



# Joytech Products Co., Ltd.

Floodlight



## Lodestar Series

Specification Sheet

### Product Introduction

Used in the past as a guide to navigators, LODESTAR is a bright, easily found star. As outdoor lighting series have to be, LODESTAR street light and flood light are beautiful, cost-saving, and with an incredible long life-span. Lodestar floodlight series is in fact one of the brightest LED in the world, going up to an astonishing lumens of 14400. Integrated with a patented aerospace structural design, and providing consistent light intensity and high performance even in extreme climates, Lodestar floodlight is ideal

for large outdoor areas including external wall, gardens, harbours and sport fields. Furthermore, We are proud to announce that it has launched a revolutionary product called LED Grow Light. Also under the Lodestar floodlight series, our Grow Light changes the way we grow plants indoor. By providing much less heat, Lodestar Grow Light consumes less power by delivering the perfect effects that included Red, Green and Blue. This will consequently provide a much more efficient and fast growing.

### Certificates



### Features

- ✓ IP68 waterproof standard.
- ✓ Integration of a patented aerospace structural design ensures optimal cooling.
- ✓ Original high-power LED chips.
- ✓ CRI 80 high-brightness.
- ✓ PFC values up to 0.99 offering a stable voltage output.

### Application

- ✓ Tunnel Lighting.
- ✓ Parking Applications.
- ✓ Canopy Lighting
- ✓ Wash Lighting.

## Specifications

Item	Specification	Details
Output	Beam Angle	10°, 15°, 20°, 24°, 25°, 30°, 38°, 45°, 50°, 60°, 80°, 90°, 130°, 135°, 120°x50°, 135°x50°, 120°x60°
	Colour Range	TW / NW / WW
	Lumen Maintenance	50,000 hours
Electrical	Input Voltage	12V DC ( For Solar Power System ) 24V DC ( For Solar Power System ) 100 ~ 240V AC
	Power Consumption	25, 30, 46, 50, 72, 75, 92, 100, 145, 150 Watts
Physical	Weight	3.5 kg ( 25, 30 Watts ) 5 kg ( 46, 50 Watts ) 6.5 kg ( 72, 75, 92, 100 Watts ) 8 kg ( 145, 150 Watts )
	Lens	Optics PMMA
	Operating Temperature	-40° F to 121° F (-40°C to 50°C) -85° F to 121° F (-65°C to 50°C) (Optional)
	Humidity	0 – 95%, non-condensing
Certification and Safety	Certifications	ETL, CE, FCC, LVD, RoHS, DLC Laser Testing, IP68, PSE, SAA
	Environment	Suitable for damp location
	Warranty	3 years
Length limit	12VDC : T25, T50, T75 → 6m T100 → 5m T150 → 3m	
<b>Two Million Worldwide Product Liability Insurance.</b>		

## Optical Characteristics

### Dominant Wavelength (nm) or Colour Temperature (K)

#### EPISTAR LED chips

Correlated Colour Temperature	Min.	Typ.	Max.
True White	4750K	5700K	10000K
Natural White	3250K	4000K	4750K
Warm White	2500K	2700K	3250K

#### BRIDGELUX LED chips

Correlated Colour Temperature	Min.	Typ.	Max.
True White	4750K	5600K	7000K
Natural White	3700K	4100K	4750K
Warm White	2850K	3000K	3700K

#### CREE LED chips

Correlated Colour Temperature	Min.	Typ.	Max.
True White	5000K	6000K	10000K
Natural White	3700K	4300K	5000K
Warm White	2600K	3000K	3700K

#### LUXEON LED chips

Correlated Colour Temperature	Min.	Typ.	Max.
True White	5000K	6000K	6500K
Natural White	3500K	4500K	5000K
Warm White	2700K	3000K	3500K

## Lamp Luminous Flux

### 12VDC / 24V DC / 100 ~ 240V AC

Chipsets	EPISTAR					
Power Consumption	25 W	50 W	75 W	100 W	150 W	
Beam Angle	130°					
True White	CRI 70	1150 lm	2300 lm	3450 lm	4600 lm	6900 lm
Natural White	CRI 70	1000 lm	2000 lm	3000 lm	4000 lm	6000 lm
Warm White	CRI 70	800 lm	1600 lm	2400 lm	3200 lm	4800 lm

Chipsets	BRIDGELUX					
Power Consumption	30 W	46 W	72 W	92 W	145 W	
Beam Angle	130°					
True White	CRI 65	1900 lm	2700 lm	4050 lm	5400 lm	8100 lm
Natural White	CRI 80	1650 lm	2300 lm	3450 lm	4600 lm	6900 lm
Warm White	CRI 82	1500 lm	2000 lm	3000 lm	4000 lm	6000 lm

Chipsets	CREE XB-D					
Power Consumption	25 W	46 W	72 W	92 W	145 W	
Beam Angle	10° / 20° / 30° / 45° / 60° / 90° / 130° / 135° / 120°x50° / 135°x50° / 120° x 60°					
True White	CRI 70	1650 lm	3300 lm	4950 lm	6600 lm	9900 lm
Natural White	CRI 80	1500 lm	3000 lm	4500 lm	6000 lm	9000 lm
Warm White	CRI 80	1250 lm	2500 lm	3750 lm	5000 lm	7500 lm

Chipsets	LUXEON Rebel ES					
Power Consumption	25 W	46 W	72 W	92 W	145 W	
Beam Angle	15° / 24° / 30° / 50° / 60° / 90° / 130° / 135° / 120°x50° / 135°x50° / 120° x 60°					
True White	CRI 80	1750 lm	3500 lm	5250 lm	7000 lm	10500 lm
Natural White	CRI 80	1600 lm	3200 lm	4800 lm	6400 lm	9600 lm
Warm White	CRI 80	1350 lm	2700 lm	4050 lm	5400 lm	8100 lm

Chipsets	CREE XT-E					
Power Consumption	25 W	46 W	72 W	92 W	145 W	
Beam Angle	15° / 20° / 30° / 45° / 50° / 60° / 80° / 90° 130° / 120° x 60° / 120° x 50° / 135° x 50°					
True White	CRI 70	1900 lm	3800 lm	5700 lm	7600 lm	11400 lm
Natural White	CRI 80	1750 lm	3500 lm	5250 lm	7000 lm	10500 lm
Warm White	CRI 80	1450 lm 2900 lm 4350 lm 5800 lm 8700 lm				
		2200 K				
		1350 lm	2700 lm	4050 lm	5400 lm	8100 lm
	CRI 90	1160 lm	2300 lm	3500 lm	4600 lm	7000 lm

Chipsets	OSRAM Square					
Power Consumption	25 W	46 W	72 W	92 W	145 W	
Beam Angle	25° / 38° / 45° / 50° / 60° / 80° / 90° / 130° / 135° / 120° x 50° / 135°x50° / 120°x60°					
True White	CRI 70	2200 lm	4400 lm	6600 lm	8800 lm	13200 lm
Natural White	CRI 70	2000 lm	4000 lm	6000 lm	8000 lm	12000 lm
Warm White	CRI 80	1750 lm 3500 lm 5250 lm 7000 lm 10500 lm				
		2400K				
		1400 lm	2800 lm	4200 lm	5600 lm	8400 lm
	CRI 92	1400 lm	2800 lm	4200 lm	5600 lm	8400 lm

Chipsets	LUXEON Tx					
Power Consumption	25 W	46 W	72 W	92 W	145 W	
Beam Angle	20° / 25° / 38° / 60° / 90° / 130° / 135° / 135°x50° / 120°x60°					
True White	CRI 70	2200 lm	4400 lm	6600 lm	8800 lm	13200 lm
Natural White	CRI 70	2000 lm	4000 lm	6000 lm	8000 lm	12000 lm
Warm White	CRI 80	1750 lm	3500 lm	5250 lm	7000 lm	10500 lm

### LUXEON Tx LED Chips

Correlated Colour Temperature	Min.	Typ.	Max.
True White	4500K	5650K	10000K
Natural White	3500K	4100K	4500K
Warm White	2540K	3100K	3500K




### OSRAM LED Chips

Correlated Colour Temperature	Min.	Typ.	Max.
True White	5000K	6000K	7000K
Natural White	3500K	4000K	5000K
Warm White	2700K	3000K	3500K

Chipsets	CREE XP-L					
Power Consumption	25 W	46 W	72 W	92 W	145 W	
Beam Angle	20° / 38° / 60° / 90° / 130° / 120° x 50° / 135°x50° / 120°x60°					
True White	CRI 65	2400 lm	4800 lm	7200 lm	9600 lm	14400 lm
Natural White	CRI 75	2150 lm	4300 lm	6450 lm	8600 lm	12900 lm
Warm White	CRI 80	1950 lm	3900 lm	5850 lm	7800 lm	11700 lm

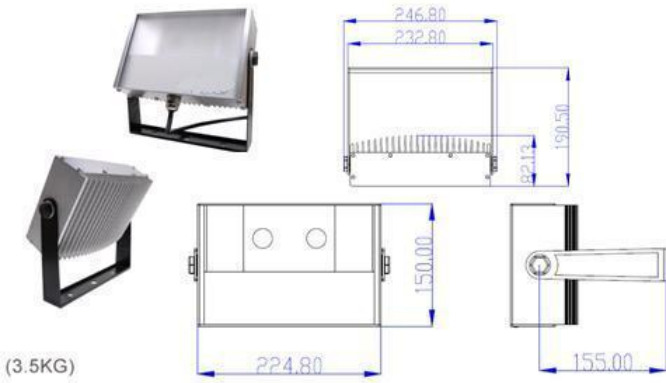
※All Lamp Luminous Flux Data are indicated in max values.

## Accessories

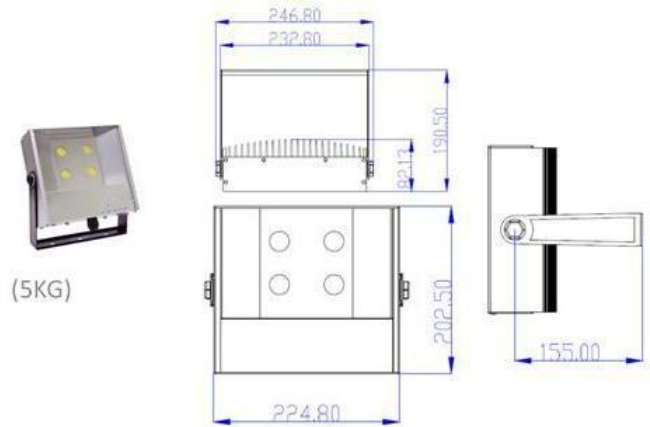
Category	Model Name	Photo
Stainless steel	Stainless steel Stand	
SPD	Surge Protective Device (SPD)	
Adapter	Waterproof Cable Adapter	

# Mechanical Dimensions

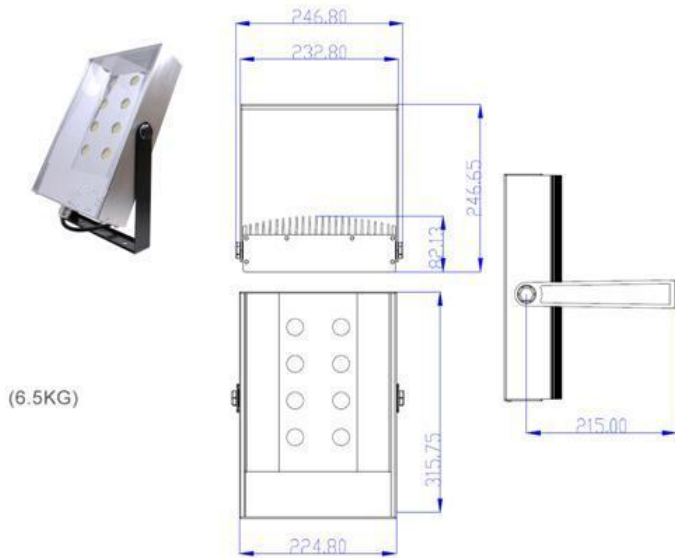
**F02t25**



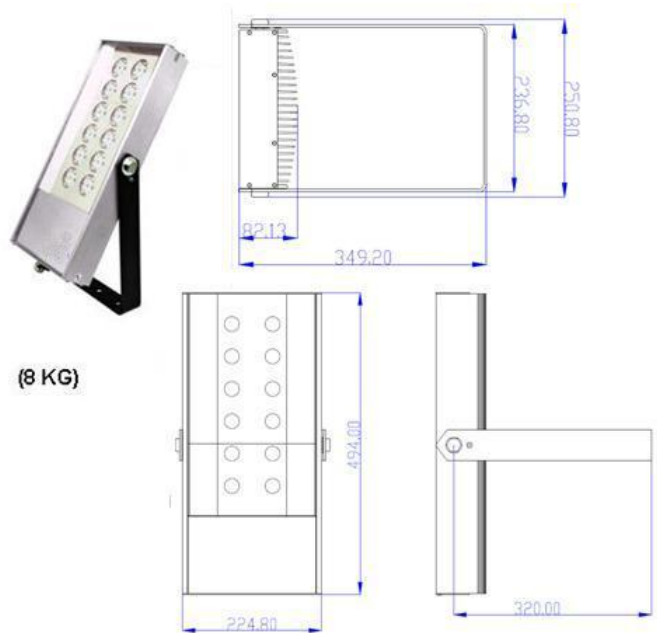
**F02t50**



**F02t75**  
**F02t100**



**F02t150**



**JOYTECH PRODUCTS CO.,LTD**

1F, No.15, Lane 27, Sec.3 Chung-king South Rd., Taipei 100, Taiwan, R.O.C

Tel : 886-2-23582899 Fax : 886-2-23415778

E-Mail : sales@joytech-jpc.com.tw Website : www.joytech-jpc.com.tw