

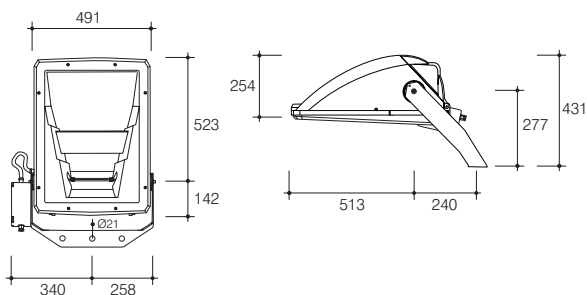
# Challenger<sup>®</sup> 1

## AL5760



A double asymmetric distribution Flat Glass floodlight range specially designed for side lighting of sports areas and large area lighting applications.

### Dimensions (mm)



### Weight & Windage

Weight (Max in range):  
20kg including control gear  
Windage: 0.126m<sup>2</sup> (Flat Glass)  
0.135m<sup>2</sup> (+10° Elevation)

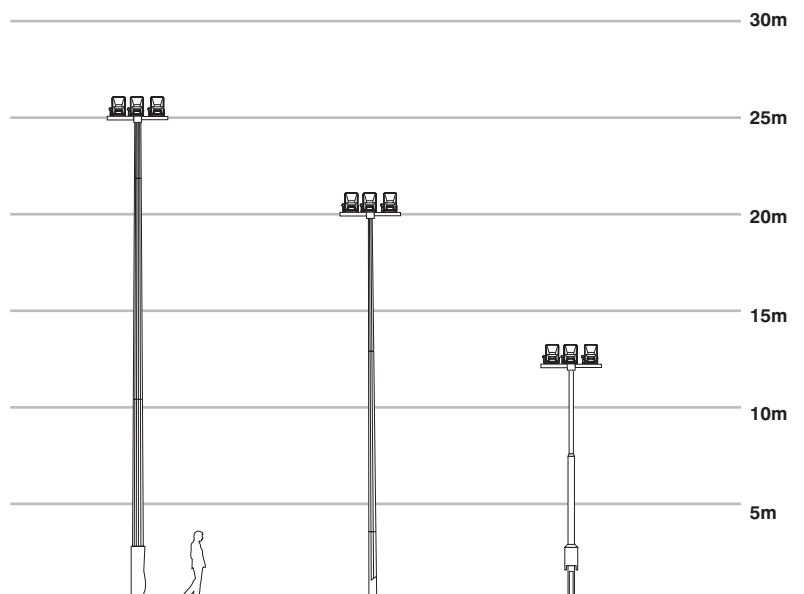
### Mounting

Stirrup mounted using M20 fixing  
Stirrup adjustment +/- 140°

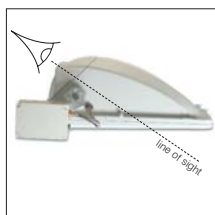
### Aiming

Separate protractor device for  
accurate setting of elevation angle

### Mounting Height (m)

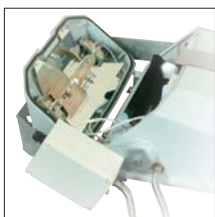


Compatible with a range of columns and mast systems up to 30m including:  
Hydraulic raising & lowering columns (10m - 12m)  
HL series base hinged raising and lowering mast (12m - 30m)  
GL series base hinged raising and lowering mast (18m - 30m)  
Raising and lowering winch mast (15m - 30m)



Two aiming methods:

1. In-built line of sight aiming feature
2. Separate aiming protractor ensures optimum targeting of individual floodlights to achieve the desired lighting levels.



Easy lamp changing via opening back cover using a clip system ensures ease of maintenance.

## Features

- Body of high pressure die cast aluminium, finished in light grey (RAL7035), Polyester powder coating
- Reflector system of high purity, polished and anodised aluminium. Incorporating an internal baffle to improve efficiency and reduce glare
- Toughened front glass, secured by cast aluminium front frame
- Galvanised steel stirrup, with additional elevation locking screws
- Designed to accept a large range of double ended lamps
- Electrical connection box (IP66) housing ignitor, located on side of stirrup, fitted with 2 x "hi-flo" breathers

## Applications

- All weather pitches
- Sports grounds
- Golf course
- Ports & harbours
- Distribution areas
- Airport aprons
- Railway yards

## Lamp & Gear

### Lamp Options (Long Arc)

MHN-LA: 1kW, 2kW  
HQI-TS: 2kW  
MH-TS: 2kW

### Gear

Remote control gear/  
integral ignitor

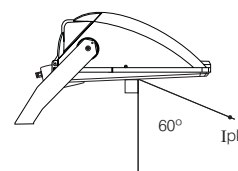
### Access

Easy access for re-lamping via opening of the rear cover. Positive closure via large stainless steel catch

## Lighting Distribution

Available in 3 beam distributions:

- Double Asymmetric Narrow Beam
- Double Asymmetric Medium Beam
- Double Asymmetric Wide Beam




The main beam is emitted from the floodlight at an angle of 60° forward from the normal to the front glass, resulting in a flatter appearance.

The benefit is that less of the reflector is visible to spectators and onlookers, resulting in low glare to the surrounding locality.

The "Flat Glass" ensures no direct upward light, restricting sky glow.

# Technical Specifications

## Challenger® 1 AL5760 Series

	Lamp Wattage & Type	Lamp Holder	Description	Weight* (kg)	Windage* (m²)
AL5761	Philips 2kW MHN-LA 2000/842	X528 cable	Narrow Beam	20.0	0.126@60°
AL5762	Philips 2kW MHN-LA 2000/842	X528 cable	Medium Beam	20.0	0.126@60°
AL5763	Philips 2kW MHN-LA 2000/842	X528 cable	Wide Beam	20.0	0.126@60°
AL5764	Osram 2kW HQI-TS2000WNL	K12s-7	Narrow Beam	20.0	0.126@60°
AL5765	Osram 2kW HQI-TS2000WNL	K12s-7	Medium Beam	20.0	0.126@60°
AL5766	Osram 2kW HQI-TS2000WNL	K12s-7	Wide Beam	20.0	0.126@60°
AL5767	Venture 2kW 2000W/L/K12/4K	K12s-7	Narrow Beam	20.0	0.126@60°
AL5768	Venture 2kW 2000W/L/K12/4K	K12s-7	Medium Beam	20.0	0.126@60°
AL5769	Venture 2kW 2000W/L/K12/4K	K12s-7	Wide Beam	20.0	0.126@60°
AL5770	Philips 1kW MHN-LA 1000/842	X528 cable	Narrow Beam	20.0	0.126@60°
AL5771	Philips 1kW MHN-LA 1000/842	X528 cable	Medium Beam	20.0	0.126@60°
AL5772	Philips 1kW MHN-LA 1000/842	X528 cable	Wide Beam	20.0	0.126@60°

\*Max. in Range

Challenger® 1 is a registered design in the following countries:

Austria	RegD No 38431	Greece	RegD No 6000682
Benelux	RegD No 32055-01	Hong Kong	RegD No 9911680.2M001
Canada	RegD No 92129	India	RegD No 182049
China	RegD No 00301204.2	Spain	RegD No 147.552
Denmark	RegD No MR2000796	Sweden	RegD No 66654
Eire	RegD No D13051	Switzerland	RegD No 126663
France	RegD No 001139	UK	RegD No 2086396
Germany	RegD No 49911610.0	USA	RegD No D441889