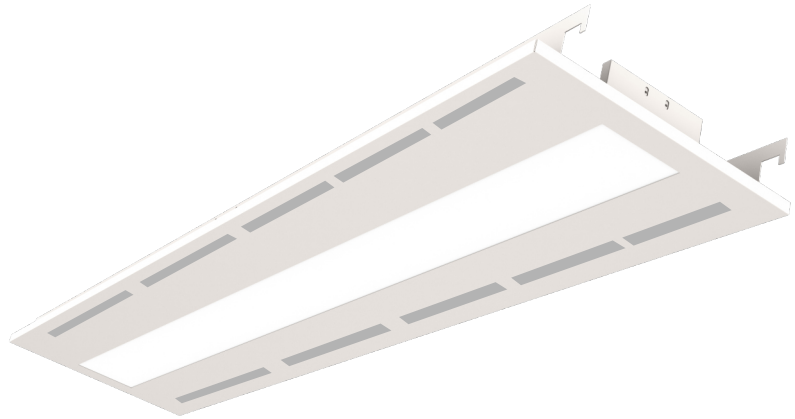


QUASAR TRQ20D: 20W LED to replace existing T5/T8 fixture applying U.S DOE calculation methods

Cost Effective Quality Troffer

At a Glance:

- DALI-2 Compatible
- Efficacy: 116 lm/W
- CRI 95+
- Low Glare (UGR <19)
- Impressive 116lm/W Efficacy
- Pleasant, Uniform Lighting
- Flicker-Free Lighting
- Custom Dimensions Available
- Enhances Greenstar Rating
- Long Lifespan: >60K hours
- AS/NZS 60598.2.1 compliance
- Emergency Lighting Option
- Standard Driver Option



QUASAR TRQ20D: Efficient, Low-Glare

QUASAR TRQ20D is a very efficient troffer designed to be cost effective yet delivering an even lighting for customers that are budget conscious.

It provides uniform lighting over 320 lux on a 2.4-5m high office ceiling, covering an average of 6.5 sq meters per QUASAR. 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 QUASAR 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 using the U.S. Department of Energy calculation methods for ultra-

high quality luminaires. They are available in standard sizes for metric-tile mounting, with or without air vents, to seamlessly integrate the QUASAR into your space. For customers seeking tailored solutions, Fotonic can manufacture troffers in special dimensions that meet specific requirements.

QUASAR is built to last. With a lamp section lifespan exceeding 60,000 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.

TRQ20D Specifications:

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: 67°(H), 79°(V)
UGR: <19
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

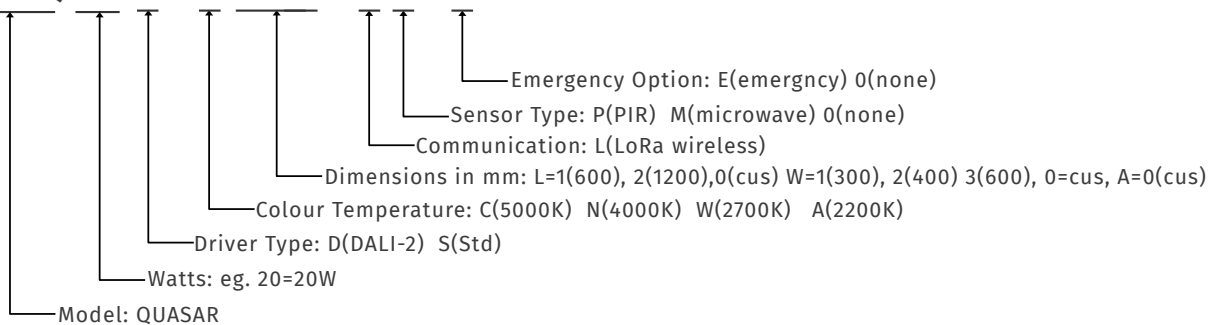
Lighting Control Hardware options:

Wired or wireless DALI-2
Wireless LoRa with i3t Smart App
Wireless range: 5km
Hierarchical 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

TRQxxx-xxxx-xx-x

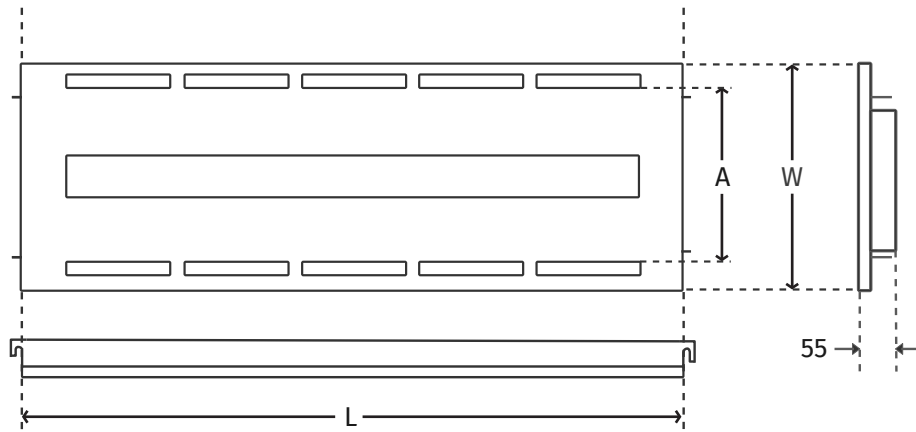


Example:

TRQ12D-N130 (Quasar 12W, DALI-2, 4000K, 600x600mm, customised air-vents)

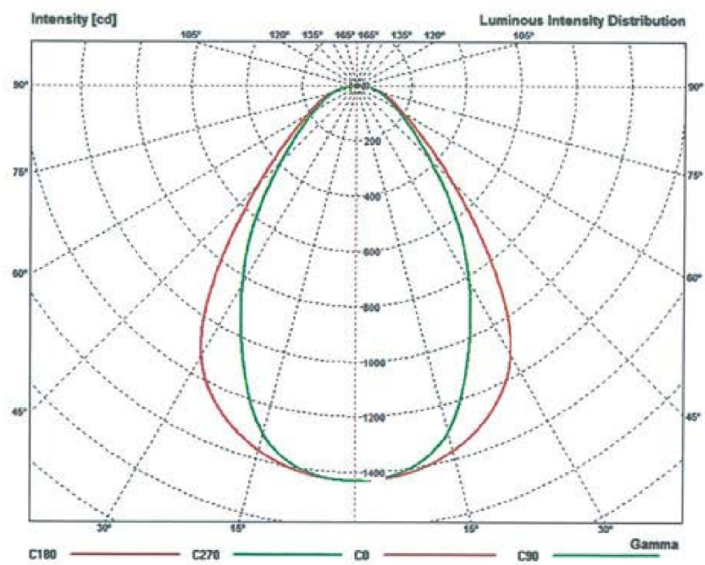
TRQ20D-N230 (Quasar 20W, DALI-2, 4000K, 1200x600mm, customised dimensions)

Dimensions:



Customised Dimension Available

TRQ20D Illustrative Photometric Chart



DALI Configuration:



DALI -LoRa Configuration:

