www.ledvanceUS.com

LEDVANCE Lamps

LEDlescent™ LED T8 8FT Ballast-Free Lamps

Application

LEDlescent T8 Ballast-Free lamps are an energy saving alternative, designed to replace traditional fluorescent T8/T12 lamps by bypassing the existing ballast. 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. UL1598C 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

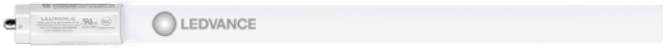
- Efficacy up to 138 LPW
- CRI >80
- No warm-up time, instant-on with full light output and stable lamp-to-lamp color
- 3000K, 3500K, 4100K and 5000K color temperatures
- Beam angle: 200° with frosted glass optics
- No risk of electrical arcing between the lamp pins and the lamp holders
- Double-ended wiring configuration
- No UV emission
- Suitable for dry and damp locations

Electrical

- Installed directly on 120-277VAC
- Power Factor >0.9
- THD <20%
- Dimmable (Please contact LEDVANCE for more details)

Rated Life

- 50,000 hours (L_{70})



Wattage Comparison

Traditional Source	Traditional System Wattage	LED System Wattage[1]	Energy Savings[2]
FO96T8 w/QHE 2X59T8/UNV ISN	109	64	41%
F96T12 w/Magnetic ballast	160	64	60%

1. Ballast Bypass
2. 24 hours a day

Warranty

- 5-year limited lamp warranty (24/7 operation)
- NLB Trusted Warranty Program

Operating Temperature

- -4°F to +113°F (-20°C to +45°C)

Max Case Temperature

- 167°F (75°C)

Certifications and Listings

- cULus (UL 1993, UL1598c and CSA22.2)
- RoHS
- FCC
- NSF
- Lead Free
- Mercury Free
- DLC 5.1

Installation

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

LED593R4 10-25

Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Guide

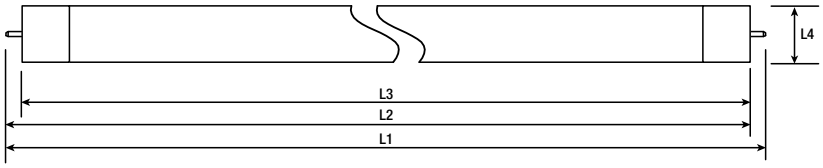
LED	32	T8	L96	FG	DIM	8	XX	BF	G2
Product Name LED	Wattage 32 = 32 Watts	Lamp Type T8	Length L96 = 96"	Color/Finish FG = Frosted Glass	DIM = Dimmable	CRI 8 = 82	Color Temperature 30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K	Lamp Type BF = Ballast-Free	Generation G2 = Gen 2

Ordering Information

Item Number	Ordering Abbreviation	Lamp Power (W)	Base Type	Length	Lens Material	Typical Lumens (lm)	Bare Lamp Efficacy (LPW)	CRI	CCT	Beam Angle (°)	Life (L_{70}) Hours	Package Qty	DLC
42056	LED32T8L96FGDIM830BFG2	32	FA8	8ft	Frosted Glass	4000	125	82	3000K	200	50,000	10	5.1
42057	LED32T8L96FGDIM835BFG2	32	FA8	8ft	Frosted Glass	4000	125	82	3500K	200	50,000	10	5.1
42058	LED32T8L96FGDIM841BFG2	32	FA8	8ft	Frosted Glass	4400	138	82	4100K	200	50,000	10	5.1
42059	LED32T8L96FGDIM850BFG2	32	FA8	8ft	Frosted Glass	4400	138	82	5000K	200	50,000	10	5.1

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
LED32T8L96FGDIM8XXBFG2	93.865" ± 0.135" (2384.171mm ± 3mm)	93.535" ± 0.115" (2375.789mm ± 2.921mm)	max 93.39" (2369.82mm)	1.02" ± 0.08" (25.9mm ± 2.0mm)



Application Information

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. Suitable for use in dry and damp environments.
12. For detailed warranty information, please see www.ledvanceUS.com.

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