-19	S-DC-DL/GU10/CH	16-17	S-FN-12/RD/CTS/EM3/B	60-61	S-IB-XC/GR	88-89	S-JX-S3P/TBMK/B	34-35	S-LX-5/CTS/W/EM3	82-83
S-AB-125/40/W	18-19	S-DC-DL/GU10/W	16-17	S-FN-12/RD/CTS/EM3/W	60-61	S-IB-XC/W	88-89	S-JX-S3P/TBMK/W	34-35	S-LX-5X5A/5CH/C	51-51
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S-AB-125/R/W	18-19	S-DC-DLT/GU10/CH	16-17	S-FN-18/RD/CTS/EM3/B	60-61	S-IB-YC/W	88-89	S-JX-S3P/TC/R/B	34-35	S-LX-C/10/SC/E	46-46
S-AB-150/40/B	18-19	S-DC-DLT/GU10/W	16-17	S-FN-18/RD/CTS/EM3/W	60-61	S-JX1-15/40/B	32-33	S-JX-S3P/TC/R/W	34-35	S-LX-C/10/TL/E	46-46
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S-AB-150/R/B	18-19	S-DR-15/24V/I	54-55	S-FN-25/RD/CTS/B	60-61	S-JX1-25/40/B	32-33	S-JX-S3P/XC/R/W	34-35	S-LX-C/8/ML/I	46-46
S-AB-150/R/CH	18-19	S-DR-180/24V/I	54-55	S-FN-25/RD/CTS/W	60-61	S-JX1-25/40/W	32-33	S-KN-EM3/B	114-115	S-LX-C/8/SC/I	46-46
S-AB-150/R/W	18-19	S-DR-20/24V/I	54-55	S-FN-25/RD/EL/B	60-61	S-JX1-30/40/B	32-33	S-KN-EM3/W	114-115	S-LX-C/8/TL/I	46-46
S-AB-80/40/B	18-19	S-DR-30/24V/I	54-55	S-FN-25/RD/EL/W	60-61	S-JX1-32/40/W	32-33	S-LL-4/CTS	100-101	S-LX-C10/10/TW/E	36-37
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S-AB-80/R/B	18-19	S-DR-60/24V/I	54-55	S-GL-2W/EM3/CL/W	116-117	S-JX1-38/40/W	32-33	S-LL-4/CTS/EM3/MS	100-101	S-LX-C10/2/TW/E	36-37
S-AB-80/R/CH	18-19	S-DR-75/24V/I	54-55	S-GL-2W/EM3/OL/B	116-117	S-JX-R3P/1MTR/B	34-35	S-LL-4/CTS/MS	100-101	S-LX-C10/2/TW/I	36-37
S-AB-80/R/W	18-19	S-DR-90/24V/I	54-55	S-GL-2W/EM3/OL/W	116-117	S-JX-R3P/1MTR/W	34-35	S-LL-5/CTS	100-101	S-LX-C10/5/TW/E	36-37
S-AD-168/CTS/W	28-29	S-EX-23/CTS/B	22-23	S-GL-3W/EM3/CL/B	116-117	S-JX-R3P/2MTR/B	34-35	S-LL-5/CTS/EM3	100-101	S-LX-C10/5/TW/I	36-37
S-AD-221/CTS/W	28-29	S-EX-23/CTS/W	22-23	S-GL-3W/EM3/CL/W	116-117	S-JX-R3P/2MTR/W	34-35	S-LL-5/CTS/EM3/MS	100-101	S-LX-C10/50/TW/E	36-37
S-AD-240/CTS/W	28-29	S-EX-23/LO/CTS/B	22-23	S-GL-3W/EM3/OL/B	116-117	S-JX-R3P/MK	34-35	S-LL-5/CTS/MS	100-101	S-LX-C10/50/TW/I	36-37
S-AD-296/CTS/W	28-29	S-EX-23/LO/CTS/W	22-23	S-GL-3W/EM3/OL/W	116-117	S-JX-S3P/1MTR/B	34-35	S-LL-6/CTS	100-101	S-LX-C15/10/RGB/E	38-39
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S-AK-WL/2X18/4/B	66-67	S-FL-14/WP/40/EM3/PC/B	70-71	S-IB-120C/B	86-87	S-JX-S3P/2MTR/W	34-35	S-LL-6/CTS/MS	100-101	S-LX-C15/2/RGB/I	38-39
S-AK-WL/2X20/4/B	66-67	S-FL-14/WP/40/PC/B	70-71	S-IB-120C/GR	86-87	S-JX-S3P/ALC/L/B	34-35	S-LM-DL/145/CTS/W	26-27	S-LX-C15/5/RGB/E	38-39
S-AU-430/CTS/B	80-81	S-FL-2/CTS	102-103	S-IB-120C/W	86-87	S-JX-S3P/ALC/L/W	34-35	S-LM-DL/190/CTS/W	26-27	S-LX-C15/5/RGB/I	38-39
S-AU-430/CTS/EM3/B	80-81	S-FL-25/WP/40/B	70-71	S-IB-4/CTS/B	86-87	S-JX-S3P/EC/B	34-35	S-LM-DL/235/CTS/W	26-27	S-LX-C15/50/RGB/E	38-39
S-AU-430/CTS/EM3/MS/B	80-81	S-FL-25/WP/40/EM3/B	70-71	S-IB-4/CTS/GR	86-87	S-JX-S3P/EC/W	34-35	S-LX1-2XGU10/B	62-63	S-LX-C15/50/RGB/I	38-39
S-AU-430/CTS/EM3/MS/W	80-81	S-FL-25/WP/40/EM3/PC/B	70-71	S-IB-4/CTS/UL	88-89	S-JX-S3P/FC/B	34-35	S-LX1-2XGU10/GR	62-63	S-LX-C16/10/RGBTW/E	40-41
S-AU-430/CTS/EM3/W	80-81	S-FL-25/WP/40/PC/B	70-71	S-IB-4/CTS/W	86-87	S-JX-S3P/FC/W	34-35	S-LX1-2XGU10/W	62-63	S-LX-C16/10/RGBTW/I	40-41
S-AU-430/CTS/MS/B	80-81	S-FL-4/CTS	102-103	S-IB-5/CTS/B	86-87	S-JX-S3P/FXC/B	34-35	S-LX1-GU10/B	62-63	S-LX-C16/2/RGBTW/E	40-41
S-AU-430/CTS/MS/W	80-81	S-FL-4/CTS/EM3	102-103	S-IB-5/CTS/GR	86-87	S-JX-S3P/FXC/W	34-35	S-LX1-GU10/GR	62-63	S-LX-C16/2/RGBTW/I	40-41
S-AU-430/CTS/W	80-81	S-FL-40/WP/14/30/LEDB	70-71	S-IB-5/CTS/UL	88-89	S-JX-S3P/LC/B	34-35	S-LX1-GU10/W	62-63	S-LX-C16/5/RGBTW/E	40-41
S-CV-EM3/B	122-123	S-FL-40/WP/25/30/LEDB	70-71	S-IB-5/CTS/W	86-87	S-JX-S3P/LC/W	34-35	S-LX2-2XGU10/B	64-65	S-LX-C16/5/RGBTW/I	40-41
S-CV-EM3/W	122-123	S-FL-40/WP/40/30/LEDB	70-71	S-IB-C	88-89	S-JX-S3P/LE/L/B	34-35	S-LX2-2XGU10/GR	64-65	S-LX-C16/50/RGBTW/E	40-41
S-CV-LAD	122-123	S-FL-40/WP/40/B	70-71	S-IB-LC/B	88-89	S-JX-S3P/LE/L/W	34-35	S-LX2-2XGU10/W	64-65	S-LX-C16/50/RGBTW/I	40-41
S-CV-LARL	122-123	S-FL-40/WP/40/EM3/B	70-71	S-IB-LC/GR	88-89	S-JX-S3P/LE/R/B	34-35	S-LX2-GU10/B	64-65	S-LX-C4/10/27/E	42-43
S-CV-LAU	122-123	S-FL-40/WP/40/EM3/PC/B	70-71	S-IB-LC/W	88-89	S-JX-S3P/LE/R/W	34-35	S-LX2-GU10/GR	64-65	S-LX-C4/10/27/I	42-43
S-DC-BDL/GU10/B	16-17	S-FL-40/WP/40/PC/B	70-71	S-IB-SC	88-89	S-JX-S3P/SC/B	34-35	S-LX2-GU10/W	64-65	S-LX-C4/10/30/E	42-43
S-DC-BDL/GU10/BC	16-17	S-FL-5/CTS	102-103	S-IB-SK	88-89	S-JX-S3P/SC/W	34-35	S-LX-2X8A/2CH/C	46-46	S-LX-C4/10/30/I	42-43
S-DC-BDL/GU10/CH	16-17	S-FL-5/CTS/EM3	102-103	S-IB-TC/B	88-89	S-JX-S3P/SK/B	34-35	S-LX-4/CTS/W	82-83	S-LX-C4/10/40/E	42-43
S-DC-BDL/GU10/W	16-17	S-FL-6/CTS	102-103	S-IB-TC/GR	88-89	S-JX-S3P/SK/W	34-35	S-LX-4/CTS/W/EM3	82-83	S-LX-C4/10/40/I	42-43
S-DC-DL/GU10/B	16-17	S-FL-6/CTS/EM3	102-103	S-IB-TC/W	88-89	S-JX-S3P/SKC/B	34-35	S-LX-4X5A/4CH/C	82-83	S-LX-C4/10/65/E	42-43
S-DC-DL/GU10/BC	16-17	S-FN-12/RD/CTS/B	60-61	S-IB-XC/B	88-89	S-JX-S3P/SKC/W	34-35	S-LX-5/CTS/W	82-83	S-LX-C4/10/65/I	42-43

Product Code	Page	Product Code	Page	Product Code	Page	Product Code	Page	Product Code	Page		
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S-LX-C4/2/27/I	42-43	S-LX-C8/5/30/I	44-45	S-LX-RP/1M/B	52-52	S-ND/SA-76/PMA	94-97	S-PR-HB/8/EM3	104-105	S-VR-B/25/100/CTS	74-75
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S-LX-C4/2/30/I	42-43	S-LX-C8/5/40/I	44-45	S-LX-RP/1M/W	52-52	S-ND-PF/320/40/B	96-97	S-PRI-WP/CTS/EM3/B	72-73	S-VR-B/HRMK	74-75
S-LX-C4/2/40/E	42-43	S-LX-C8/5/65/E	44-45	S-LX-RP/2M/B	52-52	S-NO-EM3/B	120-121	S-PRI-WP/CTS/EM3/PC/B	72-73		
S-LX-C4/2/40/I	42-43	S-LX-C8/5/65/I	44-45	S-LX-RP/2M/SI	52-52	S-NO-EM3/W	120-121	S-PRI-WP/CTS/PC/B	72-73		
S-LX-C4/2/65/E	42-43	S-LX-C8/50/27/E	44-45	S-LX-RP/2M/W	52-52	S-NO-LAD	120-121	S-PR-MS/IP65	104-105		
S-LX-C4/2/65/I	42-43	S-LX-C8/50/27/I	44-45	S-LX-SP1/1M/B	52-52	S-NO-LAL	120-121	S-PR-PIR/IP65	104-105		
S-LX-C4/5/27/E	42-43	S-LX-C8/50/30/E	44-45	S-LX-SP1/1M/SI	52-52	S-NO-LAR	120-121	S-PR-RC	104-105		
S-LX-C4/5/27/I	42-43	S-LX-C8/50/30/I	44-45	S-LX-SP1/1M/W	52-52	S-NO-LAU	120-121	S-PR-SBR	104-105		
S-LX-C4/5/30/E	42-43	S-LX-C8/50/40/E	44-45	S-LX-SP1/2M/B	52-52	S-NX-WL/10/CTS/B	68-69	S-PU-10/40/B	92-93		
S-LX-C4/5/30/I	42-43	S-LX-C8/50/40/I	44-45	S-LX-SP1/2M/SI	53-53	S-NX-WL/10/CTS/GR	68-69	S-PU-10/40/PIR/B	92-93		
S-LX-C4/5/40/E	42-43	S-LX-C8/50/65/E	44-45	S-LX-SP1/2M/W	53-53	S-NX-WL/10/CTS/W	68-69	S-PU-20/40/B	92-93		
S-LX-C4/5/40/I	42-43	S-LX-C8/50/65/I	44-45	S-LX-SP2/1M/B	53-53	S-NX-WL/2X4/CTS/B	68-69	S-PU-20/40/PIR/B	92-93		
S-LX-C4/5/65/E	42-43	S-LX-CTW/10/CL/I	46-46	S-LX-SP2/1M/SI	53-53	S-NX-WL/2X4/CTS/GR	68-69	S-PU-30/40/B	92-93		
S-LX-C4/5/65/I	42-43	S-LX-CTW/10/ML/I	46-46	S-LX-SP2/1M/W	53-53	S-NX-WL/2X4/CTS/W	68-69	S-PU-30/40/PIR/B	92-93		
S-LX-C4/50/27/E	42-43	S-LX-CTW/10/SC/I	46-46	S-LX-SP2/2M/B	53-53	S-NX-WL/2X9/CTS/B	68-69	S-PU-50/40/B	92-93		
S-LX-C4/50/27/I	42-43	S-LX-CTW/10/TL/I	47-47	S-LX-SP2/2M/SI	53-53	S-NX-WL/2X9/CTS/GR	68-69	S-PU-50/40/PIR/B	92-93		
S-LX-C4/50/30/E	42-43	S-LX-CTW/12/CL/E	47-47	S-LX-SP2/2M/W	53-53	S-NX-WL/2X9/CTS/W	68-69	S-PXX-28/CTS/EM3/W	58-59		
S-LX-C4/50/30/I	42-43	S-LX-CTW/12/ML/E	47-47	S-LX-SP3/1M/B	53-53	S-NX-WL/5/CTS/B	68-69	S-PXX-28/CTS/W	58-59		
S-LX-C4/50/40/E	42-43	S-LX-CTW/12/SC/E	47-47	S-LX-SP3/1M/SI	53-53	S-NX-WL/5/CTS/GR	68-69	S-PXX-32/CTS/EM3/W	58-59		
S-LX-C4/50/40/I	42-43	S-LX-CTW/12/TL/E	47-47	S-LX-SP3/1M/W	53-53	S-NX-WL/5/CTS/W	68-69	S-PXX-32/CTS/W	58-59		
S-LX-C4/50/65/E	42-43	S-LX-DIM/1/R	50-50	S-LX-SP3/2M/B	53-53	S-PA-EM3/B	124-125	S-RF-4/CTS/W	84-85		
S-LX-C4/50/65/I	42-43	S-LX-DIM/4/R	50-50	S-LX-SP3/2M/SI	53-53	S-PA-EM3/W	124-125	S-RF-5/CTS/W	84-85		
S-LX-C8/10/27/E	44-45	S-LX-RGB/1/R	50-50	S-LX-SP3/2M/W	53-53	S-PA-LAD	124-125	S-SA-100/40/GR	94-95		
S-LX-C8/10/27/I	44-45	S-LX-RGB/10/CL/I	47-47	S-LX-TW/1/R	50-51	S-PA-LAL	124-125	S-SA-100/CB	94-95		
S-LX-C8/10/30/E	44-45	S-LX-RGB/10/ML/I	47-47	S-LX-TW/4/R	50-51	S-PA-LAR	124-125	S-SA-150/40/GR	94-95		
S-LX-C8/10/30/I	44-45	S-LX-RGB/10/SC/I	47-47	S-MI-235/CTS/B	30-31	S-PA-LAU	124-125	S-SA-150/CB	94-95		
S-LX-C8/10/40/E	44-45	S-LX-RGB/10/TL/I	47-47	S-MI-235/CTS/PIR/B	30-31	S-PH-145/CTS/W	20-21	S-SA-200/40/GR	94-95		
S-LX-C8/10/40/I	44-45	S-LX-RGB/12/CL/E	48-48	S-MI-235/CTS/PIR/W	30-31	S-PH-145/SK	20-21	S-SA-300/40/GR	94-95		
S-LX-C8/10/65/E	44-45	S-LX-RGB/12/ML/E	47-47	S-MI-235/CTS/W	30-31	S-PH-190/CTS/W	20-21	S-SA-400/40/GR	94-95		
S-LX-C8/10/65/I	44-45	S-LX-RGB/12/SC/E	47-47	S-MI-300/CTS/B	30-31	S-PH-190/SK	20-21	S-SA-50/40/GR	94-95		
S-LX-C8/2/27/E	44-45	S-LX-RGB/12/TL/E	48-48	S-MI-300/CTS/PIR/B	30-31	S-PH-228/CTS/W	20-21	S-SA-50/ORA	94-95		
S-LX-C8/2/27/I	44-45	S-LX-RGB/4/R	50-50	S-MI-300/CTS/PIR/W	30-31	S-PH-228/SK	20-21	S-TE-EM3/B	126-127		
S-LX-C8/2/30/E	44-45	S-LX-RGBTW/1/R	51-51	S-MI-300/CTS/W	30-31	S-PN-EM3/CL/B	118-119	S-TE-EM3/HO/B	126-127		
S-LX-C8/2/30/I	44-45	S-LX-RGBTW/12/CL/I	48-48	S-MPC1-EM3	108-109	S-PN-EM3/CL/W	118-119	S-TE-EM3/HO/W	126-127		
S-LX-C8/2/40/E	44-45	S-LX-RGBTW/12/ML/I	48-48	S-MPC1-MS	108-109	S-PN-EM3/OL/B	118-119	S-TE-EM3/W	126-127		
S-LX-C8/2/40/I	44-45	S-LX-RGBTW/12/SC/I	48-48	S-MPL1-EM3	108-109	S-PN-EM3/OL/W	118-119	S-VK-60V/EM3	112-113		
S-LX-C8/2/65/E	44-45	S-LX-RGBTW/14/CL/E	48-48	S-MPL1-MS	108-109	S-PR-100/40/B	104-105	S-VL-115/CTS/W	24-25		
S-LX-C8/2/65/I	44-45	S-LX-RGBTW/14/ML/E	48-48	S-MPL2-EM3	108-109	S-PR-150/40/B	104-105	S-VL-145/CTS/W	24-25		
S-LX-C8/5/27/E	44-45	S-LX-RGBTW/14/SC/E	48-48	S-MPL2-MS	108-109	S-PR-200/40/B	104-105	S-VL-190/CTS/W	24-25		
S-LX-C8/5/27/I	44-45	S-LX-RGBTW/14/TL/E	48-48	S-MPL3-EM3	108-109	S-PR-ALU/REF	104-105	S-VL-235/CTS/W	24-25		





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