Manuals+ — User Manuals Simplified.

HYPERLITE Lumens MARS SERIES LED FLOOD LIGHT Installation Guide

Contents

HYPERLITE Lumens MARS SERIES LED FLOOD LIGHT


LED FLOOD LIGHT MARS Series

FEATURES & SPECIFICATIONS

The MARS series LED floodlight is designed to provide a cost-effective, energy-efficient solution for illuminating building facades, sign lighting, wall washing building exteriors, and landscape lighting. MARS luminaires deliver a uniform, wide flood distribution.
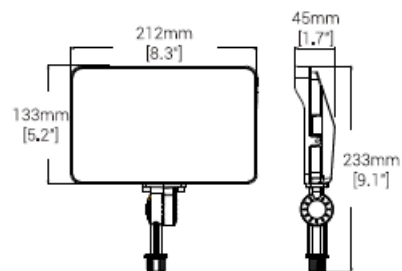
Model	CES-LS-VN-30W	CES-LS-VN-50W	CES-LS-VN-70W	CES-LS-VN-100W
Lumens	3300 lm	5500 lm	7700 lm	11000 lm
Model	CES-LS-VN-150W	CES-LS-VN-200W	CES-LS-VN-240W	
Lumens	18000 lm	24000 lm	28800 lm	
CCT	5000K			
CRI	>70			
Beam angle	120°			
Life span	>20,000 Hours			
Mounting	1/2″ Knuckle, Trunnion, U-bracket			
Color	Bronze			
Input voltage	AC 120V			
Power factor	>0.9			
Operating temperature	-22°F ~ 113°F (-30°C to 45°C)			
Listings	UL, cUL			
IP rating	IP 65			
Warranty	24 Months			

DIMENSIONS

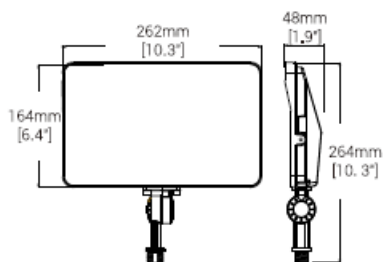**1/2″ Knuckle Mounting**
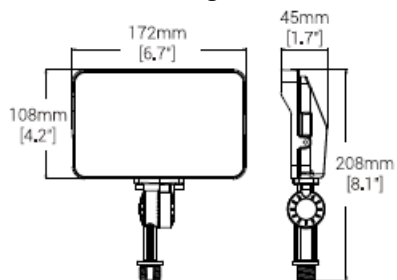
G.W: 1.1lbs
CES-LS-VN-30W

G.W: 1.6lbs
CES-LS-VN-50W

G.W: 2.6lbs
CES-LS-VN-70W

G.W: 6.2lbs
CES-LS-VN-100W

Trunnion Mounting

G.W: 6.2lbs
CES-LS-VN-100W

G.W: 7.5lbs
CES-LS-VN-150W

G.W: 11lbs
CES-LS-VN-200W/240W

U-Bracket Mounting

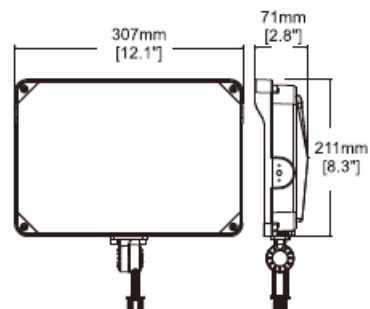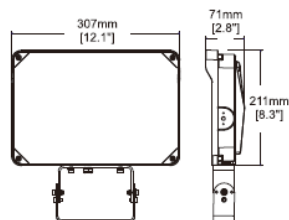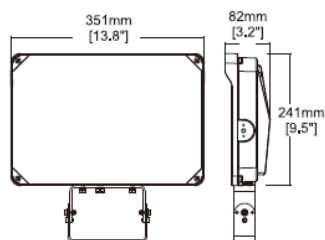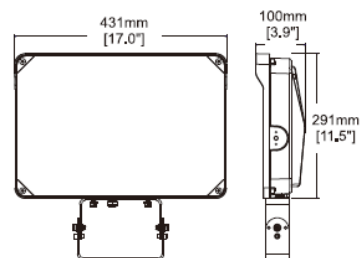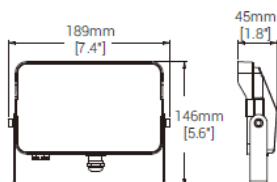G.W: 1.1lbs
CES-LS-VN-30W
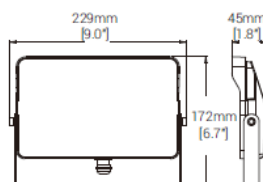
G.W: 1.6lbs
CES-LS-VN-50W
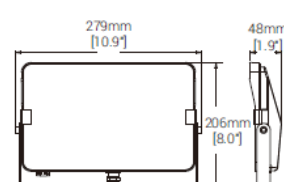
G.W: 2.6lbs
CES-LS-VN-70W
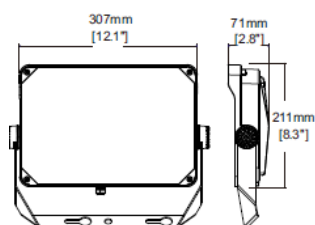
G.W: 6.2lbs
CES-LS-VN-100W
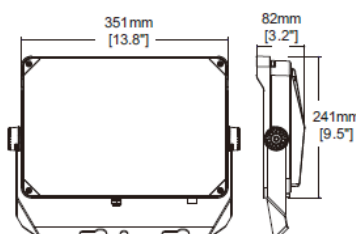
G.W: 7.5lbs
CES-LS-VN-150W
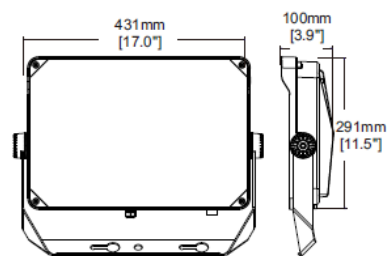
G.W: 11lbs
CES-LS-VN-200W/240W

INSTALLATION

1/2″ Knuckle Mounting
(Only available on 30w, 50w, 70w, and 100w light)
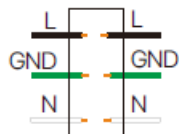
Black Wire – Line Voltage
Green Wire – Ground
White Wire – Neutral

LIGHT MUST BE GROUNDED

1. Open junction box and run wiring into the box;

2. Thread light body onto junction box using the 1/2-14 threads one knuckle;

3. Connect wiring;

4. Adjust the light head to the desired angle and tighten the hexagon screw;

Hexagon screw

1/2"-14NPT

Junction Box

△ 180°
Light head is adjustable
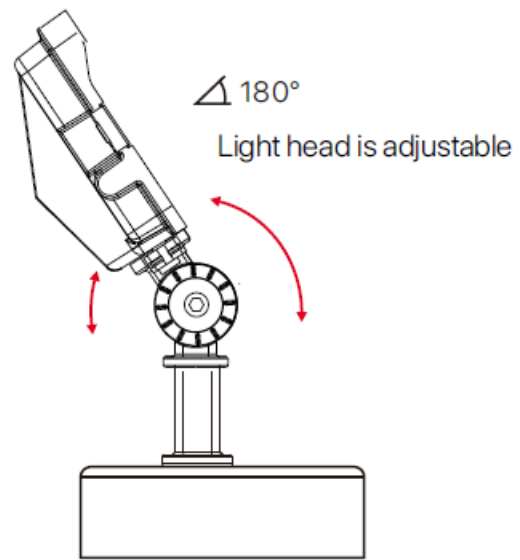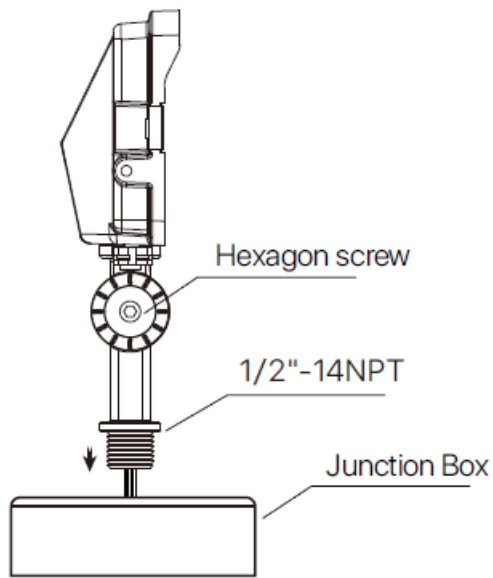
With Wall Mounting Plate
(Only available on 30w, 50w,70w, and 100w light)

1. Attach the mounting base to an appropriate location on the wall;
2. Secure light body onto the mounting cover and connect wiring;
3. Slide the mounting cover into the mounting base and secure it with the matching screws;

0.7"
0.8"
0.9"
5.1"
6.5"

L
G
N

△ 180°
Light head is adjustable
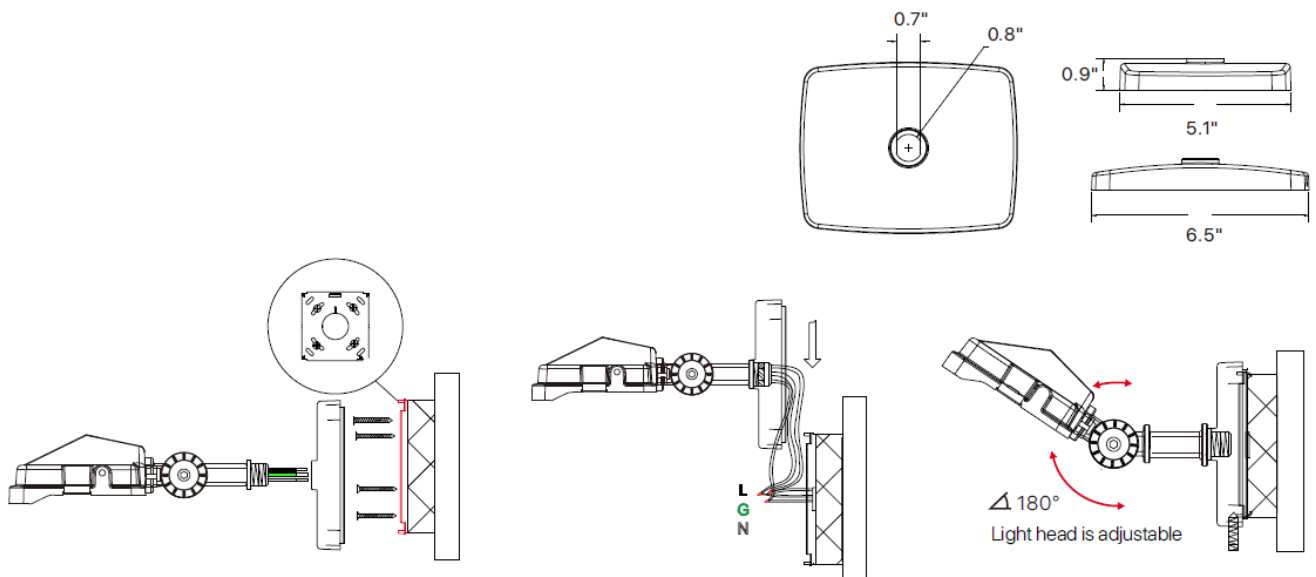
Trunnion Mounting

1. Loosen light head adjustment screws with hex key;
2. Securely attach light to the wall and connect wiring;
3. Connect wiring;
4. Rotate light head to the desired angle and tighten adjustment screws;
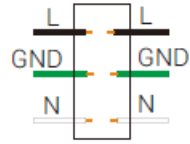
Black Wire - Line Voltage
Green Wire - Ground
White Wire - Neutral

LIGHT MUST BE GROUNDED

Wall

Hex Head Screw

180°
Light head is adjustable
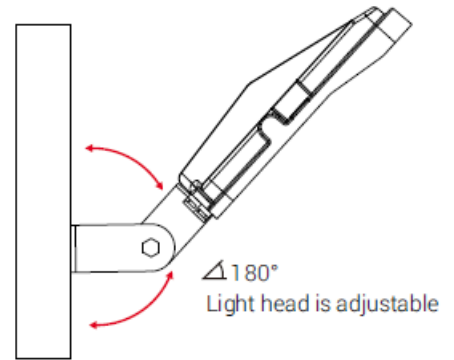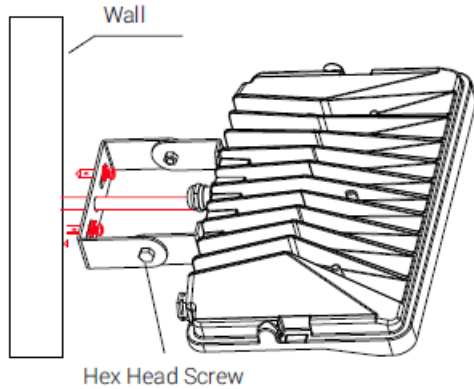
U-bracket Mounting

1. Loosen light head adjustment screws with hex key;
2. Securely attach light to wall and connect wiring;
3. Adjust light head to desired angle and tighten hexagon screw;
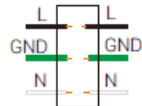
Black Wire - Line Voltage
Green Wire - Ground
White Wire - Neutral

LIGHT MUST BE GROUNDED

Roof/Wall

Hex-key

180°
Light head is adjustable
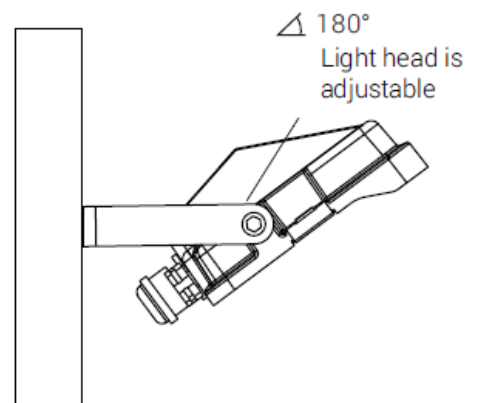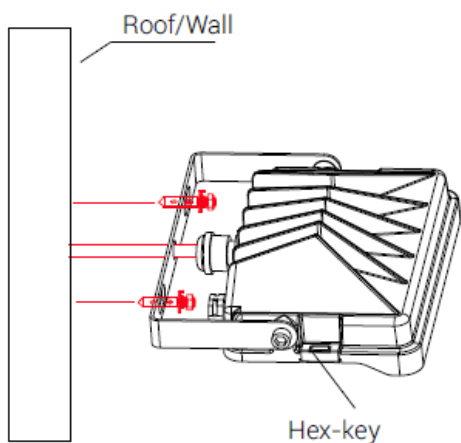
Industrial LED Flood Lighting (MARS Series)

Features

UL&CUL No E483348 Suitable for Wet Locations.

ATTENTION

BEFORE YOU INSTALL
Read these instructions completely and carefully.

WARNING

RISK OF ELECTRIC SHOCK

- Turn the power off before inspection, installation or removal.
- Properly ground electrical enclosure.
- Follow all NEC and local codes.
- Use only UL or IEC-approved wire for input/output connections.

Prepare Electrical Wiring

Electrical Requirements
The LED driver must be supplied with 120 VAC, 60 Hz per product label and connected to an individual properly grounded branch circuit, protected by a 15 or 20 ampere circuit breaker.

Grounding Instructions
The grounding and bonding of the overall system shall be done in accordance with National Electric Code (NEC) Article 600 and local codes.

Save These Instructions
Use only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.

Note:
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

- Please connect the input wire in the correct way, white is ACN, black is ACL, and green is the GROUND connection.
- Please also make sure the wire connection is fixed perfectly before using.
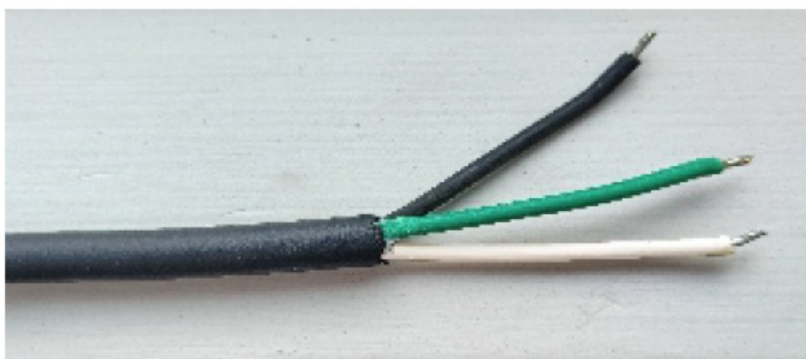
FOOTCANDLE LIGHT GUIDE

Footcandles are the most common unit of measure used by lighting professionals to calculate light levels in businesses and outdoor spaces. A footcandle is defined the illuminance on a one square foot surface from a uniform source of light. The illuminating Engineering Society (IES) recommends the following footcandle levels to ensure adequate illumination and safety for occupants. Below is a guideline for common areas to assist in achieving appropriate light levels with the greatest energy efficiency.

Building Area & Task	Average Maintained Footcandles (Horizontal) (FC)	Range of Maintained Footcandles (Horizontal) (FC)	Average Maintained Footcandles (Vertical) (FC)	Range of Maintained Footcandles (Vertical) (FC)	Comments

WAREHOUSING & STORAGE

Bulky Items-Large Labels	10		5		
Small Items-Small Labels	30		15		
Cold Storage	30-40	10-30	10	5-15	
Open Warehouse	30-40	10-30			
Warehouse w/Aisles	30-40	10-30	10	5-15	

COMMERCIAL OFFICE

OpenOffice	40	30-50 Above Finished Floor (AFF)			@30″
Private Office	40	30-50 AFF			@30″
Conference Room	30			**Matte surface reflectance for the table 40% recommended**	
Restroom	1B	75-30			
Lunch & Break Room	15	5-20			

EDUCATIONAL (SCHOOLS)

Classroom Gymnasium	40	30-50			@30″ AFF
Class I (Pro or Div. 1 College)	125		30		
Class II (Div. 2 or 3 College)	80		20		
Class III (High School)	50		150		
Class IV (Elementary)	30		100		
Auditorium	75	3-10	5	2.5-10	
Corridor	25	10-40			

This guide is a collaborative effort of Energy Trust of Oregon and the Lighting Design Lab, Seattle, Washington.

INDUSTRIAL/MANUFACTURING

Assembly				
Simple (Large Item)	30		15	15-60
Difficult (fine)	100	10-30	10	50-200
Component Manufacturing				
Large	30	10-30	30	15-60
Medium	70-80	25-100	50	25-100

EXTERIOR

Parking (Covered)	5				1FC min,10:1 Max to **Min Uniformity**
Parking (Open) (Medium Activity)					
Lighting Zone 3 (Urban)	1.5	75-3	0.8	0.4-1.6	
Lighting Zone 2 (suburban)		0.5-2	0.6	0.3-1.2	
Gas Station Canopy	12.5	10-15			
Safety (Building Exterior)		0.5-2			**If security is an issue** **raise average level to 3**

RETAIL

General Retail (Ambient)		50			
Department Store	40	20-80	15	7.5-30	
Perimeter			75	35-150	
Accent Lighting (Displays)					3-10 times greater than ambient light levels

AUTOMOTIVE

Showroom	70-80	25-100	10	7.5-30	
Service Area	50	25-10	30	15-30	
Sales Lot (Exterior)					
Lighting Zone 3 (Urban)	20	10-40	20	10-40	
Lighting Zone 2 (Suburban)	15	7.5-30	15	7.5-30	

GROCERY

Circulation	20	10-40	7.5	3.5-15	
General Retail	70-80	25-100	20	10-40	
Perimeter			50	25-100	

NOTES:

- This guide is based on information gathered from the IES 'The Lighting Handbook' 10th Edition. It is highly recommended that all Ughting professionals refer to the ful IES guide when specifying lighting projects .
- At.least half of users are in the 25 – 65 age range.
- The horizontal-horizontal plane that averages maintained foot candles is measured.
- Vertical-vertical plane the average maintained foot candles are measured.
- It is the responsibility of the to determine and provide appropriate lighting levels for each space.

LED High Bay Light

Hero Black Series   Hero White Series   Radar Series

Saturn Series   Saturn Series   Will Series

LED Flood Light

Mars Series   Eyes Series

LED Grow Light

Area Light & Canopy Garage Light

Top Series

Vega Series

LED Vapor Tight Light

LED Wall Pack Light

Wall. E Series

Moon Series

Temporary Work Light

Hive Series

Documents / Resources

	HYPERLITE Lumens MARS SERIES LED FLOOD LIGHT [pdf] Installation Guide Lumens, MARS LED FLOOD LIGHT

References

- **hyperlite.com**
- **Hyperlite | Best Shop Lights | FREE Layout & Shipping**