



Educational Lighting Guide 2024

Manufacturers of quality lighting since 1920



British Electric Lamps Ltd
www.belllighting.co.uk



Education Lighting

Benefits of BELL LED lighting

Over recent years, LED lighting has become more and more prevalent. As technology has improved, LED lamps and fittings have become more efficient, and with these improvements legislation has been introduced to move manufacturers towards LED lighting.

With LMR80 and B10 credentials stated for many of the fittings within our catalogue which are best suited to an education setting, our customers can expect a maximum 20% lumen depreciation over the stated lifetime hours of our products, and a maximum failure rate of 10% for installed products over the same period.

Our product range has you covered, with fittings and lamps to suit a host of environments, and we have a comprehensive offer where educational lighting is concerned. From our Mentor LED CCT Batten, named in reference to the sector which it was designed to serve, to our Arial Plus Backlit High Output UGR<19 LED Panel, which is an exceptional option for any space which requires high uniformity and lighting levels.

How much can you save?

Switching from Fluorescent to LED lighting is a guaranteed way to save money and reduce emissions. Along with this, LED products require less maintenance post installation, and their energy cost is significantly lower than their outdated technology equivalents.

Cost savings are always installation and project dependent, and our Energy Saving Calculator tool which can be found on our website is an excellent starting point in determining the potential benefits of switching to LED. As an example of the level of savings on offer, we used two recent college projects to determine an estimated general cost and energy saving when upgrading to LED within an educational setting. On average, changing to BELL Lighting products resulted in a £30,000 annual saving, amounting to a 40,000kg CO₂ saving and a 175,000kWh energy saving.

With exceptional warranties, lifetime hours, and long-term support on offer, our customers can be assured that switching to educational LED lighting is a sound decision which can provide a host of benefits, from immediate costs, maintenance, and lighting quality, to a reduction in the impact which lighting has on the environment.



Lighting Design, a dedicated team of specialist engineers ready to help

Our team of professional lighting designers and engineers have over 50 years of experience in the lighting industry. We know the importance of good lighting design and the benefits a lighting engineer will bring to a project. Our lighting design service ensures correct light levels are achieved in compliance with current regulations.

Our specialised knowledge of lighting and lighting control systems provides a smooth hassle free process, delivering beautiful energy saving lighting solutions on time and on budget.



Working within the UK and internationally, the lighting team have established a reputation for designing a broad range of exciting projects of all sizes, from single rooms through to partnerships with multi-disciplined design teams on large infrastructure projects.

We are a responsive and fast moving team who can manage the complete lighting design process from concept through to the tender & supply

For all internal, external & emergency projects contact:

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Case Study

Rotherham College

Mark Lewis, Electrical Engineer at Lilleker Bros Ltd said "I was asked by the head of the Facilities Management team at Thomas Rotherham College to see what could be done in the canteen/break out area. Their lighting at the time was 34 x 70W HQI (2,380W) these were replaced with 9 x 180W LED Lowbay fittings (1,620W). The quality of the light was poor due to low light levels, it was also expensive to run with the added disadvantage of frequent lamp/ballast failures.

I contacted BELL who offered an LED Solution including; Lowbays, Aqua & Deco fittings which reduced the quantity of fittings, minimised the running costs, improved the light level and atmosphere. The Head of Rotherham College FM said he was "Over the moon with the result".

- **Over the life of the fittings Thomas Rotherham College could save £5376 in energy costs**
- **Energy Saving 34%**
- **Annual Energy Saving 2796kWh / Annual CO₂ Saving 1565kg / Annual Maintenance Saving £600**





Case Study

The Change Foundation Cricket Centre

The Change Foundation is an award-winning charity that uses sport to change the lives of marginalised young people. They deliver targeted long-term interventions for the most vulnerable young people through Coach Mentors with lived experience, providing regular sport, personalised mentoring and work-related opportunities.

A detailed lighting design scheme was compiled by the Power Plus Group Lighting Design Team, and BELL 150W Illumina Atlas High Bay's with the UGR Honeycomb lens was selected to be the perfect luminaire for the upgrade.

The 36 original fittings were replaced with 18 x 150w fittings. This reduced the rows of fittings to 2 which is a great advantage as there are only 2 lanes so the new fittings did not interfere with the netting installed between the lanes.

The real benefits were; less energy consumption, reduction in glare rating and an improvement in lux levels from 500lux to over 950lux. The combination of these factors means that the players can practice in safety with lighting that delivers high definition, high luminance, low glare and accurate colour rendering.

Annual Savings: £9419 / CO₂ 1468kg / Maintenance £600 / Energy Saving 32%







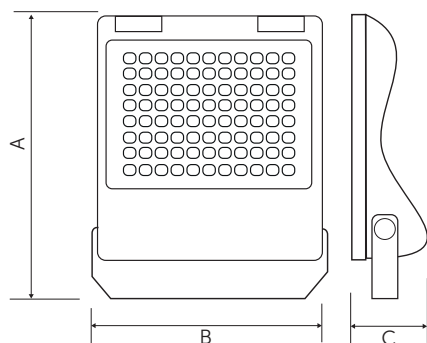
Asymmetric/Symmetric LED Floodlight

Designed and engineered in the UK specifically to meet the requirements for sports lighting and to reduce light pollution levels. The Skyline Virtus is a high specification floodlight, wattage switchable as standard with a 50,000 hour lifespan, 7 year warranty and 2 year on site warranty.

- Genuine replacement for 250/500/750W Metal Halide/Sodium Floodlight
- Wattage Switchable
- Perfect for sports, building facade, landscape, security & car park lighting
- Asymmetric distribution, low light pollution (Asymmetric version)
- 155 Lm/W
- Surge protected 10,000V
- Aerodynamic, streamlined design for reduced windage
- Fully encapsulated IP66 TUV certified driver
- Nichia GRT-V1 LED
- Long life 50,000 hours (L80 B10 @ 25°C)
- Robust construction, supplied with standard universal mounting bracket
- Supplied pre-flexed (1.5M)
- Air pressure equalisation feature to eliminate capillary effect



LMR80: Maximum 20% of lumen depreciation over rated hours. B10: Maximum 10% of fittings failure rate over rated hours



	50/75/100W	100/150/200W	100/225/300W
A	353mm	447mm	495mm
B	287mm	359mm	419mm
C	65mm	75mm	75mm

¹ Exceeds EU standard of 70 for Lumens Maintenance Ratio
² Exceeds EU standard of RA 80 for Colour Rendering Index
³ Subject to terms & conditions (Contact Customer Service)



Skylinevirtus

Technical Specification

Construction	Polyester coated die-cast LM6 Marine Grade aluminium & toughened safety glass
Driver	LiFud
LED Chip	Nichia GRT-V1
IP Rating	IP66
Operating Temp	-30°C to +35°C
Input Voltage	110 - 240V
Power Factor	> 0.9
CRI	80 - Exceeds EU standard of Ra 70 for Colour Rendering Index
LMR	80 - Exceeds EU standard of 70 for Lumens Maintenance Ratio
Windage/EPA	100W 0.067M ² / 200W 0.112M ² / 300W 0.144M ²
Weight	100W - 2.8Kg / 200W - 5.2Kg / 300W - 6.4Kg

Code	V	W	Description	Lm	Peak Intensity	Temp	Lm/W	Hours
11485	110-240	50/75/100	Skyline Virtus Switchable Asymmetric Floodlight	7700-15450	558 cd/klm @ 53°	4000K	152	50000
11486	110-240	50/75/100	Skyline Virtus Wattage Switchable Symmetric Floodlight	7500-15100	1400 cd/klm @ 13°	4000K	148	50000
11482	110-240	50/75/100	Skyline Virtus Wattage Switchable 30° Floodlight	7400-15950	3074 cd/klm @ 0°	4000K	157	50000
11489	110-240	100/150/200	Skyline Virtus Wattage Switchable Asymmetric Floodlight	15450-30300	518 cd/klm @ 58°	4000K	152	50000
11490	110-240	100/150/200	Skyline Virtus Wattage Switchable Symmetric Floodlight	15100-30050	1142 cd/klm @ 11°	4000K	148	50000
11483	110-240	100/150/200	Skyline Virtus Wattage Switchable 30° Floodlight	15950-30900	3086 cd/klm @ 0°	4000K	156	50000
11491	110-240	150/225/300	Skyline Virtus Wattage Switchable Asymmetric Floodlight	22400-46050	562 cd/klm @ 57°	4000K	154	50000
11492	110-240	150/225/300	Skyline Virtus Wattage Switchable Symmetric Floodlight	21850-45650	1311 cd/klm @ 10°	4000K	150	50000
11484	110-240	150/225/300	Skyline Virtus Wattage Switchable 30° Floodlight	23400-47800	2890 cd/klm @ 0°	4000K	158	50000

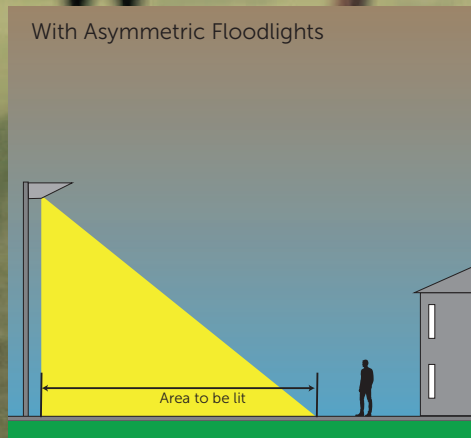
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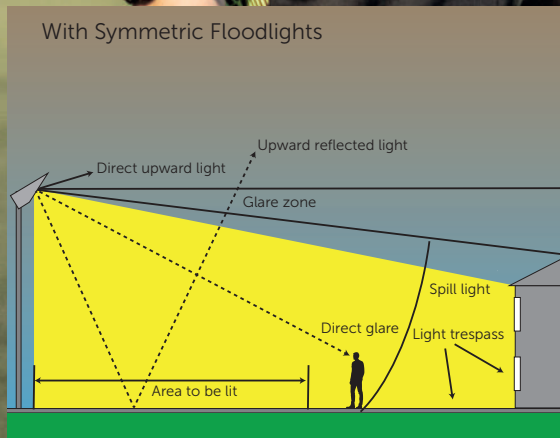
³ Subject to terms & conditions (Contact Customer Service)



With Asymmetric Floodlights



With Symmetric Floodlights







LED CCT Wallpack

Designed to be used where the aesthetics of the light fitting, along with a tough robust construction is needed. The fittings are IP65 and IK8 compliant, supplied complete with an opal diffuser for even light distribution. Available in emergency and non emergency versions.

- Genuine replacement for 70W Metal Halide & Sodium
- High impact polycarbonate construction
- 68% energy saving
- 30000 hours

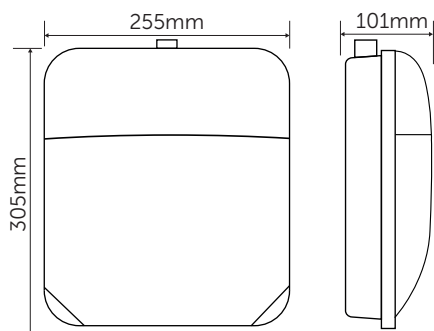
Options

- Photocell version
- Emergency / Emergency Photocell version



LMR80: Maximum 20% of lumen depreciation over rated hours.

B10: Maximum 10% of fittings failure rate over rated hours



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LED CCT Wallpack

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Technical Specification

Construction	Polycarbonate Base & Lens
Driver	BELL
LED Chip	Samsung
IP Rating	IP65
Operating Temp	-30°C to +35°C / Emergency version minimum temperature 0°C
Input Voltage	240V
Power Factor	> 0.9
CRI	80 - Exceeds EU standard of Ra 70 for Colour Rendering Index
LMR	80 - Exceeds EU standard of 70 for Lumens Maintenance Ratio

Code	V	W	Description	Lm	Lm/W	Beam Angle	Temp	Hours
11350	220-240	22	Muro CCT LED Wallpack	1600	72	120°	3000/4000K	30000
11351	220-240	22	Muro CCT LED Wallpack Emergency	1600	72	120°	3000/4000K	30000
11352	220-240	22	Muro CCT LED Wallpack Microwave Sensor	1600	72	120°	3000/4000K	30000
11353	220-240	22	Muro CCT LED Wallpack Photocell	1600	72	120°	3000/4000K	30000
11354	220-240	22	Muro CCT LED Wallpack Emergency, Microwave Sensor	1600	72	120°	3000/4000K	30000
11355	220-240	22	Muro CCT LED Wallpack - Emergency, Photocell	1600	72	120°	3000/4000K	30000

Emergency versions must be tested in line with the requirements of BS5266, failure to do so may effect battery life and warranty.

¹ Exceeds EU standard of 70 for Lumens Maintenance Ratio

² Exceeds EU standard of RA 70 for Colour Rendering Index

³ Subject to terms & conditions (Contact Customer Service)







LED Integrated CCT Anti Corrosive Batten

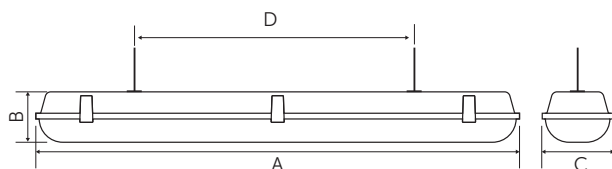
The Dura LED CCT Anti Corrosive Batten is part of one of BELL's flagship luminaire families. The Dura CCT combines the reliability of the Dura Batten with the added CCT & wattage switchable functionality. Plug in emergency packs, Microwave and PIR on/off sensors create a very stock friendly solution for wholesalers and contractors alike.

- The ideal replacement for Single/Twin Fluorescent T8 and T5 Fixtures
- Special high light transmission frosted polycarbonate diffuser for smooth uniform dimming
- Perfect for all commercial environments
- Tool-free termination
- Plug in accessories
- Stock friendly product
- Suitable for BESA Box mounting



LMR80: Maximum 20% of lumen depreciation over rated hours.

B10: Maximum 10% of fittings failure rate over rated hours



	A	B	C	D
20/40W 4' Batten	1263mm	90mm	90mm	900-955mm
25/50W 5' Batten	1530mm	90mm	90mm	1000-1055mm
30/60W 6' Batten	1828mm	90mm	90mm	1000-1055mm

W	Colour Temp (K) Selected	Lm
20	3000	2850
	4000	3000
	6000	2950
40	3000	5100
	4000	5550
	6000	5250
25	3000	3550
	4000	3800
	6000	3850
50	3000	6350
	4000	7000
	6000	6800
30	3000	4250
	4000	4500
	6000	4450
60	3000	7500
	4000	8150
	6000	7950



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LED Integrated CCT Anti Corrosive Batten

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Technical Specification	
Construction	Polycarbonate Body & lens
Driver	BELL
LED Chip	Samsung
IP Rating	IP65
Operating Temp	-30°C to +35°C / Emergency version minimum temperature -5°C
Input Voltage	220 - 240V
Power Factor	> 0.9
CRI	85 - Exceeds EU standard of Ra 80 for Colour Rendering Index
LMR	80 - Exceeds EU standard of 70 for Lumens Maintenance Ratio
L1A / L1B / L2A / L2B Compliant	Yes

¹ Exceeds EU standard of 70 for Lumens Maintenance Ratio

² Exceeds EU standard of RA 80 for Colour Rendering Index

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LED Integrated CCT Anti Corrosive Batten

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Code	W	Description	Lm	Temp	Hours
10275	20/40	Dura LED Anti Corrosive Batten - CCT, 1200mm (4ft)	2850-5550	3/4/6000K	50000
10276	25/50	Dura LED Anti Corrosive Batten - CCT, 1500mm (5ft)	3550-7000	3/4/6000K	50000
10277	30/60	Dura LED Anti Corrosive Batten - CCT, 1800mm (6ft)	4250-8150	3/4/6000K	50000
10281	-	Plug in Emergency Pack for CCT Battens	-	-	-
10282	-	Plug in Sensor On/Off for CCT Battens	-	-	-
10293	-	Plug in PIR for CCT Battens	-	-	-
10294	-	Remote Control for CCT Battens (PIR only)	-	-	-

PIR Max Operating Height 3.2m

Emergency versions must be tested in line with the requirements of BS5266, failure to do so may effect battery life and warranty





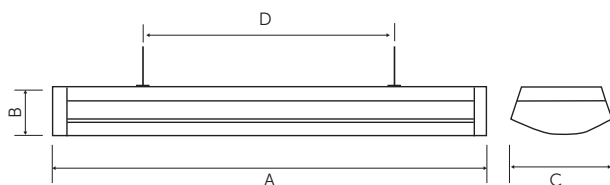
LED Integrated CCT UGR<19 Batten

The Mentor Wattage Switchable LED integrated CCT Batten is colour selectable with a choice of 3000K, 4000K or 6000K to suit your application. 36 in 1 fitting with plug-in emergency packs, Microwave and PIR on/off sensors available, along with a Dali Dimming version.

- The ideal replacement for Single/Twin Fluorescent T8 and T5 Fixtures
- Perfect for schools, universities & hospitals where a flexible wattage, selectable colour batten is required
- Suitable for food environments
- Special high light transmission frosted polycarbonate diffuser for smooth uniform lighting with reduced glare
- Tool-free termination
- Shatterproof
- Up to 140 Lm/W

LMR80: Maximum 20% of lumen depreciation over rated hours.

B10: Maximum 10% of fittings failure rate over rated hours



	A	B	C	D
4' Batten	1200mm	97mm	200mm	1000mm
5' Batten	1500mm	97mm	200mm	1300mm

W	Colour Temp (K) Selected	Lm
20	3000	2650
	4000	2800
	6000	2850
38	3000	4550
	4000	4800
	6000	4850
32 Dali Dim	3000	4100
	4000	4350
	6000	4400
42 Dali Dim	3000	5250
	4000	5550
	6000	5600
34	3000	4300
	4000	4550
	6000	4600
53	3000	6500
	4000	6900
	6000	6950
47 Dali Dim	3000	6100
	4000	6450
	6000	6500
55 Dali Dim	3000	7350
	4000	7800
	6000	7850





LED Wattage Switchable, Integrated CCT Batten

Technical Specification

Construction	Steel Body / Polycarbonate Diffuser
Driver	Tridonic
LED Chip	Samsung
IP Rating	IP40
Operating Temp	-30°C to +35°C / Emergency version minimum temperature -5°C
Input Voltage	220 - 240V
Power Factor	> 0.9
CRI	85 - Exceeds EU standard of Ra 80 for Colour Rendering Index
LMR	80 - Exceeds EU standard of 70 for Lumens Maintenance Ratio
L1A / L1B / L2A / L2B Compliant	Yes

Code	W	Description	Lm	Temp	Hours
10285	20/38	Mentor Wattage Switchable LED Batten CCT, 1200mm (4ft)	2650-4850	3/4/6000K	50000
10286	34/53	Mentor Wattage Switchable LED Batten CCT, 1500mm (5ft)	4300-6950	3/4/6000K	50000
10287	32/42	Mentor Wattage Switchable LED Batten CCT, Dali Dim, 1200mm (4ft)	4100-5600	3/4/6000K	50000
10288	47/55	Mentor Wattage Switchable LED Batten CCT, Dali Dim, 1500mm (5ft)	6100-7850	3/4/6000K	50000
10281	-	Plug in Emergency Pack for above	-		-
10282	-	Plug in Microwave Sensor On/Off for above	-		-
10293	-	Plug in On/Off PIR for above	-		-
10294	-	Remote Control for CCT Battens (PIR only)	-	-	-

Microwave Max Operating Height 3.2m

Emergency versions must be tested in line with the requirements of BS5266, failure to do so may effect battery life and warranty

¹ Exceeds EU standard of 70 for Lumens Maintenance Ratio

² Exceeds EU standard of RA 80 for Colour Rendering Index

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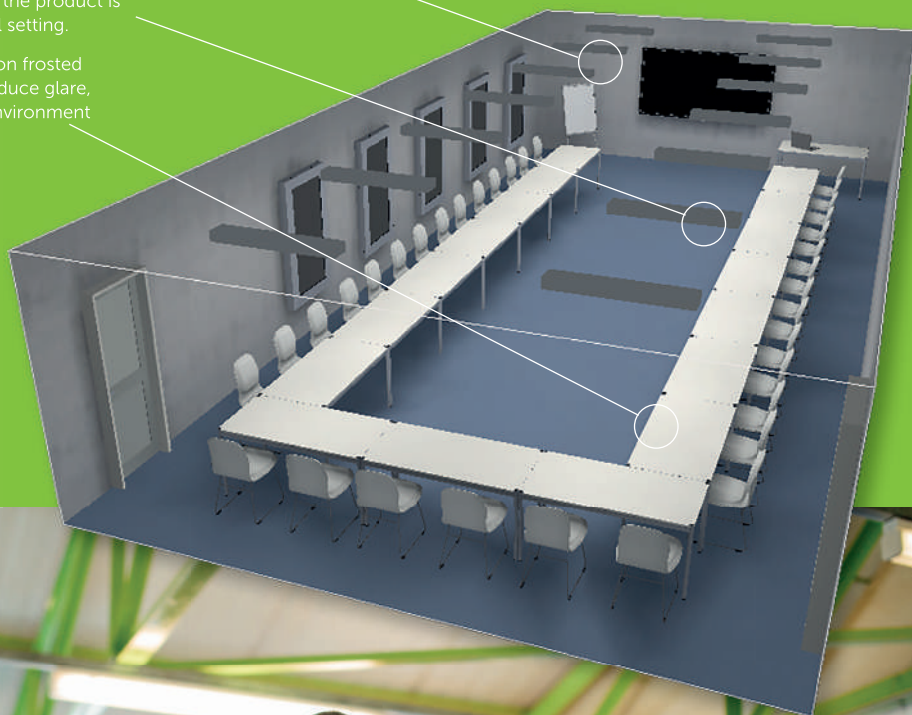
Wattage switchable, providing the opportunity to increase or decrease the light levels on offer, meaning the space can be used for a variety of lessons.

Shatterproof IK8 configuration with IP40 ingress protection, ensuring the product is durable enough for a school setting.

Special high light transmission frosted polycarbonate diffuser to reduce glare, making for a comfortable environment where pupils can learn.



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LED CCT Integrated Batten

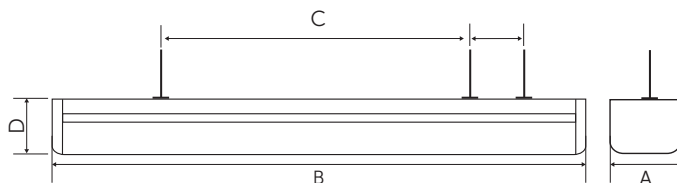
The Ultra LED CCT is a versatile general-purpose batten. The Ultra CCT has the reliable features of the standard Ultra battens combined with the additional benefits of selectable colour temperature and wattage. Plug in emergency packs, Microwave and PIR on/off sensors create a very stock friendly solution for wholesalers and contractors alike.

- The ideal replacement for Single/Twin Fluorescent T8 and T5 Fixtures
- Special high light transmission frosted polycarbonate diffuser
- Tool-free termination
- Shatterproof
- Plug in accessories
- Stock friendly product



LMR80: Maximum 20% of lumen depreciation over rated hours.

B10: Maximum 10% of fittings failure rate over rated hours



Model	A	B	C (From Centre)	D
20/40W	69mm	1230mm	290mm / 170mm / 320mm	82mm
30/60W	69mm	1530mm	290mm / 170mm / 320mm	82mm
40/80W	69mm	1795mm	415mm / 170mm / 320mm	82mm

W	Colour Temp (K) Selected	Lm
20	3000	2850
	4000	2950
	6000	2960
40	3000	5000
	4000	5400
	6000	5200
30	3000	4100
	4000	4400
	6000	4450
60	3000	7000
	4000	7700
	6000	7550
40	3000	5350
	4000	5650
	6000	5650
80	3000	9850
	4000	10850
	6000	10400



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LED CCT Integrated Batten

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Technical Specification	
Construction	Steel Body, Polycarbonate lens
Driver	BELL
LED Chip	Samsung
IP Rating	IP20
Operating Temp	-30°C to +35°C / Emergency version minimum temperature -5°C
Input Voltage	220 - 240V
Power Factor	> 0.9
CRI	85 - Exceeds EU standard of Ra 80 for Colour Rendering Index
LMR	80 - Exceeds EU standard of 70 for Lumens Maintenance Ratio
L1A / L1B / L2A / L2B Compliant	Yes

¹ Exceeds EU standard of 70 for Lumens Maintenance Ratio

² Exceeds EU standard of RA 80 for Colour Rendering Index

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LED CCT Integrated Batten

Code	W	Description	Lm	Temp	Hours
10278	20/40	Ultra LED Integrated Batten - CCT, 1200mm (4ft)	2850-5400	3/4/6000K	50000
10279	30/60	Ultra LED Integrated Batten - CCT, 1500mm (5ft)	4100-7700	3/4/6000K	50000
10280	40/80	Ultra LED Integrated Batten - CCT, 1800mm (6ft)	5350-10850	3/4/6000K	50000
10281	-	Plug in Emergency Pack for CCT Battens	-	-	-
10282	-	Plug in Sensor On/Off for CCT Battens	-	-	-
10293	-	Plug in PIR for CCT Battens	-	-	-
10294	-	Remote Control for CCT Battens (PIR only)	-	-	-

PIR Max Operating Height 3.2m

Emergency versions must be tested in line with the requirements of BS5266, failure to do so may effect battery life and warranty



Illuminaatlas

Switchable Wattage LED High Bay

The Illumina Atlas Switchable Wattage High Bay is a highly efficient versatile LED luminaire, ideally suited to a wide range of applications for both new installations and retrofit applications.

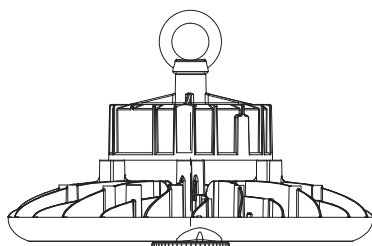
- 60-200 Switchable Wattages
- Seoul Semiconductor LED
- Plug-in PIR & Microwave sensors available
- Sensor parameters set by remote control
- Genuine Replacement for 250-600W Metal Halide or Sodium
- Perfect for warehousing, large retail and factories
- Emergency kit available
- 145 Lm/W

100W \equiv 250 W MH/SON	150W \equiv 400 W MH/SON	200W \equiv 600 W MH/SON
Energy Saving 60%	Energy Saving 63%	Energy Saving 66%



LMR80: Maximum 20% of lumen depreciation over rated hours.

B10: Maximum 10% of fittings failure rate over rated hours



	100W	150W	200W
Diameter	245mm	245mm	294mm
Height	159mm	174mm	174mm



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Switchable Wattage LED High Bay

Technical Specification	
Construction	Die Cast Aluminium Body, Polycarbonate Lens
Driver	Muso
LED Chip	Seoul Semiconductor
IP Rating	IP65
Operating Temp	-30°C to +50°C / Emergency version minimum temperature -5°C
Input Voltage	220 - 240V
Power Factor	> 0.9
CRI	85 - Exceeds EU standard of Ra 70 for Colour Rendering Index
LMR	80 - Exceeds EU standard of 70 for Lumens Maintenance Ratio
Weight	60-100W 2Kg / 90-150W 2.1Kg / 120-200W 2.8Kg

Code	W	Description	Lm	Temp	Hours
11450	60-100	Illumina Atlas Switchable Wattage LED High Bay 120° lens	9000-14000	4000K	50000
11452	90-150	Illumina Atlas Switchable Wattage LED High Bay 120° lens	14000-21000	4000K	50000
11454	120-200	Illumina Atlas Switchable Wattage LED High Bay 120° lens	18000-28000	4000K	50000
11451	60-100	Illumina Atlas Switchable Wattage LED High Bay 90° lens	9000-14000	4000K	50000
11453	90-150	Illumina Atlas Switchable Wattage LED High Bay 90° lens	14000-21000	4000K	50000
11455	120-200	Illumina Atlas Switchable Wattage LED High Bay 90° lens	18000-28000	4000K	50000
11478	-	Plug In Emergency Pack	-	-	-
11463	-	Twist Microwave Sensor for Illumina Atlas Switchable Wattage High Bay	-	-	-
11464	-	Twist PIR Sensor for Illumina Atlas Switchable Wattage High Bay	-	-	-
11465	-	Casambi Bluetooth Wireless Node for Illumina Atlas Switchable Wattage High Bay	-	-	-
11471	-	Polycarbonate Reflector for 60/70/100W and 90/120/150W Illumina Atlas Switchable Wattage High Bay	-	-	-
11472	-	Polycarbonate Reflector for 120/160/200W Illumina Atlas Switchable Wattage High Bay	-	-	-
11473	-	Aluminium Reflector for 60/70/100W and 90/120/150W Illumina Atlas Switchable Wattage High Bay	-	-	-
11474	-	Aluminium Reflector for 120/160/200W Illumina Atlas Switchable Wattage High Bay	-	-	-
11475	-	Reflector Cover for 60/70/100W and 90/120/150W Illumina Atlas Switchable Wattage High Bay	-	-	-
11476	-	Reflector Cover for 120/160/200W Illumina Atlas Switchable Wattage High Bay	-	-	-
11477	-	60° Adjustable Bracket for Illumina Atlas Switchable Wattage High Bay	-	-	-
11466	-	Infra-red remote control	-	-	-



IP65 ingress protection, with an IK10 impact resistance rating, making the product ideal for a Sports Hall where objects could potentially strike a light fitting.

120° and 90° lens optics, providing the designer and installer with the opportunity to offer a uniform layout in any Sports Hall.

Wattage switchable, ensuring that the scene can be adapted if the space is to be used for several purposes, like assemblies or presentations.



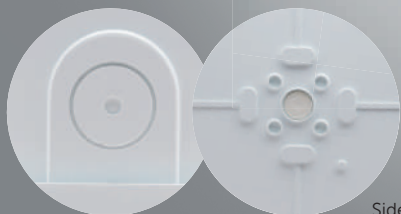
Optional infra-red remote control available for PIR & microwave sensor versions. Quick and easy adjustment for multiple fittings.



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² Exceeds EU standard of RA 70 for Colour Rendering Index

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Side, Rear & BESA Box cable entry



LED CCT Wattage Switchable Bulkhead

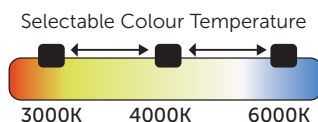
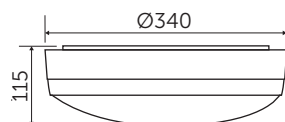
This cost-effective, colour switchable bulkhead is an ideal replacement for 16w, 28w and 38w fluorescent fittings. With the benefits of a high transmission frosted diffuser, rear, side & BESA Box cable entry and is IP65 as standard.

- CCT Cool White / Warm White / Daylight (3/4/6000K)
- The smart replacement for 16w, 28w and 38w fluorescent
- Tri level control now included on corridor dim versions
- Microwave and corridor dimming function option
- Supplied with White Bezel or Black Bezel
- White and Black Eyelids available
- High transmission frosted diffuser
- No lamp replacement
- No maintenance
- 50000 hour life
- IP65 Sealed fitting
- 8M detection range on corridor dim option (2.6m mounting height)
- Rear, Side & BESA Box cable entry
- Supplied with tamper-proof screws

Wattage Selected	Colour Temp (K) Selected	Lumens (lm)
9W	3000	870
	4000	930
	6000	930
14W	3000	1250
	4000	1400
	6000	1350
18W	3000	1490
	4000	1700
	6000	1620



LMR80: Maximum 20% of lumen depreciation over rated hours.
B10: Maximum 10% of fittings failure rate over rated hours



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LED CCT Wattage Switchable Bulkhead

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Technical Specification	
Construction	Polycarbonate body and lens
Driver	BELL
LED Chip	Samsung
IP Rating	IP65
Operating Temp	-20°C to +40°C
Input Voltage	220 - 240V
Power Factor	> 0.9
CRI	85 - Exceeds EU standard of Ra 80 for Colour Rendering Index
LMR	80 - Exceeds EU standard of 70 for Lumens Maintenance Ratio

Code	W	Description	Lm	Temp	Hours
11600	9/14/18	AQUA1 CCT Wattage Switchable Standard White Bezel	870-1700	3/4/6000K	50000
11601	9/14/18	AQUA1 CCT Wattage Switchable Emergency White Bezel	870-1700	3/4/6000K	50000
11602	9/14/18	AQUA1 CCT Wattage Switchable M/Wave Sen on/off White Bezel	870-1700	3/4/6000K	50000
11603	9/14/18	AQUA1 CCT Wattage Switchable Emergency M/Wave Sen on/off White Bezel	870-1700	3/4/6000K	50000
11604	9/14/18	AQUA1 CCT Wattage Switchable M/Wave Sen Cor/Dim White Bezel	870-1700	3/4/6000K	50000
11605	9/14/18	AQUA1 CCT Wattage Switchable Emergency M/Wave Sen Cor/Dim White Bezel	870-1700	3/4/6000K	50000
11590	9/14/18	AQUA1 CCT Wattage Switchable Standard Black Bezel	870-1700	3/4/6000K	50000
11591	9/14/18	AQUA1 CCT Wattage Switchable Emergency Black Bezel	870-1700	3/4/6000K	50000
11592	9/14/18	AQUA1 CCT Wattage Switchable M/Wave Sen on/off Black Bezel	870-1700	3/4/6000K	50000
11593	9/14/18	AQUA1 CCT Wattage Switchable Emergency M/Wave Sen on/off Black Bezel	870-1700	3/4/6000K	50000
11594	9/14/18	AQUA1 CCT Wattage Switchable M/Wave Sen Cor/Dim Black Bezel	870-1700	3/4/6000K	50000
11595	9/14/18	AQUA1 CCT Wattage Switchable Emergency M/Wave Sen Cor/Dim Black Bezel	870-1700	3/4/6000K	50000
11256	-	Black Bezel for above	-	-	-
11257	-	White Eyelid for above	-	-	-
11258	-	Black Eyelid for above	-	-	-

Microwave Max Operating Height 3.2m

Emergency versions must be tested in line with the requirements of BS5266, failure to do so may effect battery life and warranty



With sufficient natural light, the fitting does not switch on when presence is detected.



With insufficient natural light, the sensor switches on automatically when someone enters the room.



When the room is empty, light dims to stand-by level (10% / 20% / 30%) after the hold-time.



Light switched off automatically after the stand-by period has elapsed.

Tri-Level Control (Corridor Function)

Offers 3 levels of light: 100%-dimmed light (10%, 20%, 30%)-off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; selectable daylight threshold and choice of detection area.

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LED CCT Bulkhead

The Deco Slim LED Bulkhead is one of the most decorative, aesthetically pleasing bulkheads in the BELL range. Supplied with white bezel as standard with the option to add a variety of decorative bezels.

- Selectable colour temperature version 3000K/4000K/6000K available
- Supplied with white trim, chrome, satin, copper and antique brass trims available
- The ideal replacement for 2D and PL decorative fittings
- 8M detection range on corridor dim option (2.6m mounting height)
- Emergency option
- Microwave and corridor dimming function option (non CCT version)
- Rear entry

12W  Energy Saving 57%

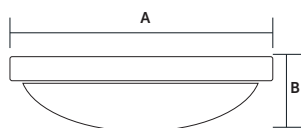
18W  Energy Saving 52%

25W  Energy Saving 54%



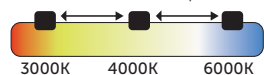
LMR80: Maximum 20% of lumen depreciation over rated hours.

B10: Maximum 10% of fittings failure rate over rated hours



Model	A Ø	B Depth
12W	250mm	48mm
18W	300mm	48mm
25W	300mm	48mm

Selectable Colour Temperature



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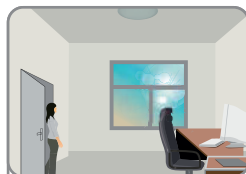
LED CCT Bulkhead

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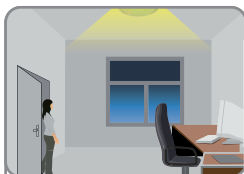
Technical Specification

Construction	Polycarbonate
Driver	BELL
LED Chip	Samsung
IP Rating	IP54
Operating Temp	-20°C to +35°C / Emergency version minimum temperature -5°C
Input Voltage	220 - 240V
Power Factor	> 0.9
CRI	85 - Exceeds EU standard of Ra 80 for Colour Rendering Index
LMR	80 - Exceeds EU standard of 70 for Lumens Maintenance Ratio
L1A / L1B / L2A / L2B Compliant	Yes

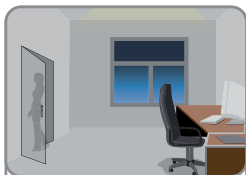
Tri-Level Control (Corridor Function)



With sufficient natural light, the fitting does not switch on when presence is detected.



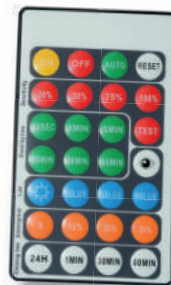
With insufficient natural light, the sensor switches on automatically when someone enters the room.



When the room is empty, light dims to stand-by level (10% / 20% / 30%) after the hold-time.



Light switched off automatically after the stand-by period has elapsed.



Optional infra-red remote control available for sensor versions

Quick and easy adjustment for multiple fittings; dimming level, presence detection, light levels & automatic on-off time. Average 4M range.

Offers 3 levels of light: 100%-dimmed light (10%, 20%, 30%)-off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; selectable daylight threshold and choice of detection area.

¹ Exceeds EU standard of 70 for Lumens Maintenance Ratio

² Exceeds EU standard of RA 80 for Colour Rendering Index

³ Subject to terms & conditions (Contact Customer Service)

Code	W	Description	Lm	Lm/w	Temp	Hours
06830	12	Deco Slim LED Bulkhead CCT	1056	88	3/4/6000K	50000
06831	18	Deco Slim LED Bulkhead CCT	1620	90	3/4/6000K	50000
06832	25	Deco Slim LED Bulkhead CCT	2150	86	3/4/6000K	50000
06833	12	Deco Slim LED Bulkhead CCT Emergency	1056	88	3/4/6000K	50000
06834	18	Deco Slim LED Bulkhead CCT Emergency	1620	90	3/4/6000K	50000
06835	25	Deco Slim LED Bulkhead CCT Emergency	2150	86	3/4/6000K	50000
06824	12	Deco Slim LED Bulkhead CCT Sensor On/Off	1056	88	3/4/6000K	50000
06825	18	Deco Slim LED Bulkhead CCT Sensor On/Off	1620	90	3/4/6000K	50000
06826	25	Deco Slim LED Bulkhead CCT Sensor On/Off	2150	86	3/4/6000K	50000
06827	12	Deco Slim LED Bulkhead CCT Sensor Emergency	1056	88	3/4/6000K	50000
06828	18	Deco Slim LED Bulkhead CCT Sensor Emergency	1620	90	3/4/6000K	50000
06829	25	Deco Slim LED Bulkhead CCT Sensor Emergency	2150	86	3/4/6000K	50000
06752	-	Satin Trim for 12W Deco Slim LED Bulkhead	-	-	-	-
06753	-	Satin Trim for 18/25W Deco Slim LED Bulkhead	-	-	-	-
06754	-	Chrome Trim for 12W Deco Slim LED Bulkhead	-	-	-	-
06755	-	Chrome Trim for 18/25W Deco Slim LED Bulkhead	-	-	-	-
06756	-	Copper Trim for 12W Deco Slim LED Bulkhead	-	-	-	-
06757	-	Copper Trim for 18/25W Deco Slim LED Bulkhead	-	-	-	-
06758	-	Antique Brass Trim for 12W Deco Slim LED Bulkhead	-	-	-	-
06759	-	Antique Brass Trim for 18/25W Deco Slim LED Bulkhead	-	-	-	-

Contact Customer Service for Emergency, Microwave and Corridor Dimming options

Microwave Max Operating Height 3.2m

Emergency versions must be tested in line with the requirements of BS5266, failure to do so may effect battery life and warranty



CASAMBI
Options Available

ArialPlus multi

Backlit High Output UGR<19 LED Panel

The Arial Plus Multi is our leading wattage switchable panel. With a high lumen output of up to 125 lumens per watt, this panel is ideal for areas that require high lux levels. The Arial Plus Multi can be installed in areas where TPa rated lighting products are essential, such as emergency exit routes including stairways and corridors.

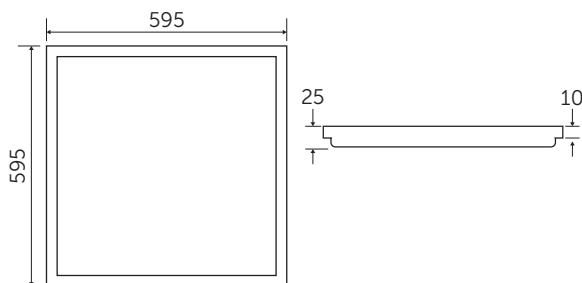
- High efficiency
- TPa
- Uniform light distribution
- Professional LED Panel
- 0-10V Dimming or DALI Dimming options available
- White finish
- Anti-twist frame
- Emergency panels with 5 year battery warranty available
- CCT option available

Also available in bulk packs for large project orders, reducing your cost & our carbon footprints.



LMR80: Maximum 20% of lumen depreciation over rated hours.

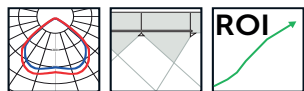
B10: Maximum 10% of fittings failure rate over rated hours



UGR (Unified Glare Rating) is a method of calculating glare from light sources.

The UGR rating helps to determine how likely a light source is to cause discomfort to those around it. This classification ranges from 5 to 40, with low numbers indicating low glare.

Glare can be a common problem in workplaces. Inappropriate lighting or excessive brightness can be bounced off reflective surfaces, such as computer screens, whiteboards etc. This can cause disruption for the occupants of offices.



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Backlit High Output UGR<19 LED Panel

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Technical Specification	
Construction	Steel + Polycarbonate
Driver	BELL
LED Chip	Philips
IP Rating	IP40
Operating Temp	0°C to +35°C
Input Voltage	220 - 240V
Power Factor	> 0.9
CRI	85 - Exceeds EU standard of Ra 80 for Colour Rendering Index
LMR	80 - Exceeds EU standard of 70 for Lumens Maintenance Ratio
L1A / L1B / L2A / L2B Compliant	Yes
Emergency Battery Type	NiCd 1 Year Emergency / LiFePO4 5 Year Emergency

Code	W	Description	Up to Lm/W	Lm	Temp	Hours
11748	20/26/30/36	Arial Plus Multi Backlit LED Panel - 25mm 600x600mm, 4000K, UGR<19, White	120*	2400-4100	4000K	50000
11750	20/26/30/36	Arial Plus Multi Backlit LED Panel - 25mm 600x600mm, 4000K, UGR<19, Emergency, White (1Y Guarantee)	120*	2400-4100	4000K	50000
11749	36	Arial Plus Multi Backlit LED Panel - 25mm 600x600mm, 4000K, UGR<19, Emergency, White (5Y Guarantee)	120*	4100	4000K	50000
11752	36	Arial Plus Multi Backlit LED Panel - 25mm 600x600mm, 4000K, UGR<19, White, 0-10V Dim	120*	4100	4000K	50000
11751	36	Arial Plus Multi Backlit LED Panel - 25mm 600x600mm, 4000K, UGR<19, White, Dali Dim	120*	4100	4000K	50000
11798	36	Arial Plus Multi Backlit LED Panel - 25mm 600x600mm, 4000K, UGR<19, White, Casambi Enabled	120*	4100	4000K	50000

¹ Exceeds EU standard of 70 for Lumens Maintenance Ratio

² Exceeds EU standard of RA 80 for Colour Rendering Index

³ Subject to terms & conditions (Contact Customer Service)



Backlit High Output UGR<19 LED Panel

Code	W	Description	Up to Lm/W	Lm	Temp	Hours
11799	36	Arial Plus Multi Backlit LED Panel - 25mm 600x600mm, 4000K, UGR<19, White, Emergency (1 Year Battery Guarantee), Casambi Enabled	120*	4100	4000K	50000
11764	20/26/30/36	Arial Plus Multi Backlit CCT LED Panel - 25mm 600x600mm, UGR<19, White	120*	2200-4100	3/4/6K	50000
11766	20/26/30/36	Arial Plus Multi Backlit CCT LED Panel - 25mm 600x600mm, UGR<19, Emergency, White (1Y Guarantee)	120*	2200-4100	3/4/6K	50000
11765	20/26/30/36	Arial Plus Multi Backlit CCT LED Panel - 25mm 600x600mm, UGR<19, Emergency, White (5Y Guarantee)	120*	2200-4100	3/4/6K	50000
11768	36	Arial Plus Multi Backlit CCT LED Panel - 25mm 600x600mm, UGR<19, White, 0-10V Dim	120*	4100	3/4/6K	50000
11767	36	Arial Plus Multi Backlit CCT LED Panel - 25mm 600x600mm, UGR<19, White, Dali Dim	120*	4100	3/4/6K	50000
11772	20/26/30/36	Arial Plus Multi Backlit LED Panel - 25mm 1200x300mm, 4000K, UGR<19, White	125*	2500-4100	4000K	50000
11773	20/26/30/36	Arial Plus Multi Backlit LED Panel - 25mm 1200x300mm, 4000K, UGR<19, White, Emergency (1Y Guarantee)	125*	2500-4100	4000K	50000
11776	36	Arial Plus Multi Backlit LED Panel - 25mm 1200x300mm, 4000K, UGR<19, White, 0-10V Dim	125*	4100	4000K	50000

*Lumens based on 4000K

Emergency versions must be tested in line with the requirements of BS5266, failure to do so may effect battery life and warranty.



Backlit High Output UGR<19 LED Panel

Code	W	Description	Up to Lm/W	Lm	Temp	Hours
11775	36	Arial Plus Multi Backlit LED Panel - 25mm 1200x300mm, 4000K, UGR<19, White, Dali Dim	125	4100	4000K	50000
11777	36	Arial Plus Multi Backlit LED Panel - 25mm 1200x300mm, 4000K, UGR<19, White, Emergency Dali (1Y Guarantee)	125	4100	4000K	50000
11778	36	Arial Plus Multi Backlit LED Panel - 25mm 1200x300mm, 4000K, UGR<19, White, Emergency 1-10V (1Y Guarantee)	125	4100	4000K	50000
11790	30/40/50/55/60	Arial Plus Multi Backlit LED Panel - 25mm 1200x600mm, 4000K, UGR<19, White	120	3600-6780	4000K	50000
11791	30/40/50/55/60	Arial Plus Multi Backlit LED Panel - 25mm 1200x600mm, 4000K, UGR<19, White, Emergency	120	3600-6780	4000K	50000
11793	60	Arial Plus Multi Backlit LED Panel - 25mm 1200x600mm, 4000K, UGR<19, White, 1-10V Dim	120	6780	4000K	50000
11792	60	Arial Plus Multi Backlit LED Panel - 25mm 1200x600mm, 4000K, UGR<19, White, Dali Dim	120	6780	4000K	50000
11794	60	Arial Plus Multi Backlit LED Panel - 25mm 1200x600mm, 4000K, UGR<19, White, Emergency Dali (1Y Guarantee)	120	6780	4000K	50000
11795	60	Arial Plus Multi Backlit LED Panel - 25mm 1200x600mm, 4000K, UGR<19, White, Emergency 1-10V (1Y Guarantee)	120	6780	4000K	50000

¹ Exceeds EU standard of 70 for Lumens Maintenance Ratio

² Exceeds EU standard of RA 80 for Colour Rendering Index

³ Subject to terms & conditions (Contact Customer Service)



Backlit High Output UGR<19 LED Panel

Code	W	Description	Up to Lm/W	Lm	Temp	Hours
10190	-	Surface Mount Unit for 600x600 Arial Backlit Panel		-	-	-
10192	-	Surface Mount Unit for 1200x300 Arial Backlit Panel		-	-	-
10193	-	Surface Mount Unit for 1200x600 Arial Backlit Panel		-	-	-
10118	-	Suspension Kit for 600x600/1200x300 Arial Backlit Panel		-	-	-
08747	2.5	LED Emergency Pack (self + manual test)	-	-	-	-

Available on request:

- Emergency panels with 5 year battery warranty
- Emergency 0-10V Dim
- Emergency Dali Dim

For further information call 01924 893380 or email sales@belllighting.co.uk

Emergency versions must be tested in line with the requirements of BS5266, failure to do so may effect battery life and warranty.



¹ Exceeds EU standard of 70 for Lumens Maintenance Ratio
² Exceeds EU standard of RA 80 for Colour Rendering Index
³ Subject to terms & conditions (Contact Customer Service)

TPa rated and tested onsite at BELL Lighting, meaning that the product is as safe as possible where potential fire hazards are concerned.

Dimming options are available, ensuring that the area can be flexible for the usage needs of any given lesson.

High performance, providing <UGR 19 to spaces where this is a design requirement. This means that the product provides optimal conditions for working on computers and on screens.







IP65 Backlit LED Panel

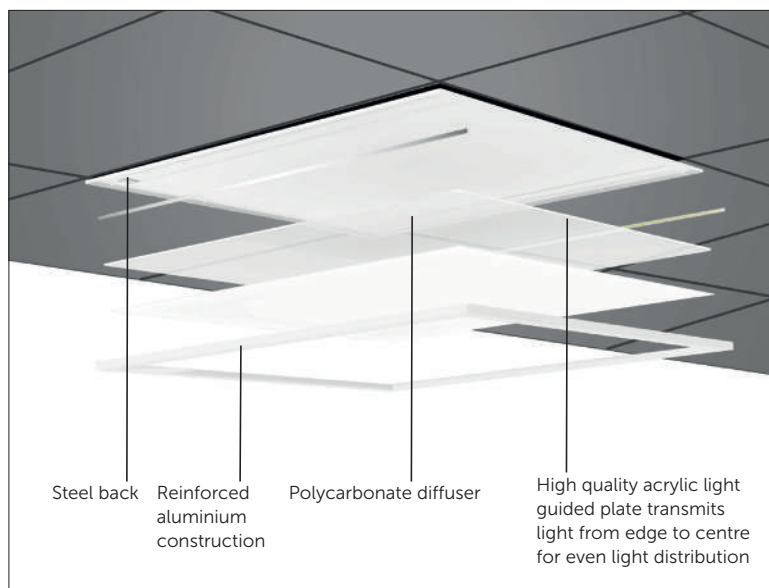
The IP65 version of our Ariel Multi Backlit LED Panel is an ideal product for areas that may contain moisture such as changing rooms, locker rooms & commercial kitchen environments.

- Front face IP65
- Professional Backlit LED panel
- 0-10V Dimming or DALI Dimming options available
- TPb
- BELL Driver
- Anti-twist frame
- Emergency panels with 5 year battery warranty available

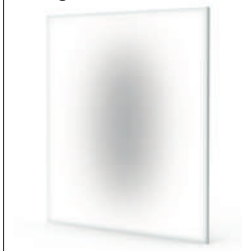


LMR80: Maximum 20% of lumen depreciation over rated hours.

B10: Maximum 10% of fittings failure rate over rated hours



No Light Fall Off



Seamless Trim Design



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IP65 Backlit LED Panel

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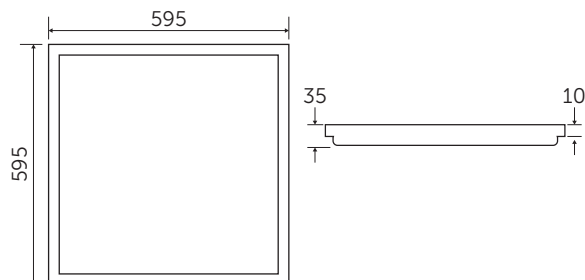
Technical Specification	
Construction	Aluminium + PMMA
Driver	Li Fud
LED Chip	Philips
IP Rating	IP65 (Front face)
Operating Temp	0°C to +35°C
Input Voltage	220 - 240V
Power Factor	> 0.9
CRI	85 - Exceeds EU standard of Ra 80 for Colour Rendering Index
LMR	80 - Exceeds EU standard of 70 for Lumens Maintenance Ratio
L1A / L1B / L2A / L2B Compliant	Yes
Emergency Battery Type	NiCd 1 Year Emergency / LiFePO4 5 Year Emergency

Code	W	Description	Up to Lm/W	Lm	Temp	Hours
11070	20/26/30/36	Arial IP65 LED Backlit Panel - 600x600mm,	130	2630-4670	4000	50000
11071	20/26/30/36	Arial IP65 LED Backlit Panel - 600x600mm, Emergency, (1 Year Battery Guarantee)	130	2630-4670	4000	50000
11073	36	Arial IP65 LED Backlit Panel - 600x600mm, White, 0-10V Dim	130	4670	4000	50000
11074	36	Arial IP65 LED Backlit Panel - 600x600mm, White, Dali Dim	130	4670	4000	50000
08747	2.5	LED Emergency Pack (self + manual test	-	-	-	-

Available on request:

- Emergency 0-10V Dim
- Emergency Dali Dim
- Emergency panels with 5 year battery warranty available

For further information call 01924 893380 or email sales@belllighting.co.uk



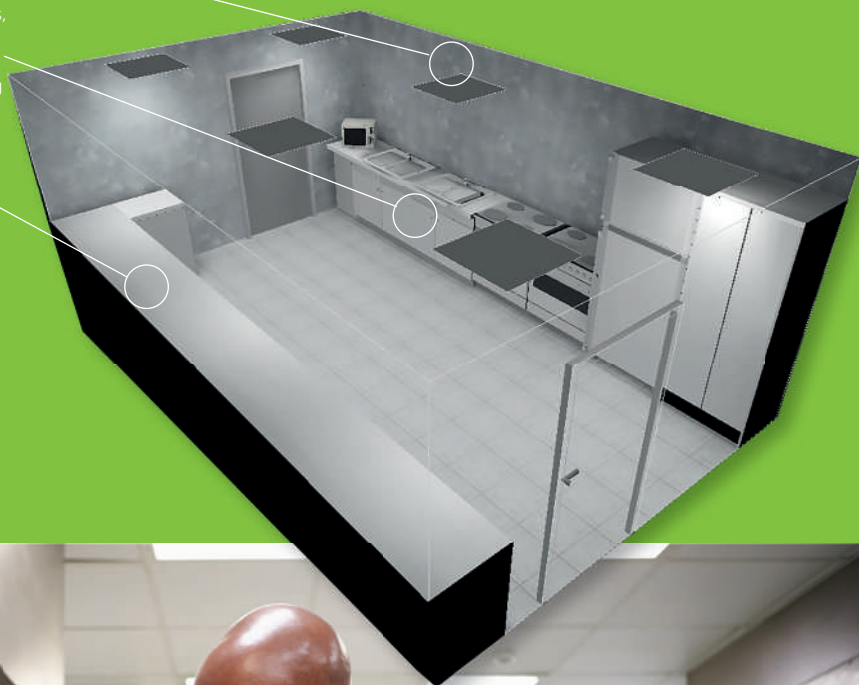
Low glare, ensuring that the working environment is suitable for extended working periods.

Use of an IP65 product ensures that the light fittings are protected against ingress, meaning that natural moisture from a food preparation environment will not have a detrimental impact on the lighting in place.

The Arial IP65 Panel is CRI 85, exceeding EU standards of Ra 80 for Colour Rendering Index. This ensures that the food preparation can be completed with precision, and allows for greater clarity when plating and determining freshness.



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IC Rated up to 350mm insulation
Bezels sold separately

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Integrated LED Fixed Downlight

The Firestay Duo LED CCT is a High Output Downlight ideal for high ceilings or any project requiring high intensity light, 4 way colour and 2 wattages switchable straight out of the box.

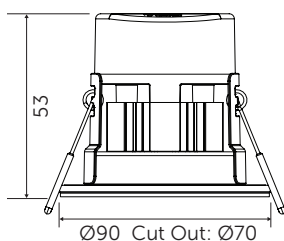
With a 7 year product warranty, the front facing switch enables the user to seamlessly change the colour temperature (2700/3000/4000/6000K) to suit the mood of any space while the rear facing wattage switch enable you to instantly dictate the light level of any commercial or residential premises.

- Firestay Certification: 30, 60 and 90 minute solid joist ceilings, 30 minute I-Joist & Metal Web ceiling systems
- IP65
- Front CCT switch
- 8 in 1 Fixture: 4 colour temperatures, 2 wattages
- White, Satin, Chrome, Brass, Antique Brass & Matt Black bezels available
- Part B / C / E compliant
- Tool-free termination
- 60° Beam Angle
- Spacer plate options available



LMR80: Maximum 20% of lumen depreciation over rated hours.

B10: Maximum 10% of fittings failure rate over rated hours



Wattage Selected	Colour Temp (K) Selected	Lumens (lm)	Candelas (cd)
6W	2700	550	495
	3000	575	515
	4000	635	565
	6000	620	565
4W	2700	415	375
	3000	425	385
	4000	465	415
	6000	460	420

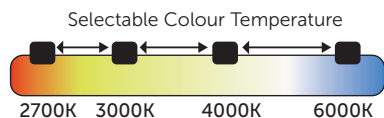


Firestay Duo

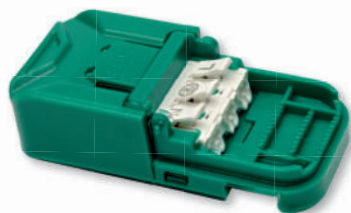
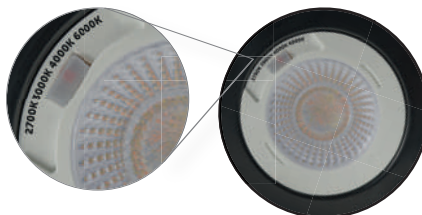
CCT 4 COLOUR / 2 WATTAGE SWITCHABLE

Integrated LED Fixed Downlight

The Firestay Duo LED has an easily accessible colour selectable switch located under the bezel on the front of the downlights. Simply move the switch to select your colour temperature option.



Simply move the switch located under the bezel to your desired colour temperature



Tool-Free Termination



Slide the switch on the rear of the downlight to the wattage you require

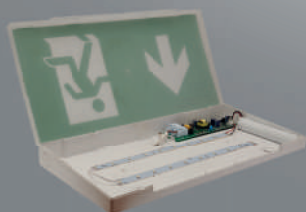
Technical Specification	
Construction	Die-Cast Aluminium
Driver	BELL
LED Chip	Epistar
IP Rating	IP65
Operating Temp	-5°C to +35°C
Input Voltage	220 - 240V
Power Factor	> 0.9
CRI	85 - Exceeds EU standard of Ra 80 for Colour Rendering Index
LMR	80 - Exceeds EU standard of 70 for Lumens Maintenance Ratio

Code	Description	Colour Temperature	Lm	Cd	Beam°	Hrs
11370	4/6W Firestay Duo LED CCT Switchable Wattage Fixed Downlight, CCT, P&P, 60° Beam Angle. Tool Free Termination	2.7/3/4/6000	415-635	415-565	60°	50000
11377	4/6W Firestay Duo LED CCT Switchable Wattage Fixed Downlight, CCT, P&P, 60° Beam Angle. Tool Free Termination. Contractor Pack (x10). Includes Matt White Bezels.	2.7/3/4/6000	415-635	415-565	60°	50000
11371	Matt White Bezel for above	-	-	-	-	-
11372	Satin Bezel for above	-	-	-	-	-
11373	Chrome Bezel for above	-	-	-	-	-
11374	Brass Bezel for above	-	-	-	-	-
11375	Antique Brass Bezel for above	-	-	-	-	-
11376	Matt Black Bezel for above	-	-	-	-	-
08196	Emergency Pack for above	-	-	-	-	-

¹ Exceeds EU standard of 70 for Lumens Maintenance Ratio

² Exceeds EU standard of RA 80 for Colour Rendering Index

³ Subject to terms & conditions (Contact Customer Service)





LED Emergency Hinged Exit Box

Our Spectrum LED Emergency Hinged Exit Box is one of our most popular emergency products. The tried and tested robust design and polycarbonate construction makes this exit box ideal for all commercial and industrial environments.

- Hinged for quick and easy installation and maintenance
- Tool free termination
- Sleek, energy efficient design
- Different legend options available
- Suitable for commercial and industrial installations
- IP20
- Viewing distance 25m



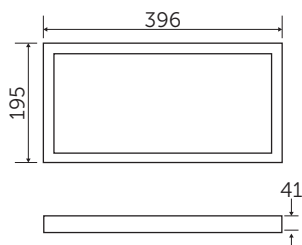
Auto Self Test Indicator. No requirement for manual key test (Code: 09084)

Normal operation: Green indicator illuminated

Battery failure: Red indicator flashes once every 3 seconds

Light source failure: Red indicator flashes twice every 3 seconds

Less than rated duration time: Red indicator flashes three times every 3 seconds.



technical@belllighting.co.uk
sales@belllighting.co.uk



LED Emergency Hinged Exit Box

Legend Options



09085 New (ISO) Legend Reversible
Left & Right



09087 New (ISO)
Legend Down



09086 New (ISO)
Legend Up

Technical Specification

Construction	Polycarbonate
LED Chip	Samsung
IP Rating	IP20
Operating Temp	-5°C to +35°C
Input Voltage	220 - 240V
Power Factor	> 0.9
Battery	LiFeP04

Code	W	Description	Viewing Distance	Temp	Hours
09083	4	LED Emergency Hinged Exit Box including Up Legend.	25M	6500K	30000
09084	4	LED Emergency Hinged Exit Box, Self Test including Up Legend	25M	6500K	30000
09085	—	New (ISO) Legend Reversible Left & Right (spare accessory)	-	-	—
09087	—	New (ISO) Legend Down (spare accessory)	-	-	-
09086	—	New (ISO) Legend Up (spare accessory)	-	-	—

Must be tested in line with the requirements of BS5266, failure to do so may effect battery life and warranty.

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School Tennis Court Lighting

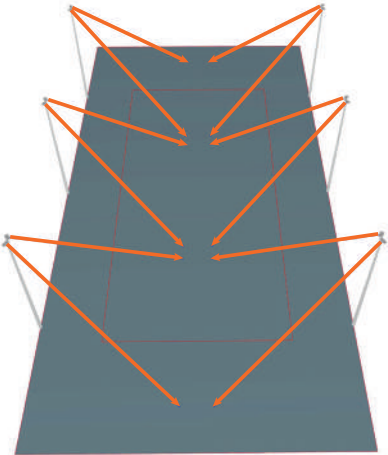
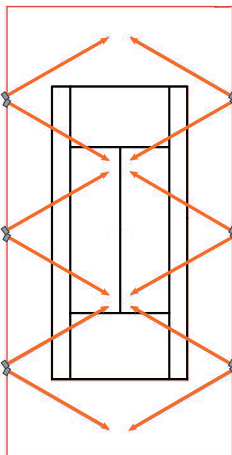
Benefits of LED lighting for school tennis courts

As with many other outdoor sports, lighting gives the opportunity to play tennis for an increased amount of time throughout the year and encourage and support participation, coaching and development for all levels of play.

Schools with lighting have an enormous advantage over those without lighting, attracting coaches, more players, extending playing times and gaining increased revenue from court fees during the winter months.

The problem is that, of the estimated 30,000 courts available to tennis players in Great Britain, less than 1.5% are floodlit.


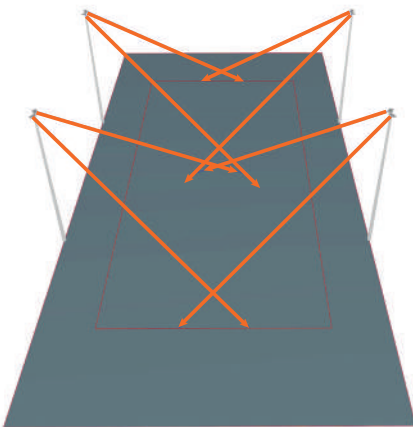
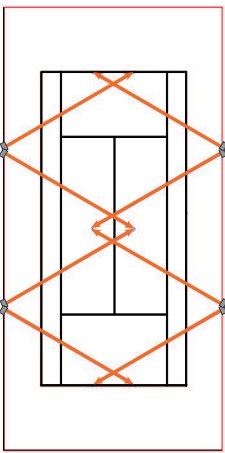


LTA Class 2 Scheme, 8M Column

Fittings: 12 x 240W Skyline Floodlights


Details:
PPA 300 Lux - 0.8 / TPA 250 Lux / ULR - 0%

LTA Class 3 Scheme, 8M Column

Fittings: 8 x 240W Skyline Floodlights

Details:
PPA 257 Lux - 0.6 / TPA 205 Lux / ULR - 0%



School Football Lighting

Benefits of LED lighting for school football facilities

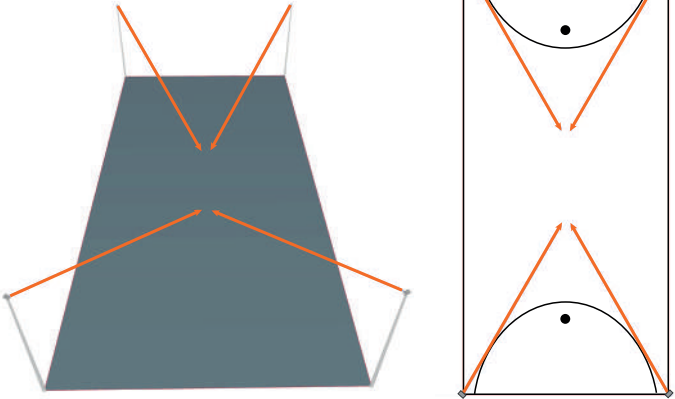
Outdoor sports lighting provides a great way of extending the use and the overall value of outdoor football venues. In the summer period, England enjoys long hours of daylight that give the opportunity to take part in football during the long summer evenings.

In contrast, the winter daylight can be as short as 7 hours a day and can restrict opportunities for football to short periods during the weekends.

In numerical terms, outdoor sports lighting can extend the playing hours by some 1000-1500 additional hours per annum and this can allow people to train or play in the evening all year round, increasing your revenue stream.

Typical use after the installation of floodlights can include: playing, training and coaching sessions for all adult and junior teams during the dark autumn/winter evenings.


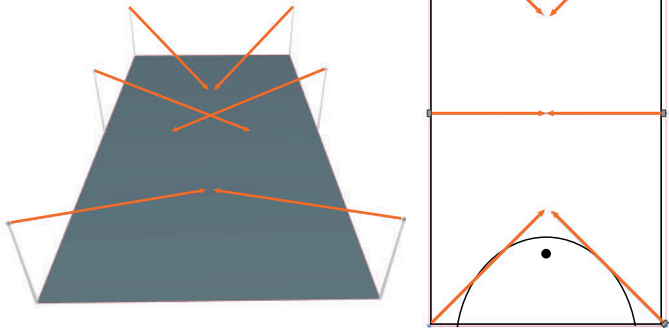




5 A Side Football Pitch Scheme, 8M Column

Fittings: 4 x 240W Skyline Floodlights


Details:
TPA 63 Lux - 0.5 / ULR - 1%

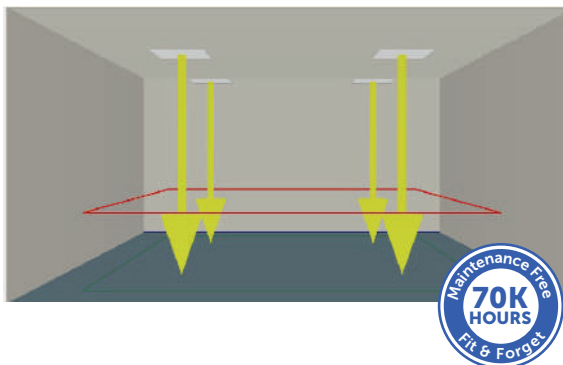
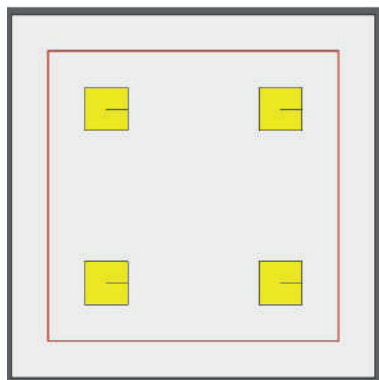
7 A Side Football Pitch Scheme, 8M Column

Fittings: 8 x 240W Skyline Floodlights

Details:
TPA 72 Lux - 0.6 / ULR - 1%



CIBSE General Classroom Scheme.



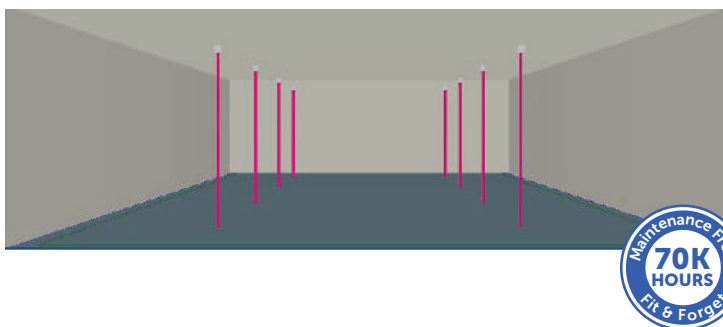
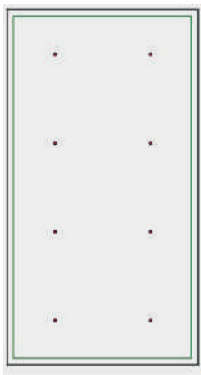
5x5m Room with 2.4m High Ceiling.

Fittings: 4 x 36W Arial Backlit UGR 600x600 panel.

Details: Desk Level Illuminance – 500 lux at 0.84 Uniformity.

Cylindrical Illuminance – 188 lux at 0.78 Uniformity. UGR Rating <18.

CIBSE School Sports Hall Scheme



28x15m Room with 5m High Ceiling

Fittings: 8 x 150W Illumina Atlas Highbay.

Details: Illuminance at Floor – 314 lux at 0.72 Uniformity.

Cylindrical Illuminance – 130 lux at 0.59 Uniformity.

