

ASTRA: 20W LED Replacement for Twin T5/T8 Fluorescent Light Fixtures

At a Glance:

- DALI-2 Compatible
- Low Glare (UGR <19)
- Impressive Troffer Efficacy
- Pleasant, Uniform Lighting
- Flicker-Free
- Custom Dimensions Available
- Enhances Greenstar Rating
- Long Lifespan: >60K hours
- IES LM-79, LM-80 tested
- Emergency Lighting Option
- Standard Driver Option
- LoRa Wireless Option



ASTRA: Efficient, Low-Glare

ASTRA is an example of Fotenic customisation expertise to meet customers requirement, yet retaining all the important features of an excellent troffer.

It provides uniform lighting over 320 lux on a 3-5m high office ceiling, covering an average of 6.5 square meters per ASTRA. It offers the same brightness as other 30W LED troffers but consumes only 18-20W of power which translates into significant cost savings for customers.

The ASTRA with its low energy and glare delivers the best Greenstar rating and can directly replace a Twin-

T5/T8 4-ft troffer with only 20W or less. They are available in standard sizes for metric-tile mounting, with or without air vents, to seamlessly integrate the ASTRA into your space. For customers seeking tailored solutions, Fotenic can manufacture troffers in special dimensions that meet specific requirements.

ASTRA is built to last. With a lamp section lifespan exceeding 100,000 hours at an ambient temperature of 45°C, and a driver lifespan surpassing 50,000 hours, it offers exceptional longevity and reliability. It meets the industry standards of IES LM-80-081, providing you with peace of mind and superior performance.





ASTRA

TRA-D (DALI) Specification:

Efficacy: 116 lm/W @ 20W UGR: <16 Lighting Control: Dimmable Driver: BK-PUL018A-0450A

TRA-S (Std Driver) Specification:

Efficacy: 139 lm/W @ 20W UGR: <16 Driver: BK-PQL022-C450A

Common Specification:

Input power range: 12W*, 20-28W Beam angles: 67°(H), 79°(V) CRI: Ra > 95, R9 > 78, Color temperature: Cool, 5000K; Neutral, 4000K; Warm, 3000K; Amber, 2700K, Tunable, 2700-5500K** SCDM: 3 LLD(Av): 2.21% @ 12,000 hrs Diffuser: Polycarbonate Chromaticity shift (Av): 0.0012 @ 12,000 hrs Fitting Material: Zinc coated steel Fitting color: USA white IP rating: IP40 Input Voltage: 200-240Vac Power factor: >0.96 @ 20W Operating temperature: -20°C to 45°C Approved standards: SAA, C-Tick Life expectancy (L70): >60,000 hrs Warranty: 5 years Weight: 5-10kg 300-600mm wide 1200mm long Custom color: Yes Custom Dimensions: Yes

* Half size troffer ** Driver: BK-DGL042-1050AD

Lighting Control Hardware:

Wired or wireless DALI-2 Wireless LoRa with i3t Smart App Wireless range: 5km Hierachical Zone layers: 5 Groups per Zone: 255 Number of gateway: 1 (typical) Point-n-click Zone-Group configuration Ambient light correction

I3t and/or Funglow system:

Zone-Group dimming Scene setting Occupancy sensing Daylight tracking: 2700-5500K Access and Security Control Emergency Light monitoring RGB/CW daily setting (FunGlow) Battery operation (LoRa) Long-range data acquisition control (< 50 km)

ASTRA: TRAab-cdef-gh-i

a: Watts (e.g., TRA20... = 20W) b: DALI, Standard c: Cool, Neutral, Warm, Amber d: 1 (600mm), 2 (1200mm), 6 (1350mm), 8 (1400mm), 9 (1575mm), 0 Custom size e: 1 (300mm), 2 (400mm), 3 (600mm), 6 (450mm), 7 (485mm), 0 Custom size f: Air-vent distance: 1 (320mm), 2 (520mm), 3 (240mm), 0 Custom g: LoRa i3t, FunGlow, Blank h: PIR, Microwave, Combined PIR & Ambient sensor, Blank (no sensor) i: Emergency

Dimensions:



TRA20D Illustrative Photometric Chart





DALI Configuration:



DALI -LoRa Configuration:



