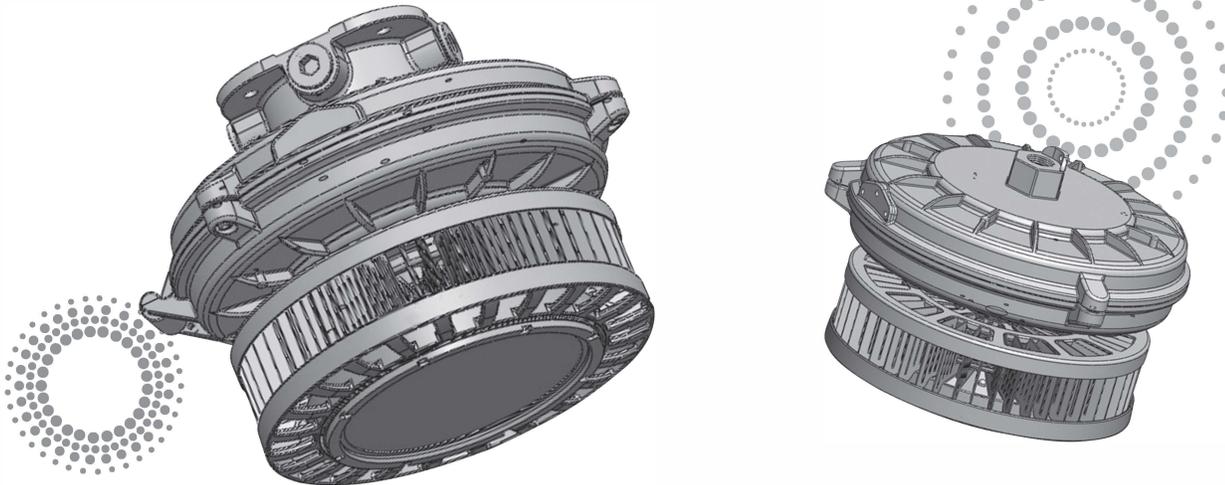


LED LUMINAIRE LEHL Series

Hazardous
Location Fixture



Installation And Maintenance Manual



INTRODUCTION

LEHL Series fixtures are suitable for use in the following hazardous(classified) areas as defined by the National Electrical Code(NEC)

Hazardous Locations

Class I, Division 2, Groups A, B, C, D
Class II, Division 2, Groups F, G

UL Standards

UL844
UL1598

Environmental Ratings

Suitable for Wet Locations at
40°C maximum ambient only
TYPE 4X (Option)

Input Voltage

120-277VAC, 50/60Hz : LEHLxxx-U Series
347-480VAC, 50/60Hz : LEHLxxx-H Series

Temperature Condition (Only light aiming down position for Class II, Division 2)

MODEL	Class I, Division 2 Groups A, B, C, D				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
LEHL80-U Series	T5	T5	-	-	T3C	T3B
LEHL110-U Series	T4A	T4	-	-	T3C	T3B
LEHL80-H Series	-	-	T5	T5	T3C	T3B
LEHL110-H Series	-	-	T4A	T4	T3C	T3B
LEHL140 Series	-	-	T4	T4	T3C	T3B
LEHL170 Series	-	-	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

- Ensure that electrical power is turned 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 lens tightly closed when in operation.
- 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 burning hands

- Ensure the fixture is cool when performing maintenance.

INSTALLATION

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. 6 point Screw M) - (See 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 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.

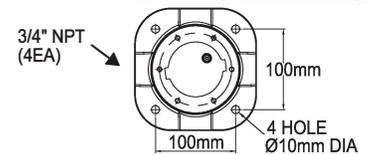


Figure 1
Ceiling, Wall Mounting Module Installation

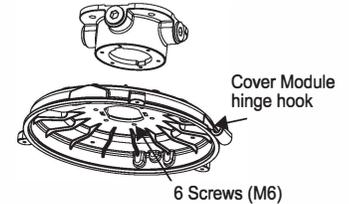


Figure 2
Cover Module Installation

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. (4.5N-m)
- Attach the cover module A to the mounting module.(18lb-in. 6 point Screw M6) - (See Figure 2)
- Pull field wiring into cover module.
- Close all unused conduit entries with conduit plugs provided. To prevent galling and to ensure water-tightness, 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 diagram using methods that comply with all applicable codes. (See Figure 7)
- 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.

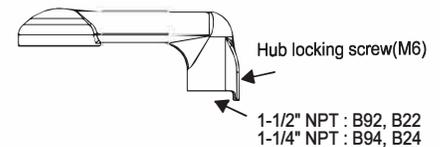


Figure 3
Stanchion Mounting Module Installation

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. 6in) 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 wire connects to Live.
- Turn power on.

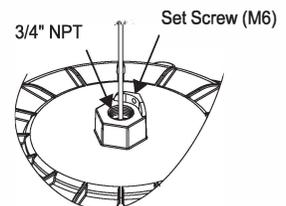


Figure 4
Pendant Mounting Module Installation

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 swivel mounting module. (U-Bolts Supplied by Others)
- 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. (15.6N-m)
- Tighten the two Pivot Bolt to 45 lbs-ft. (61N-m)
- Hang LED luminaire on the cover module hinge hook.
- Connecting Method:
 - To use Listed (QPOR/7), or Listed(QPOR) and CN, jacket type TC-ER, rated 600V, 3C/18AWG, rated 90°C.
 - Min. length 18" 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 wire connects to Live.
- Connect safety ground wire at cover module using M4 screw.
- Turn power on.

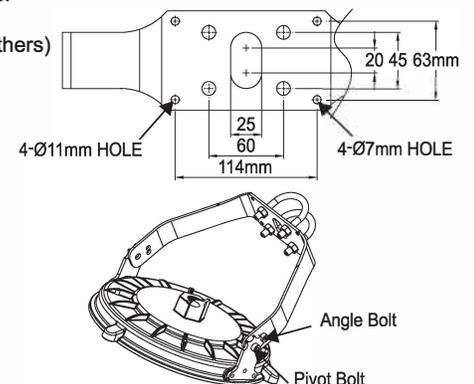


Figure 5
Swivel / Clamp Mounting Module Installation

INSTALLATION

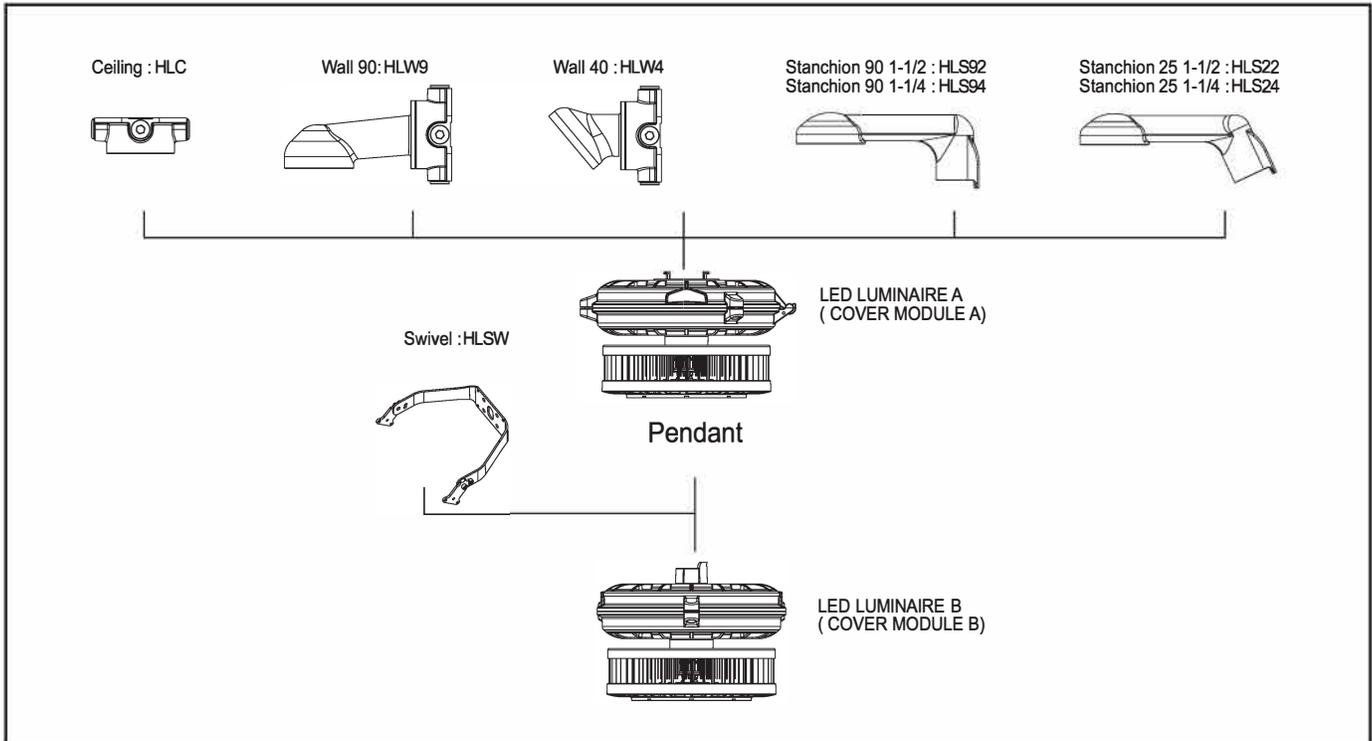


Figure 6
MOUNTING MODULE SERIES

MOUNTING MODULE SERIES

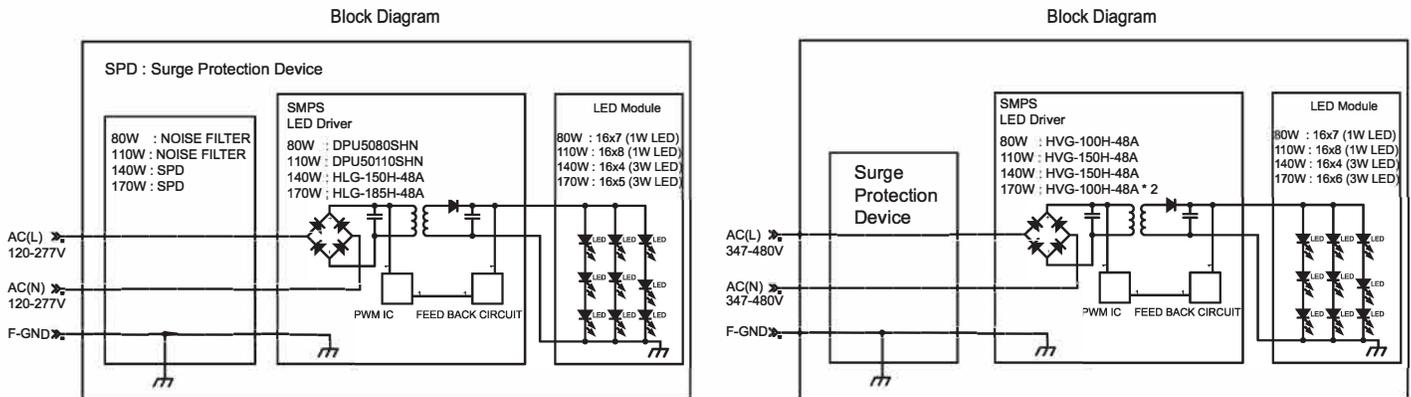


Figure 7

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 occur.
- 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.

ORDERING INFORMATION

SERIES	POWER	VOLTAGE	CCT	HOUSING
LEHL	80 110 140 170	U = 120-270VAC,50/60Hz H = 347-480VAC,50/60Hz	50 = 5000K	CWS = CEILING / WALL / STANCHION PSC = PENDANT / SWIVEL / CLAMP

SPECIFICATIONS

Normal AC Supply Voltage

U: 120-277VAC, 50/60Hz

H: 347-480VAC, 50/60Hz

Power consumption

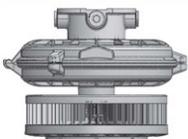
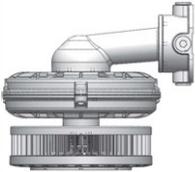
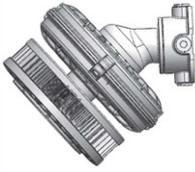
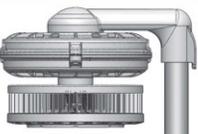
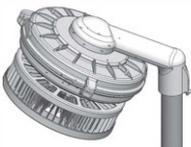
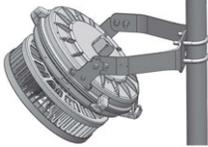
80W, 110W, 140W, 170W

Power Factor

> 0.9

Operating Temperature range

LEHL80-U Series	-25°C to +50°C [-13°F to + 122°F]
LEHL110-U Series	
LEHL80-H Series	-40°C to +50°C [-40°F to + 122°F]
LEHL110-H Series	
LEHL140 Series	
LEHL170 Series	

	Ceiling	Pendant	Wall 90°	Wall 40°
FIGURE				
SIZE(W x H)	14in x 9.9in (355mm x 252mm)	14in x 9in (355mm x 228mm)	15.8in x 13in (400mm x 330mm)	14in x 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)
	Stanchion 90°	Stanchion 25°	Swivel	Clamp
FIGURE				
SIZE(W x H)	15.8in x 9.6in (400mm x 244mm)	17.3in x 9.5in (440mm x 240mm)	14in x 15.8in (355mm x 400mm)	14in x 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 are based on information and tests we believe to be reliable. The accuracy or completeness thereof is not guaranteed.

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 encouraged 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