

# Sports Lighting Guide 2021

Manufacturers of quality lighting since 1920





British Electric Lamps Ltd www.belllighting.co.uk



# Energy Saving Calculations are now available whenever and wherever you are

BELL Lighting Energy Saving Calculator is a handy, easy to use tool for all lighting professionals. Simply enter your current and proposed lighting, along with electricity costs.

Hit calculate for full data including;

- Energy Saving
- Annual Cost Saving
- Savings Over Life Of Lamps
- Annual Energy Saving
- CO<sub>2</sub> Saving
- Built in option for control gear calculations





# 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.

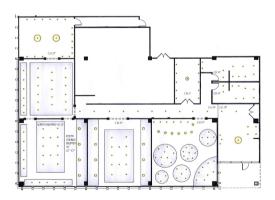


Working within the UK and internationally, the lighting team have established a reputation for designing a broad range of exciting projects of all sizes, from single rooms through to partnerships with multi-disciplined design teams on large infrastructure projects.

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

For all internal, external & emergency projects contact:

lightingdesign@belllighting.co.uk





# The BELL Difference - Research, Quality Control & Testing Facilities

British Electric Lamps Ltd. was established in 1920 and has built a reputation within the industry for manufacturing quality products and providing excellent service to our customers.

British Electric Lamps Research and Development department was established in 2012, this was augmented by the Lighting Laboratory and the Quality Control/Quality Assurance facility in 2013.

Secure Life Testing Area situated on-site next to the National Distribution Centre, batch tests all manufactured items to ensure continuity to life standards.



All products manufactured by British Electric Lamps undergo a stringent set of quality control procedures, carried out in accordance with the latest standards.

Be assured that when you choose BELL lamps or fittings you are getting the most energy efficient units available today, saving you money, energy and reducing your carbon footprint.

# BELLlighting



The Photometric Sphere tests all lamp output data; lumens, spectrum, colour temperature, power factor and actual power. This allows availability of photometric data and illumination data for lighting design schemes.



Thermal Imaging Cameras are used to ensure correct operation and thermal management of LED products. Thermal management is essential for LED products to prevent limited lamp life and lumen depreciation.



Extreme Electrical Conditions tests are carried out on each batch of our LED lamps in line with EN 62560:2012. All of the electrical safety tests are carried out after the lamps have aged at 35°C and 95% relative humidity in our environmental chamber.



Needle Flame Tests ensure that all insulating parts in lamps and fixtures are flame retardant.



Post production QC testing & inspection to ensure safe current protection of the product.



Circuit Overload Protection and circuit wattage is tested on product batches to ensure safety and compliance to EN60598.



Extensive Dimmer Compatibility Testing is performed on all LED products to ensure performance of smooth dimming, high loading compatibility and overall stability.



Cap Torque Test, calibrated torque test is carried out on all lamps to ensure products retain cap strength before and after life testing.



Glow Wire Test is performed on all lamps and fixtures to ensure that construction materials are self extinguishing.

# **BELL**lighting

# BELL celebrates over 100 years in business 1920-2021!

In May 1920 Edwin Grote, founder, established an incandescent lamp factory in Wimbledon, London manufacturing unique incandescent decorative light sources. The company is still completely owned by Chairman Michael Grote and Managing Directors Trevor & Ralph Grote.

### 1940

During World War 2 the lamp making machinery was converted to produce components for the military to help fight against the German war machine.

### 2013

New laboratory and Quality Control facility built on-site in Normanton to meet requirements for new stringent EU safety and performance standards.

### 1920

Mr E R Grote, Founder, established an incandescent lamp factory in Wimbledon, manufacturing unique incandescent decorative lights.

### 1980

A national distribution centre was established in West Yorkshire to facilitate national next day delivery across the UK and Southern Ireland.

### 2020

Further expansion of the warehousing capacity along with a state of the art showroom, conference facility & hospitality centre.

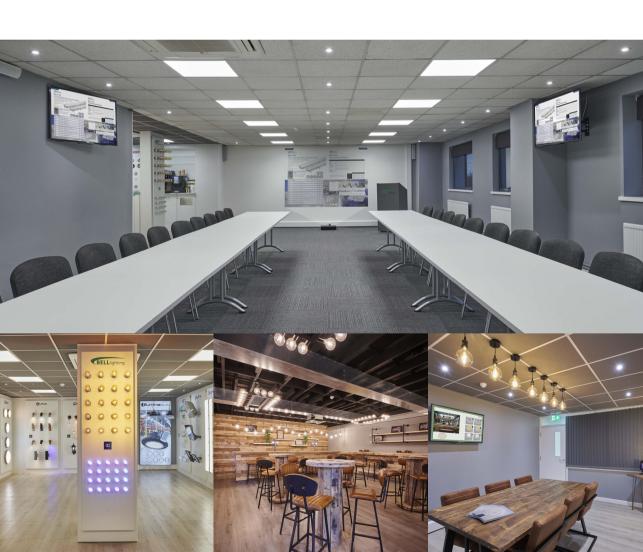




# 2021 Expansion Moving forward into the new decade.

Due to continued growth, BELL Lighting have expanded into additional warehousing facilities in the heart of West Yorkshire. With a combined 100,000 square feet, and stocking over 1800 individual product lines, BELL Lighting are able to deliver on time and on budget with our next day delivery service as standard.

To celebrate our centenary year, we have created our new state of the art conference facility, product showroom and entertainment suite. With the ability to cater for up to 50 people, this is the perfect venue for hosting conferences, meetings and product training sessions. Post event, our entertainment suite is the perfect place to unwind and take a well-earned break. Showcasing the stunning effects Smart Lighting can create in any bar, hotel or restaurant, this is an ideal atmosphere for networking with colleagues and the BELL team.





## Warranties and Guarantees

Offering quality products and service has been our mission since inception in 1920. We are still a family owned British company who pride ourselves on our original values of; outstanding innovation for lighting products  $\theta$  providing lighting solutions for our customers.

We have such confidence in our products, that we are now proudly offering up to a 10 year warranty, on all LED products accompanied with 2 year on site support across an extensive range of LED Fixtures. Our transparent warranties and no quibble 2 year support package has propelled us to the forefront of the market while ensuring our customers are backed by the very best support.

You can be assured that with the above guarantee, product life of up to 50,000 hours and on site support your BELL lamps and fittings offer a comprehensive 'fit and forget' solution. Saving energy,  $CO_2$  emissions and the costs associated with maintaining old inefficient units.











### 3. 5. 7 & 10 Year Guarantee

Bell Lighting will repair or replace any product that fails to operate normally within a 3, 5, 7 or 10 year period (dependent on individual product warranty) from the date of purchase.

## 2 Year On-Site Warranty

In the event that a product covered by the 2 year On-Site Warranty fails within 2 years of the purchase date Bell Lighting will, where possible, authorise the installer to replace the failed product and reimburse fair and reasonable costs. In the event that agreement can not be reached Bell Lighting engineers will carry out the repair or replacement.

In addition to our extended warranty period, all BELL lighting fittings are rated L80B10, with a 50,000 hour product life. All fittings will still have 80% as a minimum of initial lumens, only 10% as a maximum, may fail to achieve this.





The warranty shall be void in the following circumstances:-

- · Non-compliance with installation and safety regulations given in the installation instructions
- Modification or repair of any product by the installer, end user or anyone unauthorised to do so
- Improper use or installation, damage by accident or neglect, of any product by the installer, end user or any third party
- If the product is operated outside of the stated operating temperature of the lamp or luminaire.

 $<sup>^{1}\,\</sup>mathrm{Exceeds}\,\mathrm{EU}$  standard of 70 for Lumens Maintenance Ratio  $^{3}\,\mathrm{Subject}$  to terms & conditions

<sup>\*</sup> All BELL Lighting luminaires are rated L80 B10, so for a 50,000 hour product. L80B10 at 50,000 hours our fittings will still have 80% of initial lumen, only 10% of fittings may fail to achieve this



## Customer Rewards Scheme

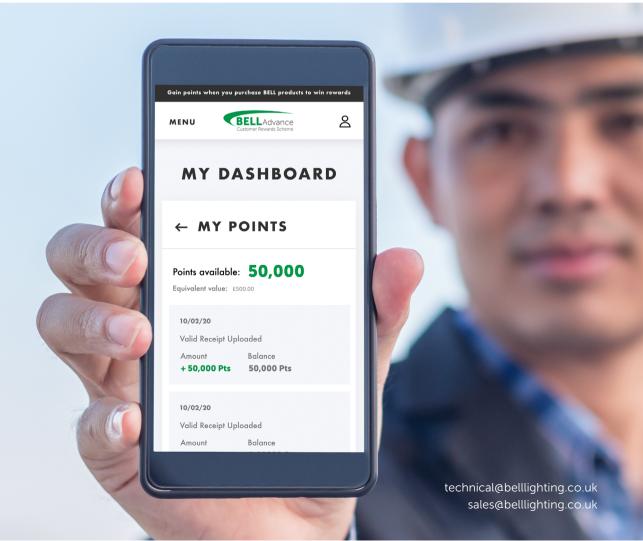


As a thank you, we have launched our brand new BELL Advance Customer Rewards Scheme. Our aim is to reward loyalty, the more you spend, the more we give back to you, the contractor.

All you have to do is follow these 3 simple steps:

- Register at www.belladvance.co.uk and receive your complimentary reward points along with automatic entry to our monthly prize draw.
- Buy BELL Lighting Products & collect points, take a photo of your invoice and upload.
- Redeem once you have accumulated your well-earned points, simply redeem your rewards in the form of retail vouchers, emailed direct to your inbox.

See above website for full terms & conditions









## Asymmetric LED Floodlight

Skyline Elite+ represents the latest technology in sports floodlighting. Modern aesthetic, die-cast aluminium construction with asymmetrical high output and high efficiency light distribution. Perfect for large external sports facilities or industrial applications, complete with fully a adjustable mounting bracket for precise light direction. Light shielding helps avoid light trespass, giving this unit a 0% ULOR rating.

- 1200W Asymmetric Floodlight
- Genuine replacement for 2000W Metal Halide
- 126 Lm/W
- IP66
- · Fully adjustable mounting bracket
- · Angle markings for easy alignment
- Asymmetric 0% ULOR
- · Low weight & windage when compared with HID luminaires













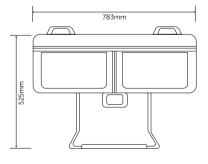


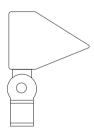




















# Asymmetric LED Floodlight

Technical Specification	on
Construction	Die Cast LM6 Aluminium & Polycarbonate lens
Driver	Inventronics 1-10V Dim
LED Chip	Sosen
IP Rating	IP66
Operating Temp	-30°C to +35°C
Input Voltage	100 - 277V (277 - 440V special order)
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
Weight	28.8 Kg
Windage	0.21M <sup>2</sup>

<sup>\*</sup> All BELL Lighting luminaires are rated L80 B10, so for a 50,000 hour product. L80B10 at 50,000 hours our fittings will still have 80% of initial lumen, only 10% of fittings may fail to achieve this

Code	V	W	Description	Lm	Peak Intensity	Temp	Lm/W	Hours
10760	100-277	1200	Asymmetric LED Floodlight	151200	1241.50 cd/klm @ 71°	4000K	126	70000

 $<sup>^1</sup>$  Exceeds EU standard of 70 for Lumens Maintenance Ratio  $^2$  Exceeds EU standard of RA 70 for Colour Rendering Index

<sup>&</sup>lt;sup>3</sup> Subject to terms & conditions (Contact Customer Service)









# Symmetric LED Floodlight

Skyline Elite+ represents the latest technology in sports floodlighting. Modern aesthetic, die-cast aluminium construction. With IP66 and low windage ratings this unit can handle the worst weather conditions. Perfect for large external sports facilities or industrial applications, complete with a fully adjustable mounting bracket.

- 600W Symmetric Floodlight
- Genuine replacement for 1500W Metal Halide
- Up to 155 Lm/W
- IP66
- · Visor for low upward light
- Low weight & windage when compared with HID luminaires
- Fully adjustable mounting bracket
- · Angle markings for easy alignment













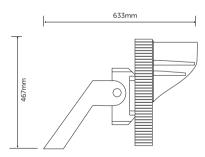




















Technical Specification	on
Construction	Die Cast LM6 Aluminium & Polycarbonate lens
Driver	Inventronics 1-10V Dim
LED Chip	Sosen
IP Rating	IP66
Operating Temp	-30°C to +35°C
Input Voltage	100 - 277V (277 - 440V special order)
Power Factor	> 0.9
CRI	85 - Exceeds EU standard of Ra 70 for Colour Rendering Index
LMR	80 - Exceeds EU standard of 70 for Lumens Maintenance Ratio
Weight	18.6 Kg
Windage	0.11M <sup>2</sup>

<sup>\*</sup> All BELL Lighting luminaires are rated L80 B10, so for a 50,000 hour product. L80B10 at 50,000 hours our fittings will still have 80% of initial lumen, only 10% of fittings may fail to achieve this

Code	V	W	Description	Lm	Peak Intensity	Temp	Lm/W	Hours
10770	100-277	600	Symmetric LED Floodlight 60°	89000	1192.90 cd/klm @ 10°	4000K	148	70000
10771	100-277	600	Symmetric LED Floodlight 30°	93000	2460.60 cd/klm @ 0°	4000K	155	70000

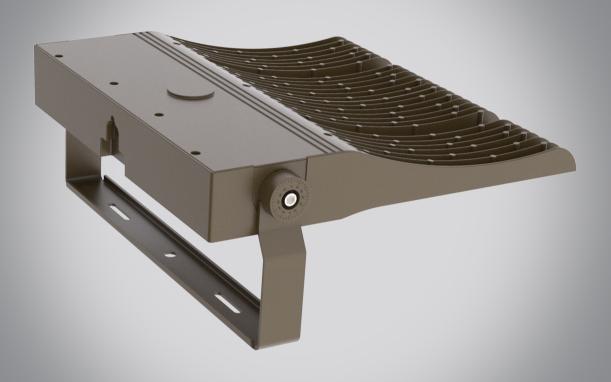
<sup>&</sup>lt;sup>1</sup> Exceeds EU standard of 70 for Lumens Maintenance Ratio

<sup>&</sup>lt;sup>2</sup> Exceeds EU standard of RA 70 for Colour Rendering Index

<sup>&</sup>lt;sup>3</sup> Subject to terms & conditions (Contact Customer Service)







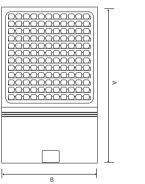


## High Output Asymmetric LED Floodlight

Skyline Elite+ represents the latest technology in sports floodlighting. Modern aesthetic, die-cast aluminium construction. With IP66 and low windage ratings this unit can handle the worst weather conditions. Perfect for large external sports facilities or industrial applications, complete with a fully adjustable mounting bracket.

- Genuine replacement for up to 1500W Metal Halide Floodlight
- Perfect for sports, building facade's, landscape, security & car park lighting
- · Asymmetric distribution, low light pollution
- Up to 145 Lm/W
- · Aerodynamic, streamlined design for reduced windage
- Fully encapsulated IP66 TUV certified driver
- Nichia GRT-V1 LED
- · Fully adjustable mounting bracket







	300W	450W	600W
Α	571mm	621mm	621mm
В	322mm	601mm	601mm
С	94mm	104mm	104mm









# High Output Asymmetric LED Floodlight

Technical Specification	on
Construction	Polyester coated die-cast LM6 Marine Grade aluminium & toughened safety glass
Driver	Sosen (1-10V dimmable)
LED Chip	Nichia GRT-V1
IP Rating	IP66
Operating Temp	-30°C to +45°C
Input Voltage	100 - 277V (277 - 440V special order)
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	300W 0.18M <sup>2</sup> / 450W 0.37M <sup>2</sup> / 600W 0.37M <sup>2</sup>
Weight	300W - 8.4Kg / 450W - 16.5Kg / 600W - 18Kg

<sup>\*</sup> All BELL Lighting luminaires are rated L80 B10, so for a 50,000 hour product. L80B10 at 50,000 hours our fittings will still have 80% of initial lumen, only 10% of fittings may fail to achieve this

Code	V	W	Description	Lm	Peak Intensity	Temp	Lm/W	Hours
08867	110-277	300	Skyline Elite+ Asymmetric Floodlight IP66 Type 2	43500	471.10 cd/klm @ 36°	4000K	145	70000
08868	110-277	300	Skyline Elite+ Asymmetric Floodlight IP66 Type 3	43500	488.20 cd/klm @ 44°	4000K	145	70000
08869	110-277	300	Skyline Elite+ Asymmetric Floodlight IP66 Type 4	43500	523.40 cd/klm @ 58°	4000K	145	70000
08870	110-277	450	Skyline Elite+ Asymmetric Floodlight IP66 Type 2	62250	459.60 cd/klm @ 32°	4000K	138	70000
08871	110-277	450	Skyline Elite+ Asymmetric Floodlight IP66 Type 3	62250	488.30 cd/klm @ 44°	4000K	138	70000
08872	110-277	450	Skyline Elite+ Asymmetric Floodlight IP66 Type 4	62250	500.50 cd/klm @ 58°	4000K	138	70000
08873	110-277	600	Skyline Elite+ Asymmetric Floodlight IP66 Type 2	87000	474.60 cd/klm @ 32°	4000K	145	70000
08874	110-277	600	Skyline Elite+ Asymmetric Floodlight IP66 Type 3	87000	488.20 cd/klm @ 44°	4000K	145	70000
08875	110-277	600	Skyline Elite+ Asymmetric Floodlight IP66 Type 4	87000	546.50 cd/klm @ 60°	4000K	145	70000

 $<sup>^1</sup>$  Exceeds EU standard of 70 for Lumens Maintenance Ratio  $^2$  Exceeds EU standard of RA 70 for Colour Rendering Index

<sup>&</sup>lt;sup>3</sup> Subject to terms & conditions (Contact Customer Service)



# BELLlighting



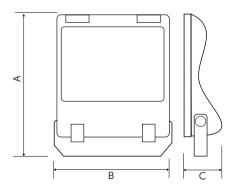


## Asymmetric/Symmetric LED Floodlight

Designed and engineered in the UK specifically to meet the requirements for sports lighting and to reduce light pollution levels. The Skyline Elite is a high specification floodlight with a 70,000 hour lifespan, 7 year guarantee and 2 year on site warranty.

- Genuine replacement for 250/400/600W Metal Halide/Sodium Floodlight
- Perfect for sports, building facade's, landscape, security & car park lighting
- Asymmetric distribution, low light pollution (Asymmetric version)
- Up to 133 Lm/W
- Surge protected 10,000V (250/240W) & 4000V (80W) for lighting protection
- Cool White
- · Aerodynamic, streamlined design for reduced windage
- Fully encapsulated IP66 TUV certified driver
- Nichia GRT-V1 LED / Meanwell Driver
- Long life 70,000 hours (L80 B10 @ 25°C)
- Robust construction IP66
- · Standard universal mounting bracket
- Supplied pre-flexed (1.5M), tool free entry and construction for simple and quick installation
- · Air pressure equalisation feature to elimate capillary effect





	80W	150W	240W
А	360mm	325mm	418mm
В	265mm	413mm	452mm
С	82mm	83mm	87mm

 $<sup>^2</sup>$  Exceeds EU standard of RA 80 for Colour Rendering Index  $^3$  Subject to terms  $\theta$  conditions (Contact Customer Service)







<sup>&</sup>lt;sup>1</sup> Exceeds EU standard of 70 for Lumens Maintenance Ratio

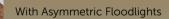


Technical Specificat	ion
Construction	Polyester coated die-cast LM6 Marine Grade aluminium & toughened safety glass
Driver	Sosen
LED Chip	Nichia GRT-V1
IP Rating	IP66
Operating Temp	-30°C to +35°C
Input Voltage	100 - 264V
Power Factor	> 0.9
CRI	80 - Exceeds EU standard of Ra 70 for Colour Rendering Index
LMR	80 - Exceeds EU standard of 70 for Lumens Maintenance Ratio
Windage	80W 0.1M <sup>2</sup> / 150W 0.12M <sup>2</sup> / 240W 0.2M <sup>2</sup>
Weight	80W - 4.6Kg / 150W - 6.8Kg / 240W - 8.9Kg

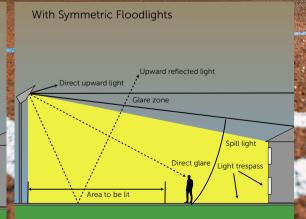
<sup>\*</sup> All BELL Lighting luminaires are rated L80 B10, so for a 50,000 hour product. L80B10 at 50,000 hours our fittings will still have 80% of initial lumen, only 10% of fittings may fail to achieve this

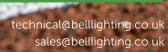
Code	V	W	Description	Lm	Peak Intensity	Temp	Lm/W	Hours
08850	110-264	80	Skyline Elite Symmetric	10000	1331.60 cd/klm @ 10°	4000K	125	70000
08851	110-264	80	Skyline Elite Asymmetric	10000	500.00 cd/klm @ 54°	4000K	125	70000
08852	110-264	80	Skyline Elite 30°	10000	2562.40 cd/klm @ 0°	4000K	125	70000
08853	110-264	80	Skyline Elite 15°	10000	5005.70 cd/klm @ 0°	4000K	125	70000
08854	110-264	150	Skyline Elite Symmetric	20000	1377.20 cd/klm @ 8°	4000K	133	70000
08855	110-264	150	Skyline Elite Asymmetric	20000	483.00 cd/klm @ 54°	4000K	133	70000
08856	110-264	150	Skyline Elite 30°	20000	2512.60 cd/klm @ 0°	4000K	133	70000
08857	110-264	150	Skyline Elite 15°	20000	4800.10 cd/klm @ 0°	4000K	133	70000
08858	110-264	240	Skyline Elite Symmetric	30000	1338.80 cd/klm @ 10°	4000K	125	70000
08859	110-264	240	Skyline Elite Asymmetric	30000	501.80 cd/klm @ 50°	4000K	125	70000
08860	110-264	240	Skyline Elite 30°	30000	1566.50 cd/klm @ 0°	4000K	125	70000
08861	110-264	240	Skyline Elite 15°	30000	4587.00 cd/klm @ 0°	4000K	125	70000
					<u> </u>			

 $<sup>^1</sup>$  Exceeds EU standard of 70 for Lumens Maintenance Ratio  $^2$  Exceeds EU standard of RA 70 for Colour Rendering Index  $^3$  Subject to terms 6 conditions (Contact Customer Service)



Area to be lit





## Tennis Court Lighting

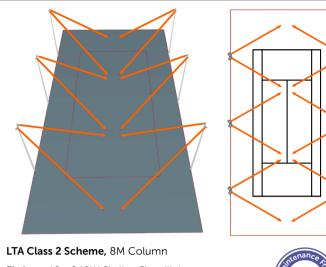
## Benefits of LED lighting for tennis clubs

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.

Taking bad weather into account, an all-weather court in England is available for about 2,500 hours of daylight playing time per year. Clubs 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.

These same benefits will also be available to floodlit tennis court providers in all other sectors e.g. schools, colleges and Local Authority sports centres. The problem is that, of the estimated 30,000 courts available to tennis players in Great Britain, less than 1.5% are floodlit.

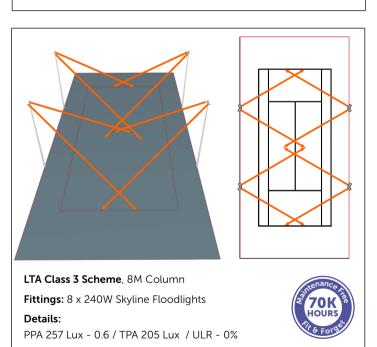




Fittings: 12 x 240W Skyline Floodlights

Details:

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



# Football Lighting

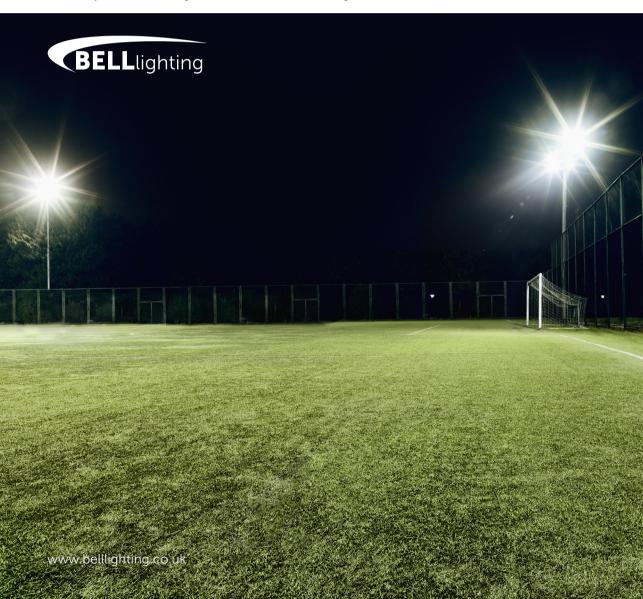
## Benefits of LED lighting for football

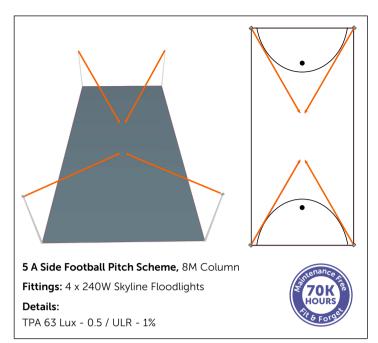
Outdoor sports lighting provides a great way of extending the use and the overall value of outdoor football venues. In the summer period, England enjoys long hours of daylight that give the opportunity to take part in football during the long summer evenings.

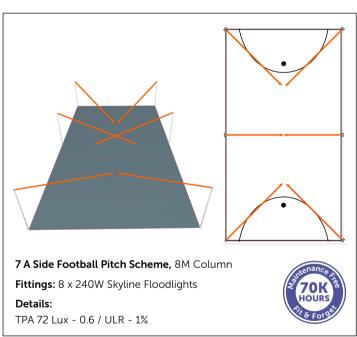
In contrast, the winter daylight can be as short as 7 hours a day and can restrict opportunities for football to short periods during the weekends.

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.







## Outdoor Bowls Lighting

## Benefits of LED lighting for outdoor bowls

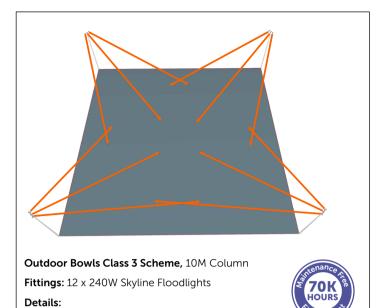
Artificial lighting at outdoor bowls centres can fundamentally affect the enjoyment and quality of play. As well as being critical during a game, the quality of the lighting can have a major impact on the overall ambience.

Artificial lighting must be considered as an integral element of the overall design and planning of all areas. The colours and types of surface must be carefully selected in conjunction with the lighting scheme to achieve the optimum overall visual quality, and to provide an attractive environment.

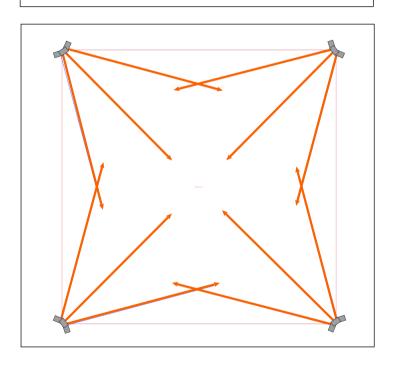
Visual requirements are for players to clearly see the jack and the locations of the woods around it together with being able to follow the run of the live wood from the far end of the rink.

Because of the large playing area, the uniformity of the brightness of the green is very important. The material of the green itself may influence the apparent uniformity.





TPA 90 Lux - 0.6 / ULR - 1%



## Equestrian Arena Lighting

## Benefits of LED lighting for equestrian

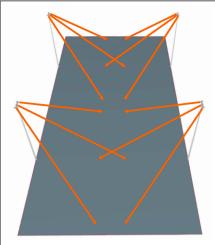
Equestrian Manège require a minimum average light level of 100 lux with a uniformity of 0.5 for flat work and jumping. Shadows should be minimized as these may distract the horses.

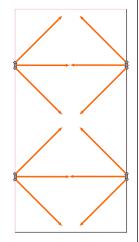
It is important that a good uniformity is achieved with minimal shadows around any show jumping fences. A good general uniformity is vital as poor lighting may distract the horses.

BELL Skyline Elite Floodlights are highly efficient units, offering higher colour rendering resulting in a crisper and cleaner light. This aids vision considerably as humans, horses and other animals do not see well under low colour temperature lighting.

With 70,000 hours life once BELL Skyline Elite Floodlights are installed they will not need any maintenance for years.







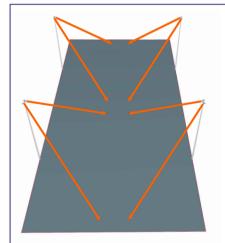
Equestrian Area Class 2 Scheme, 10M Column

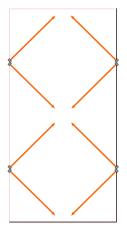
Fittings: 12 x 240W Skyline Floodlights

Details:

Total Area 208 Lux - 0.5 / ULR - 0%







Equestrian Area Class 3 Scheme, 10M Column

Fittings: 8 x 240W Skyline Floodlights

Details:

Total Area 135 Lux - 0.5 / ULR - 0%



## Car Park Lighting

## Benefits of LED lighting for car parks

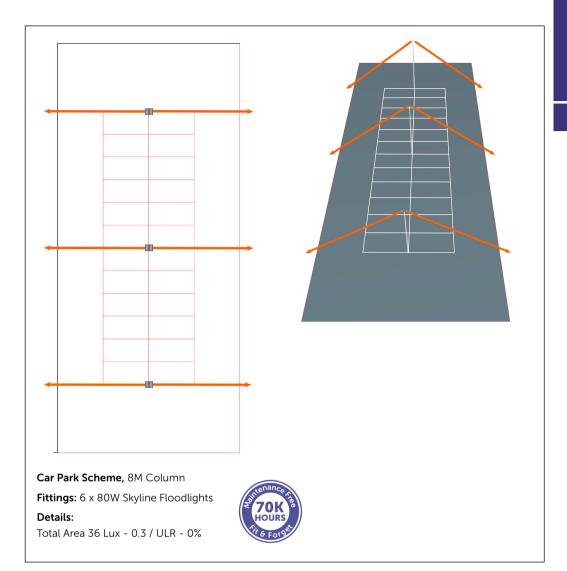
Correct car park lighting contributes to greater safety for all users. Signs, vehicles and people are more easily seen when BELL Skyline Elite Floodlights are installed. The risk of accidents is greatly reduced and an enhanced sense of comfort and personal security is achieved.

Studies have shown that there is almost certainly a correlation between lighting levels  $\theta$  people's fear of crime as indeed there is between lighting levels  $\theta$  actual criminal activity. Good lighting therefore plays a pivotal role in such areas in that it reduces people's fear of crime  $\theta$  reduces actual crime.

High colour rendering also helps with vehicle identification, assists with general security  $\theta$  safety measures.

Our lighting design service ensures correct light levels and uniformity are achieved in compliance with current regulations.





# Loading Bay Lighting

## Benefits of LED lighting for loading bays

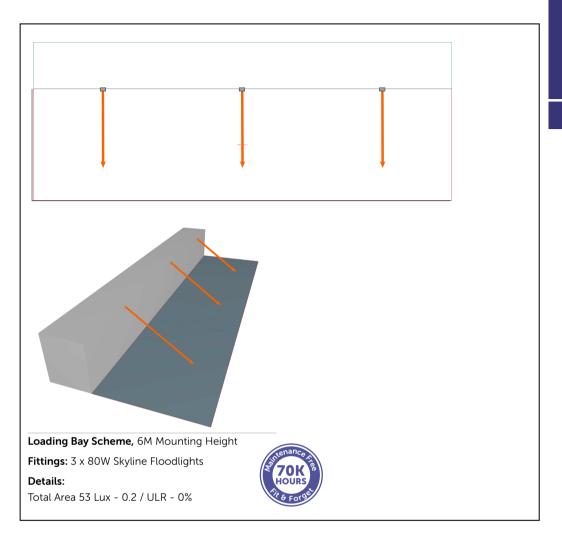
Loading bays present a number of significant risks which require careful management. Differing specifications for bays and vehicles, visiting drivers and the lack of direct communication between drivers and warehouse staff all contribute to potential problems.

Lighting at loading bays is very important to the health and safety of everyone using the workplace. The quicker and easier it is to see a hazard, the more easily it is avoided.

BELL Skyline Elite Floodlights will illuminate your loading bay to the correct levels, without distracting glare, creating a safe working environment for employees and visitors

Our lighting design service ensures correct light levels and uniformity are achieved in compliance with current regulations.









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