INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

LE158 OPEN FRAME, LED LIGHT FIXTURE FOR <u>ORDINARY</u> LOCATIONS ONLY

WARNING!

1. TO PREVENT THE RISK OF ELECTRICAL SHOCK DEACTIVATE/DISCONNECT THE POWER SUPPLY BEFORE INSTALLING OR RELAMPING FIXTURE.

2. THE DRIVER IN THIS FIXTURE IS DESIGNED TO OPERATE ON GROUNDED NEUTRAL SYSTEMS ONLY.

3. THIS FIXTURE SHOULD BE INSTALLED BY QUALIFIED TECHNICIANS IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY LOCAL REQUIREMENTS.

ORDINARY LOCATION APPLICATIONS ONLY

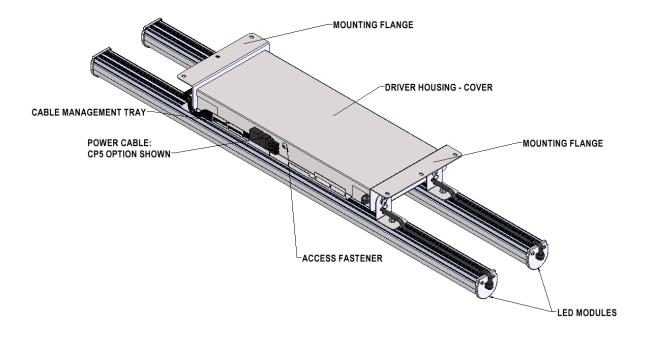
The fixture should be mounted to structure utilizing the mounting bracket or flange of the fixture in an ordinary location environment ONLY.

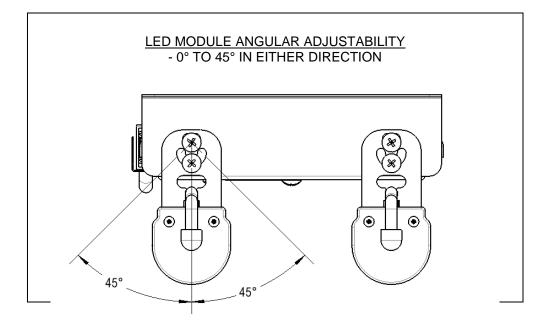
OPERATIONAL DATA

Operate this fixture at its rated voltage. See fixture data label for electrical information. Install in <u>Ordinary</u> <u>Locations Only</u>. Do not install in atmospheres that exceed maximum rated ambient temperature 40° C (104°F), see fixture data label.

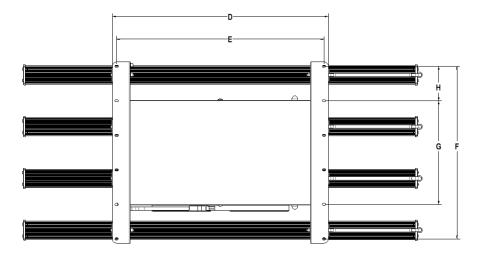
INSTALLATION

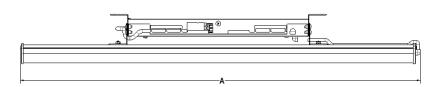
- 1. Mounting holes (Ø1/4") must be in place for LE158X
 - See table below for fixture specific mounting dimensions
- 2. Use 1/4-20 bolts (supplied by end user) to secure fixture to mounting structure
 - ONLY x4 bolts are required to secure fixture
- 3. If hanging fixture using chain or cable use outer most mounting holes
 - o Hanging structure (cable or chain) must be secure prior to hanging fixture
 - See table below for fixture specific dimensions

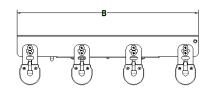




LE158S Basic Dimensions



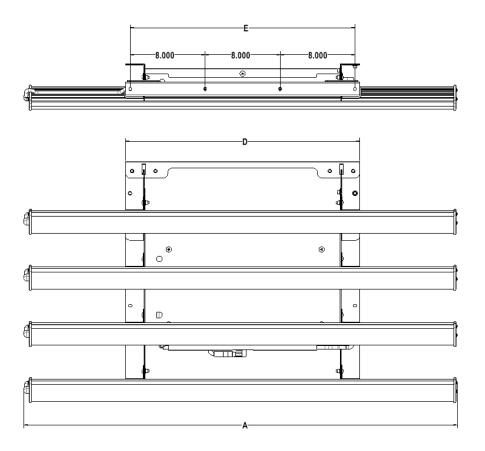


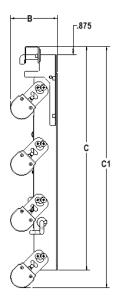


DIMENSIONS LE158S					
	ROWS	LENGTH (A)	WIDTH (B)	HEIGHT (C)	
2FT	1 ROW	22.4075	3.625		
	2 ROW		9.250		
	211	3 ROW	23.1875	17.000	
	4 ROW		21.000	F 7F0	
457	1 ROW	46.375	3.625	5.750	
	2 ROW		9.250		
4FT	3 ROW		17.000		
	4 ROW		21.000		
	1 ROW	69.563	6.250		
CLT.	2 ROW		12.750		
6FT	3 ROW		17.750		
	4 ROW		21.750	6.000	
8FT	1 ROW	91.000	6.250	0.000	
	2 ROW		12.750		
	3 ROW		17.750		
	4 ROW		21.750		

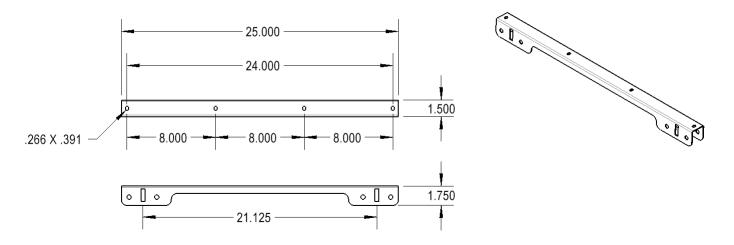
	MOUNTING DIMENSIONS - LE158S FIXTURE					
	FLANGE	MOUNTING HOLE	MOUNTING WIDTH	PRIMARY SURFACE	DIST BETWEEN	
	LENGTH (D)	LENGTH (E)	MAX- CHAIN (F)	MOUNT WIDTH (G)	MOUNTING HOLES(H)	
1 ROW		24	2	2	1	
2 ROW	25		8	8		
3 ROW			16	8	4	
4 ROW			20	12		

LE158H Basic Dimensions





LE158H MOUNTING BRIDGE DETAIL (18518)



	DIMENSIONS LE158H				
	ROWS	LENGTH (A)	DEPTH (B)	HEIGHT (C)	HEIGHT @ 45° (C1)
2FT	1 ROW	23.188	5.750	6.500	7.750
	2 ROW			12.250	13.750
	3 ROW			19.875	20.750
	4 ROW			23.875	24.750
	1 ROW	46.375		6.500	7.750
4FT	2 ROW			12.250	13.750
461	3 ROW			19.875	20.750
	4 ROW			23.875	24.750
6FT	1 ROW		6.000	9.000	10.875
	2 ROW	69.563		15.500	16.875
	3 ROW			20.500	21.875
	4 ROW			24.500	25.875
8FT	1 ROW			9.000	10.875
	2 ROW	91.000		15.500	16.875
	3 ROW			20.500	21.875
	4 ROW			24.500	25.875

MOUNTING DIMENSIONS - LE158H FIXTURE				
	MOUNTING BRIDGE LENGTH (D)	MOUTING HOLE LENGTH (E)	HOLE SPACING	
1 ROW				
2 ROW	25	24	0	
3 ROW	25	24	8	
4 ROW				

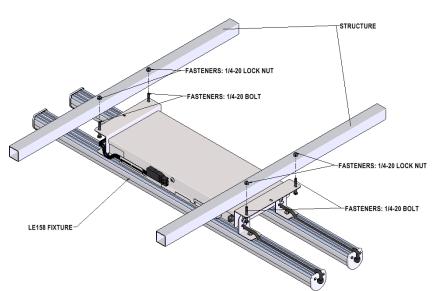
MOUNTING

Must be mounted to structure in NON hazardous locations only.

Top of fixture cover not to come in contact with ceiling.

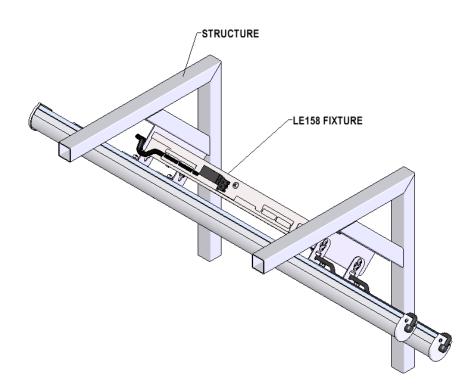
LE158S:

- Fixture is to be mounted or hung using mounting flange.



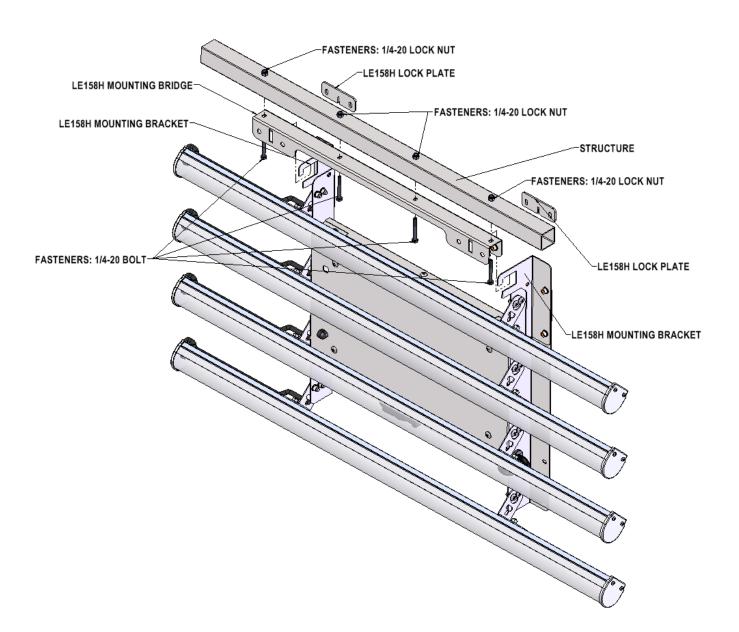
TYPICAL STRUCTURE MOUNT





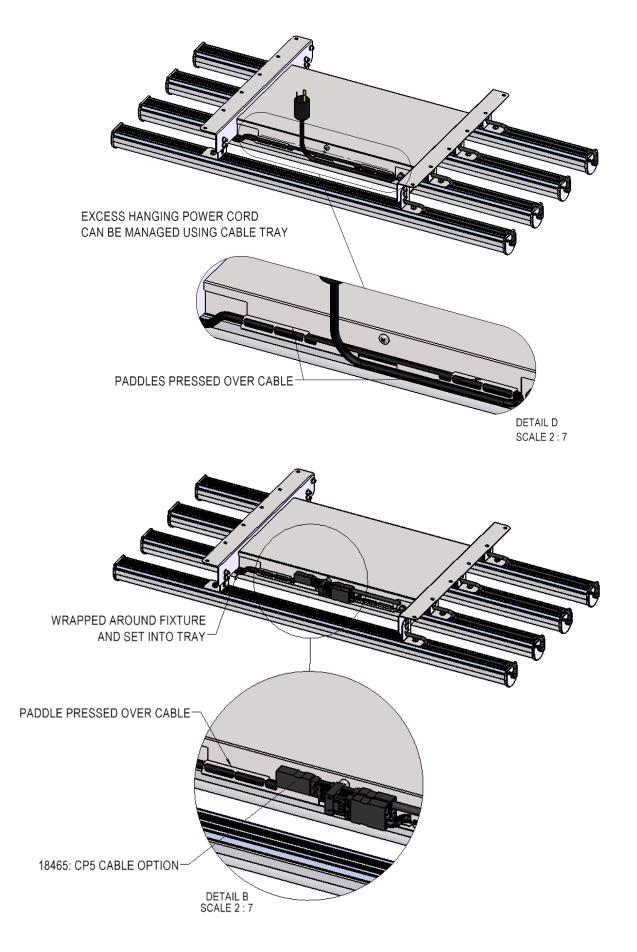
LE158H:

- Must be mounted behind glass for paintbooth operations
- LE158H Mounting Bridge to be installed and LE158H fixture is hung on mounting bridge.



Cable Management:

Paddles built into wire tray can be pressed over cable to keep it in place



MAINTENANCE DATA

1. Although no routine maintenance is required to keep this fixture functional, it should be checked periodically to ensure that it is working properly and to look for any external damage.

2. For optimum performance, keep light transmission parts of fixture clean.

3. In the event of an LED failure contact LDPI for replacement module.

CAUTION:

Overloading the switch circuits WILL cause failure. LDPI, Inc. recommends having a certified electrician/engineer review loads to ensure that overloading of switch does not occur.

TROUBLESHOOTING

- All troubleshooting tips assume fixture had been working correctly after it was installed, and something has gone wrong

- ANY MAINTENANCE MUST BE DONE WITH THE POWER OFF!

1. Single light bar is not working

- <u>Loose wire</u> - check connection of wire in LED light bar & driver box – See directions below for accessing LED module in light bar. If intact contact LDPI for assistance.

- <u>Driver issue</u> - if connections are intact, disconnect supply circuit and open top of fixture. Remove qty 2 fasteners from sides of driver housing cover and remove cover. Follow wires from faulty light bar, mark driver, disconnect wires from any two drivers and swap wires to the light bars, connect fixture to power, check to see if the faulty light bar works. If light bar works driver needs to be replaced.

- <u>LED module issue</u> - Repeat steps for 'Loose wire' and 'Driver issue', If LED module does not work then LED module will need to be replaced. Contact LDPI.

3. Sections or strings of LEDs are not functioning - LED module issue - contact LDPI for replacement.

4. Driver replacement: Disconnect supply circuit. Remove qty 2 fasteners from sides of driver housing cover and remove cover. Follow the wires to determine which driver is faulty. Phillips screwdriver or bit and 7/16" wrench/ nut driver required.

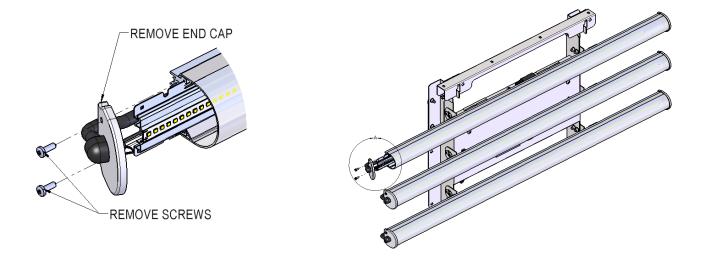
5. LED module replacement: LED module can be replaced on fixture while fixture is installed. Disconnect from supply circuit, follow instructions below. Take caution when doing any maintenance on the fixture.

LED Module Replacement

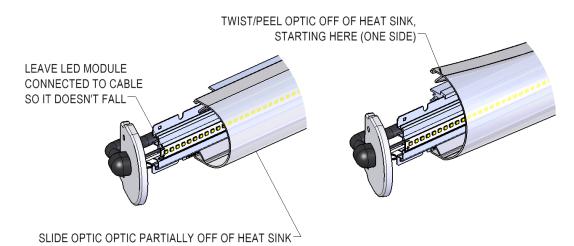
Fixture MUST be disconnected from power prior to performing any maintenance!

Example showing: LE158H fixture – process is the same for all LE158S & LE158H

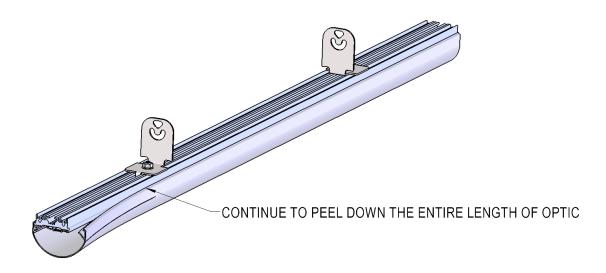
- 1. <u>Remove end cap with cable:</u>
 - a. Remove screws from end cap, set aside
 - b. Remove end cap from the light bar, leaving the cable in the end cap
 - i. LED module will move with the end cap
 - ii. Leave cable attached to LED module to keep from falling



- 2. <u>Remove the optic:</u>
 - a. Slide optic partially off heat sink
 - b. Grasp the white legs on one side of the optic, <u>carefully</u> pull and twist to disengage the clasp feature of the optic from the heat sink.
 - c. Once the optic is loose, it will easily peel off the heat sink.
 - i. Start on one end and continue down the length of light bar.



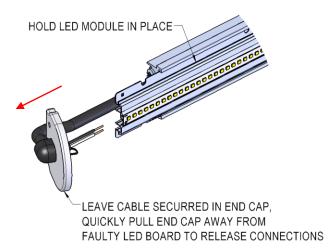
LDPI, Inc. 1-800-854-0021 Web: www.ldpi-inc.com E-mail: sales@ldpi-inc.com

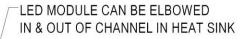


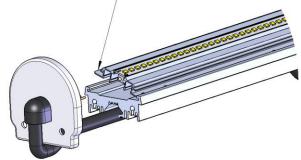
ii. WHEN OPTIC IS REMOVED LED MODULE WILL NO LONGER BE SECURE! 1. BE CAREFUL OF LED MODULE FALLING!

3. <u>Remove LED module</u>

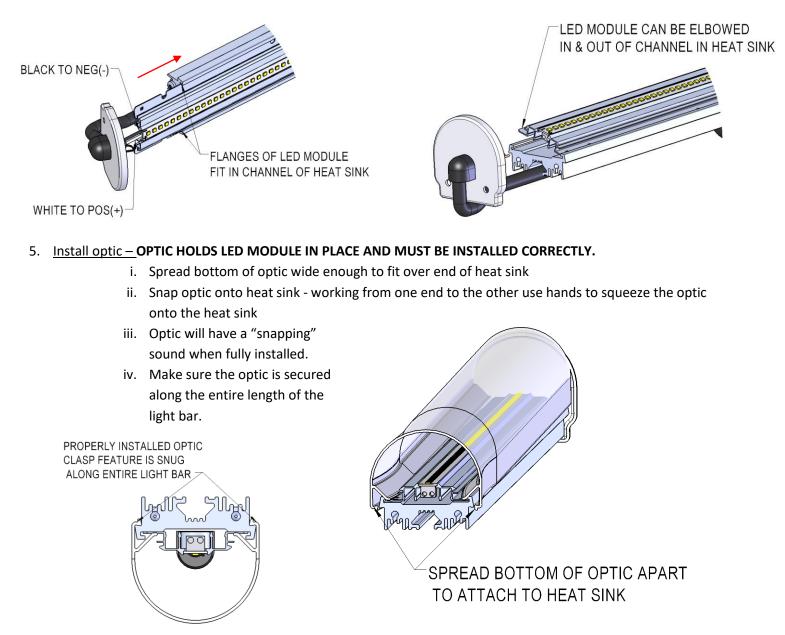
- a. Leave cable in end cap
- b. Hold LED module against heat sink with hand and quickly pull end cap away from LED module
 - i. Cable will "pop" out of connectors on LED module
 - ii. Let the end cap and cable hang
 - iii. Set LED module aside

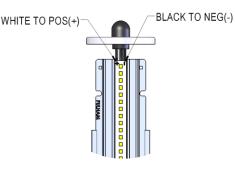






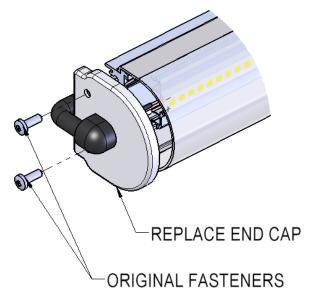
- 4. Install new LED module:
 - a. Always handle new LED modules with clean gloves.
 - a. Connect cable to LED module
 - i. Push each wire into the connector on the bottom of the LED module.
 - 1. White to pos (+)
 - 2. Black to neg (-)
 - ii. You will hear a sharp click when connector is engaged
 - iii. Test pull wires to make sure connection is secure
 - b. Place LED module on heatsink
 - i. Flanges of led module fit in outside channel of heat sink
 - ii. Slide LED module fully onto heat sink, leave end cap loose until optic is replaced





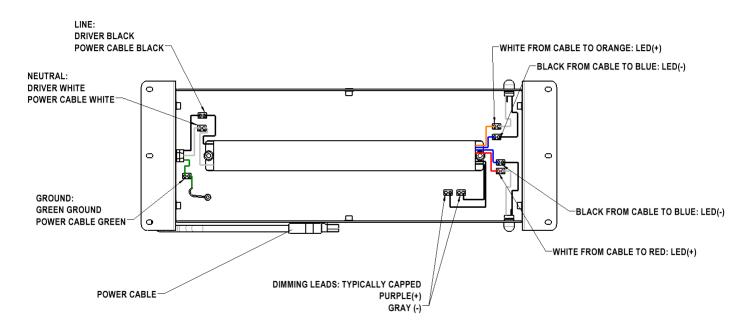
b. Replace end cap

i. Use original fasteners.



DRIVER WIRING SCHEMATIC - TYPICAL:

Note - Basic Schematic: dimming connection, surge protection device and EM option not shown here.



EM FIXTURE INFORMATION:

TEST SWITCH INDICATOR STATUS:

Indicators Type	LED Indicators Status	EM Driver Status/Mode	
Bi-Color Indicator		System OK/AC OK (Solf diagnostic Enchlad or Diaphad)	
Single Color Indicator Solid RED ON		System OK/AC OK (Self-diagnostic Enabled or Disabled).	
Bi-Color Indicator	None. Both LEDs OFF	Normal uprking in EM mode	
Single Color Indicator	None. LED OFF	Normal working in EM mode.	
Bi-Color Indicator	 Slow Flashing Red, 4s on/1s off 	Pattery not detected sheet bettery switch or connection	
Single Color Indicator	 Slow Flashing Red, 4s on/1s off 	Battery not detected, check battery switch or connection.	
Bi-Color Indicator	● Flashing Red, 1s on/1s off		
Single Color Indicator	 Flashing Red, 1s on/1s off 	Replace battery.	
Bi-Color Indicator	 Flashing Green, 2s on/2s off 	Solf Diagnostic test underway	
Single Color Indicator	 Flashing Red, 2s on/2s off 	Self-Diagnostic test underway.	
Bi-Color Indicator	 Fast Flashing Red, 0.1s on/0.1s off 	Abnormal driver performance, replace driver	
Single Color Indicator	 Fast Flashing Red, 0.1s on/0.1s off 	Abnormal driver performance, replace driver.	
Bi-Color Indicator	 Very Slow Flashing Red, 1s on/7s off 	f Over temperature	
Single Color Indicator	 Very Slow Flashing Red, 1s on/7s off 	Over temperature.	
Bi-Color Indicator	Very Slow Flashing Red, 4s on/4s off	f LED output load is Short/Over Current/Over Voltage/Open	
Single Color Indicator	 Very Slow Flashing Red, 4s on/4s off 	Circuit in EM Mode	