

# LED PAR16-76W 38D (Low flicker)

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## 1. Specification:

### A. General Data

<b>Model</b>	Classic PAR16 38D 76W 2700K	Classic PAR16 38D 76W 3000K	Classic PAR16 38D 76W 4000K	Classic PAR16 38D 76W 6500K
<b>P/N</b>	DELS- GUW4007T8AE21	DELS- GU34007T8AE21	DELS- GU44007T8AE21	DELS- GUC4007T8AE21
<b>Rated Voltage</b>	230 VAC	230 VAC	230 VAC	230 VAC
<b>Frequency</b>	50 Hz	50 Hz	50 Hz	50 Hz
<b>Rated Wattage</b>	7W	7W	7W	7W
<b>Deviation Tolerance of Wattage</b>	±10 %	±10 %	±10 %	±10 %
<b>Displacement Factor</b>	0.5	0.5	0.5	0.5
<b>Rated Current</b>	60 mA	60 mA	60 mA	60 mA
<b>Maximum Input Current</b>	70 mA	70 mA	70 mA	70 mA
<b>Start On</b>	<0.5S	<0.5S	<0.5S	<0.5S
<b>Warm-up time up to 60% of the full light output</b>	<1S	<1S	<1S	<1S
<b>Dimmable</b>	NO	NO	NO	NO
<b>Beam Angle</b>	38°	38°	38°	38°
<b>Stroboscopic effect metric (SVM)</b>	≤ 0.9	≤ 0.9	≤ 0.9	≤ 0.9
<b>Flicker metric (PstLM)</b>	≤ 1	≤ 1	≤ 1	≤ 1
<b>Energy Efficiency Class(EEC)</b>	F	F	F	F
<b>Safety requirements</b>	CE			
<b>Applicable Environments</b>	Dry locations; Not suitable for totally enclosed fixtures			
<b>Ingress protection rating</b>	IP20			
<b>Impact resistance</b>	N.A			
<b>Incandescent Equivalent</b>	76W	76W	76W	76W
<b>Base</b>	GU10	GU10	GU10	GU10
<b>Photobiological Group</b>	RG 0	RG 0	RG 0	RG 0

\* Displacement factor tolerance +/- 10%

**B. Light Data**

<b>Color</b>	Soft white	Warm white	Neutral White	Cool White
<b>Color Temperature (CCT)</b>	2700K	3000K	4000K	6500K
<b>Rated Lumen Output( Useful )*</b>	<b>560lm</b>			
<b>Rated Lumen Output( Total )*</b>	<b>720lm</b>			
<b>Color Rendering Index</b>	$\geq 80$			
<b>Efficacy( Useful)*</b>	80 lm/W			
<b>Efficacy( Total )*</b>	102.8 lm/W			
<b>Color Consistency**</b>	6 Step MacAdam Ellipse (6 SDCM)			

\*tolerance +/- 10%

\*\* 2700K center point (0.445766, 0.40983) · 3000K center point (0.4338, 0.403) · 4000K center point (0.3818, 0.3796) · 6500K center point (0.3123, 0.3283)

**C. Lifetime**

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

<b>Lumen Maintenance Factor</b>	70%of the rated lifetime
<b>Rated Lifetime – L<sub>70</sub>B<sub>50</sub></b>	15,000 hrs
<b>Switching Cycles</b>	$\geq 12,000$

**D. Temperature Operation**

<b>Normal operation temperature</b>	-20°C ~ 40°C
<b>Relative Humidity</b>	10%~ 90%

**E. Geometric Data**

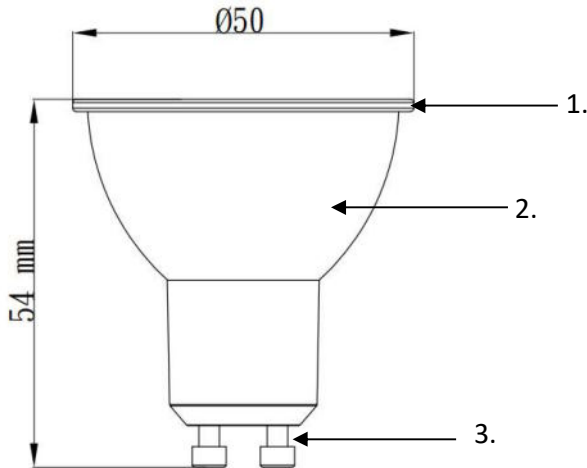
<b>Model</b>	Classic PAR16 GU10 63W
<b>Maximum overall length</b>	54 ± 2 mm (2.13 ± 0.08 inch )
<b>Maximum diameter</b>	50 ± 2 mm ( 1.97± 0.08 inch )
<b>Mass</b>	33 ± 3 g

**F. Environmental relevant materials**

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

**2. Outline Drawing**

Unit : mm

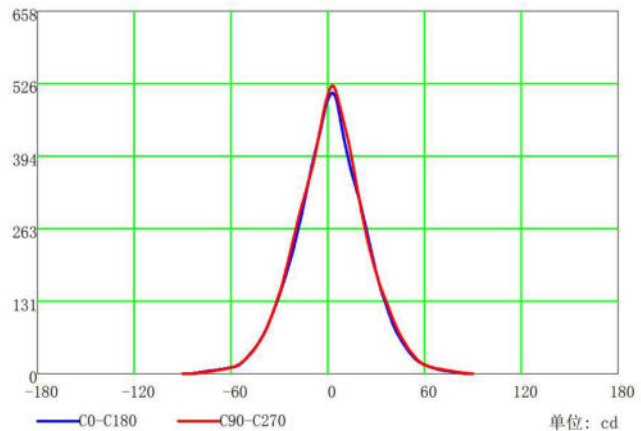
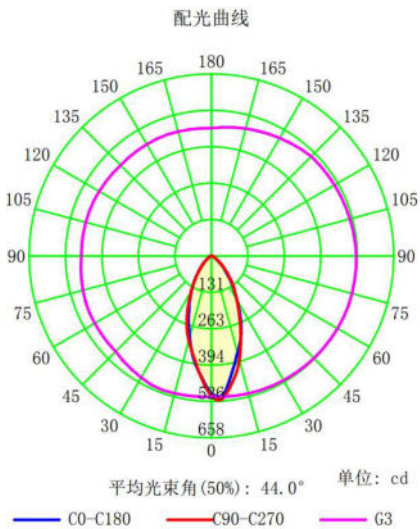


**Material Information**

- 1. Globe: Plastic
- 2. Body: Plastic
- 3. Base: Metal

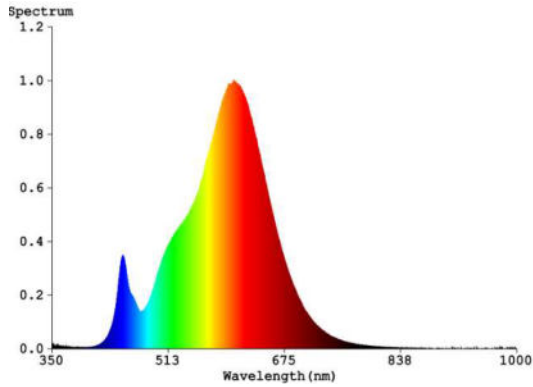
**3. Light Distribution Curve**

FWHM 38°

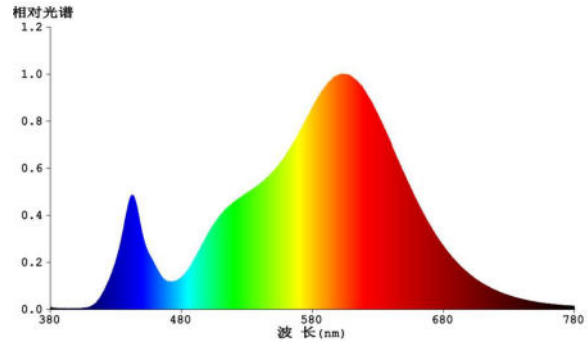


## 4. Spectrum Distribution

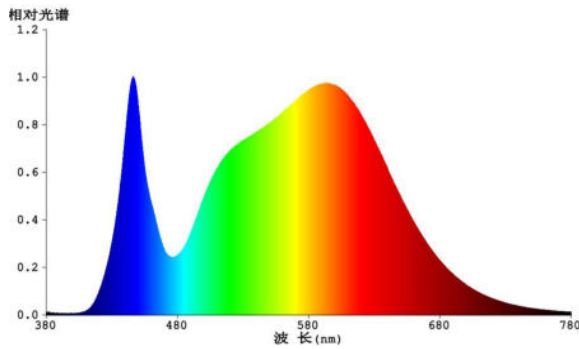
2700K Color Temperature



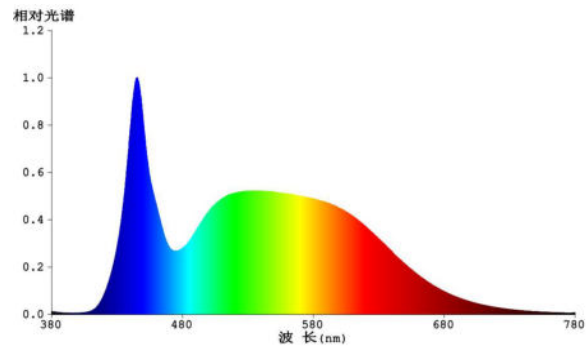
3000K Color Temperature



4000K Color Temperature



6500K Color Temperature



## 5. Warnings

Before replacing, turn off power and let lamp cool to avoid electrical shock or burn.

## 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.

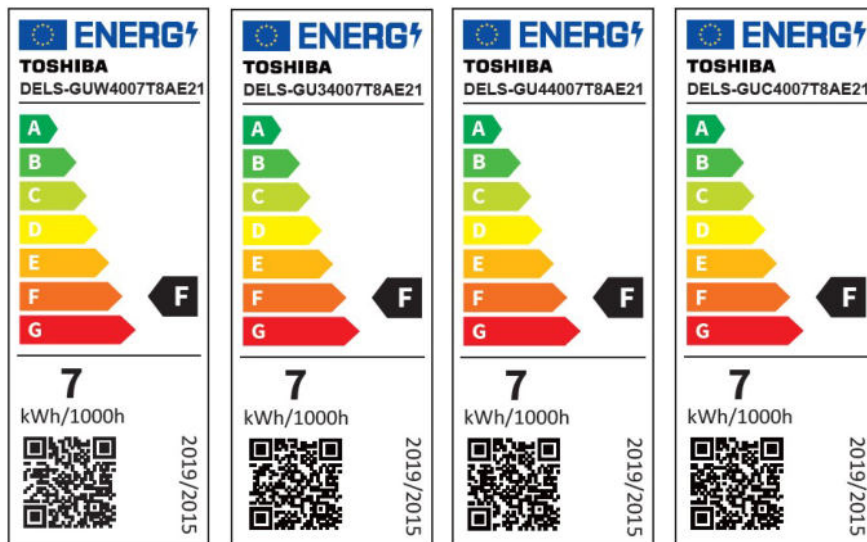
**8. Logistic information**

<b>Model</b>	Classic PAR16 GU10 76W 2700K	Classic PAR16 GU10 76W 3000K	Classic PAR16 GU10 76W 4000K	Classic PAR16 GU10 76W 6500K
<b>Pieces per pack</b>	1	1	1	1
<b>EAN code on pack</b>	4711112389681	4711112384938	4711112384945	4711112384952
<b>Size of pack</b>	51* 51 * 61mm			
<b>Weight per pack (G.W)</b>	40g			
<b>Packs per inner box</b>	N/A	N/A	N/A	N/A
<b>EAN code on inner box</b>	N/A	N/A	N/A	N/A
<b>ITF code on inner box</b>	N/A	N/A	N/A	N/A
<b>Size of inner box</b>	N/A	N/A	N/A	N/A
<b>Weight per inner box(G.W)</b>	N/A	N/A	N/A	N/A
<b>Packs per outer box</b>	200			
<b>EAN code on outer box</b>	N/A	N/A	N/A	N/A
<b>ITF code on outer box</b>	14711112389688	14711112384935	14711112384942	14711112384959
<b>Size of outer box</b>	530*275*270mm			
<b>Weight per outer box(G.W)</b>	8.1kg			



**9. ERP Label**

DELS-GUW4007T8AE21 / DELS-GU34007T8AE21 / DELS-GU44007T8AE21 / DELS-GUC4007T8AE21



## 10. Conformity

<b>2014/35/EU; Low Voltage Directive</b>	EN 62560:2012+A1:2015 、 EN62471:2008 EN 62493:2015 、 IEC/TR 62778: 2014
<b>2014/30/EU; EMC Directive</b>	EN 55015: 2013+A12015 、 EN 61000-3-2:2014 、 EN 61000-3-3: 2013 EN 61547:2009
<b>2009/125/EC; ErP Directive</b>	(EU) 2019/2015 、 (EU) 2019/2020 、 (EU) 2021/340 、 (EU) 2021/341
<b>2011/65/EU+(EU)2020/659; RoHS Directive</b>	EN IEC 63000 : 2018

## 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.