

# The lightwing LED Sports & High Mast Floodlight

Lighting For The Next Generation

Looking For Global Agents



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## Seeing the best you can be

An innovative LED floodlight designed for highmast multifunctional lighting applications, supporting HD TV broadcasting standards for illumination of all sports. The lightwing is an aerodynamic profile made from marine grade aluminum for long life, low maintenance demands.

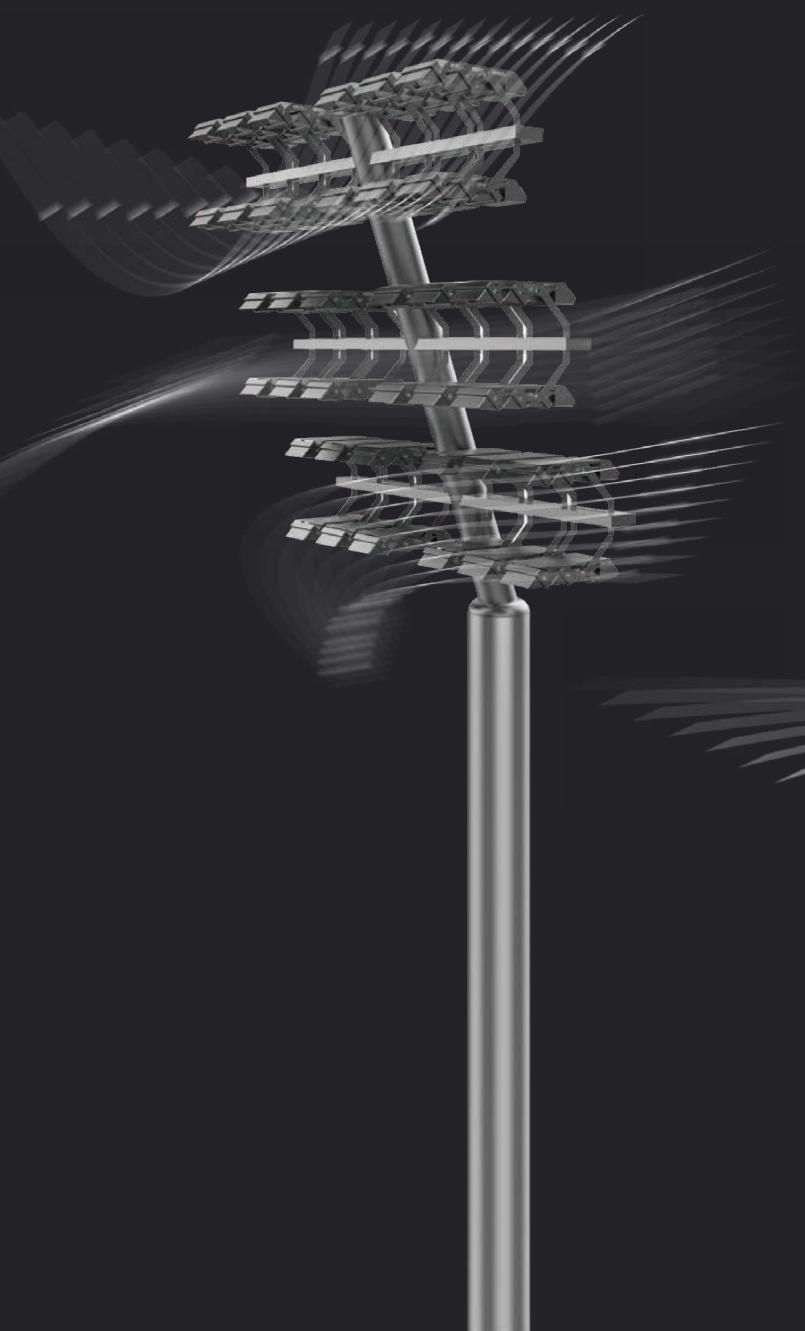
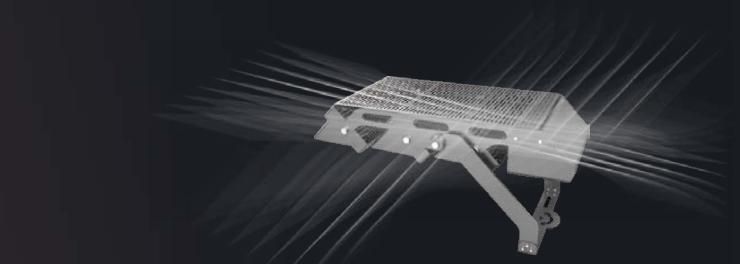
**Its unique design is the first dynamic profile which allows for retrofitting to most existing lighting columns due to its low weight and low windage characteristics.**

With high lighting performance standards plus an array of control options, the lightwing is the ideal solution for Sports arenas, Airports, Ports and Industrial environments.



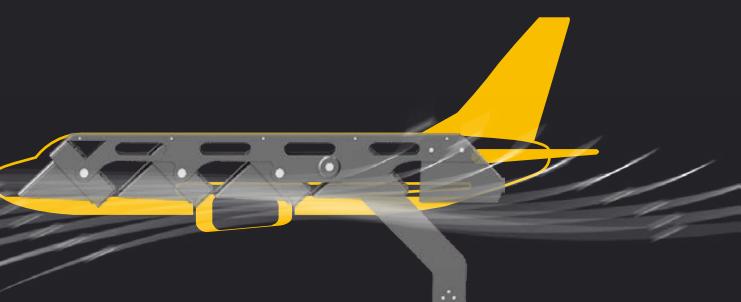
## Aerodynamics Matter

The design of the lighting column is dependant on the weight and profile of the luminaire. The safety of columns in high winds and harsh weather environments is critical in any applications. Upgrading to LED luminaires requires new considerations beyond energy savings and lux levels, it is never a simple swap out. However, replacing your lighting with luminaires of less weight and a smaller windage area than existing luminaires is a starting point.



## What is lightwing?

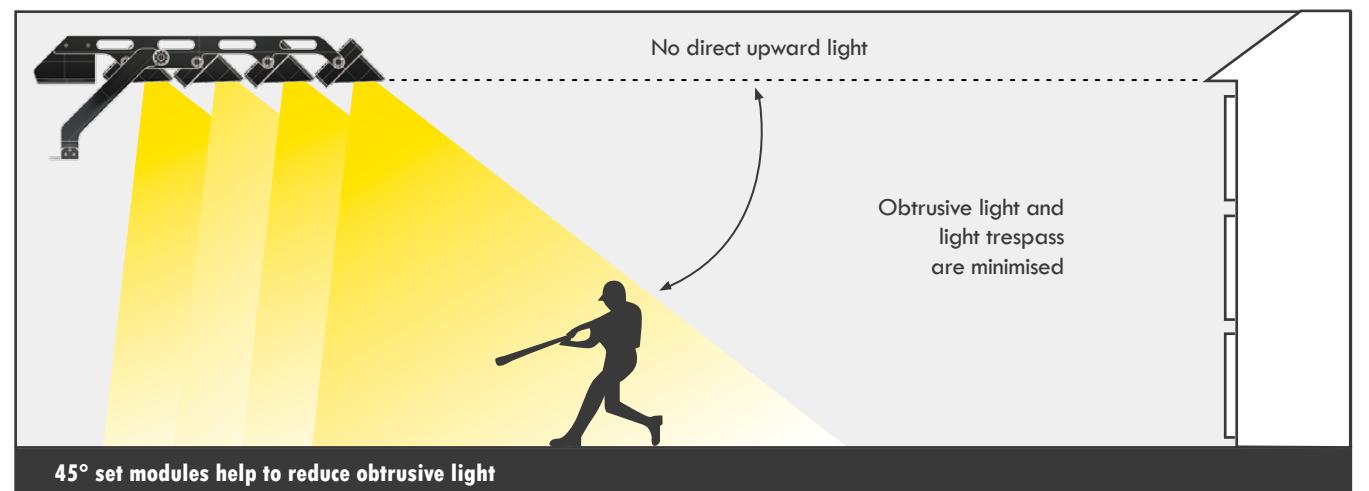
Inspired by the aerodynamic design of aircraft to allow for the smooth flow of air over its lightweight aluminium profile, delivering high performance illumination effortlessly.



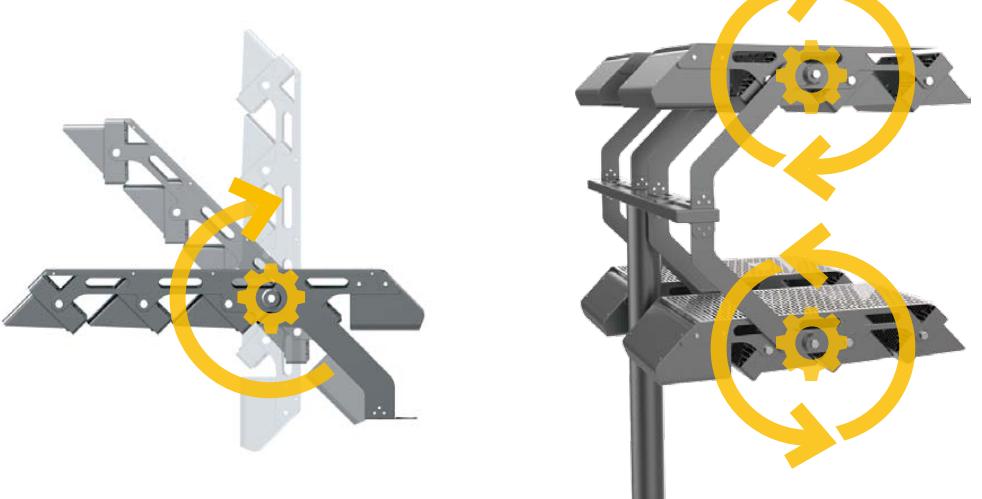
The innovative design concept of this lightwing floodlight takes the performance of asymmetric floodlight to the next level by combination with on-pitch performance with the control of obtrusive light.



lightwing's modules are 45° to vertical, with the front face providing an anti obtrusive light barrier. This barrier dramatically reduces the visibility of the led light source from outside the area of play



Besides, lightwing's bracket arms is 90° movable from X-bar to meet the illumination requirement of the central light area when the high mast is far away from the playground.



## OUTSTANDING PERFORMANCE IN SPORTS & HIGH MAST LIGHTING

### Benefits

- High quality of light output
- Efficient performance delivery
- Lower energy costs and reduced carbon emissions
- Long life with minimal maintenance costs
- Advanced control options of each luminaire
- Suitable for new or most existing masts/columns
- Made for the harshest environments
- Low glare with minimal overspill
- Bespoke version available

### Features

- Lumileds LED
- Up to 160lm/w
- High control rendering with up to 92 CRI
- Instant start or gradual start option
- Aerodynamic profile with low windage figures
- Easy to install and focus
- Flexible design to suit all applications

### Applications



STADIUMS  
ARENAS



OUTDOOR SPORTS



MULTI SPORTS  
HALLS



SWIMMING  
POOLS



HARBOR  
WHARF



AIRPORTS



UP TO  
160LM/W



40/70/100K  
HOURS L80/B10



3000 K  
4000 K  
5700 K



74  
80  
92



60% LESS WEIGHT  
THAN TYPICAL FIXTURES



20KV SURGE  
PROTECTION



IK10



IP67



-45 °C  
+55 °C



Flicker Free



UP TO 95+



NB, MB, WB  
A1

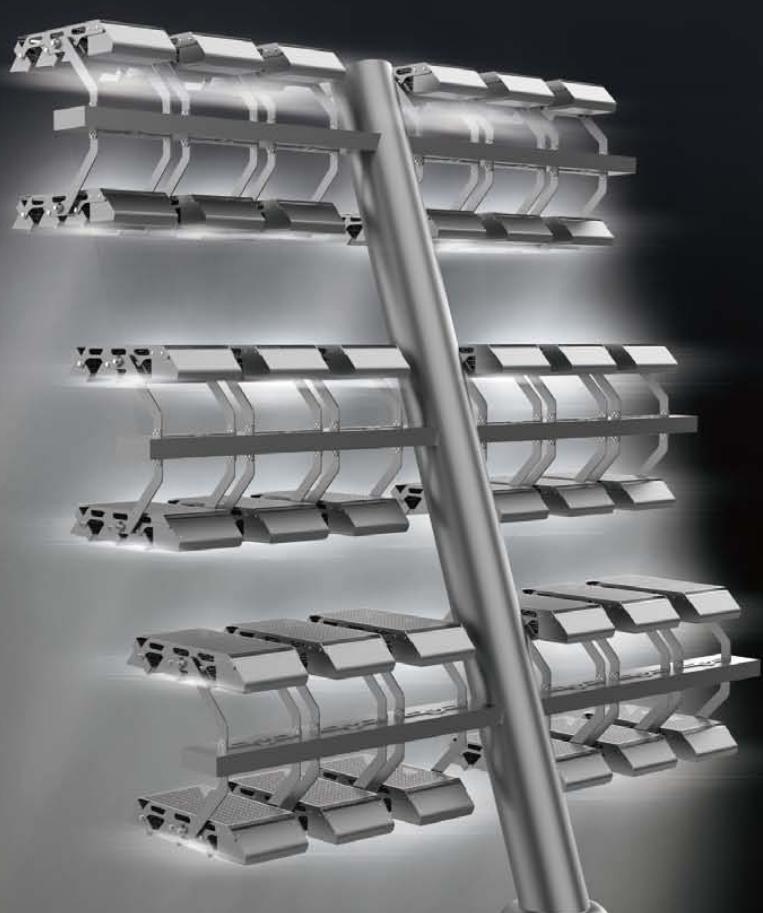
## What are the advantages of lightwing?

Currently up to 1500W of power easily replaces any conventional MH/HID lamps used in existing stadiums. A retrofit which minimises any additional infrastructural costs to upgrade

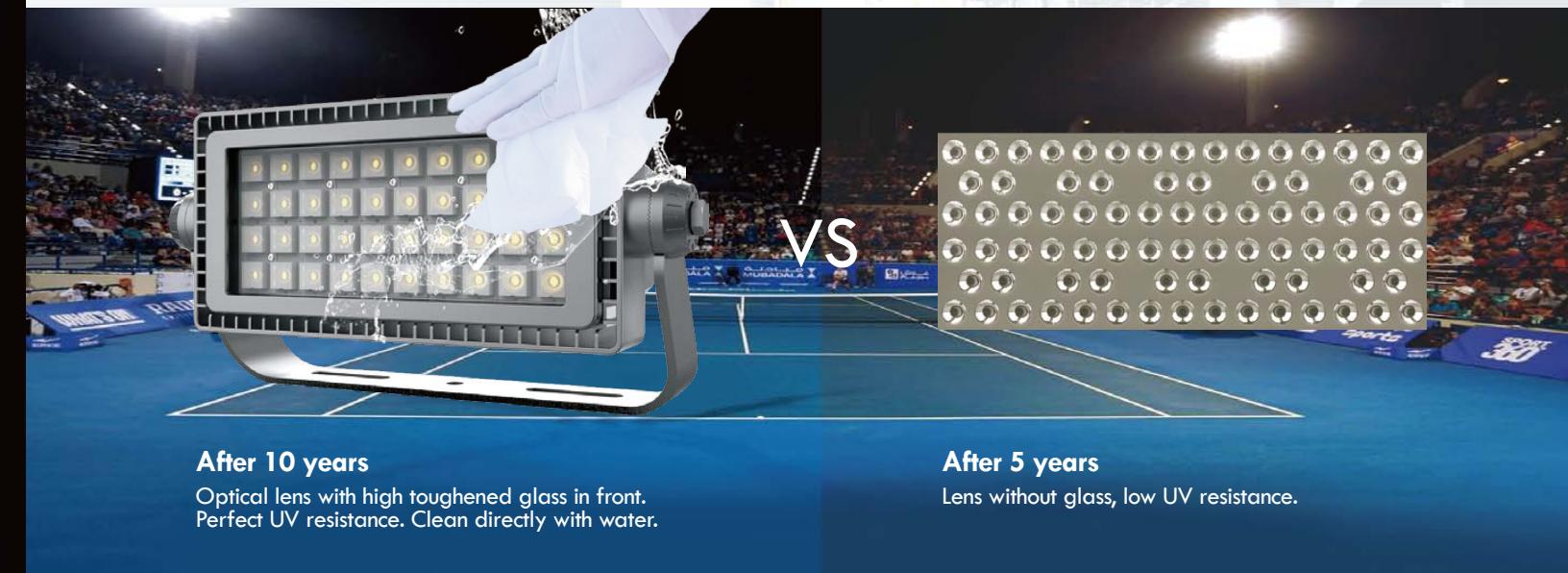
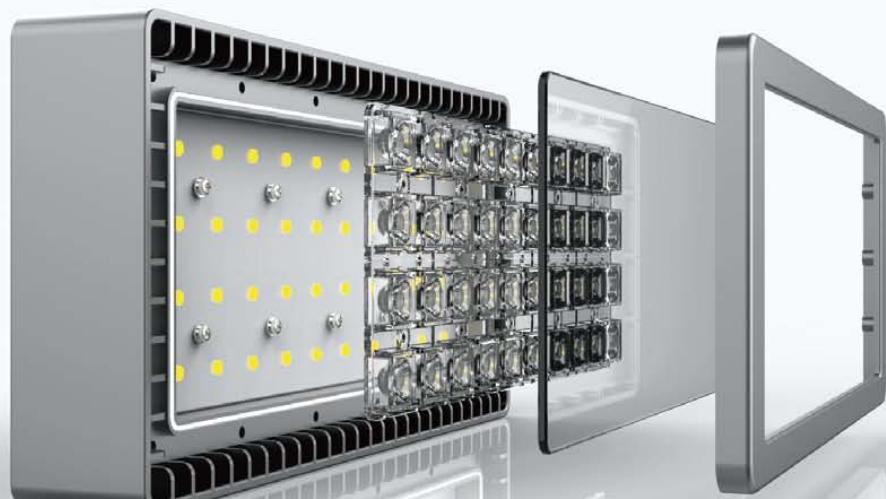
### 150W-1200W LED VS 500W-2500W MH/HID



### 800W-1500W for new built stadiums



**98% transparency** 3mm extra clear high toughened glass. Real UV resistance and anti-corrosion even in extreme harsh environment. The robust protection for lens and easy for cleaning away dust



#### After 10 years

Optical lens with high toughened glass in front. Perfect UV resistance. Clean directly with water.

**Wire guard** to avoid any unidentified damages and enhance the safety of luminaire. Prevent any objects from colliding and breaking the glass.



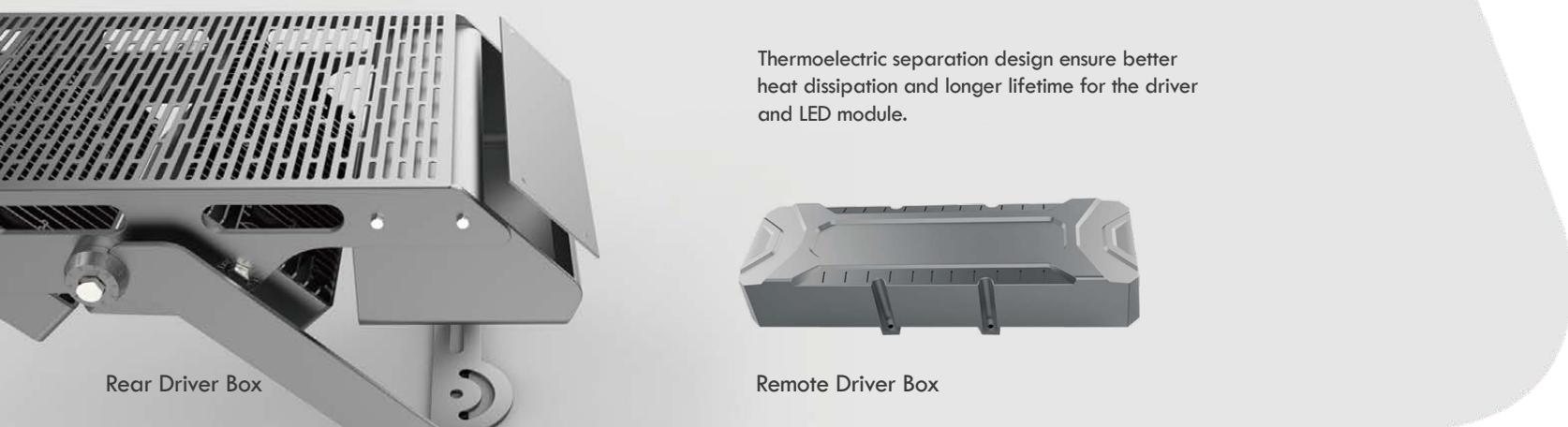
**Double anti-glare:** Our patent custom-engineered precise optical lens with controlled intensity and uniformity delivers super comfortable light with ultra-low glare value. Unique **glare control grid** upon the lens and **aluminum visor** over the head of luminaire can dramatically reduce glare again.



Housing body and heatsink are forged from high purity aluminium which makes lightwing lighter and smaller. Which both improves installation safety and reduces maintenance



Akzo Nobel powder coating finish guarantees the best anti corrosive finish for up to 25 years

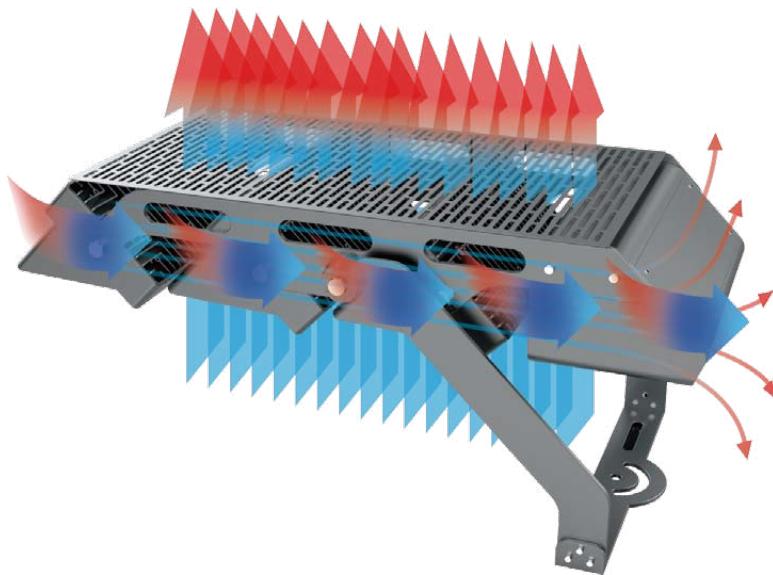
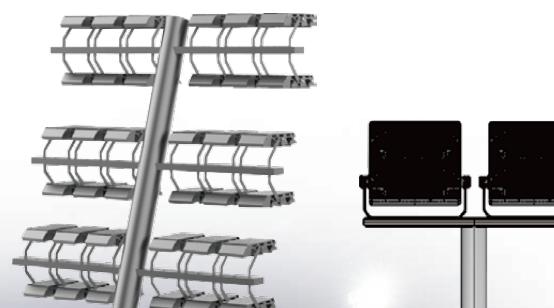


Thermoelectric separation design ensure better heat dissipation and longer lifetime for the driver and LED module.



Remote Driver Box

Remote drivers can be located up to **40m** away from luminaire



Heatsinks specifically designed for effective vertical air convection with a broad heat radiation surface area. Ensuring a lifespan up to 100,000hrs. The ultra low windage profile delivers excellent passive cooling

Patented designed high strength die-casting **trim lock** enables a fast and apt installation angle adjustments for lightwing. Different from other typical fittings that fastened by one iron screw and nut, it uses AISI316 parts to fasten the fitting and bracket. Passed wind speed test >60m/s. Resist up to **level-17** hurricane



**Aiming Focusing System**

Contractors can now install the lighting during the day and be confident they can meet the lighting design specification with pin point accuracy. Allows for accurate repositioning should lights need to be repositioned at a later date.



Aluminum **rear cover** can fully protect the modules from direct rain and prevent damage from bird nesting and dropping's corrosion.

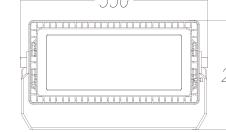
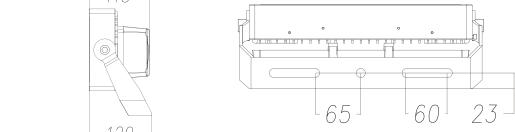
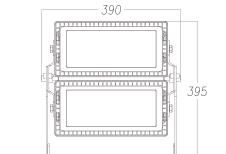
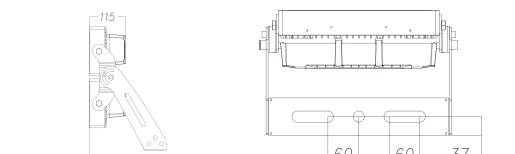
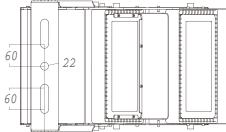
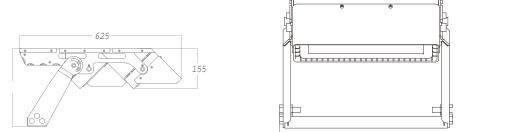
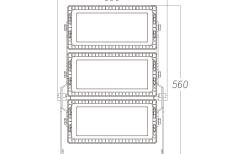
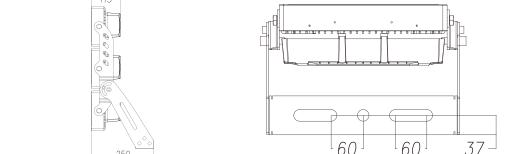
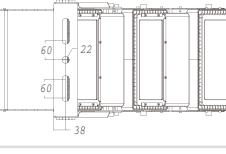
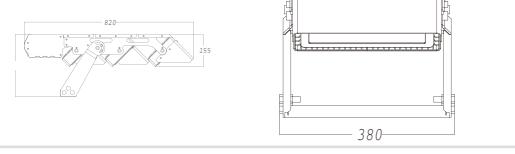
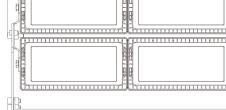
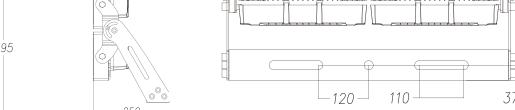
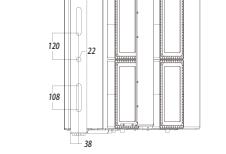
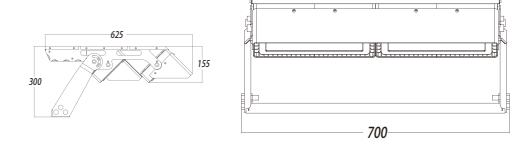
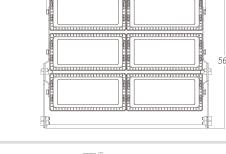
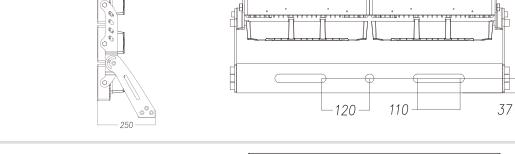
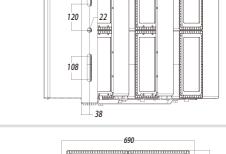
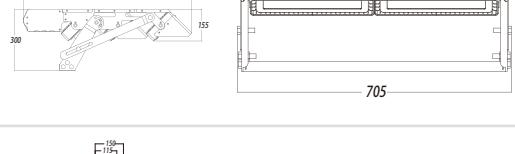
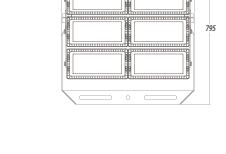
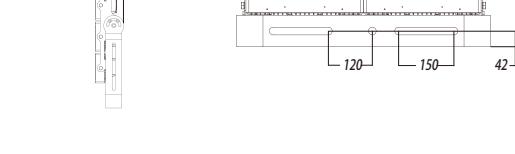


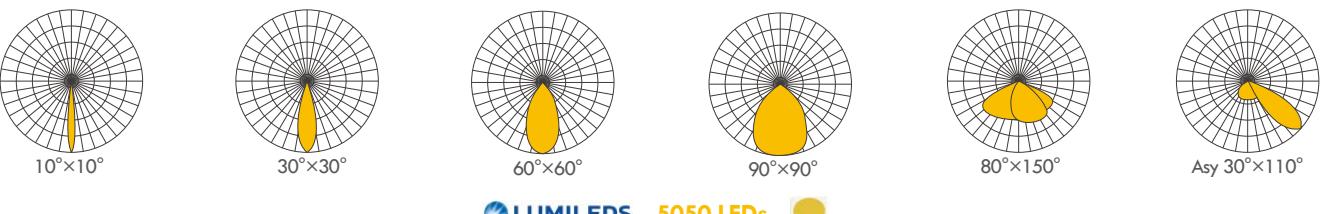
Designed with self cleaning slots to ensure no build up of water or particles over time



Various installation brackets to meet all requirements



Model	Picture	Front View	Side View	Top/Bottom View
LW-200 LWA-150 <b>1 LED Module</b>		 350 205 115 120	 65 60 23	
LW-400 LWA-300 <b>2 LED Modules</b>		 390 395 115 250 60 60 37		
LW-400 Pro LWA-300 Pro <b>2 LED Modules</b>		 60 22 60 625 155 380		
LW-600 LWA-450 <b>3 LED Modules</b>		 390 560 115 250 60 60 37		
LW-600 Pro LWA-450 Pro <b>3 LED Modules</b>		 60 22 60 820 155 380		
LW-800 LWA-600 <b>4 LED Modules</b>		 710 395 115 250 120 110 37		
LW-800 Pro LWA-600 Pro <b>4 LED Modules</b>		 120 22 108 625 155 300 700		
LW-1200 LWA-900 <b>6 LED Modules</b>		 660 565 115 250 120 110 37		
LW-1200 Pro LWA-900 Pro <b>6 LED Modules</b>		 120 22 108 625 155 300 705		
LW-1600 LWA-1200 <b>8 LED Modules</b>		 690 795 115 120 150 42		

**Beam Spread****LUMILEDS 5050 LEDs**

	LW-200 (1 module)	LW-400 (2 modules)	LW-600 (3 modules)	LW-800 (4 modules)	LW-1200 (6 modules)	LW-1600 (8 modules)	LW-2000 (10 modules)
System Power (Wattage)	200W	400W	600W	800W	1200W	1600W	2000W
Replaces (MH/HID)	500W±	900W±	1500W±	2000W±	2500W±	3500W±	5000W±
Ligting Efficiency							
Delivered Lumen (LM)	32,000lm	64,000lm	96,000lm	128,000lm	192,000lm	256,000lm	320,000lm
Input Voltage (V)							
Power Factor							
Color Temperature (Kelvin)							
CRI							
Beam Angles							
Net Weight (with drivers)	5.0kg	10.5kg, 14.0kg (Pro)	15.0kg, 18.0kg (Pro)	22.0kg, 25.0kg (Pro)	26.0kg, 33.2kg (Pro)	46.0kg	N/A
Net Weight (without drivers)	3.8kg	7.7kg, 12.0kg (Pro)	12.0kg, 15.0kg (Pro)	17.5kg, 20.5kg (Pro)	21.0kg, 30.0kg (Pro)	39.0kg	N/A
EPA/Wind Area (m²)	0.028	0.06, 0.03 (Pro)	0.12, 0.093 (Pro)	0.16, 0.13 (Pro)	0.24, 0.21 (Pro)	0.31	N/A
Operating Temp (°C)							
Surge Protection Device							
Ingress protection (IP)							
Housing Color							
Hardware Materials							
Electrical Insulation Class							
Dimming Control							
Surface Treatment							
Expected Life Span (hrs)							
Warranty							

**LUMILEDS 5050 LEDs**

	LWA-150 (1 module)	LWA-300 (2 modules)	LWA-450 (3 modules)	LWA-600 (4 modules)	LWA-900 (6 modules)	LWA-1200 (8 modules)	LWA-1500 (10 modules)
System Power (Wattage)	150W	300W	450W	600W	900W	1200W	1500W
Replaces (MH/HID)	400W±	1000W±	1200W±	1500W±	2000W±	2500W±	3000W±
Ligting Efficiency							
Delivered Lumen (LM)	24,000	48,000	72,000	96,000	144,000	192,000	240,000
Input Voltage (V)							
Power Factor							
Color Temperature (Kelvin)							
CRI							
Beam Angles							
Net Weight (with drivers)	5.0kg	10.5kg, 14.0kg (Pro)	12.0kg, 9.0kg (Pro)	22.0kg, 25.0kg (Pro)	26.0kg, 33.2kg (Pro)	46.0kg	N/A
Net Weight (without drivers)	3.8kg	7.7kg, 12.0kg (Pro)	18.0kg, 15.0kg (Pro)	17.5kg, 20.5kg (Pro)	22.0kg, 35.9kg (Pro)	39.0kg	N/A
EPA/Wind Area (m²)	0.028	0.06, 0.03 (Pro)	0.12, 0.093 (Pro)	0.16, 0.13 (Pro)	0.24, 0.21 (Pro)	0.31	N/A
Operating Temp (°C)							
Surge Protection Device							
Ingress protection (IP)							
Housing Color							
Hardware Materials							
Electrical Insulation Class							
Dimming Control							
Surface Treatment							
Expected Life Span (hrs)							
Warranty							

**OSRAM 3737 LEDs**

	LW-200 (1 module)	LW-400 (2 modules)	LW-600 (3 modules)	LW-800 (4 modules)	LW-1200 (6 modules)	LW-1600 (8 modules)	LW-2000 (10 modules)
System Power (Wattage)	200W	400W	600W	800W	1200W	1600W	2000W
Replaces (MH/HID)	500W±	900W±	1500W±	2000W±	2500W±	3500W±	5000W±
Ligting Efficiency							
Delivered Lumen (LM)	32,000lm	64,000lm	96,000lm	128,000lm	192,000lm	256,000lm	320,000lm
Input Voltage (V)							
Power Factor							
Color Temperature (Kelvin)							
CRI							
Beam Angles							
10°							
74/80/92							
Net Weight (with drivers)	5.0kg	10.5kg, 14.0kg (Pro)	12.0kg, 9.0kg (Pro)	22.0kg, 25.0kg (Pro)	26.0kg, 33.2kg (Pro)	46.0kg	N/A
Net Weight (without drivers)	3.8kg	7.7kg, 12.0kg (Pro)	18.0kg, 15.0kg (Pro)	17.5kg, 20.5kg (Pro)	22.0kg, 35.9kg (Pro)	39.0kg	N/A
EPA/Wind Area (m²)	0.028	0.06, 0.03 (Pro)	0.12, 0.093 (Pro)	0.16, 0.13 (Pro)	0.24, 0.21 (Pro)	0.31	N/A
Operating Temp (°C)							
Surge Protection Device							
Ingress protection (IP)							

## Where lightwing is Greatness Needs To Be Seen

