

THORN
LIGHTING



CHAMPION

Designed for spill light defence

THE FLOODLIGHT REPLACEMENT OF CHOICE

True to its name, the new Champion floodlight provides excellent spill light control and project flexibility. Featuring three different light distribution positions, it is an ideal choice for wide-ranging refurbishments of conventional installations – in sports and other areas.



Areas for
controlled
spill light



Recreational
sports



Multi-sports
halls



Apron
spaces



Transportation &
industrial areas



LIGHTING PROJECT FLEXIBILITY

Installation lighting requirements are dependent on the sport and the competitive level. The higher the level of competition, the greater the requirements. Designed for flexibility, Champion covers a broad range of sports lighting needs.

LIGHT JUST RIGHT FOR TV

For sports venues that host televised events, lighting is key. Since the development of HD or 4K TV, broadcasters increasingly rely on TLCI colour rendering ratings to accurately evaluate TV lighting quality. Champion scores 90+ on the TLCI scale.

WITHOUT VISOR



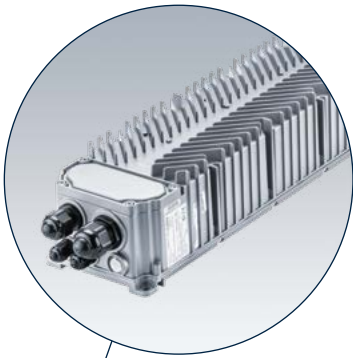
LIGHTING BY DESIGN

Champion combines powerful output with a choice of three different visor types and three light distribution designs (V1, V2, V3) to provide excellent illuminance and uniformity. A version without visor is also available.

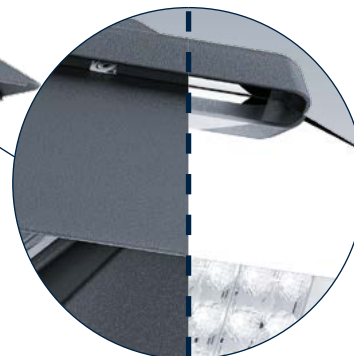
Champion	V1 55°	V2 60°	V3 65°
Without visor		Up to 117 871 lm	
Painted visor (VSP)	Up to 116 166 lm	Up to 115 030 lm	Up to 113 894 lm
Painted visor with Back Spill Control (VSP BSC)	Up to 98 983 lm	Up to 97 989 lm	Up to 96 995 lm
Reflective visor (VSR)	Up to 119 149 lm	Up to 118 439 lm	Up to 117 871 lm

DRIVEN TO PERFORM

With its compact gearbox, Champion delivers superb performance in all types of installations. Fully controllable over DALI-2 and DMX RDM, it provides instant, flicker-free lighting while also supporting stepped illumination levels as well as event and dynamic lighting scenarios.



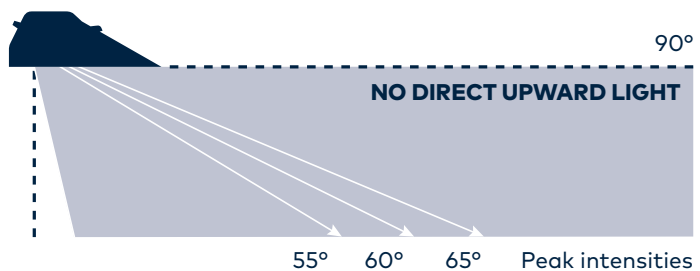
WITH AN ADDITIONAL FRONT VISOR



WITH AN ADDITIONAL REAR VISOR

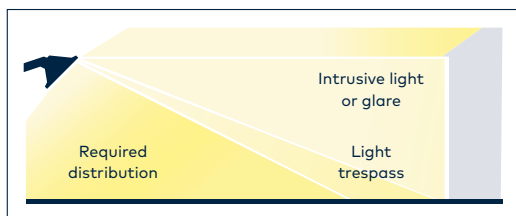
CONTROL UNWANTED LIGHT

Champion can be equipped with an anthracite painted visor (VSP) for Lambertian reflectance or a high reflectivity material visor (VSR) for specular reflection. Both offer excellent spill light control. The painted visor can be delivered as a full Back Spill Control version (with a black internal reflector and a rear visor), and with an additional front visor too.

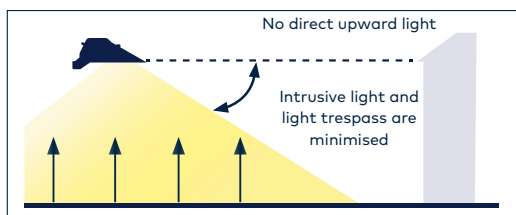


KEEPING LIGHT POLLUTION TO A MINIMUM

Champion is a genuine 'no tilt' solution for sports training and small stadium installations. Combining quality optics with flat glass technology and an integrated visor, it focusses light forward at 0° tilt with a defined cut-off to help reduce artificial sky glow, glare and intrusive light.



Components of light pollution.



Champion provides no direct upward light when not tilted.



✓ BEST PRACTICE

OBSTRUSIVE LIGHT

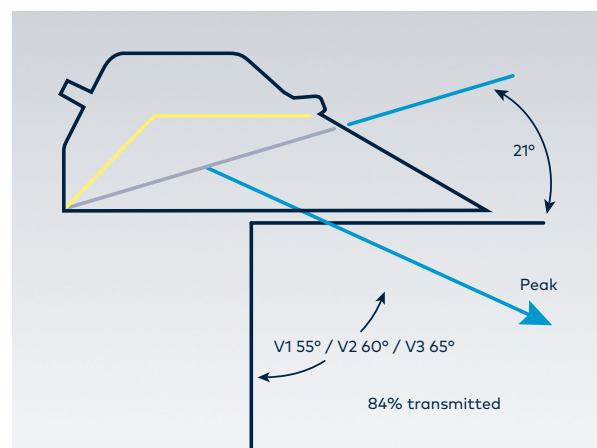
Pitches are particularly suitable for lower column heights and zero uplight lanterns.

ULR VALUES

Upward light ratio (ULR) values of lighting solutions must conform with EN 12193 environmental zone guidelines

KNOW YOUR NEEDS

Illuminance values on the pitch can range from 75 to 500 lux. It is important to know the right lighting class needed to meet specific standards.

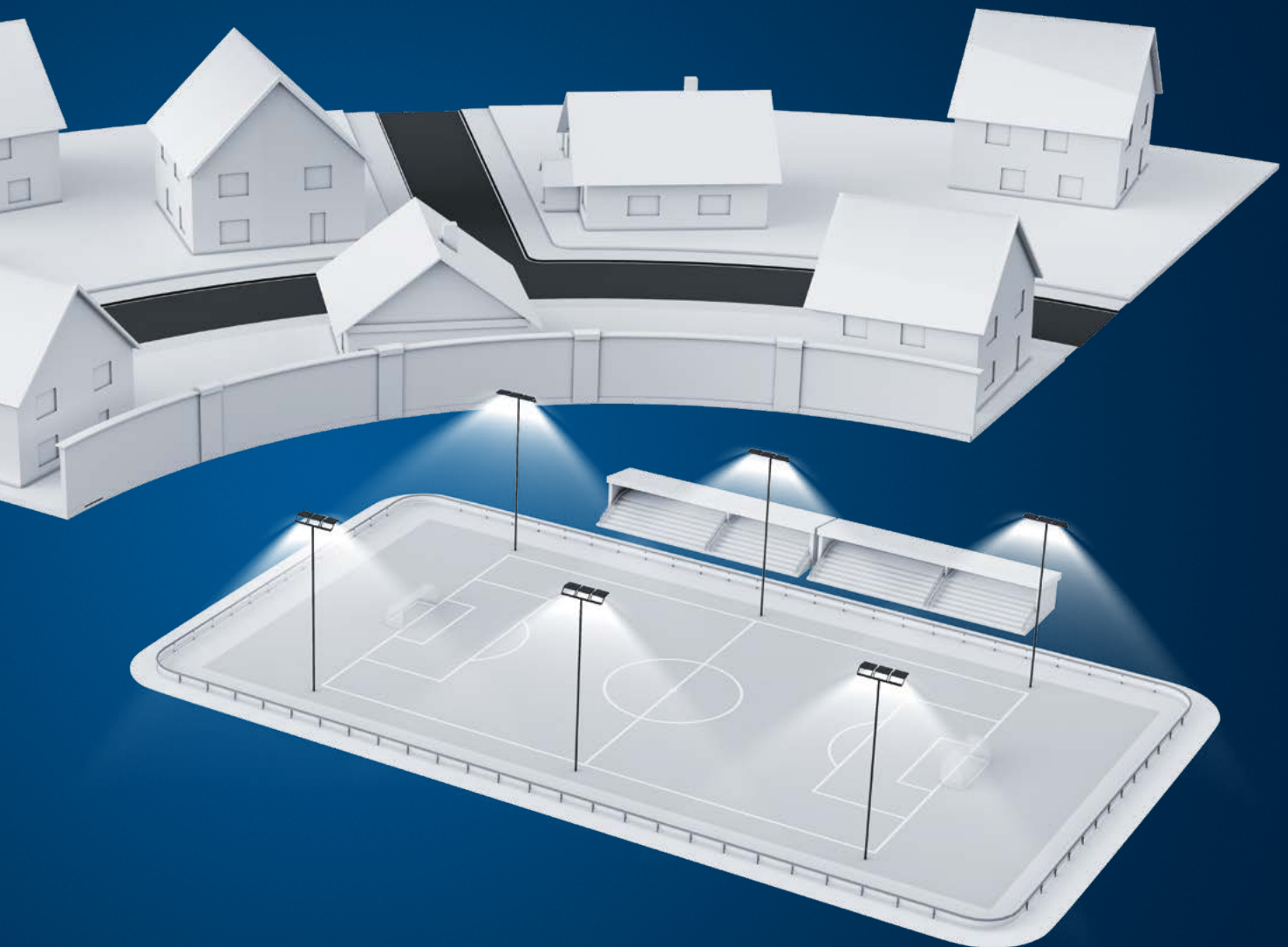


Champion "flat glass" technology



UPWARD LIGHT RATIO (ULR)

The ULR value is used to calculate the maximum permitted percentage of light that may be emitted by a luminaire or lighting installation at or above the horizontal when mounted. It defines sky glow limitations based on four environmental zone categories – E1 to E4.



CHAMPION "FLAT GLASS" TECHNOLOGY

Champion's front glass is inclined inside the floodlight. The front of the body acts as a cowl for full-cut-off and provides a 'virtual' light emitting surface which remains parallel to the ground.

IDEAL FOR REFURBISHMENTS

TRAINING AND RECREATIONAL AREAS



EXISTING INSTALLATION

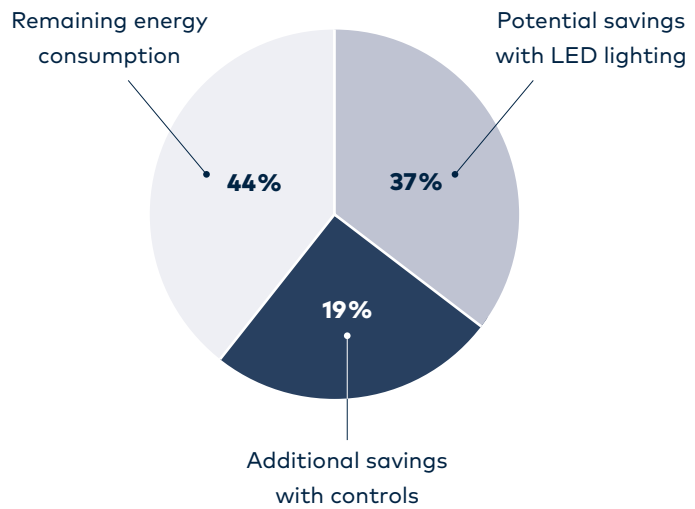
20 x 2 kW HID Floodlights
214 lux
U_o (Emin/Eave): 0.76
GR max.: 48
ULR: 0%
Controls: switching

LED REFURBISHMENT SOLUTION

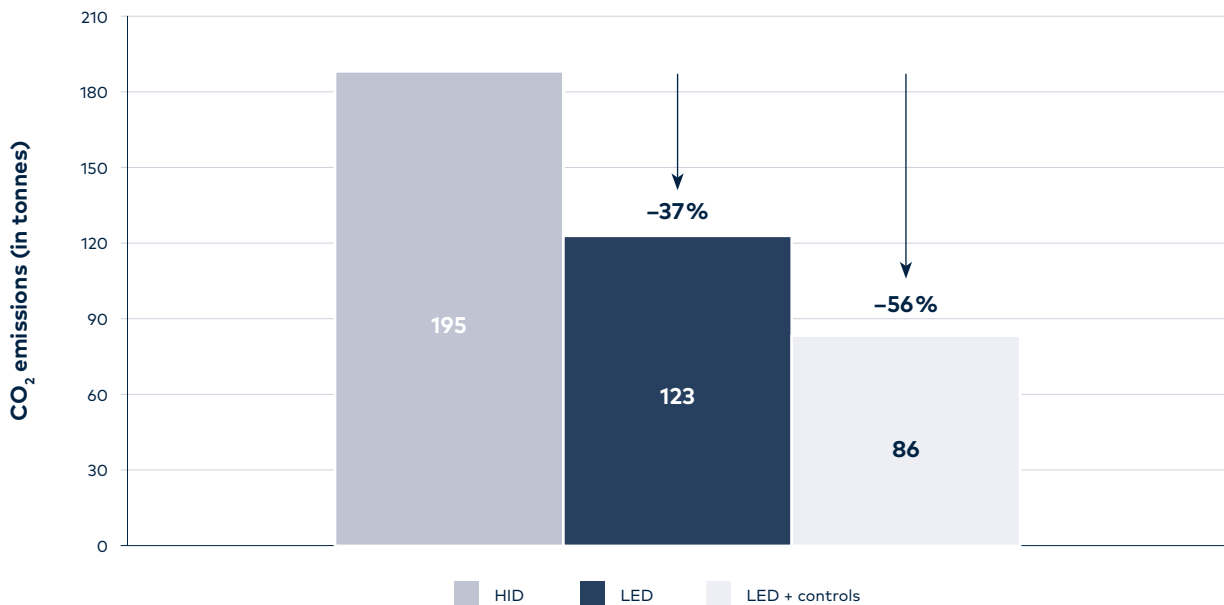
28 x Champion 938 W
218 lux
U_o (Emin/Eave): 0.71
GR max.: 46
ULR: 0%
Controls: switching / dimming

ALL-AROUND SAVINGS

Refurbishments using the Champion floodlight enable substantial savings in a number of ways, from energy consumption to CO₂ emissions. Its LED technology offers savings of more than 37% as compared to conventional lighting solutions – even more through the use of appropriate controls.

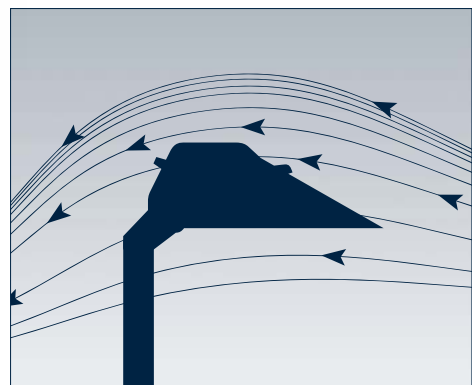


TOTAL CO₂ EMISSIONS OVER A LIFETIME (15 YEARS)

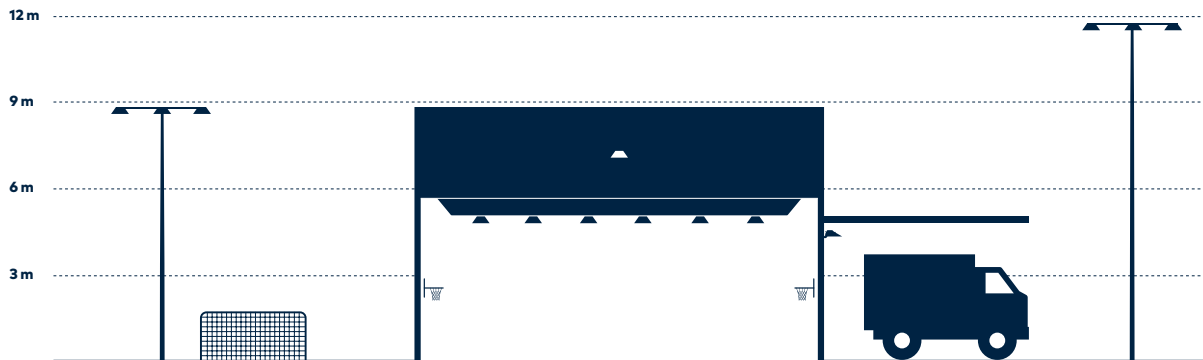


LIGHTING WITH CHAMPION

During a refurbishment project, it is important to consider the weight and windage of selected products and their suitability for existing or proposed mounting structures. Note that a floodlight mounted horizontal to the ground, as with an asymmetric distribution, helps to decrease windage and provides better control of spill light.



INSTALLATION POSSIBILITIES



Safety and simplicity are crucial when installing and maintaining a high-powered floodlight at great heights. As a complete lighting solution for both outdoor and indoor spaces, Champion is ideally

suited for a large variety of mast configurations, mountings and heights. Featuring a lighter, more compact design and improved thermal management, it is now even easier to install.

ACCESSORIES



BIRD DETERRENT

Prevents birds from landing on and damaging the floodlight.



AIMING DEVICE

A mechanical visor enabling targeted floodlight aiming.



MEMORY SETTING

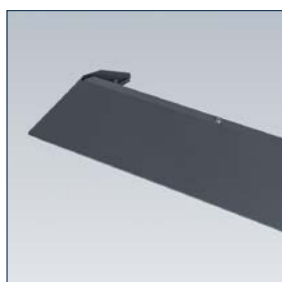
A ring to fixate the targeted tilt position.



DRIVER STIRRUP MOUNTING BRACKET

Enables gearbox mounting to the floodlight stirrup.

VISORS



FRONT VISOR

An add-on to deeper cut the front spill on the VSP version.



REAR VISOR

An add-on to deeper reduce the back spill on the VSP version.

DISCOVER

CHAMPION



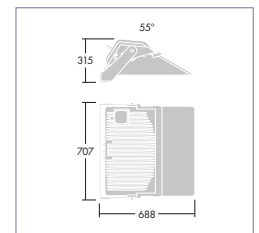
	VSP (PAINTED VISOR)	VSR (REFLECTIVE VISOR)	VSP BSC (PAINTED VISOR BACK SPILL CONTROL)	WITHOUT VISOR
	Up to 116 166 lm	Up to 119 149 lm	Up to 98 983 lm	Up to 117 871 lm
	Up to 151 lm/W	Up to 155 lm/W	Up to 129 lm/W	Up to 154 lm/W
	3000 K / 4000 K / 5700 K			
CRI	70 / 80 / 90			
TLCI	Up to 90+			
	IP66			
	-40 to +45 °C			
	IK08			
	Ball proof			
	10 kV surge voltage protection			
	22.4 kg without gearbox	22.4 kg without gearbox	22,5 kg without gearbox	20,41 kg without gearbox
	Resistant to sea side and swimming pool environment			
	Up to 100 000 h L90B10			
	V1 55° / V2 60° / V3 65° (not available for the version without visor)			
	Scx = 0,196 m²	Scx = 0,196 m²	Scx = 0,196 m²	Scx = 0,158 m²
	Texturized anthracite different RAL on request			
	DALI-2, DMX RDM			



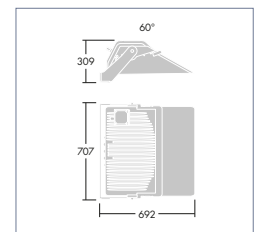
CONFIGURATION GUIDE

LUMINAIRE

CHAMPION	264L	757	V2	VSR	ANT
Range	LED	CCT/CRI	Light distribution	Visor	Colour
					ANT Texturised anthracite GY Texturised light grey BK Texturised black Rxxxx Different RAL on request
				-	Without visor
				VSR	Reflective visor
				VSP	Painted visor
				VSP BSC	Painted visor with back spill control
			-	Without visor	
			V1	55°	
			V2	60°	
			V3	65°	
		730	CRI 70 3000 K		
		830	CRI 80 3000 K		
		740	CRI 70 4000 K		
		840	CRI 80 4000 K		
		757	CRI 70 5700 K		
		857	CRI 80 5700 K		
		957 - T86	CRI 90 5700 K - TLCI 86		
		957 - T90	CRI 90 5700 K - TLCI 90		
	264L	264 LEDs			
CHAMPION	Product range				



CHAMPION V1 55°

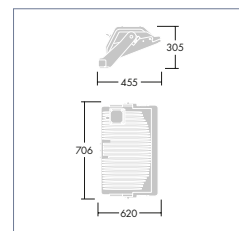


CHAMPION V2 60°

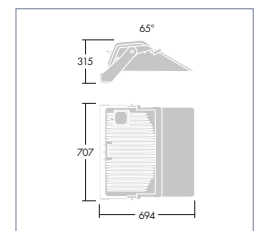
GEARBOX

GB	264L	85	200-400	DA
Range	Power	mA	Voltage	Controls
				DA DALI-2 and autonomous dimming
				RDMX DMX RDM
			200-400	Voltage range
		120	1200 mA*	
		105	1050 mA*	
		85	850 mA*	
		70	700 mA*	
		55	550 mA*	
	264L	1000 W - 264 LEDs		
GB	Gearbox			

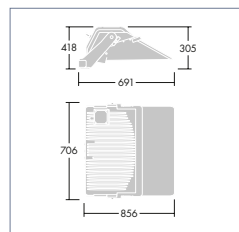
*The ambient temperature and the power rating have an influence on the useful lifetime of the luminaire.



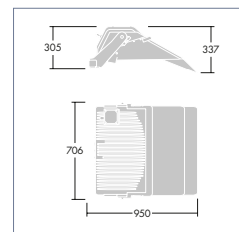
CHAMPION WITHOUT VISOR



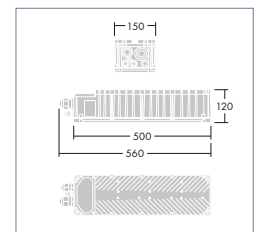
CHAMPION V3 65°



CHAMPION VSP BSC



WITH FRONT AND REAR VISOR



GEARBOX

Configure the ideal product solution with myProduct. The myProduct configurator allows you to quickly and easily configure the luminaire to suit your individual needs. Try it now at www.thornlighting.com/myproduct



As a globally leading luminaire manufacturer, Thorn Lighting provides a five-year warranty for its complete product range within all European Countries.
thornlighting.com/guarantee

Thorn Lighting is constantly developing and improving its products. All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract. The right is reserved to change specifications without prior notification or public announcement. All goods supplied by the company are supplied subject to the company's General Conditions of Sale, a copy of which is available on request. All measurements are in millimetres and weights in kilograms unless otherwise stated.
 10/2021 (INT)

**WE
MAKE
LIGHT
WORK**