

Aura OPTI T8 Long Life G3

A LED retrofit replacing T8 fluorescent in luminaires with magnetic ballasts



- High efficacy – up to 157 lm/W
- High light output – up to 4100 lm
- Colour rendering ≥ 80
- Reduces CO₂ emissions and maintenance costs
- 5 years guarantee

Ideal for:

- Refrigeration
- Offices
- Supermarkets
- Retail
- Signs

Aura OptiT8 Long Life G3 is a highly efficient LED T8 retrofit light source that delivers excellent energy efficiency, high quality of light, and has a rated system lifetime of 60 000 hours. It is intended to be used as a quick solution to save energy in existing luminaire installations replacing T8 fluorescent tubes operated by magnetic ballasts. With minimal effort it is possible to safely upgrade installations to LED technology. Aura OptiT8 Long Life G3 gives you energy saving lighting today without expensive installation costs.

Aura OptiT8 Long Life G3 is especially suitable for cold applications or applications with high switching frequencies. It offers outstanding thermal and electrical design features making it a reliable product designed for Long Life.

Aura OptiT8 Long Life G3 – when you want an easy installation and change to high quality LED.

Overview

Aura OPTI T8 Long Life G3 is a replaceable T8 retrofit LED light source with integrated driver and heat sink suited to replace fluorescent T8 tubes operated by magnetic ballasts in existing luminaire installations.

Applications

Aura OPTI T8 Long Life G3 is ideal for customers who wish to reduce energy costs with minimal effort. It is intended for direct replacement of fluorescent tubes in luminaires operated today with magnetic ballasts. It is suitable for lighting in offices, schools, public buildings, supermarkets, parking garages and anywhere where fluorescent lighting is currently used. It is now possible to quickly save energy while at the same time keeping a high quality of light.

Lifetime

The rated system lifetime L70B10 (i.e. 90% of light sources still have at least 70% of initial lumen output) for Aura OPTI T8 Long Life G3 is 50 000 hours (Ta 25°C).

Long Life Technology

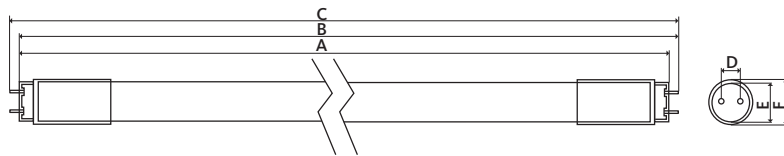
Aura OPTI T8 Long Life G3 tube is developed to provide highly efficient light output, with a reliable thermal and electrical design. Inside the tube is a reliable LED engine, designed for Long Life and high quality of light throughout the lifetime. Driver components and LED junction temperature are well below maximum stated levels to ensure high lumen maintenance.

RATED LAMP LIFETIME (Ta) 25°C	NOMINAL LIFETIME L70B10 (Ta) 25°C
60 000 h	50 000 h



Hazard		RGO
Actinic UV		
Near UV		
Blue light		
Retinal thermal		
Retinal thermal, weak visual stimulus		
IR radiation, eye		
Classification group		

Dimensions



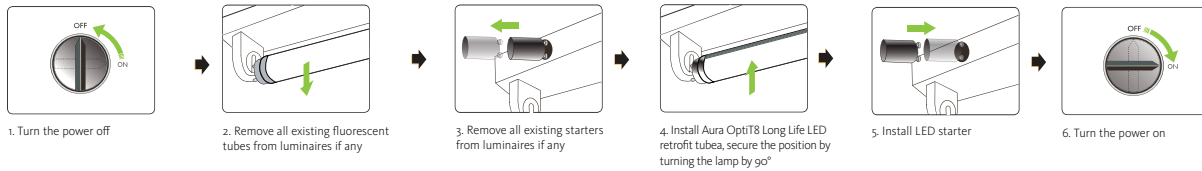
TYPE	A	B	C	D	E	F
600 mm	590	595,7	604	12,7	25,6	26,5
1200 mm	1199,4*	1205,3*	1213,6*	12,7	25,6	26,5
1500 mm	1499,5*	1505,9*	154,2*	12,7	25,6	26,5

*max values, in accordance with T8 standard IEC60081.

Voltage	200-240 AC 50/60 Hz
Colour rendering index	≥ 80
Initial colour accuracy	3 SDCM
Beam angle	200°
Ambient temperature	-20° - + 50°
Pf	> 0.9
Type of protection	IP20
Overvoltage protection	6kV
ESD protection	Contact 4kV/Air 8kV
Cap base	G13
Dimmable	No
Weight	112 g (600 mm)
	217 g (1200 mm)
	264 g (1500 mm)
Tube and cap material	Glass+PET
LLMF - end nominal lifetime	70%
Starting time (seconds)	0,5 (max)
Warm-up time to 60% light output	Instant full light
Suitable for accent lighting	No
Switching cycles	> 200 000
Certificate	CE, ENEC

»Aura OPTI T8 Long Life G3 enables quick energy savings in existing installations«

Easy installation Aura OPTI T8 Long Life G3



NB: If a power factor compensation capacitor is installed in the luminaire it may remain but it lowers the power factor. See below table.

NB: Not usable in luminaires with serial lamp connection i.e. more than one tube on one magnetic ballast. In such case luminaire needs to be rewired to parallel lamp connection. NB: It is possible to change the order of step four and five above.

Recommended number of tubes per fuse

	CCG + Capacitor		CCG without Capacity	
	10A	16A	10A	16A
0,6 m – 7,5 W	120	192	200	320
1,2 m – 14 W	66	106	111	177
1,2 m – 17 W	53	85	88	142
1,5 m – 21 W	45	72	75	120
1,5 m – 27 W	35	56	58	94

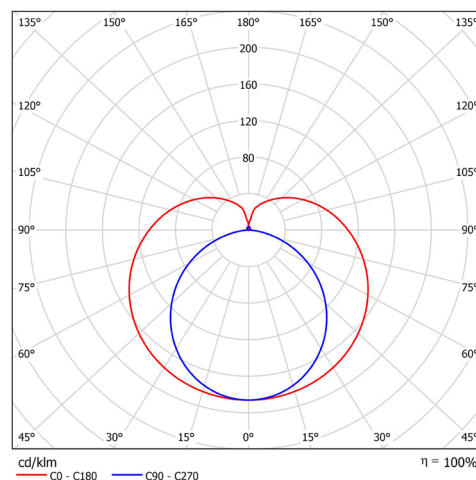
Technical Information

Aura OPTI T8 Long Life G3 provides high efficacy, up to 157 lm/W with a fluorescent look to the tube. The quality of light is high, with colour rendering of more than 80 and with an initial chromaticity tolerance of maximum 3 SDCM. It is currently available in 3000K, 4000K, 5000K and 6500K.

Long Life Guarantee

The Aura OPTI T8 Long Life G3 is developed and manufactured under strict quality control processes. Aura Light offers a 5-year guarantee for Aura OPTI T8 Long Life G3. The installations must comply with the specified max ambient temperatures inside luminaire installations and the user must follow the installation instructions. For more detailed information on our Long Life guarantees see our website or contact your Aura Light-representative.

Light Distribution Aura OPTI T8 Long Life G3



Aura OPTI T8 Long Life G3 | Technical specifications

ARTICLE NO.	TYPE	COLOUR TEMP. (K)	POWER CONSUMPTION (W)	TYPICAL LUMINOUS FLUX* (WARM LED)	EFFICACY (lm/W)	LENGTH WITHOUT PINS (mm)	UNITS/PACK (pcs)	ENERGY CLASS	FLUOROCENT LAMP** (W)
Aura OPTI T8 Long Life G3									
579903	830 diffused	3000	7,5	1050	140	600	30	A++	18
579904	840 diffused	4000	7,5	1150	153	600	30	A++	18
579905	850 diffused	5000	7,5	1150	153	600	30	A++	18
579913	830 diffused	3000	14	2000	143	1200	30	A++	36
579914	840 diffused	4000	14	2200	157	1200	30	A++	36
579915	850 diffused	5000	14	2200	157	1200	30	A++	36
579916	865 diffused	6500	14	2200	157	1200	30	A++	36
579933	830 diffused	3000	21	3000	143	1500	30	A++	58
579934	840 diffused	4000	21	3200	152	1500	30	A++	58
579935	850 diffused	5000	21	3200	152	1500	30	A++	58
579936	865 diffused	6500	21	3200	152	1500	30	A++	58
Aura OPTI T8 Long Life G3 HO									
579923	830 diffused	3000	17	2400	141	1200	30	A++	36
579924	840 diffused	4000	17	2600	153	1200	30	A++	36
579925	850 diffused	5000	17	2600	153	1200	30	A++	36
579953	830 diffused	3000	27	3800	141	1500	30	A++	58
579954	840 diffused	4000	27	4100	152	1500	30	A++	58
579955	850 diffused	5000	27	4100	152	1500	30	A++	58

*Tolerance level +/- 8%. **The corresponding fluorescent lamp power. LED dummy starter included with each tube