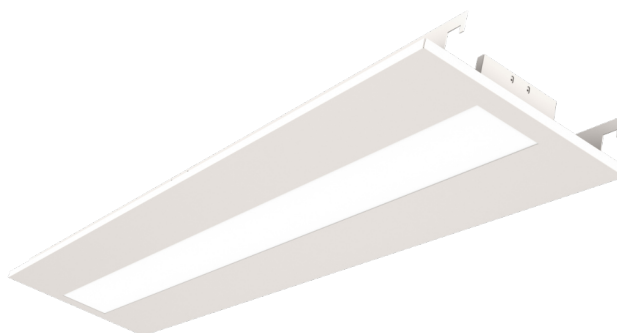


QUASAR: 20W LED Replacement for Twin T5/T8 Fluorescent Light Fixtures

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



QUASAR: Efficient, Low-Glare

QUASAR 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 3-5m high office ceiling, covering an average of 6.5 square 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. 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 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.

QUASAR

TRQ-D (DALI) Specification:

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

TRQ-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
Hierarchical Zone layers: 5
Groups per Zone: 255
Number of gateway: 1 (typical)
Point-n-click Zone-Group configuration
Ambient light correction

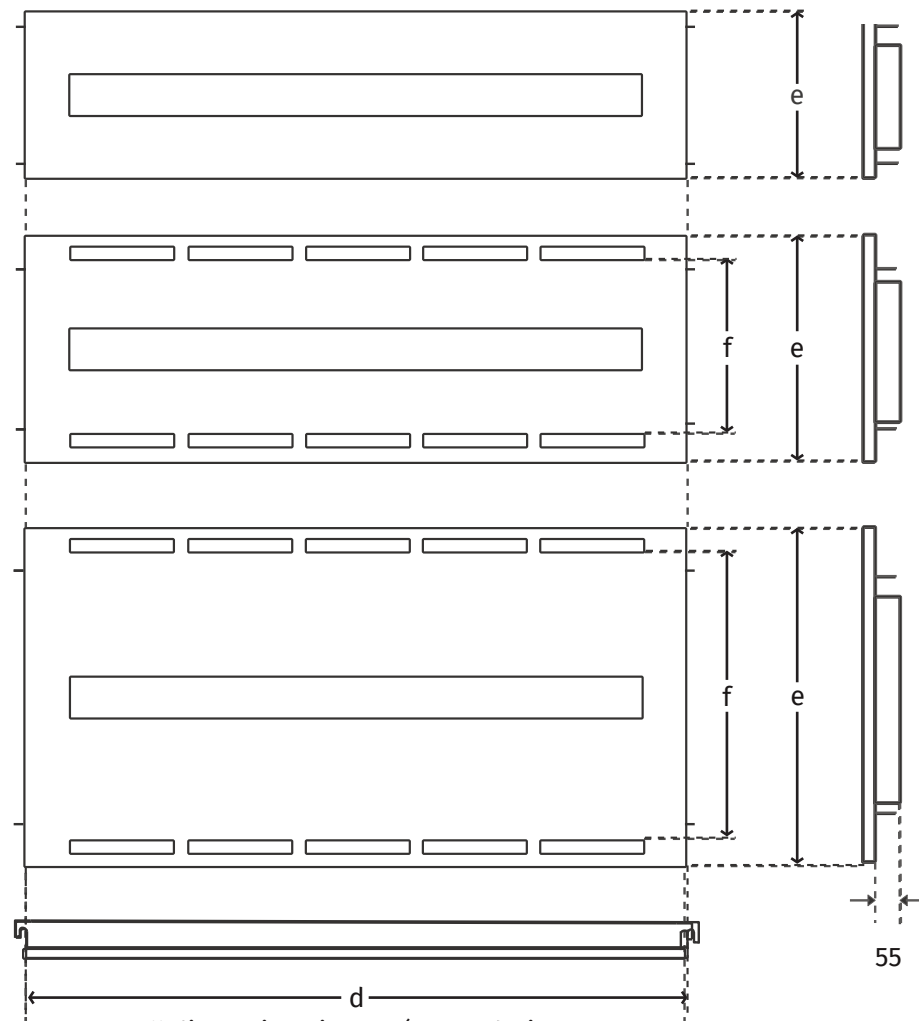
i3t and/or FunGlow system:

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)

QUASAR: TRQab-cdef-gh-i

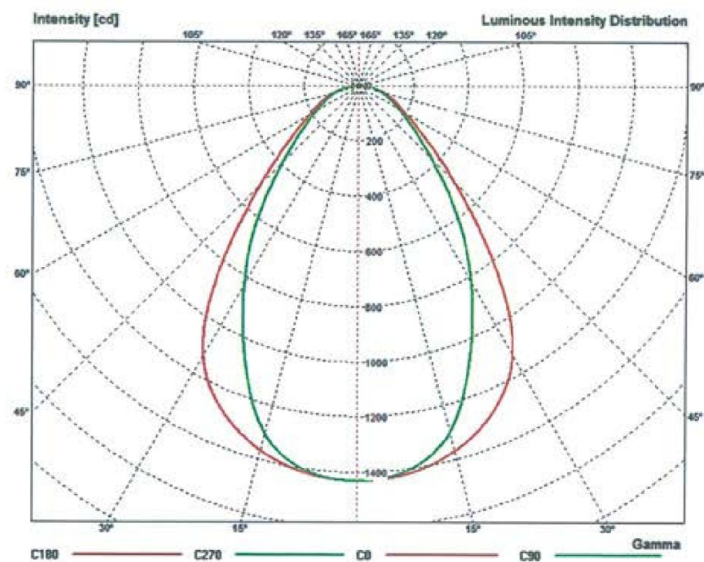
a: Watts (e.g., TRQ**20**... = 20W)
b: **D**ALI, **S**tandard
c: **C**ool, **N**eutral, **W**arm, **A**MBER
d: **1** (600mm), **2** (1200mm), **6** (1350mm),
8 (1400mm), **9** (1575mm), **0** Custom size
e: **1** (300mm), **2** (400mm), **3** (600mm),
6 (450mm), **7** (485mm), **0** Custom size
f: Air-vent distance: **1** (320mm), **2** (520mm),
3 (240mm), **0** Custom
g: **L**oRa i3t, **F**unGlow, **B**lank
h: **P**IR, **M**icrowave, **C**ombined PIR &
Ambient sensor, **B**lank (no sensor)
i: **E**mergency

Dimensions:



All dimensions in mm (See ordering information).
Custom dimensions available

TRQ20D Illustrative Photometric Chart



DALI Configuration:



DALI -LoRa Configuration:

