



### Improved features for ease of installation and maintenance



Safety and simplicity are crucial when installing or maintaining a high power floodlight at great heights. Improved thermal management and attention to details has enabled the new Champion to be more compact and lighter, therefore easier to handle and install.

- Central handle and reduced weight to carry (1)
- Aiming sights added to the top of body in addition to the side ones on the ignitor box provides easier aiming in azimuth (2)
- Ignitor box now moved from the stirrup bracket to the body means easier manipulation and fixing of the floodlight in all positions (3)
- Tool-free door opening with automatic power disconnection (4)
- Tool-free lamp replacement (5)
- 3 lamp positions, adjustable on site from one installed position (6)

## A high performance discharge floodlight with best in class optic for control of obtrusive light

- Compact asymmetric floodlight for 1 and 2 kW metal halide lamps, incorporating the flat glass concept and integrated visor for total control of glare and obtrusive light (0 cd at 90°), with additional accessories also available
- Maximum optical efficiency and accurate light distribution with minimum light spill
- Three lamp positions, adjustable on site, from just one installed position
- Safe, tool-free lamp access and replacement through hinged door
- Tool-free aiming in azimuth thanks to integrated aiming sights

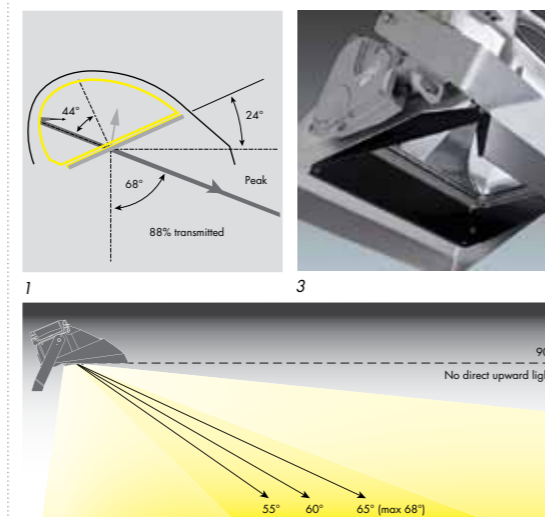
### Applications

- Training grounds
- Small and medium stadia
- General purpose area floodlighting

### Lamp Information

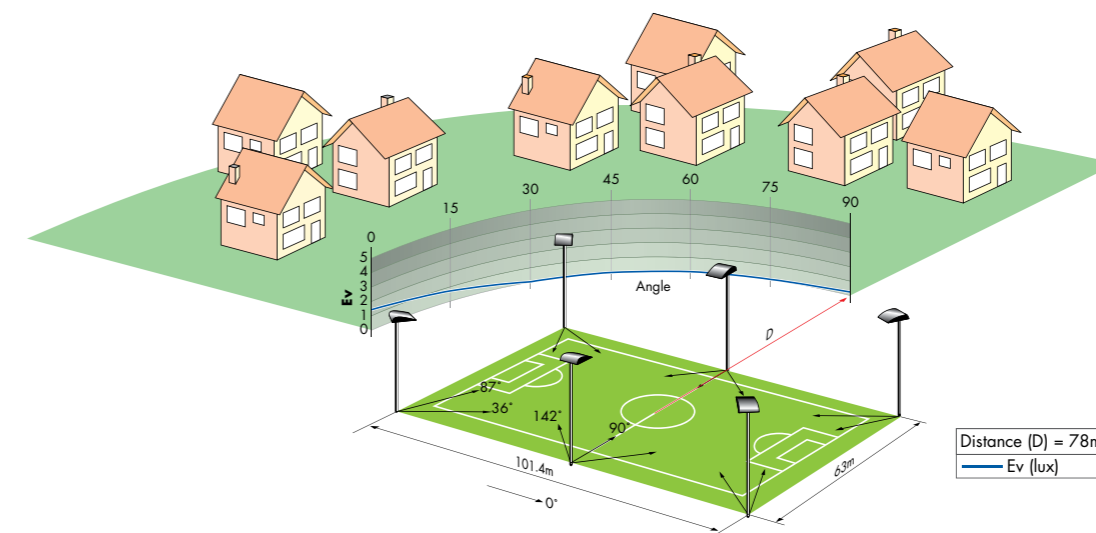
- 1/2 kW metal halide double ended (Osram, Philips) short arc
- 1/2 kW metal halide double ended (Philips) long arc
- 2 kW metal halide double ended (Osram) long arc
- 2 kW high flux / high output metal halide double ended (Osram, Philips) short arc
- 1 kW high pressure sodium tubular, cap E40
- 1 kW metal halided (Osram, Philips) tubular, cap E40

### Optimised optical concept



- Champion is designed to be installed without tilting, thereby reducing artificial sky glow, glare and intrusive light. The tilted glass inside Champion enables 88% of the emitting light to be transmitted, whilst the 'virtual' light emitting surface remains horizontal to the ground (1)
- Champion offers a variety of light distributions from one installed position. With its 3 adjustable lamp positions any aiming required to optimise uniformity can be achieved through the lamp position and not tilting (2)
- Total cut-off achieved at 75° from the perpendicular.
- The use of adjustable vertical light shields enables further control of light, in the front (usually the most critical direction) but also side and rear (3)

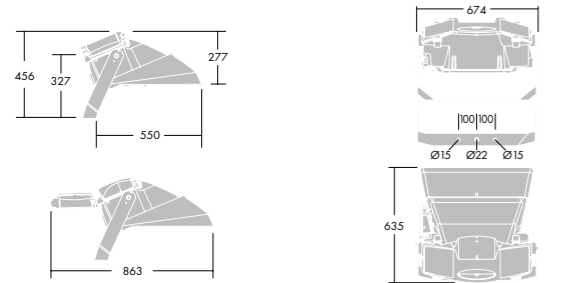
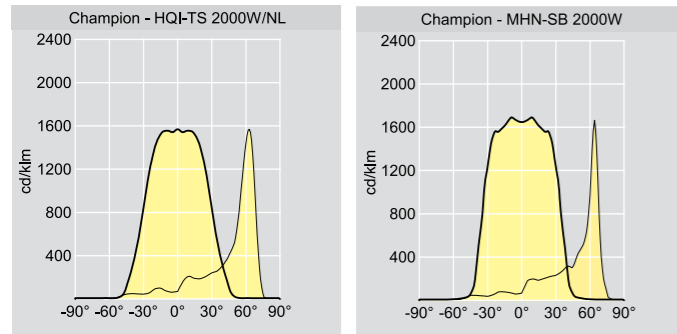
### Champion lighting schemes: compliance with best practice standards with best-in class control of off-pitch lighting levels



- The new and improved Champion not only retains its original success factors but now also boasts improved features for efficient handling of projects, making it the ideal choice for area and sports lighting environments where control of light is critical.
- Example: a football pitch in an urban environment. The required illuminance levels are achieved with excellent uniformity and reduced glare rating, whilst giving special attention to the surrounding environment.
- The vertical illuminance at 5m high is of critical importance, as a standard 1st floor bedroom is located at 5m above ground level. The following shows that at a distance of 78m from the pitch centre, vertical illuminance is kept to a minimum.

		Required	Achieved
Pitch dimensions	55x91.1m		
Total playing area	63x101.4m	Maintained average illuminance	250 269
Calculation points	11x19	Initial average illuminance	287 314
Lamp type	HQI-TSL 2kW	Uniformity (min/ave)	0.6 0.71
Initial lamp lumens	230,000	Uniformity (min/max)	na 0.4
Number of floodlights	14	Glare rating (max)	55 49
Number of columns	6		
Mounting height	15m		

## Overview



Hot Restrike version

## Materials/Finish

Body: die-cast aluminium (ENAB 44300, EN AC-44300), unpainted  
 Glass: 4mm toughened  
 Wiring / ignitor box: polyamide (66 V0 Black: 20% glass fibre re-inforced).  
 Screws: stainless steel

## Installation/Mounting

Rear access to lamp with automatic power disconnection on opening of rear access door. Tool-free installation and lamp replacement. Stirrup fixed by M20 bolt through Ø22mm hole, or through Ø15mm holes. Ballast and capacitors to be mounted separately. Cable gland for Ø7.5-13mm cable. Aiming via top (door and visor) or side (ignitor box) integrated aiming sights.  
 $Scx = 0.19 \text{ m}^2 \text{ max}$

## Specification

To specify state:  
 Die-cast aluminium asymmetric floodlight for 1/2kW lamps, IP66 rated, tool-free lamp access and replacement, adjustable lamp position with internally inclined front glass and integral front cowl.  
 As Thorn Champion

## Ordering Guide

Supplied complete with gear and lamp

Lamp type	Gear type	Description	SAP Code	Description	Wt (Kg)	SAP Code
<b>Champion 1kW</b>						
Long arc double-ended	MHN-LA (PH)	GT	CHPK1000PMHGT CHAMPION 1KW PHI WI	96263071		
		GB	CHPK1000PMHGB CHAMPION 1KW PHI WI	96263072		
	MHN-FC (PH)	GT	CHPK1000HPSGT CHAMPION 1KW WI	96263073		
		GB	CHPK1000HPSGB CHAMPION 1KW WI	96263074		
Tubular E40	HST (GE)	GT	CHPK1000MHNFCGT CHAMPION 1KW PHI WI	96263075		
		GB	CHPK1000MHNFCGB CHAMPION 1KW PHI WI	96263076		
	HPIT (PH)	GT	CHPK1000HPITGT CHAMPION 1KW PHI WI	96263077		
		GB	CHPK1000HPITGB CHAMPION 1KW PHI WI	96263078		
HQT (O)	GT	CHPK1000HQTGT CHAMPION 1KW O WI	96263079			
		GT	CHPK1000HQTGB CHAMPION 1KW O WI	96263080		
<b>Champion 2kW</b>						
Long arc double-ended	MHN-LA (PH)	GT	CHPK2000PMHGT CHAMPION 2KW PHI WI	96263081		
		GB	CHPK2000PMHGB CHAMPION 2KW PHI WI	96263082		
	HQT-TSL (O)	GT	CHPK2000HQTSLGT CHAMPION 2KW WI	96263083		
		GB	CHPK2000HQTSLGB CHAMPION 2KW WI	96263084		
	MHN-FC (PH)	GT	CHPK2000HQTSLGT CHAMPION 2KW O WI	96263085		
		GB	CHPK2000HQTSLGB CHAMPION 2KW O WI	96263086		
Short arc double-ended	HQT-TSS (O)	GT	CHPK2000MHNFCGT CHAMPION 2KW PHI WI	96263087		
		GB	CHPK2000MHNFCGB CHAMPION 2KW PHI WI	96263088		
	MHN-SB HO (PH)	GT	CHPK2000MHNFCGL CHAMPION 2KW PHI WI	96263089		
		GB	CHPK2000MHNFCGL CHAMPION 2KW PHI WI	96263090		
	HQT-TSS (O)	GT	CHPK2000MHNFCGT CHAMPION 2KW PHI WI	96263091		
		GB	CHPK2000MHNFCGB CHAMPION 2KW PHI WI	96263092		
Short arc double-ended (improved output)	MHN-SB HO (PH)	GT	CHPK2000MHNFCGL CHAMPION 2KW PHI WI	96263093		
		GB	CHPK2000MHNFCGL CHAMPION 2KW PHI WI	96263094		
	HQT-TSS (O)	GT	CHPK2000MHNFCGT CHAMPION 2KW PHI WI	96263095		
		GB	CHPK2000MHNFCGB CHAMPION 2KW PHI WI	96263096		
HQT-TSS (O)	GT	CHPK2000MHNFCGT CHAMPION 2KW PHI WI	96263097			
	GB	CHPK2000MHNFCGB CHAMPION 2KW PHI WI	96263098			

- GT Gear Tray (IP21)
- GB Gear Box (IP65)
- GL Gear Loose (spare capacitors and ballast)
- HO High Output
- HF High Flux
- O Osram
- PH Philips
- GE General Electric
- WG wire guard
- AJ VS adjustable visor
- VS visor

