

# LED T8 Ultra Glass



DATA SHEET

## Product information

The Tungsram LED T8 Ultra Glass range offers a safe, reliable and energy saving retrofit solution to 18W, 36W and 58W fluorescent T8 lamps. These highly efficient LED T8 tubes have an exceptionally high lumen output combined with 50,000-hour life span. Available in 60cm, 120cm and 150cm with G13 end cap, Tungsram LED T8 Ultra Glass tubes can be quickly fitted as a replacement into luminaires operating on electro-magnetic control gear or directly connected to mains (for further details see installation guide).

## Features

- High Output, up to 3650 Lumens
- High Efficacy, up to 159 Lumens/Watt
- 50 000 hours lifetime, L70/B50
- High Power Factor, > 0.9
- Instant on, < 0.5 sec
- Low Flicker
- Wide Ambient Temperature range, -30C/+40C

## Benefits

- Uniformly diffused light for offices, retailers, schools, corridors, car parks
- Longer maintenance cycle, compared to Fluorescent lighting
- Wide light distribution from narrow PCB in Glass tube
- Convenient retro-fit on Electro-magnetic ballast
- Improved energy savings up to 60% (AC-connected LED vs LFL on EM ballast)
- Environmentally-friendly, no UV and no Mercury content

## IEC Standards

EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting
EN 61000-3-2	Limits for harmonic current emissions (equipment rated current $\leq 16A$ )
EN 61000-3-3	Limitation of voltage fluctuations and flicker in low voltage supply systems (equipment rated current $\leq 16A$ )
EN 61547	Specification for equipment for general lighting purposes. EMC Immunity requirements
EN 62493:2010	Assessment of lighting equipment related to human exposure to electromagnetic field
IEC 62471	Photobiological safety of lamps and lamp systems
IEC 60061-1	Lamp Caps
IEC/EN 62776	Double-capped LED lamps designed to retrofit linear fluorescent lamps – Safety specifications

## Application areas



Hospitality



Industrial



Car park



Office

## Specification summary

Rated Wattage (W)	Length (mm)	CCT (K)	Cap	Product Description	Rated Luminous flux (lm)	Life L70/B50 (hrs)	CRI (Ra)	Energy Efficiency Class	Pack Qty (pcs)	Product Code
8	600	4000	G13	LEDT8 UG 0.6m 8W 840	1150	50,000	80<	A++	10	93098369
8	600	6500	G13	LEDT8 UG 0.6m 8W 865	1150	50,000	80<	A++	10	93098370
15	1200	4000	G13	LEDT8 UG 1.2m 15W 840	2385	50,000	80<	A++	10	93098372
15	1200	6500	G13	LEDT8 UG 1.2m 15W 865	2385	50,000	80<	A++	10	93098373
23.5	1500	4000	G13	LEDT8 UG 1.5m 23.5W 840	3650	50,000	80<	A++	10	93098375
23.5	1500	6500	G13	LEDT8 UG 1.5m 23.5W 865	3650	50,000	80<	A++	10	93098376

## Specifications

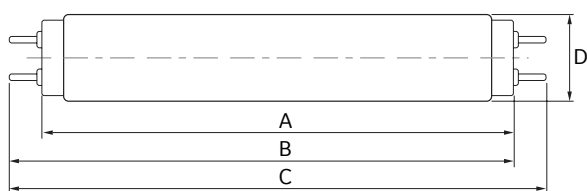
<b>Nominal Voltage</b>	220-240V
<b>Operating frequency</b>	50/60Hz
<b>Power factor</b>	≥ 0,90
<b>Operating temperature range</b>	-30°C - +40°C
<b>Starting time</b>	< 0,5 s
<b>Lumen maintenance at B50</b>	70%
<b>Dimmable</b>	No
<b>Use in emergency application</b>	No
<b>Colour consistency</b>	≤ 6 steps SCDM
<b>Beam angle</b>	200°
<b>Switching cycle</b>	50 000

## Operation and maintenance

Store and use the lamps the same way as standard fluorescent lamps.

- Lamps should be kept free from contamination.
- Switch off mains supply before installing/removing lamp.
- Good condition of the lamp-holder contacts is important to ensure proper operation of lamp.
- For luminaires with electro-magnetic control gear ensure the existing Fluorescent Starter is replaced with LED Dummy Starter (included in pack) before installing LED T8 Tube
- Not suitable for direct replacement of linear fluorescent tubes in luminaires where lamps are connected in series
- Presence of power shifting capacitor in the system may significantly lower the power factor of the system
- For direct wire please check the provided installation instructions
- Use in fully enclosed fixtures may affect life performance.

## Dimensions (mm)



Maximum overall length (mm)	0.6m/ 2ft	1.2m/ 4ft	1.5m/ 5ft
A	590	1200	1500
B	597	1207	1507
C	604	1214	1514
D	28	28	28
<b>Net weight (g)</b>	130	230	280