



PRODUCT DATASHEET

LED AB T8 12W 4' FGP 850

SYLVANIA DUALescent™ LED T8 | DUALescent T8 lamps replace fluorescents with ballast or line voltage compatibility



Areas of application

- Office lighting (workplaces, corridors)
- Education
- Grocery
- Warehouses
- Parking garages
- Retail

Product features

- G13 base LED T8 for use with instant start and select programmed rapid start electronic T8 ballasts or direct wire to 120-277V
- Can be used in Single-Ended (SE) and Double-Ended (DE) wiring configurations
- Lamps operate on shunted and non-shunted lamp holders thereby reducing installation costs when wired in the double-ended configuration (recommended)
- Optimized glass optics with shatter-resistant PET coating
- No polarity; can be installed in either direction
- Operated as UL Type B, DUALescent can also be used to replace T12 lamps
- Suitable for use with tube guards
- For UL Type A: Compatible with the following emergency ballasts: IOTA: ISL-54, ISL-540, and I-160
- DLC listing allows for rebates in areas where applicable, saving on overall project cost
- Up to 150 system LPW
- Beam angle: 200°; Light emitting angle: 320°
- Energy savings up to 56 %

TECHNICAL DATA

Additional product data

Base type	G13
Mercury content	0.0 mg
Ordering Abbreviation	LED12T8L48FGP850AB
Abbrev. With Packaging Info.	LED12T8L48FGP850AB 25/CS 1/SKU
SKU UPC	0046135414824
NAED	41482
Family Brand Name	DUALescent™
General Description	4FT DUALescent™ T8 UL Type A and B, Frosted Glass with PET Coating, 12W, 5000K 82 CRI, 1,800 Lumens, 50,000 Hrs Life, Operates on ECG or directly on 120-277V, Single or Double ended wiring.
Warranty	5 years

Electrical data

Nominal Wattage	12.00 W
Nominal voltage	120.00...277.00 V
Claimed Equivalent Lamp Pwr	32 W

Photometrical data

Lumens	1800 lm
Efficacy	150
Color Temperature/CCT	5000 K
Color Rendering Index (CRI)	82
Light color	850

Dimensions & Weight

Overall length	1214.00 mm
Diameter	0.94 in
Product weight	0.49 lb

Materials & Colors

Lamp Finish	Frosted
Bulb shape	T8
Bulb Glass Type	SOFT GLASS

Application & Mounting

Dimming	No
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Temperatures & operating conditions

Ambient temperature range	0...+45 °C
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Lifespan

Average Rated Life (hr)	50000
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Capabilities

Dimming	No
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Certificates & Standards

Certification Listing	RoHS / CSA / FTC / FCC
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Logistical data

SKU Qty	1
Case Qty	25
Case Length (in)	48.819
Case Width (in)	7.480
Case Depth (in)	7.677
Case Cube (ft)	1.622
Case Weight (lbs)	22.822
SKU UPC	0046135414824
Pallet Qty	750

Safety advice

- Please read and comply with all instructions, including the installation manual included inside the packaging 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.
- Not for use with ballasts more than ten years old.
- For proper use and warranty coverage, the installer must consult the ballast compatibility list to ensure that the lamp and ballast combination is deemed compatible and will operate as intended.
- IMPORTANT: For all new installations operating as UL Type B, follow the wiring instructions for double-ended wiring (recommended). Approved for Single-ended configuration for existing UL Type B applications previously wired as such. See installation manual for wiring options.
- Ensure lamp holders/sockets are in good operating condition before installation and if any defects are detected, change the lamp holders/sockets.
- Ensure tubes are fully inserted and properly aligned in the lamp holders. Partial insertion can cause poor or intermittent electrical contact, leading to reduced lamp life and potential arcing, which may result in localized overheating.
- For instant start ballasts, use lamp holders with an internal shunt or ensure that lamp holders are wired in a shunt configuration.
- For Programmed Rapid Start ballasts, use rapid-start lamp holders (non-shunted lamp holders).
- De-lamp is not allowed for ISH ballasts.
- For approved ISN and ISL ballasts, de-lamp is allowed for only 1 lamp so long as the ballast factor remains below 1.20 (for example, 4 lamp ballast can de-lamp to 3 lamps).
- Maximum mounting distance between lamp and ballast is 20 feet
- Not for use with other LED or fluorescent lamps on the same ballast.
- Not for use with magnetic ballasts.
- When using DUALescent™ as UL Type B wired directly to line voltage, to conform to UL, you MUST affix the luminaire warning sticker, included inside the packaging, to the fixture during installation. Should you install as UL Type A, please retain the luminaire warning stickers in a safe place for future use, should the ballast fail, and luminaire is converted to UL Type B.
- Best practice when using at UL Type B: cap off the remaining ballast wires should the ballast be left in the fixture after disconnecting.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during installation.
- Do not expose wiring to edges of sheet metal or other sharp objects.

- Make sure the lamps have the proper connections before restoring power.
- When converting a fixture from Type A to Type B and emergency back-up is desired, the installer would also have to change the existing emergency back-up to an inverter-type emergency driver.
- EM ballast that operates with fluorescent ballast must be disconnected from the lamp while DUALescent operates in type B mode.
- Suitable for dry and damp locations (cannot come in direct contact with water).

DOWNLOAD DATA

Spec Sheets and Product Documents		Document name
	Installation Guide	Installation Manual DUALescent T8 LED Family
	Product Family Spec Sheet	DUALescent LED T8 UL Type (A+B) Lamp Family

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.