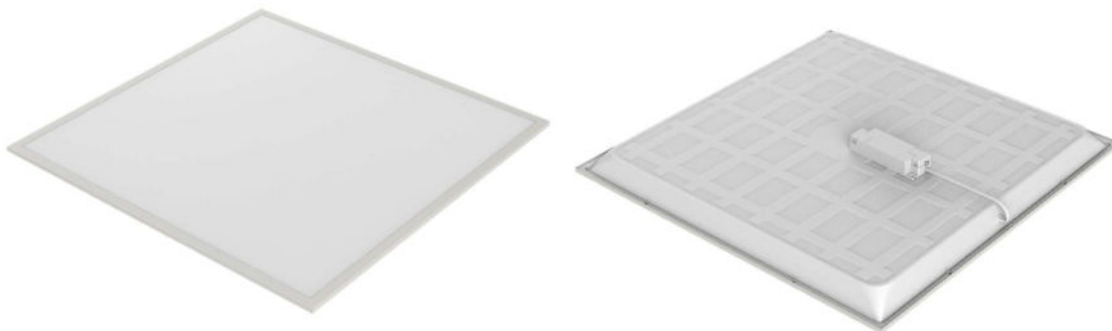


PANEL LIGHT 600x600

UGR<19 100 lm/W

Authorized Licensee for TOSHIBA trademark



1. Specification:

A. General Data

| Model | 600x600 mm 3000K | 600x600 mm 4000K | 600x600 mm 5000K | 600x600 mm 6500K |
|--|---------------------|---------------------|---------------------|---------------------|
| P/N | DELL-PL3403622U054 | DELL-PL4403622U054 | DELL-PL5403622U054 | DELL-PLC403622U054 |
| Rated Voltage | 230 VAC | 230 VAC | 230 VAC | 230 VAC |
| Frequency | 50 Hz | 50 Hz | 50 Hz | 50 Hz |
| Rated Wattage | 36W | 36W | 36W | 36W |
| Deviation Tolerance of Wattage | ±10 % | ±10 % | ±10 % | ±10 % |
| Power Factor | >0.9 | >0.9 | >0.9 | >0.9 |
| Rated Current | 155 mA | 155 mA | 155 mA | 155 mA |
| Maximum Input Current | 200 mA | 200 mA | 200 mA | 200 mA |
| Start On | <0.5S | <0.5S | <0.5S | <0.5S |
| Warm-up time up to 60% of the full light output | <1S | <1S | <1S | <1S |
| Dimmable | NO | NO | NO | NO |
| Unified Glare Rating Room dimensions of 4H/8H | <19 | <19 | <19 | <19 |
| Peak luminous intensity (cd) | 1550 | 1550 | 1550 | 1550 |
| Beam Angle (degrees) | 90° | 90° | 90° | 90° |

| | | | | |
|---|------|------|------|------|
| R9 CRI | >1 | >1 | >1 | >1 |
| Survival factor | 0.9 | 0.9 | 0.9 | 0.9 |
| Displacement factor (cos φ1) | >0.9 | >0.9 | >0.9 | >0.9 |
| Stroboscopic effect metric (SVM) ≤ 0.9 | 0.1 | 0.1 | 0.1 | 0.1 |
| Flicker metric (PstLM) ≤ 1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Energy Efficiency Class (EEC) | F | F | F | F |
| Safety requirements | CE | CE | CE | CE |
| Applicable Environments | IP40 | IP40 | IP40 | IP40 |
| Photobiological Group | RG0 | RG0 | RG0 | RG0 |

B. Light Data

| | | | | |
|---------------------------------------|---|----------------|----------------|----------------|
| Color | Warm white | Neutral White | Daylight White | Cool White |
| Color Temperature (CCT) | 3000K | 4000K | 5000K | 6500K |
| Lumen Output* (φ120°) | 3060 lm | 3060 lm | 3060 lm | 3060 lm |
| Lumen Output* (φTotal) | 3600 lm | 3600 lm | 3600 lm | 3600 lm |
| Directional lamp | Yes | Yes | Yes | Yes |
| Beam angle correspondence* | Wide cone | Wide cone | Wide cone | Wide cone |
| Light source type | Directional (DLS) not operating on mains (NMLS) | | | |
| Color Rendering Index | ≥ 80 | | | |
| Efficacy(Useful)*[Ⓢ] | 92.6 lm/W | 92.6 lm/W | 92.6 lm/W | 92.6 lm/W |
| Efficacy(Total)* | 100 lm/W | 100 lm/W | 100 lm/W | 100 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)

Ⓢ Efficacy(Useful) = (φ use / Pon) x FTM

★ Sphere : non-directional 、 Wide cone : Beam angle ≥ 90°(Φ120°, in a 120° cone) 、 Narrow cone : Beam angle < 90°(Φ90°, in a 90° cone)

C. Lifetime

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

| | |
|---|--------------------------|
| Lumen Maintenance Factor | 70%of the rated lifetime |
| Rated Lifetime – L_{70B50} | 25,000 hrs |
| Lumen Maintenance factor | 95.8% |

D. Temperature Operation

| | |
|-------------------------------------|--------------|
| Normal operation temperature | -10°C ~ 45°C |
| Relative Humidity | 10%~ 90% |

E. Geometric Data

| | |
|--------------------------|-----------------------------|
| Model | Panel 600x600 UGR19 100lm/W |
| Maximum Length | 595 ± 2 mm |
| Maximum width | 595 ± 2 mm |
| Maximum thickness | 34 ± 2 mm |
| Mass | 1.25 kg ± 10% |

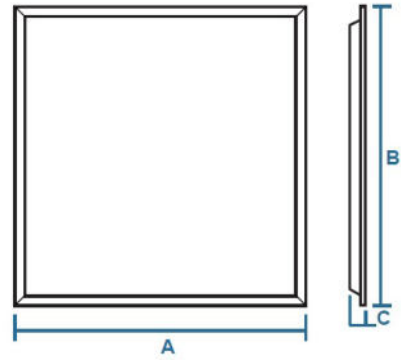
F. Environmental relevant materials

| | |
|--|---------------------------------------|
| 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

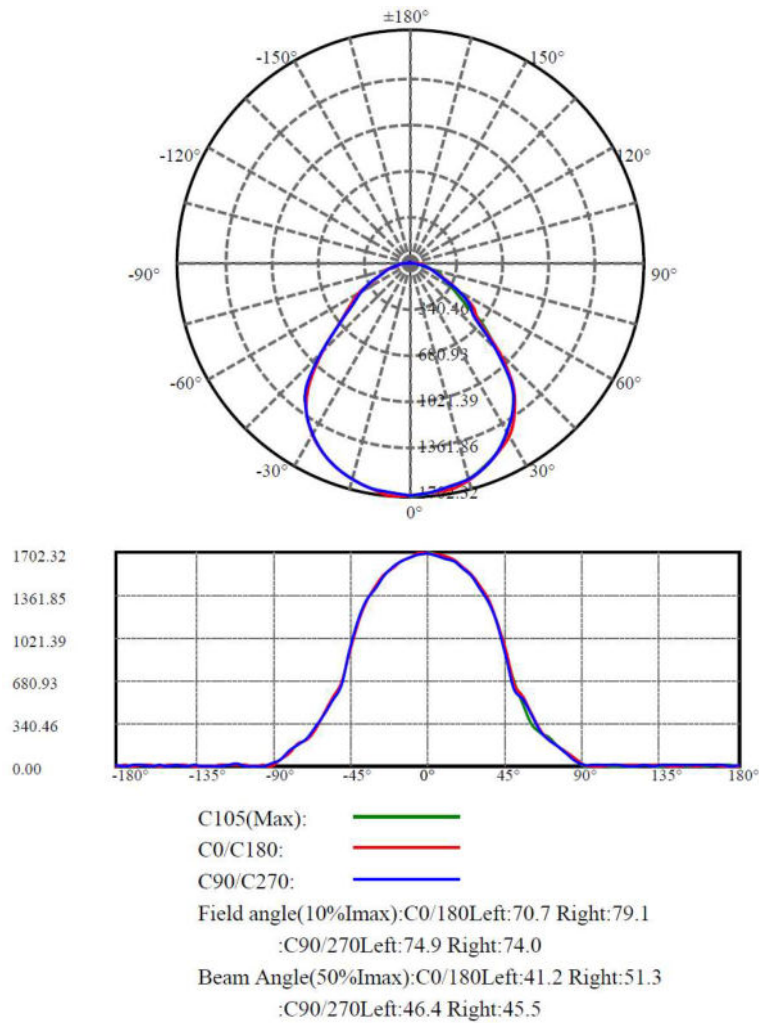
Unit : mm

| Model NO. | Size A(mm) | Size B(mm) | Size C(mm) |
|------------------------|------------|------------|------------|
| DELL- PLx403622U054 | 595 | 595 | 34 |



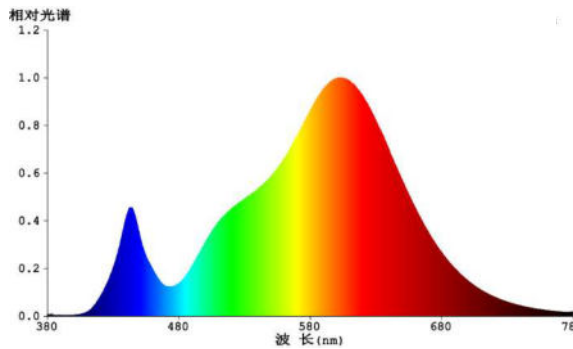
3. Light Distribution Curve

Full width at half maximum (FWHM) :90°

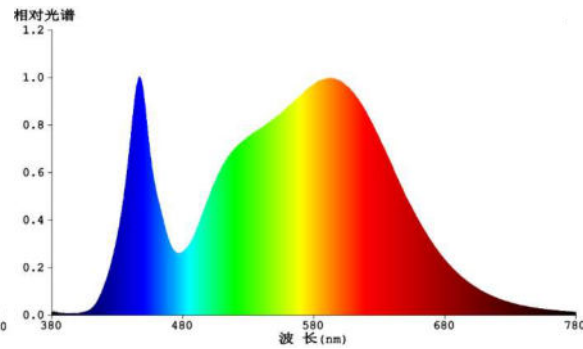


4. Spectrum Distribution

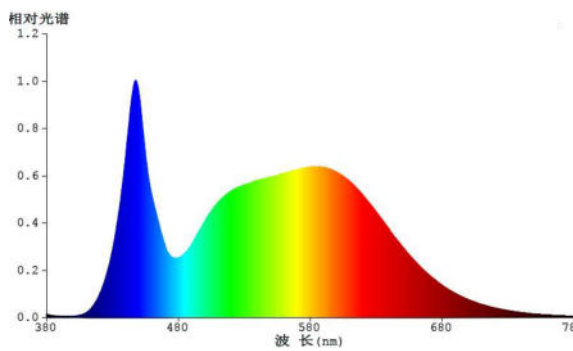
3000K Color Temperature



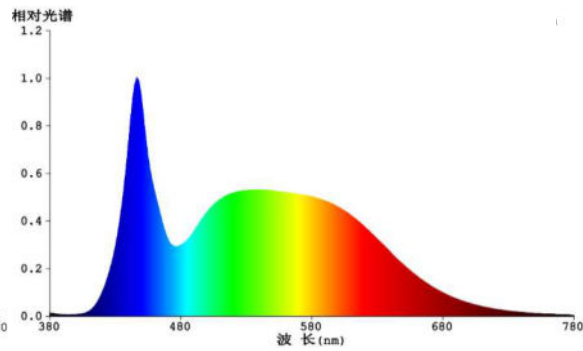
4000K Color Temperature



5000K Color Temperature



6500K Color Temperature



5. Warnings

- Before replacing, turn off power and let lamp cool to avoid electrical shock or burn.
- Before opening the package, please check if there's damage or defect during transportation, if damage occurs, please don't use it and inform your supplier immediately.
- Please do not attempt to use a damaged product.
- The product should be installed, dismantled and maintained by a qualified electrician; Suppliers don't take charge of any problems or damages that occur due to mishandling such as an operation not permitted in this manual.
- Choose an install place where can withstand 10 times the weight of the product to ensure a solid installation.
- Wipe the veil with soft cloth dipped a little neutral detergent, be sure not to use any sandpaper, polishing powder or alcohol, gasoline and so on liquor.
- The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced.

6. Cautions

Only to apply in dry and most of open fixtures with lamp-holders that offer sufficient space (10 mm free air space). Not intended for use with emergency light fixtures for exit lights.

7. 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.

8. Logistic information

| Model | 600x600 mm 3000K | 600x600 mm 4000K | 600x600 mm 5000K | 600x600 mm 6500K |
|---------------------------|---------------------|---------------------|---------------------|---------------------|
| Pieces per pack | 1 | 1 | 1 | 1 |
| EAN code on pack | 4711112387571 | 4711112387588 | 4711112387595 | 4711112387601 |
| Size of pack | 60*3.8*63.5 cm | 60*3.8*63.5 cm | 60*3.8*63.5 cm | 60*3.8*63.5 cm |
| Weight per pack (G.W) | N/A | N/A | N/A | N/A |
| 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 | 4 | 4 | 4 | 4 |
| EAN code on outer box | N/A | N/A | N/A | N/A |
| ITF code on outer box | 14711112387578 | 14711112387585 | 14711112387592 | 14711112387608 |
| Size of outer box | 65*17*65 cm | 65*17*65 cm | 65*17*65 cm | 65*17*65 cm |

| Weight per outer box(G.W) | 6.2 kg | 6.2 kg | 6.2 kg | 6.2 kg |
|---|---|---|---|--------|
| Packing Photograph | 3000K | | | |
| |  | |  | |
| |  | |  | |
| |  | |  | |
|  | |  | | |

9. ERP Label

3000K

4000K

5000K

6500K



10. Conformity

| | |
|--|--|
| 2014/35/EU; Low Voltage Directive | EN 60598-2-2:2012 、 EN60598-1:2015 、 EN60598-1:2015/A1:2018 、 EN62471:2008 、 EN 62493:2015 、 IEC/TR 62778: 2014 |
| 2014/30/EU; EMC Directive | EN 55015: 2020 、 EN 61000-3-2:2021 、 EN 61000-3-3: 2013/A1:2019 EN 61547:2009 |
| 2009/125/EC; ErP Directive | (EU) 2019/2015 、 (EU) 2019/2020 、 (EU) 2021/340 、 (EU) 2021/341 |
| 2011/65/EU+(EU)2015/863; RoHS Directive | EN 50581: 2012 |

11. 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.

12. Manufacturer

EPILEDS TECHNOLOGIES, INC.