

COMMERCIALPRO SERIES

lampar<sup>AR</sup>CH

# LLSN

LED STRIP LIGHT  
2FT | 4FT | 8FT

COMMERCIAL GRADE



## PRODUCT OVERVIEW

The lampar<sup>AR</sup>CH LLSN-Series LED strip light fixture is engineered to replace traditional applications of fluorescent lamps. It's profile is advantageous for daisy-chained, end-to-end surface or suspended mounting.

Featuring instant-ON and uniform light output, the LLSN-series will exceed lighting demands for commercial buildings such as offices, warehouse, garage, or general lighting applications.



### MODEL SPECIFICATIONS

Model	Watt	Lumens	Voltage	CCT	LPW	Length
LLSN10	10W	1,300LM	100-277V	3500K 4000K 5000K	130LM/W	2FT
LLSN24	24W	3,120LM	100-277V		130LM/W	2FT
LLSN24	24W	3,120LM	100-277V		130LM/W	4FT
LLSN40	40W	5,200LM	100-277V		130LM/W	4FT
LLSN40	40W	5,200LM	100-277V		130LM/W	8FT
LLSN64	64W	8,300LM	100-277V		130LM/W	8FT

### ORDERING GUIDE

Model Series	CCT (K)	Length (FT)	Series Code	Option Code
LLSN10   10W LLSN24   24W	35   3500K 40   4000K	2   2FT	Blank   staticARCH S3   selectARCH:	Blank   None * EM08   Fixture + External Emergency Driver **
LLSN24   24W LLSN40   40W	41   4100K*** 50   5000K	4   4FT	3500K 4000K 5000K	IE   Fixture + Integrated Sensor + Emergency Driver ** IS   Fixture + Integrated Sensor **
LLSN40   40W LLSN64   64W		8   8FT		

\* Standard option

\*\* Integral Controls & Emergency Drivers

\*\*\* 4100K is only available on the staticARCH 4FT fixture

Choose Your Model Specifications Above:

LLSN40	40	4	S3	IS
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**Example Ordering Number:**  
**LLSN40-40-4-S3-IS**

### PROJECT DETAILS

Project Name	
Fixture Schedule	
Product Number	
Notes	

### KEY FEATURES

- EASY INSTALLATION & LOW MAINTENANCE COST
- LINKABLE DESIGN SUITABLE FOR UNIFORM END-TO-END LIGHT RUN
- THERMALLY ISOLATED DRIVER FOR ADVANCED HEAT DISSIPATION
- EASY TO MOUNT IN SUSPENDED OR SURFACE METHODS
- HIGH-DENSITY LED CHIPS FOR UNIFORM LIGHT OUTPUT
- 7-YEAR, 75,000HR WARRANTY
- UL DAMP LOCATION LISTED
- DLC PREMIUM LISTED

### KEY SPECIFICATIONS

- **Housing:** Durable Stamped Aluminum
- **Operating Temp:** -10°F — 130°F
- **Input Voltage:** 100-277Vac
- **IP:** UL Damp Location Listed
- **PF:** >0.92 Non-Flicker
- **Efficacy:** >130LM/W
- **Dimming:** 1-10V
- **THD:** <15%
- **CRI:** >80

### APPLICATIONS



Warehouse



Parking  
Garage



Office Space



Schools



General

### CERTIFICATIONS



## PHYSICAL FEATURES

### Advanced Lens

High-quality polycarbonate lens is shatter-resistant for safety and optimized for efficiency.

### Aluminum PCB

Advanced aluminum printed chip board provides much higher heat tolerance than industry standard fiber glass.

### Thermally Isolated Driver

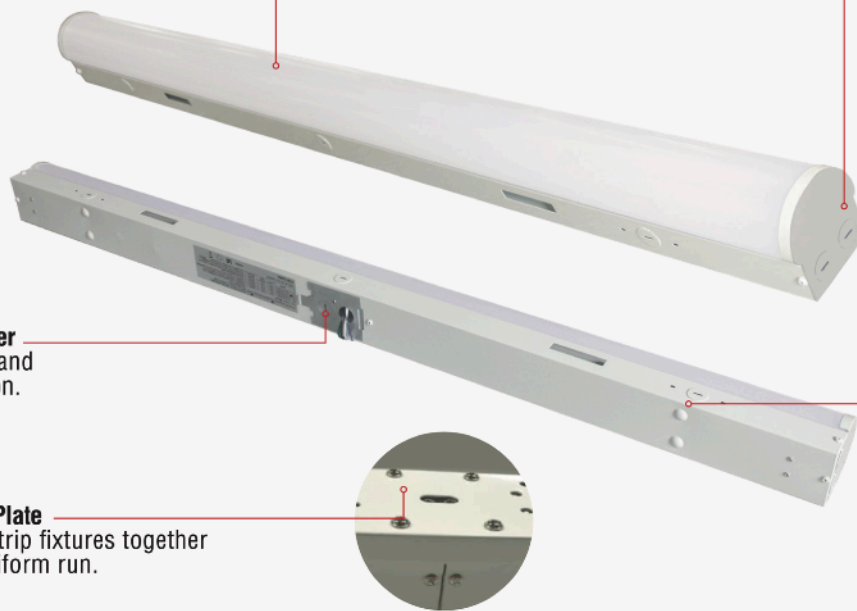
Isolated for efficiency and optimal heat dissipation.

### Daisy-Chain Assembly Plate

Easy to pair multiple strip fixtures together for one contiguous uniform run.

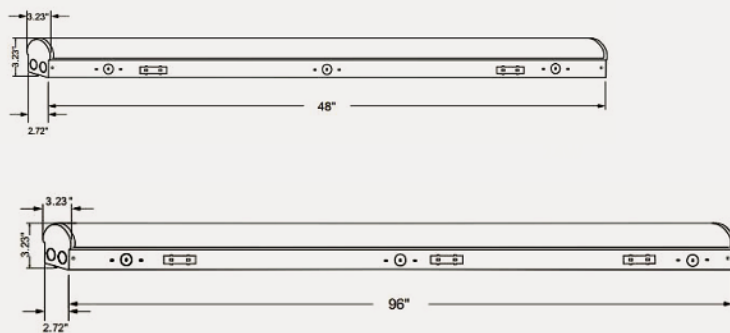
### Smart Knockouts

Bug-proofed smart knockouts ensure you have the appropriate installation zones while keeping the bugs out.



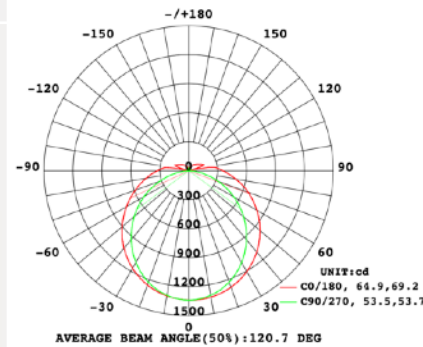
## SIZING & MEASUREMENTS

Size	Width (in)	Height (in)	Depth (in)	Weight (lb)
2FT	2.27	3.35	24	2.55
4FT	2.27	3.35	48	4.85
8FT	2.27	3.35	96	9.75

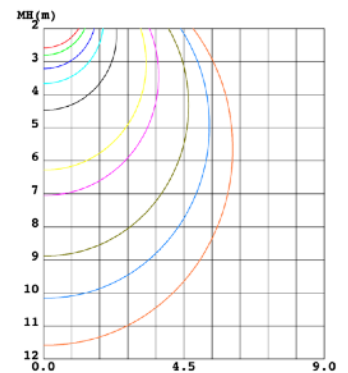


## PHOTOMETRICS




### LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

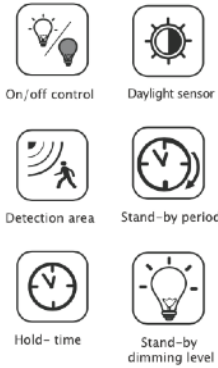


### PLANE ISOLUX DIAGRAM

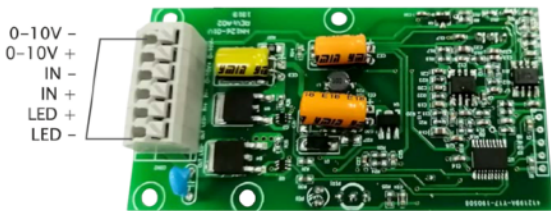


## ACCESSORIES

Surface Mounting Kit	Daisy-chain assembly plate, mounting screws and mounting plates	
Suspension Mounting Kit	S-Hooks, aircraft cables and tightening hardware	
Wire Guard	Wire guard	



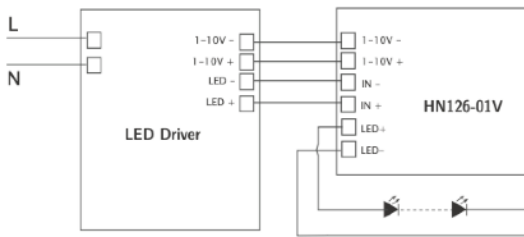
### TECHNICAL SPECIFICATIONS



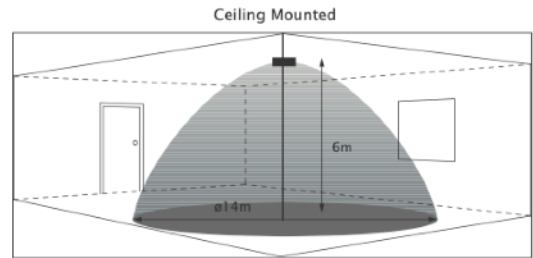
### INTEGRATED SENSOR (Option Code: -IS)

Model Number	LLSN-IS
Product Number	HN126-01V
Operating Voltage	20-55Vdc
Standby Power	<0.5W
Output Voltage	0-10V
Detection Area	25%   50%   75%   100%
Hold-Time	5S   30S   1min   3min   5min   10min   20min   30min
Daylight Threshold	2Lux   10Lux   30Lux   50Lux   80Lux   120Lux   Disable
Standby Period	0S   10S   30S   1min   5min   10min   30min   ∞
Standby Dimming Level	10%   20%   30%   50%
Microwave Frequency	5.8GHz±75MHz
Microwave Power	<1mW
Mounting Height	Max: 20FT (Ceiling Mounted)
Detection Range	Max: 46FT (Ceiling Mounted)
Operating Temperature	-4°F — 140°F
Dimension	3.2 x 1.7 x 1 inches

### WIRING DIAGRAM



### DETECTION COVERAGE



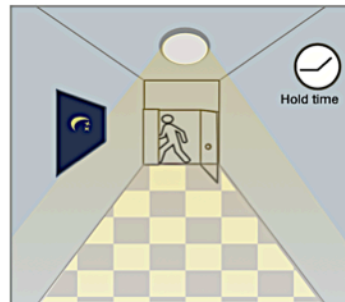
### FUNCTION & APPLICATIONS



With sufficient daylight, even when motion detected, light remains OFF.



With insufficient daylight, when motion detected, light ON.

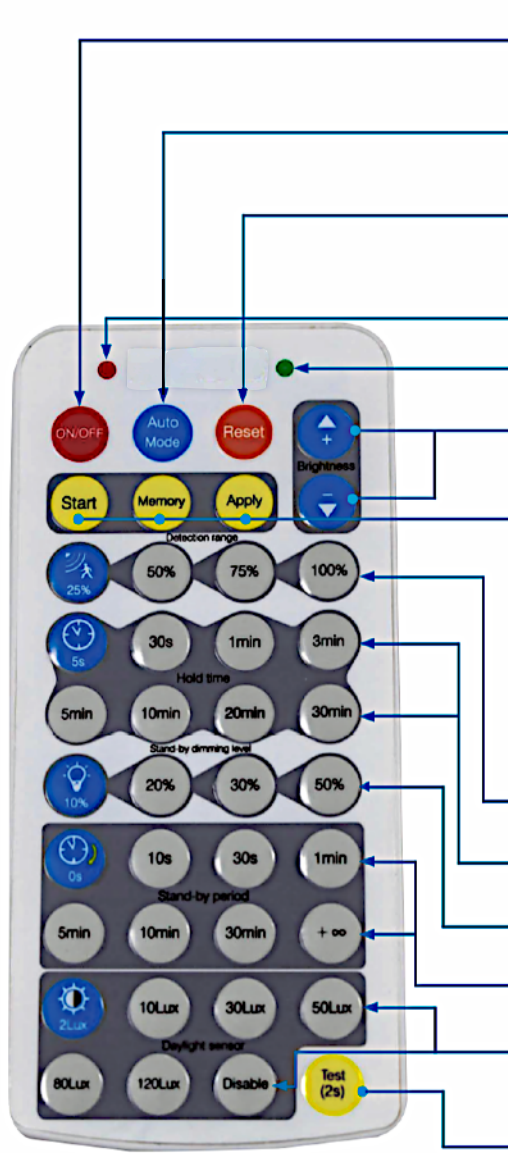


After last detection, the light will be dimmed down to the stand-by dimming level(10%,20%,30% or 50%) after holdtime.



After the stand-by period, light OFF.

## REMOTE CONTROLLER SETTINGS (LLSN-RM)



**ON/OFF**  
 Press the "On/off" button, the light keeps permanently on or off. Press "Auto Mode" , "Reset" or "Apply" buttons to quit from this mode.

**Auto Mode**  
 Press "Auto Mode" button, the sensor starts to work and all settings remain the same before the light gets switched on/off.

**Reset**  
 1. Press "Reset" button, change brightness to max level.  
 2. Press "Reset" button, products with DIP switch will be controlled by DIP switches; otherwise all the setting will be just initial, that is 100% detection range, hold time 5S, no stand-by time and daylight threshold disabled.

Flick after press any button

Flick only after press "Apply" button

+/-  
 1. To adjust brightness 10-100% in on/off mode.  
 2. To adjust highest brightness 60-100% in sensor mode.

**Start**  
 Press "Start" to customize scene, users can change detection range, daylight threshold, holdtime, standby dimming level and standby period.

**Memory**  
 1. Press "Memory" to save all the settings.  
 2. The settings remained as the last time if not get resetted values.

**Apply**  
 1. Press "Apply" to deliver the saved setting.  
 2. Press "Apply" without "memory" will make all the setting one-time operation.  
 3. Settings should be done within 30S, otherwise it exits memory mode.

**Detection area** (Press to define detection area 100%/75%/50%/25%)

**Hold time** (Press to define holdtime 5s/30s/1min/3min /5min/10min/20min/30min .)

**Stand-by dimming level** (Press to define stand-by dimming level 10%/20%/30%/50%.)

**Stand-by period** (Press to define stand-by period 0s/10s/30s/1min/5min/10min/30min/ +∞.)  
 Note: "0s" means no standby period; "+∞" means unlimited standby period.

**Daylight threshold** (Press to define daylight level 2Lux /10Lux /30Lux/50Lux/80Lux/120Lux/Disable.)  
 Note: Disable means light will be turned on once sensor detects movement, regardless of the ambient lux.

**Test (2s)**  
 The button "Test (2s)" is for testing purpose after commissioning. Pressing this button, the sensor goes to test mode ( hold time is only 2s )

## OPERATIONAL NOTES

1. ON/OFF buttons take primary control over configured settings.
2. Fixture will flicker to confirm receipt of control signals.
3. Configurations will be automatically saved.

### Memory Mode:

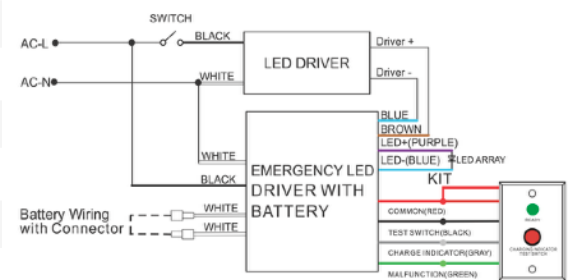
- a. Press START, then set parameters in each of the five zones, then press APPLY to save the desired settings:
  - i. DETECTION AREA
  - ii. HOLD TIME
  - iii. STANDBY DIMMING LEVEL
  - iv. STANDBY PERIOD
  - v. DAYLIGHT SENSOR
- ii. Press APPLY without pressing MEMORY will not be saved for future use.
- iii. Settings must be completed within 30seconds before you will be required to start over.

## PERFORMANCE SPECIFICATION

Model No.	LLSN-EM08
Product ID	BLD-AM20D-480800
Universal Input Voltage	100-277Vac, 50/60Hz
AC Input Current	Max: 90mA
AC Input Power Rating	Max: 6.0W
Output Current & Voltage	420-800mA   25V-48V (Class 2)
Output Power	8W Constant Current, Max: 20W
Illumination Time	90 Minutes
Test Switch   Charging Indicator	Low Voltage, Illuminated Test Switch
Battery	High-Temperature   Maintenance-Free   Ni-MH Battery
Battery Charging Current	250mA
Recharge Time	24Hrs
Temperature Rating (Ambient)	32°F — 122°F
Dimensions	15 x 2.2 x 1.3"   2' Flexible Conduit
Weight	3.2lbs
Warranty	5-Years



## WIRING DIAGRAM



1. DO NOT MATE CONNECTORS UNTIL INSTALLATION IS COMPLETED AND AC POWER IS SUPPLIED.
2. TEST ACCESSORY LEADS-OBSERVE PROPER POLARITY WIRING.

## INSTALLATION GUIDE

### PLEASE READ ALL INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION

- Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED Emergency Backup. Check for enclosed wiring and components.
- Risk of fire or electric shock. This LED Emergency Backup installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- Before installing, make sure the AC power to the fixture is off.
- The electrical rating of this product is 100-277V. Installer must confirm that there is 100-277Vac the fixture before installation.
- To prevent electrical shock, only mate unit connector after installation is complete and before the AC power to the fixture is back on.
- This LED Emergency Backup unit requires an un-switched AC power source of 100-277V, 50/60Hz. The AC driver must be on the same branch circuit as the LED Emergency Backup unit.
- Do not let power supply cords touch hot surfaces.
- Do not mount near gas or electric heaters.
- Do not join battery pack connector until all other wiring is complete and AC power is on.

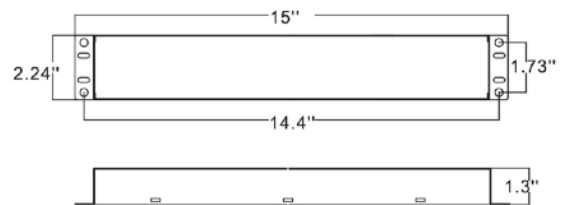
## APPLICATIONS

**AC Operation:** AC power is present. The AC driver operates the LED load as designed. AC LED driver that has an output current not to exceed 4.0 A. The emergency pack is charging in a standby mode. The charging indicator will be lit, showing that the battery is charging.

**Emergency Operation:** When the AC power goes out, the emergency pack detects the power outage and automatically switches to the emergency mode. The charging indicator will be off. The LED load is illuminated, for a minimum of 90 minutes. When AC power is restored, the emergency pack switches back to Normal Mode and starts re-charging.

**Manfunction Mode:** When the emergency driver internal circuit without fault and battery normal, the green LED will be lit. When battery is disconnected and the emergency driver circuit fault, the green LED off.

## SIZE & MEASUREMENTS



## APPLICATIONS

The LLSN-EM emergency driver can be used with most LED loads that have a rated voltage of 25-48Vdc. These emergency driver have been evaluated to and found compliant to UL 924. The emergency pack assembly is accepted as a component of a luminaire where the suitability of the combination shall be determined by UL or Authorities Having Jurisdiction. The as-installed performance of the system must meet or exceed all Federal, State, and Local code requirements.

## DIAL SWITCH CODE CONFIGURATION

EMERGENCY POWER			
Power	Voltage	1	2
20W	25-48Vdc	—	—
15W		—	ON
10W		ON	—

**DLC MODEL GUIDE**

Product ID	Model No.	DLC	Watt	Lumen	Efficacy	THD	PF	CCT	CRI	Voltage
<b>LLSN10   2FT</b>										
P43N4X8W	LLSN10-30-2[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	10	1,380	138	15	0.90	3000	80	100 - 277Vac
PXSLWW89	LLSN10-35-2[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	10	1,380	138	15	0.90	3500	80	100 - 277Vac
PMIQ93PQ	LLSN10-40-2[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	10	1,390	139	15	0.90	4000	80	100 - 277Vac
PP4YGZL0	LLSN10-50-2[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	10	1,400	140	15	0.90	5000	80	100 - 277Vac
<b>LLSN24   2FT</b>										
P3XQOMHU	LLSN24-30-2[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	24	3,190	133	15	0.90	3000	80	100 - 277Vac
P02AA5K5	LLSN24-35-2[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	24	3,190	133	15	0.90	3500	80	100 - 277Vac
PWYD3GH0	LLSN24-40-2[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	24	3,215	134	15	0.90	4000	80	100 - 277Vac
PMBKSL23	LLSN24-50-2[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	24	3,240	135	15	0.90	5000	80	100 - 277Vac
<b>LLSN24   4FT</b>										
P9LFK5QT	LLSN24-30-4[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	24	3,120	130	15	0.90	3000	80	100 - 277Vac
PRQEDQHE	LLSN24-35-4[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	24	3,120	130	15	0.90	3500	80	100 - 277Vac
P17RJ2TA	LLSN24-40-4[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	24	3,165	132	15	0.90	4000	80	100 - 277Vac
P9UGO5O8	LLSN24-50-4[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	24	3,215	134	15	0.90	5000	80	100 - 277Vac
<b>LLSN40   4FT</b>										
PLWTP7HO8E48	LLSN40-41-4	Premium	40	5,036	127	11	0.90	4000	85	100 - 277Vac
PLYIQP3Q1OGL	LLSN40-50-4	Premium	42	5,422	131	12	0.91	5000	85	100 - 277Vac
PORIAITJ	LLSN40-30-4[Blank,IS,EM08,IE]-[Blank,RM]	Standard	40	5,400	135	15	0.90	3000	80	100 - 277Vac
P3P4N3FB	LLSN40-35-4[Blank,IS,EM08,IE]-[Blank,RM]	Standard	40	5,400	135	15	0.90	3500	80	100 - 277Vac
PM7DT17D	LLSN40-40-4[Blank,IS,EM08,IE]-[Blank,RM]	Standard	40	5,440	136	15	0.90	4000	80	100 - 277Vac
PP581J5C	LLSN40-50-4[Blank,IS,EM08,IE]-[Blank,RM]	Standard	40	5,520	138	15	0.90	5000	80	100 - 277Vac
<b>LLSN40   8FT</b>										
PLIYQK8C4FHY	LLSN40-41-8	Premium	37	5,076	139	12	0.95	4000	85	100 - 277Vac
PLO5HFVHW33V	LLSN40-50-8	Premium	37	5,155	141	11	0.91	5000	85	100 - 277Vac
PQANGYO5	LLSN40-30-8[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	40	5,280	132	15	0.90	3000	80	100 - 277Vac
PRRVIYN0	LLSN40-30-8[Blank,IS,EM08,IE]-[Blank,RM]	Standard	40	5,280	132	15	0.90	3000	80	100 - 277Vac
PVIA6CQ5	LLSN40-35-8[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	40	5,280	132	15	0.90	3500	80	100 - 277Vac
POVJDSGA	LLSN40-35-8[Blank,IS,EM08,IE]-[Blank,RM]	Standard	40	5,280	132	15	0.90	3500	80	100 - 277Vac
PAKKGHBE	LLSN40-40-8[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	40	5,360	134	15	0.90	4000	80	100 - 277Vac
PSA2ML4Q	LLSN40-40-8[Blank,IS,EM08,IE]-[Blank,RM]	Standard	40	5,320	133	15	0.90	4000	80	100 - 277Vac
PCDIV56D	LLSN40-50-8[Blank,IS,EM08,IE]-[Blank,RM,WG]	Standard	40	5,400	135	15	0.90	5000	80	100 - 277Vac
PUYX8KHN	LLSN40-50-8[Blank,IS,EM08,IE]-[Blank,RM]	Standard	40	5,320	133	15	0.90	5000	80	100 - 277Vac

**DLC MODEL GUIDE (Continued)**

Product ID	Model No.	DLC	Watt	Lumen	Efficacy	THD	PF	CCT	CRI	Voltage
<b>LLSN64   8FT</b>										
PL3MY71UX4EC	LLSN64-41-8	Premium	64	8,126	127	14	0.92	4000	86	100 - 277Vac
PL2ZU7OZYUOM	LLSN64-50-8	Premium	64	8,228	128	14	0.92	5000	85	100 - 277Vac
PE39M7LE	LLSN64-30-8[Blank,IS,EM08,IE]-[Blank,RM]	Standard	64	8,640	135	15	0.90	3000	80	100 - 277Vac
P6HEKNFG	LLSN64-35-8[Blank,IS,EM08,IE]-[Blank,RM]	Standard	64	8,640	135	15	0.90	3500	80	100 - 277Vac
PUM2HMQ5	LLSN64-40-8[Blank,IS,EM08,IE]-[Blank,RM]	Standard	64	8,704	136	15	0.90	4000	80	100 - 277Vac
PZVKL6WB	LLSN64-50-8[Blank,IS,EM08,IE]-[Blank,RM]	Standard	64	8,832	138	15	0.90	5000	80	100 - 277Vac

 Link: [https://www.designlights.org/search/?search=LLSN\\*](https://www.designlights.org/search/?search=LLSN*)
**\* Note:**
**Dimming Status:** Continuous Dimming to 10% or below

**Wired Communication Protocol:** 0-10V

**Integral Controls:** Has Integral Controls

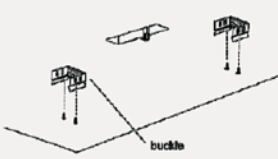
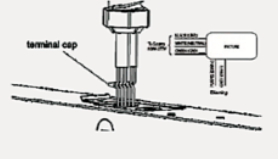
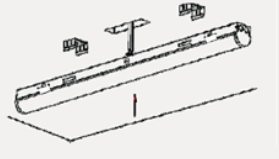

**Sensor Type:** Occupancy Sensor

## INSTALLATION GUIDE



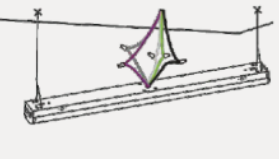

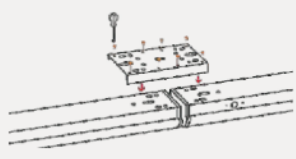
### PLEASE READ ALL INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION

- Please read the product specification carefully first to confirm that the working environment is in line with the condition on the specification before it is used.
- Please confirm the input voltage and frequency before use.
- The light must be installed by professional personnel
- If the power cord and case of the products are damaged, it will be regarded as disqualified product and should not be used.
- If external soft cable or wire of the product is damaged, the wire should be replaced by manufacturer or service agent or personnel with similar qualification to avoid danger.
- This luminaire is designed to operate in ambient temperatures ranging from -10°F to 125°F and to be horizontally mounted facing down.
- This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.
- This product is not available for several special environments, such as places with corrosive gas liquids or high pressure water vapor.
- CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR
- CAUTION - RISK OF FIRE

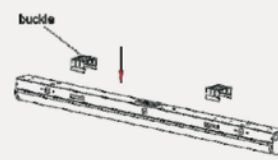
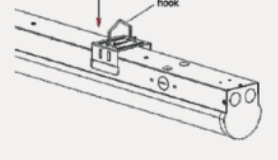
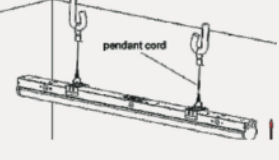
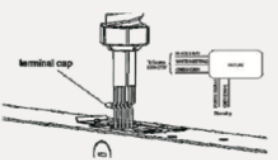
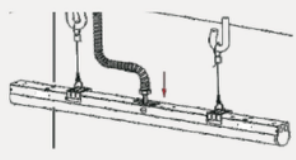
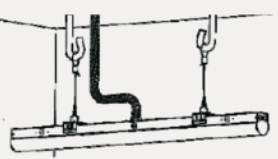
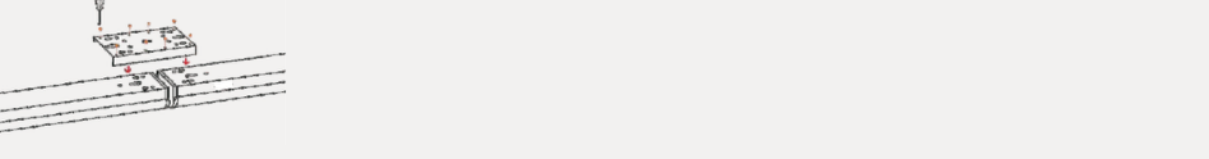
### SURFACE MOUNT

 <p>1. Fix the buckles in parallel by screws with 27" distance between each buckle.</p>	 <p>2. Take wires from the terminal caps, connect AC wires and 0-10V low-voltage wires (if required).</p>	 <p>3. Secure the strip fixture with buckles.</p>	 <p>4. Installation is complete.</p>
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### SUSPENSION MOUNT (Method 1)

 <p>1. Insert a set of chains on each S-hook into the installation holes.</p>	 <p>2. Attach the chains to the ceiling and adjust until balanced and secured.</p>	 <p>3. Take the wires from the shielded cables, connect AC wires and 0-10V wires.</p>	 <p>4. Wrap the wires with metal materials.</p>	 <p>5. Optional seamless infinite splicing shown.</p>
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### SUSPENSION MOUNT (Method 2)

 <p>1. Snap buckles into the fixture.</p>	 <p>2. Attach the hooks into the knockouts.</p>	 <p>3. Loop buckles with pendant cord and suspend the fixture to the desired height.</p>	 <p>4. Take the wires from the terminal caps, connect AC wires and 0-10V dimming wires (if needed).</p>	 <p>5. Insert the terminal blocks and wires into the fixture.</p>
 <p>6. Insert the wire terminal joints to the wire entry.</p>	 <p>7. Optional seamless infinite splicing shown.</p>			

## WARRANTY

 7 Year 75,000-Hours

The lesser of 7-Years after shipment by Seller, or 75,000-Hours of use.

ARCHIPELAGO will not under any circumstances whether as a result of breach of contract, breach of warranty, tort, strict liability or otherwise be liable for consequential, incidental, special or exemplary damages including but not limited to, loss of pro its or revenues, loss of use of the above product or any other goods or associated equipment or damage to any associated equipment, cost of capital, cost of substituted products, facilities of services, downtime cost, or claims of claimant's customers. ARCHIPELAGO's liability on any claim of any kind for any loss or damages arising out of, resulting from or concerning any aspect of this agreement of from the product or services furnished hereunder shall not exceed the price of the specific product or products listed above which gives rise to the claim. This warranty gives the claimant specific legal rights. The claimant may also have other rights, which vary from state to state.

For a complete documentation of ARCHIPELAGO Lighting, Inc. warranty and limitation of liability, please refer to [www.archipelagolighting.com](http://www.archipelagolighting.com).

## CERTIFICATIONS



## QUESTIONS?

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## ARCHIPELAGO LIGHTING

Archipelago Lighting, Inc. is a leading prime manufacturer of commercial and residential lighting products in USA and China. We are a team of passionate lighting professionals whose goal is to improve life through disruptive LED lighting products. We manufacturer a wide variety of products to support the growing adoption of energy efficient LED.

