

# LED UGR16 PANEL LIGHT -620x620mm

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## 1. Specification:

### A. General Data

<b>Model</b>		Panel 620x620 mm 3000K	Panel 620x620 mm 4000K	Panel 620x620 mm 5000K
<b>P/N</b>		DELL-PL34040BBE022	DELL-PL44040BBE022	DELL-PL54040BBE022
<b>Rated Voltage</b>		230 VAC	230 VAC	230 VAC
<b>Frequency</b>		50 Hz	50 Hz	50 Hz
<b>Rated Wattage</b>		34/36/38/40W adjustable with DIP switch	34/36/38/40W adjustable with DIP switch	34/36/38/40W adjustable with DIP switch
<b>Deviation Tolerance of Wattage</b>		±10 %	±10 %	±10 %
<b>Power Factor</b>		>0.9	>0.9	>0.9
<b>Rated Current (DC Panel light)</b>	<b>34W</b>	900 mA	900 mA	900 mA
	<b>36W</b>	950 mA	950 mA	950 mA
	<b>38W</b>	1000 mA	1000 mA	1000 mA
	<b>40W</b>	1050 mA	1050 mA	1050 mA
<b>Output Voltage (Power supply)</b>		25-40V DC output		
<b>Rated Current (Power supply)</b>	<b>34W</b>	148 mA	148 mA	148 mA
	<b>36W</b>	157 mA	157 mA	157 mA
	<b>38W</b>	165 mA	165 mA	165 mA
	<b>40W</b>	174 mA	174 mA	174 mA
<b>Maximum Input Current (Power supply)</b>		250 mA	250 mA	250 mA
<b>Start On</b>		<0.5S	<0.5S	<0.5S
<b>Warm-up time up to 60% of the full light output</b>		<1S	<1S	<1S
<b>Dimmable</b>		NO	NO	NO
<b>Unified Glare Rating Room dimensions of 4H/8H</b>		<16	<16	<16
<b>Peak luminous intensity (cd) *</b>	<b>34W</b>	3100	3100	3100
	<b>36W</b>	3250	3250	3250
	<b>38W</b>	3680	3680	3680
	<b>40W</b>	3880	3880	3880

<b>Beam Angle (degrees)</b>	75°	75°	75°
<b>R9 CRI</b>	>0	>0	>0
<b>Survival factor</b>	100%	100%	100%
<b>Lumen Maintenance factor</b>	96%	96%	96%
<b>Displacement factor (cos φ1)</b>	>0.9	>0.9	>0.9
<b>Stroboscopic effect metric (SVM)</b>	≤ 0.4	≤ 0.4	≤ 0.4
<b>Flicker metric (PstLM)</b>	≤ 1	≤ 1	≤ 1
<b>Energy Efficiency Class(EEC)</b>	E	E	E
<b>Safety requirements</b>	CE	CE	CE
<b>Applicable Environments</b>	Front side: IP40 Back side: IP20	Front side: IP40 Back side: IP20	Front side: IP40 Back side: IP20
<b>Photobiological Group</b>	RG 0	RG 0	RG 0

\*tolerance +/- 10%

## B. Light Data

<b>Color</b>		Warm white	Neutral White	Daylight
<b>Color Temperature (CCT)</b>		3000K	4000K	5000K
<b>Lumen Output*</b> (φ90°)	34W	<b>3760 lm</b>	<b>4050 lm</b>	<b>4050 lm</b>
	36W	<b>3980 lm</b>	<b>4285 lm</b>	<b>4285 lm</b>
	38W	<b>4200 lm</b>	<b>4520 lm</b>	<b>4520 lm</b>
	40W	<b>4420 lm</b>	<b>4760 lm</b>	<b>4760 lm</b>
<b>Lumen Output*</b> (φTotal)	34W	<b>4420 lm</b>	<b>4760 lm</b>	<b>4760 lm</b>
	36W	<b>4680 lm</b>	<b>5040 lm</b>	<b>5040 lm</b>
	38W	<b>4940 lm</b>	<b>5320 lm</b>	<b>5320 lm</b>
	40W	<b>5200 lm</b>	<b>5600 lm</b>	<b>5600 lm</b>
<b>Color Rendering Index</b>		≥ 80		
<b>Efficacy( Useful)*<sup>Ⓞ</sup></b>		110 lm/W	119 lm/W	119 lm/W
<b>Efficacy( Total )*</b>		130 lm/W	140 lm/W	140 lm/W
<b>Color Consistency**</b>		6 Step MacAdam Ellipse (6 SDCM)		

\*tolerance +/- 10%

\*\* 3000K center point (0.4338, 0.403) · 4000K center point (0.3818, 0.3796) · 5000K center point (0.34464, 0.35506)

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

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>	50,000 hrs
<b>Switching Cycles</b>	≥ 25,000

D. Temperature Operation

<b>Normal operation temperature</b>	-20°C ~ 50°C
<b>Relative Humidity</b>	10%~ 90%

E. Geometric Data

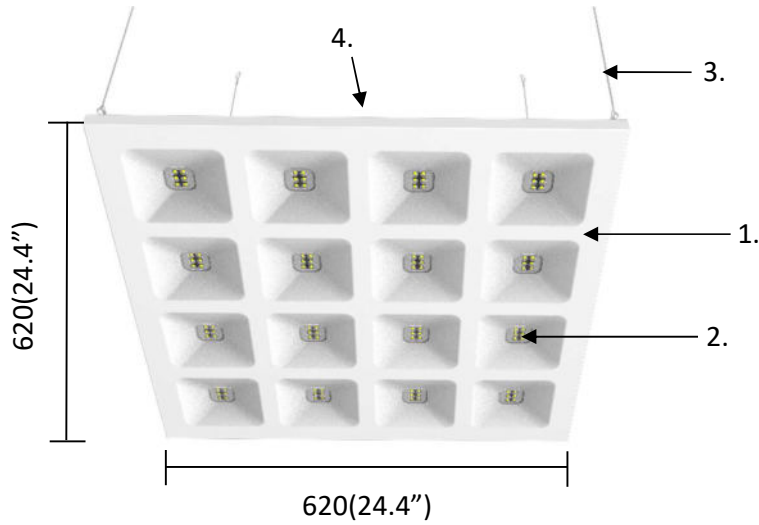
<b>Model</b>	Panel 620x620 mm
<b>Maximum Length</b>	620 ± 2 mm (24.4 ± 0.08 inch )
<b>Maximum width</b>	620 ± 2 mm (24.4 ± 0.08 inch )
<b>Maximum thickness</b>	with driver 46 ± 3 mm (1.81 ± 0.12 inch ) without driver 18 ± 3 mm (0.71 ± 0.12 inch )
<b>Mass</b>	2.7kg ± 270 g

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

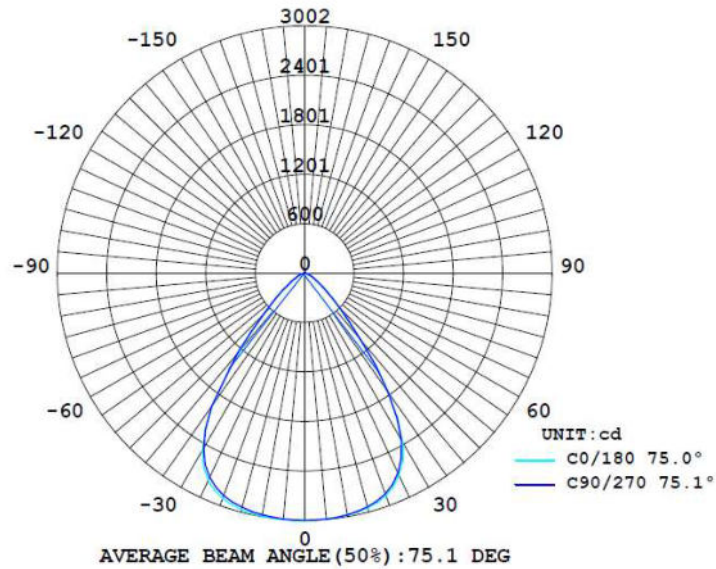


#### Material Information

- 1. Structure: SPCC
- 2. Lens: Plastic
- 3. Hanging wire: Stainless steel
- 4. Back plate: Galvanized iron

### 3. Light Distribution Curve

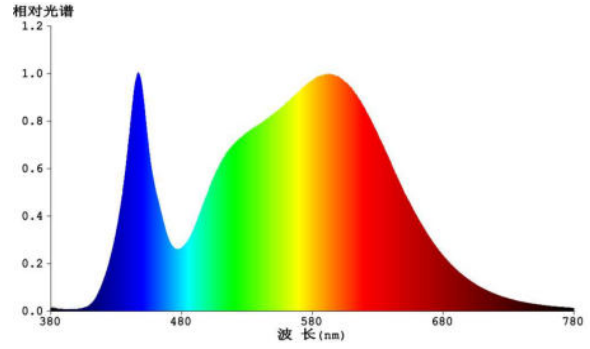
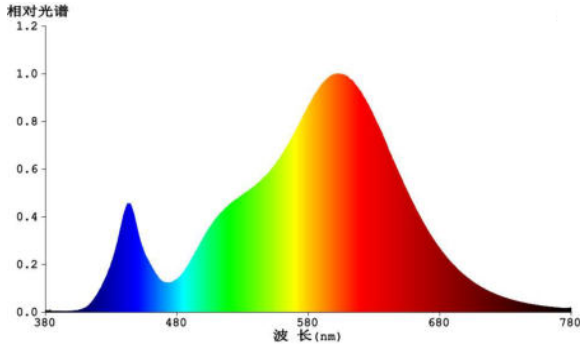
Full width at half maximum (FWHM) : 75°



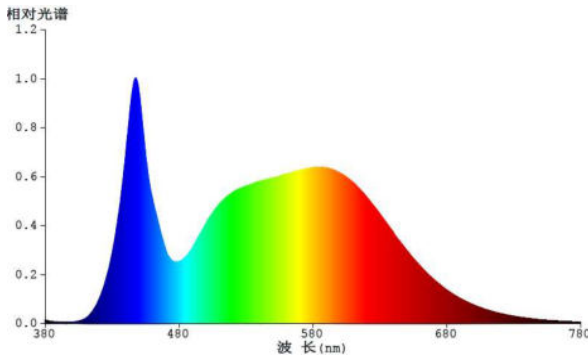
**4. Spectrum Distribution**

3000K: DELL-PL34040BBE022

4000K: DELL-PL44040BBE022



5000K: DELL-PL54040BBE022



**5. 4 levels of power adjustable drivers**

Current adjustment and corresponding parameters

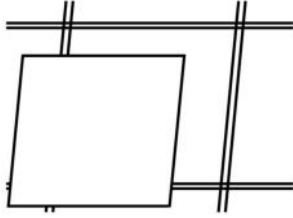
Switching selection sheet				
Pout Max.	Irated	Urated	Number "1"	Number "2"
34W	850MA	40V	■	■
36W	900MA	40V	ON	■
38W	950MA	40V	■	ON
40W	1000MA	40V	ON	ON

Note : ▲ means initial current    ■ means current adjustment cut off

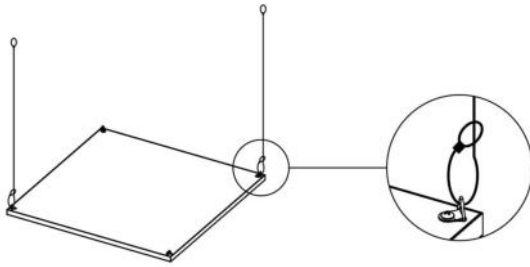
## 6. Installation Instructions

### 6.1 Recessed Installation

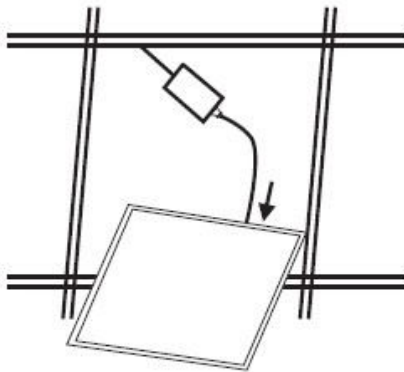
1. Remove the ceiling grid panel.



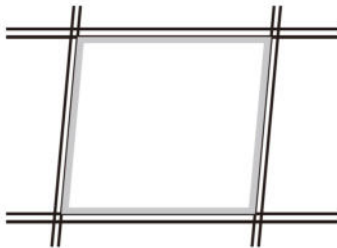
2. Fixation of the safety cable. Two safety cables respectively pass through the triangle anchors at the back side of LED panel and secure them to be fixed on the position.



3. Connect the wires of AC supply mains to the corresponding ports of LED power supply.

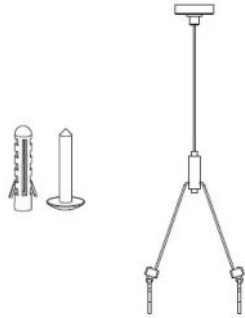


4. Insert the LED Panel into ceiling grid.



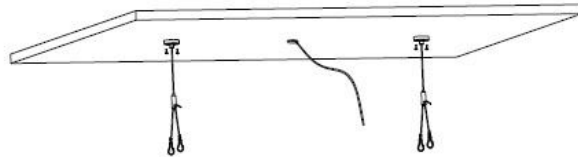
## 6.2 Suspended Installation

### 1. Accessories.

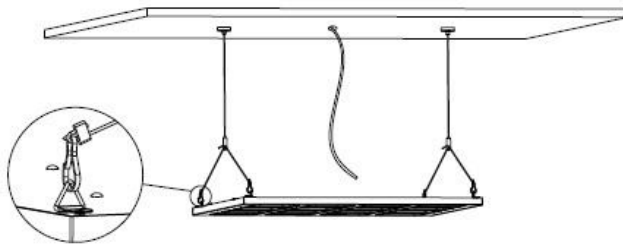


Hanging cable x 2 pcs  
Screw x 4 sets

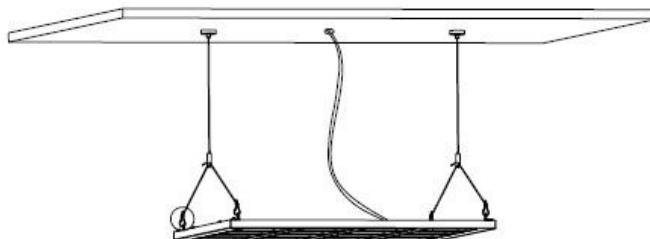
### 2. Install the hanging cables on the ceiling according to the size of LED panel.



### 3. Hook the hanging cables with the triangle anchors at the back side of LED panel and then adjust the length of hanging cables to the position.



### 4. Connect the wires of AC supply mains to the corresponding ports of LED power supply.



**7. 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.

**8. Cautions**

Not intended for use with emergency light fixtures for exit lights.

**9. 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.

**10. Logistic information**


Model	Panel 620x620 mm 3000K	Panel 620x620 mm 4000K	Panel 620x620 mm 5000K
Pieces per pack	1	1	1
EAN code on pack	4711112385584	4711112385591	4711112385607
Size of pack	L700*W655*H70	L700*W655*H70	L700*W655*H70
Weight per pack (G.W)	3.7kg	3.7kg	3.7kg
Packs per inner box	N/A	N/A	N/A
EAN code on inner box	N/A	N/A	N/A
ITF code on inner box	N/A	N/A	N/A
Size of inner box	N/A	N/A	N/A
Weight per inner box(G.W)	N/A	N/A	N/A
Packs per outer box	5	5	5
EAN code on outer box	N/A	N/A	N/A




<b>ITF code on outer box</b>	14711112385581	14711112385598	14711112385604
<b>Size of outer box</b>	L670*W375 *H715	L670*W375 *H715	L670*W375 *H715
<b>Weight per outer box(G.W)</b>	21.3kg	21.3kg	21.3kg

**Packing Photograph**


DELL-PL34040BBE022



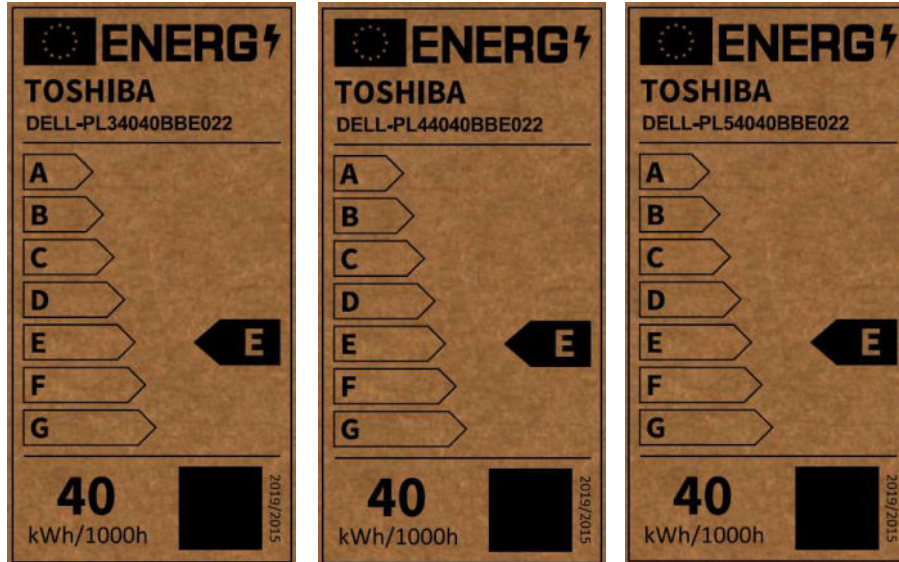
DELL-PL44040BBE022



DELL-PL54040BBE022



**11. ERP Label**



\*Suppliers have to use the EPREL official website to generate a QR-code by a pre-registration.

**12. Conformity**

<b>2014/35/EU; Low Voltage Directive</b>	EN 60598-1:2015+A1:2018 、 EN 60598-2-2:2012 EN 62493:2015 、 IEC/TR 62778: 2014
<b>2014/30/EU; EMC Directive</b>	EN IEC 55015: 2019+A11:2020 、 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)2015/863; RoHS Directive</b>	EN 50581: 2012

**13. 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.

**14. Manufacturer**

EPILEDS TECHNOLOGIES, INC.

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