

# LUNERA VERTICAL E26 LED FLOODLIGHT

LED Replacement for E26 Medium Base Floodlights

Type B – Ballast Bypassed

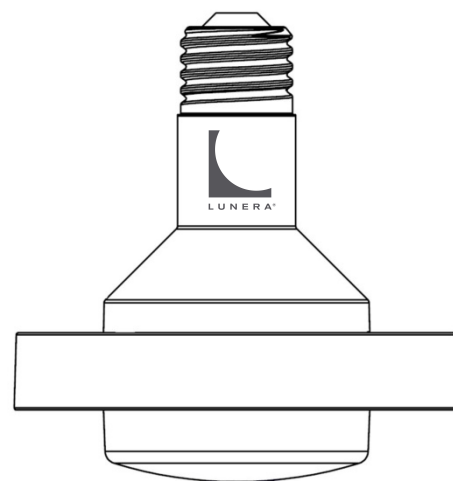
## Installation Description

The **LUNERA VERTICAL E26 LED FLOODLIGHT** is a line driven (Type B, ballast bypassed) LED replacement for self-ballasted CFL, Metal Halide/Halogen PAR, Halogen BR, and Metal Halide lamps with an E26 medium base. It is an energy saving lamp floodlight replacement for general ambient lighting in recessed downlights. The lamp is available in 3 lumen outputs (1,200lm, 2,300lm, and 3,500lm) and 4 color temperatures (2700K, 3000K, 3500K, and 4000K CCT).

This lamp has a built-in driver that allows operation at 120V ~ 277V. It is NOT compatible with ballasts or LED drivers and the fixture socket must be wired to AC line voltage.

The lamp is intended for open or lensed recessed downlights with a single E26 socket in a vertical mounted orientation.

Always turn OFF power to the fixture before removing existing lamps, bypassing the ballast, inspecting the socket, and installing this lamp.



E26 medium base

## Product SKUs

Verify the product SKU before installing the lamp. Product SKUs on the lamp must match one of the following SKUs.

Product SKU	Max Lumens	Avg. Lamp Power	Base Type
HN-PLV-E26-L-10W-8yy	1,200lm	10W	E26 Medium
HN-PLV-E26-L-20W-8yy	2,300lm	20W	E26 Medium
<b>HN-PLV-E26-L-30W-8yy</b>	<b>3,500lm</b>	<b>30W</b>	<b>E26 Medium</b>

yy=CCT: 27=2700K; 30=3000K; 35=3500K; 40=4000K

## Fixture Compatibility

This lamp fits in fixtures that have a single E26 medium socket that orients the lamp in a vertical (downward) facing position.

The fixture aperture must have a 6 inches or greater internal diameter and the fixture's lamp compartment must be at least 4 inches in depth. Check that the intended fixture depth is sufficient to contain the lamp.

In very deep fixtures, note that the lamp will seat higher up, which may reduce lumens and beam spread. However, an off-the-shelf E26-to-E26 socket extender may be used to lower the lamp approximately 1.25 inches in the fixture.

The fixture may be open or lensed (sealed).



## Installation Instructions

Before beginning installation, verify that the LUNERA VERTICAL E26 FLOODLIGHT is an appropriate LED lamp replacement for your fixture. This is a line driven (ballast bypassed) LED replacement for the following types of floodlights:



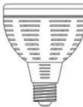
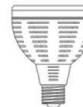


### Lamp Application Compatibility

The LUNERA VERTICAL E26 FLOODLIGHT is intended as a Flood and Wide Floodlight replacement lamp.

Lamp Type	Beam Angle	Lunera Compatibility
Very Narrow Spot	<15 Degrees	No
Narrow Spot	15 – 30 Degrees	No
Spot	30 – 60 Degrees	No
Narrow Flood	60 – 90 Degrees	No
<b>Flood</b>	<b>90 – 120 Degrees</b>	<b>Yes</b>
<b>Wide Flood</b>	<b>120 – 160 Degrees</b>	<b>Yes</b>
Very Wide Flood	>160 Degrees	No

### Lamp Replacement Compatibility

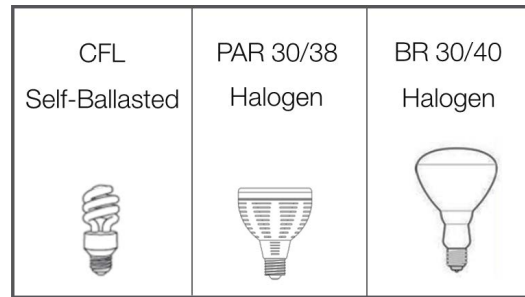
The LUNERA VERTICAL E26 FLOODLIGHT is intended to replace the following types floodlight lamps:

Lunera E26 LED Floodlight	Replaces E26 Base Lamps with Wattages / Delivered Lumen (up to)				
LED Type B (Line Driven)	CFL Self-Ballasted	PAR 20/30 Metal Halide	PAR 30/38 Halogen	BR 30/40 Halogen	HID Metal Halide
					
<b>10W</b> <b>1,200lm</b>	32W 1,000lm	20W 1,000lm	60W 1,000lm	60W 1,000lm	—
<b>20W</b> <b>2,300lm</b>	65W 2,000lm	39W 2,100lm	90W 1,800lm	—	—
<b>30W</b> <b>3,500lm</b>	105W 3,000lm	39W 2,400lm	—	—	70W 2,500lm

## Installation Instructions -- Line Driven Plug-and-Play

The lamps shown to the right are line driven lamps, therefore the recessed fixture should not require a ballast bypass.

If you are replacing one of these lamp types, follow the Line Driven Plug-and-Play instructions below.



### Prepare the Fixture for Retrofit

1. Turn power OFF to the fixture.
2. Remove the existing lamp, allowing sufficient time for the lamp to first cool. Verify that it is one of the types shown above.
3. Inspect the fixture to verify that it is line driven and that there is no ballast or the ballast has been bypassed already.  
>> STOP if there is a connected ballast and proceed the Installation Instructions for Line Driven Ballast Bypassed <<
4. Measure the fixture aperture and lamp compartment to ensure there is sufficient clearance for the lamp once installed.
5. Inspect the socket to ensure it is in good working order, free of rust, corrosion, or wear.

### Complete the Retrofit

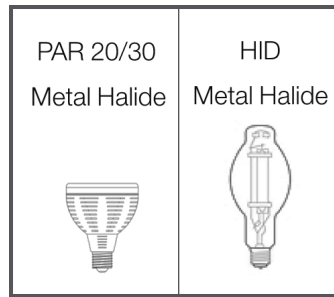
6. Install the LUNERA CFL LED E26 VERTICAL lamp. If the lamp is too high in the fixture, you can use an off-the-shelf E26-to-E26 socket extender to drop the lamp apx. 1.25 inches down.
7. Turn power ON to the fixture.

**UPON COMPLETION OF THE RETROFIT, IF THE LAMP OR LUMINAIRE EXHIBITS UNDESIRABLE OPERATION (BUZZING, FLICKERING, STROBING, ETC.), IMMEDIATELY TURN OFF POWER, REMOVE LAMP FROM LUMINAIRE. CONTACT LUNERA FOR TECHNICAL SUPPORT.**

## Installation Instructions -- Line Driven Ballast Bypass

The lamps shown to the right are ballast driven lamps, therefore the recessed fixture will require a ballast bypass re-wiring.

If you are replacing one of these lamp types, follow the Line Driven Ballast Bypass instructions below.

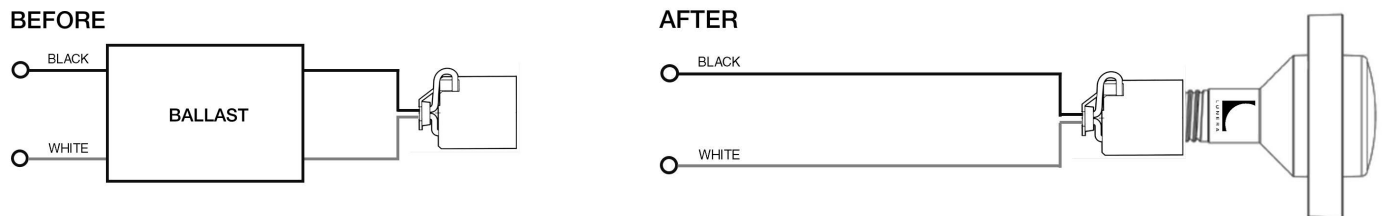


### Prepare the Fixture for Retrofit

1. Turn power OFF to the fixture.
2. Remove the existing lamp, allowing sufficient time for the lamp to first cool. Verify that it is one of the types shown above.
3. Measure the fixture aperture and lamp compartment to ensure there is sufficient clearance for the lamp once installed.
4. Inspect the socket to ensure it is in good working order, free of rust, corrosion, or wear.
5. Remove the fixture trim/reflector from the fixture housing.

### Modify the Fixture for Line Driven Lamps

6. Remove the inner junction box cover and disconnect the ballast from input wiring and lampholder leads.
7. Dispose of the removed ballast and lamps in accordance with local government regulations.
8. Connect input wiring to the lampholder leads according to the diagrams below:



9. Place wires and connection back into the wiring box and replace the inner junction box cover.
10. Reinstall the trim/reflector in the fixture housing.
11. Apply the included re-lamping label on a visible location inside the fixture.



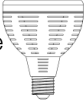



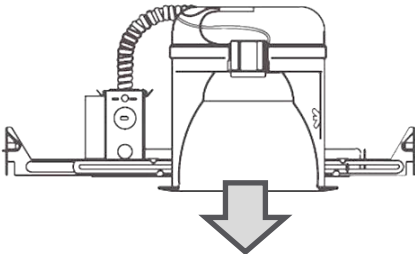




### Complete the Retrofit

12. Install the LUNERA CFL LED E26 VERTICAL lamp. If the lamp is too high in the fixture, you can use an off-the-shelf E26-to-E26 socket extender to drop the lamp apx. 1.25 inches down.
13. Turn power ON to the fixture.

**UPON COMPLETION OF THE RETROFIT, IF THE LAMP OR LUMINAIRE EXHIBITS UNDESIRABLE OPERATION (BUZZING, FLICKERING, STROBING, ETC.), IMMEDIATELY TURN OFF POWER, REMOVE LAMP FROM LUMINAIRE. CONTACT LUNERA FOR TECHNICAL SUPPORT.**

## COMPATIBLE Applications

The LUNERA VERTICAL E26 FLOODLIGHT is designed for common commercial fixtures with a single E26 medium socket on various types of flood lamps that meet the following characteristics.

Lamps Types Replaced	Socket	Mounting	Fixture Types
Self-Ballasted CFL up to 105W  Metal Halide Up to 70W  PAR 20/30 Metal Halide Up to 39W  BR 30 Halogen Up to 60W  PAR 30/38 Halogen Up to 90W 	E26 Medium Screw 	Vertical 	Recessed Downlights Non-lensed or Lensed  
Power Sources		Controls	
120V ~ 277V AC Direct Line Voltage 		Non-dimming (rocker) switch 	

## INCOMPATIBLE Applications

Applications with the following characteristics are INCOMPATIBLE with the LUNERA VERTICAL E26 FLOODLIGHT. Installation of this lamp in such applications may result in lamp failure or fixture malfunction. Product Warranty will be voided if the lamp is installed into the following applications.

Lamps Types Replaced	Socket	Mounting	Controls	Power Sources
<ul style="list-style-type: none"> <li>Any other lamp type except those identified as compatible.</li> <li>Any compatible lamp that operates outside of the specified wattage.</li> </ul>	<ul style="list-style-type: none"> <li>Any other lamp socket other than an E26 medium socket.</li> </ul>	<ul style="list-style-type: none"> <li>Horizontal (final lens orientation after accessory installation)</li> </ul>	<ul style="list-style-type: none"> <li>Dimming controls</li> </ul>	<ul style="list-style-type: none"> <li>Ballasts</li> <li>LED Drivers</li> <li>AC Line Voltage &lt;108V or &gt;305V</li> </ul>

## General Safety Information

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

**DANGER** – RISK OF FIRE OR ELECTRIC SHOCK. LED RETROFIT KIT INSTALLATION REQUIRES KNOWLEDGE OF LUMINAIRES ELECTRICAL SYSTEM. IF NOT QUALIFIED, DO NOT ATTEMPT INSTALLATION. CONTACT A QUALIFIED ELECTRICIAN.

RISQUE D'INCENDIE OU D'ÉLECTROCUTION. L'INSTALLATION DE CE KIT DE CONVERSION NÉCESSITE LA CONNAISSANCE DU SYSTÈME ÉLECTRIQUE DU LUMINAIRE. SI NON QUALIFIÉ, NE PAS ESSAYER D'INSTALLER ET CONTACTER UN ÉLECTRICIEN QUALIFIÉ.

**DANGER** – RISK OF FIRE OR ELECTRIC SHOCK. INSTALL THIS KIT ONLY IN LUMINAIRES THAT HAVE THE CONSTRUCTION FEATURES AND DIMENSIONS SHOWN IN PRODUCT SPECIFICATION SHEET AND/OR DRAWINGS AND WHERE THE INPUT RATING OF THE LAMP DOES NOT EXCEED THE INPUT RATING OF THE LUMINAIRE.

RISQUE D'INCENDIE OU D'ÉLECTROCUTION. N'INSTALLER CE KIT QUE DANS DES LUMINAIRES AYANT LA CONSTRUCTION ET LES DIMENSIONS INDIQUÉES DANS LA FICHE TECHNIQUE ET SI LES VALEURS DE COURANT ET PUISSANCE À L'ENTRÉE DU KIT N'EXCÈDENT PAS CELLES DU LUMINAIRE.

**WARNING** – DO NOT MAKE OR ALTER ANY OPEN HOLES IN AN ENCLOSURE OF WIRING OR ELECTRICAL COMPONENTS DURING KIT INSTALLATION.

NE PAS PERCER OU MODIFIER DE TROU EXISTANTS DANS UN COMPARTIMENT CONTENANT DES FILS OU DES COMPOSANTS ÉLECTRIQUES DURANT L'INSTALLATION DU KIT.

**WARNING** – THIS LAMP IS NOT INTENDED FOR USE WITH ANY BALLAST OR EXTERNAL LED DRIVER. LAMP INSTALLATION WITH EXTERNAL DRIVER OR HID BALLAST VOIDS THE PRODUCT WARRANTY.

CETTE LAMPE N'EST PAS CONÇUE POUR ÊTRE UTILISÉE AVEC UN BALLAST LED OU BALLAST POUR LAMPES À DÉCHARGE. L'INSTALLATION DE CETTE LAMPE AVEC UN BALLAST LED OU UN BALLAST POUR LAMPES À DÉCHARGE ANNULE LA GARANTIE DU PRODUIT.

**WARNING** – IF THE LAMP OR LUMINAIRE EXHIBITS UNDESIRABLE OPERATION (BUZZING, FLICKERING, ETC) IMMEDIATELY TURN OFF POWER, REMOVE LAMP FROM LUMINAIRE AND CONTACT MANUFACTURER.

SI LA LAMPE OU LUMINAIRE MONTRE DES SIGNES D'OPERATION INDESIRABLES (BRUIT, VIBRATION, CLIGNOTEMENT, ETC) COUPER LE COURANT IMMEDIATEMENT, ENLEVER LA LAMPE DU LUMINAIRE ET CONTACTER LE FABRIQUANT.

**WARNING** – TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR OTHER SHARP OBJECTS.

POUR ÉVITER L'ENDOMMAGEMENT OU L'ABRASION DES FILS, NE PAS EXPOSER LES FILS AUX BORDS DES PIÈCES DE TÔLERIE OU AUTRES PIÈCES TRANCHANTES.

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### General Safety Information, continued

**CAUTION** – DO NOT INSTALL THIS LAMP TO LINE VOLTAGE ABOVE 277VAC. THIS LAMP SUPPORTS 120VAC-277VAC VOLTAGE RANGE. DO NOT INSTALL THIS LAMP WITH DIMMERS. LAMP INSTALLATION WITH LINE VOLTAGE ABOVE 277V VOIDS THE WARRANTY.

NE PAS INSTALLER CETTE LAMPE SUR UNE TENSION DE SECTEUR SUPÉRIEURE À 277VAC. CETTE LAMPE EST CONÇUE POUR UNE GAMME DE TENSION ENTRE 120VAC ET 277VAC. NE PAS BRANCHER CETTE LAMPE SUR UN ATTÉNUATEUR.

**CAUTION** – LAMP INSTALLATION WITH LINE VOLTAGE ABOVE 277V VOIDS THE WARRANTY.

L'INSTALLATION DE CETTE LAMPE SUR UNE TENSION DE SECTEUR SUPÉRIEURE À 277V ANNULE LA GARANTIE.

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### NOTES

\* This lamp complies with FCC Parts 15A/B. Operation is subject to the following conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operations.