Distributor: Westnet Distribution Single Member S.A.

Authorized distributor appointed by the brand's licensee.

PRODUCT DATASHEET

LED FLOODLIGHT 180D BRACKET 20W

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TOSHIBA

1. TECHNICAL DATA

A. GENERAL DATA

MODEL	**FL 180D** 3000K	**FL 180D** 4000K	**FL 180D** 5000K	**FL 180D** 6500K
P/N (Black shell)	DELL-FL34020C5A011	DELL-FL44020C5A011	DELL-FL54020C5A011	DELL-FLC4020C5A011
P/N (White shell)	DELL-FL34020C5A021	DELL-FL44020C5A021	DELL-FL54020C5A021	DELL-FLC4020C5A021
Westnet code (Black shell)	00172835	00172834	00172833	00172832
Westnet code (White shell)	00173307	00173306	00173305	00173304
EAN code on pack (Black shell)	4711112386123	4711112383993	4711112385492	4711112386116
EAN code on pack (White shell)	4711112388615	4711112388608	4711112388592	4711112388585
EAN code on inner box	N/A			
ITF code on inner box	N/A			
ITF code on outer box (Black shell)	14711112386120	14711112383990	14711112385499	14711112386113
ITF code on outer box (White shell)	14711112388612	14711112388605	14711112388599	14711112388582

B. ELECTRICAL DATA

Rated Voltage	230 VAC
Frequency	50 Hz
Rated Wattage	20W
Deviation Tolerance of Wattage	±10 %
Rated Current	0.085 A
Maximum Input Current	0.098 A
Power factor λ	>0.9
Displacement factor (cos φ1)	>0.9
Protection class	Class I
Operating mode	Integrated LED driver
Start On	<0.5S
Warm up time	<1S

C. PHOTOMETRICAL DATA

COLOR	Warm White	Neutral White	Daylight White	Cool White
Color Temperature (CCT)	3000K	4000K	5000K	6500K
Total luminous flux (lm)	1800 lm			
Luminous efficacy	90 lm/W			
Useful luminous flux Φuse (lm)*1	1530 lm			
Total Mains Efficacy ηTM*2	89.96 lm/W			
Peak luminous intensity (cd)	670			
Colour Rendering Index*3	≧80			
R9 CRI*3	>1			
Directional lamp	Yes			
Beam Angle	120°			
Beam angle correspondence*4	Wide cone			
Energy Efficiency Class(EEC)	F			
Stroboscopic effect metric (SVM) *5	No Claimed			
Flicker metric (PstLM) *5	No Claimed			
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).

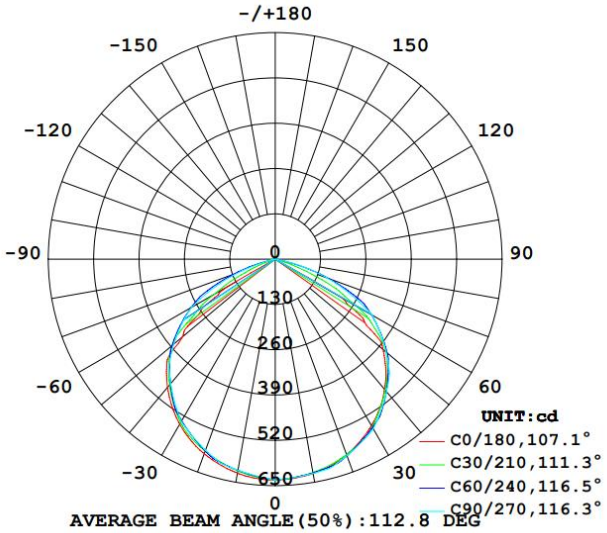
*3 The determined value shall not be less than the declared value by more than 2,0 units.

*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)

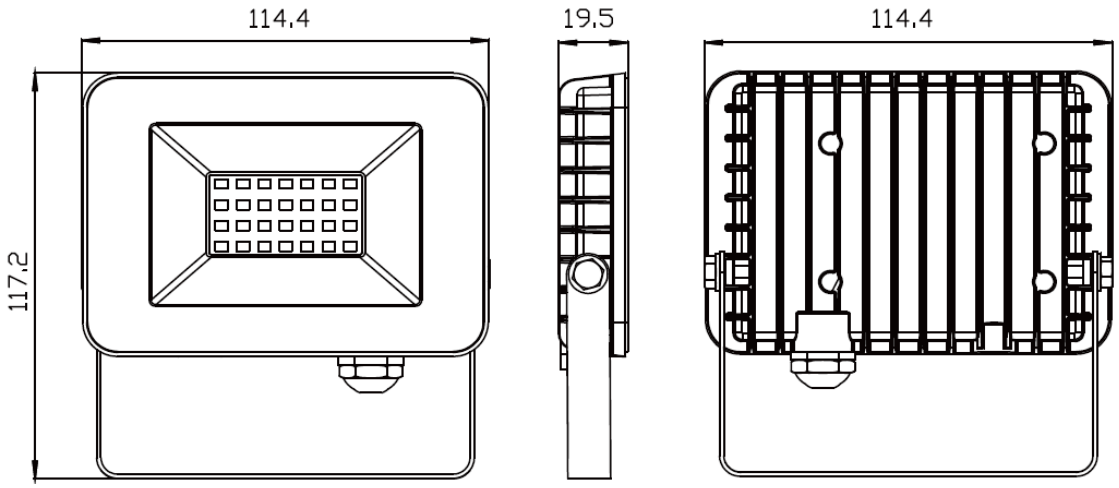
*5 In accordance with (EU)2019/2020 of SVM ≤ 0,4 at full-load (except for HID with Φuse > 4 klm and for light sources intended for use in outdoor applications, industrial applications or other applications where lighting standards allow a CRI< 80)

*6 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).



D. GEOMETRIC DATA

Maximum Length	117.2 ± 2 mm
Maximum Width	114.4 ± 2 mm
Maximum Thickness	19.5 ± 2 mm
Mass	210 g ± 10%



E. MATERIALS & Colors

Product color	Black / White
Housing color	Black / White
Body material	Die-cast aluminum alloy
Cover material	Glass

F. APPLICATION & MOUNTING

Ambient temperature range	-20 ℃ ~ 40 ℃
Temperature range at storage	-30 ℃ ~ 70 ℃
Type of connection	Cable, 3-Pole
Type of protection	IP65
Protection class IK (shock resistance)	N/A
Dimmable	Non-dim
Type of dimming	N/A
Mounting type	Surface
Mounting location	Wall / Ceiling / Floor
Application environment	Outdoor
Adjustable	Bracket rotates 180°
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 (DIBP)	

2. WARNINGS

- Before replacing, turn off power and let lamp cool to avoid electrical shock or burn.
- Do not touch electronic components, electronic components maybe under high voltage.
- Do not stare into LED light beam.
- The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.

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	FL 180D 3000K	FL 180D 4000K	FL 180D 5000K	FL 180D 6500K
Pieces per pack	1	1	1	1
Size of pack	121x30x128mm	121x30x128mm	121x30x128mm	121x30x128mm
Weight per pack (G.W)	0.235kg ± 5%	0.235kg ± 5%	0.235kg ± 5%	0.235kg ± 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	36	36	36	36
Size of outer box	380x202x276mm	380x202x276mm	380x202x276mm	380x202x276mm
Weight per outer box (G.W)	8.6Kg ± 5%	8.6Kg ± 5%	8.6Kg ± 5%	8.6Kg ± 5%

6. CONFORMITY

2014/35/EU; Low Voltage Directive	EN 60598-2-5: 2015 ; EN IEC 60598-1: 2021 ; IEC/TR 62778:2014 ; EN 62493:2015 ; EN IEC 62031:2020
2014/30/EU; EMC Directive	EN IEC 55015: 2019+A11:2020 、 EN IEC 61000-3-2:2019+A1:2021 、 EN 61000-3-3: 2013+A2:2021 、 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 50581: 2012

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