



COMMERCIALPRO SERIES

plano[Ⓐ]RCH

LPVT

A2-Series

SELECTABLE
LED VOLUMETRIC TROFFER
2x2 | 2x4

COMMERCIAL GRADE

PRODUCT OVERVIEW

The plano[Ⓐ]RCH LPVT-Series center-basket troffer features modern architectural grade design and integrated switches to easily select between 4-wattage and 4-CCT settings.

Featuring seamless light distribution that is superior to competing stamped metal troffer and light and strong polycarbonate structure, the LPVT-Series replaces all your office area lighting needs.




PROJECT DETAILS

Project Name	
Fixture Schedule	
Product Number	
Notes	

KEY FEATURES

- ALL-IN-ONE LIGHTING SOLUTION FOR CENTER BASKET TROFFER
- SELECTABLE WATTAGE AND CCT THROUGH DRIVER-BASED DIP-SWITCHES
- LIGHT-BODY COMPOSITE MATERIAL: ANTI-FLAMMABLE AND DEFORMATION-FREE
- EASY INSTALLATION W/ LAY-IN READY AND BUILT-IN SEISMIC HOOKS
- MICROCHIP PROGRAMED LIGHT-ENGINE FOR CONSISTENT CCT
- HIGH-DENSITY LED CHIPS FOR UNIFORM LIGHT OUTPUT
- 7-YEAR, 75,000HR WARRANTY
- UL DAMP LOCATION LISTED
- DLC PREMIUM LISTED

MODEL SPECIFICATIONS

Model	Selectable Watt	Selectable CCT	Voltage	LPW
LPVT22	20W / 25W / 30W / 35W /	3000K / 3500K / 4000K / 5000K /	120-347V	130LM/W
LPVT24	35W / 40W / 45W / 50W /	3000K / 3500K / 4000K / 5000K /	120-347V	130LM/W

KEY SPECIFICATIONS

- **LED Chip:** Samsung 2835, LM80, IP-Protected
- **Housing:** Durable Synthetic Composite
- **Operating Temp:** -15°F — 150°F
- **IP:** IP40 Indoor Damp Location
- **Input Voltage:** 120-347V
- **PF:** >0.9 Non-Flicker
- **Efficacy:** 130LM/W
- **Dimming:** 0-10V
- **THD:** <15%
- **CRI:** >80

APPLICATIONS


Office Space



Schools



Hospitalities



Commercial Buildings

CERTIFICATIONS

ORDERING GUIDE

Model Series	Size	CCT (K)	Option Code
LPVT LED Volumetric Troffer	22 2x2	xx:	A2 0-10V Dimmable Selectable Wattage & CCT Troffer * MS Selectable (-A2) + Occupancy Sensor ** EM Selectable (-A2) + Emergency Driver ** ES Selectable (-A2) + Occupancy Sensor + Emergency Driver **
	24 2x4	30 3000K 35 3500K 40 4000K 50 5000K	

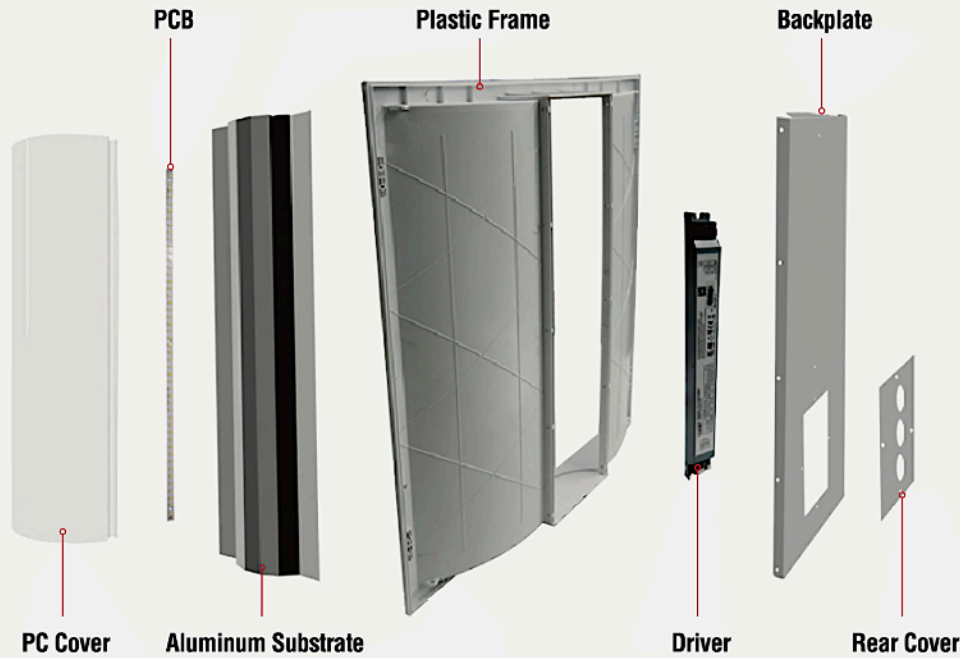
* Standard option

** Integral Controls & Emergency Drivers

Choose Your Model Specifications Above:

LPVT	24	xx	A2
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Example Ordering Number:
LPVT24-xx-A2

PHYSICAL FEATURES


Flame Retardant
 Adheres to National Fire Protection Association Class B rated, in accordance to NFPA 255, "Method of Test of Surface Burning Characteristics of Building Materials".

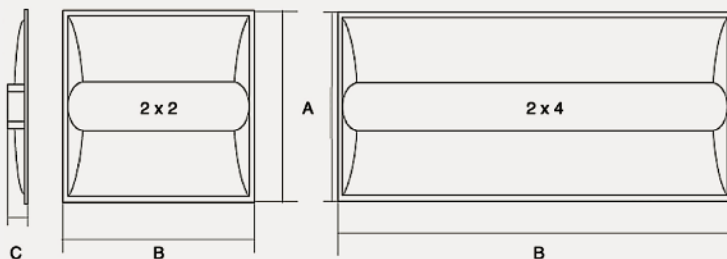
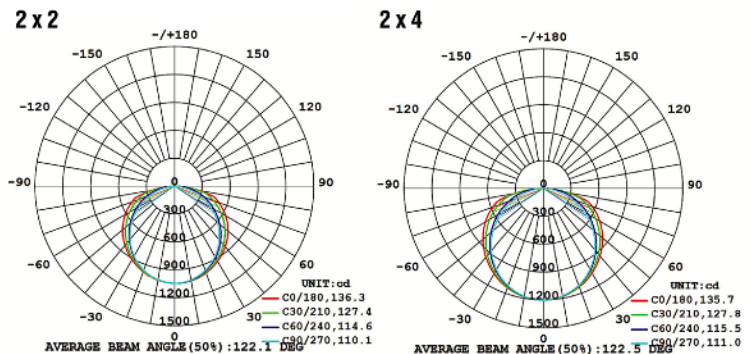

Deformation Resistant

Made with high-performance synthetic materia, the LPVT-troffer is designed to withstand 175lb of pressure without demonstrating permanent compressions. Even when deformed due to spot pressure, the fixture resumes shape once pressure is released.

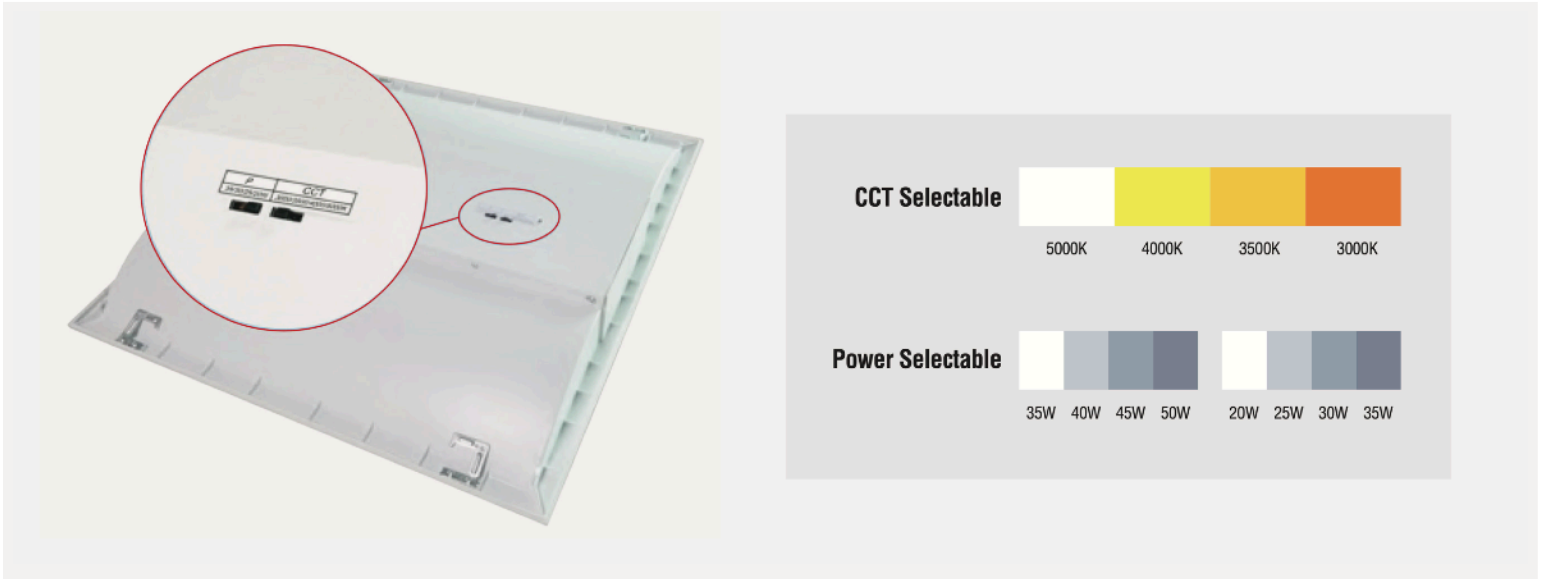
Power & CCT Controller
 Built-in driver-based microprocessor is programmed to deliver consistent power output and precise color temperature.


SIZING & MEASUREMENTS

Model Series	Width (in)	Height (in)	Depth (in)	Weight (lb)
LPVT22	3	24	24	5.1
LPVT24	3	24	48	8.6


PHOTOMETRICS


POWER & CCT CONTROL

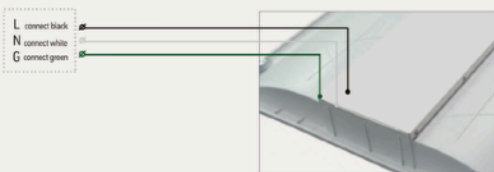


PHYSICAL FEATURES

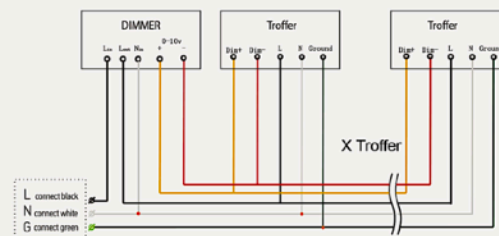
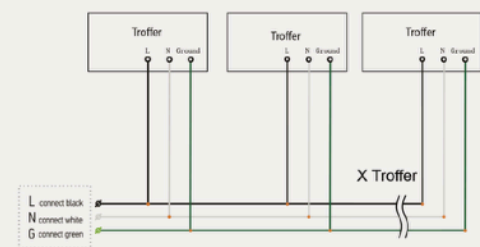
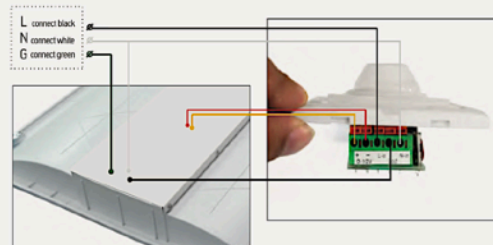
Selectable Wattage + CCT	<ul style="list-style-type: none"> Built-in driver-based microprocessor is programmed to deliver consistent power output and precise color temperature. This level of precision allows us to provide project-based custom CCT panels.
Efficient Heat Dissipation	<ul style="list-style-type: none"> SMD chip printing is engineered for optimum passive heat dissipation to provide longer lifespan and ensure minimum light decay.
Intelligent Driver	<ul style="list-style-type: none"> Uniquely intelligent and reliable, the driver is engineered from the ground up to provide integrated safety features such as short-circuit overload protection, low-voltage prevention, non-stroboscopic, and high efficiency electrical conversion (PF>0.9). It is completely insulated from the structure of the panel to ensure isolated thermal effects from prolonged use.

WIRING INSTRUCTIONS

Wire Connection

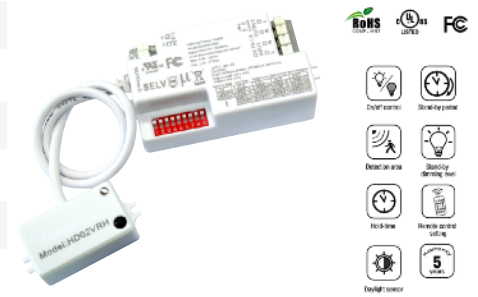


Wiring of Troffer With 0-10V Dimmable Driver

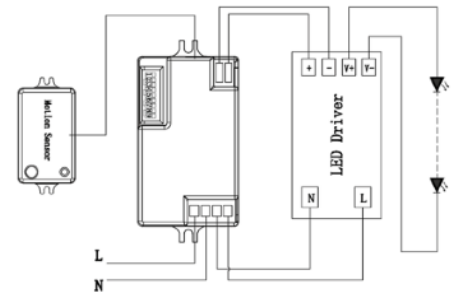


CONFIGURABLE MICROWAVE OCCUPANCY SENSOR

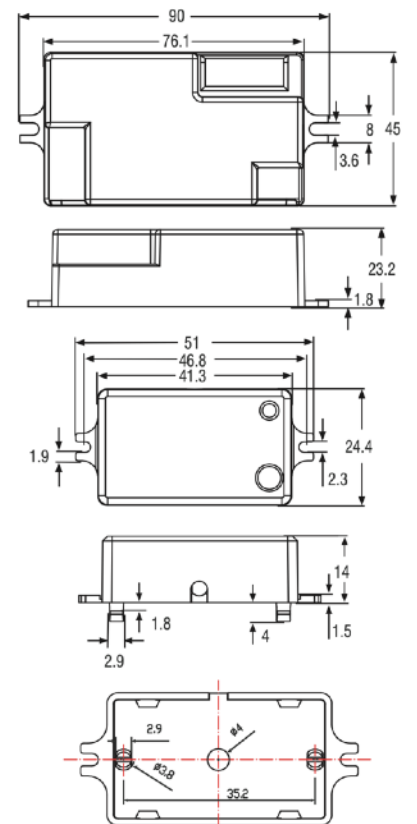
Model No.	plano-OS
Product ID	HD407V-CR
Operating Voltage	120-277Vac, 50/60Hz
Switching Capacity	Max: 200W (Control Gear) Max: 400W (Incandescent)
Standby Power	<1W
Detection Area	50% 100%
Hold Time	5s 30s 1min 10min
Daylight Threshold	2-Lux 10-Lux 50-Lux Disable
Standby Period	0s 30S 20min ∞
Standby Dimming Level	10% 20% 30% 50%
Microwave Frequency	5.8GHz +/- 75MHZ
Microbe Power	<0.3mW
Interfaces	6-Pole Pluggable Clamp Terminal (L, N, N, L', 1-10V+, 1-10V-) for 0.75-1.5mm ²
Mounting Height	Max: 20FT (Ceiling Mounted)
Detection Range	Max: 46 x 20FT (Ceiling Mounted) Max: 33FT (Wall Mounted)
Operating Temp	-4°F — 130°F
IP Rating	IP20



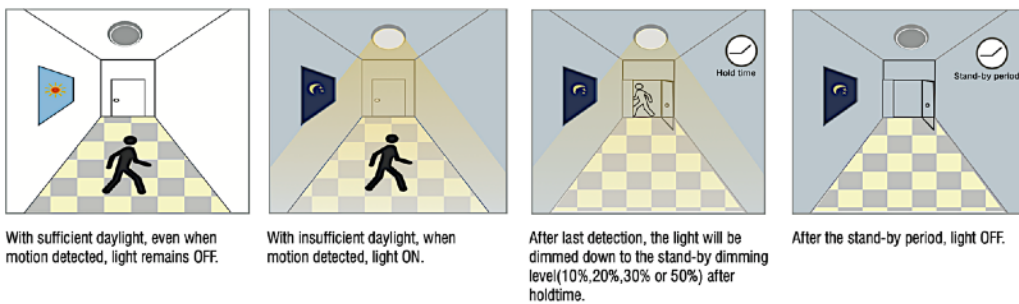
WIRING DIAGRAM



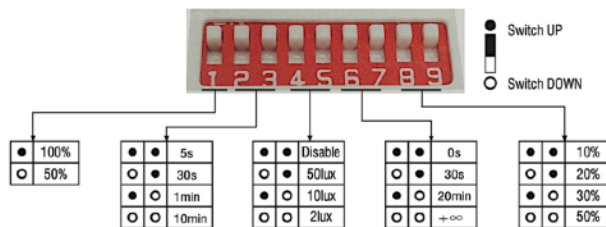
SIZE & MEASUREMENTS



FUNCTION & APPLICATIONS



SETTINGS



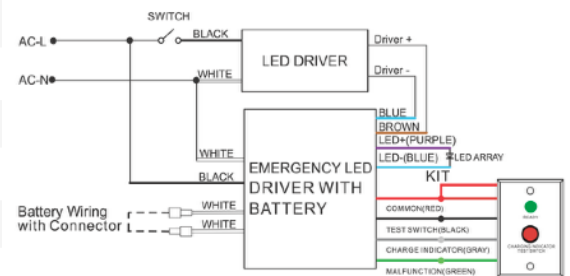
<p>Detection Area</p> <p>Detection area means detection coverage. Adjustment may be done by combining dip-switches.</p>	<p>Hold Time</p> <p>Hold-time is the period of time the light will remain ON upon last detected motion.</p>	<p>Daylight Threshold</p> <p>Daylight sensor prior to motion detection. Set threshold for specific needs. If Disabled, only the motion sensor works.</p>	<p>Standby Period</p> <p>This is the time period the light will remain dimmed upon last detected motion.</p>	<p>Standby Dimming Level</p> <p>This is the dimming level the fixture remains on during standby period.</p>
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EMERGENCY BACKUP DRIVER

Model No.	plano-EMBKUP
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	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



- DO NOT MATE CONNECTORS UNTIL INSTALLATION IS COMPLETED AND AC POWER IS SUPPLIED.
- 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.

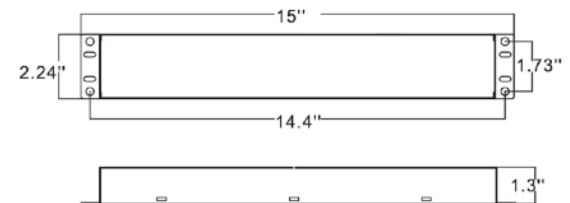
APPLICATIONS

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.

Manifunction 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 plano-EMBKUP 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
LPVT22 2 x 2										
PK0FXMZ6*	LPVT22-20W-[MS,EM,ES,RC,A2]	Premium	20	2500	125	15	0.9	3000	80	120 - 347Vac
P9FDS4DH*	LPVT22-25W-[MS,EM,ES,RC,A2]	Premium	25	3125	125	15	0.9	3000	80	120 - 347Vac
PL8TVPO0*	LPVT22-30W-[MS,EM,ES,RC,A2]	Premium	30	3750	125	15	0.9	3000	80	120 - 347Vac
PTNVEM3N*	LPVT22-35W-[MS,EM,ES,RC,A2]	Premium	35	4375	125	15	0.9	3000	80	120 - 347Vac
PLF2LHVK2IV7	LPVT22-35-40	Premium	35	4725	135	15	0.9	4000	80	120 - 347Vac
LPVT24 2 x 4										
P3T3GSKO*	LPVT24-35W-[MS,EM,ES,RC,A2]	Premium	35	4375	125	15	0.9	3000	80	120 - 347Vac
PW5TYOVX*	LPVT24-40W-[MS,EM,ES,RC,A2]	Premium	40	5000	125	15	0.9	3000	80	120 - 347Vac
PNYA7Q2V*	LPVT24-45W-[MS,EM,ES,RC,A2]	Premium	45	5625	125	15	0.9	3000	80	120 - 347Vac
PIJ9LQDS*	LPVT24-50W-[MS,EM,ES,RC,A2]	Premium	50	6250	125	15	0.9	3000	80	120 - 347Vac
PLAM70U9OTY7	LPVT24-50-40	Premium	50	6450	129	15	0.9	4000	80	120 - 347Vac

 Link: https://www.designlights.org/search/?search=LPVT*
*** Note:**

Dimming Status: Continuous Dimming to 10% or below
Integral Controls: Has Integral Controls
Color-Tunable: White
Field-Adjustable: Light Output

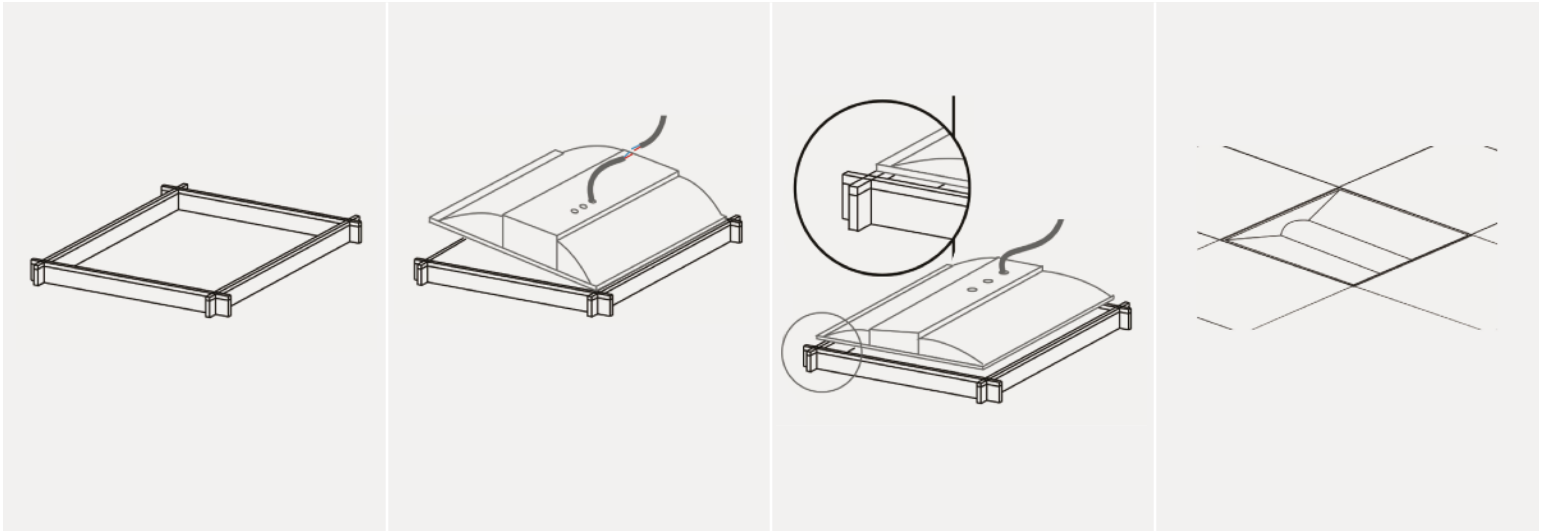
INSTALLATION GUIDE

▲ 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

▲ INSTALLATION REQUIREMENTS

1. Remove the ceiling plaster slabs.
2. Connect the power supply.
3. Fix the troffer into the appropriate space.
4. Stabilize the troffer.



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 profits 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 or 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.

CERTIFICATIONS



QUESTIONS?

ARCHIPELAGO LIGHTING, Inc.

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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.

