



LEDture
powerful lights

PROFESSIONAL HIGH-MAST LED LIGHTING

Model A Flood Light

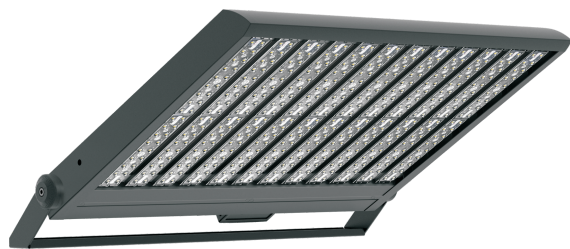
Powerful & reliable high-power LED lighting for sports venues, airports, ports and other large areas. Superior spill light control with up to 180LPW efficiency.

Product Introduction

The Model A Flood Light has been specifically designed to provide the most powerful & reliable high-power lighting for high-mast applications such as sports venues, airports, ports and other large areas. The design makes it possible to re-use the existing infra-structure as in masts, cabling and power supply, so no additional investment is needed.

With superior spill light control design, high light output and low weight, these fixtures are designed to provide a superior quality anti-glare light, that can be used for both airports and recreational & professional sports venues.

The modern, yet rugged fixture housing is constructed of high grade aluminum with exceptional heat sink design, insure that these flood light fixtures will last for more than 20 years or 100,000 hours of operation, making them virtually maintenance free for a lifetime.



U Type Mounting



J Type Mounting



External Power Pack

External Power Pack is optional

Key Features

- Superior spill light control design
- High light output and low weight
- Superior quality anti-glare light
- Suitable for airports and sports venues
- High grade aluminum housing
- Exceptional heat sink design
- 20+ years or 100,000 hours lifetime
- Virtually maintenance free

Applications

Sports Venues

Football, Baseball, Tennis

Airport

Arpon, Parking Area, Cargo Area

Ports

Cargo Handling, Dock Area



TLCI 90+ Broadcast Color

With broadcast color options, featuring TLCI 90+ can deliver the most natural daylight-like experience to indoor and nighttime events, whether viewed by spectators in the stands or the TV audience watching at home.

TLCI-2012 Qa Score Reference:

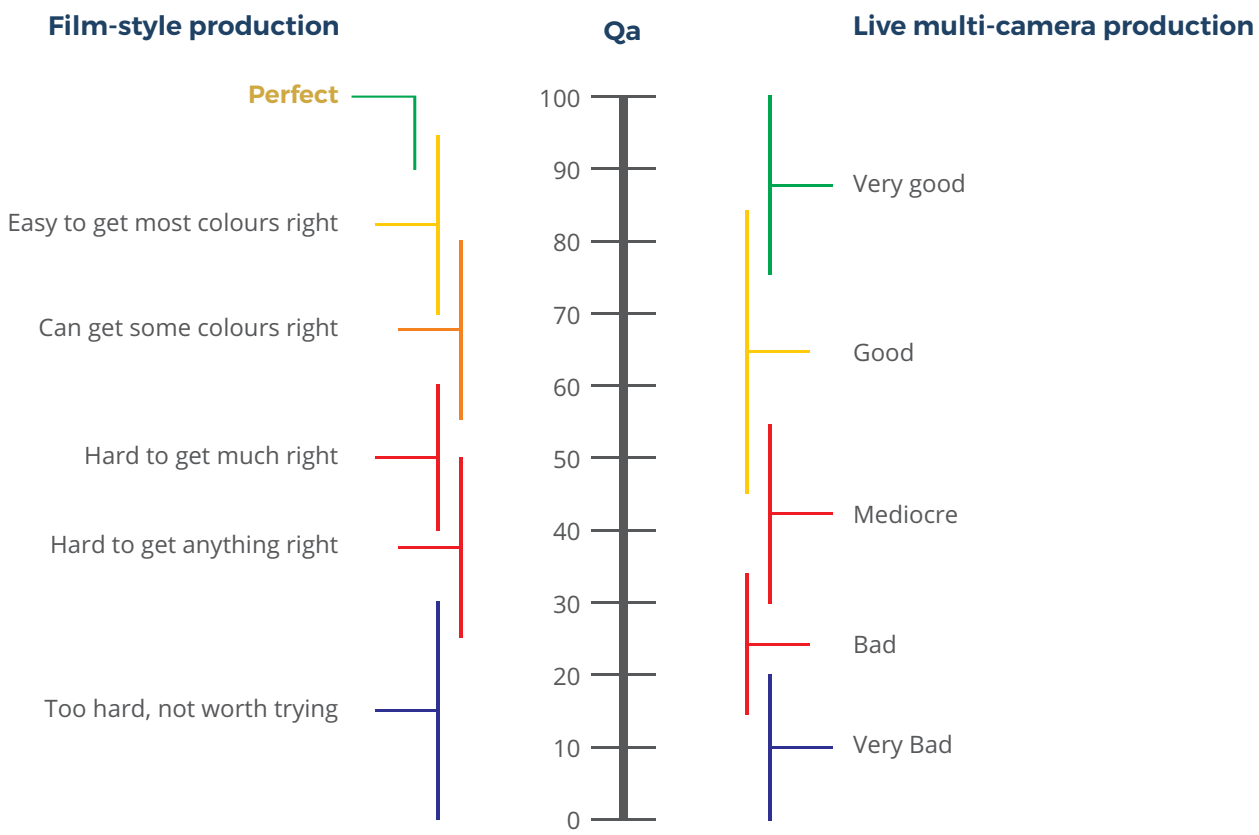
90+ = Perfect (Very good - Easy to get most colours right)

80+ = Good (Can get some colours right)

70+ = Mediocre (Hard to get much right)

Qa≥90 is Perfect for film-style production

Qa≥80 is Very good for live multi-camera production



LEDTURE's DarkSky Solution

LEDTURE works to support environmentally responsible lighting by designing lighting solutions that align with the DarkSky guideline, while maintaining safety and visibility.



Reduce Uplights & Glare

Our products feature professional optics that eliminate uplights and significantly reduce glare, preserving night sky visibility.

Compliant CCT

We provide a variety of CCT options, at or below 3000K which is required for DarkSky certification, minimizing blue light and reducing skyglow.

Targeted Light Distribution

Our high precision optics direct lights to the area where it is needed for maximum efficiency and minimum waste. Multiple shielding options allow light to be contained exactly where it's needed, avoiding light trespass.

Turtle-Friendly Amber Solution

LEDTURE's turtle-friendly amber solution uses a long-wavelength light source with wavelength readings at around 590nm (True Amber) to help hatchlings navigate from the nest to the shore, complying with Florida Fish and Wildlife Commission (FWC) guidelines.



Performance Summary

Parameter	Specification
Input Voltage	100-277VAC or 277-480VAC, 50/60Hz
Nominal Power	80W ~ 2400W
Efficiency	Up to 180 LPW
CRI	Ra>70 (Default) / Ra>80 / Ra>90
Power Factor	>0.95 at full load
Total Harmonic Distortion	<10% at full load
Surge Protection Device	I _{max} 20KA
Optic (IESNA)	Type II, Type III, Type IV, Type V
Operating Temperature	-40°C~+50°C (High ambient up to 80°C customizable)
Color Options	Black, Gray
L70B10 / L90B10	>200,000H / >60,000H
Warranty	10 Years

2400W
Max Power

180
LPW Max

200,000
Hours L70

10
Year Warranty

Certification

CE

ROHS

CB

ENEC

UL/cUL

DarkSky

DLC Premium

SAA

QCC

IP66

IK10

* Not all products are qualified on the DLC QPL. To view our DLC qualified models, please refer to the DLC Qualified Products List at www.designlights.org.

* Not all products are DarkSky approved. To view our DarkSky approved models, please refer to the DarkSky Approved Luminaires at www.darksky.org.

Ordering Information

Example: AAC80L-U-T2S-30K-BK-DIM0

MODEL	INPUT VOLTAGE	MOUNTING	OPTIC	CCT	COLOR	OPTIONS
AAC80	L 100-277VAC	U	T2S	30K 3000K	BK Black-RAL9011	DIM0 0-10V Dimming
AAC120	H 277-480VAC	J	T2M	40K 4000K	GY Gray-RAL7004	DIM1 1-10V Dimming
AAC160			T2L	50K 5000K		WDS Wireless Dimming System
AAC200			T3S	57K 5700K		DALI DALI Control
AAC240			T3M			DMX DMX Control
AAC320			T4VISA	RED Red		MMS Motion Sensor
AAD120			T4VVS	GRE Green		NEMA3 Nema 3PIN
AAD180			T4VS	BLU Blue		NEMA7 Nema 7PIN
AAD240			T4VSB	AMB Amber		ZHAGA Zhaga Socket
AAD300			T4S			PCM Photocell MINI
AAD360			T4SB			BLS Back Light Shield
AAD480			T4M			SPC Spill Control
ABD720			T4MB			BSP Bird Spike
ABD960			T5M			S5K Salt Spray Test 5000h
ABD1200			T5W			ORL Optics Rotated Left
AAE640			T10D			ORR Optics Rotated Right
ABE960			T20D			
ABE1440			T40D			
ABE1920			T60D			
ABE2400			T90D			
MAE640						
MBE960						
MBE1440						
MBE1920						
MBE2400						

* Except for the DIM, all configuration options require prior confirmation with the engineer.

Specification Features

Construction

Extruded aluminum driver enclosure thermally isolated from LED Modules for optimal thermal performance. Heavy-wall, die cast aluminum end caps enclose housing and extruded aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. IP66 water-proof and dust-proof rated.

Optics

Patented, high-efficiency spill light control technology. With a wide-range of optic lenses and flux options for the luminaire, it can send light exactly in the right direction and illuminate only the area of interest as efficient as possible. This will let you avoid any light waste and shine light only where is needed. Multiple spill light control options diminish the light that shines towards the sky and windows.

Electrical

LED drivers can be mounted to removable tray assembly, which is separated drivers pack, for ease of maintenance. 100-277VAC 50/60Hz, 277-480VAC 50/60Hz Operation. The Model A is suitable for operation in -40°C to 50°C ambient environment and high ambient temperature up to 80°C is customizable. Available in standard 700mA, 1050mA and 1400mA drive current.

Mounting

U-type and J-type bracket mounting allow for mounting angle flexibility.

Finish

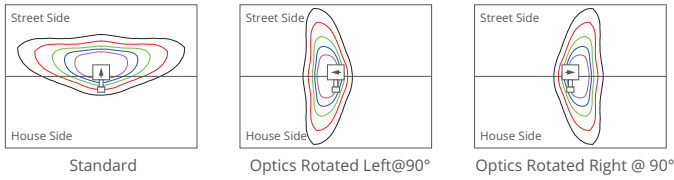
Housing finished in super durable powder coat paint, corrosion resistant polyester powder painted 100µm thickness. Meets 5,000H salt spray certification per ASTM Standard B117.

Certification

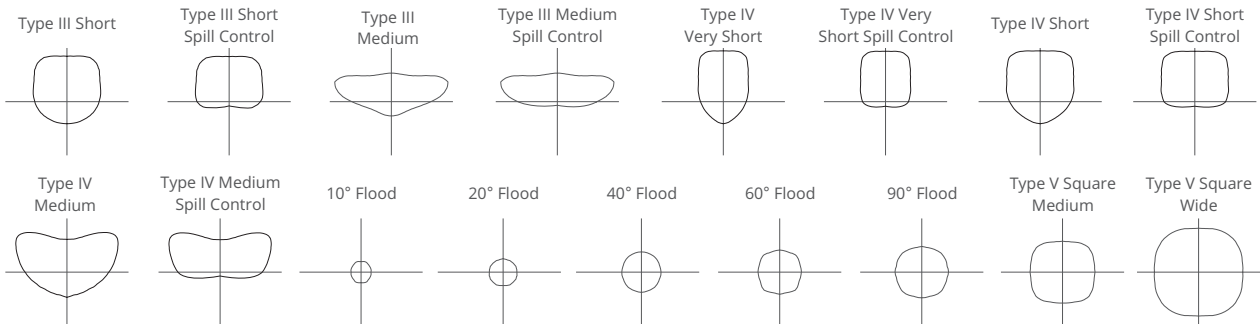
- cULus Listed
- CE-LVD/CE-EMC/CB/ENEC
- SAA
- DLC Premium qualified versions available
- DarkSky Approved versions available
- IP66 /IK10
- RoHS compliant
- Endurance tested to withstand 5,000H of elevated ambient salt fog conditions as defined in ASTM Standard B117
- 20KA surge suppression protection tested in accordance with IEEE C62.41.2
- Certified to ANSI C136.31, 3G bridge and overpass vibration standards

Optical Distributions

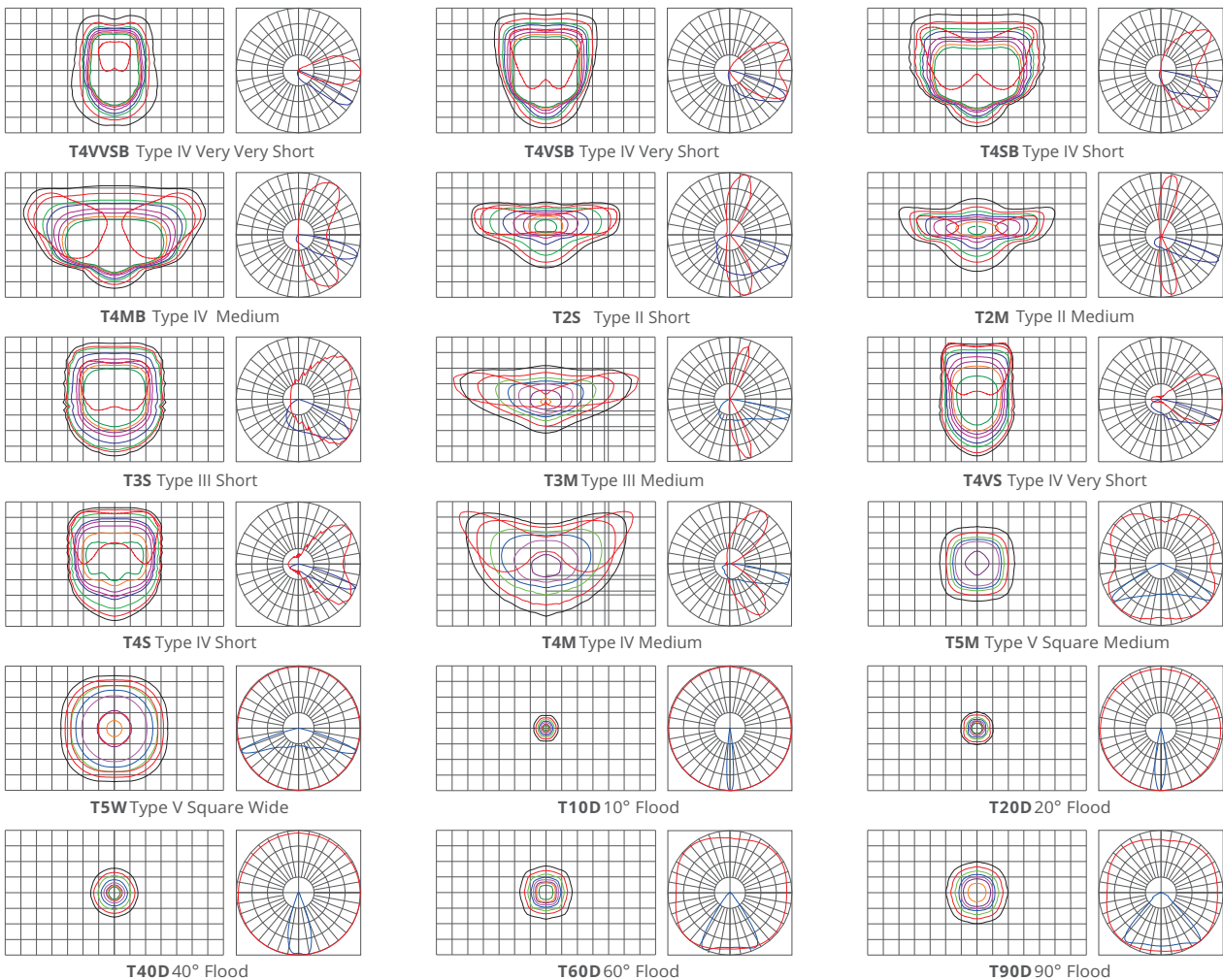
Optic Orientation



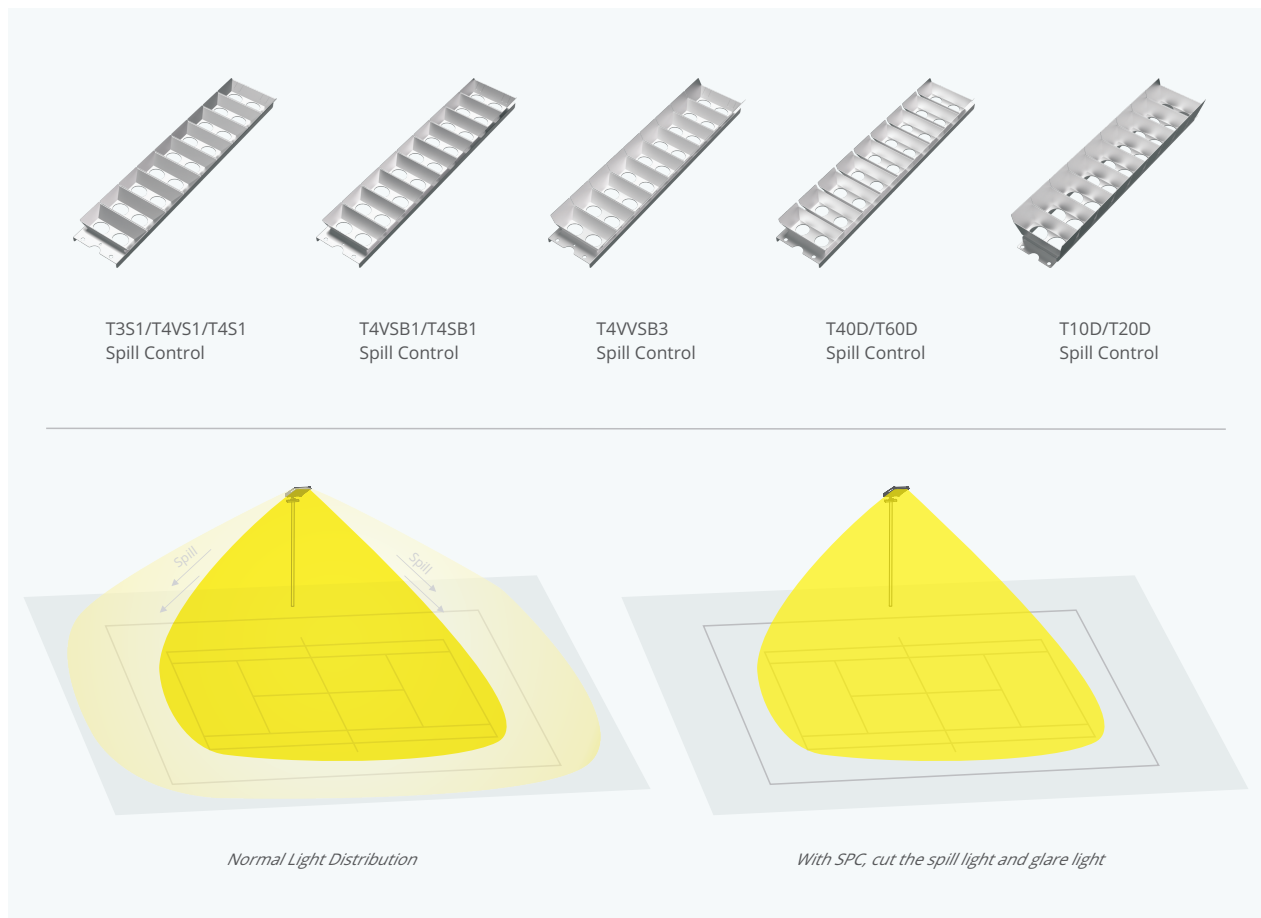
Optical Distributions



Photometry



Spill Control Options



Applications

T3S1/T4VS1/T4S1

Spill Control - Standard light distribution with spill control for Type III and Type IV optics

T4VSB1/T4SB1

Spill Control - Enhanced spill control for Very Short and Short Type IV distributions

T4VVB3

Spill Control - Maximum spill control for Very Very Short Type IV distribution

T40D/T60D

Spill Control - For wide flood distributions (40° and 60°)

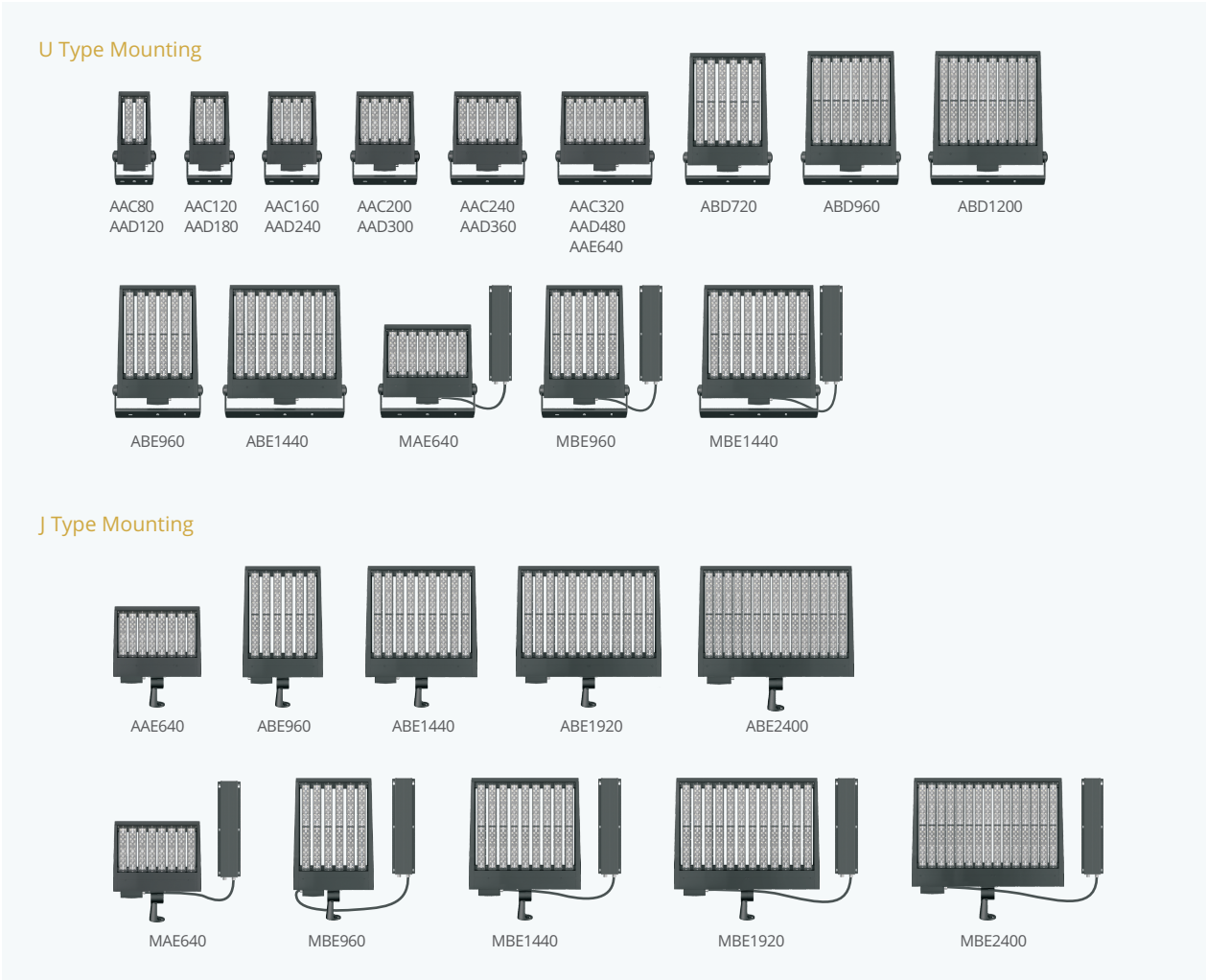
T10D/T20D

Spill Control - For narrow flood distributions (10° and 20°)

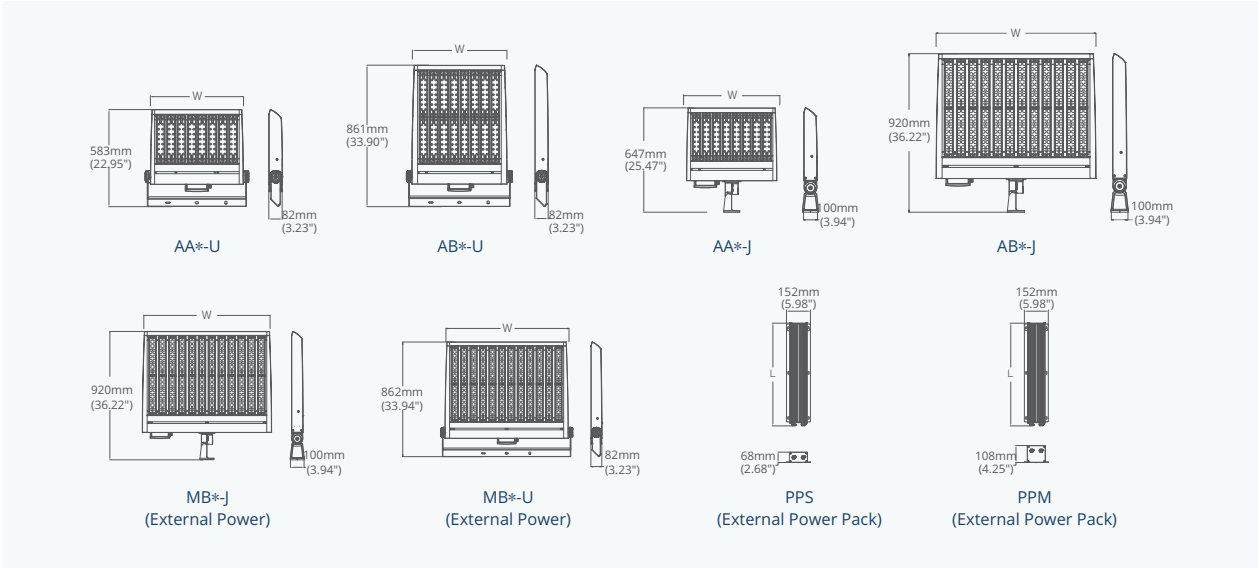
With SPC (Spill Control): Cuts the spill light and glare light, directing illumination only where needed. This protects night preservation, reduces biodiversity impact, and minimizes light nuisance issues for surrounding areas.

Product Range & Dimensions

Product Image



Dimension



Brief Specifications - 100-277VAC

Model	Power	Current	Modules	Module Power	Product size L*W*H (mm/in)	Packing size L*W*H (mm/in)	Net weight	Gross weight	Flux (lm)	Eff. (lm/W)
AAC80L	80W	700mA	2	40W	583(22.95)*213(8.39)*82(3.23)	685(26.97)*315(12.40)*160(6.30)	6.0KG	6.8KG	14080	176
AAC120L	120W	700mA	3	40W	583(22.95)*248(9.76)*82(3.23)	685(26.97)*350(13.78)*160(6.30)	6.9KG	7.7KG	21120	176
AAC160L	160W	700mA	4	40W	583(22.95)*311(12.24)*82(3.23)	685(26.97)*410(16.14)*160(6.30)	7.9KG	9.0KG	28480	178
AAC200L	200W	700mA	5	40W	583(22.95)*373(14.69)*82(3.23)	685(26.97)*475(18.70)*160(6.30)	8.9KG	10.1KG	35600	178
AAC240L	240W	700mA	6	40W	583(22.95)*436(17.17)*82(3.23)	685(26.97)*545(21.46)*160(6.30)	10.2KG	11.7KG	42720	178
AAC320L	320W	700mA	8	40W	584(22.99)*561(22.09)*82(3.23)	685(26.97)*660(25.98)*160(6.30)	12.7KG	14.5KG	56960	178
AAD120L	120W	1050mA	2	60W	583(22.95)*213(8.39)*82(3.23)	685(26.97)*315(12.40)*160(6.30)	6.1KG	6.9KG	19680	164
AAD180L	180W	1050mA	3	60W	583(22.95)*248(9.76)*82(3.23)	685(26.97)*350(13.78)*160(6.30)	7.1KG	8.0KG	29700	165
AAD240L	240W	1050mA	4	60W	583(22.95)*311(12.24)*82(3.23)	685(26.97)*410(16.14)*160(6.30)	8.1KG	9.2KG	39840	166
AAD300L	300W	1050mA	5	60W	583(22.95)*373(14.69)*82(3.23)	685(26.97)*475(18.70)*160(6.30)	9.6KG	10.8KG	49800	166
AAD360L	360W	1050mA	6	60W	583(22.95)*436(17.17)*82(3.23)	685(26.97)*545(21.46)*160(6.30)	10.9KG	12.4KG	59760	166
AAD480L	480W	1050mA	8	60W	584(22.99)*561(22.09)*82(3.23)	685(26.97)*660(25.98)*160(6.30)	13.0KG	14.8KG	79680	166
ABD720L	720W	1050mA	6	120W	861(33.90)*522(20.55)*82(3.23)	960(37.80)*615(24.21)*160(6.30)	17.4KG	19.5KG	119520	166
ABD960L	960W	1050mA	8	120W	861(33.90)*581(22.87)*82(3.23)	960(37.80)*675(26.57)*160(6.30)	19.9KG	22.2KG	159360	166
ABD1200L	1200W	1050mA	10	120W	862(33.94)*706(27.64)*82(3.23)	960(37.80)*810(31.89)*160(6.30)	23.5KG	26.6KG	199200	166
AAE640L	640W	1400mA	8	80W	584(22.99)*561(22.09)*82(3.23)	685(26.97)*660(25.98)*160(6.30)	14.9KG	16.7KG	96000	150
ABE960L	960W	1400mA	6	160W	862(33.94)*522(20.55)*82(3.23)	960(37.80)*615(24.21)*160(6.30)	18.2KG	20.3KG	144000	150
ABE1440L	1440W	1400mA	9	160W	862(33.94)*715(28.15)*82(3.23)	960(37.80)*810(31.89)*160(6.30)	23.9KG	26.6KG	216000	150
MAE640L	640W	1400mA	8	80W	584(22.99)*561(22.09)*82(3.23)	685(26.97)*660(25.98)*160(6.30)	11.4KG	13.2KG	96000	150
MBE960L	960W	1400mA	6	160W	862(33.94)*522(20.55)*82(3.23)	960(37.80)*615(24.21)*160(6.30)	12.3KG	14.4KG	144000	150
MBE1440L	1440W	1400mA	9	160W	862(33.94)*715(28.15)*82(3.23)	960(37.80)*810(31.89)*160(6.30)	19.5KG	22.2KG	216000	150

*The above produce size is shown as U type arm mount only.

*The above lumen output is shown as optics T5M.

Brief Specifications - 277-480VAC

Model	Power	Current	Modules	Module Power	Product size L*W*H (mm/in)	Packing size L*W*H (mm/in)	Net weight	Gross weight	Flux (lm)	Eff. (lm/W)
AAC80H	80W	700mA	2	40W	583(22.95)*213(8.39)*82(3.23)	685(26.97)*315(12.40)*160(6.30)	6.0KG	6.8KG	14080	176
AAC120H	120W	700mA	3	40W	583(22.95)*248(9.76)*82(3.23)	685(26.97)*350(13.78)*160(6.30)	6.9KG	7.7KG	21120	176
AAC160H	160W	700mA	4	40W	583(22.95)*311(12.24)*82(3.23)	685(26.97)*410(16.14)*160(6.30)	7.9KG	9.0KG	28480	178
AAC200H	200W	700mA	5	40W	583(22.95)*373(14.69)*82(3.23)	685(26.97)*475(18.70)*160(6.30)	8.9KG	10.1KG	35600	178
AAC240H	240W	700mA	6	40W	583(22.95)*436(17.17)*82(3.23)	685(26.97)*545(21.46)*160(6.30)	10.2KG	11.7KG	42720	178
AAC320H	320W	700mA	8	40W	584(22.99)*561(22.09)*82(3.23)	685(26.97)*660(25.98)*160(6.30)	12.7KG	14.5KG	56960	178
AAD120H	120W	1050mA	2	60W	583(22.95)*213(8.39)*82(3.23)	685(26.97)*315(12.40)*160(6.30)	6.1KG	6.9KG	19680	164
AAD180H	180W	1050mA	3	60W	583(22.95)*248(9.76)*82(3.23)	685(26.97)*350(13.78)*160(6.30)	7.1KG	8.0KG	29700	165
AAD240H	240W	1050mA	4	60W	583(22.95)*311(12.24)*82(3.23)	685(26.97)*410(16.14)*160(6.30)	8.1KG	9.2KG	39840	166
AAD300H	300W	1050mA	5	60W	583(22.95)*373(14.69)*82(3.23)	685(26.97)*475(18.70)*160(6.30)	9.6KG	10.8KG	49800	166
AAD360H	360W	1050mA	6	60W	583(22.95)*436(17.17)*82(3.23)	685(26.97)*545(21.46)*160(6.30)	10.9KG	12.4KG	59760	166
AAD480H	480W	1050mA	8	60W	584(22.99)*561(22.09)*82(3.23)	685(26.97)*660(25.98)*160(6.30)	13.0KG	14.8KG	79680	166
ABD720H	720W	1050mA	6	120W	861(33.90)*522(20.55)*82(3.23)	960(37.80)*615(24.21)*160(6.30)	17.4KG	19.5KG	119520	166
ABD960H	960W	1050mA	8	120W	861(33.90)*581(22.87)*82(3.23)	960(37.80)*675(26.57)*160(6.30)	19.9KG	22.2KG	159360	166
ABD1200H	1200W	1050mA	10	120W	862(33.94)*706(27.64)*82(3.23)	960(37.80)*810(31.89)*160(6.30)	23.5KG	26.6KG	199200	166
AAE640H	640W	1400mA	8	80W	584(22.99)*561(22.09)*82(3.23)	685(26.97)*660(25.98)*160(6.30)	14.9KG	16.7KG	96000	150
ABE960H	960W	1400mA	6	160W	862(33.94)*522(20.55)*82(3.23)	960(37.80)*615(24.21)*160(6.30)	18.2KG	20.3KG	144000	150
ABE1440H	1440W	1400mA	9	160W	862(33.94)*715(28.15)*82(3.23)	960(37.80)*810(31.89)*160(6.30)	23.9KG	26.6KG	216000	150
MAE640H	640W	1400mA	8	80W	584(22.99)*561(22.09)*82(3.23)	685(26.97)*660(25.98)*160(6.30)	11.4KG	13.2KG	96000	150
MBE960H	960W	1400mA	6	160W	862(33.94)*522(20.55)*82(3.23)	960(37.80)*615(24.21)*160(6.30)	12.3KG	14.4KG	144000	150
MBE1440H	1440W	1400mA	9	160W	862(33.94)*715(28.15)*82(3.23)	960(37.80)*810(31.89)*160(6.30)	19.5KG	22.2KG	216000	150

External Power Pack

Model	Product size L*W*H (mm/in)	Packing size L*W*H (mm/in)	Net weight	Gross weight
PPS-640W	613(24.13)*152(5.98)*68(2.68)	660(25.98)*205(8.07)*130(5.12)	4.9KG	5.3KG
PPS-960W	613(24.13)*152(5.98)*68(2.68)	660(25.98)*205(8.07)*130(5.12)	4.9KG	5.3KG
PPS-1440W	613(24.13)*152(5.98)*68(2.68)	660(25.98)*205(8.07)*130(5.12)	5.8KG	6.2KG

*The above produce size is shown as U type arm mount only.

*The above lumen output is shown as optics T5M.

Brief Specifications - 100-277VAC

Model	Power	Current	Modules	Module Power	Product size L*W*H (mm/in)	Packing size L*W*H (mm/in)	Net weight	Gross weight	Flux (lm)	Eff. (lm/W)
AAE640L	640W	1400mA	8	80W	647(25.47)*561(22.09)*100(3.94)	685(26.97)*660(25.98)*160(6.30)	13.2KG	15.0KG	96000	150
ABE960L	960W	1400mA	6	160W	920(36.22)*522(20.55)*100(3.94)	960(37.80)*615(24.21)*160(6.30)	16.7KG	18.8KG	144000	150
ABE1440L	1440W	1400mA	9	160W	920(36.22)*715(28.15)*100(3.94)	960(37.80)*810(31.89)*160(6.30)	21.7KG	24.4KG	216000	150
ABE1920L	1920W	1400mA	12	160W	920(36.22)*928(36.54)*100(3.94)	960(37.80)*1020(40.16)*160(6.30)	28.9KG	32.5KG	288000	150
ABE2400L	2400W	1400mA	15	160W	920(36.22)*1018(40.08)*100(3.94)	960(37.80)*1095(43.11)*160(6.30)	30.9KG	34.7KG	360000	150
MAE640L	640W	1400mA	8	80W	647(25.47)*561(22.09)*100(3.94)	685(26.97)*660(25.98)*160(6.30)	9.7KG	11.5KG	96000	150
MBE960L	960W	1400mA	6	160W	920(36.22)*522(20.55)*100(3.94)	960(37.80)*615(24.21)*160(6.30)	10.8KG	12.9KG	144000	150
MBE1440L	1440W	1400mA	9	160W	920(36.22)*715(28.15)*100(3.94)	960(37.80)*810(31.89)*160(6.30)	17.3KG	20.0KG	216000	150
MBE1920L	1920W	1400mA	12	160W	920(36.22)*928(36.54)*100(3.94)	960(37.80)*1020(40.16)*160(6.30)	21.7KG	25.0KG	288000	150
MBE2400L	2400W	1400mA	15	160W	920(36.22)*1018(40.08)*100(3.94)	960(37.80)*1095(43.11)*160(6.30)	25.0KG	28.8KG	360000	150

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MBE2400H	2400W	1400mA	15	160W	920(36.22)*1018(40.08)*100(3.94)	960(37.80)*1095(43.11)*160(6.30)	25.0KG	28.8KG	360000	150

External Power Pack

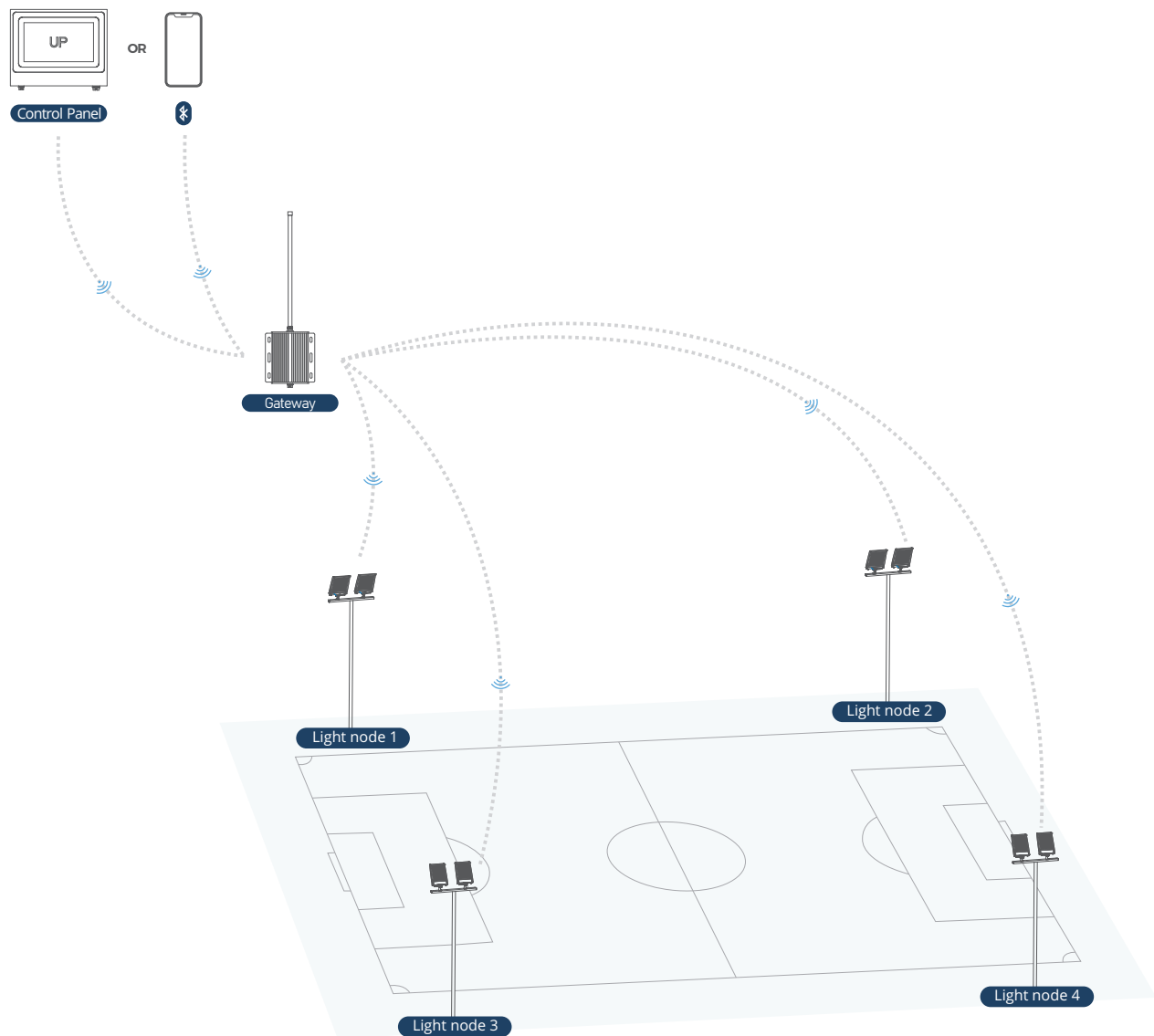
Model	Product size L*W*H (mm/in)	Packing size L*W*H (mm/in)	Net weight	Gross weight
PPS-640W	613(24.13)*152(5.98)*68(2.68)	660(25.98)*205(8.07)*130(5.12)	4.9KG	5.3KG
PPS-960W	613(24.13)*152(5.98)*68(2.68)	660(25.98)*205(8.07)*130(5.12)	4.9KG	5.3KG
PPS-1440W	613(24.13)*152(5.98)*68(2.68)	660(25.98)*205(8.07)*130(5.12)	5.8KG	6.2KG
PPS-1920W	1067(42.05)*152(5.98)*68(2.68)	1110(43.70)*205(8.07)*130(5.12)	11.0KG	11.5KG
PPS-2400W	1067(42.05)*152(5.98)*68(2.68)	1110(43.70)*205(8.07)*130(5.12)	12.0KG	13.0KG

* The above produce size is shown as J type arm mount only.

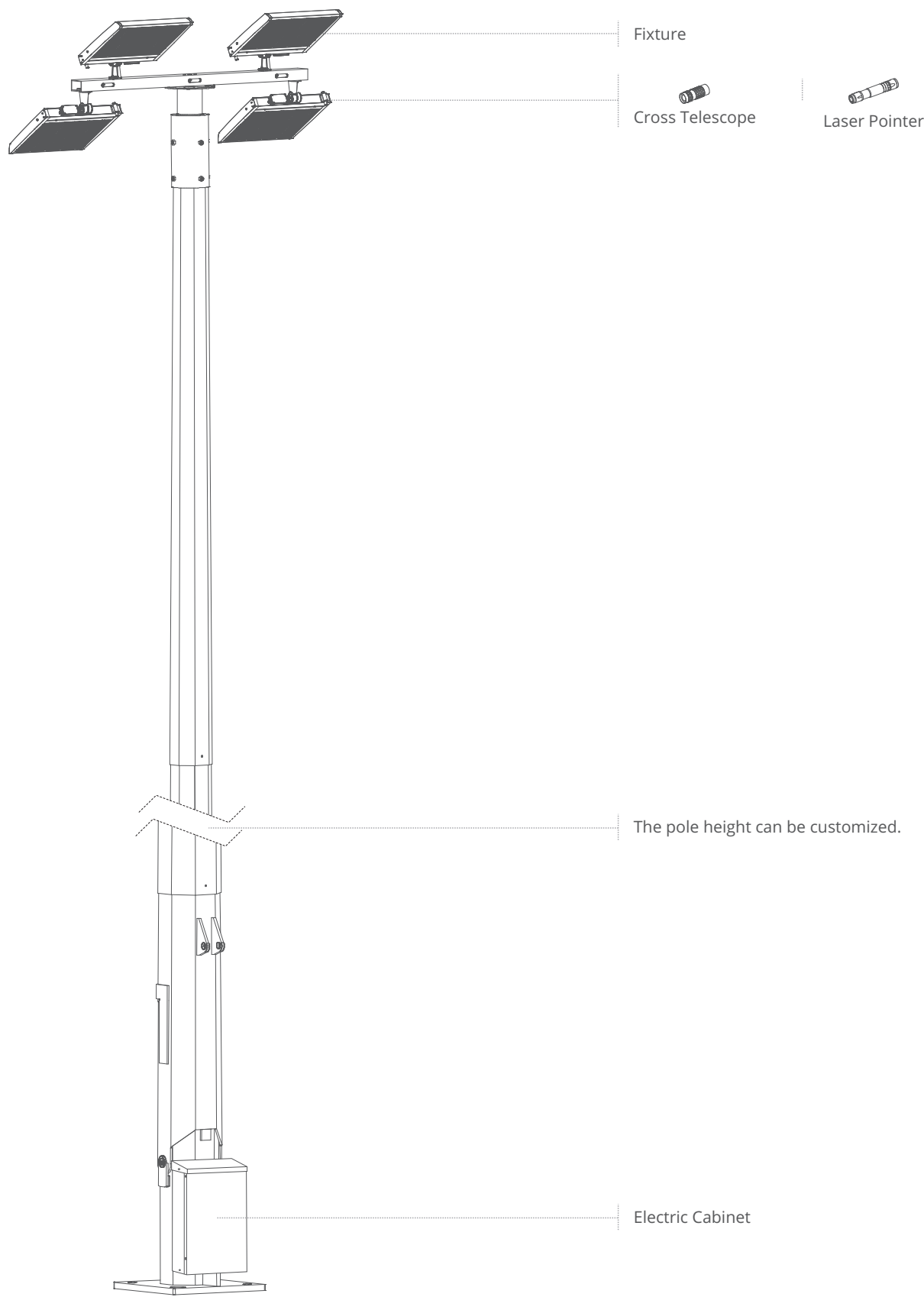
* The above lumen output is shown as optics T5M.

WDS Wireless Dimming System

Wireless Dimming System includes the site controller and the luminaire which is integrated with wireless control module, the site controller is equipped with a control panel to do the manual or intelligent dimming settings, over the local LAN via LoRa wireless communication, to control each luminaire's on/off and dimming.



Installation Diagram



Certification & Standards

Certification	Standards	Remark
CE-LVD	EN IEC 60598-2-3:2023, EN IEC 60598-2-5:2023 EN IEC 60598-1:2021, IEC TR 62471:2023, EN IEC 62493:2023	Low Voltage Directive
CE-EMC	EN IEC 55015:2019, EN IEC 61547:2023 EN IEC 61000-3-2:2024, EN IEC 61000-3-3:2023	Electromagnetic Compatibility Directive
CE-ErP	(EU) 2019/2020 (EU) 2019/2015	Energy-Related Products Directive
RoHS	EN IEC 62321-3-1:2019 EN IEC 62321-4:2023	RoHS Directive
CB	IEC 60598-2-3:2023, IEC 60598-2-5:2023 IEC 60598-1:2020, IEC TR 62471:2023	European Norms Electrical Certification
ENEC	EN IEC 60598-2-3:2023, EN IEC 60598-2-5:2023 EN IEC 60598-1:2021, IEC TR 62471:2023 EN IEC 62493:2023	European Norms Electrical Certification
SAA	AS/NZS 60598.2.3:2021 AS/NZS 60598.1:2021	Australia/New Zealand Standards
ATEX	EN IEC 60079-0:2018, EN IEC 60079-11:2023 EN 60529:1991+A1:2000+A2:2013	ATEX Directive
UL	UL 1598:2023, UL 8750:2023 CSA C22.2 No. 250.0:2022, CSA C22.2 No. 250.13:2022	North American Safety Standards
FCC	Title 47 CFR Part 15	Federal Communications Commission
PSE	JIS C 8105-1:2021	Product Safety Electrical Appliance & Materials
Photobiological Safety	IEC TR 62471:2023	Photobiological Safety Standard
Vibration Test	ANSI C136.31:2022	3G Bridge and Overpass Vibration Standard
Salt Spray Test	ISO 9227:2022 ASTM B117-22	5000 Hours Salt Spray Endurance
Impact Resistance Test	IEC 62262:2022	IK10 Rated

Certification & Standards

Certification	Standards	Remark
Waterproof Test	IEC 60529:2013	IP66 Rated
Photometric and Integrating Sphere Test	IES LM-79-19, ANSI C82.77:2023 ANSI C78.377:2023, CIE 13.3:2023 CIE 15:2023, IES TM-15-20, IES LM-63-23	Photometric Performance Testing
LED Module	EN IEC 62031:2023	LED Module Safety Standard
LED Lamps	IES LM-80-23, ANSI C78.377:2023 JESD22-A108F, JESD22-A101E, JESD22-A105D JESD22-B104D, JESD22-A114F	LED Lamp Performance and Reliability Standards
LED Driver	EN IEC 61347-1:2023, EN IEC 61347-2-13:2023 EN IEC 62384:2023, EN IEC 55015:2019 EN IEC 61000-3-2:2024, EN IEC 61000-3-3:2023 EN IEC 61547:2023, IEC 62386-102:2014+A1:2019 IEC 62386-207:2022, UL 8750:2023, FCC Part 15	LED Driver Safety and EMC Standards
Surge Protection Device	IEEE C62.41.2-2023 UL 1449:2023	Surge Protection Performance Standard
Receptacle	ANSI C136.10:2023	Luminaire Receptacle Standard
Dimming Receptacle	ANSI C136.41:2023	Dimming Control Receptacle Standard



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