

# LED Indoor Luminaires Linear Ceiling Mount 120-277VAC / 60Hz

Model # PRCL450750LAJUDWH-MS

## Safety Precautions

- Read all safety precautions and installation instructions carefully before installing or servicing this fixture. Failure to comply with these instructions could result in potentially fatal electric shock and/or property damage.
- It is recommended that a qualified electrician perform all wiring. This fixture must be wired in accordance with all national and local electrical codes.
- Do not handle any energized fixture or attempt to energize any fixture with wet hands or while standing on a wet or damp surface or in water.
- This fixture is designed for use in a 120-277VAC, 60Hz fused circuit. This fixture is compatible with 2-wire Triac, ELV or 0-10V dimmers.
- Make sure that the power source conforms to the requirements of the fixture. (See labels on the fixture housing).
- To reduce the risk of electrical shock, and to assure proper operation, this fixture must be adequately grounded. To accomplish proper grounding, there must be a separate ground wire (green) contact between this fixture and the ground connection of your main power supply panel.
- This fixture is intended to be used for general indoor lighting in dry or damp locations.
- Disclaimer

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules and Canadian ICES-005 (B) / NMB-005 (B). 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. If this equipment does cause harmful interference to radio or television reception, 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 receiver 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 with the dealer or an experienced radio/TV technician for help.

Any modifications to this fixture may void the warranty and interfere with the safe operation of the luminaire.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

## Assembly Instructions

### 1. Preparing for installation.

- A. **Disconnect electrical power** before installing or servicing any part of this fixture.
- B. Remove fixture from carton; remove components from hardware kit.
- C. Remove plastic lens (4) from the fixture by depressing either edges then slide plastic toward depressed side until it bottom out to the end cap.
- D. Align the channel assembly (1) with wires directly under junction box (not included) and mark all appropriate mounting locations. Take the channel assembly (1) down and punch a small hole in the wall at each of the marked locations using a nail to see if there is a ceiling stud to mount the fixture. Where there is a stud, use a suitable wood screws (2 -not included) to mount the fixture. Where there is no stud to screw into, a toggle bolt or drywall anchors (3 -not included) must be used to mount the channel assembly securely to the ceiling.

### 2. Wiring.

**All wiring must take place inside junction box (not included). Caution:** Make sure power is off at fuse or circuit breaker box. Check power wires for damage or scrapes. If the power supply wires are within three inches of the LED driver, use a wire suitable for at least 90°C (194°F). **Note:** Most dwellings built before 1985 have supply wire rated to 60°C. Consult a qualified electrician before installing.

- A. This unit will not operate properly unless connected to a "grounded" electrical circuit. Electrical shock, overheating, low or no light output, and shortened LED life can result if proper grounding is not done. Securely attach power source ground wire and fixture ground wire to green ground screw on rectangular mounting bracket.
- B. Make all wire connections to appropriate wire. Secure with wire nuts (provided).
- C. **For none-dimming fixture.** Connect white fixture lead to white (N) wire from supply power source. Connect black fixture lead to black (L) wire from supply power source.
- D. **For TRIAC dimming.** Connect white fixture lead to white (N) wire from dimming source per dimmer wiring instructions. Connect black fixture lead to black (L) wire from dimming source per dimmer wiring instructions.
- E. **Do not mix wires.** Pull on each wire lead to make sure connections are secure. Make certain no bare wires are exposed outside of wire connectors. Tuck all connections neatly into junction box.

### 3. Mounting.

- A. Install the channel assembly (1) by aligning to the pilot holes or plastic anchors (3 -not included) then securely fasten to ceiling with screws (2 -not included).

### 4. Color Changing Temperature Adjustment, CCT (if desired).

- A. Adjust the single dipswitch at the end of the LED board accordingly to the desired color temperature as shown per FIG. 1. **Note:** Fixture is preset to 3500K from factory.

### 5. Diffuser installation.

- A. Install the diffuser (4) to the channel by inserting one side inside the end cap and other side slightly clear the end cap. Note: Depress the lens on one side and slide until the other side fit between the end caps and slide over to ensure diffuser is center to the pan.

### 6. Power to the fixture can now be restored.

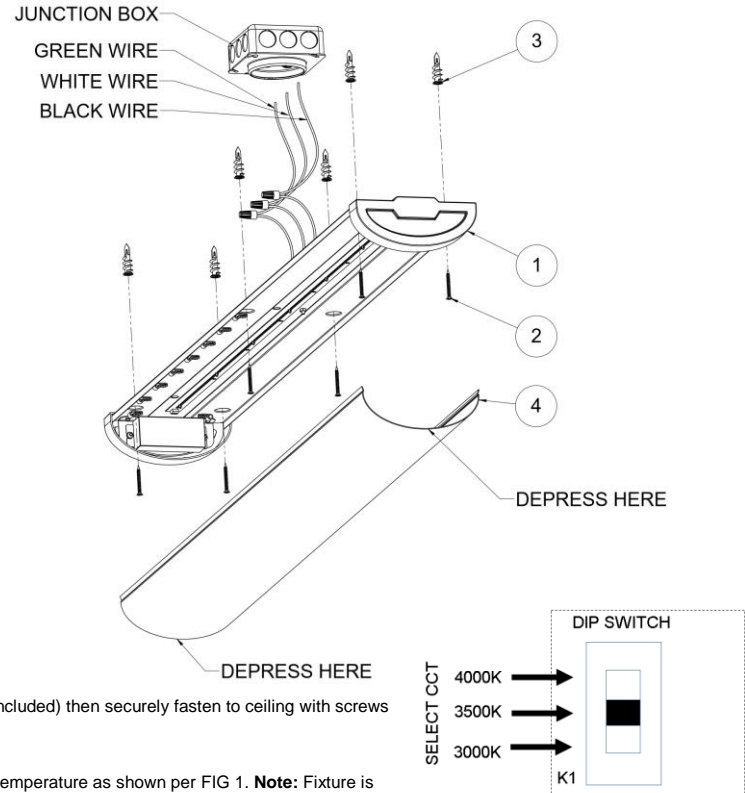
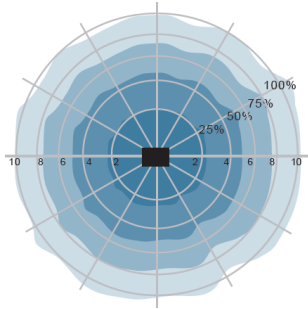


FIG. 1

### Limited Factory Warranty

AFX Inc. hereby warrants that this fixture is free from defects in materials and workmanship when installed and used under normal operating conditions for a period of 5 years from date of shipment from factory. This warranty covers all component parts and extends only to replacement of defective fixture or components; it does not cover failure due to improper installation, misuse, mishandling or damage incurred in transit.



Ceiling mounting pattern (Unit: m)



MOTION SENSOR MODULE –  
FACTORY SETTING DETAIL

7. Follow this guideline for alternate motion sensor setting: ensure power to the fixture is disconnected before attempting to make any adjustment to dip switches on this fixture.

## Settings

By selecting the combination on the DIP switches, sensor data can be precisely set for each specific application.

ON ↑ [Switch]		1	2	
	I	ON	ON	100%
	II	ON	-	75%
	III	-	ON	50%
	IV	-	-	10%

### Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application .

ON ↑ [Switch]		3	4	5	
	I	ON	ON	ON	5S
	II	-	ON	ON	30S
	III	ON	-	ON	90S
	IV	-	-	ON	3min
	V	ON	ON	-	20min
	VI	-	-	-	+∞

### Hold time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

ON ↑ [Switch]		6	7	8	
	I	ON	ON	ON	0S
	II	-	ON	ON	5S
	III	ON	-	ON	5min
	IV	-	-	ON	10min
	V	ON	ON	-	30min
	VI	-	ON	-	1h
	VII	-	-	-	+∞

### Stand-by period

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people.

When set to “+∞” mode, the low light is maintained until motion is detected.

ON ↑ [Switch]		1	2	3	4	
	I	-	-	ON	ON	2Lux
	II	-	-	-	ON	5Lux
	III	-	ON	ON	-	10Lux
	IV	-	-	ON	-	25Lux
	V	-	ON	-	-	50Lux
	VI	ON	-	-	-	100Lux
	VII	-	-	-	-	Disable

### Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.

When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.

50lux, 30lux: twilight operation, 10lux, 5lux: darkness operation only.

Note that daylight sensor is active only when lamp totally switches off.

ON ↑ [Switch]		5	6	
	I	ON	ON	50%
	II	-	ON	30%
	III	ON	-	20%
	IV	-	-	10%

### Stand-by dimming level

The low light level you would like to have after the hold time in the long absence of people.