



# Quick Installation Guide

## Philips CorePro LED T8 lamps

Please take the time to read this quick installation guide. The guide contains important information and notes regarding the installation and operation of Philips CorePro LED T8.

### Instructions

- Philips CorePro LED T8 Lamps are suitable to replace either T8 fluorescent lamps in fixtures containing standard non-shunted G13 (medium bi-pin) sockets.

### Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Ordering Code	Nom. Watts	Volts	Description	Lamp Type	Base	Rated Avg. Life (Yrs.) <sup>1</sup>	Approx.		Temp. (Kelvin)	Color MOL (in.)
								Lumens	CRI		
<b>CorePro LED T8</b>											
42975-3	20T8/COREPRO/48-3000K FRST UNV	20	100-277	LED T8 4ft 3000K	T8	G13	30,000	1500	80	3000	48
42976-1	20T8/COREPRO/48-4000K FRST UNV	20	100-277	LED T8 4ft 3000K	T8	G13	30,000	1600	80	4000	48
42977-9	16T8/COREPRO/48-4000K CLR UNV	16	100-277	LED T8 4ft 3000K	T8	G13	30,000	1400	80	4000	48
42981-1	10T8/COREPRO/24-3000K FRST UNV	10	100-277	LED T8 2ft 3000K	T8	G13	30,000	750	80	3000	24
42982-9	10T8/COREPRO/24-4000K FRST UNV	10	100-277	LED T8 2ft 3000K	T8	G13	30,000	800	80	4000	24
42983-7	8T8/COREPRO/24-4000K CLR UNV	8	100-277	LED T8 2ft 3000K	T8	G13	30,000	700	80	4000	24

1) Rated average life based on engineering testing and probability analysis.

2) Light output comparison based upon the ENERGY STAR® Integral LED Lamp Center Beam Intensity Benchmark tool which can be found at [EnergyStar.gov/LEDbulbs](http://EnergyStar.gov/LEDbulbs), LED Light Bulbs for Partners, Program Requirements PDF Pg. 11.

### Electrical and Technical Data (Subject to change without notice)

LED Tube Model No.	Input Voltage, Vac	Input Frequency, Hz	Input Wattage, W	Input Current, mA
9290002989	120-277	60	20	70-195
9290002990	120-277	60	20	70-195
9290002991	120-277	60	10	35-100
9290002992	120-277	60	10	35-100
9290002993	120-277	60	8.5	32-75
9290002994	120-277	60	16	55-140




During retrofit, rewiring is a MUST, please follow the installation steps below.

### Retrofit Instructions

1. Remove diffuser (if applicable) and fluorescent lamp.
2. Open\Remove Wiring Compartment Cover.
3. Cut off all wires which connected to ballast.
4. Connect one wire from each lampholder together.

Please check the L/N (Mains Input) markings on the lamp end and insert the lamp with AC Mains supplied to the corresponding end.



5. Connect one wire from the lampholder to branch circuit L (Live wire) and the other wire at the opposite end to the Branch Circuit N ( Neutral wire).
6. Close up wiring compartment.
7. Install TL LED tube.
8. Switch on power.
9. Repeat steps 3 to 5 for each additional bulb\ballast based on illustration below.

### Luminaire Description

- Philips TL LED tube is suitable to be installed in T8 or T12 standard luminaries.
- Philips TL LED tubes can't retrofit original luminaries which use remote Starter.
- Ensure all parts and accessories are in the package, included instruction, filed-applied label and tubular LED lamp, the additional wire connector and No. 18 AWG wiring may be provided.
- Philips TL LED tubes are intended to retrofit maximum four lamps, UL Listed surface mount, or type IC or non-IC recessed mount fluorescent luminaries with diffuser that use straight tubular lamps. These products intended to be used in dry or damp locations only.
- Please make sure the existed luminaire dimension is larger than dimension described in below table.

Philips EnduraLED tube intended to retrofit Max. Number tubes in original luminaire	Luminaire Dimension with Max. No. of tubes Length X Width X Height (cm)
Max. 4pcs LED tubes(19290002989, 9290002990 or 9290002994) can be operated in a luminaire with or without diffuser	120 x 60 x 8
Max. 4pcs LED tubes(9290002991, 9290002992 or 9290002993) can be operated in a luminaire with or without diffuser	60 x 60 x 8

Figure A – Retrofit Luminaire with One Lamp

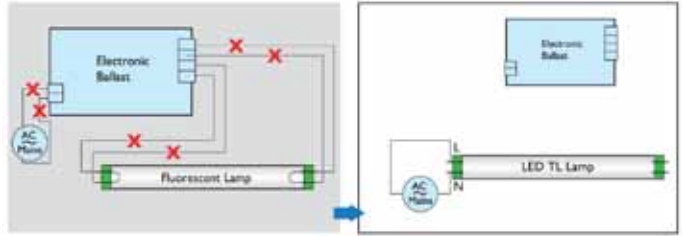


Figure B – Retrofit Luminaire with Two Lamps and one ballast

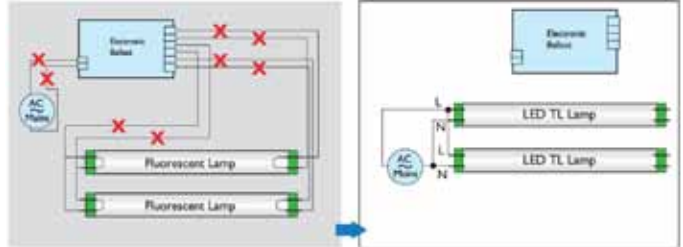


Figure C – Retrofit Luminaire with Three/Four Lamps and one ballast

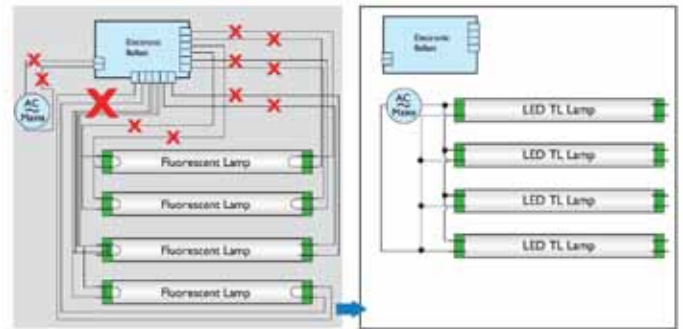
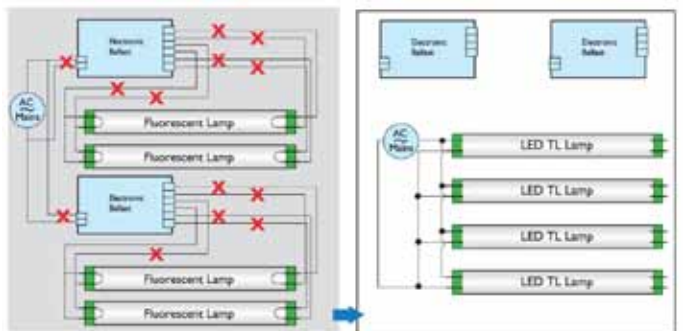



Figure D – Retrofit Luminaire with Three/Four Lamps and two ballasts



### Sockets


Rapid Start Socket



Non-Shunted

VS.

Instant Start Sockets



Shunted

## WARNINGS, CAUTIONS AND OPERATING INSTRUCTIONS

**WARNING:** "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."

1. Risk of fire or electric shock. Not for direct replacement of fluorescent lamps. Use only with Philips ICN2P24TLEDSC35M / ICN4P24TLEDSC35M power supply.
2. Risk of fire or electric shock. Luminaires wiring, ballasts, or other electrical parts may be damaged when installing of reflector kit hardware. Check for enclosed wiring and components.
3. 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.
4. Risk of fire or electric shock. Install this kit only in the luminaires that has the construction features and dimensions shown in the photographs and/or drawings.
5. To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
6. 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.

**DANGER-RISK OF SHOCK-DISCONNECT POWER BEFORE INSTALLATION.**

**WARNING** - Risk of fire or electric shock. Install this kit only in the luminaires that have the construction features and dimensions shown in the photographs and/or drawings.

**WARNING:** To avoid potential fire or shock hazard, do not use this retrofit kit in luminaires employing shunted bi-pin lampholders. Note: Shunted lamp holders are found only in fluorescent luminaires with Instant-Start ballasts. Instant-start ballasts can be identified by the words "Instant Start" or "I.S." marked on the ballast. This designation may be in the form of a statement pertaining to the ballast itself, or may be combined with the marking for the lamps with which the ballast is intended to be used, for example F40T12/IS. For more information, contact the LED luminaire retrofit kit manufacturer.

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.

**SUITABLE FOR DAMP LOCATIONS.**

**NOT FOR USE WITH DIMMERS**

**THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS.**

**Lamps must be operated within an ambient fixture temperature of -22F (-30c) and 113F (45c) to ensure UL compliance.**



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