

# LEDVANCE Lamps

## LEDlescent™ XP® LED T8 UL TYPE B LAMPS

### Application

LEDlescent Extended Performance (XP) T8 Ballast-Free lamps are an energy saving alternative, designed to replace traditional fluorescent T8/T12 lamps by bypassing the existing ballast. These lamps have extended life (70,000 hours) thereby saving labor and replacement cost improving the cost of ownership over time.

These LED T8 lamps contain no mercury, provide instant light and a uniform light distribution. Engineered to operate directly on 120-277V, these lamps minimize labor and recycling costs. These lamps can be used with occupancy and vacancy sensors for enhanced energy savings.

When installing the LEDlescent T8 lamps, the UL rating of the existing fixture is not voided (even when it is electrically modified), since our LEDlescent T8 lamp is UL Classified (as a luminaire conversion retrofit kit) under UL standard 1598C. UL 1598C is the standard covering LED retrofits intended for an existing UL rated fixture. Since the user is retrofitting with a UL1598C classified LED kit, the installer must follow the installation instructions included with the lamps for the modified fixture to retain its UL rating.

### Benefits and Features

- Efficacy up to 157 LPW
- CRI >80
- No warm-up time, instant-on with full light output and stable lamp-to-lamp color
- 3000K, 3500K, 4100K, 5000K and 6500K color temperatures
- Beam angle: 180° with frosted Nano Plastic optics
- Light emitting angle: 300°
- No warm-up time, instant-on with full light output and stable lamp-to-lamp color
- No UV emission
- Suitable for dry and damp locations
- Can be used in enclosed (lens or diffuser) luminaire. Not approved for use in vapor tight or sealed luminaire.
- Lamps are compatible with LEDVANCE Emergency Battery Backup (75740)

### Electrical

- Installed directly on 120-277 V<sub>AC</sub>
- Power Factor >0.9
- THD <20%
- Dimmable (Phase cut)



Emergency Battery Backup Information



### Wattage Comparison

Traditional Source	Traditional System Wattage	LED System Wattage*	Energy Savings**
4ft 32W T8 w/QHE 2X32T8/UNV ISN-SC	55	21	62%

\*LED 2-Lamp System: LED10.5T8L48FPDM8XXXPF  
\*\*Energy savings over life of lamp calculated at \$0.11/kWh

### Rated Life

- 70,000 hours (L<sub>70</sub>)

### Warranty

- The lamp is covered by a 7-year limited warranty. For additional details, please visit [www.ledvanceUS.com/warranty](http://www.ledvanceUS.com/warranty)
- NLB Trusted Warranty Program

### Ambient Operating Range

- -4°F to +113°F (-20°C to +45°C)

### Max Case Temperature

- 167°F (75°C)

### Certifications and Listings

- cULus (UL 1598c, UL 1993, and CSA 22.2)
- RoHS
- FCC, ICES
- Lead Free
- Mercury Free
- NSF (ANSI 2 – Food Equipment)
- DLC 5.1

### Installation

- Please refer to the Installation manual included inside the packaging and the applications information listed below for more information.



Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Guide

LED	10.5	T8	L48	FP	DIM	8	XX	XP	BF
Product Name	Wattage	Lamp Type	Length	Finish	Dimming	CRI	Color Temperature	Extended	Operation
LED	10.5 = 10.5 Watts	T8	L48 = 48"	FP = Frosted Nano Plastic	DIM = Dimmable	8 = 80	30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K 65 = 6500K	Performance XP = 70,000hr	BF = UL Type B

Ordering Information

Item Number	Ordering Abbreviation	Power (W)	Base Type	Replaces	Input Voltage (V)	Average Life (hrs)	CCT	Case Qty	Typical Lumens (lm)	CRI	Power Factor	Bulb Finish	DLC Listed
41596	LED10.5T8L48FPDIM830XPBF	10.5	G13	F032830ECO	120-277V	70,000	3000K	25	1650	82	>0.90	Frosted Nano Plastic	S-1IC6DG
41597	LED10.5T8L48FPDIM835XPBF	10.5	G13	F032835ECO	120-277V	70,000	3500K	25	1650	82	>0.90	Frosted Nano Plastic	S-FU0GA7
41598	LED10.5T8L48FPDIM841XPBF	10.5	G13	F032841ECO	120-277V	70,000	4100K	25	1650	82	>0.90	Frosted Nano Plastic	S-36T08H
41599	LED10.5T8L48FPDIM850XPBF	10.5	G13	F032850ECO	120-277V	70,000	5000K	25	1650	82	>0.90	Frosted Nano Plastic	S-4TKUQ3
42055	LED10.5T8L48FPDIM865XPBF	10.5	G13	F032865ECO	120-277V	70,000	6500K	25	1650	82	>0.90	Frosted Nano Plastic	S-XQUDMA

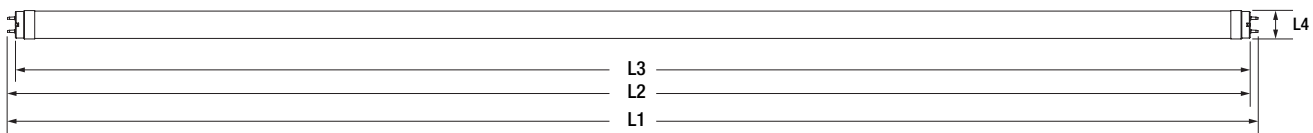
Dimmer Compatibility

Dimmer	Model
LUTRON	NTELV-600
LUTRON	SELV-303P
LUTRON	DVELV-600
LUTRON	NTELV-300

Specifications & Lighting Data

Lamp	Ballast	Current (120V/277V) (AMPS)	System Power (W)	System Lumens (lm)	System Efficacy (lm/W)	No of Lamps
LED10.5T8L48FPDIM8XXXPBF	N/A	0.183 / 0.0794	21	3300	157	2

Physical Information



Lamp Description	L1 End of Base Pin to End of Opposite Pin End	L2 Base Face to Opposite Base Pin	L3 Base Face to Base Face	L4 Bulb Outside Diameter
LED10.5T8L48FPDIM8XXXPBF	47.725" ± 0.055" (1212.2mm ± 1.4mm)	47.45" ± 0.05" (1205.25mm ± 1.25mm)	max 47.22" (1199.4mm)	1.02" ± 0.08" (25.9mm ± 2.0mm)

## Application Notes

1. Please read and comply with all instructions before attempting installation.
2. All installation, inspection, and maintenance of lighting fixtures should be done with the power to the fixture turned off. Lamps should be installed and operated in compliance with the National Electrical Code (NEC), Underwriters Laboratories Inc. (UL) requirements, and all applicable codes and regulations.
3. Please do not install LED lamps and fluorescent lamps in the same fixture.
4. Ensure lamp holders/sockets are in good operating condition before installation.
5. Best practice: cap off the remaining ballast wires should the ballast be left in the fixture after disconnecting.
6. To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects. Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
7. When using LEDlescent™ lamps, to conform to UL, you MUST affix the luminaire warning sticker, included inside the packaging, to the fixture during installation.
8. EM ballast that operates with fluorescent ballasts must be disconnected from the lamps.
9. Make sure the lamps have the proper connections before restoring power.
10. Operating temperature range between -4°F and 113°F (-20°C and 45°C).
11. For detailed warranty information, please see [www.ledvanceUS.com](http://www.ledvanceUS.com).

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