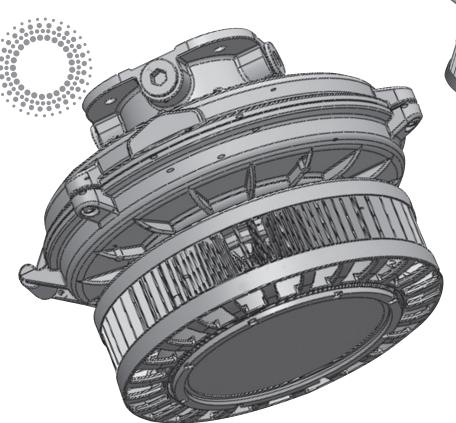
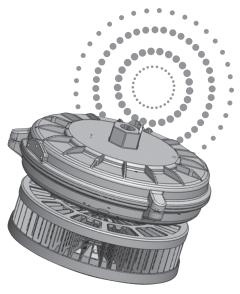


# HLRMax S E R I E S

Hazardous Location Fixture





# Installation Manual HLRMax Series

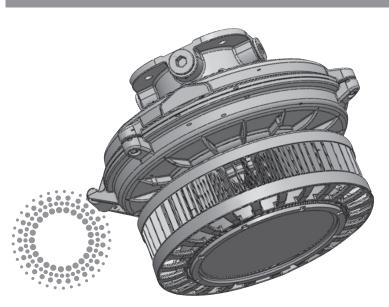
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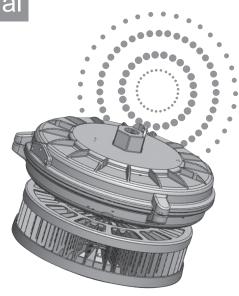
# LED LUMINAIRE

# HLRMax Hazardous series Location Fixture









# INTRODUCTION

HLRMax Hazardous Location Fixture are suitable for use in the following hazardous(classified) areas as defined by the National Electrical Code(NEC)

#### **Hazardous Locations**

Class  ${\rm I}$  , Division 2, Groups A, B, C, D Class  ${\rm II}$  , Division 2, Groups F,G

# **UL Standards** UL844

UL1598, UL1598A

# **Environmental Ratings**Suitable for Wet Locations at

40°C maximum ambient only NEMA 4X

#### **Input Voltage**

120-277Vac 50/60Hz : HLRxxxUW50xCG 347-480Vac 50/60Hz : HLRxxxHW50xCG

#### **Temperature Condition** (Only light aiming down position for Class II, Division2)

MODEL		ClassI, D Groups A,	Class II , Division 2 Groups F, G			
	- 25 °C to 40 °C Ambient	- 25 °C to 50 °C Ambient	- 40 °C to 40 °C Ambient	- 40 °C to 50 °C Ambient	40 °C Ambient	50 °C Ambient
HLR80UW50xxx	T5	T5	-	-	T3C	T3B
HLR110UW50xxx	T4A	T4	-	-	T3C	T3B
HLR80HW50xxx	-	-	T5	T5	T3C	T3B
HLR110HW50xxx	-	-	T4A	T4	T3C	T3B
HLR140xW50xxx	-	-	T4	T4	T3C	T3B
HLR170xW50xxx	-	-	T3C	T3C	T3C	T3B

# INSTALLATION

#### ∕!\ 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.

#### To avoid electric shock

- Be certain electrical power OFF before and during installation and maintenance.
- Luminaire must be connected to a wiring system required for the specific hazardous locations in accordance with the National Electrical Code and Canadian Electrical Code.

#### To avoid explosion

- Make sure the supply voltage is the same as the rated luminaire voltage.
- Do not install where the marked operating temperatures exceed the ignition temperature of the hazardous atmosphere
- Do not operate in ambient temperatures above those indicated on the luminaire nameplate.
- Keep len's tightly closed when in operation.
- All gasket seals must be clean.
- Before opening, electrical power to the luminaire must be turned off. Keep tightly closed when in operation.
- To reduce the risk of ignition due to electrostatic discharge, avoid contact with the luminaire while explosive atmosphere is present. Clean only with a damp cloth.

#### To avoid buring hands

- Make sure globe or refractor and lamp are cool when performing maintenance.

### Ceiling Mounting Module Installation / Wall Mounting Module Installation

- Secure the ceiling mount to the structure using four 5/16" fasteners(not supplied)
- Attach the mounting module to the conduit.
- Thread conduit into the mounting module hubs until wrench-tight.
- Install pipe plugs (supplied) into unused conduit openings and torque firmly.
- Attach the cover module A to the mounting module (18lb-in. 6point Screw M6) Figure 2
- Pull field wiring into cover module.
- Close all unused conduit entries with conduit plugs provided. and secure wrench-tight with at least four full threads engaged ( 42-52 ft-lb. for 3/4" plugs)
- Hang LED luminaire on the cover module hinge hook.
- Connect supply wires to luminaire wire leads per the attached wiring diagrams using methods that comply with all applicable codes. See Figure 7. Tighten all electrical connections.
- Connect safety ground wire at cover module using M4 screw.
- Close driver housing onto cover module, making sure that all wires ard safely inside driver housing. Tighten captive closing screw to 30 in-lbs. (3.4 N-m).
  - Ensure two bosses on driver housing are in contact with cover module.
- Turn power on.

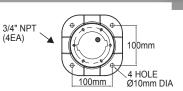


Figure 1 Ceiling, Wall Mounting Module Installation



Figure 2 **Cover Module Installation** 

## Stanchion mounting module installation

- Hub mounting thread is 1-1/2" NPT or 1-1/4" NPT.
- Attach the mounting module to the conduit.
- Thread stanchion mounting module on conduit and torque until wrench-tight.
- Tighten hub locking screw to conduit to 40 lb-in.(4.5 N-m).
- Attach the cover module A to the mounting module ( 18lb-in. 6point Screw M6 ) Figure 2
- Pull field wiring into cover module.
- Close all unused conduit entries with conduit plugs provided.

To prevent galling and to ensure water-tighteness,

and secure wrench-tight with at least four full threads engaged 42-52 ft-lb. for 3/4" plugs)

- Hang LED luminaire on the cover module hinge hook.

- Connect supply wires to luminaire wire leads per the attached wiring diagrams using methods that comply with all applicable codes. See Figure 7 Tighten all electrical connections.
- Connect safety ground wire at cover module using M4 screw.
- Close driver housing onto cover module, making sure that all wires and safely inside driver housing.

Tighten captive closing screw to 30 in-lbs. (3.4 N-m). Ensure two bosses on driver housing are in contact with cover module.

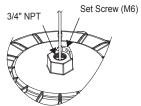
- Turn power on.

### Pendant mounting module installation

- LED luminaire is threaded for 3/4" NPT in order to be assembled to conduit
- Calculate and measure required conduit length.
- Feed the power cable (min. 6 in and max. 3 ft) through the conduit into the pendant pipe.
- Attach the cover module B to the conduit.
- Insert set screw in order to prevent rotation of the fixture on the conduit.
- Hang LED luminaire on the cover module hinge hook.
- Connect power cable conductors as follows;
  - Green wire connects to Safety Ground.
  - White wire connects to Neutral.
  - ·Black wiire connects to Live.
- Turn power on.

# Hub locking screw(M6) 1-1/2" NPT : HLRS92G, HLRS22G 1-1/4" NPT : HLRS94G, HLRS24G Figure 3

Stanchion Mounting Module Installation



## Swivel Mounting Module Installation / Clamp Mounting Module Installation

- Swivel Mounting Module: Using yoke as a template, mark and drill desired location on mounting surface.
   Secure yoke to surface using M10 bolts or lag screws (not provided).
   Clamp Mounting Module: U-BOLT fastening to post and swival mounting module

- To make final adjustment, loosen the pivot and angle bolts to position at the desired angle.
- Rotate fixture to the desired position
- Tighten the two angle bolt to 12 lbs-ft. (15.6 N-m)
   Tighten the two Pivot bolt to 45 lbs-ft. (61 N-m)
- Hang LED luminaire on the cover module hinge hook.
- Use below way of the connecting method.

To use Listed (QPOR/7), or Listed (QPOR) and CN, jacket type TC-ER, rated 600 V, 3C/18 AWG, rated 90°C.

Min. length 18 inches from outside of the conduit opening.

The cord end inside of the luminaire housing is terminated with Wiring Connector and the other end is for connection to branch circuit field wiring.

- Connect power cable conductors as follows;
  - Green wire connects to Safety Ground.
  - ·White wire connects to Neutral.
  - Black wiire connects to Live.
- Connect safety ground wire at cover module using M4 screw.
- Turn power on.



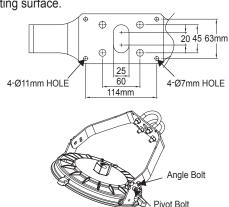


Figure 5 Swivel / Clamp Mounting Module Installation

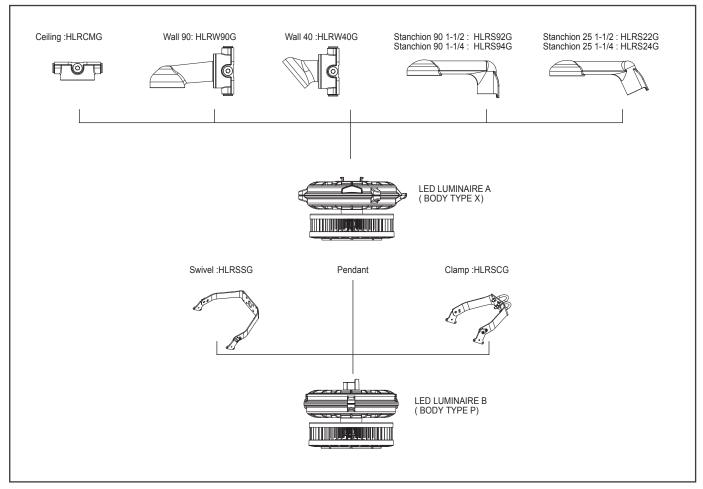


Figure 6
MOUNTING MODULE SERIES

#### **MOUNTING MODULE SERIES**

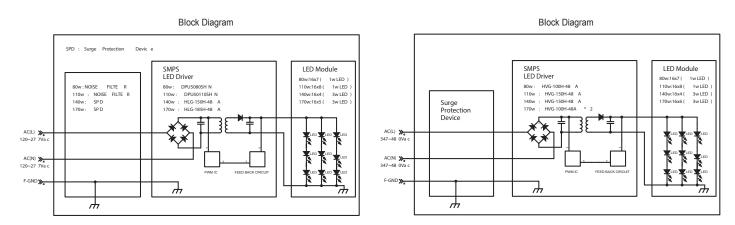


Figure 7

# **Maintenance**

- To avoid personal injury, disconnect power to the light and allow the unit to cool down before performing maintenance.
- Perform visual, electrical, and mechanical inspections on a regular basis. The environment and frequency of use should determine
  this. However, it is recommended that checks be made at least once a year. Frequency of use and environment should determine
  this. It is recommended to follow an Electrical Preventive Maintenance Program as described in NFPA 70B: Recommended
  Practice for Electrical Equipment.
- The lens should be cleaned periodically as needed to ensure continued photometric performance. Clean the lens with a damp, non-abrasive, lint-free cloth. If not sufficient, use mild soap or a liquid cleaner. Do not use an abrasive, strong alkaline or acid cleaner as damage may occure.
- Inspect the cooling fins on the luminaire to ensure that they are free of any obstructions or contamination (i.e. excessive dust build-up). Clean with a non-abrasive cloth if needed.
- Electically check to make sure that all connections are clean and tight.
- Mechanically check that all parts are properly assembled.

# ORDERING INFORMATION

HLR			w	50		С	G
FAMILY	WATTAGE	VOLTAGE	DISTRIBUTION	сст	MOUNTING OPTIONS	LENS	COLOR
HLR= Hazardous Location Round	80= 80W 110= 110W 140= 140W 170= 1700W	<b>U=</b> 120- 277V <b>H=</b> 347- 480V	<b>W=</b> 120°	<b>50=</b> 5000K	X= Ceiling, Wall Mount 90 DEG, Wall Mount 40 DEG, Stanchion 90 DEG, Stanchion 25 DEG Mount	C= Clear glass	<b>G=</b> Gray, std.
					P= Pendant, Swivel Surface, Swivel Clamp Mount		

# **SPECIFICATIONS**

**Norminal AC Supply Voltage** 

U: 120-277 VAC. 50-60Hz H: 347-480 VAC, 50-60Hz

**Power consumption** 80W, 110W, 140W, 170W

**Power Factor** 

> 0.9

**Operating Temperature range** 

HLR80UW50xxx	-13°F to + 122°F [ -25°C to + 50°C ]	
HLR110UW50xxx	-13 1 (0 + 122 1 [ -23 0 (0 + 30 0 ]	
HLR80HW50xxx		
HLR110HW50xxx	-40°F to + 122°F [ -40°C to + 50°C	
HLR140xW50xxx	-40 1 (0 + 122 1 [ -40 0 (0 + 30 0 ]	
HLR170xW50xxx		

<b>-</b> 0.9				
	Ceiling	Pendant	Wall 90°	Wall 40°
FIGURE				
SIZE(W x H)	14in × 9.9in (355mm x 252mm)	14in × 9in (355mm x 228mm)	15.8in × 13in (400mm x 330mm)	14in × 14.4in (355mm x 365mm)
Weight (80W 120-277Vac)	16.5 lb(7.5kg)	14.3 lb(6.5kg)	17.6 lb(8kg)	17.6 lb(8kg)
Weight (170W 347-480Vac)	19.8 lb(9kg)	17.6 lb(8kg)	20.9 lb(9.5kg)	20.9 lb(9.5kg)
	Stanchion90°	Stanchion25°	Swivel	Clamp
FIGURE				
SIZE(W x H)	15.8in × 9.6in (400mm x 244mm)	17.3in × 9.5in (440mm x 240mm)	14in × 15.8in (355mm x 400mm)	14in × 15.8in (355mm x 400mm)
Weight (80W 120-277Vac)	16.5 lb(7.5kg)	16.5 lb(7.5kg)	16.5 lb(7.5kg)	17.6 lb(8kg)
Weight (170W 347-480Vac)	19.8 lb(9kg)	19.8 lb(9kg)	19.8 lb(9kg)	20.9 lb(9.5kg)

All statements, technical information and recommendations contained herein ard based on information and tests we believe to be reliable. The accuracy or completeness thereof is not guarenteed. In accordance with MaxLite Terms and Conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.

NOTE: This equipment has been tested and found to comply with the limit for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation, which can be determined by turning the equipment off and on, the user is encourage to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
   Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help