BIG SHINE LED
BE BRILLIANT

Project:	
Model Number:	
Notes:	

Delta 3 Flood

LED EXPLOSION-PROOF FLOOD LIGHT

FEATURES

- High efficacy delivering up to 150 lm/W
- Dimmable 1-10 V
- Color temperatures available from warm white to cool white
- Red, green, blue, and amber CCT LED options available
- Seven power options between 30 W and 240 W
- Power factor >0.95
- Integrated 10 kV or 20 kV surge protection
- IP66 Rating and IK08 Rating
- Copper-free (<0.4%) aluminum housing, powder coating finish with tempered glass optics



REGULATORY QUALIFICATIONS

- UL 50, UL 50E
- UL 1598, UL 1598A
- UL 8750
- UL 844
- CSA C22.2 No. 94.1
- CSA C22.2 No. 94.2
- CSA C22.2 No. 137
- CSA C22.2 No. 250.0

NEC/CEC

- Class I, Division 2, Groups A, B, C, D
- Class II, Division 1, Groups E, F, G
- Class II, Division 2, Groups F, G
- Class III
- NEMA 4X IP66

APPLICATIONS

- Manufacturing: food, chemical, oil, gas
- Foundries
- Waste and sewage treatment plants
- Paint booths
- Paper mills
- Suitable for wet locations
- Suitable for marine locations

Big Shine LED is an LED lighting manufacturer, a division of technology company Big Shine Worldwide, Inc. With global manufacturing centers for continuity of supply, Big Shine LED designs lighting fixtures with premium components that meet international certifications.

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TECHNICAL DATA

BSL-EP[XX]-D3F-[XXXX]K

ELECTRICAL DATA				
MODEL	EP30-D3F	EP50-D3F	EP75-D3F	EP100-D3F
POWER CONSUMPTION (±5%)	30 W	50 W	75 W	100 W
INPUT VOLTAGE	120-277 VAC or 277-480 VAC			
POWER FACTOR	>0.95			
TOTAL HARMONIC DISTORTION	<20%			
SURGE PROTECTION	10 kV or 20 kV			
DRIVER TYPE	Constant Current			
CONTROL OPTIONS	No dimming, 1-10 V dimming			

OPTIC SPECIFICATIONS				
LUMINOUS FLUX (±10%)	4,500 lm	7,500 lm	11,250 lm	15,000 lm
EFFICACY @ 5000K Ra70	150 lm/W			
CORRELATED COLOR TEMPERATURE	2200 K, 2700 K, 3000 K, 3500 K, 4000 K, 5000 K, 5700 K, 6500 K			
COLOR RENDERING INDEX	Ra70, Ra80			
BEAM ANGLE	15°, 30°, 60°, 90°, 145°, 50x120° 30x60°, Tilt 10°, 30x140°, Tilt 55° 45x120°, Tilt 45°, 50x120°, Tilt 55° 65x120°, Tilt 55°, 30x90, Tilt 45° 7Hx6V			

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TECHNICAL DATA

BSL-EP[XX]-D3F-[XXXX]K

ELECTRICAL DATA			
MODEL	EP150-D3F	EP200-D3F	EP240-D3F
POWER CONSUMPTION (±5%)	150 W	200 W	240 W
INPUT VOLTAGE	100-277 VAC or 277-480 VAC		
POWER FACTOR	>0.90		
TOTAL HARMONIC DISTORTION	<20%		
SURGE PROTECTION	10 kV		
DRIVER TYPE	Constant Current		
CONTROL OPTIONS	No dimming		

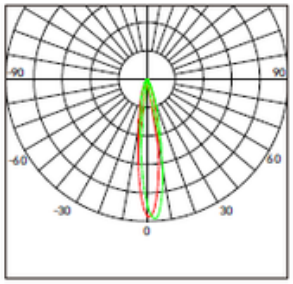
OPTIC SPECIFICATIONS			
LUMINOUS FLUX (±10%)	22,500 lm	30,000 lm	36,000 lm
EFFICACY @ 5000K Ra70	150 lm/W		
CORRELATED COLOR TEMPERATURE	2000 K, 2200 K, 2500 K, 2700 K, 3000 K, 3500 K, 4000 K, 4500 K, 5000 K, 5700 K, 6500 K; Red, Green, Blue, Amber		

OTHER TECHNICAL DATA	
OPERATING TEMPERATURE	-40° C to 45° C | -40° F to 104° F (up to 158° F for some classifications)
LIFESPAN OF LED @ Ta = 25° C	L90 = 48,000 hrs | L80 = 102,300 hrs | L70 = 164,000 hrs

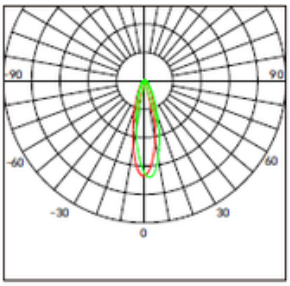
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PHOTOMETRIC DATA

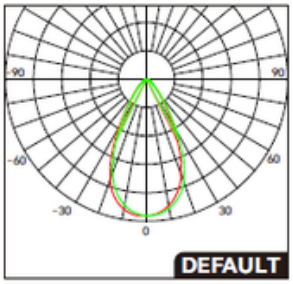
Distribution Options



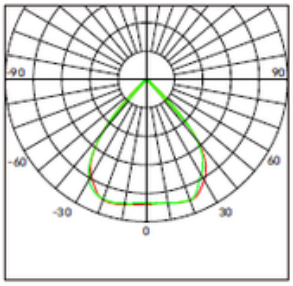
15°



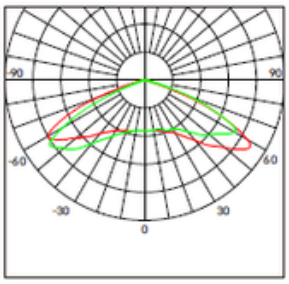
30°



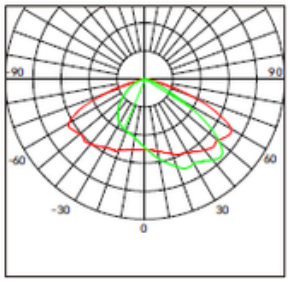
60°



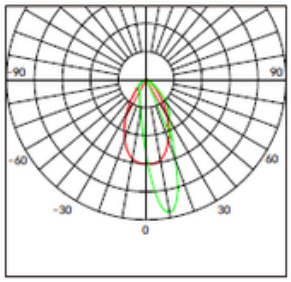
90°



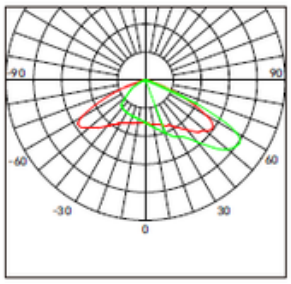
145°



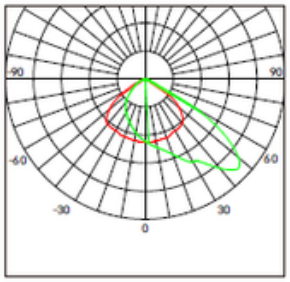
50x120°



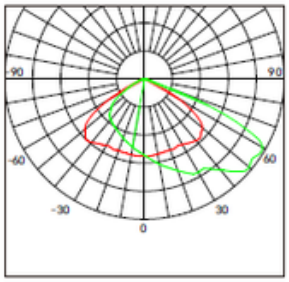
30x60 Tilt 10°



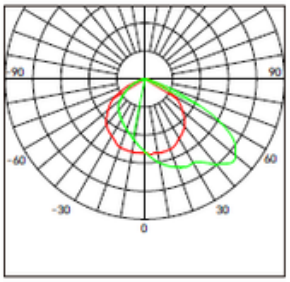
30x40 Tilt 55°



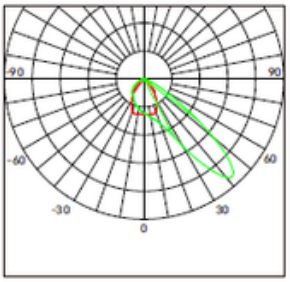
45x120° Tilt 45°



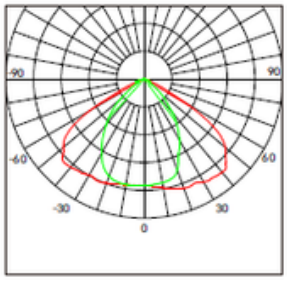
50x120° Tilt 55°



65x120° Tilt 55°



30x90° Tilt 45°

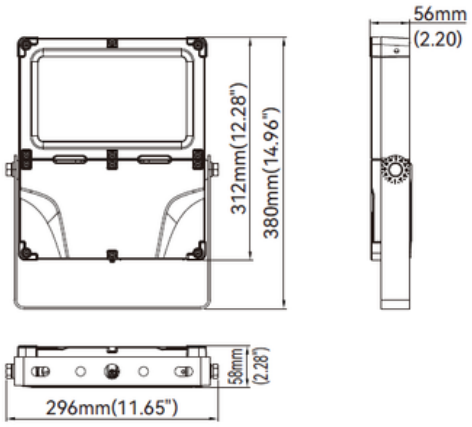


7Hx6V (30-100 W only)

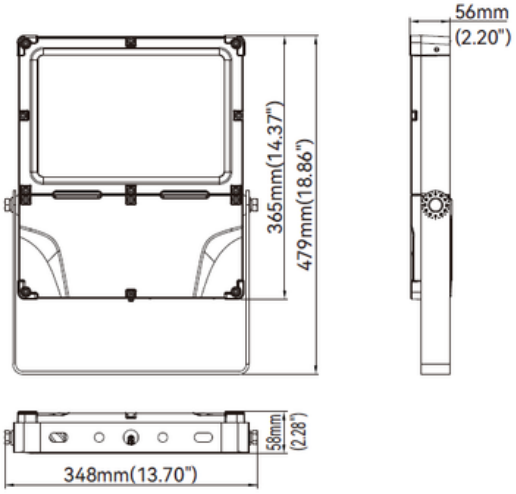
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DIMENSIONAL DATA

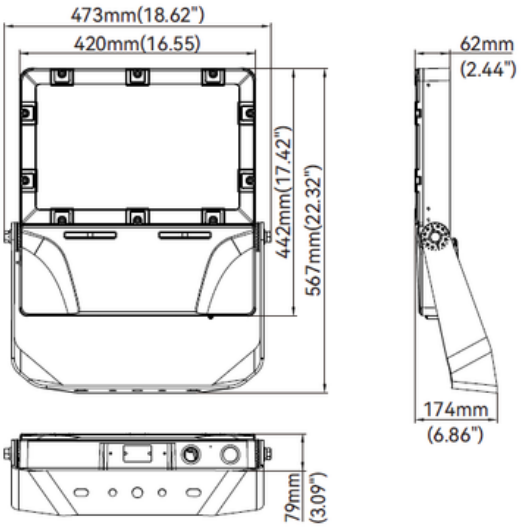
30W-50W



75W-100W



150W-240W



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ORDERING INFORMATION

BSL-EP[power option]-D3F-[CCT option]-[beam angle]-L[lens]-CGRY-D[dimming]-M[mounting option]-V[voltage]

Sample: BSL-EP100-D3L-4000K-113-LF-CGRY-D1-10V-MCL-V120-277

<table>
<tr><th>POWER</th><th>CCT</th><th>BEAM ANGLE</th><th>LENS</th><th>DIMMING OPTIONS</th><th>MOUNTING OPTIONS</th><th>VOLTAGE</th></tr>
<tr><td>30
50
75
100</td><td>2200 K
2700 K
3000 K
3500 K
4000 K
5000 K
5700 K
6500 K</td><td rowspan="2">15°
30°
60°
90°
145°
50x120°
30x60°
30x140°
45x120°
50x120°
65x120°
30x90
7Hx6V</td><td rowspan="2">C: Clear Glass</td><td>NA: No dimming

110V: 1-10 V</td><td rowspan="2">CL: Ceiling Mount

TR: Trunnion Mount

PT: Pendant Mount

LP: Loop Mount

HP: Hoop Mount</td><td>120-277: 120-277 VAC 50/60 Hz

277-480: 277-480 VAC 50/60 Hz</td></tr>
<tr><td>150
200
240</td><td>2000 K
2200 K
2500 K
2700 K
3000 K
3500 K
4000 K
4500 K
5000 K
5700 K
6500 K
Re: Red
Gr: Green
Bl: Blue
Am: Amber</td><td>NA: No dimming</td><td>100-277: 120-277 VAC 50/60 Hz

277-480: 277-480 VAC 50/60 Hz</td></tr>
</table>

*Accessories sold separately.

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WARRANTY



Big Shine LED products are covered by a five-year limited warranty against defects in materials. A fixture is considered defective if 10% or more of the LED fixture's components have failed. Visit our website to learn more about our product warranty: bigshineled.com/resources.

Covered Under Warranty:
Warranty Length: 5 years from purchase date (or installed date in some cases)
Coverage: Manufacturer defects in materials
Repair or Replacement: Big Shine LED may determine to repair or replace the product.

Not Covered Under Warranty:

- Damage caused by misuse, accidents, weather, improper installation, or unauthorized repairs.
- Using the product for something other than its intended purpose.

Visit our website to read the terms and conditions of our product warranty at bigshineled.com/resources.

How to Submit a Warranty Claim:
To submit a warranty claim, visit our website at bswpartnerhub.com or contact us at (845) 219-5548.

LED PREVENTATIVE MAINTENANCE

Implementing a preventative maintenance plan helps ensure optimal performance and longevity of LED lighting systems through regular inspections and upkeep. Here are some steps to take to keep LED lighting systems in good working condition, prevent malfunction, and extend their lifespan.

I. Maintenance schedule: The frequency of maintenance tasks will depend on the specific lighting system, its environment, and usage. As a general rule, LED fixtures should be inspected and cleaned at least once every six months. Tasks should be performed more frequently in high-traffic areas or in environments with excessive dust and debris.

II. Record keeping: It is also important to keep accurate records of all maintenance tasks performed on the lighting system. This information can be used to track the performance of the system, identify any trends or patterns, and schedule future maintenance tasks.

For a more detailed preventative maintenance plan, visit the Resource Center in our website at bigshineled.com/resources.

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DEFINITIONS

LM-80 Testing
The LM-80 test method that measures the lumen maintenance, or long-term light output, of an LED light source over a period of time. Big Shine LED fixtures are tested at three different temperatures for at least 6,000 hours and up to 10,000 hours. By measuring the LED's light output at regular intervals during this extended period, the LM-80 test can determine how the performance of the LED degrades over its lifespan. To obtain test results for individual Big Shine LED fixtures, visit our website or contact us at info@bigshineled.com.

TM-21 Method
TM-21 is a method for projecting the lumen maintenance and lifespan of an LED light source based on data collected from LM-80 testing. The data collected during the LM-80 testing must show a stable trend in lumen maintenance. The TM-21 calculates a decay rate based on the data, which shows how quickly the LED's brightness is diminishing over time. The TM-21 sets a limit on how far the projected lifespan can be estimated base on the LM-80 data. The lifespan cannot exceed six times the duration of the LM-80 testing. The extrapolation limit ensures that predictions made by the TM-21 are based on solid data and do not exceed too far beyond the actual testing period.

L70 Rating
The L70 is a measure of an LED's longevity. It represents the time it takes for the LED's brightness or lumen output to drop to 70% of its original level. In other words, it estimates how long the LED will last before it dims significantly.

L90 Rating
The L90 rating is similar to the L70 rating, but it measures a different level of light output maintenance in LEDs. This measures the time it takes for an LED light source to decrease to 90% of its original brightness or lumen output. It's a stricter standard compared to the L70 because it represents a higher level of light output maintenance. This rating is important for applications where higher light levels must be maintained for a longer period of time.

Total Harmonic Distortion (THD)
The Total Harmonic Distortion is a measure of the distortion in the electrical current caused by non-linear loads. THD is expressed as a percentage and represents the deviation of the current waveform from a perfect sinusoidal wave. Lower THD percentages in LED improve energy efficiency as the fixture has less wasted energy. It also extends the life of the LED fixture and other connected devices in a building's electrical system as less heat is generated in the electrical wiring and components, reducing the risk of overheating. Lower THD also improves power quality, causes less interference and enhances the reliability of the entire electrical system. To better understand the benefits of lower THD in LED fixtures, visit our website at bigshineled.com.

Power Factor
A higher power factor in LED fixtures means the fixture uses electrical power more efficiently. Less power is wasted in the form of reactive power, so the lighting system consumes less electricity overall. A higher power factor also improves the overall power quality of the electrical system, resulting in a more stable and consistent power supply, which benefits other devices connected to the same electrical network. Other benefits include reducing the load on the electrical grid, reducing heat generation, and enhancing the lifespan of all equipment on the system. For more details on power factor, visit our website at bigshineled.com.

Efficacy
The efficacy in an LED fixture refers to how efficiently the light converts electrical power into visible light. It's typically measured in lumens per watt, indicating how much light is produced for each watt of electricity used.

Luminous Flux
Luminous flux is the total amount of visible light emitted by a light source, measured in lumens. It represents the overall brightness of the light produced.

Dominant Peak Wavelength
It represents the wavelength that contributes most to the perceived color of the light source.

Full Width at Half Maximum (FWHM)
It is a measure of the spectral bandwidth of a light source. Specifically, it is the width of the spectral curve at half of its maximum intensity. A narrower FWHM indicates a more focused spectral distribution, while a wider FWHM suggests a broader spectral distribution.

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