

# LED PAR16-50W 38D (Low flicker)

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## 1. Specification:

### A. General Data

Model	Classic PAR16 38D 50W 2700K	Classic PAR16 38D 50W 3000K	Classic PAR16 38D 50W 4000K	Classic PAR16 38D 50W 6500K
P/N	DELS-GUW4004T8 AE21	DELS-GU34004T8 AE21	DELS-GU44004T8 AE21	DELS-GUC4004T8 AE21
Rated Voltage	230 VAC	230 VAC	230 VAC	230 VAC
Frequency	50 Hz	50 Hz	50 Hz	50 Hz
Rated Wattage	4W	4W	4W	4W
Deviation Tolerance of Wattage	±10 %	±10 %	±10 %	±10 %
Displacement Factor	0.5(typical)	0.5(typical)	0.5(typical)	0.5(typical)
Rated Current	36 mA	36 mA	36 mA	36 mA
Maximum Input Current	40 mA	40 mA	40 mA	40 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
Beam Angle	38°	38°	38°	38°
Stroboscopic effect metric (SVM)	≤ 0.9	≤ 0.9	≤ 0.9	≤ 0.9
Flicker metric (PstLM)	≤ 1	≤ 1	≤ 1	≤ 1
Energy Efficiency Class(EEC)	F	F	F	F
Safety requirements	CE			
Applicable Environments	Dry locations; Not suitable for totally enclosed fixtures			
Ingress protection rating	IP20			
Impact resistance	N.A			
Incandescent Equivalent	50W	50W	50W	50W
Base	GU10	GU10	GU10	GU10
Photobiological Group	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>345lm</b>			
<b>Rated Lumen Output( Total )*</b>	<b>400lm</b>			
<b>Color Rendering Index</b>	$\geq 80$			
<b>Efficacy( Useful)*</b>	86.3 lm/W			
<b>Efficacy( Total )*</b>	100 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**

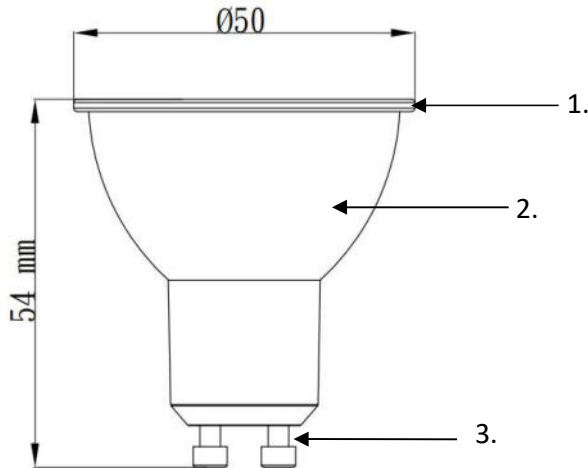
<b>Model</b>	Classic PAR16 GU10 50W
<b>Maximum overall length</b>	54 ± 2 mm (2.13 ± 0.08 inch )
<b>Maximum diameter</b>	50 ± 2 mm ( 1.97± 0.08 inch )
<b>Mass</b>	27 ± 3 g

**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

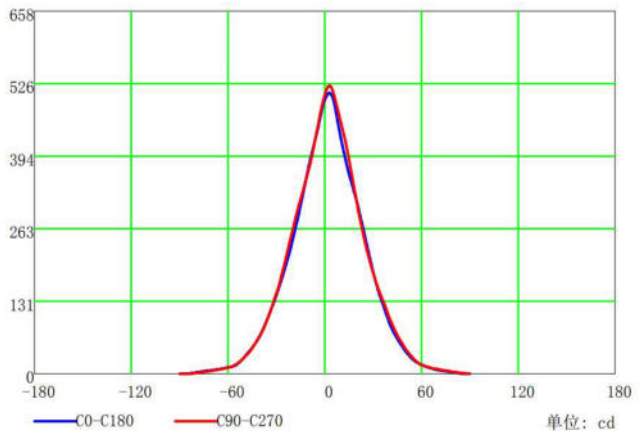
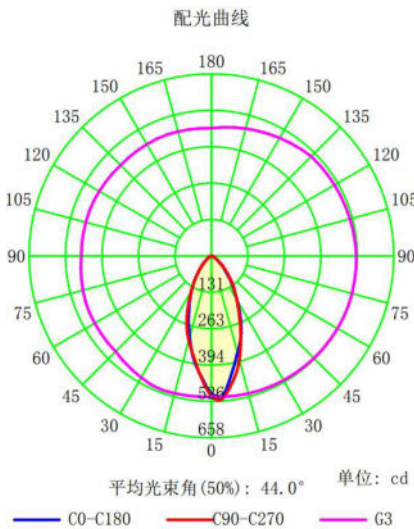


**Material Information**

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

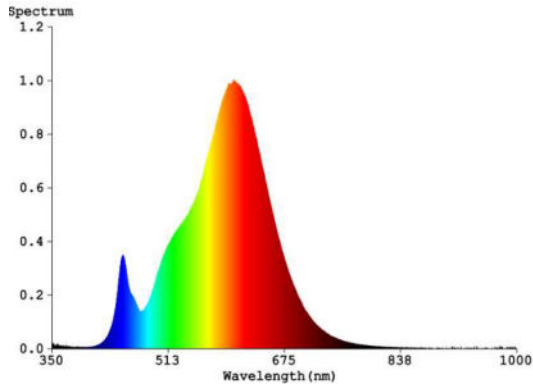
**3. Light Distribution Curve**

FWHM 38°

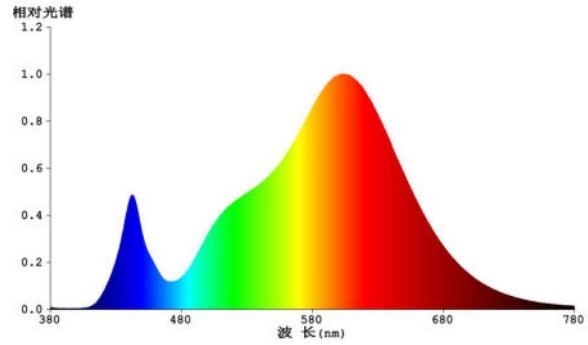


**4. Spectrum Distribution**

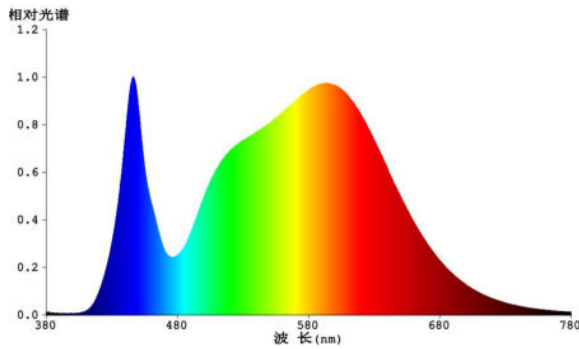
2700K Color Temperature



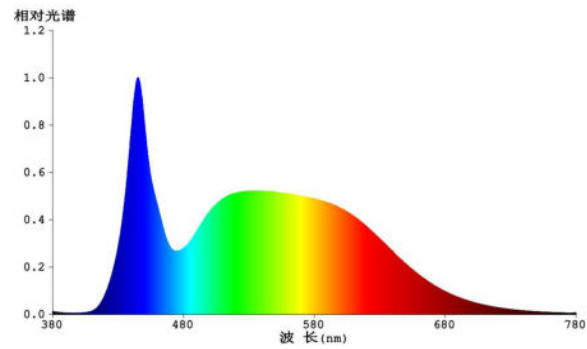
3000K Color Temperature



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.

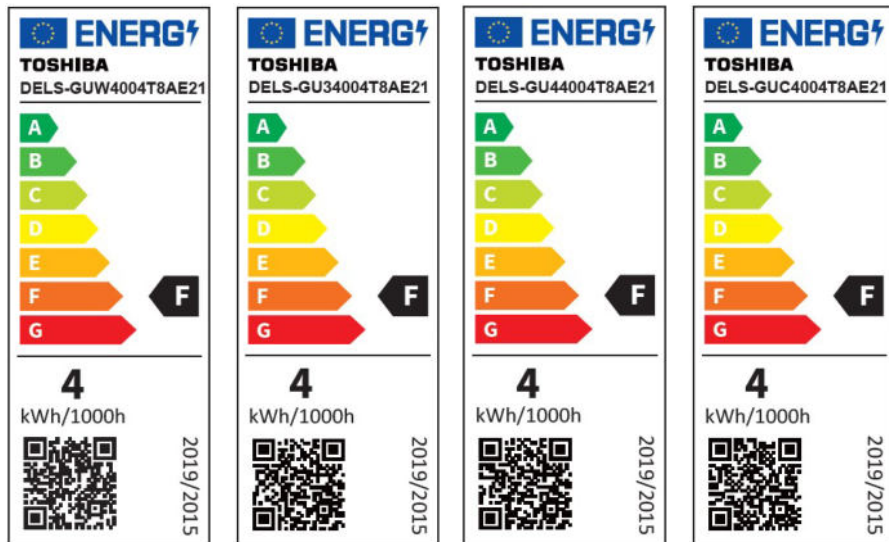
**8. Logistic information**

<b>Model</b>	Classic PAR16 GU10 50W 2700K	Classic PAR16 GU10 50W 3000K	Classic PAR16 GU10 50W 4000K	Classic PAR16 GU10 50W 6500K
<b>Pieces per pack</b>	1	1	1	1
<b>EAN code on pack</b>	4711112389667	4711112384877	4711112384884	4711112384891
<b>Size of pack</b>	51* 51 * 61mm			
<b>Weight per pack (G.W)</b>	33.5g			
<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>	14711112389664	14711112384874	14711112384881	14711112384898
<b>Size of outer box</b>	530*275*270mm			
<b>Weight per outer box(G.W)</b>	7.6kg			



**9. ERP Label**

DELS-GUW4004T8AE21 / DELS-GU34004T8AE21 / DELS-GU44004T8AE21 / DELS-GUC4004T8AE21



## 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.