

## I. PRODUCT FEATURES

<b>Description</b>	LED T5 diffused glass lamp
<b>Beam Angle</b>	130 °
<b>Correlated Colour Temperature (CCT)</b>	4000K
<b>Colour Consistency over useful lifetime</b>	3 SDCM
<b>Colour Rendering Index (CRI)</b>	83
<b>Lamp Initial Flux</b>	6,150 lm
<b>Lamp wattage</b>	40 W
<b>Energy Efficiency Rating</b>	A++
<b>Exchangeability</b>	Standard G5 cap base
<b>Photo-biological safety</b>	RG 0 (Exempt)
<b>Ingress Protection</b>	IP65
<b>Corrosion Resistance</b>	Impermeable to corrosive gas and vapours
<b>Protection Class</b>	III, SELV compliant
<b>Glow Wire Flammability Index</b>	850 °C
<b>Useful Lifetime (L80B10) according to TM-21 protocol</b>	50,000 hours
<b>Control Gear</b>	External certified constant current LED Driver
<b>Controllability</b>	Fully dimmable down to 1% (1-10V, DALI)
<b>Ignition Time</b>	Instant
<b>Switching cycles</b>	Unlimited
<b>Certification &amp; approvals</b>	CE, KEMA (pending)

Efora LED is not a retrofit LED tube but an innovative exchangeable light source delivering excellent energy efficiency and highest durability. The diffused glass has a unique matt surface ensuring minimal glare and a pleasing fluorescent-like aspect. Glass provides maximal protection against ingress of corrosive gases and vapours that causes premature aging or drastic failure of LED semiconductor devices and other electronic components.

## 2. MAXIMUM RATINGS

Items	Symbol	Value
Operating Temperature	Ta	-30 °C ~ +45 °C
Storage Temperature	Ts	-40 °C ~ +80 °C
Rated Tc Temperature *	Tc	+ 75 °C
Permissible Forward Voltage	Vf	50 VDC

\*) Tc point is located in the middle of the back side of the lamp

## 3. OPTICAL CHARACTERISTICS

Items	Value
Colour Code	840
Colour Temperature	4000K
Colour Rendering Index (CRI)	83
Colour Consistency (over useful lifetime)	3 SDCM
Luminous Flux initial lumen	6,150 lm
Luminous Flux stabilized lumen*	5,800 lm
Efficacy initial lumen	155 lm/W
Efficacy stabilized lumen*	145 lm/W

\*) After 25 minutes of thermal balance

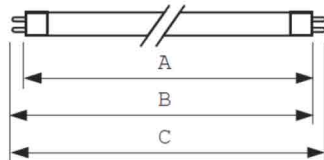
Luminous Flux tolerance: +/-10%

## 4. ELECTRICAL CHARACTERISTICS

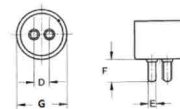
Items	Value
Lamp Voltage	38 VDC
Lamp Current	1,050 mA
Lamp Wattage	40 W

Forward Voltage & Wattage tolerance: +/- 10%

## 5. DIMENSIONAL DRAWINGS



Dimensions (mm)				Weight (g)
A	B		C	
Max	Min	Max	Max	
1449.0	1453.7	1456.1	1463.2	312

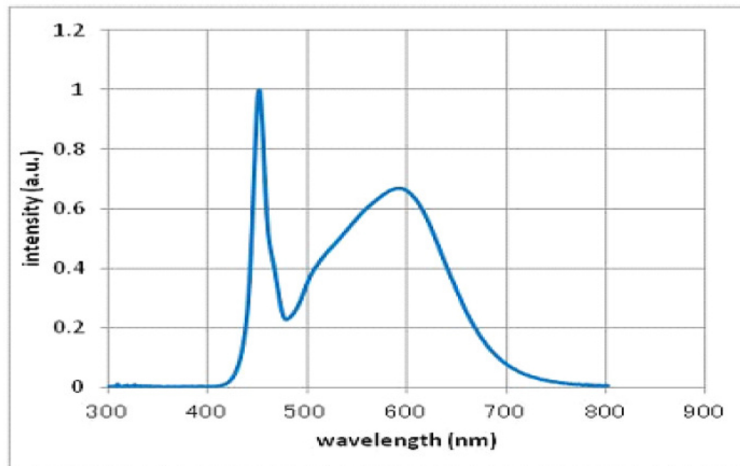


Dimensions (mm)							
D		E		F		G	
Min	Max	Min	Max	Min	Max	Min	Max
4.45	5.05	2.30	2.50	6.65	7.05	18.20	18.80

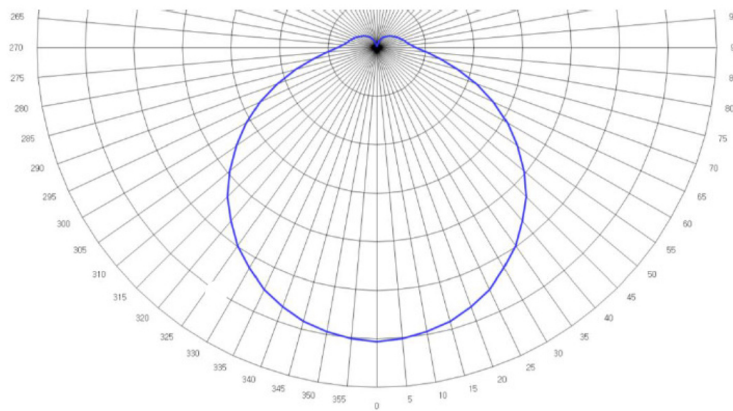
Mechanical dimensions tolerance: +/- 0.5mm

## 6. SPECTRAL DISTRIBUTION & LIGHT DISTRIBUTION

- Spectral Distribution



- Light distribution



## 7. PHOTOBIOLOGICAL SAFETY DATA

Items	Classification (Risk Group)
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

*Photo-biological hazards evaluated on the basis of European norm: EN 62471*

As a result of laboratory evaluation, no specific safety measures are required. E-LED is an intrinsically eye-safe light source.

## 8. DRIVING INSTRUCTIONS

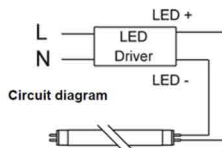
LED Driver type	Constant Current
External Constant Current LED Driver	1,050mA

*Exceeding recommended driving conditions may cause premature aging*

Efora LEDT5 lamp is not a retrofit Lamp for FLT8 or FLT5 (fluorescent) tube replacement applications.

An external constant current LED driver complying for European Safety & Performance norms must be integrated.

SELV equiv. LED drivers are recommended. LED drivers should be tested for compatibility with the lamp and qualified accordingly.



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

- . EN61347-1
- . EN61347-2-13
- . EN62384
- . EN61547
- . EN55015
- . EN62386-102
- . IEC 60068-2-6
- . IEC 60068-2-27
- . IEC 60068-2-29

## 9. COMPLIANCE TO IEC NORMS & EU/ROHS

- All measurements were conducted according to the following norms:
  - . 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)

## 10. CAUTIONS

- Store in its original packing until installation
- Maintain in storage temperature between -40 °C and +80 °C
- Handle with care during installation into the luminaire in accordance with instructions
- Luminaire makers are urged to conform to the international standards of luminaire design: IEC 60598
- Failure to conform to above listed norms and recommendations will render the warranty null & void
- The warranty is void if the product is not used for the purpose for which it is designed
- We recommend that the lamp should be disposed in an appropriate way at the end of its useful lifetime according to national disposal & recycling regulations

