

LEDVANCE LAMPS

LEDlescent™ LED T8 AND T5HO CCT SELECTABLE BALLAST-FREE UL TYPE B LAMPS - UNH 120-347V

LEDVANCE LUMINAIRE SPECIFICATION DATA

Catalog #	Comments
Project	
Type	
Prepared by	



APPLICATION

LEDlescent T8 and T5HO Ballast-Free lamps provide a CCT selectable feature that allows for selecting a desired color temperature ranging from 3500K to 5000K. These lamps are an energy saving alternative, designed to replace traditional fluorescent T8/T12 or T5HO lamps by bypassing the existing ballast. These LED lamps contain no mercury, provide instant light and a uniform light distribution. Engineered to operate directly on 120-347V, 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 lamps, the UL rating of the existing fixture is not voided (even when it is electrically modified) since our LEDlescent lamps are 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. To complete installation and maintain UL, the luminaire warning label must be

affixed to the luminaire where it will be visible to future maintenance personnel.

BENEFITS & FEATURES

- Efficacy up to 153 LPW
- T8: Double-ended and Single-ended wiring configuration
- T5HO: Double-ended wiring configuration only
- CRI >80
- No lamp polarity
- No warm-up time, instant-on with full light output and stable lamp-to-lamp color
- Available in 2ft, 3ft and 4ft lengths for T8 and 4ft for T5HO
- CCT Select: 3500K, 4100K, or 5000K color temperatures
- Beam angle T8: 220° with frosted glass optics
- Beam angle for T5HO: 180° with shatter resistant PET coating
- Light emitting angle: 320°
- 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

ELECTRICAL

- Operated directly on 120-347V
- Power Factor >0.9
- THD <20%
- Lamps are dimmable down to 10% with 120V phase cut dimmers (see the dimmer list below)



RATED LIFE

- 50,000 hours (L₇₀)

OPERATING TEMPERATURE

- -4° F to + 113° F (-20°C to +45°C)

MAXIMUM CASE TEMPERATURE

- 158° F (70°C)

CERTIFICATIONS & LISTINGS

- cULus (UL1598C/UL1993/CSA C22.2)
- ETL for NSF/ANSI 2 – Food Equipment
- RoHS
- FCC Part 15B/ICES 005
- Lead Free
- DLC 5.1
- Mercury Free

WARRANTY

- Lamps are covered by a 5-year limited warranty. For additional details, please visit: www.ledvanceUS.com/warranty
- NLB Trusted Warranty Program

INSTALLATION

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

WATTAGE COMPARISON

NAED	TRADITIONAL SOURCE	TRADITIONAL SYSTEM WATTAGE	LED SYSTEM	LED SYSTEM WATTAGE	ENERGY SAVINGS	NUMBER OF LAMPS
42165	FO17T8 w 2xQHE 2x32 ISN	29	LED7T8L24FGUNH8SC7BF	14	52%	2
42166	FO25T8 w 2xQHE 2x32 ISN	43	LED12T8L36FGUNH8SC7BF	24	44%	2
42168	FO32T8 w 2xQHE 2x32 ISN	55	LED15T8L48FGUNH8SC7BF	30	45%	2
42212	FO54T5 w 2xQHE 2x54 PSN	120	LED24T5HOL48FGPUNH8SC7BF	49	59%	2

ORDERING GUIDE

LED	XX	XX	LXX	FGX	UNH	8	SC7	BF
LED	WATTAGE	TUBE	LENGTH	COLOR/FINISH	INPUT VOLTAGE	CRI	COLOR TEMP	OPERATION
LED	7 12 15	T8	L24 = 24" L36 = 36" L48 = 48"	FG = Frosted Glass	UNH = 120 - 347V	8 = 81+	3500K/4100K/5000K	BF = UL Type B
LED	24	T5HO	L48 = 48"	FGP = Frosted Glass with PET	UNH = 120 - 347V	8 = 82+	3500K/4100K/5000K	BF = UL Type B

ORDERING INFORMATION

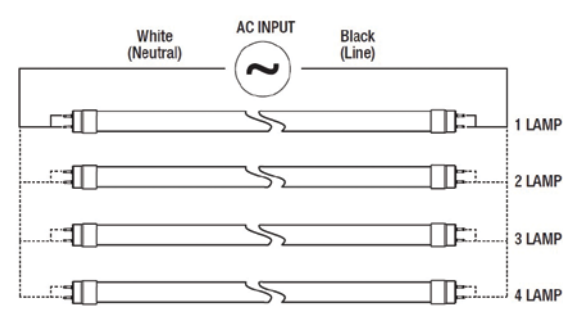
NAED	ORDERING ABBREVIATION	LAMP LENGTH	BASE TYPE	LAMP POWER (W)	INITIAL LUMENS @4100K (LM)	EFFICACY (LPW)	COLOR TEMP. (CCT)	CRI	BEAM ANGLE	PACKAGE QUANTITY	DLC (Y/N)
42165	LED7T8L24FGUNH8SC7BF	2ft	G13	7	1050	150	3500/4100/5000K	>81	220	25	Y
42166	LED12T8L36FGUNH8SC7BF	3ft	G13	12	1550	129	3500/4100/5000K	>82	220	25	Y
42168	LED15T8L48FGUNH8SC7BF	4ft	G13	15	2200	146	3500/4100/5000K	>82	220	25	Y
42212	LED24T5HOL48FGPUNH8SC7BF	4ft	G5	24	3500	146	3500/4100/5000K	>82	180	25	Y

WIRING DIAGRAMS

Please consult the installation manual provided in the shipping carton for more wiring details.

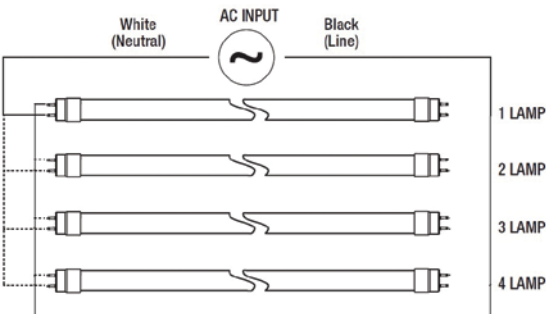
Double-Ended Wiring (Both T8 and T5HO Lamps)

Recommended for all new installations.

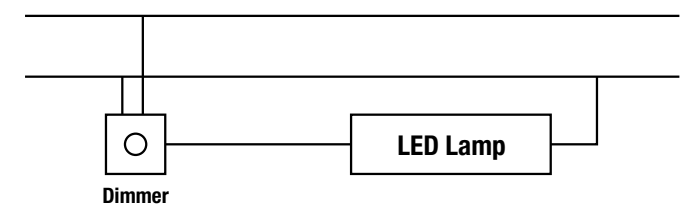


Single-Ended Wiring (T8 lamps only)

For installations previously wired in single-ended configurations



WIRING DIAGRAM WITH PHASE CUT DIMMER WIRED TO 120 V_{AC}



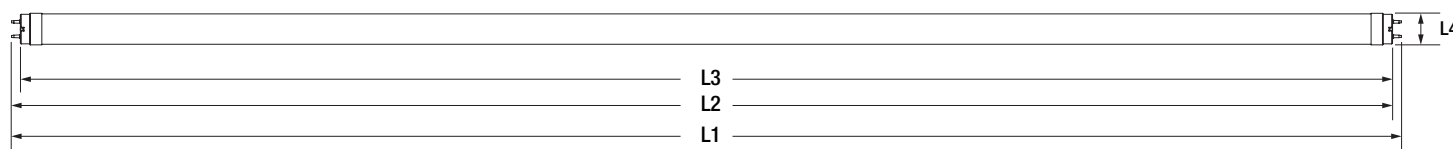
DIMMER COMPATIBILITY

BRAND	MODEL	INPUT VOLTAGE	DIMMER TYPE
LUTRON	DVELV – 303P	120V	Phase Cut
LUTRON	SELV – 300P	120V	Phase Cut
LUTRON	CTELV – 300P	120V	Phase Cut
LUTRON	NTELV – 300*	120V	Phase Cut
LUTRON	NTELV – 600*	120V	Phase Cut

Lamps are tested and compatible with above dimmers.
*LUTRON NTELV-300 and NTELV-600 are compatible with two EA T5HO lamps. More than two lamps may exhibit audible noise when dimming.

PHYSICAL INFORMATION

LAMP DESCRIPTION	LENGTH FROM END OF BASE PIN TO END OF OPPOSITE PIN END (L1)	BASE FACE TO OPPOSITE BASE PIN (L2)	LENGTH FROM BASE FACE TO BASE FACE (L3)	DIAMETER (L4)	WEIGHT (LB/G)
LED7T8L24FGUNH8SC7BF (2ft)	23.72" $\pm$ 0.055" (602.6mm $\pm$ 1.4mm)	23.45" $\pm$ 0.05" (595.65mm $\pm$ 1.25mm)	max 23.22" (589.8mm)	1.02" $\pm$ 0.08" (25.9mm $\pm$ 2.0mm)	0.29/133
LED12T8L36FGUNH8SC7BF (3ft)	35.72" $\pm$ 0.055" (907.4mm $\pm$ 1.4mm)	35.45" $\pm$ 0.05" (900.45mm $\pm$ 1.25mm)	max 35.22" (894.6mm)	1.02" $\pm$ 0.08" (25.9mm $\pm$ 2.0mm)	0.36/164
LED15T8L48FGUNH8SC7BF (4ft)	47.725" $\pm$ 0.055" (1212.2mm $\pm$ 1.4mm)	47.45" $\pm$ 0.05" (1205.25mm $\pm$ 1.25mm)	max 47.22" (1199.4mm)	1.02" $\pm$ 0.08" (25.9mm $\pm$ 2.0mm)	0.51/230
LED24T5HOL48FGPUNH8SC7BF (4ft)	45.80" $\pm$ 0.055" (1163.2mm $\pm$ 1.4mm)	45.52" $\pm$ 0.05" (1154.9mm $\pm$ 1.25mm)	max 45.24" (1149.0mm)	0.60" $\pm$ 0.08" (17mm $\pm$ 2.0mm)	0.40/180



APPLICATION NOTES

- Please read and comply with all instructions before attempting installation
- 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
- Please do not install LED lamps and fluorescent lamps in the same fixture
- Ensure lamp holders/sockets are in good operating condition before installation
- Best practice: cap off the remaining ballast wires should the ballast be left in the fixture after disconnecting
- 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
- Emergency ballast that operates with fluorescent ballasts must be disconnected from the lamps
- Make sure the lamps have the proper connections before restoring power
- Operating temperature range between -4°F and 122°F (-20°C and 50°C)
- Suitable for use in dry and damp environments.
- For detailed warranty information, please see www.ledvanceUS.com



LEDVANCE LLC
181 Ballardvale Street, Suite 203
Wilmington, MA 01887 USA
Phone 1-800-LIGHTBULB (1-800-544-4828)
www.ledvanceUS.com

LEDVANCE is a registered trademark.
All other trademarks are those of their respective owners.
Specifications subject to change without notice.



SCAN TO FOLLOW US
ON SOCIAL MEDIA