

Tube T8 1500 – 5ft 22W(Glass Tube)

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1. Specification:

A. General Data

| Model | Tube T8 1500 3000K | Tube T8 1500 4000K | Tube T8 1500 5000K | Tube T8 1500 6500K |
|-------------------------------------|------------------------|------------------------|------------------------|------------------------|
| P/N | DELS- T834022A5AE11 | DELS- T844022A5AE11 | DELS- T854022A5AE11 | DELS- T8C4022A5AE11 |
| Rated Voltage | 230 VAC | 230 VAC | 230 VAC | 230 VAC |
| Frequency | 50 Hz | 50 Hz | 50 Hz | 50 Hz |
| Rated Wattage | 22W | 22W | 22W | 22W |
| Deviation Tolerance of Wattage | ±10 % | ±10 % | ±10 % | ±10 % |
| Rated Current | 0.12A | 0.12A | 0.12A | 0.12A |
| Maximum Input Current | 0.138A | 0.138A | 0.138A | 0.138A |
| Dimmable | NO | NO | NO | NO |
| Beam Angle | 200° | 200° | 200° | 200° |
| Stroboscopic effect metric (SVM) | 0.4 | 0.4 | 0.4 | 0.4 |
| Flicker metric (PstLM) | 1 | 1 | 1 | 1 |
| Energy Efficiency Class(EEC) | E | E | E | E |
| Peak luminous intensity (cd) | Non-directional | | | |
| R9 CRI | 1 | 1 | 1 | 1 |
| Survival factor | 0.9 | 0.9 | 0.9 | 0.9 |
| Safety requirements | CE | CE | CE | CE |
| Applicable Environments | IP20 | IP20 | IP20 | IP20 |
| Displacement Factor | 0.7 | 0.7 | 0.7 | 0.7 |
| Base | G13 | G13 | G13 | G13 |
| Photobiological Group | RG 0 | RG 0 | RG 0 | RG 0 |

* Displacement factor tolerance +/- 10%

B. Light Data

| | | | | |
|-------------------------------------|---------------------------------|---------------|----------|------------|
| Color | Warm white | Neutral White | Daylight | Cool White |
| Color Temperature (CCT) | 3000K | 4000K | 5000K | 6500K |
| Rated Lumen Output(Total)* | 2420lm | | | |
| Color Rendering Index | ≥ 80 | | | |
| Efficacy(Total)* | 110 lm/W | | | |
| Color Consistency** | 6 Step MacAdam Ellipse (6 SDCM) | | | |

*tolerance +/- 10%

** 3000K center point (0.43387, 0.40319) ; 4000K center point (0.38177, 0.37959) ; 5000K center point (0.34464, 0.35506) ; 6500K center point (0.31230, 0.32825)

C. Lifetime

(Supplied Voltage:AC230V; Ambient Temperature: 25°C)

| | |
|---|--------------------------|
| Lumen Maintenance Factor | 70%of the rated lifetime |
| Rated Lifetime – L_{70B50} | 15,000 hrs |
| Lumen Maintenance factor | 94.8% |

D. Temperature Operation

| | |
|-------------------------------------|--------------|
| Normal operation temperature | -20°C ~ 40°C |
| Relative Humidity | 10%~ 90% |

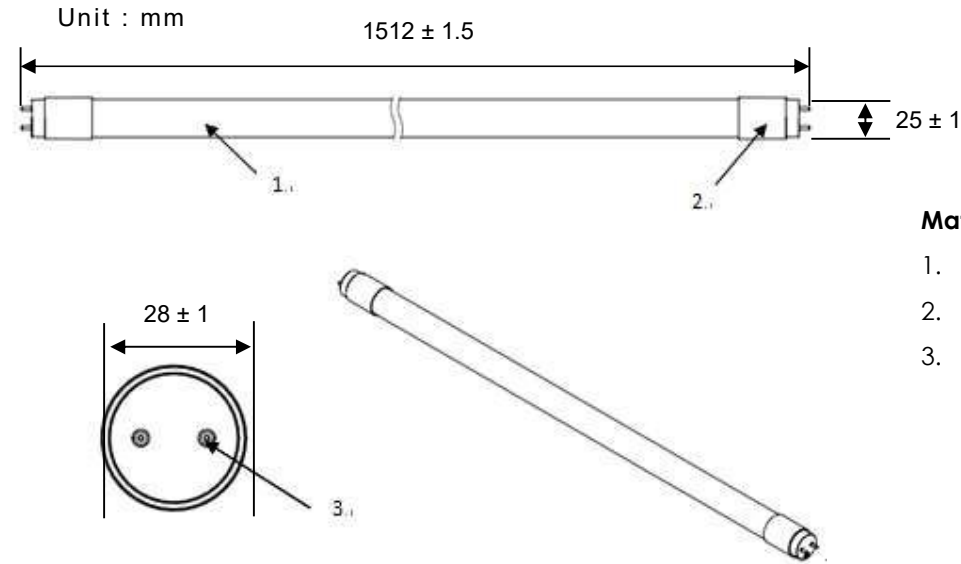
E. Geometric Data

| | |
|-------------------------------|--------------|
| Maximum overall length | 1512± 1.5 mm |
| Glass cover diameter | 25 ± 1 mm |
| End cap diameter | 28 ± 1 mm |
| Mass | 225 ± 10% |

F. Environmental relevant materials

| | |
|--|---------------------------------------|
| Mercury (Hg) | Comply with RoHS Directive 2011/65/EU |
| Lead (Pb) | |
| Cadmium(Cd) | |
| Hexavalent Chromium(Cr6+) | |
| Polybrominated Biphenyls(PBBs) | |
| Polybrominated Diphenyl Ethers(PBDEs) | |
| Bis (2-ethylhexyl) phthalate(DEHP) | |
| Butyl benzyl phthalate(BBP) | |
| Dibutyl phthalate(DBP) | |
| Diisobutylphthalate(DIBP) | |

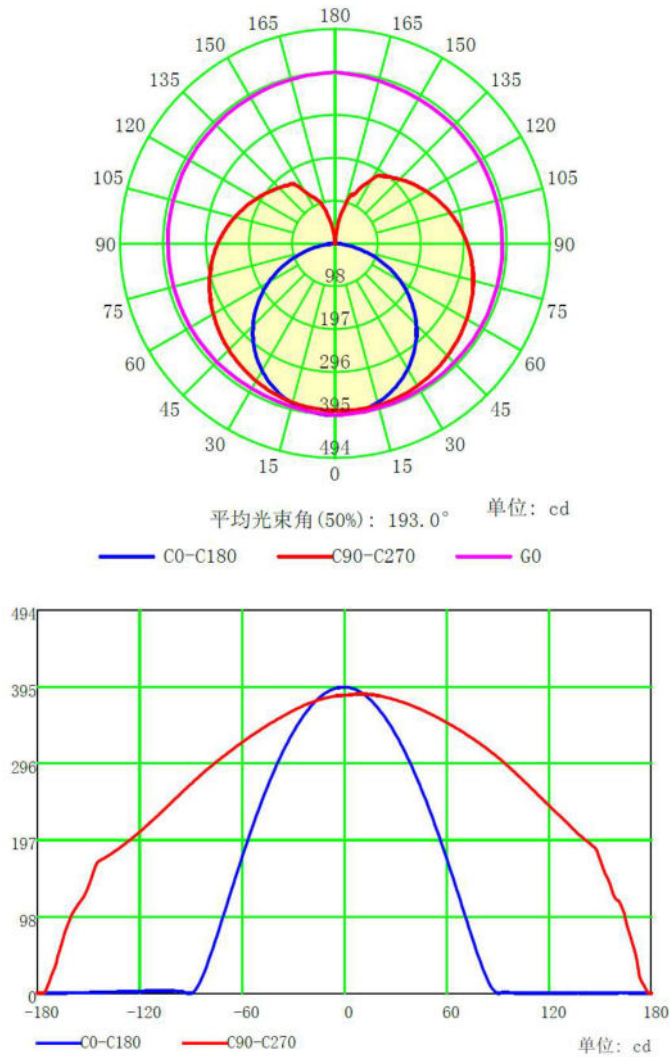
2. Outline Drawing



Material Information

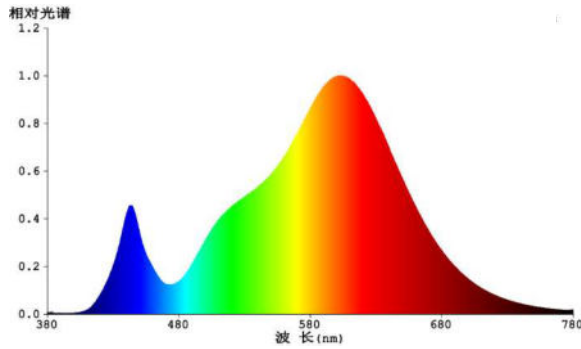
- 1. Cover : Glass
- 2. End cap : Plastic
- 3. Pin : Metal

3. Light Distribution Curve

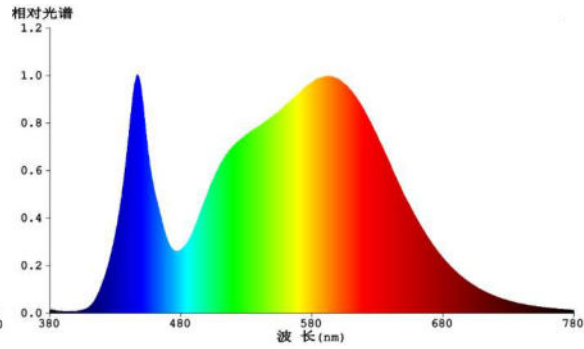


4. Spectrum Distribution

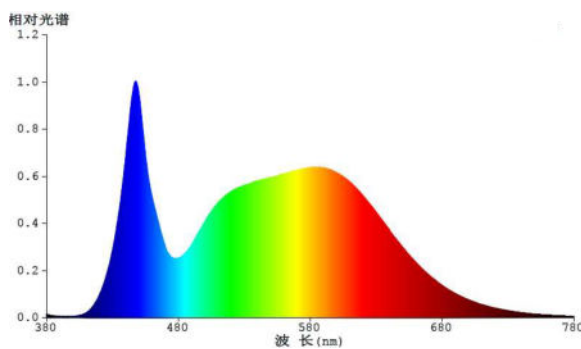
● 3000K Color Temperature



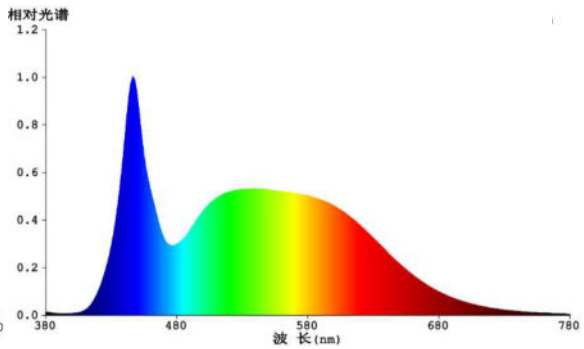
● 4000K Color Temperature



● 5000K Color Temperature

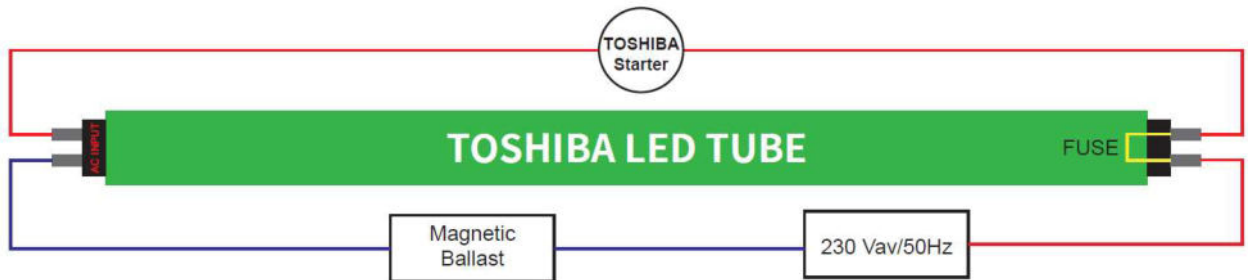


● 6500K Color Temperature



5. Installation Options

- Retrofitting in a CCG luminaire
 - (1) Make sure that the supply voltage is disconnected
 - (2) Remove the conventional lamp
 - (3) Remove the starter and power factor correction capacitor
 - (4) Install TOSHIBA own starter.
 - (5) Rewire the luminaire as shown in the circuit diagram below
 - (6) Insert LED tube into lamp holders and turn on the supply voltage to check the light distribution



NOTE :

- It can't be guaranteed LED tube can match up all kinds of electromagnetic ballasts.

6. Warnings

- Before replacing, turn off power and let lamp cool to avoid electrical shock or burn.
- The LED tube must not be damaged or operated in a damaged condition.
- If having flickering issue on LED tube when installing with the electromagnetic ballast, please change suitable electromagnetic ballasts.

7. Cautions

- Not intended for use with emergency light fixtures or exit lights.
- When operating with CCG (Electromagnetic Ballast), if the conventional starter is not removed, the LED tube will start blinking. Switch off immediately, the LED tube can be damaged.

8. Notes

- All characteristics are estimated at room temperature (25°C), free air burning, base up burning position and at rated voltage. In view of the complex manufacturing process for light above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technic individual products may vary from the typical values.
- The LED tube emits light only with a limited angle, not like a fluorescent tube with 360 degree output.
- Due to the characteristic light distribution of the LED tube, the current luminaire light characteristic will likely change.

9. Logistic information

| Model | Tube T8 1500 3000K | Tube T8 1500 4000K | Tube T8 1500 5000K | Tube T8 1500 6500K |
|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pieces per pack | 1 | 1 | 1 | 1 |
| EAN code on pack | 4711112387984 | 4711112387991 | 4711112388004 | 4711112388011 |
| Size of pack | 1555x30x30 mm | | | |
| Weight per pack (G.W) | 0.275 kg ± 10% | | | |
| Packs per inner box | N/A | N/A | N/A | N/A |
| EAN code on inner box | N/A | N/A | N/A | N/A |
| ITF code on inner box | N/A | N/A | N/A | N/A |
| Size of inner box | N/A | N/A | N/A | N/A |
| Weight per inner box(G.W) | N/A | N/A | N/A | N/A |
| Packs per outer box | 25 | | | |
| EAN code on outer box | N/A | N/A | N/A | N/A |
| ITF code on outer box | 14711112387981 | 14711112387998 | 14711112388001 | 14711112388018 |
| Size of outer box | 1540*170*170 mm | | | |
| Weight per outer box(G.W) | 8.5 kg ± 10% | | | |

Packing Photograph

Tube T8 1500 3000K



Tube T8 1500 4000K



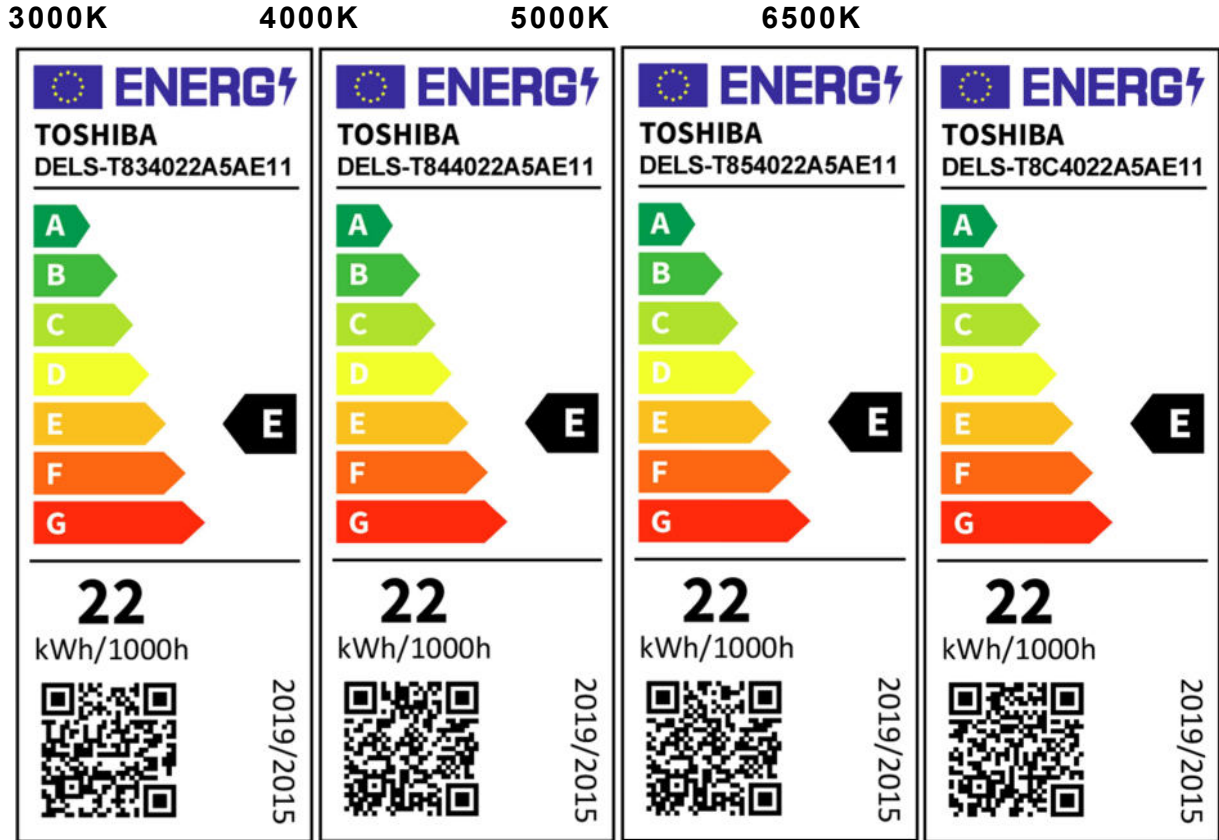
Tube T8 1500 5000K



Tube T8 1500 6500K



10. ERP Label



11. Conformity

| | |
|---|---|
| <p>2014/35/EU; Low Voltage Directive</p> | <p>EN 62776 : 2015 、 EN 62471 : 2008 、 EN62493 : 2015</p> |
| <p>2014/30/EU; EMC Directive</p> | <p>EN 55015: 2019+A11 、 EN 61000-3-2:2019 、 EN 61000-3-3: 2013+A1 EN 61547:2009</p> |
| <p>2009/125/EC; ErP Directive</p> | <p>(EU) 2019/2015 、 (EU) 2019/2020 、 (EU) 2021/340 、 (EU) 2021/341</p> |
| <p>2011/65/EU+(EU)2015/863; RoHS Directive</p> | <p>EN 50581: 2012</p> |

12. Applicable countries

Albania ,Austria , Belgium , Bulgaria , Croatia , Cyprus , Czech , Denmark , Estonia , Finland , France , Georgia
Germany ,Greece , Iceland , Ireland , Italy , Luxembourg , Malta , Morocco , Netherland , Norway , Portugal
Romania ,Serbia , Spain , Sweden , Switzerland , Tunisia ,U.K

Note : The requirement of each country will be reflected to the product specifications, when the products will be shipped to such country.

13. Manufacturer

EPILEDs TECHNOLOGIES, INC.