ZLM Series Installation Manual
SINGLE UNIT FIXED MOUNT INSTALLATION

UL CERTIFIED
SAFETY US·CA
MARINE US
E477827

APPLICATION

The ZLM luminaire is an industrial-grade product suitable for general locations. Installation areas include indoor, outdoor, and wet locations. This product family is commonly exposed to moisture, dirt, corrosion, vibration, and rough usage. ZLM luminaires are suitable for use in the following areas defined by the National Electrical Code (NEC) and the Canadian Electrical Code (CEC).

Certified to:	UL1598 CSA 22.2 NO. 250.0, CSA C22.2 NO 250.13
Housing:	High pressure die-cast aluminum end caps, extruded aluminum body & polycarbonate lens.
Rated Voltage:	120-277 VAC , 50/60 Hz
Rated Current:	ZLM: 2.5A | ZLM2: 4.9A
Connections:	Standard: Black: Line | White: Neutral/Line 2 | Green: Ground
	Dimming: Black: Line | White: Neutral/Line 2 | Green: Ground Red: Dimming (+) | Orange: Dimming (-)
	*For connections use wire rated to a minimum of 90° C
Temperature Range:	-40° C to +45° C
Ingress Protection:	IP66 | Suitable for wet locations.

⚠️ **WARNING**

To avoid the risk of fire, explosion, or electric shock, this product should be installed, inspected, and maintained by a qualified electrician only, in accordance with all applicable electrical codes.

⚠️ **WARNING**

To avoid electric shock, disconnect the luminaire from the supply circuit before opening for installation and servicing. Keep tightly closed when in operation.

SINGLE UNIT FIXED MOUNT INSTALLATION
Refer to alternate instructions if using Yoke Mount

INSTALLATION STEPS

STEP 1:
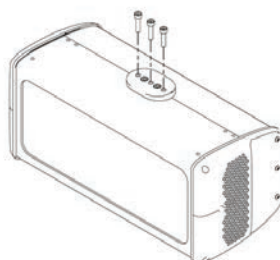Inspect shipping package and contents to ensure no damage has occurred during shipping.

STEP 2:
Mount unit to bracket or mounting surface using a minimum of 2 M6 fasteners. Torque mounting fasteners to 80 in-lb.
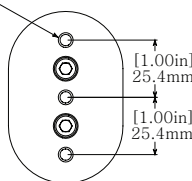
To provide adequate engagement, fasteners must have exposed threads at least 8mm and a maximum of 10mm after insertion into user-supplied mounting hardware.

Using medium strength thread-locker (Loctite 242 or equivalent) for all mounting hardware is recommended.
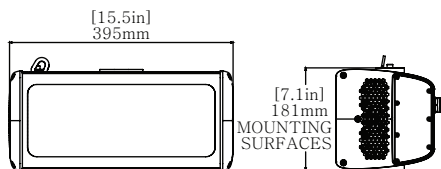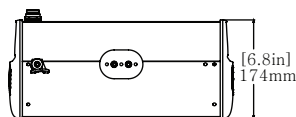
MOUNTING POINTS

USE THREE (3) M6
FASTENERS EACH SIDE

[1.00in]
25.4mm

[1.00in]
25.4mm

MOUNTING DIMENSIONS

[6.8in]
174mm

[15.5in]
395mm

[7.1in]
181mm
MOUNTING
SURFACES

INSTALLATION STEPS CONT.

STEP 3 (Optional):
Attach the secondary safety chain or cable to the attachment point using a cable, quick link, or other locking connector system with a suitable load rating. It is recommended that at least one secondary safety attachment be made for each unit.

STEP 4:
Make wiring connections. Refer to NEC/CEC codes and follow all applicable local standards.

Standard (Turck mini fast quick connect cable):
Connect the Green wire to the Ground, the White wire to Neutral, and the Black wire to the Line. This is a single-phase input, 120VAC to 277VAC only.
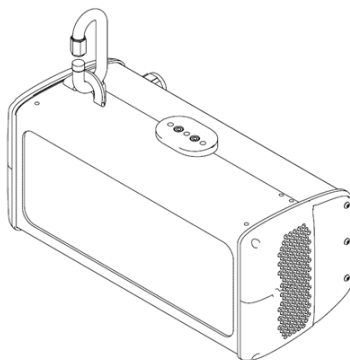
Black: Line | White: Neutral/Line 2 | Green: Ground

Dimming (Flying lead cable):
Connect the Green wire to the Ground, the White wire to Neutral, and the Black wire to the Line. This is a single-phase input, 120VAC to 277VAC only. Connect Red to the positive 0-10V dimming control line and Orange to the negative 0-10V dimming control line.

Black: Line | White: Neutral/Line 2 | Green: Ground
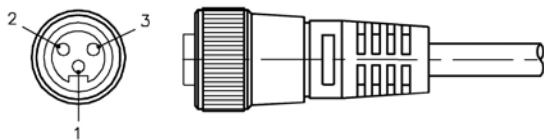Red: Dimming (+) | Orange: Dimming

SECONDARY SAFETY

Turck Mini-fast Quick-Connector:

Connect Turck 7/8" mini fast receptacles to the appropriate power cable or harness for standard units without dimming control. Turck connector harnesses may be purchased directly from Nemalux.

For ZLM (single unit) use:
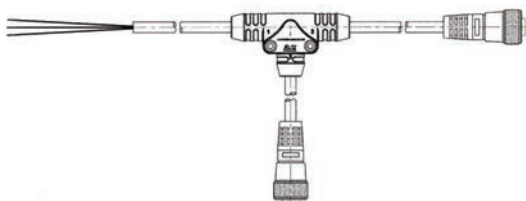Turck RKM 36-3M connector cable

1= Green
2 = Black
3 = White

RKM 36-3M Cable

For ZLM2 (double unit) use:
Turck T-36-1717-3/RKM 36-0.5/RKM 36-0.5 dual unit connector harness or
(2) Turck RKM 36-3M connector cables

T-36-1717-3/RKM 36 - 0.5/RKM 36 - 0.5 ZLM2 Harness

YOKE MOUNT INSTALLATION

INSTALLATION STEPS

STEP 1.
Inspect shipping package and contents to ensure no damage has occurred during shipping.

STEP 2.
Install the central M6 mounting fastener loosely on each side. If using an adjustable or multi-position bracket, aim the fixture in the desired direction. Install the remaining (2) fasteners per side and torque all mounting fasteners to 80 in-lb.

To provide adequate engagement, fasteners must have exposed threads at least 8mm and a maximum of 10mm after insertion into user-supplied mounting hardware.

Using medium strength thread-locker (Loctite 242 or equivalent) for all mounting hardware is recommended.
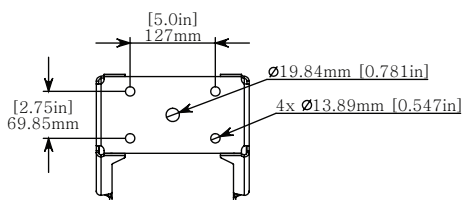
STEP 3 (Optional).
Attach the secondary safety chain or cable to the attachment point using a cable, quick link, or other locking connector system with a suitable load rating. At least one secondary safety attachment is recommended for ZLM and ZLM2 models.
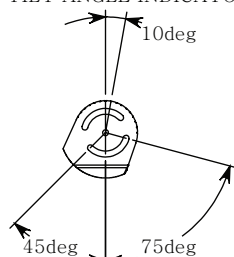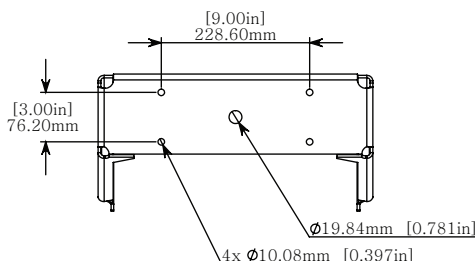
MOUNTING POINTS

ZLM (Single unit)

[5.0in]
127mm

Ø19.84mm [0.781in]

[2.75in]
69.85mm

4x Ø13.89mm [0.547in]

TILT ANGLE INDICATORS

10deg

45deg   75deg

MAX TILT ANGLE

ZLM2 (Dual unit)

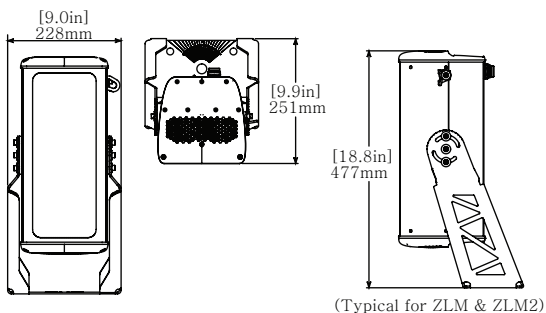[9.00in]
228.60mm

[3.00in]
76.20mm

Ø19.84mm [0.781in]

4x Ø10.08mm [0.397in]

YOKE MOUNT INSTALLATION

STEP 4.
Continue installation with STEP 4 on PAGE 3.

MOUNTED DIMENSIONS

Single Vertical Yoke:

[9.0in]
228mm

[9.9in]
251mm

[18.8in]
477mm

(Typical for ZLM & ZLM2)

Double Vertical Yoke:

[16.7in]
423mm

[10.6in]
269mm