Project:	
Catalog Number:	
Notes:	

Titan Beam

ARCHITECTURAL FLOOD AND SPOT LUMINAIRES

FEATURES

- Efficient Illumination: Delivers up to 170 lm/W.
- Precise Control: Designed beam angles (12°, 17°, 22°, 30°, 45°, 60°) minimize glare and ensure uniformity.
- Durable Build: Features a low-copper die-cast aluminum body, ZAM/SPCC steel bracket, and high-transmittance PC lens.
- Robust Protection: IK08 & IP66 rated for durability.
- Flexible Power: Full range (400W, 600W, 800W, 1200W) with 3-level switch adjustment.
- Versatile Installation: Infinitely adjustable angle; supports yoke or slipfitter mounts.
- Accessories: Multiple accessories available.

REGULATORY QUALIFICATIONS

- All variations are DLC-listed
- UL 1598 Ed. 5-2021

APPLICATIONS

- Sports Fields
- High Mast Areas
- Stadiums
- Outdoor Arenas
- Large Area Illumination

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.

TITAN BEAM FLOOD LIGHT

TECHNICAL SPECIFICATIONS

Model No.	TIB-400	TIB-600	TIB-800	TIB-1200	TIB-800H	TIB-1200H
Power Consumption (±10%)	400, 300, 200W (Selectable)	600W, 500W, 400W (Selectable)	800W, 600W, 400W (Selectable)	1200W, 1000W, 800W (Selectable)	800W	1200W
Driver Type	Constant current (CC)				Constant current (CC)	
Input Voltage	120V~277V / 200-480V, 50/60Hz				200V-480V 50/60Hz	277V-480V, 50/60Hz
Power Factor	>0.97					
Control	0-10V / Synapse				0-10V / PWM / DMX / RDM	

OPTIC SPECIFICATIONS

LED Type		LED 3737/LED 5050				LED3535-RGB	
Luminous Flux (±10%) @5000K Ra70 (lm)		400W: 66900~69100 300W: 52100~53100 200W: 36600~37700	600W: 97800~103600 500W: 83800~88700 400W: 68800~72700	800W: 132800~135800 600W: 102100~104800 400W: 70400~72300	1200W: 198200~205100 1000W: 169900~176100 800W: 139200~144700		
Efficacy (5000K Ra70)	LED 3737	165lm/W @5000K Ra70					
	LED 5050	170lm/W @5000K Ra70					
Correlated Color Temperature		5000K (4000K optional)				RGB	
Color Rendering Index		Ra70/ Ra80					
Beam Angle		F24001/F24002 /F24023/F2403/ F24004/F24006	F34801/F34802/ F34823/F34803/ F34804/F34806	F43201/F43202/ F43223/F43203/ F43204/F43206	F64801/F64802/ F64823/F64803/ F64804/F64806	F43201/ F43202/ F43223/ F43204/ F43206	F64801/ F64802/ F64823/ F64804/ F64806

TITAN BEAM FLOOD LIGHT

MOUNTING AND PRODUCT DIMENSIONS

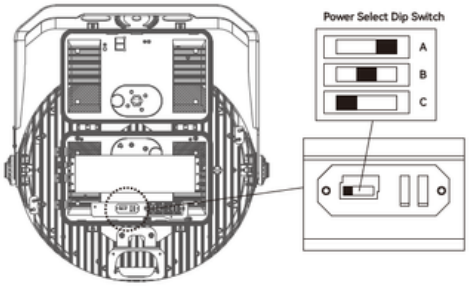
Product Dimension (mm/inch)	400x429x 246 (15.75x16.8 9x9.68")	426x490x 291 (16.77x19.29 x11.46")	526x564x 326 (20.71x22.20 x12.83")	581x648x 332 (22.87x25.51x 13.07")	526x564x 326 (20.71x22.2 0x12.83")	581x648x 332 (22.87x25.51 x13.07")
Luminaire Net Weight (kg/lbs)	12.52kg 27.60lbs	15.09kg 33.27lbs	21.07kg 46.45lbs	28.88kg 63.67lbs	21.95kg 48.39lbs	29.05kg 64.04lbs
Mounting Option	U-Bracket, Slipfitter					
Material	Aluminum alloy					
Lens	Polycarbonate lens					
Fixture Color	Gray (RAL870-3)					
IK Rating	IK08					
IP Rating	IP66					

LIFESPAN AND WARRANTY

Operating Temperature	**120~ 277V**	-30℃ to +45℃ (-22 to +113°F)	-30℃ to +40℃ (-22°F to +104°F)	-30℃ to +50℃ (-22°F to +122°F)
	200~ 480V	-30℃ to +50℃ (-22°F to +122°F)		
Warranty	5 Years			

NEW FEATURES

Adjustable power and CCT by DIP switch



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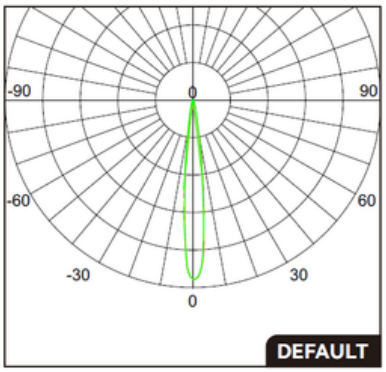
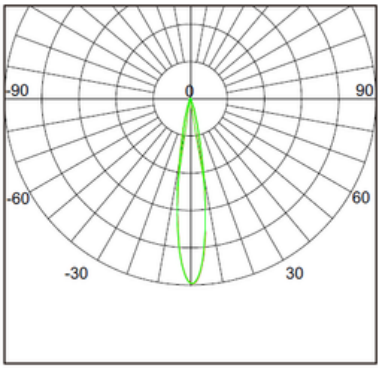


12° F24001
400W Beam Angle



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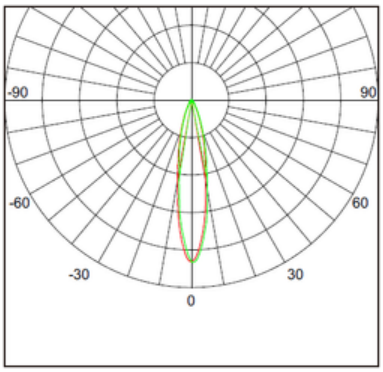
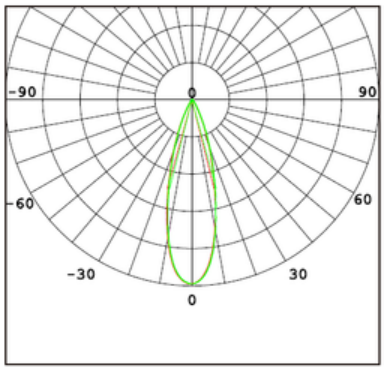
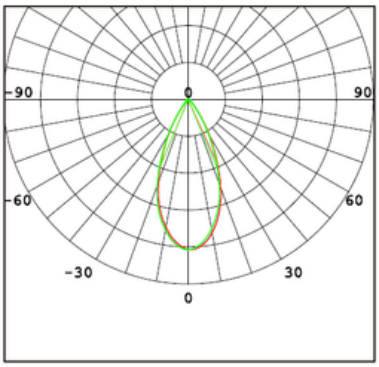
400W Beam Angle



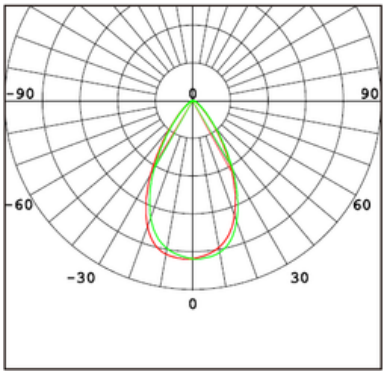
22° F24023
400W Beam Angle



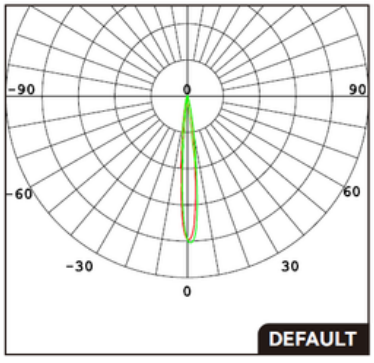
30° F24003
400W Beam Angle



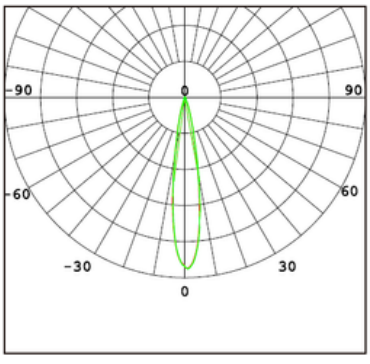
45° F24004
400W Beam Angle



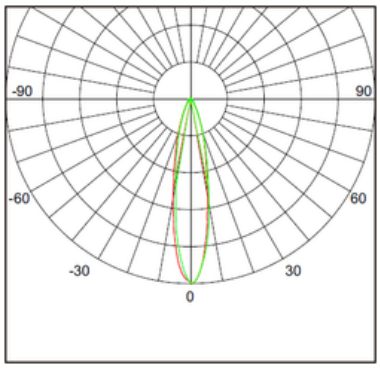
60° F24006
400W Beam Angle



12° F34801
600W Beam Angle



17° F34802
600W Beam Angle



22° F34823
600W Beam Angle

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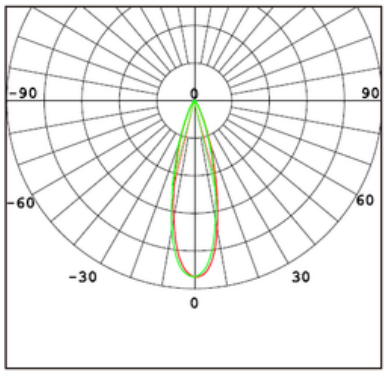
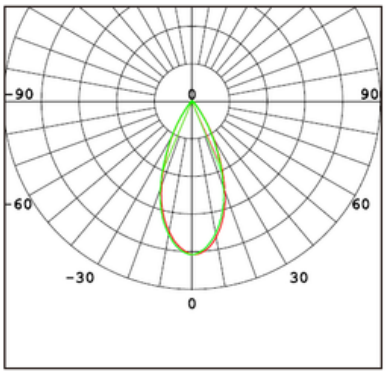
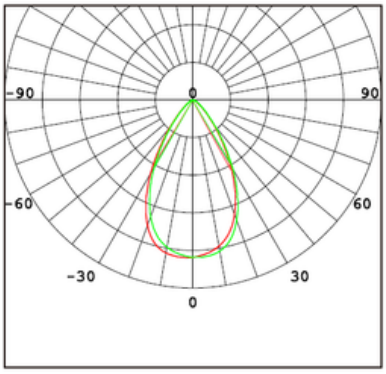


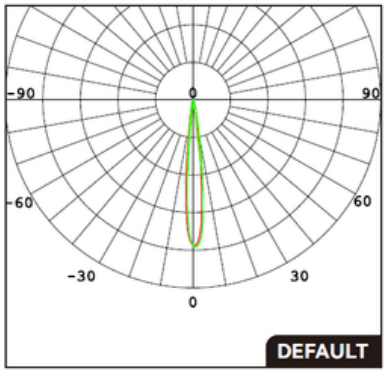
30° F34803
600W Beam Angle



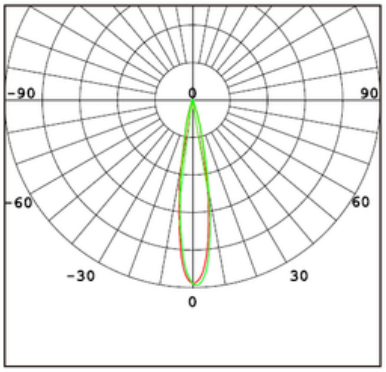
45° F34804
600W Beam Angle



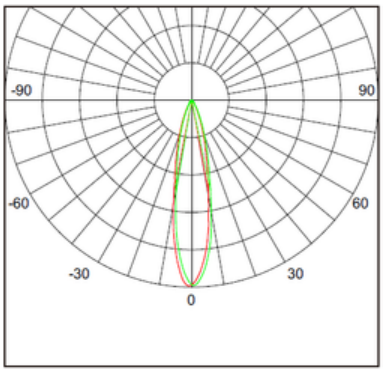
60° F34806
600W Beam Angle



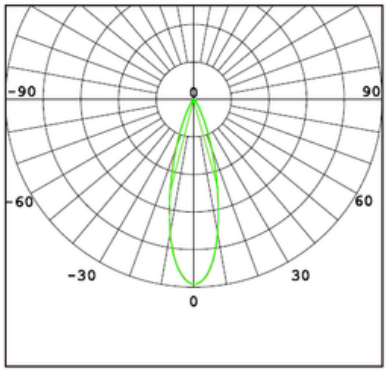
12° F43201
800W Beam Angle



17° F43202
800W Beam Angle



22° F43223
800W Beam Angle



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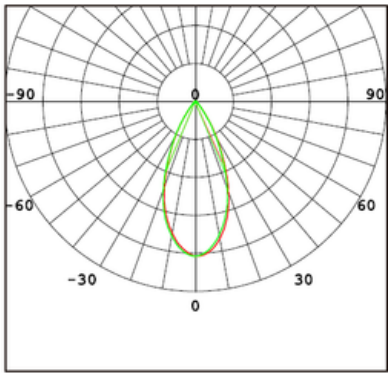
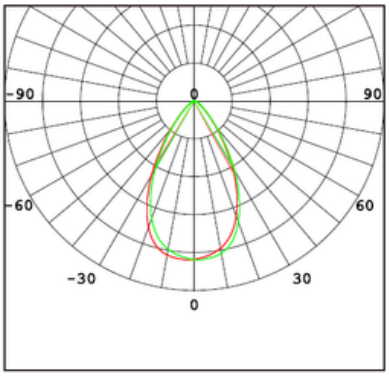
800W Beam Angle

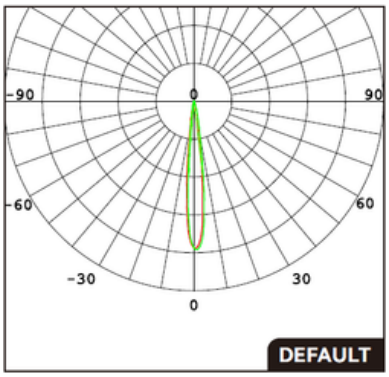


45° F43204
800W Beam Angle

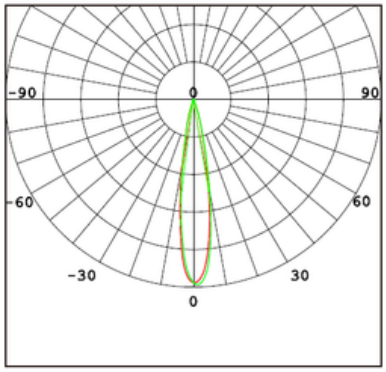


60° F43206
800W Beam Angle

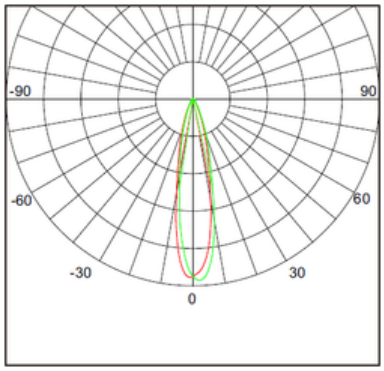
PHOTOMETRIC DATA



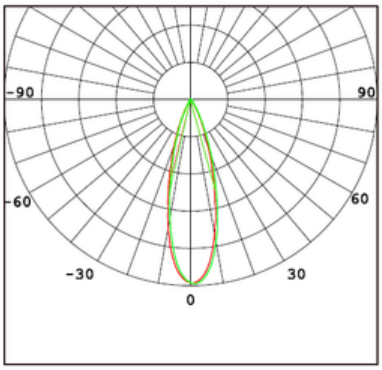
12° F64801
1200W Beam Angle



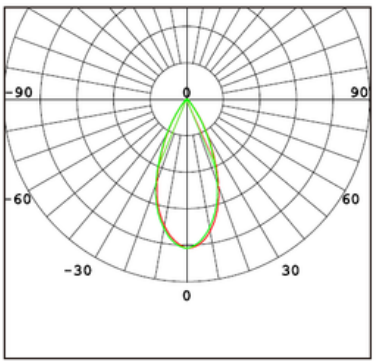
17° F64802
1200W Beam Angle



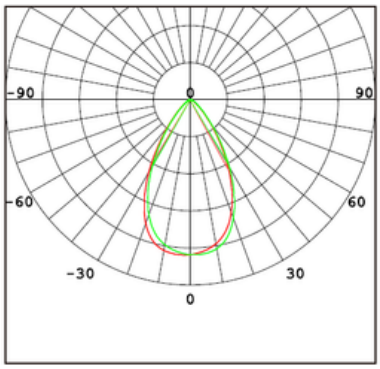
22° F64823
1200W Beam Angle



30° F64803
1200W Beam Angle



45° F64804
1200W Beam Angle



60° F64806
1200W Beam Angle

MOUNTING OPTIONS

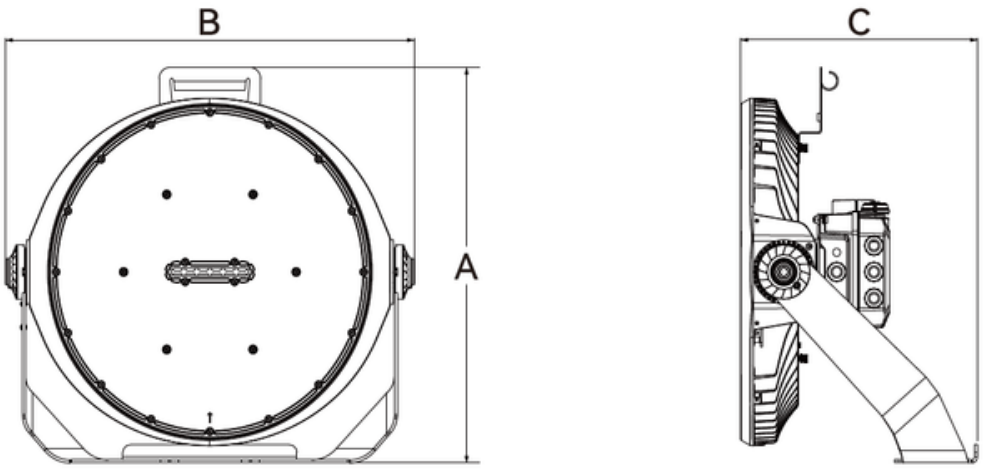
U-Bracket

Slipfitter Mount

Quick Clamp Adapter

DIMENSIONAL DATA

Unit:mm



VOLTAGE	WATTAGE	LUMINAIRE DIMENSIONS (A X B X C)	PRODUCT WEIGHT (KG/LBS)
120Vac~277Vac	400W	400x429x246mm (15.75x16.89x9.68")	11.59kg/25.55lbs
	600W	426x490x291mm (16.77x19.29x11.46")	15.09kg/33.27lbs
	800W	526x564x326mm (20.71x22.20x12.83")	20.88kg/46.03lbs
	1200W	581x648x332mm (22.87x25.51x13.07")	28.88kg/63.67lbs
200Vac~480Vac	400W	400x429x246mm (15.75x16.89x9.68")	12.52kg/27.60lbs
	600W	426x490x291mm (16.77x19.29x11.46")	15.09kg/33.27lbs
	800W	526x564x326mm (20.71x22.20x12.83")	21.07kg/46.45lbs
	1200W	581x648x332mm (22.87x25.51x13.07")	28.88kg/63.67lbs
200Vac-480Vac, 50/60Hz	800W	526x564x326mm (20.71x22.20x12.83")	21.95kg/48.39lbs
277Vac-480Vac, 50/60Hz	1200W	581x648x332mm (22.87x25.51x13.07")	29.05kg/64.04lbs

*Images not to scale.

ACCESSORIES

Precision Aiming Device

- A specialized tool designed for precise alignment and aiming of the stadium light fixture.
- Dimensions: 210x105x130mm (8.27x4.13x5.12")

Slipfitter

- An adapter offering versatile mounting options, including slipfitter and quick clamp for various pole installations.
- Dimensions: 640x405x155mm (25.20x15.95x6.10")

Quick Clamp Adapter

- A robust adapter for secure installation of the fixture.
- Dimensions: 460x340x315mm (18.11x13.39x12.40")

Visor

- An accessory designed to control light spill and minimize glare, enhancing visual comfort and reducing light pollution.
- Available for all beam angles and wattages

*Images not to scale.

ORDERING INFORMATION

ORDERING EXAMPLE: BSL-TIB-400-MV-40K-12-1-10-SF-GR

SERIES	WATTAGE & LUMEN OUTPUT	VOLTAGE	CORELATED COLOR TEMPERATURE (CCT)	BEAM ANGLE	CONTROL OPTIONS	MOUNTING OPTIONS	FINISH COLOR
TIB	400W (66900~ 69100lm)	MV (100-277V)	40K (4000K)	12°	0-10V	SF (Slipfitter Mount)	GR (Grey)
	600W (97800~ 103600lm)	HV (277-480V)	50K (5000K)	17°		UB (U-Bracket)	
	800W (132800~ 135800lm)			22°			
	1200W (198200~ 205100lm)			30°			
				45°			
				60°			

OPTIONAL ACCESSORIES AVAILABLE*

- Advanced Control Options: Includes intelligent control modules for comprehensive energy management, advanced dimming, and scheduling.
- Conduit Adapters: For seamless integration with various electrical conduit systems.
- Mounting Hardware: Includes anchor bolts, nuts, washers, and J-hooks for secure installation.
- Surge Protection Devices (SPDs): Protects the fixture from power surges and lightning strikes.

*Accessories sold separately.

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.

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.