

LHB09-T-Series



KEY ADVANTAGES

- Professional-Grade Court Lighting Enhancing Field Safety.
- Special Beam Angle: 110°*60°
- Average Luminous flux exceeding 300 lux (uniformity over 0.8).
- Modular Design with High Compatibility and Multiple Power Configurations.
- Adjustable hood for customized shading angles.
- Exceptional Heat Dissipation Performance.
- High Luminous Efficacy up to 170lm/W
- Revolutionary linear design, different from traditional flood lights.
- 6KV Lightning Protection for Extreme Weather Resilience.

TYPES OF APPLICATION

- TENNIS
- PADEL
- PICKLEBALL
- SOCCER/FUTSAL
- BASKETBALL
- VOLLEYBALL
- BADMINTON
- SQUASH AND RACQUETBALL COURTS
- OUTDOOR RECREATIONAL AREAS (COMMUNITY CENTERS OR PARKS)



TENNIS



BASKETBALL



PICKLEBALL



OUTDOOR RECREATIONAL AREAS



LHB09-T-SERIES | CHARACTERISTICS

GENERAL INFORMATION

Driver included	Yes
CE mark	Yes
RoHS compliant	Yes
Safety features	Open circuit protection Short circuit protection Overvoltage protection
Testing standard	LM-79-19 (all measurements in ISO17025 accredited laboratory)

HOUSING AND FINISH

Housing	Aluminium
Optic	Polycarbonate
Protector	Polycarbonate (with integrated lenses)
Housing finish	Electrostatic polyester powder coating
Standard colour(s)	RAL 9017 black
Tightness level	IP 65
Impact resistance	IK 09

OPERATING CONDITIONS

Operating temperature range (Ta)	-20°C to + 45°C
Operating Humidity	10-90%RH
Mounting Option	Pole mounting/Bracket installation
Warranty	5 years

Performance

Power	120W/240W/480W
Efficacy	170lm/W
Power Efficiency	≥90%
Start Time	≤0.2S
Warm-up time to 60%	0.5S

ELECTRICAL INFORMATION

Electrical class	Class I EU
Nominal voltage	120-277V 50/60Hz
Power factor (at full load)	0.9
Surge protection options (kV)	6KV-Line-Line 6KV-Line-Earth
Electromagnetic compatibility (EMC)	EN 55015:2019/A11:2020, EN 61000 3-2:2019, EN 61000-3-3:2013, EN 61547:2009, EN 62493:2015
Total Harmonic Distortion(THD)	IEC 61000-3-2 Class C <20%
Driver Type	Constant current(CC)
For fixed Class 1 luminaires, overvoltage protective devices which comply with IEC 61643-11 shall be disconnected from the circuit.	
withstand voltage	1.5KV 60S 10mA

※Lamp switch must control L line or control L and N lines.

OPTICAL INFORMATION

LED Type	SMD3030/SMD5050
Beam Angle	60x110°/90x110°
Recommended installation height	6m
Color Tolerance	Ra70 ≤7 Ra80 ≤5
LED colour temperature	3000K / 4000K / 5000K / 5700K / 6500K
Colour rendering index (CRI)	CRI>70 standard CRI>80 optional
Upward Light Output Ratio (ULOR)	0%

※Ra measurement tolerance is ±2.

LIFETIME OF THE LEDS @ TA 25°C

All configurations	
L70B50	>100,000h
L80B20	>50,000h
L90B10	>30,000h
Switching Cycles	>100,000 times

LHB09-T-SERIES | PERFORMANCE

PRO VERSION

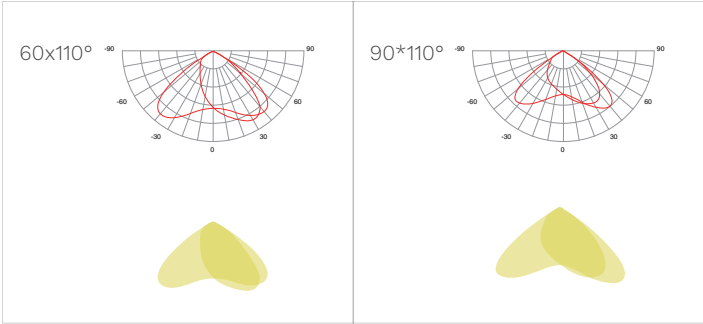
POWER	LUMENS	EFFICACY
120W	20,400LM	170LM/W(Ra70)
	19,200LM	160LM/W(Ra80)
240W	40,800LM	170LM/W(Ra70)
	38,400LM	160LM/W(Ra80)
480W	81,600LM	170LM/W(Ra70)
	76,800LM	160LM/W(Ra80)

※The Performance Data is tested base on 230VAC, 60x110° and 4000K for all versions
※Power Consumption Tolerance ±5% (Apply to all versions)
※Lumen Efficiency Tolerance ±5% (Apply to all versions)

PACKAGING

POWER	PACKAGE SIZE	QTY/CTN	SINGLE PIECE VOLUME	NET WEIGHT	GROSS WEIGHT	20GP	40HQ
120W	L400*W240*H155mm	1PCS/CTN	0.0149m3	3.7kg	4.5kg	1747pcs	4436pcs
240W	L755*W240*H155mm	1PCS/CTN	0.0281m3	5.4kg	6.1kg	926pcs	2350pcs
480W	L755*W365*H155mm	1PCS/CTN	0.0427m3	9.5kg	10.5kg	609pcs	1545pcs

LIGHT DISTRIBUTIONS



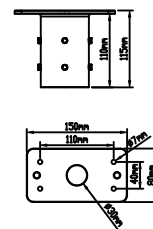
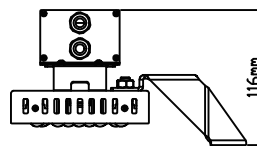
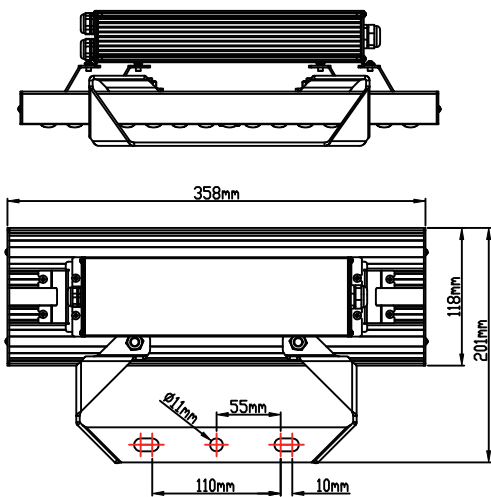
ACCESSORIES



LHB09-T-SERIES Pole installation

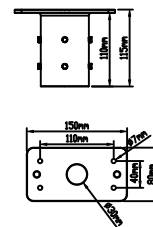
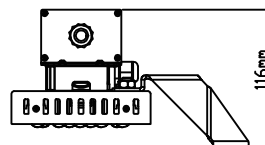
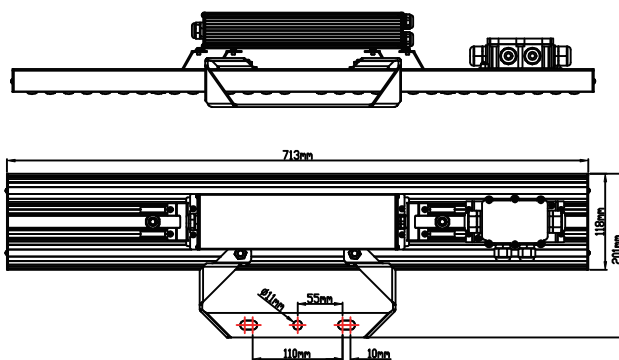
 Connecting the cable requires an IP65 Tightness level

120W



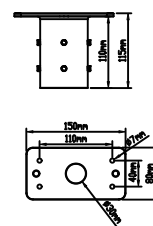
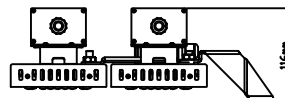
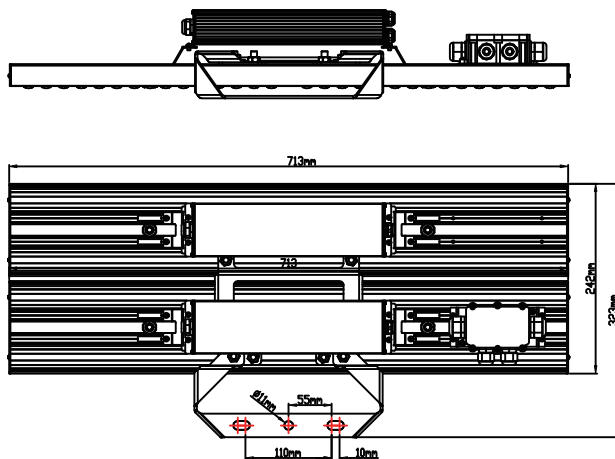
Pole mounting

240W



Pole mounting

480W



Pole mounting