

**Light-Emitting Diode Retrofit Luminaire Conversion Kit**  
**INSTALLATION INSTRUCTIONS**  
**Standard and High Output**  
**(DEP) Dual End Powered**  
With patented double protection safety switches



The Viribright **Light-Emitting Diode Retrofit Luminaire Conversion Kit (LED RLC)** requires the removal of ballast, direct connection of lamp holders to line voltage, and use of Viribright's self-ballasted LED tubular lamp.

UL 1598, the Standard for Luminaires, UL 1598B, the Standard for the Supplemental Requirements for Luminaire Reflector Kits for Installation on Previously Installed Fluorescent Luminaires.

CSA C22.2 No. 250.0, the Standard for Luminaires and the CSA Technical Information Letter No. B-64, the Interim Certification Requirements for Retrofit Assemblies for Use in Fluorescent Luminaires.

The Viribright LED T8 comes with the proper warning label, marking that the fixture has had the ballast removed so that electricians and maintenance workers know in advance the fixture has been modified.



**ATTENTION:** The Dual end powered models incorporate a double safety switch system. This system may not work with all Tombstones (Lampholders) More information can be found regarding the lamp holder and safety switch compatibility in additional documentation.

Applicable Models			
Standard Brightness		High Output	
PART#	MODEL#	PART#	MODEL#
#73437	T8-060SW	#73334	T8-060SWH
#73438	T8-060SW	#73335	T8-060SWH
#73436	T8-060SW	#73336	T8-060SWH
#73443	T8-120SW	#73340	T8-120SWH
#73444	T8-120SW	#73341	T8-120SWH
#73442	T8-120SW	#73342	T8-120SWH

**WARNING**

This UL Listed bulb is dual end powered with safety switches on both ends for your safety. The use of this bulb requires removal of the fluorescent ballast and requiring of the fixture to apply direct AC Common and AC Neutral to opposite ends of the LED T8 Tube. The safety switch must engage when the T8 is rotated into position. If this does not work please contact customer support. This procedure should be conducted by a licensed electrician and in accordance with local and National Electrical Codes.

**WARNING:** if the wiring is done properly and the lamp does not light flip the lamp in the



Certified under UL1598

LED lighting is a constantly evolving technology thus Viribright reserves the right to revise specifications

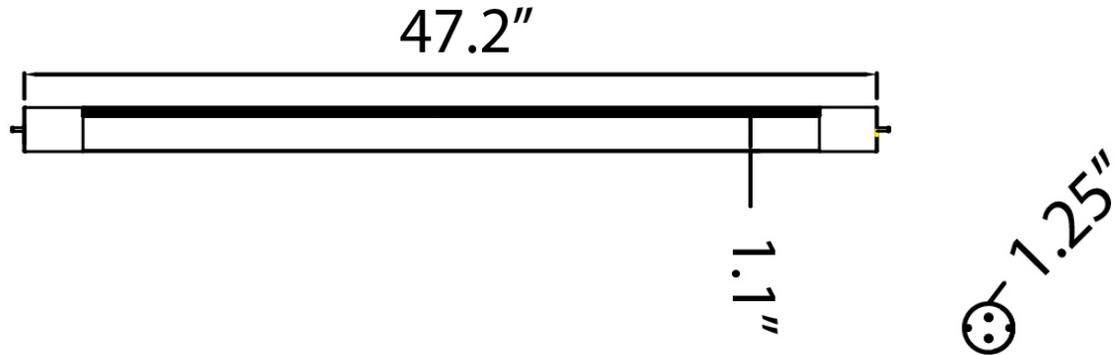
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(DEP) Dual End Powered**

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Dimensional Diagrams



**READ THESE INSTRUCTIONS COMPLETELY BEFORE ATTEMPTING THE INSTALLATION.**

SAVE THIS DOCUMENT FOR FUTURE REFERENCE.

**When you see this symbol stop and read the special note or instructions.**

Prior to the start of the retrofit disconnect power from the fixture and test to make sure that there are no compatibility issues between your tombstones and our Lamp end with safety switch. If you find a compatibility issue please contact your Viribright reseller or Viribright directly to order proper lamp holder replacements. Failure to follow this step may result in damage to the lampholder or the LED T8.



**ATTENTION**

THIS FIXTURE SHOULD BE INSTALLED ACCORDING TO YOUR LOCAL ELECTRICAL AND BUILDING CODES

THE USE OF CORROSIVE CHEMICALS OR SOLVENTS MAY DEGRADE THE HOUSING FINISH AND OR FINISH PROTECTION

THIS FIXTURE IS SUITABLE FOR:



Indoor "Dry Location" use only

**WARNING**

RISK OF FIRE! RISK OF ELECTRIC AND ELECTRICAL SHOCK!  
DISCONNECT FLUORESCENT FIXTURE FROM MAIN POWER SUPPLY PRIOR TO INSTALLAION  
ENSURE THE FIXTURE IS PROPERLY GROUNDED



## Light-Emitting Diode Retrofit Luminaire Conversion Kit INSTALLATION INSTRUCTIONS

“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.”

“WARNING - Risk of fire or electric shock. The electrical rating of these products are 85-285 VAC, the installer must determine whether they have 85-285V at the luminaire before installation.”

“WARNING - Risk of fire or electric shock. Reflector kit installation requires knowledge of fluorescent lighting luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.”

Maximum Number of Tubes for retrofit in a single fixture is:

Model	Maximum Number of Tubes
T8-060SW, T8-090SW, T8-120SW, T8-060SSP, T8-090SSP, T8-120SSP, T8-060SWH, T8-090SWH, T8-120SWH, T8-060SSPH, T8-090SSPH and T8-120SSPH	3
T8-150SW, T8-150SSP, T8-150SWH and T8-150SSPH	2

“Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.”

“WARNING – Risk of fire or electric shock. Install these kits only in the luminaires that has the construction features and dimensions shown in the photographs and/or drawings.”

“WARNING – To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.”

**USE ONLY WITH UL AND CUL LISTED RECESS-MOUNTED OR SURFACE-MOUNTED FLUORESCENT LUMINAIRES WITHOUT DIFFUSER.”**

Lamp Replacement - The lamp replacement part numbers   #  , and a method to order replacement lamps by phone, website and/or mail shall be indicated on the retrofit luminaire outer surface where readily visible by the user when re-lamping, where # represent the LED Tube Lamp Retrofit Kit Model.

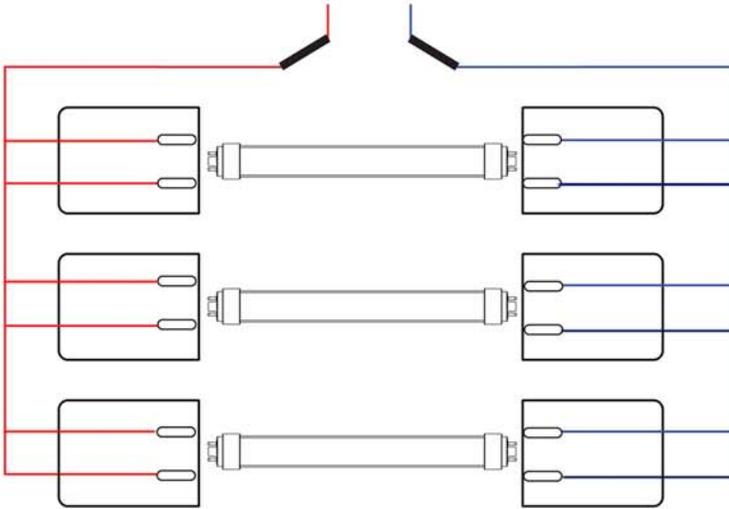
“This luminaire has been modified and can no longer operate the originally intended lamp.” shall be marked on the retrofit luminaire where readily visible by the user during normal maintenance including relamping.

These luminaire has been modified and no longer operate Fluorescent Lamps.  
Use only Viribright LED Tube lamps for lamp replacement.

For CNC products: “THE RETROFIT ASSEMBLY IS ACCEPTED AS A COMPONENT OF A FLUORESCENT LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY CSA OR AUTHORITIES HAVING JURISDICTION.”

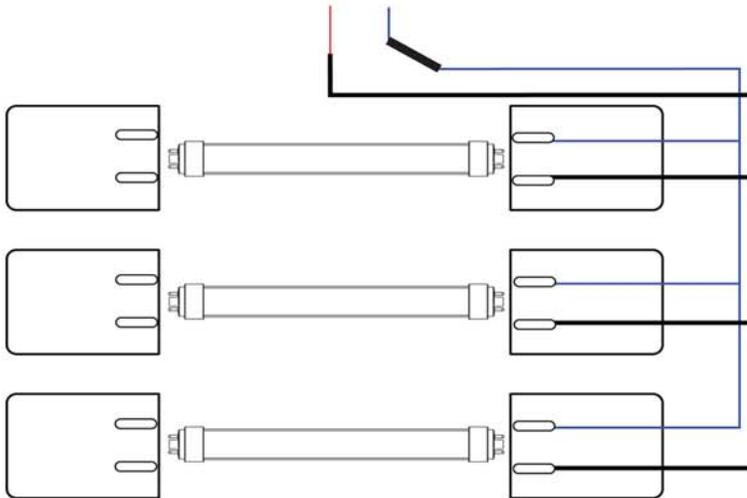
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**Wiring Diagrams**



Viribright Benchmark  
(DEP) Dual End Powered  
LED T8 Fixture Wiring

(Ballast Removed)



Viribright Benchmark  
(SEP) Single End Powered  
LED T8 Fixture Wiring

(Ballast Removed)

## Light-Emitting Diode Retrofit Luminaire Conversion Kit INSTALLATION INSTRUCTIONS

**WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.**

Each lamp holder (also known as “tombstone” or bi-pin socket) shall be installed only in the intended manner and location.

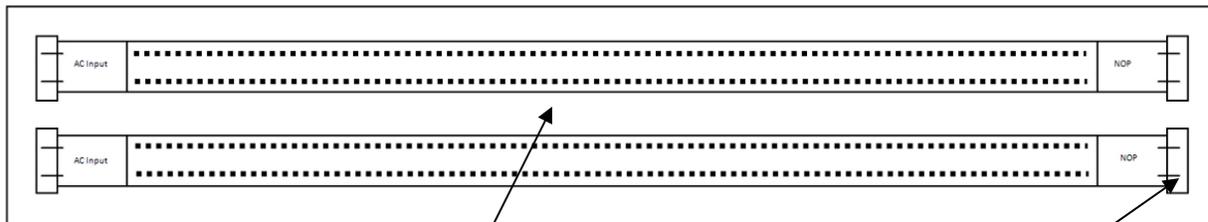
1. Make sure that the electrical power to the fixture is disconnected prior to any installation or retrofit.
3. Do not use these products in luminaires located where elevated ambient temperatures exist.
4. Caution: Risk of Electric Shock. These products are to be used in dry locations only.
5. Caution: Risk of Electric Shock. Do not use where directly exposed to water!
5. Not for use with dimmers.
6. This device is not intended for use with emergency exit fixtures or emergency exit lights.
7. Do not install in a raceway or luminaires marked for through branch wiring.
8. Do not use in conjunction with any type of ballast or driver. LED T8 Tubes are designed for 85V AC, 60Hz input only.
9. Do not use detergents, abrasive brushes or pads to clean the polycarbonate cover.
10. This product is sold in cases of 12 . Each LED T8 Retrofit Kit includes the following components: LED T8 Tube Lamp (1 pc), User manual, Warning Label (1 pc) (one label is to be used for each modified fixture). The final retrofit luminaires has been modified and can no longer operate the originally intended lamp.

**Make sure you have all the kit components before beginning any retrofit  
Do not remove or replace the original fixtures wiring. Utilize the existing wires for the retrofit.**

**Always connect ground lead to fixture where applicable.**

**USE ONLY WITH UL AND CUL LISTED RECESS-MOUNTED OR SURFACE-MOUNTED FLUORESCENT LUMINAIRES WITHOUT DIFFUSER.”**

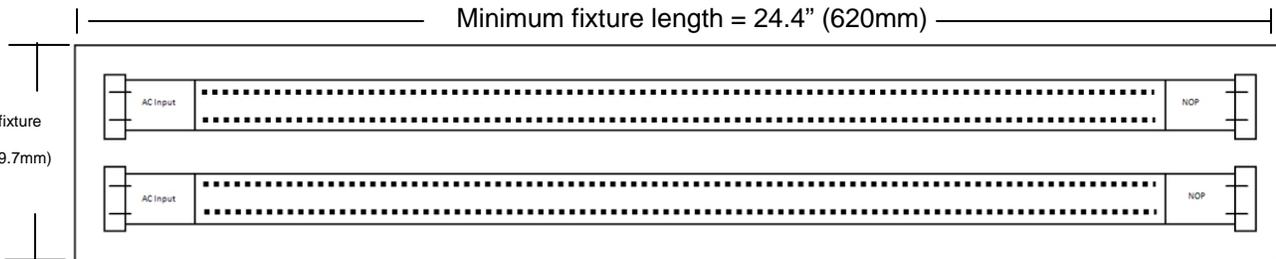
### TOP VIEW



Minimum distance between lamps = 1/4" Minimum distance between lamp sockets = 3/8"

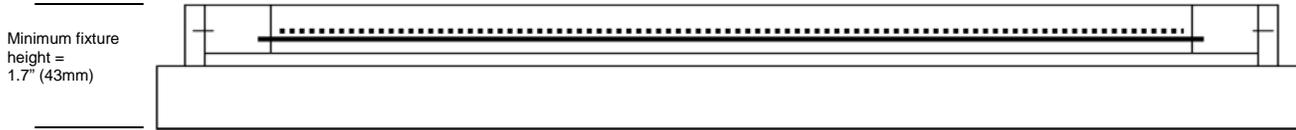
Minimum fixture length = 24.4" (620mm)

Minimum fixture width = 5.5" (139.7mm)



# Light-Emitting Diode Retrofit Luminaire Conversion Kit INSTALLATION INSTRUCTIONS

## SIDE VIEW



### Retrofit Procedure (Step by Step Guide)

Note: One end is powered by AC Common/Live and the other AC Neutral. If after rewiring and installation of the LED T8 Tube the tube does not illuminate:

- Ensure that the tube is inserted correctly and the safety switches are engaged
- Reverse the tube in the fixture as the common end and neutral end may be reversed.

#### 1. Be sure **power is shut off at source!**

Step 1: Remove Decorative Trim/  
Reflector Trim/or Prismatic Diffuser



Step 2: Carefully remove the old fluorescent tube. (Contains Mercury) Poison Hazard.



Step 3: Remove Ballast Cover/  
Reflector Ballast Cover



Step 4: Disconnect the supply wires to the Ballast



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## Retrofit Procedure (Step by Step Guide)

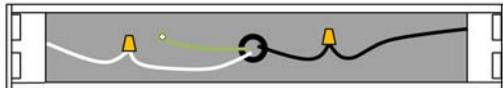
Step 5: Cut wires leading from the Ballast to the lampholders



Step 6: Remove Ballast



Step 7: Connect the remaining wires coming from the lampholders (one side to common and one end of the fixture to neutral and green wire is to ground).



Step 8: Replace Ballast Cover/Reflector



Step 9: Install the LED T8 into the lamp holders.  
**(See next page for critical information)**



Step 10: Apply AC and replace the Decorative Trim/Reflector Trim/or Prismatic Diffuser





## Light-Emitting Diode Retrofit Luminaire Conversion Kit INSTALLATION INSTRUCTIONS



If the LED T8 tube does not turn in the socket DO NOT FORCE. You may need to replace the Lampholders due to the safety switch compatibility issue.

If the tube does rotate into position and the LED T8 still does not illuminate then:

REMOVE THE LED T8 LAMP AND REVERSE THE TUBE IN THE FIXTURE

If the tube does rotate into position and the LED T8 still does not illuminate then:

REMOVE THE LED LAMP AND CHECK TO SEE IF THE SAFETY SWITCH HAS BEEN DAMAGED. IF THE SWITCH IS NOT COMPLETELY CLOSING THE LED T8 WILL NOT ILLUMINATE.

If you find that you have you do in fact have a compatibility issue with the safety switch and the lamp holder. Please contact Viribright to purchase proper lampholders. See more about lampholder compatibility solutions in the specific document or contact your Viribright sales and service associate.

Should you require any additional support please contact us at the number below or your reseller directly.

Thank you for retrofitting with Viribright.

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Corona, CA 92883  
1-877-847-4276 (Toll Free Support Line)