

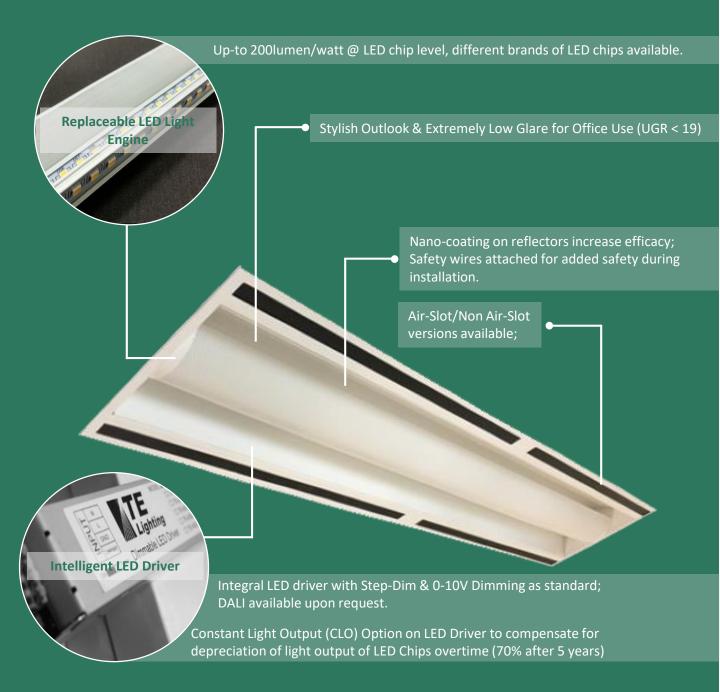
Direct-Indirect LED Troffer

Developed to replace T8 or T5 fluorescent lamps with LED rendering over 40% energy saving and much reduced maintenance work.

The TE Lighting LED Troffer is extremely pleasing in appearance and yet energy efficient. The lights from the LED light engine are reflected mostly downwards from the nano-coated reflector surfaces with the rest directly diffused through a perforated curved profile. The result is a stylish, glare-free luminaire.



Direct-Indirect LED Troffer - Features



Other Features:

- Luminaire constructed with heavier gauge steel to resist bending during installation and service life of the troffer;
- Thick enamel paint for a long lasting finish, and to protect luminaire from paint chips and rusting;
- Robust LED Light Engine & Driver System with 5 years of warranty on parts;
- LED Light Engine with 3 lighting surfaces. 2 indirect and 1 direct lighting on specially designed extruded aluminum profile;
- · Excellent heat dissipation for LED Chips;
- Custom-Made dimensions & color temperatures available upon request;
- Other brands of LED Chips available (CREE, Nichia, Lumileds, etc.)

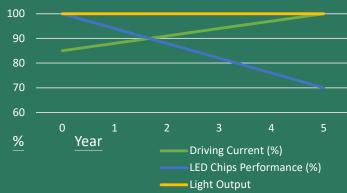


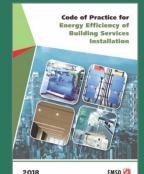
Technical Information

Constant Light Output

Constant Light Output (CLO) Option is available on LED Driver to provide automatic upward adjustments of driving current along with time, such that the resultant light output remains constant throughout the life of the light engine.







EMSD Building Energy Code 2018

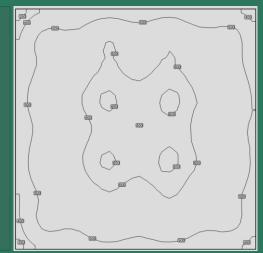
This Code of Practice titled "Code of Practice for Energy Efficiency of Building Services Installation", hereinafter referred as the "Building Energy Code" or "BEC", is issued under Part 9 of the Buildings Energy Efficiency Ordinance, Chapter 610 (hereinafter referred as "the Ordinance").

BEC sets out the technical guidance and details in respect of the minimum energy efficiency requirements governing the building services installations defined in the Ordinance.

Table 5.4: Lighting Power Density and Automatic Lighting Control for Various Types of Space

| Type of Space | Max. LPD (W/m²) | Type of Space | Max. LPD (W/m²) |
|-------------------------------|--------------------|---|--------------------|
| Plant / Machine / Switch Room | 10 | Server Room / Hub Room | 10 |
| Public Circulation Area | 13 | Staircase | 7 |
| Loading & Unloading Area | 8 | Toilet / Washroom / Shower Room | 11 |
| Retail | 16 | Car Park | 5 |
| Classroom / Training Room | 12 | Office, Internal floor area above 200m ² | 9 |
| Lift Lobby | 10 | Corridor | 8 |





^{*}Please consult our sales engineers for details.



Specifications

Electrical

Input Voltage: AC 220V – 240VOutput Power: Up to 45W

• Frequency: 50 / 60 Hz

• Power Factor: 0.95

Optical & LED Driver

Color Temperature: 3000K/3500K/4000K/5000K

• Lumen Output at LED Chip Level: > 200 lm/W

• Delivered Lumen: ~ 100 lm/W*

• High Efficiency LED Chips Available¹

• Total Harmonic Distortion: < 20%

· Anti-Flickering Device Built-In

• Step dimming (Standard) - Dimmed to 30% upon receipt of an ON-OFF signal

• 0-10V dimming (Standard) - External dimming signal is required

DALI dimming (Optional) - External dimming signal is required

Mechanical

- · Mounting: Recessed Ceiling or Surface Mounted
- · Quick Release Connectors on LED Engine
- Air Handling Version Available for Connections to Air-Boots and/or Return Air²
- Warranty: "5 Years Guarantee" We Standby our product for both the Light Engine & LED Driver

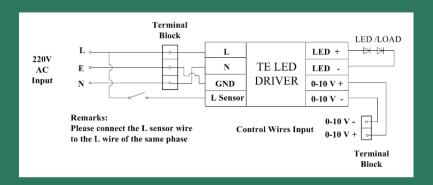
*Delivered lumens depends on color temperature and the use of options

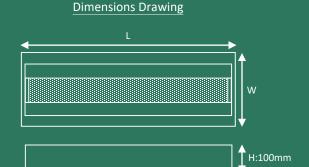
Ordering Information

Example: TETRF-03-12-AH-HE-45W-30K

| Product | Width | Length | Air Handling (2) | High Efficiency (1) | Wattage (Lumen Output) | Color Temperature |
|---------|------------|-------------|------------------|------------------------|-------------------------|-------------------------|
| TETRF | 03 (300mm) | 06 (600mm) | No Code | No Code | 16W (1600 lumens) | 3000K |
| | 06 (600mm) | 12 (1200mm) | АН | HE | 22.5W (2250 lumens) | 3500K |
| | | | | | 32W (3200 lumens) | 4000K |
| | | | | | 45W (4500 lumens) | 5000K |
| | | | | | Others - Please Specify | Others - Please Specify |

Circuit Diagram





Regulatory Qualifications



TE LED Troffer Certifications – Safety

EN 60598-2-2:2012 EN 60598-1:2015





TE LED Troffer Certifications - EMC

EN 55015:2013+A1:2015 EN 61000-3-2:2014, EN 61000-3-3:2013 EN 61547:2009 EN61000-4-2:2009, EN 61000-4-3:2006+A1:2008+A2:2010 EN 61000-4-4:2012, EN 61000-4-5:2014 EN 61000-4-6:2014, EN 61000-4-8:2010, EN 61000-4-11:2004





TE LED Troffer Certifications - LED Driver

EN 55015:2013+A1:2015 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 61547:2009

EN 61347-1:2015, EN 61347-2-13:2014

EN 62493:2015





PolyU

TE LED Troffer Certifications - Fire

BS 5266 Part 1:2011 BS EN 60598-2-22:2014 Regulation PPA / 104(A) of Fire Service Department







Applications with Dimming Controls



