

- Sensing (input)
- Signal processing
- Safety management
- Switching (output)

Art. Nr.: EFO 1UT T5 3000-5000

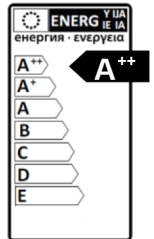


WATTAGE
11.5W

LUMINOUS FLUX
1820~1935lm

LAMP EFFICACY
**157~166
lm/W**

ENERGY CLASS
A++



DESCRIPTION

- Renewable and Ultra long-life LEDT5 glass lamp with 95% recyclability based on “Eco-Design” materials
- 1%~100% dimmable (DALI)
- Instantaneous ignition (less than 0.1sec.) and unlimited switching cycles
- Tunable white light 3000K~5000K

SAFETY & PROTECTION

ELECTRICAL
SELV
<60VDC

PHOTO-BIOLOGICAL
CLASS 0
EXEMPT
EN62471

INGRESS PROTECTION
IP66
DUST FLOODING
EN60529

FLAMMABILITY
850 °C
GLOW WIRE
IEC60695-2-12

CORROSIVE GAS
METHOD 4
SO2/NO2/H2S/CL2
EN60068-2-60

LIGHT QUALITY

CCT
**3000K~
5000K**

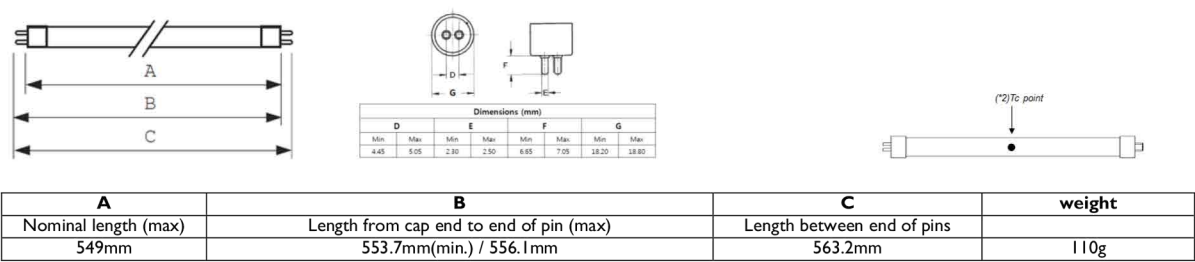
COLOUR CONSISTENCY
SDCM 3
SERVICE LIFETIME

COLOUR RENDERING INDEX
Ra 83
STANDARD SPECTRUM

SERVICE LIFETIME
70,000 Hours
L80B10

BEAM ANGLE
120 °

DIMENSIONS



LIGHT DISTRUBITION & SPECTRAL POWER DISTRIBUTION

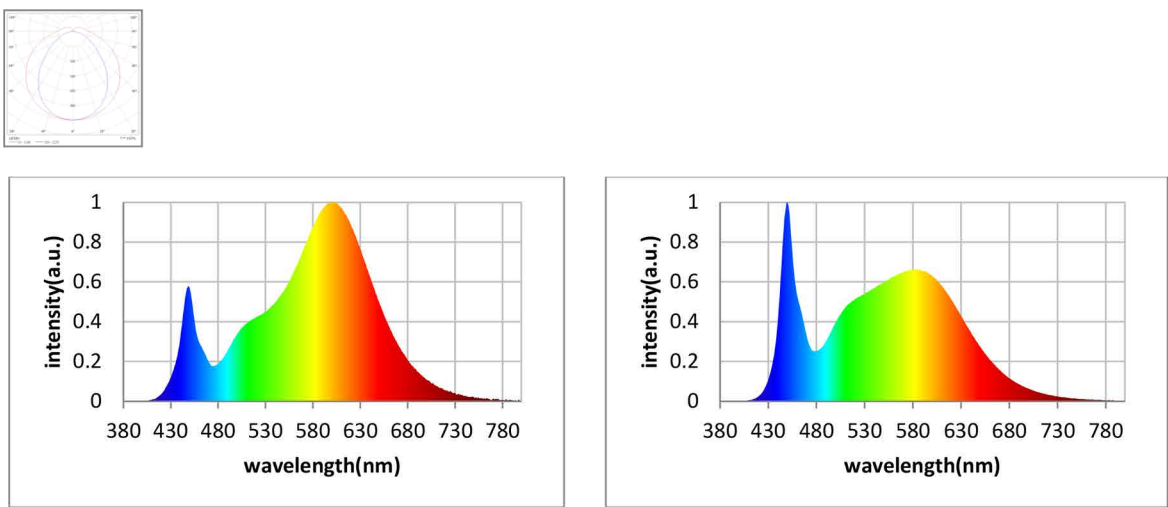


PHOTO-BIOLOGICAL (EYE) SAFETY

Actinic UV		RG 0 Exempt
Near UV		RG 0 Exempt
Retinal blue light	500Lux method	RG 0 Exempt
Retinal blue light	200mm method	RG 0 Exempt
Retinal thermal		RG 0 Exempt
Infrared		RG 0 Exempt

RECYCLABILITY

Glass tube	50%
Aluminium heat-sink	35%
Cap & connector	2%
Printed circuit board	11%
LED packages	2%



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3 | SPECIFICATION

MAXIMUM RATINGS

Operating temperature	-40 °C ~ +50 °C	
Storage temperature	-40 °C ~ +85 °C	
Lamp rated Tc temperature	+85 °C	Tc point indicated in drawing
Lamp permissible forward voltage	60VDC	
Lamp permissible constant current	350mA	

ELECTRICAL CHARACTERISTICS

Lamp wattage	11.5W	Excluding LED Driver loss
Lamp forward voltage	33VDC	SELV compatible
Lamp current	350mA	Constant current

Note: wattage tolerance +/-7%, luminous flux tolerance +/-10%

INSTRUCTIONS

EFO LEDT5 lamp is not a retrofit Lamp for FLT8 or FLT5 (fluorescent) tube straight replacement. LEDT5 lamp requires external LED driver(s). SELV equiv. constant current LED driver must be used. Parallel wiring of the lamps is not permissible. Series wiring of the lamps is possible as long as total forward voltage does not exceed the maximum permissible output voltage of the LED driver. LED driver should be tested for its compatibility with the lamp and qualified according to norms supplier recommendations. If in doubt, the customer should contact the relevant customer service.

SELV equivalent constant current LED driver should be used for multiple lamp designs.

Conformity to the following regulations applicable to LED drivers is mandatory:

EN61347-1, EN61347-2-13, EN62384, EN6154, EN55015, EN62386-102

IEC 60068-2-6, IEC 60068-2-2 and IEC 60068-2-29

COMPLIANCE TO IEC NORMS & EU/ROHS

All measurements were conducted according to the following norm:

. IEC/EN 61195, IEC/EN 62031, IEC/EN 62717

The product is compliant with European Directive 2002/95/EC of January 2003 on restriction of the use of listed Hazardous Substances in Electrical & Electronic Equipment (RoHS)

PRECAUTIONS

- . Store in its original packing until assembly in the luminaire or installation day on-site
- . Maintain in its original carton box within storage temperature between -40 °C and +85 °C
- . Handle with care during assembly into the luminaire and on-site installation in accordance with supplier's mounting instructions
- . Switch off main power supply when mounting the lamps in the luminaire on-site
- . Make sure the electrically active part of the lamp is connected to the wired cap in the luminaire
- . Designing and specifying the driving electronics is the full responsibility of the luminaire maker
- . Voltage drive operation is not permissible
- . Do not exceed maximum ratings
- . Luminaire makers are urged to conform to the international standards of luminaire design: IEC 60598
- . Failure to conform to above listed norms, instructions and precautions will render the warranty null & void
- . The warranty is void if the product is not used for the purpose for which it is designed
- . Glass breakage during installation, use and maintenance is not covered by warranty
- . Lamps should be disposed according to national disposal & recycling regulations

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4 | SPECIFICATION

REDUCE, RE-USE, RECYCLE



EFO LEDT5 lamp was designed in line with the principles of sustainability to deliver the best light quality and re-usability.

The frosted glass tube delivers a pleasant and comfortable light while providing a durable and stable protection for the LED emitters and peripheral electronic devices assembled on the printed circuit board.

LAMPHOLDERS



G5 lamp-holders from European reputable makers should be utilised for electrical connection and mechanical fixation.