



# MaxLite® External LED T8 - 4FT

## General Safety Information

**WARNING - Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components.**

**WARNING - Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.**

**WARNING - Risk of fire or electric shock. Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.**



**Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.**

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

**Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead installers should cut existing lampholder leads away from the lampholder and make new electrical connections to lampholder lead wires by employing applicable connectors.**

**THIS RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION.**

The LED tube are intended to retrofit surface mount, Type IC or non-IC recessed mount Listed fluorescent luminaires that use maximum 4 straight tubular lamps with or without a diffuser, the minimum dimension of luminaries are tabulated below:

**NOTE: The external T8 lamps can be installed single-ended or double-ended. (See page 2 for single-ended installation or page 3 for double-ended.)**

The products are intended to be used in dry and damp locations only.

Model No.	LED Driver Model Number	Input			Output		
		Voltage (Vac)	Frequency (Hz)	Current (A)	Voltage (Vdc)	Current for each channel (mA)	Total Channel
<b>L13T8EX4xx</b>	DDR2L13	120-277	50/60	0.25-0.13	36-45	270	2
	DDR4L13	120-277	50/60	0.49-0.23	36-45	270	4
<b>L18T8EX4xx</b>	DDR2L18	120-277	50/60	0.44-0.25	36-45	370	2
	DDR4L18	120-277	50/60	0.68-0.32	36-45	370	4

LED Lamp Model Number	Input Ratings				Lamp Base
	V	Hz	mA	W	
<b>L13T8EX4xx</b>	36-45	--	270	13	G13
<b>L18T8EX4xx</b>	36-45	--	370	18	G13

Model Number	MINIMUM LAMP COMPARTMENT DIMENSIONS		
	Lamp compartment of Luminaire, overall dimensions, cm (Length x Width x Height)	Maximum Lamps in Luminaire	Lampholder-to-Lamp holder Spacing (cm)
<b>L13T8EX4xx &amp; L18T8EX4xx</b>	121.5 x 60.5 x 10	4	11



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## Installation & Operation - Single-Ended Wiring

### ⚠ WARNING

Disconnect the power by turning off the circuit breaker or by removing the appropriate fuse at the fuse box. Turning the power off using the light switch is not sufficient to prevent electrical shock.

**Step 1:** Make sure the circuit breaker that supplies power to the fixture is turned off.

**Step 2:** Remove lens or diffusion cover on the lighting fixture.

**Step 3:** Remove the existing T8/T12 florescent tubes.

**Step 4:** Remove the ballast cover and identify the line and neutral wires running from the breaker box to the ballast and confirm the power is off using a voltmeter.

**Step 5:** Ensure that the fixture contains non-shunted G13 bi-pin lamp holders. If not, remove Shunted lamp holders and install non-shunted lamp holders.

**Step 6:** Cut the line and neutral wires at the ballast, as well as all remaining wires at the ballast (see **Figure 1**).

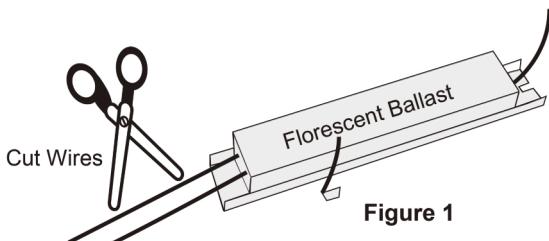


Figure 1

**Step 7:** Remove Ballast (and starter if present). Dispose of removed ballast in accordance with government regulations in your area.

**Step 8:** For single-ended wiring, please see **Figure 2a, 2b, 2c or 2d**.

**Step 9:** Reinstall the ballast cover to hide all wire.

**Step 10: IMPORTANT:** Peel off the provided caution label and install on a visible location inside the fixture.

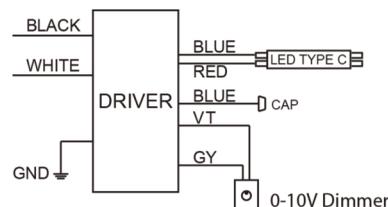


Figure 2a

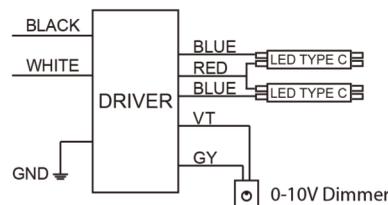


Figure 2b

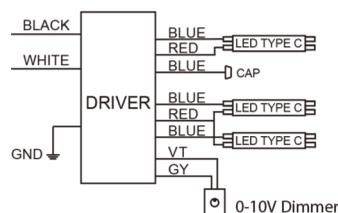


Figure 2c

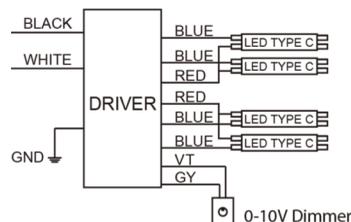


Figure 2d

This luminaire has been modified to operate LED lamps. Do not attempt to install or operate fluorescent lamps in this luminaire.

Ce luminaire a été modifié pour fonctionner des lampes LED. Ne essayez pas d'installer ou de faire fonctionner les lampes fluorescentes dans ce luminaire.

Kit Model: L13T8EX4xx(DDR2L13) or L13T8EX4xx(DDR4L13)  
Lamp Model: L13T8EX4xx "xx" = CCT: 35, 40 or 50

MaxLite  
MAXLITE, INC.  
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Tel: 973-244-7300  
www.MaxLite.com

Or

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Ce luminaire a été modifié pour fonctionner des lampes LED. Ne essayez pas d'installer ou de faire fonctionner les lampes fluorescentes dans ce luminaire.

Kit Model: L18T8EX4xx(DDR2L18) or L18T8EX4xx(DDR4L18)  
Lamp Model: L18T8EX4xx "xx" = CCT: 35, 40 or 50

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# MaxLite® External LED T8 - 4FT

## Installation & Operation - Double-Ended Wiring

### ⚠ WARNING

Disconnect the power by turning off the circuit breaker or by removing the appropriate fuse at the fuse box. Turning the power off using the light switch is not sufficient to prevent electrical shock.

**Step 1:** Make sure the circuit breaker that supplies power to the fixture is turned off.

**Step 2:** Remove lens or diffusion cover on the lighting fixture.

**Step 3:** Remove the existing T8/T12 florescent tubes.

**Step 4:** Remove the ballast cover and identify the line and neutral wires running from the breaker box to the ballast and confirm the power is off using a voltmeter.

**Step 5:** Cut the line and neutral wires at the ballast, as well as all remaining wires at the ballast (see **Figure 1**).

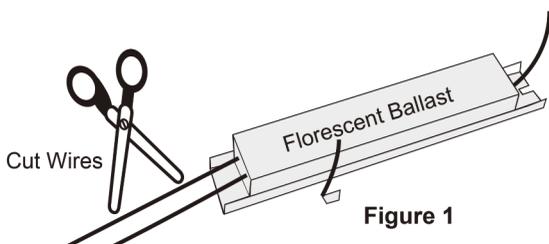


Figure 1

**Step 6:** Remove Ballast (and starter if present). Dispose of removed ballast in accordance with government regulations in your area.

**Step 7:** For double-ended wiring, please see **Figure 3a, 3b, 3c or 3d**.

**Step 8:** Reinstall the ballast cover to hide all wire.

**Step 9: IMPORTANT:** Peel off the provided caution label and install on a visible location inside the fixture.

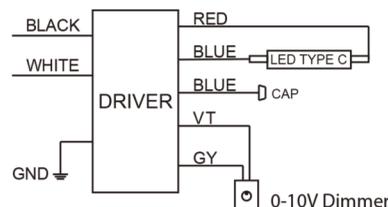


Figure 3a

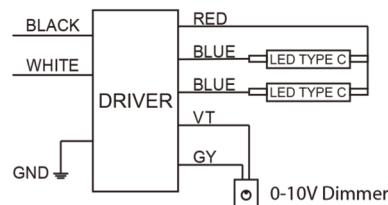


Figure 3b

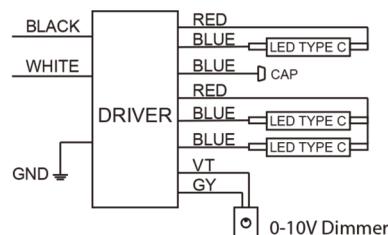


Figure 3c

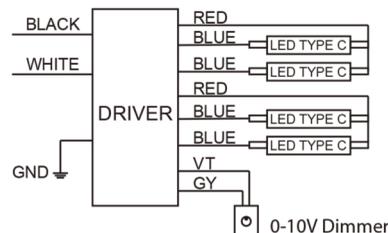


Figure 3d

This luminaire has been modified to operate LED lamps. Do not attempt to install or operate fluorescent lamps in this luminaire.

Ce luminaire a été modifié pour fonctionner des lampes LED. Ne essayez pas d'installer ou de faire fonctionner les lampes fluorescentes dans ce luminaire.

Kit Model: L13T8EX4xx(DDR2L13) or L13T8EX4xx(DDR4L13)  
Lamp Model: L13T8EX4xx "xx" = CCT: 35, 40 or 50

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## MaxLite® External LED T8 - 4FT

### Warranty Information

MaxLite Inc. warrants its products for a minimum period of **FIVE (5)** years from the date of original purchase from MaxLite or its authorized distributor/dealer (the "Warranty Period"), as follows: If a Product fails to operate during the Warranty Period as a result of defects in materials or workmanship, MaxLite will, at its option, repair it, replace it with the same or like Product.

Please refer to Maxlite's website (at <http://maxlite.com/resources/warranties>) for the complete terms and conditions of our warranty.

#### Limitation of Liability

THE FOREGOING WARRANTY IS EXCLUSIVE, AND IS THE SOLE REMEDY FOR ANY AND ALL CLAIMS, WHETHER IN CONTRACT, IN TORT OR OTHERWISE ARISING FROM THE FAILURE OF PRODUCT AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED TO THE EXTENT PERMITTED BY LAW AND, IN ANY EVENT, SHALL BE LIMITED TO THE WARRANTY PERIOD SPECIFIED ABOVE. THE LIABILITY OF MAXLITE SHALL BE LIMITED TO THE TERMS OF THE EXPRESS WARRANTY SET FORTH HEREIN. IN NO EVENT WILL MAXLITE BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, WITHOUT LIMITATION, DAMAGES RESULTING FROM LOSS OF USE, PROFITS, BUSINESS OR GOODWILL, LABOR COSTS, REMOVAL OR INSTALLATION COSTS, DECREASE IN THE LIGHT OUTPUT OF THE LAMP, AND/OR DETERIORATION IN THE LAMP'S PERFORMANCE, WHETHER OR NOT MAXLITE HAS BEEN ADVISED OF THE POSSIBILITY THEREOF. UNDER NO CIRCUMSTANCES SHALL MAXLITE'S ENTIRE LIABILITY FOR A DEFECTIVE PRODUCT EXCEED THE PURCHASE PRICE OF THAT PRODUCT. WARRANTY SERVICES PROVIDED UNDER THESE TERMS AND CONDITIONS DO NOT ENSURE THE UNINTERRUPTED OPERATION OF PRODUCTS; MAXLITE SHALL NOT BE LIABLE FOR DAMAGES CAUSED BY ANY DELAYS INVOLVING WARRANTY SERVICE.

This Limited Warranty gives you specific legal rights and you may also have other rights that may vary from state to state. Because some states or jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damages, this limitation may not apply to you.