ASTRA TRA20D: 20W LED to replace existing T5/T8 fixture applying U.S DOE calculation methods

Best Greenstar Rating in its class

At a Glance:

• DALI-2 Compatible
• Low Glare (UGR <16)
• CRI 95
• Impressive 116lm/W Efficacy
• Pleasant, Uniform Lighting
• Flicker-Free Lighting
• Custom Dimensions Available
• Meet WELLS V2 standard
• Enhances Greenstar Rating
• Long Lifespan: >60K hours
• AS/NZS 60598.2.1 compliance
• 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.

TRA20D Specifications:
(Where x: colour temperature)

Input power: 20W
DALI-2 Driver: BK-DKL040-A1050AD, Flicker free
Color temperature: Cool (5000K); Neutral (4000K);
Warm (3000K), Amber (2700K)
Lighting Control: Dimmable
Efficacy: 116 lm/W @ 20W
Beam angles: 105°(H), 100°(V)
UGR: <16
CRI: Ra > 95,
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
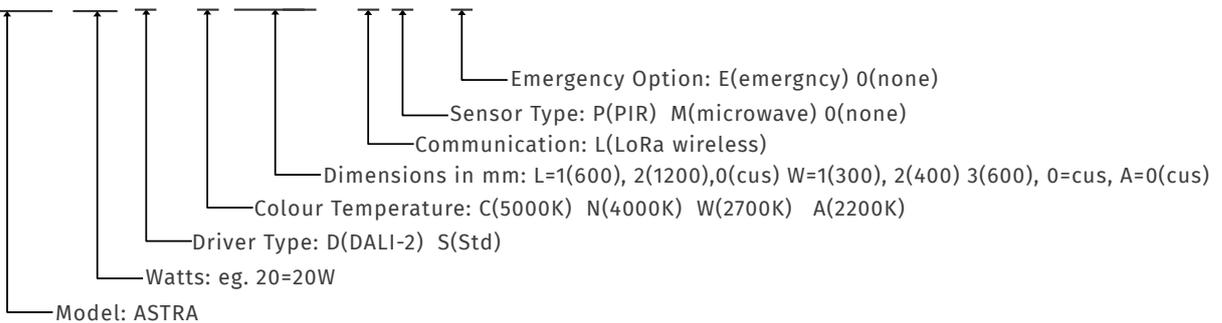Weight: 1200x300<5kg, 1200x600=<8kg
Custom color: Yes
Custom Dimensions: Yes

Lighting Control Hardware options:

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 User Interface:

Zone-Group dimming
Scene setting
Occupancy sensing
Daylight tracking: 2700-5500K
Access and Security Control
Emergency Light monitoring

T R A x x x - x x x x - x x - x

- Emergency Option: E(emergncy) 0(none)
- Sensor Type: P(PIR) M(microwave) 0(none)
- Communication: L(LoRa wireless)
- Dimensions in mm: L=1(600), 2(1200),0(cus) W=1(300), 2(400) 3(600), 0=cus, A=0(cus)
- Colour Temperature: C(5000K) N(4000K) W(2700K)   A(2200K)
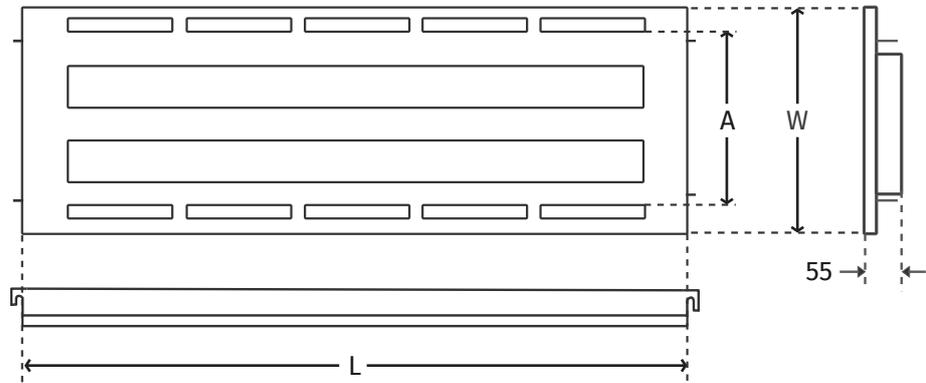- Driver Type: D(DALI-2) S(Std)
- Watts: eg. 20=20W
- Model: ASTRA

Examples:

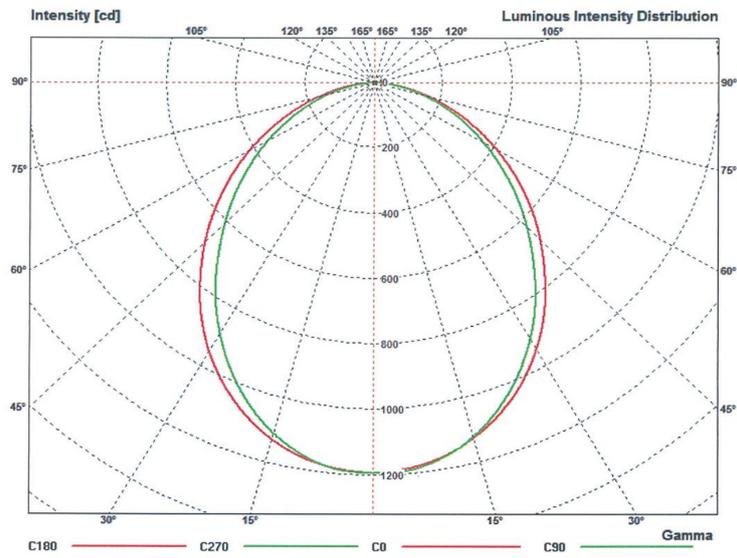TRA12D-N130 (Astra 12W,DALI-2,4000K,600x600mm,customised air-vents)

TRA20D-N230 (Astra 20W,DALI-2,4000K, 1200x600mm, customised dimensions)

Dimensions:

Customised Dimension Available

TRA20D Illustrative Photometric Chart

DALI Configuration:

2-wire DALI input
2-wire DALI output

1.5m flex with
AC plug

Cable to Lamp

DALI-2 Driver

DALI –LoRa Configuration:

1.5m flex with
AC plug

2-wire DALI input
2-wire DALI output

LoRa with External PIR
or Internal Microwave
Sensor

Cable to Lamp

DALI-2 Driver