



Lighting Best International Ltd.

Product specification



Model No.: L B - F S 5 0 0

Product name:

250W-500W LED flood light.

1. Main picture



front view



back view

2. product feature

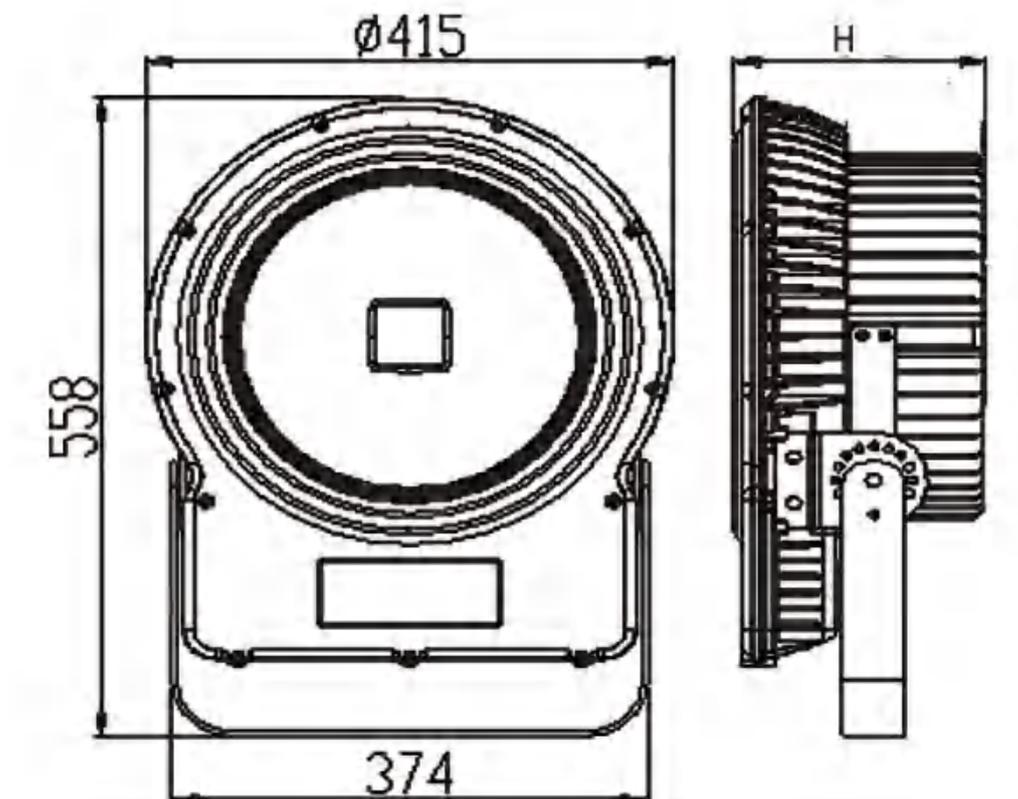
1. power range: 250 ~ 500W;
2. high-quality die-cast aluminium shell, combine with extruded 6063 aluminium heatsink, excellent heat transfer and dissipation effect, the product light decay is very small; it is solid , durable and long lifetime;
3. flip-chip COB light source, never burnt, zero failure for more than 5years;
4. Optical toughened glass lens combine with built-in aluminium reflector, dust-proof, corrosion-proof, anti-oxidation, weather resistance, strong marine resistance, wear resistance; easy to maintain.
5. IP grade :Ip65.
6. certification: CE, Rohs, UL listed



3. Quick Details

Keyword:	LED flood light	Model Number:	LB-FS500-WAAA, LB-FS500-WBBB
power range	250 ~ 600W	main material of Housing	ACD12 Die-cast housing combine with extruded 6063 aluminum heatsink,
support customize	yes	optical structure design	optical glass combine with built-in aluminium reflector
Input Voltage(V):	AC100 ~ 240V/50/60HZ	power factor	> 0.95
Driver Brand:	Meanwell/sosun/lightingbest/others	Extra function optional /Smart Functions:	Dimming/DALI /emergency lighting/ motion sensor/ZIGBEE intelligent control
Place of Origin:	China	product Brand:	lightingbest or customize
LED Chip Brand:	citizen/bridgelux/SANAN/others	Luminous Efficiency(lm/w):	max150LM/W(when CCT6000K)
LED type	flip-chip COB	Beam angle:	90°
Color Temperature(CCT):	3000k-6500k optional	CRI (Ra>):	70 ~ 90 optional
lifetime(Hours)	50000	Warranty	3 ~ 5 Years
certificate	CE、Rohs、UL	IP Rating:	IP65 Waterproof
Working Temperature(°C):	-30°C ~ +60°C	storage temperature	-35°C ~ +65°C
packing size (power 250W)	590*440*230(mm)	(power 250W)	12/13.2(kg)
(power 300W)	440*590*245mm	(power 300W)	14/15.5(kg)
(power 400W)	440*590*270mm	N.W./G.W. (power 400W)	15.5/17(kg)
(power 500W)	440*590*295mm	(power 500W)	17.5/19(kg)

4.1 product dimension



4.2 product details

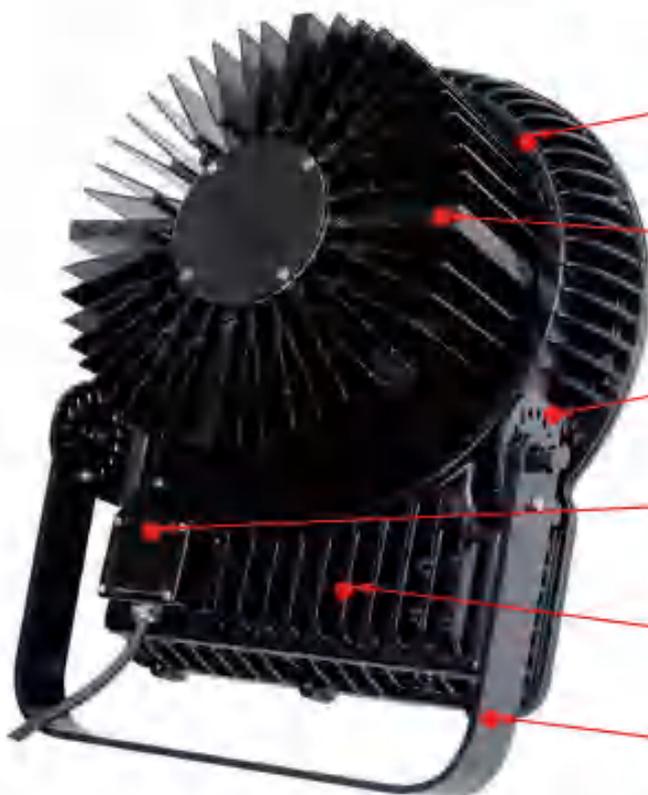


high quality die-cast aluminium Top shell

high efficiency aluminium reflector

high efficiency & Luminous efficiency flip-chip COB

316 stainless steel screws



high quality die-cast aluminium Bottom shell

high quality extruded aluminium heatsink built-in copper heat pipe

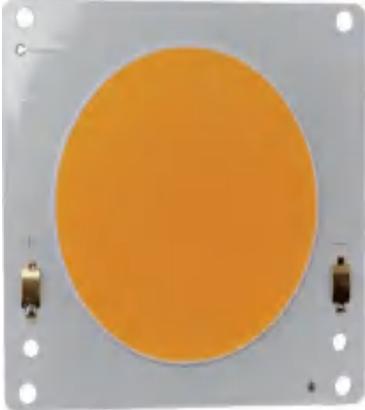
steel compass for mounting U bracket

junction box for power cable

driver box

6mm thickness painted steel U bracket, it can rotate 180°

4.3 LED : flip-chip COB

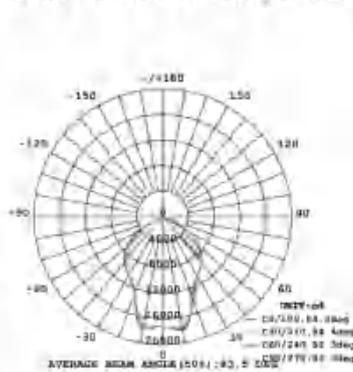


never burnt, zero failure for more than 5 years

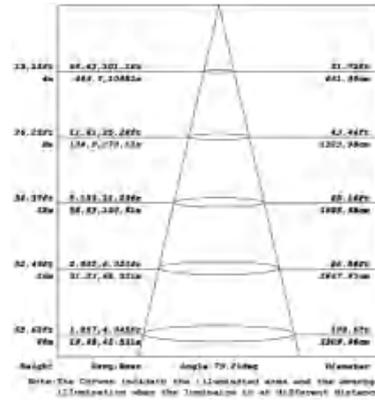
1. adopts vertical packaging structure, no sapphire heat dissipation layer, no golden wire welding, the chip is in direct contact with the heat dissipation base, so that the heat of the LED chip can be emitted quickly, can withstand higher temperature and load large electric current;
2. the size can be smaller, the optics are easier to design, especially for outdoor lighting with high power and small beam angle, this is much better than SMD lights;
3. since of better heat dissipation, so the lifetime of the chip has been improved a lot, light decay is smaller;
4. better of antistatic ability, more suitable for outdoor complicated environment of surrounded by other electrical appliances;
5. our company has adopted flip-chip COB light source for more than 5 years, it is **never burnt, zero failure**, if you use our flip-chip COB products, we promise **the warranty of light source will extend 1 year based on the warranty of product.**

4.4 optical parameter and lights distributor curve

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



beam angle:50°



when power:300W

4.5 IP grade:IP 65



4.6 U L certificate

CERTIFICATE OF COMPLIANCE

Certificate Number 20150211-E472884
Report Reference E472884-20150129
Issue Date 2015-FEBRUARY-11

Issued to: LIGHTING BEST INTERNATIONAL LTD
ZONE A FL12,BLDG 22 CHUANGYE INDUSTRIAL ZONE
SHAPUWEI COMMUNITY SONGGANG ST BAOAN
SHENZHEN ,518104 CHINA

This is to certify that representative samples of LIGHT-EMITTING-DIODE SURFACE-MOUNTED LUMINAIRES Suitable for wet Locations, Models: LB-DM500-WAAA, LB-DM500-WBBB, LB-DM500-WAAA, LB-DM500-WBBB, LB-FS100-WAAA, LB-FS115-WAAA, LB-FS200-WAAA, LB-FS225-WAAA, LB-FS290-WAAA, LB-FS300-WAAA, LB-FS350-WAAA, LB-FS350-WBBB, LB-FS408-WAAA, LB-FS408-WBBB, LB-FS408-WCCC, LB-FS500-WAAA, LB-FS500-WBBB, LB-ID320-WCCC, LB-ID320-WDDD, LB-IM160-WAAA, LB-IM160-WBBB, LB-IM160-WCCC, LB-IM200-WAAA, LB-IM200-WBBB, LB-IM250-WAAA, LB-IM320-WAAA, LB-IM320-WBBB, LB-IM320-WCCC, LB-IM320-WDDD, LB-IS200-WBBB, LB-RS530-WAAA, LB-RS595-WAAA, LB-RS600-WAAA.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 1598 and CSA C22.2 No. 250.0-08 - Luminaires
UL 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

B. Mahrenholz

Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contact-us.



4.7 CE , R ohs & Ip65 certifiacte



Certificate of Compliance

REPORT NO: TCD2013102310303E-1
 CERTIFICATE NO: TCD2013102310303E-1

This is to certify that, on the basis of the tests undertaken as per Report No.: TCD2013102310303E-1, the submitted sample of the above item complies with:

EN 60598-1:2008+A1:2007+A2:2008
 EN 61047:2009
 EN 61000-3-2:2006+A1:2009
 EN 61000-3-3:2008

And fulfills testing requirement of the EMC directive 2004/108/EC

Model:	LB-F5125-W101, LB-F5225-W030, LB-F5305-W050, LB-FD425-W060, LB-FD425-W120, LB-FD425-W140, LB-FD425-W180, LB-FM200-W030, LB-T3305-W030, LB-T3305-W090, LB-T3305-W100, LB-TD450-W100, LB-TD450-W160, LB-TD450-W180, LB-TD450-W120, LB-TD450-W140, LB-TD450-W160, LB-F5135-W010, LB-F5195-W020, LB-F5235-W030, LB-F5300-W050, LB-F5300-W100, LB-F5300-W180, LB-F5300-W200, LB-F5300-W240, LB-F5300-W280, LB-F5300-W300, LB-F5300-W320
Product:	LED Flood Light
Applicant:	Lighting Best International Limited
Address:	F12, bldg 22(Pujing Semiconductor Ind Park), Chuangye Ind. Zone, Shapuwai Community, Songgang St, Baoan, Shenzhen
Manufacturer:	Lighting Best International Limited
Address:	F12, bldg 22(Pujing Semiconductor Ind Park), Chuangye Ind. Zone, Shapuwai Community, Songgang St, Baoan, Shenzhen




Shenzhen TCD Testing Technology Co.,LTD
 Tel: 8755-2976 8321 Fax: 8755-2978 1725
 #F, Lianheng Building, Guohu 1 Road, Xixiang Street, Baoan District, Shenzhen, Guangdong, China



Certificate of Compliance

REPORT NO: TCD0913102310303E-1
 CERTIFICATE NO: TCD0913102310303E-1

This is to certify that, on the basis of the tests undertaken as per Report No.: TCD0913102310303E-1, the submitted sample of the above item complies with:

EN 60598-1:2008+A1:2008

And fulfills testing requirement of the LVD directive 2006/95/EEC

Model:	LB-F5125-W101, LB-F5225-W030, LB-F5305-W050, LB-FD425-W060, LB-FD425-W120, LB-FD425-W140, LB-FD425-W180, LB-FM200-W030, LB-T3305-W030, LB-T3305-W090, LB-T3305-W100, LB-TD450-W100, LB-TD450-W160, LB-TD450-W180, LB-TD450-W120, LB-TD450-W140, LB-TD450-W160, LB-F5135-W010, LB-F5195-W020, LB-F5235-W030, LB-F5300-W050, LB-F5300-W100, LB-F5300-W180, LB-F5300-W200, LB-F5300-W240, LB-F5300-W280, LB-F5300-W300, LB-F5300-W320
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Certificate of Compliance

REPORT NO: TCD2013102310303R-1
 CERTIFICATE NO: TCD2013102310303R-1

This is to certify that, on the basis of the tests undertaken as per Report No.: TCD2013102310303R-1, the submitted sample of the above item complies with:

EPA 3050B:1996, EN1122:2001
 EPA 3052:1996, EPA 3060A
 EPA 7196, EPA 3540C, EPA4270C

And fulfills testing requirement of the RoHS directive 2011/65/EU

Model:	LB-F5125-W101, LB-F5225-W030, LB-F5305-W050, LB-FD420-W060, LB-FD425-W120, LB-FD425-W140, LB-FD425-W180, LB-FM200-W030, LB-T3305-W030, LB-T3305-W090, LB-T3305-W100, LB-TD450-W100, LB-TD450-W160, LB-TD450-W180, LB-TD450-W120, LB-TD450-W140, LB-TD450-W160, LB-F5135-W010, LB-F5195-W020, LB-F5235-W030, LB-F5300-W050, LB-F5300-W100, LB-F5300-W180, LB-F5300-W200, LB-F5300-W240, LB-F5300-W280, LB-F5300-W300, LB-F5300-W320
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Certificate of Compliance

REPORT NO: TCD0913102310304F-1
 CERTIFICATE NO: TCD0913102310304F-1

has been tested and found in compliance with the requirements of 47 CFR PART 15 Subpart C limits for radiation and conduction emissions

The method of testing was in accordance to the most accurate measurement standards possible and that all necessary steps have been enforced to assure that all production units of the same equipment will continue to comply with the Federal Communications Commission requirements

We, Shenzhen TCD Testing Technology Co.,LTD, here declare that the product referred below:

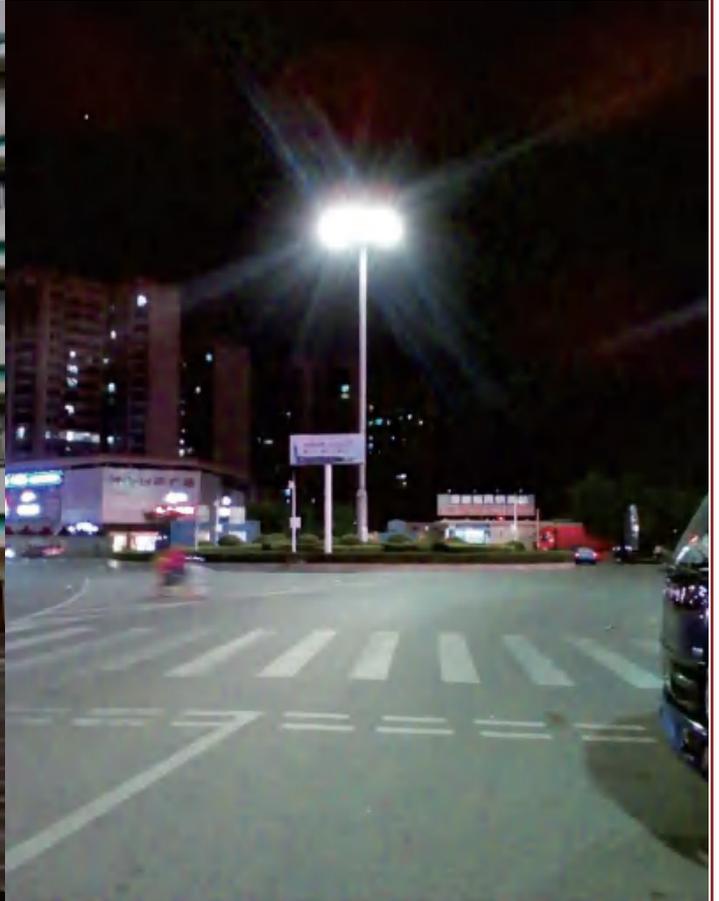
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5. application scene

general:Tunnel,Highway,Gas Station,Factory, Warehouse,Workshop,Square,Parking Lot, Supermarket,advertising lighting, Garden,Public place etc.



6 packing



7. contact us

Mobile/wechat/whatsapp/skype(same number)

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