

PRODUCT DATASHEET

LED AB CCT Select T8 12W 4' FG DIM 5CCT

DUALescent™ LED T8 5CCT Selectable | DUALescent T8 5CCT lamps replace fluorescents with ballast or line voltage flexibility



Areas of application

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

Product features

- Selectable CCTs: 3000/3500/4100/5000/6500K
- G13 LED T8 works with instant start, select rapid start ballasts, or 120–277V direct wire
- 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)
- No polarity; can be installed in either direction for DE wiring
- Operated as UL Type B, DUALescent can also be used to replace T12 lamps
- DLC listing allows for rebates in areas where applicable, saving on overall project cost
- Optimized glass optics
- Beam angle: 200°; Light emitting angle: 320°
- No warm-up time, instant-on with full light output and stable lamp-to-lamp color
- No UV emission
- Energy savings up to 58 %

TECHNICAL DATA

Additional product data

Base type	G13
Mercury content	0.0 mg
Ordering Abbreviation	LED12T8L48FGDIM8SC12AB
Abbrev. With Packaging Info.	LED12T8L48FGDIM8SC12AB 25/CS 1/SKU
SKU UPC	0046135416613
NAED	41661
Family Brand Name	DUALescent™
General Description	4FT DUALescent™ T8 UL Type A and B, Frosted Glass, 12W, 3000K/3500K/4000K/5000K/6500K CCT Selectable, 82 CRI, 1650 Lumens, 50,000 Hrs Life, Operates on ECG or directly on 120-277V, Single or Double ended wiring, dimmable.

Electrical data

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

Photometrical data

Lumens	1650 lm
Efficacy	138
Color Temperature/CCT	3000/3500/4000/5000/6500 K
Color Rendering Index (CRI)	82
Light color	830

Dimensions & Weight

Overall length	1214.00 mm
Diameter	1.02 in
Product weight	0.49 lb

Materials & Colors

Lamp Finish	Frosted
Bulb shape	T8
Bulb Glass Type	SOFT GLASS

Application & Mounting

Dimming	Yes
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Lifespan

Average Rated Life (hr)	50000
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Capabilities

Dimming	Yes
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Certificates & Standards

Certification Listing	RoHS / CSA / FCC
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Logistical data

SKU Qty	1
Case Qty	25
Case Length (in)	49.409
Case Width (in)	7.795
Case Depth (in)	7.402
Case Cube (ft)	1.650
Case Weight (lbs)	13.335
SKU UPC	0046135416613
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	Install Guide for DUALescent T8 LED 4ft 5CCT Select Lamps
	Product Family Spec Sheet	LED606 LEDVANCE LAMPS DUALescent™ LED T8 CCT SELECTABLE UL TYPE (A+B) LAMPS
Photometric and lighting design files		Document name
	IES file (IES)	IES files for 12W DUALescent T8 LED 4ft 5CCT Select Lamps

DISCLAIMER

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