



4 ft T8 LED Tube, 18W, 5000K, Type A+B Ballast Compatible, UL Listed

- 18W power draw with 130 lm/W efficacy via Epistar SMD2835 chip
- 5000K color temperature with CRI above 80 for accurate color rendering
- Type A+B ballast compatible for retrofit or direct-wire installation
- 120° beam angle with clear cover for uniform light distribution
- Rated for -20°C to 40°C ambient operating temperature, IP20
- 50,000 hour LED lifetime with UL listing and 1-year limited warranty

OVERVIEW

The 18W T8 LED tube is a direct replacement for standard 4 ft fluorescent lamps, suited for commercial and industrial applications including offices, warehouses, and retail spaces. It operates in Type A or Type B mode, allowing compatibility with existing fluorescent ballasts or direct line-voltage wiring.

The tube delivers 130 lm/W luminous efficacy at a 5000K color temperature with a CRI of 80 or above, using an Epistar SMD2835 chip and a clear cover for uniform light distribution across a 120° beam angle. It operates on 120-240V input and is rated for an ambient temperature range of -20°C to 40°C, with an IP20 environmental rating and a 50,000 hour service life.

The fixture is UL listed and carries a 1-year limited warranty.

SPECIFICATIONS

OPTICAL

Efficacy	130 lm/W
Color Temperature	5,000 K
CRI	80
Beam Angle	120°
LED Chip Type	Epistar SMD2835
LED Lifetime	50,000 h
Light Color	White

MECHANICAL

Finish	White
Material	Plastic cover + Aluminum

ORDERING

Warranty	1 y
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ELECTRICAL

Operating Voltage	120-240 V
Wattage	18 W

ENVIRONMENTAL

IP Rating	IP20
Ambient Operating Temperature	-20-40 °C -4-104 °F

CERTIFICATIONS & COMPLIANCE



UL Listed

APPLICATIONS

- Commercial office lighting retrofit
- Warehouse and industrial facility lighting
- Retail space illumination
- Fluorescent fixture replacement

PROVENANCE — REVIEW COPY ONLY

slug	value	source	confidence
efficacy_lm_per_w	130 lm/W	pdf	high
cct_k	5,000 K	db	high
cri	80	db	high
beam_angle_deg	120°	db	high
led_chip_type	Epistar SMD2835	pdf	high
led_lifetime_h	50,000 h	db	high
color	White	db	high
operating_voltage	120–240 V	db	high
wattage	18 W	db	high
finish	White	db	high
material	Plastic cover + Aluminum	db	high
ip_rating	IP20	db	high
ambient_temp_c	–20–40 °C	db	high
warranty_years	1 y	db	high

Specifications subject to change without notice.