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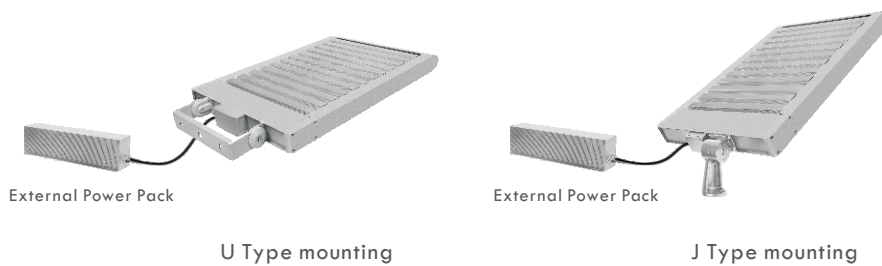
Model P Max Flood Light
2022 V1

Model P MAX



Model P MAX

LED Flood Light



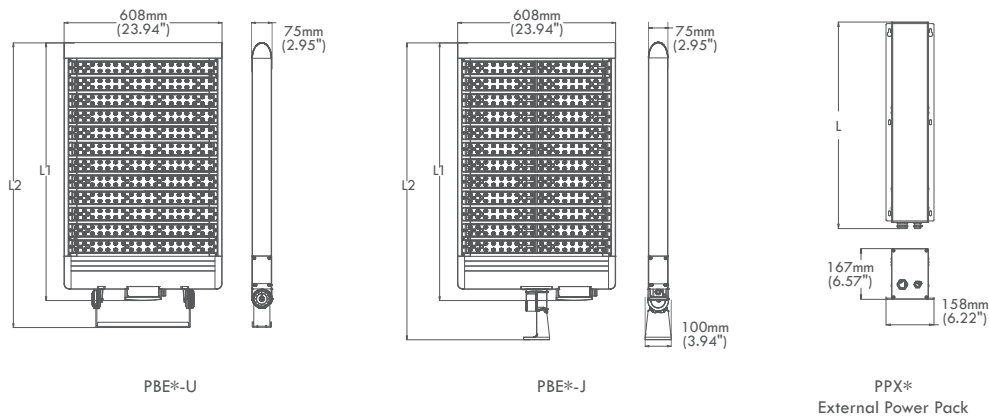
Product Introduction

The Model P Max 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.

Dimension



Performance Summary

Input Voltage	100-277VAC or 277-480VAC, 50/60Hz
Nominal Power	1280W~1920W
Efficiency	Up to 130 LPW
CRI	Ra>70(Default)/Ra>80/Ra>90
Power Factor	>0.9 at full load
Total Harmonic Distortion	<20% at full load
Surge Protection Device	Imax 10KA
Optic(IESNA)	Type II, Type III, Type IV, Type V
Operating Temperature	-40°C~+50°C
Accessories & Options	1-10V Dimming, PWM, DALI, Motion Sensor, Photocell, Back Light Shield, Bird Spike
Color Options	Gray, Black, Bronze
L70/L90	>200,000H/>60,000H
Limited Warranty	10 years limited warranty



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

Ordering Information

Example:PBE1280L-PPX-U-T4S-50K-GY-DIM

MODEL	INPUT VOLTAGE	EXTERNAL POWER PACK	MOUNTING	COMMON OPTIC	CCT	COLOR	OPTIONS
PBE1280	L	PPX	U	T2S	19K	GY Gray-RAL7004	DIM 1-10V Dimming
PBE1920	L			T3S	1900K		
	H		J	T3M	22K	BK Black-RAL9011	PWM 10V PWM Control
	H			T4VS	2200K		
	H			T4S	30K	BZ Bronze-RAL8019	DALI DALI Control
	H			T4M	3000K		
	H			T5M	40K		BLS Back Light Shield
	H			T5W	4000K		BSP Bird Spike
	H			T10D	50K		ORL Optics Rotated Left
	H			T20D	5000K		ORR Optics Rotated Right
	H			T40D	57K		
	H			T60D	5700K		
	H			T90D			

With the exception of the DIM, all options require prior confirmation with the engineer team. Option to equip with NEMA 7 Pin receptacle & Smart Lighting Node, to be compatible with wireless mesh control system.

Specification Features

Construction Extruded aluminum driver enclosure thermally isolated from Light Squares 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. Optional tool-less hardware available for ease of entry into electrical chamber. 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. With multiple spill light control options, it diminishes the light that shines towards the sky and windows of houses around the field of play to protect night preservation and biodiversity and minimize light nuisance issues.

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 P is suitable for operation in -40°C to 50°C ambient environment. Available in standard 1400mA driver current .











Mounting U-type & J-type mounting allow for mounting flexibility. Each type of mounting method can be shifted by only change the mounting bracket for ease of installation and stock. Extruded aluminum arm includes internal bolt builders allowing for easy positioning of fixture during mounting.

Finish Housing finished in super durable powder coat paint, corrosion resistant polyester powder painted 100µm thickness. Meets 1000-hour salt spray certification per ASTM Standard B117. Standard housing colors of Gray, other housing colors can be customized.











- Certification**
- cULus Listed
 - CE-LVD/CE-EMC/CB
 - SAA
 - DLC Premium qualified versions available
 - IP66 /IK10
 - RoHS compliant
 - Endurance tested to withstand 1,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B117
 - 10KA surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
 - Certified to ANSI C136.31-2010, 3G bridge and overpass vibration standards

Luminaire EPA

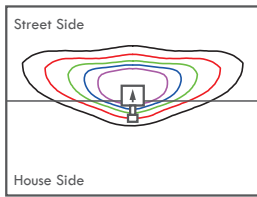
U Type Adjustable Arm Mount

	0°Tilt	10°Tilt	20°Tilt	30°Tilt	45°Tilt	60°Tilt	70°Tilt	80°Tilt	90°Tilt
									
PBE1280	0.82	1.28	1.75	2.21	2.67	3.13	3.60	4.06	4.52
PBE1920	0.96	1.52	2.20	2.85	3.48	4.11	4.70	5.34	6.02

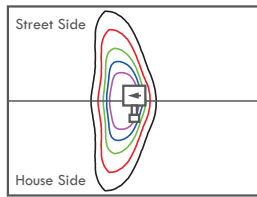
J Type Adjustable Arm Mount

	0°Tilt	10°Tilt	20°Tilt	30°Tilt	45°Tilt	60°Tilt	70°Tilt	80°Tilt	90°Tilt
									
PBE1280	0.82	1.28	1.75	2.21	2.67	3.13	3.60	4.06	4.52
PBE1920	0.96	1.52	2.20	2.85	3.48	4.11	4.70	5.34	6.02

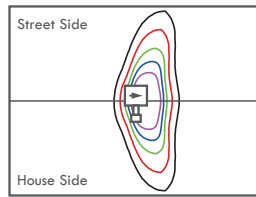
Optic Orientation



Standard

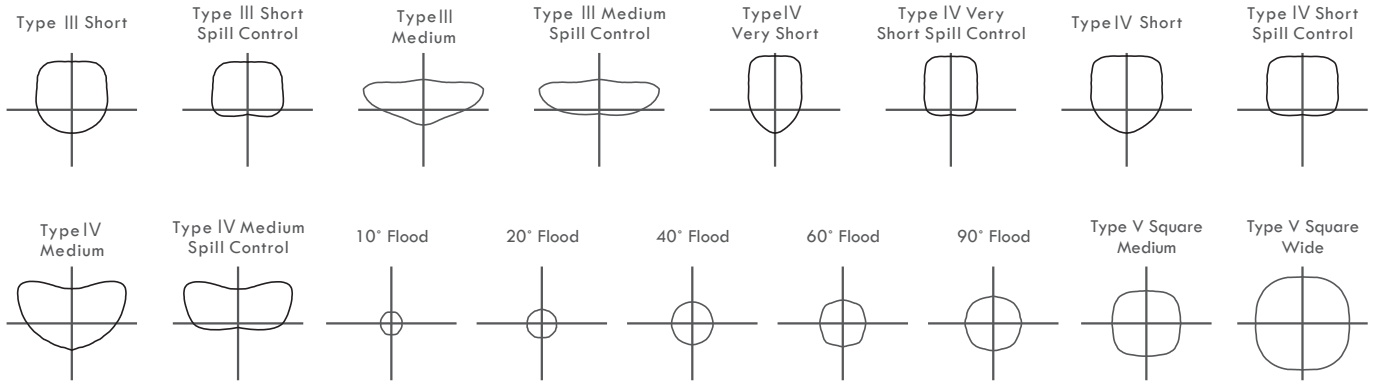


Optics Rotated Left @ 90°

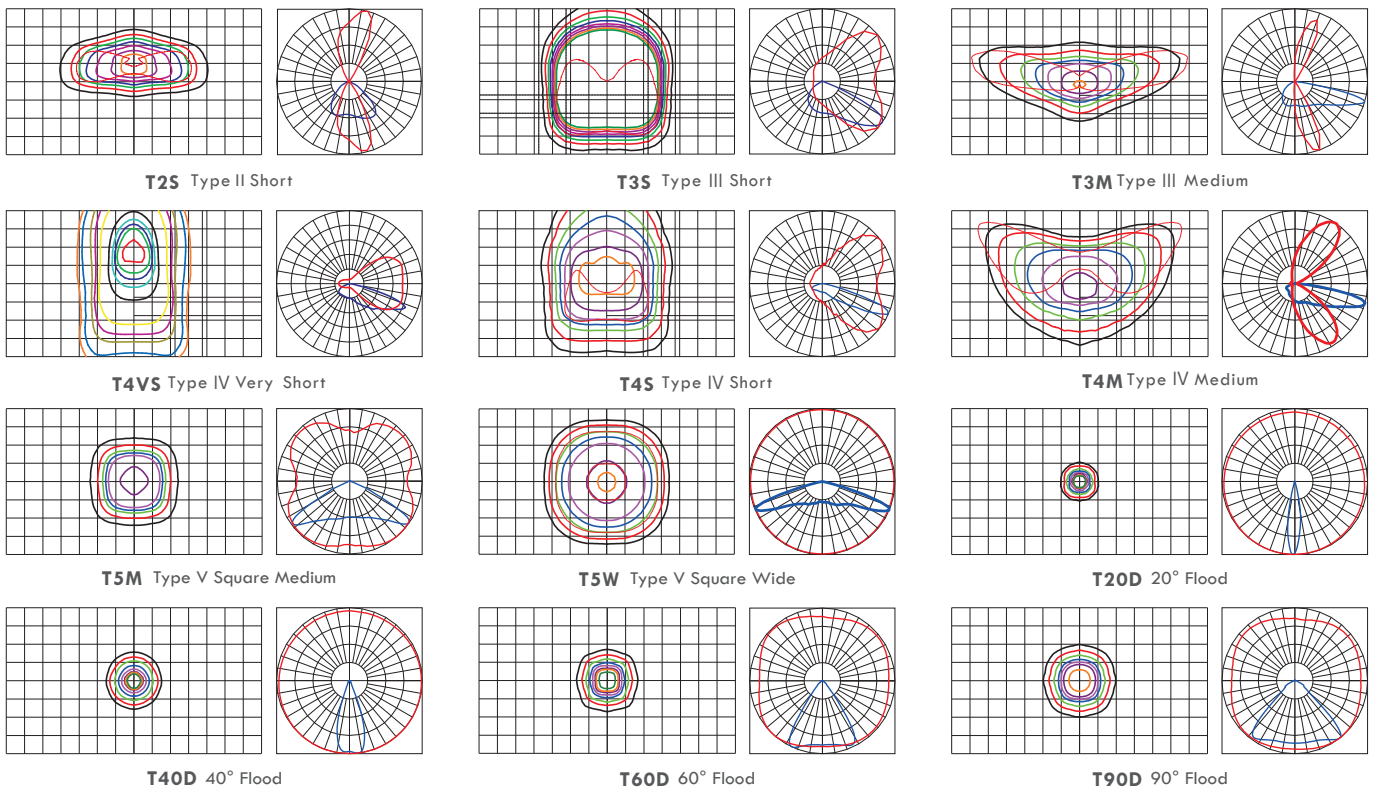


Optics Rotated Right @ 90°

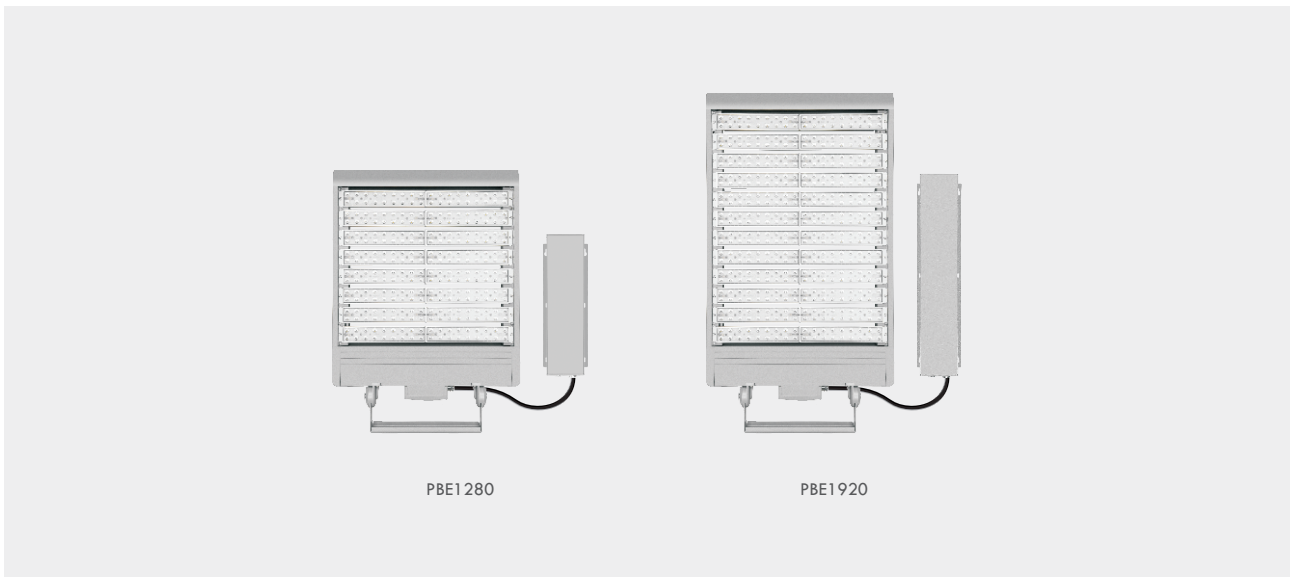
Optical Distributions



Photometry



Product Image



Brief Specifications

Model	Nominal power	LED current	Module number	Module power	Product size L*W*H (mm/in)	Packing size L*W*H (mm/in)	Net weight	Gross weight	Typical luminous flux(lm)	Typical efficiency (lm/W)
100-277VAC										
PBE1280L	1280W	1400mA	8	160W	845(33.27)*608(23.94)*75(2.95)	915(36.02)*700(27.56)*160(6.30)	18.3KG	21.0KG	163840	128
PBE1920L	1920W	1400mA	12	160W	1095(43.11)*608(23.94)*75(2.95)	1165(45.87)*700(27.56)*160(6.30)	22.8KG	25.8KG	245760	128
277-480VAC										
PBE1280H	1280W	1400mA	8	160W	845(33.27)*608(23.94)*75(2.95)	915(36.02)*700(27.56)*160(6.30)	18.3KG	21.0KG	163840	128
PBE1920H	1920W	1400mA	12	160W	1095(43.11)*608(23.94)*75(2.95)	1165(45.87)*700(27.56)*160(6.30)	22.8KG	25.8KG	245760	128
External Power Pack										
PPX-1280W	/	/	/	/	401(15.79)*158(6.22)*167(6.57)	445(17.52)*215(8.46)*230(9.06)	9.1KG	9.7KG	/	/
PPX-1920W	/	/	/	/	680(26.77)*158(6.22)*167(6.57)	725(28.54)*215(8.46)*230(9.06)	13.0KG	13.9KG	/	/

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

CERTIFICATION & STANDARDS

Certification	Standards	Remark
CE-LVD Low Voltage Directive (2014/35/EC)	EN 60598-2-3/A1:2011	Applicable for Street Light
	EN 60598-2-5:2015	Applicable for Flood Light
	EN 60598-1:2015/A11:2018	
	EN 62471:2008	
	EN 62493:2015	
CE-EMC Electromagnetic Compatibility Directive (2014/30/EU)	EN 55015:2013/A1:2015	
	EN 61547:2009	
	EN 61000-3-2:2014	
	EN 61000-3-3:2013	
CE-ErP Energy-Related Products Directive (2009/125/EU)	EU 1194/2012:2012-12-12	
	EC 244/2009:2009-03-18	
	EU 859/2009:2009-09-18	
CE-RoHS Directive (2011/65/EU)	EN 62321:2009	
CB	IEC 60598-2-3/A1:2011	Applicable for Street Light
	IEC 60598-2-5:2015	Applicable for Flood Light
	IEC 60598-1:2014	
	IEC 62471:2006	
	IEC 62471-2:2009	
ENEC	EN 60598-2-3/A1:2011	Applicable for Street Light
	EN 60598-2-5:2015	Applicable for Flood Light
	EN 60598-1: 2015/A1: 2018	
	EN 62471:2008	
SAA	EN 62493:2010	
	AS/NZS 60598.2.3:2015	
ATEX ATEX 95 Equipment Directive(94/9/EC)	AS/NZS 60598.1:2017	
	EN 60079-0:12	
	EN 60079-11:12	
UL	EN 60529:1989+A1:1999	
	UL1598	
	UL8750	
	CSA C22.2 No. 250.0-08	
FCC	CSA C22.2 No. 250.13-14	
PSE	Title 47 CFR Part 15	
Photobiological Safety	日本電気用品安全法省令別表第八(Safety)	
	日本電気用品安全法省令別表第十(EMC)	
Vibration test	EN 62471:2008	
	IEC 62471:2006	
Salt spray test	ANSI C136.31-2010	Applicable for Street Light
	IEC/EN 60598-2-5 clause 5.6.7	Applicable for Flood Light
IK08 Impact resistance test	ISO 9227:2012	
	ASTM B117	
IP65 or IP67 test	IEC 62262:2002	
Photometric and Integrating Sphere test	IEC/EN 60598-1:2015 clause 9.2.2 and clause 9.2.6 or clause 9.2.8	
	IES LM-79-2008	
	ANSI C82.77-2002	
	ANSI C78.377-2011	
	CIE 13.3-1995	
	CIE 15-2004	
	IES TM-15-11	
IES LM-63-2002		
LED Module	IEC/EN 62031:2008+A1:2013	
LED Lamps	IES LM-80-2008	
	ANSI C78.377-2011	
	JESD22 A108	
	JESD22 A101C	
	JESD22 A105	
	JESD22 B104	
LED Driver	JESD22 A114	
	EN 61347-1:2008	
	EN 61347-2-13:2006	
	EN 62384:2006+A1:2009	
	EN 55015:2006+A1:2007+A2:2009	
	EN 61000-3-2:2006+A1:2009+A2:2009	
	EN 61000-3-3:2008	
	EN 61547:2009	
	IEC 62386 Part 102 and Part 207	Applicable for DALI
	UL1012 UL879 UL935	
FCC Title 47 CFR Part 15 Class A		
Surge Protection Device	ANSI/IEEE C62.41.2-2002	
Receptacle	UL1449	
Dimming Receptacle	ANSI C136.10-2010	
	ANSI C136.41-2013	

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