Distributor: Westnet Distribution Single Member S.A.

Authorized distributor appointed by the brand's licensee.

PRODUCT DATASHEET

LED A Lamp - A60 Bulb 8.5W

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TOSHIBA

1. TECHNICAL DATA

A. GENERAL DATA

MODEL	**A60 8.5W** 2700K	**A60 8.5W** 3000K	**A60 8.5W** 4000K	**A60 8.5W** 6500K
P/N	DELS-BLW48P5B0AE21	DELS-BL348P5B0AE21	DELS-BL448P5B0AE21	DELS-BLC48P5B0AE21
P/N (3 PACK)	DELS-BLW48P5B0AE23	DELS-BL348P5B0AE23	DELS-BL448P5B0AE23	DELS-BL548P5B0AE23
Westnet code	00178033	00168800	00168802	00168804
Westnet code (3 PACK)	00178034	00168871	00168876	00168877
EAN code on pack	4711112389483	4711112384426	4711112384433	4711112384440
EAN code on pack (3 PACK)	4711112389490	4711112385058	4711112385355	4711112385362 (5000K)
EAN code on inner box	N/A			
ITF code on inner box	N/A			
ITF code on outer box	14711112389480	14711112384423	14711112384430	14711112384447
ITF code on outer box (3 PACK)	34711112389491	34711112385059	34711112385356	34711112385363

B. ELECTRICAL DATA

Rated Voltage	230V AC
Frequency	50 Hz
Rated Wattage	8.5W
Deviation Tolerance of Wattage	±10 %
Rated Current	0.07 A
Maximum Input Current	0.085 A
Type of current	AC
Power factor λ	>0.5
Displacement factor (cos φ1)	>0.5
Start On	<0.5S
Warm up time	<1S

C. PHOTOMETRICAL DATA

COLOR	Soft White	Warm White	Neutral White	Cool White
Color Temperature (CCT)	2700K	3000K	4000K	6500K
Total luminous flux (lm)	806 lm			
Luminous efficacy	94.82 lm/W			
Useful luminous flux Φuse (lm)*1	806 lm			
Total Mains Efficacy ηTM*2	94.82 lm/W			
Peak luminous intensity (cd)	Non-directional			
Colour Rendering Index*3	≧80			
R9 CRI*3	>1			
Directional lamp	No			
Beam Angle	180°			
Beam angle correspondence*4	Sphere cone			
Energy Efficiency Class (EEC)	F			
Stroboscopic effect metric (SVM) *5	≦0.4			
Flicker metric (PstLM) *5	≦1			
Color Consistency*6	6 Step MacAdam Ellipse (6 SDCM)			
Photobiological safety group acc. to EN62778	RG0			

*1 Useful luminous flux Φuse (lm): The determined value shall not be less than the declared value minus 10%.

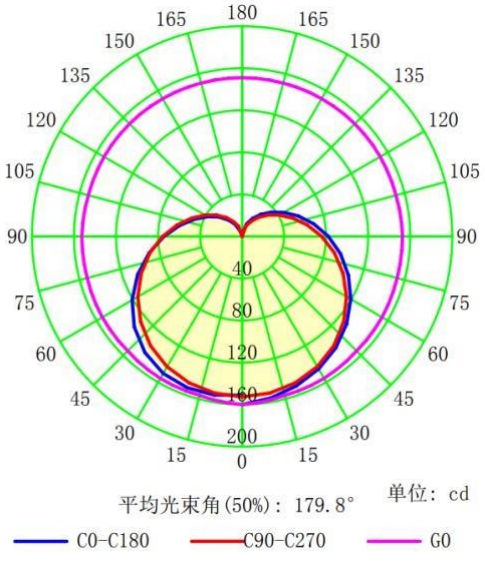
*2 Total Mains Efficacy ηTM = (Φuse / Pon) x FTM (lm/W).

*3 The determined value shall not be less than the declared value by more than 2,0 units.

*4 Beam angle correspondence: Non-directional: Sphere or Directional: Wide cone and Narrow cone.
Wide cone: Bean angle ≧ 90°(Φ120°, in a 120°cone)、Narrow cone: Bean angle ＜ 90°(Φ90°, in a 90°cone)

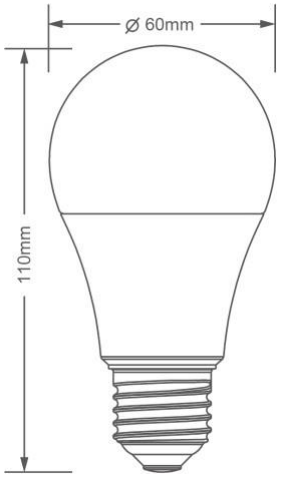
*5 In accordance with (EU)2019/2020 of SVM ≤ 0,4 at full-load (except for HID with Φuse > 4 klm and for light sources intended for use in outdoor applications, industrial applications or other applications where lighting standards allow a CRI< 80)

*6 2700K center point (0.458, 0.410) ; 3000K center point (0.4338, 0.403) ;4000K center point (0.38177, 0.37959), 6500K center point (0.31230, 0.32825).



D. GEOMETRIC DATA

Maximum diameter	60 ± 2 mm
Maximum overall length	110 ± 2 mm
Mass	33 g ± 5g



E. MATERIALS & Colors

Cover color	Frosted
Housing color	White
Body material	Plastics
Cover material	Plastics

F. APPLICATION & MOUNTING

Ambient temperature range	-20 ºC ~ 40 ºC
Temperature range at storage	-30 ºC ~ 80 ºC
Light source cap-type (or other electric interface)	E27
Incandescent Equivalent	60W
Type of protection	IP20
Protection class IK (shock resistance)	N/A
Dimmable	Non-dim
Type of dimming	N/A
Application environment	Dry locations; Not suitable for totally enclosed fixtures
Adjustable	N/A
LED module replaceable	Not replaceable
With light source	Yes

G. LIFESPAN

(Supplied Voltage:AC230V; Ambient Temperature: 25ºC)

Survival factor	90%
Lumen Maintenance Factor	96%
Lifespan L70/B50 at 25 °C	15,000 h

H. 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 (DlBP)	

2. WARNINGS

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

3. 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.

4. 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.

5. LOGISTIC INFORMATION

MODEL-Single PACK	**A60 8.5W** 2700K	**A60 8.5W** 3000K	**A60 8.5W** 4000K	**A60 8.5W** 6500K
Pieces per pack	1	1	1	1
Size of pack	60 * 60 * 120mm	60 * 60 * 120mm	60 * 60 * 120mm	60 * 60 * 120mm
Weight per pack (G.W)	43g± 5%	43g± 5%	43g± 5%	43g± 5%
Packs per 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	100	100	100	100
Size of outer box	620*320*260mm	620*320*260mm	620*320*260mm	620*320*260mm
Weight per outer box (G.W)	5.1kg± 5%	5.1kg± 5%	5.1kg± 5%	5.1kg± 5%

MODEL-3 PACK	**A60 8.5W** 2700K	**A60 8.5W** 3000K	**A60 8.5W** 4000K	**A60 8.5W** 6500K
Pieces per pack	3	3	3	3
Size of pack	182 * 62 * 122mm	182 * 62 * 122mm	182 * 62 * 122mm	182 * 62 * 122mm
Weight per pack (G.W)	122g± 5%	122g± 5%	122g± 5%	122g± 5%
Packs per 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	90	90	90	90
Size of outer box	565*230*265mm	565*230*265mm	565*230*265mm	565*230*265mm
Weight per outer box (G.W)	4.5 kg± 5%	4.5 kg± 5%	4.5 kg± 5%	4.5 kg± 5%

6. CONFORMITY

2014/35/EU; Low Voltage Directive	EN 62560:2012+A1:2015、EN62471:2008 EN 62493:2015、IEC/TR 62778: 2014
2014/30/EU; EMC Directive	EN 55015: 2013+A12015、EN 61000-3-2:2014、EN 61000-3-3: 2013 EN 61547:2009
2009/125/EC; (EU)2017/1369 ErP Directive	(EU) 2019/2015、(EU) 2019/2020、(EU) 2021/340、(EU) 2021/341
2011/65/EU+(EU)2015/863+ (EU)2020/659 RoHS Directive	EN IEC 63000 : 2018

7. ACCESSORIES

N/A

8. APPLICABLE COUNTRIES

Albania, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Romania, Serbia, Spain, Sweden, Switzerland, United Kingdom, Hungary, Poland, Slovakia, Latvia, Lithuania, Bosnia Herzegovina, North Macedonia, Montenegro, Turkey.

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

9. MANUFACTURER AND BRAND LICENSE

EPILEDS TECHNOLOGIES, INC.

Authorized Licensee for TOSHIBA trademark