



LED LIGHTING SOLUTIONS

Revolutionary Concepts For Shipboard Lighting

LLS360 HAZARDOUS LOCATION LED FIXTURE INSTALLATION MANUAL

Luminaire for use in Hazardous Locations
Class I, Division 2, Groups A, B, C, & D
Suitable for Marine Outside Type (Saltwater)

IMPORTANT

READ CAREFULLY BEFORE INSTALLING LUMINAIRE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.

Luminaires must be wired in accordance with the National Electrical Code and all applicable local codes using the acceptable wiring methods for the specific hazard locations. Proper grounding is required for safety. To reduce risk of fire or explosion, do not install where the marked operating temperature code (T-code) exceeds the ignition temperature of the hazardous atmosphere(s).

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

WARNING: Make certain power is OFF before installing or maintaining luminaire.

INSTALLATION:

1. See the mounting types listed below to verify hole spacing and ensure that the mating location matches the mounting means. Use appropriate size bolts for mounting.
2. The LLS360 fixture comes with three 3/4" NPTF conduit entries. Two of those entries are supplied with conduit plugs. Choose the entry point that works best with the application and be sure to full tighten the conduit plugs on the other entries. Supply connection must engage minimum 3 1/2 threads.
3. When installing the LLS360 be mindful of swing direction of the cover to ensure it can pivot properly for access to the wiring compartment.

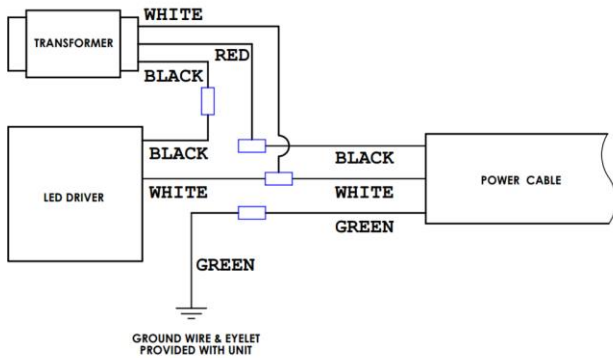
WIRING:

1. Before installing, make sure that the circuit is deactivated.
2. This unit is furnished completely assembled. Before installing, check the luminaire label to ensure correct voltage and frequency.
3. The LLS 360 is opened by unscrewing the two screws that are not part of the hinge. The hinge screws do not need to be removed unless proper swinging motion for the cover is not available. The screws on the cover are captive type so they remain with the fixture. They should not be completely removed.
4. With the cover open there are four screws around the perimeter of the LED Board that only need to be loosened. With the screws loose the board can be shifted to the side and the LED board will swing freely out of the way exposing the driver and electrical compartment.
5. The LLS360 fixture will always have one exposed colored (Hot) wire, one white (Neutral), and a green (ground) wire which should be connected to your circuit using approve wiring methods. Wire per NEC Article 501, NFPA 70.
6. When the electrical connections are made reinstall the LED and tighten the mounting screws. Be sure to tighten the screw properly ensuring no wires or other materials are pinched between the LED board and the main body of the fixture. Failure to ensure proper LED board tightness will affect heat sinking and overall performance of the fixture.
7. For through wiring applications, Maximum of 9 wires, 12 AWG maybe installed.

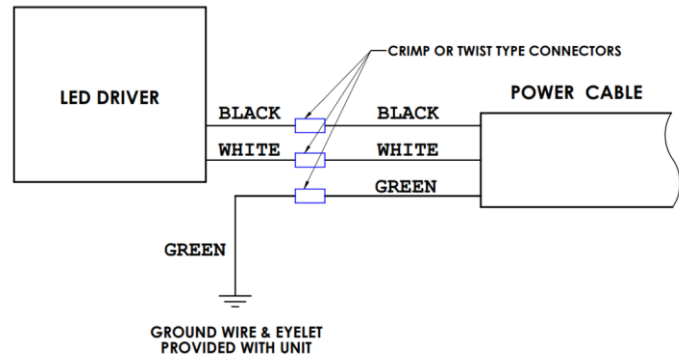


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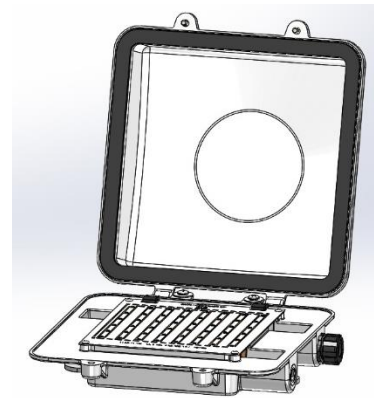
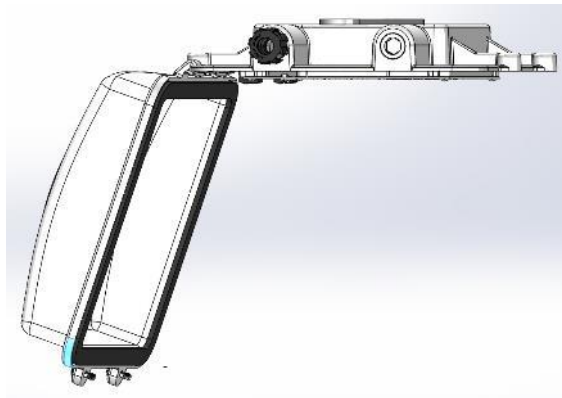
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High Voltage Wiring



Low Voltage Wiring



MAINTENANCE DATA:

1. Although no routine maintenance is required to keep this luminaire functional, it should be checked periodically to ensure it is working properly, and to look for any external damage.
2. For optimum performance, keep the light transmission portion of the luminaire clean.
3. To clean, wipe the lens with a clean, soft, damp cloth. A mild soap may be used as needed. Do not use strong abrasive cleaners.
4. Visually check for undue heating evidenced by discoloration of wires and other components, damaged parts or leakage of water or corrosion in the interior.
5. Check that all mechanical components are properly assembled and secure.
6. Make sure all electrical connections are safe and secure.
7. Clean and inspect all gaskets before putting the luminaire back in service.

TECHNICAL DATA:

General Data

Storage Temperature: 0°C to 85°C
Copper Free Aluminum Casting
LV - 7lbs HV – 8lbs

Diffuse Acrylic Lens
Vessel, Trunnion, or Pendant Mounting
4000K or 6500K (5000K Optional) CCT



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LLS360-25-__ - LV - __ Specific

3500 Lumen Class
100-277Vac 50/60 Hz
25W rated power

LLS360-35-__ - LV - __ Specific

5075 Lumen Class
100-277Vac 50/60 Hz
35W rated power

LLS360-47-__ - LV - __ Specific

6650 Lumen Class
100-277Vac 50/60 Hz
47W rated power

LLS360-38-__ - HV - __ Specific

3500 Lumen Class
347-480Vac 50/60 Hz
38W rated power

LLS360-47-__ - HV - __ Specific

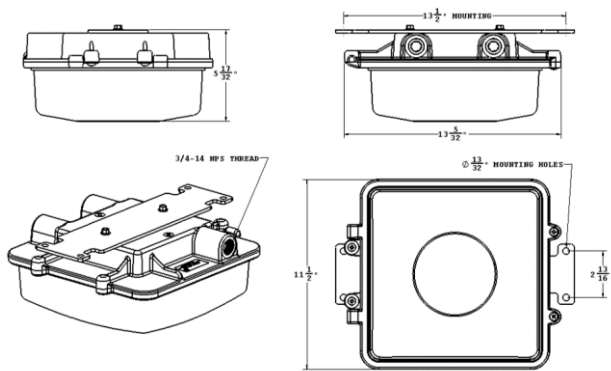
5075 Lumen Class
347-480Vac 50/60 Hz
47W rated power

LLS360-55-__ - HV - __ Specific

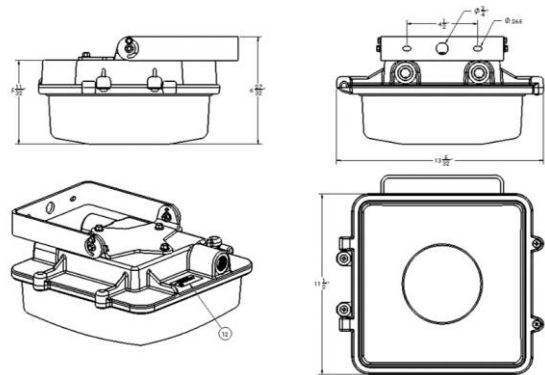
6650 Lumen Class
347-480Vac 50/60 Hz
55W rated power

MOUNTING MEANS (All mounting options may be used for ceiling or wall applications):

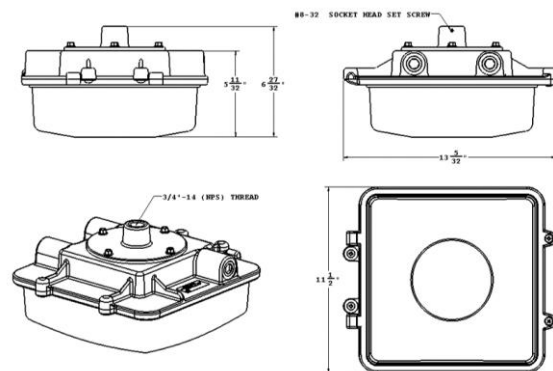
Vessel Mount



Trunnion Mount



Pendant Mount






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UL Luminaire Labels

CAUTION: To reduce the risk of ignition of Hazardous Atmospheres, disconnect the luminaire from the supply circuit before opening. Keep tightly closed when in operation.

For supply connection, use wires rated at least 105C. CL.I, Div. 2, Gr. A, B, C, & D. Suitable for Wet Locations and Marine use. Maximum ambient temperature 40C.

Model: LLS360- xx-yy-zz-aa	Electric Luminaire for	
120-240Vac 0. bb mA	Hazardous Locations.	
277Vac 0. cc mA		
50/60Hz, dd W	Date: xxxx	E497473

For Technical Questions, Please contact Info@1LLS.com