

**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.



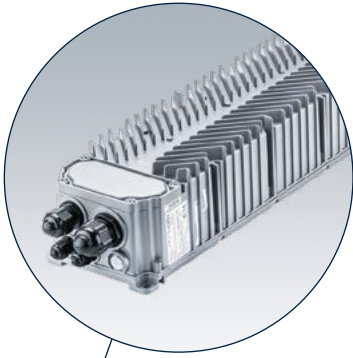
## LIGHTING BY DESIGN

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.

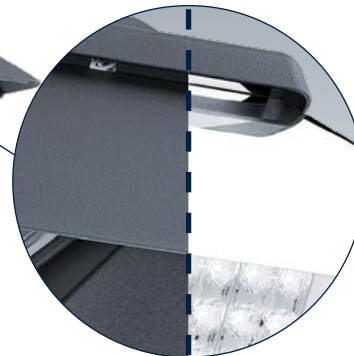
Champion	V1 55°	V2 60°	V3 65°
Without visor	Up to 117 871 lm		
Painted visor (VSP)	Up to 116 166 lm	Up to 115 030 lm	Up to 113 894 lm
Painted visor with Back Spill Control (VSP BSC)	Up to 98 983 lm	Up to 97 989 lm	Up to 96 995 lm
Reflective visor (VSR)	Up to 119 149 lm	Up to 118 439 lm	Up to 117 871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



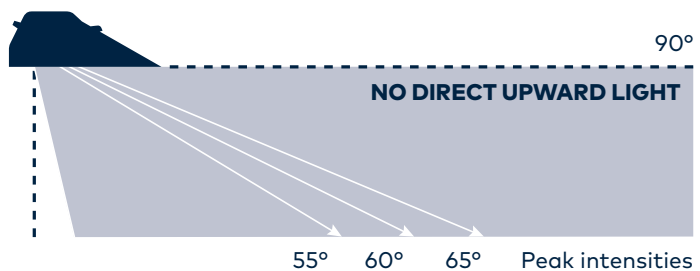
WITH AN ADDITIONAL FRONT VISOR



WITH AN ADDITIONAL REAR VISOR

## CONTROL UNWANTED LIGHT

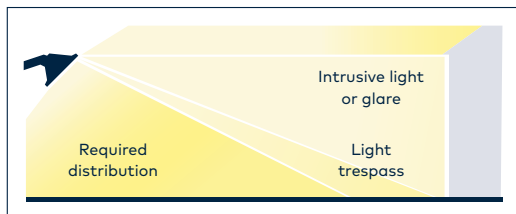
Champion can be equipped with an anthracite painted visor (VSP) for Lambertian reflectance or a high reflectivity material visor (VSR) for specular reflection. Both offer excellent spill light control. The painted visor can be delivered as a full Back Spill Control version (with a black internal reflector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



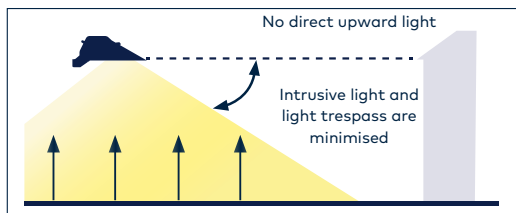


# KEEPING LIGHT POLLUTION TO A MINIMUM

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

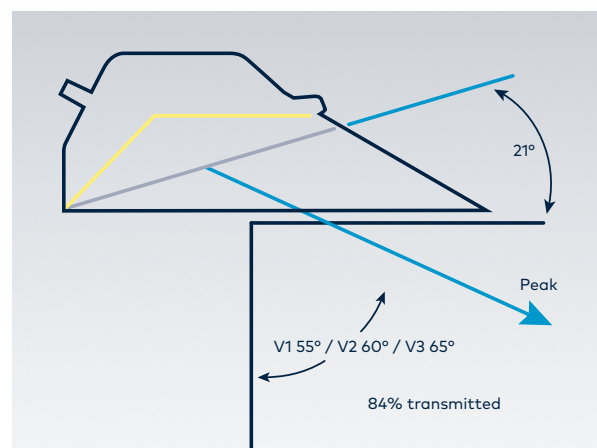
Pitches are particularly suitable for lower column heights and zero uplight lanterns.

### 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.

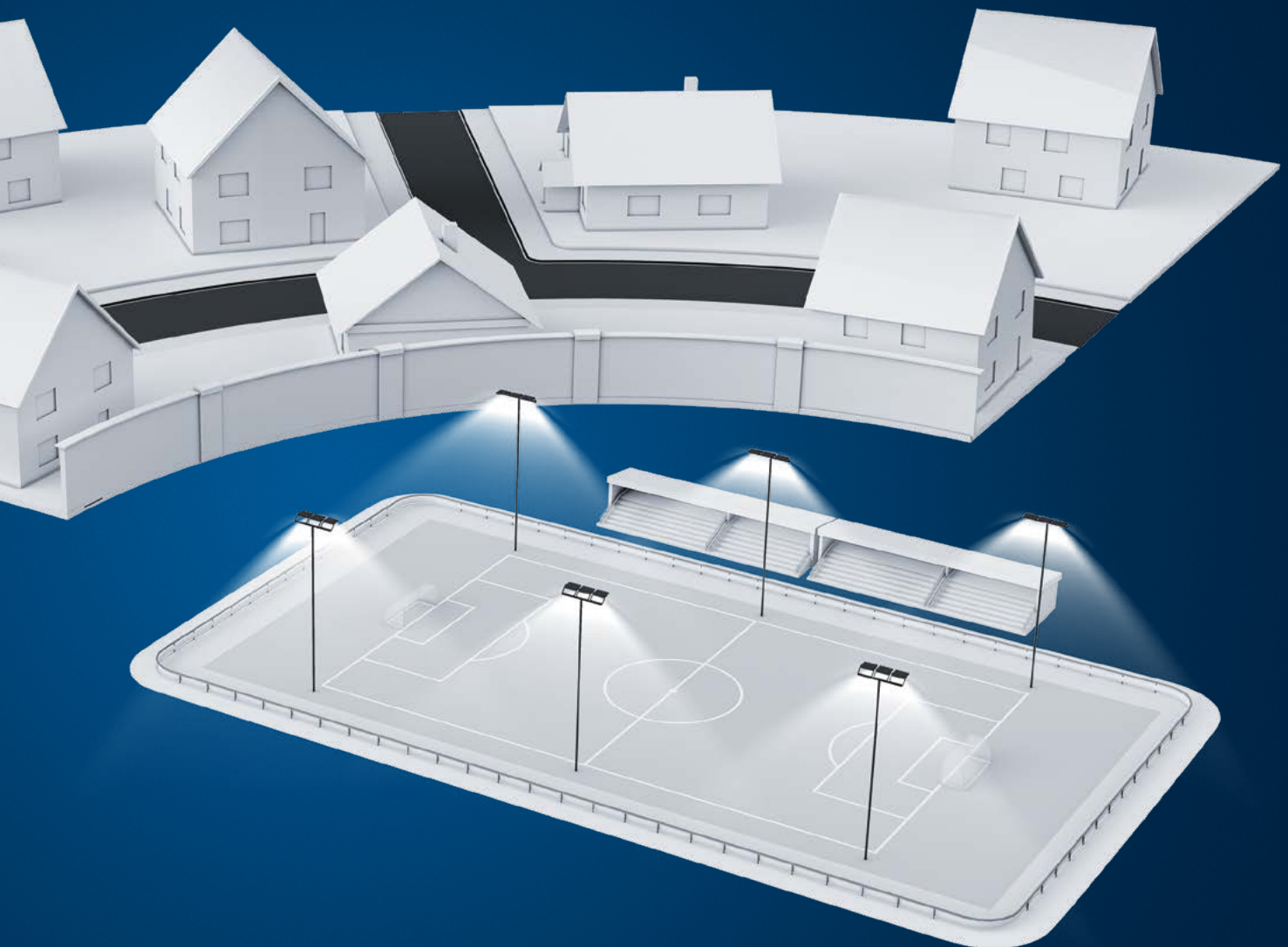


Champion "flat glass" technology



### **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<sub>o</sub> (Emin/Eave): 0.76  
GR max.: 48  
ULR: 0%  
Controls: switching

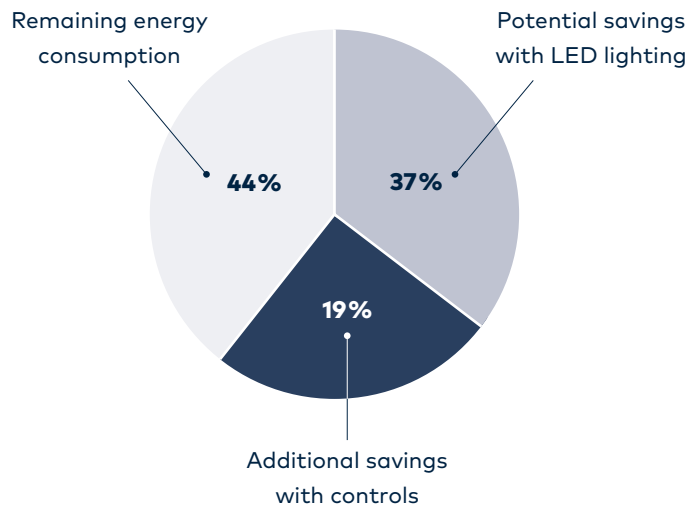
## LED REFURBISHMENT SOLUTION

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

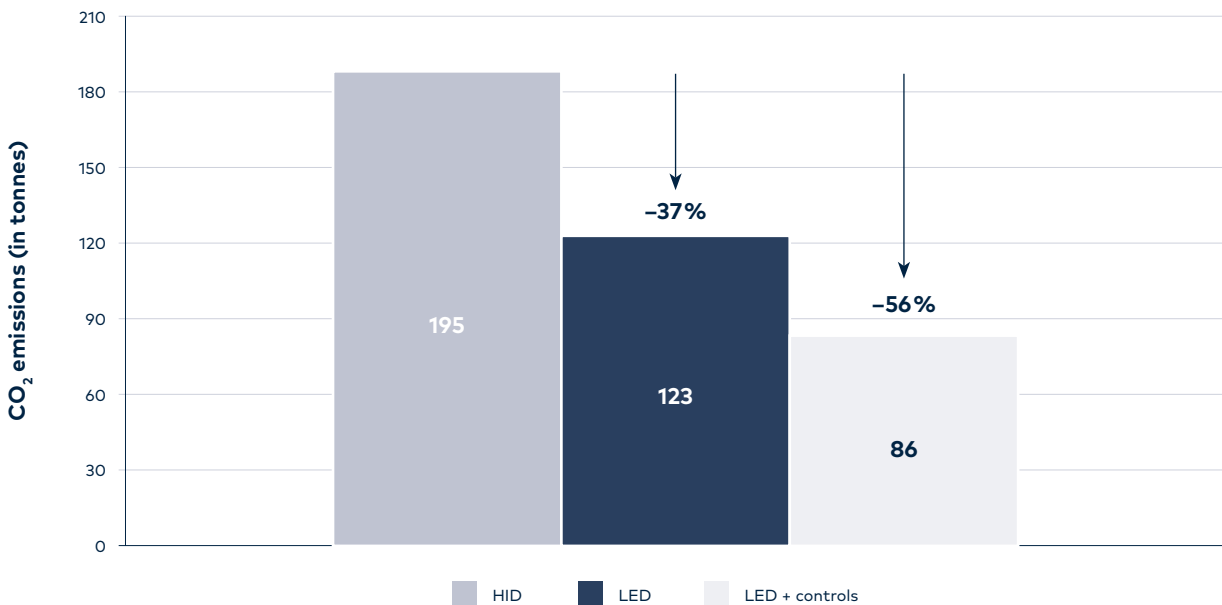


### ALL-AROUND SAVINGS

Refurbishments using the Champion floodlight enable substantial savings in a number of ways, from energy consumption to CO<sub>2</sub> emissions. Its LED technology offers savings of more than 37% as compared to conventional lighting solutions – even more through the use of appropriate controls.

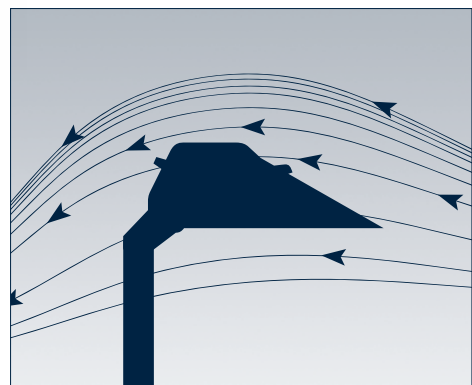


### TOTAL CO<sub>2</sub> EMISSIONS OVER A LIFETIME (15 YEARS)

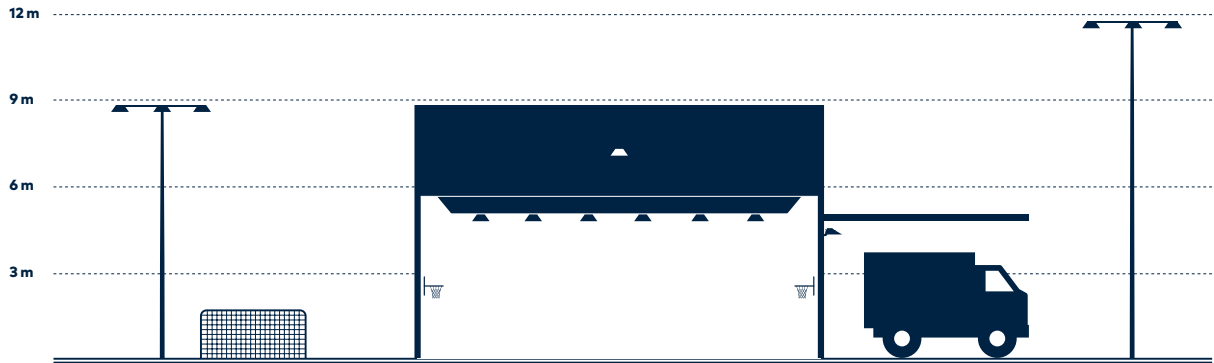


### LIGHTING WITH CHAMPION

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.



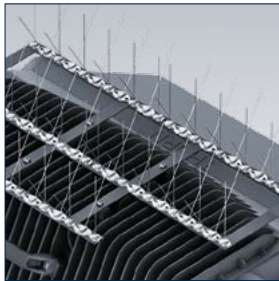
# INSTALLATION POSSIBILITIES



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

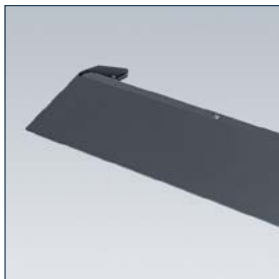
A ring to fixate the targeted tilt position.



### 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			
<b>CRI</b>	70			
	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

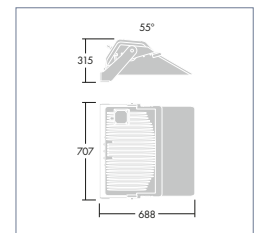
## LUMINAIRE

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

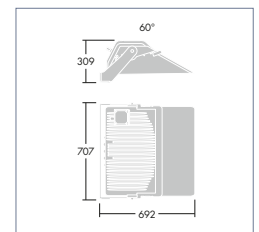
## GEARBOX

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

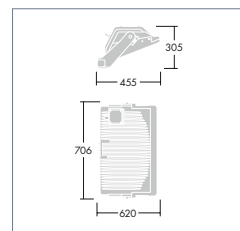
\*The ambient temperature and the power rating have an influence on the useful lifetime of the luminaire.



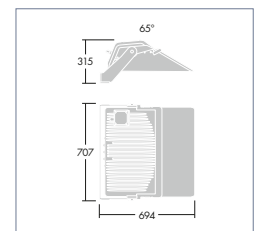
**CHAMPION V1 55°**



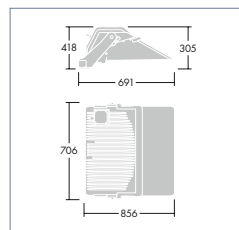
**CHAMPION V2 60°**



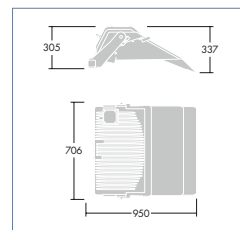
**CHAMPION WITHOUT VISOR**



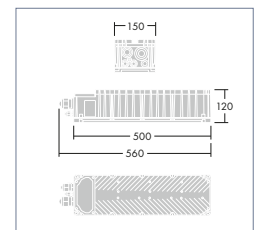
**CHAMPION V3 65°**



**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](http://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](http://thornlighting.com/guarantee)

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MAKE  
LIGHT  
WORK**