

# LED Flood Light IP65– 20W

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## 1. Specification:

### A. General Data

Model	LED Flood Light 20W			
<b>P/N(Black shell)</b>	DELL- FL34020C5A011	DELL- FL44020C5A011	DELL- FL54020C5A011	DELL- FLC4020C5A011
<b>Westnet Code</b>	00172835	00172834	00172833	00172832
<b>P/N(White shell)</b>	DELL- FL34020C5A021	DELL- FL44020C5A021	DELL- FL54020C5A021	DELL- FLC4020C5A021
<b>Westnet Code</b>	00173307	00172306	00172305	00172304
<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>	20 W	20 W	20 W	20 W
<b>Deviation Tolerance of Wattage</b>	±10 %	±10 %	±10 %	±10 %
<b>Displacement factor (cos φ1)*</b>	0.9(typical)	0.9(typical)	0.9(typical)	0.9(typical)
<b>Rated Current</b>	0.085A	0.085A	0.085A	0.085A
<b>Maximum Input Current</b>	0.098A	0.098A	0.098A	0.098A
<b>Start On</b>	<0.5S	<0.5S	<0.5S	<0.5S
<b>Warm up time</b>	<1S	<1S	<1S	<1S
<b>Dimmable</b>	NO	NO	NO	NO
<b>Beam Angle</b>	120°	120°	120°	120°
<b>Peak luminous</b>	670	670	670	670

intensity (cd)				
R9 CRI	>1	>1	>1	>1
Survival factor	90%	90%	90%	90%
Safety requirements	CE	CE	CE	CE
Lumen Maintenance factor	96%	96%	96%	96%
Stroboscopic effect metric (SVM)**	No Claimed	No Claimed	No Claimed	No Claimed
Flicker metric (PstLM)**	No Claimed	No Claimed	No Claimed	No Claimed
Energy Efficiency Class(EEC)	F	F	F	F
Applicable Environments	IP65	IP65	IP65	IP65
Exchangeable LED Module	NO	NO	NO	NO
Photobiological Group	RG 0	RG 0	RG 0	RG 0
Safety class	Class I	Class I	Class I	Class I

\* Displacement factor tolerance +/- 10%

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

## B. Light Data

Color	Warm White	Natural White	Daylight	Cool White
Color Temperature (CCT)	3000K	4000K	5000K	6500K
Useful luminous flux*	1530 lm			
Total luminous flux*	1800 lm			
Color Rendering Index*	80			
Efficacy ( Useful )*	76.5 lm/W	76.5 lm/W	76.5 lm/W	76.5 lm/W
Efficacy ( Total )*	90 lm/W	90 lm/W	90 lm/W	90 lm/W
Color Consistency**	6 Step MacAdam Ellipse (6 SDCM)			

\* tolerance +/- 10%

\*\*\* 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)

### C. Lifetime

(Supplied Voltage: AC 230V ; 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>Switch cycles</b>	≥ 15,000

### D. Temperature Operation

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

### E. Geometric Data

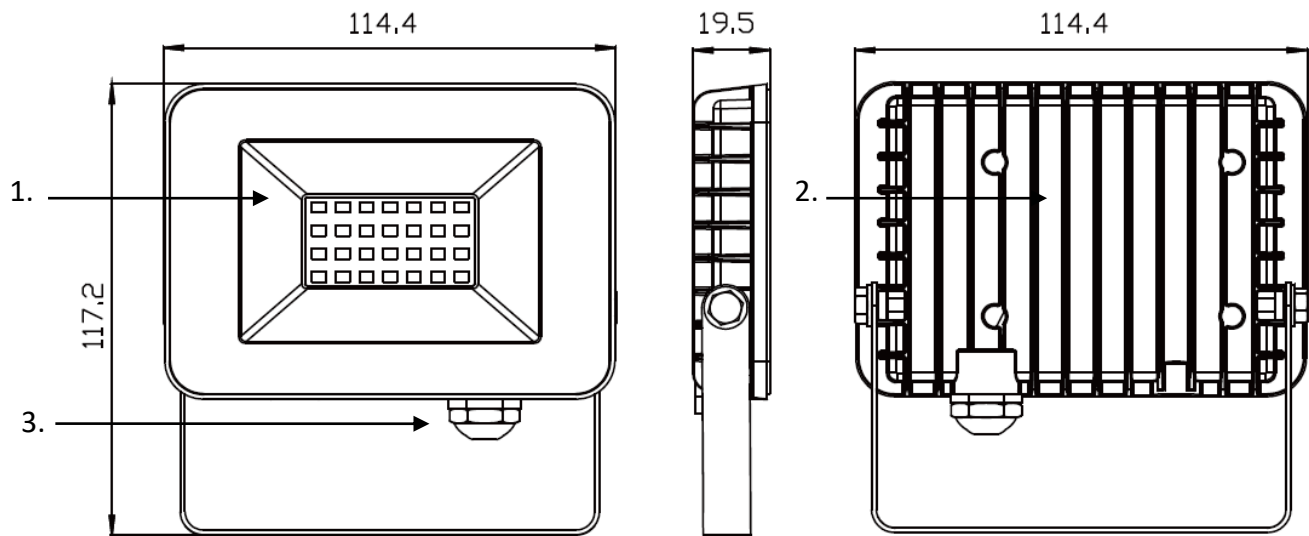
<b>Model</b>	LED Flood Light 20W
<b>Maximum overall length</b>	117± 2 mm ( 4.61 ± 0.08 inch )
<b>Maximum overall width</b>	114.4 ± 2 mm ( 4.50 ± 0.08 inch )
<b>Maximum overall thickness</b>	18.8 ± 2 mm ( 0.74 ± 0.08 inch )
<b>Mass</b>	210 g± 30g

### 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>Diisobutyl phthalate(DIBP)</b>	

## 2. Outline Drawing

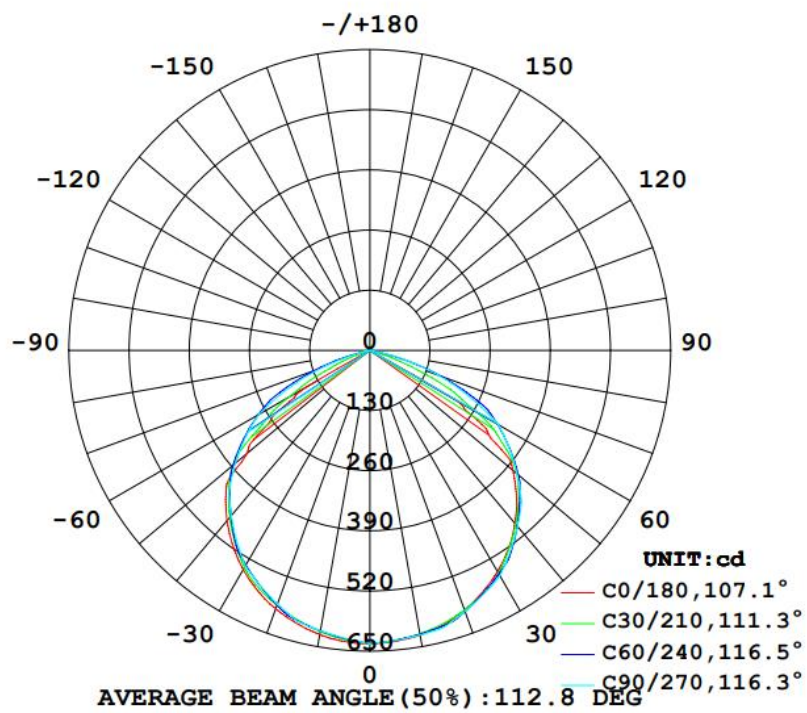
Unit : mm



### Material Information

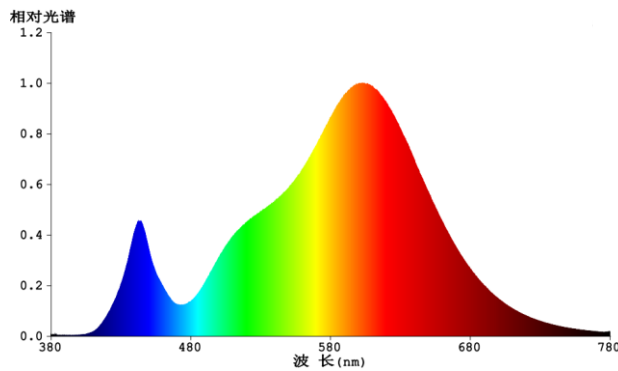
- 1. Cover: Glass
- 2. Body: Metal
- 3. Gland: Metal

## 3. Light Distribution Curve

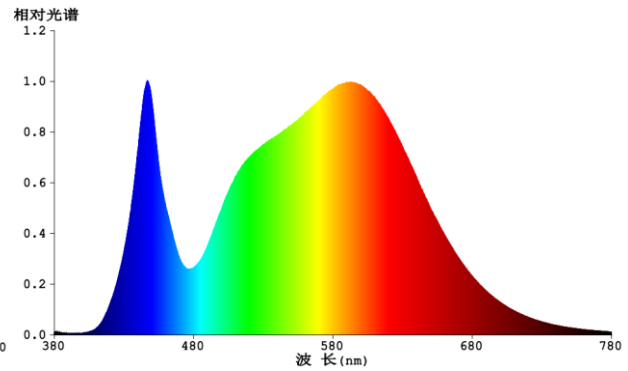


## 4. Spectrum Distribution

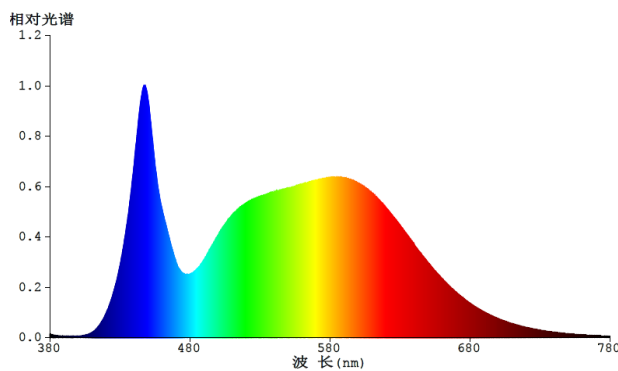
### ● 3000K Color Temperature



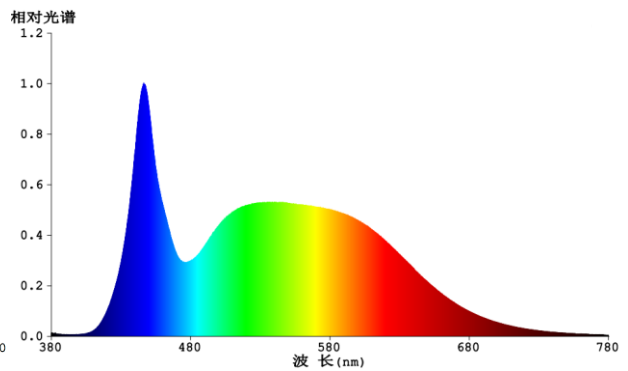
### ● 4000K Color Temperature



### ● 5000K Color Temperature



### ● 6500K Color Temperature



## 5. Warnings

- Before replacing, turn off power and let high bay 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.

## 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

Model	LED Flood Light 20W 3000K	LED Flood Light 20W 4000K	LED Flood Light 20W 5000K	LED Flood Light 20W 6500K
Pieces per pack	1	1	1	1
EAN code on pack -Black shell	4711112386123	4711112383993	4711112385492	4711112386116
EAN code on pack -White shell	4711112388615	4711112388608	4711112388592	4711112388585
Size of pack	121x30x128mm	121x30x128mm	121x30x128mm	121x30x128mm
Weight per pack (G.W)	0.235kg	0.235kg	0.235kg	0.235kg
Packs per inner box	N/A	N/A	N/A	N/A
EAN code on inner box	N/A	N/A	N/A	N/A
ITF code on 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
EAN code on outer box	N/A	N/A	N/A	N/A
ITF code on outer box -Black shell	14711112386120	14711112383990	14711112385499	14711112386113
ITF code on outer box -White shell	14711112388612	14711112388605	14711112388599	14711112388582
Size of outer box	380x202x276mm	380x202x276mm	380x202x276mm	380x202x276mm
Weight per outer box(G.W)	8.6Kg	8.6Kg	8.6Kg	8.6Kg

Package box

3000K



4000K



5000K

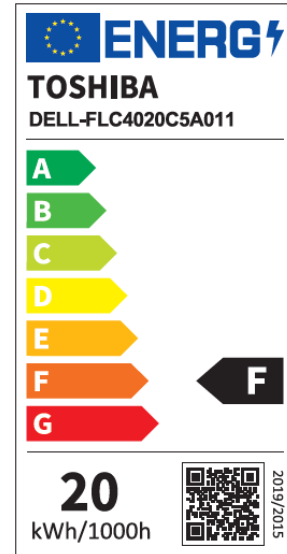
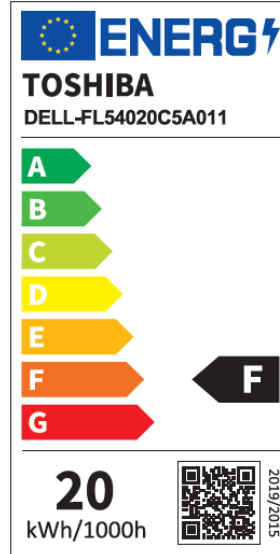
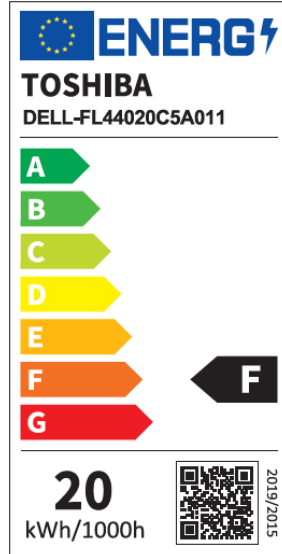
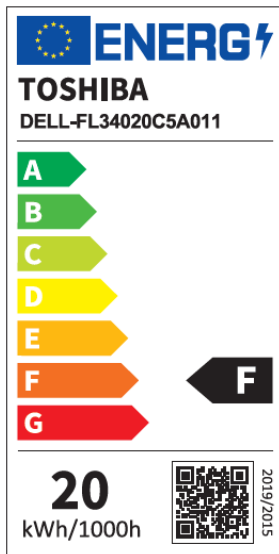


6500K

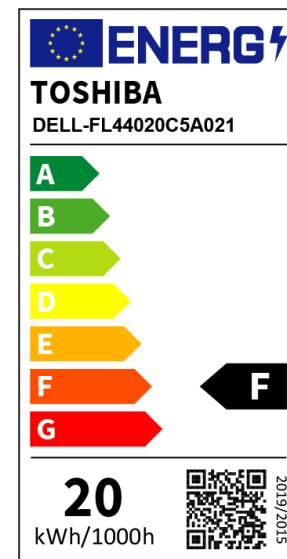
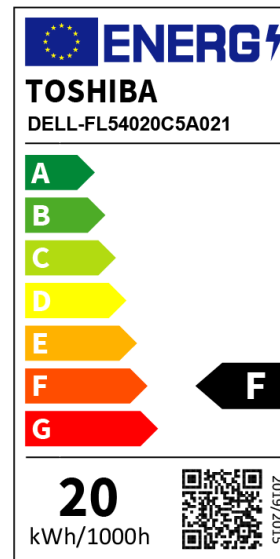
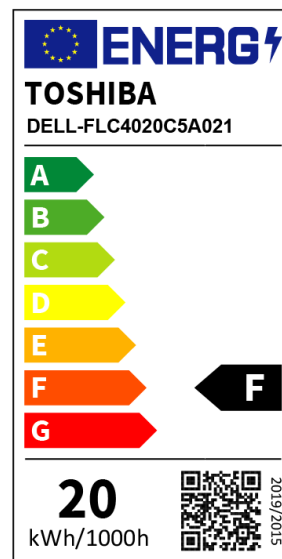
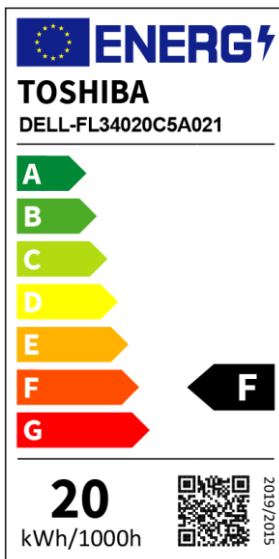


## 9. ERP Label

DELL-FL34020C5A011 / DELL-FL44020C5A011 / DELL-FL54020C5A011 / DELL-FLC4020C5A011



DELL-FL34020C5A021 / DELL-FL44020C5A021 / DELL-FL54020C5A021 / DELL-FLC4020C5A021





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