INSTALLATION INSTRUCTIONS

LINEAR HIGH BAY

MODELS

Model	Voltage	Wattage	Lumen SELECT	CCT SELECT
HBL-110CLS-CR	120-277V	110W-85W-60W	15K-12K-9K	3500K-4000K-5000K
HBL-175CLS-CR	120-277V	175W-140W-110W	24K-20K-16K	3500K-4000K-5000K
HBL-215CLS-CR	120-277V	215W-160W-120W	30K-24K-18K	3500K-4000K-5000K
HBL-320CLS-CR	120-277V	320W-270W-220W	45K-39K-33K	3500K-4000K-5000K
HBL-420CLS-CR	120-277V	420W-380W-320W	60K-55K-48K	3500K-4000K-5000K
HBL-215CLS-CR-EM	120-277V	215W-160W-120W	30K-24K-18K	3500K-4000K-5000K

WARNING: RISK OF ELECTRICAL SHOCK
- Turn off the electrical power at fuse or circuit breaker box before wiring fixture to power supply.
- Turn off the power when you perform any maintenance.
- Verify that supply voltage is correct by comparing it with the luminaire label information.
- Make all electrical and grounded connections in accordance with the National Electrical Code and any applicable local code requirements.
- MIN 90°C SUPPLY CONDUCTORS.
- All wiring connections should be capped with UL approved wire connectors.

CAUTION: RISK OF FIRE
- Keep combustible and other materials that can burn away from luminaire and lamp/lens.

CAUTION: RISK OF INJURY
- Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance.
- Allow lamp/fixture to cool prior to handling light source.
- Avoid direct eye exposure to the light source while it is on.
- Account for small parts and destroy packing material, as these may be hazardous to children.
- Ensure fixtures are properly secured to and installed using all appropriate hardware intended to support the weight of the luminaire.

READ AND FOLLOW ALL SAFETY INSTRUCTIONS!
SAVE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

General Safety & Product Information
- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards read all warnings and instructions included with and on the fixture box and all fixture labels.
- Commercial installation, service and maintenance of luminaires should be performed by a qualified licensed electrician.
- DO NOT INSTALL DAMAGED PRODUCT
- Use fixture only in intended application
- Allow for proper ventilation and air movement around luminaire. Do not exceed maximum ambient operating temperature
- Recycling information on LED Products please visit WWW.EPA.GOV
- These instructions may not cover all variations in equipment, application, operation and maintenance. Should further information be required please contact support@els-led.com
- Fixture components are not serviceable. In the event of product failure please refer to product warranty guidelines at www.els-led.com

ELEVATE LIGHTING SOLUTIONS

1000 Commerce Center Dr, Elkton MD 21921   Support@ELS-LED.com
els-led.com   (718).338.1851   Fax: (718).228.1851
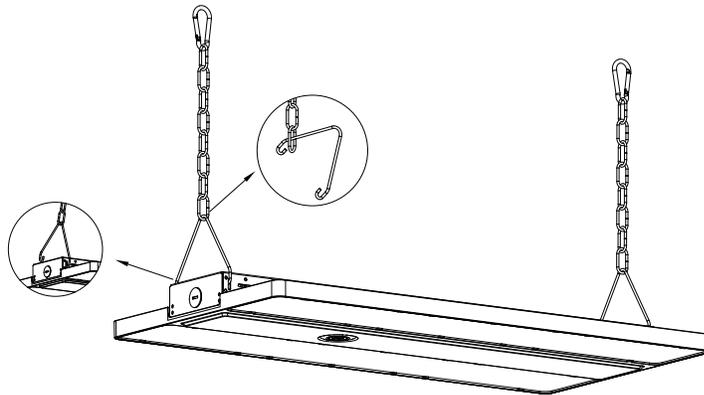orders@els-led.com

INSTALLATION AND WIRING INSTRUCTION

Installation Methods: Installation Methods: Chain mount, Surface Mount, Pendant Mount (Please choose the most suitable installation method for the purchased product as per your needs). Secure the luminaire to a supporting structure.

1. Install both V-hooks onto each side of the fixture body. Connect the V-hooks to the chains with the hooks on each chain. Adjust the height of the installation by locking the chain hook on the other side of the chain. Use the flexible metallic conduit to run the line, neutral and ground wires for powering the fixture.(See figure 1)
2. Optional: Adjust the selector switch for the desired CCT and Wattage to achieve desired lumen output and color temperature. Remove cap to access the selector switches, set switches and replace cap. (See figure 2)
3. Connect wires: make all electrical connections to the Main supply in accordance with NEC requirements.
4. Optional Motion Sensor (Sold Separately): Remove cap in center of the LED array and install sensor securing tightly. (See figure 5) Refer to Sensor programming instructions using remote control
5. NPT Installation: (accessory sold separately). (See figure 3)
    a. Mount bracket on a ¾" NPT
    b. Lock Fixture to bracket with hardware
    c. Make wire connections according to NEC
    d. Assemble all brackets with hardware and tighten
6. Surface Mount Install (accessory sold separately). (See figure 4)
    a. Mount brackets to suitable surface with hardware
    b. Assemble the fixture body to the support brackets and tighten all hardware
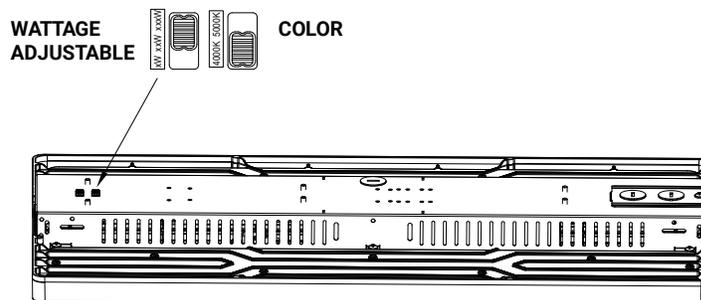   c. Make all wire connection according to NEC

FIGURE 1

WIRING

- Black – Hot, White Neutral 120v-277v , Green – Ground
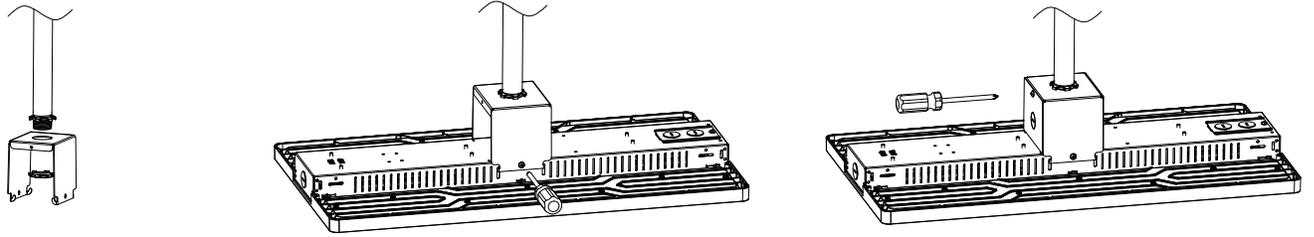- Purple – Dime +; Pink – Dim – (0-10v) Dimming Optional Connection

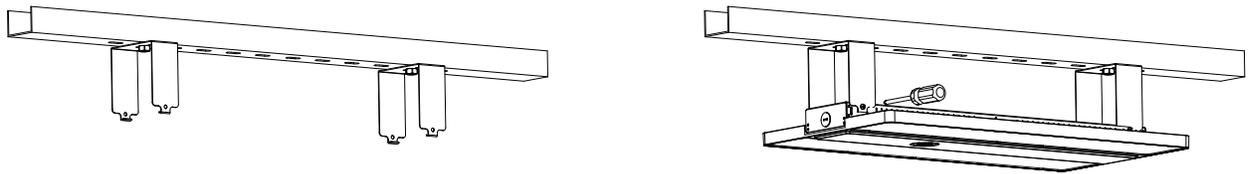**FIGURE 2**

WATTAGE ADJUSTMENT SWITCH + CCT SWITCH

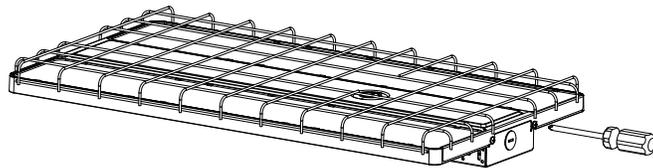**The Installation must be carried out by a qualified electrician**

Pendant (sold separately) (FIGURE 3)

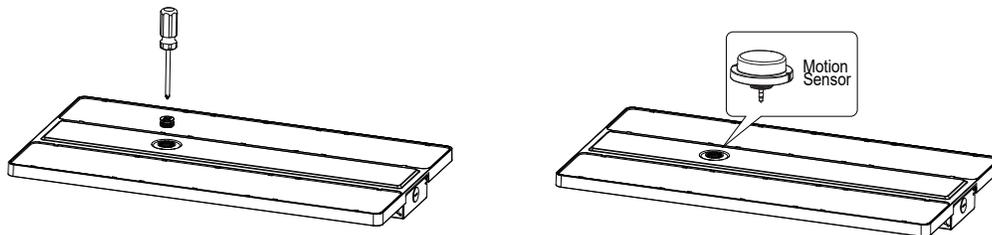**Surface Mount (sold separately) (FIGURE 4)**

WIRE GUARD (sold separately) (FIGURE 5)

SENSOR INSTALLATION INSTRUCTION(sold separately)

1. Remove the plug from the underside of the fixture body.
2. Install the sensor and tighten securely.
3. Use a Remote control or Bluetooth app for changing factory settings

FIGURE 6

Motion Sensor

COMPATIBLE SENSOR MODEL	SENSOR TYPE	PROGRAMMING
KEILTON/LITETRACE EFS07-AUX	PIR	KEILTON RM51
KEILTON/LITETRACE EFS106	Bluetooth PIR	KEILTON APP
SHARKWARD AANT-6-4T-KN-VAL	PIR	MANUAL DIALS

The Installation must be carried out by a qualified electrician
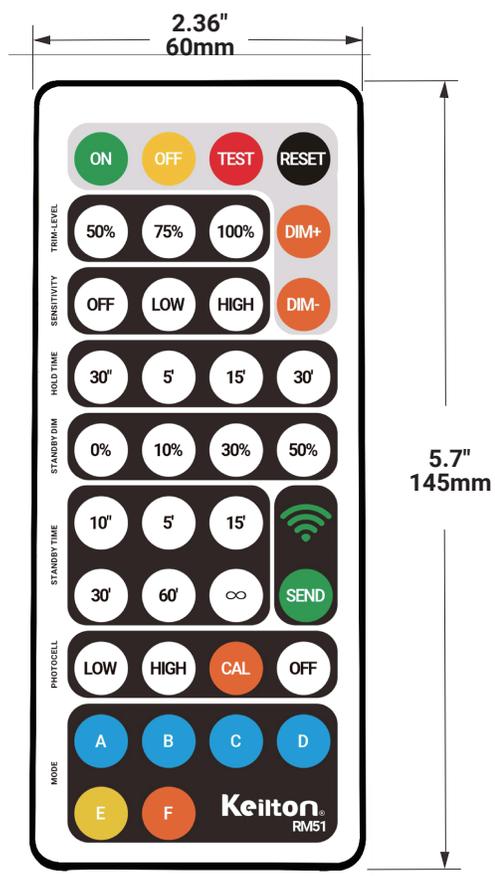
INSTRUCTION FOR REMOTE CONTROL (Sold Separately)
Model # RM51
SPECIFICATIONS

Communication Mode	Infrared
Supply Voltage	3V(provided 1 or 2 pcs CR2032 battery)
Housing Material	Plastic
Flame Rating	HB
Working Humidity	≤90% RH
Operating Temperature	0°C to 45°C, 32°F to 113°F
Dimension	5 years dimension

REMOTECONTROL

ON	Turns ON luminaires.
OFF	Turns OFF luminaires.
TEST	Test mode will last **5 minutes**, then return to the previous setting. In test mode, the hold time is **2 seconds**, SDL is **50%**, and the standby time is **2 seconds**.
RESET	Trim-High = **100%**, Sensitivity = **High**, T1 = 5 min, Standby Dim = 30%, T2 = 60 min, Photocell = **OFF**.
DIM+/-	Remote will manually dim the luminaire up or down in increments of **0.5 volts**. **Smooth dimming** should occur when holding the dimming button.
TRIM-LEVEL	Set maximum threshold value at 50%, 75%, or 100%.
SENSITIVITY	OFF (**PIR OFF, Enter PC ON/OFF function**) / LOW (**50%**) / HIGH (**100%**).
HOLDTIME	**Time of no occupancy after which the fixture goes to standby: 30s / 5 min / 15 min / 30 min.**
FMODE DAYLIGHT HARVESTING	**(Enable/Disable) Measures and sets a feature to allow the fixture to maintain a light level when turned ON.**
STANDBY DIM	Select any standby dim level: 0% / 10% / 30% / 50%.
STANDBY TIME	10s / 5 min / 15 min / 30 min / 1h / ∞. "∞" means the standby time is **infinite**, and the fixture is effectively controlled by the daylight sensor.
PHOTOCELL	LOW (1fc) / HIGH (50fc) / CAL (Collects the current Lux Level) ON.
MODE	Set settings to a program profile (A to F).
SEND	Send settings to the sensor.
DEFAULT MODE A	Trim-High = **100%**, Sensitivity = **Low**, T1 = **30 min**, Standby Dim = **50%**, T2 = ∞, Photocell =**CAL**.
DEFAULT MODE B	Trim-High = **100%**, Sensitivity = **Low**, T1 = **30 min**, Standby Dim = **50%**, T2 = **15 min**, Photocell =**CAL**
DEFAULT MODE C	Trim-High = **100%**, Sensitivity = **Low**, T1 = **30 min**, Standby Dim = **50%**, T2 = **15 min**, Photocell =**OFF**.
DEFAULT MODE D	Trim-Low = **50%**, Sensitivity = **Low**, T1 = **30 min**, Standby Dim = **50%**, T2 = **30 min**, Photocell =**CAL**
DEFAULT MODE E	Manual Mode, Trim-High = **100%**.
DEFAULT MODE F	Daylight Harvesting, Trim-Low = **50%**, Sensitivity = **Low**, T1 = **15 min**.

2.36"
60mm

5.7"
145mm

Keilton
RM51

INSTRUCTION FOR BLUE TOOTH APP

To download the Keilton NLC APP, scan the QR code below, which corresponds to the type of smart phone/tablet that will be downloading the APP:

Keilton iOS

Keilton Android
@GooglePlay

The APP supports most Android smart phones. Some Android phone models may not be supported due to issues with the phone's hardware or firmware. The APP requires access to the network and Bluetooth, so please approve access requests from the APP. The APP will not collect user's private data. Accept the prompt to allow access to photos for QR codes to be automatically saved in your album.

LiteTrace will update the APP when there are new features or bug fixes. Please enable the auto update of the APP so that new version of the APP will be pushed to your mobile phone.

Please click the link here for getting instructions of APP: https://www.youtube.com/@LiteTrace/videos

The Installation must be carried out by a qualified electrician