

PAF2

LED Area, Wall and Flood Light



DESCRIPTION

Pantheon's PAF2 is a flexible area, flood, or wall mounted light for parking, security, retail centers, industrial parks, universities, public transit centers, office buildings, and medical facilities. With three color temperatures and a wide choice of optical distributions and control options the PAF2 is designed to replace metal halide lighting systems from 150W to 400W and as an area light can be mounted at a height from 14 to 25 feet depending on the required light level and uniformity. The soft glass lens, available for increased visual comfort, and the high calculated lumen maintenance make the PAF2 an ideal choice.



Date: _____ Type: _____ Catalog Number: _____

Project Name: _____



ORDERING INFORMATION

FIXTURE	MODEL	CCT	DRIVER	OPTICS	LENS	FINISH	MOUNTING	OPTIONS
PAF2	65W ¹	30K ² 3000K	UNV 120-277V	T1 Type 1	C Clear	BRZ Bronze	ARM Mounting Arm	SF Single Fuse
	81W	40K 4000K	347V 347-480V (81W only)	T2 Type 2	S Soft	CC Custom	SLF Slipfitter	DF Double Fuse
	112W	50K 5000K		T3 Type 3			PMA Pole Mount Arm	SP Surge Protection
				T4 Type 4			YK Yoke	MIR1 Motion Sensor, IR for mounting heights of 20ft to 35ft
				T5 Type 5			TRN Trunion	MIR2 Motion Sensor, IR for mounting heights of 18ft or less
			NB ³ Narrow Beam			WM Wall Mount	PCR3 3-Pin Twist Lock Photocell Receptacle	
						KNL Knuckle Mount	PCR5 5-Pin Twist Lock Photocell Receptacle	
							PCR7 7-Pin Twist Lock Photocell Receptacle	
							MSD Microwave Motion Sensor with Dimming for Mounting Heights ≤25' (120-277VAC)	

¹ Use T3 & T4 with 4K & 5K only.

² 30K use with 81W optics T2, T3, T4, or T5. Use with 112W optics T4 or T5.

³ NB use with 81W or 112W 50K options only.

MS
Microwave On/Off Motion Sensor with Dimming for Mounting Heights 8'-19' (120-277VAC)

ACCESSORIES

RPADPT Die-Cast Adaptor for 3" to 4" Round Poles, Bronze Powdercoat Finish. Use with ARM Mounting Arm only	PCUNVTL 120-277VAC Universal Twist Lock Photocell
WMADPT Die-Cast Wall Mount Adaptor, Bronze Powdercoat Finish. Use with ARM Mounting Arm only	PC480TL 480VAC Time Delay Twist Lock Photocell. For 480V use only
TLNSC Twist Lock Non-Shorting (Open) Cap Disconnects Service to Fixture for Temporary or Permanent Disabling (Fixture Always Off). IP65, 480V Maximum	LCHSNG Die-Cast Accessory Housing for Installing Sensors or Other Lighting Controls, Bronze Powdercoat Finish.
TLSC Twist Lock Shorting Cap Provides Fixed Service to Fixture (Fixture Always On). Rated Load 7200w Tungsten	VISOR Aluminum Glare/House Side Shield, Bronze Powdercoat Finish, Includes Hardware
PCTD120 120VAC Time Delay Twist Lock Photocell	WG Wire Guard, Stainless Steel Construction, Includes Hardware
PCTD277 277VAC Time Delay Twist Lock Photocell	LCHSNGPC Bronze UV-Stabilized Polycarbonate Housing for Installing Sensors, Includes Sensor Bracket and Gasket



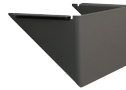
RPADPT



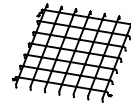
WMADPT



LCHSNG



VISOR



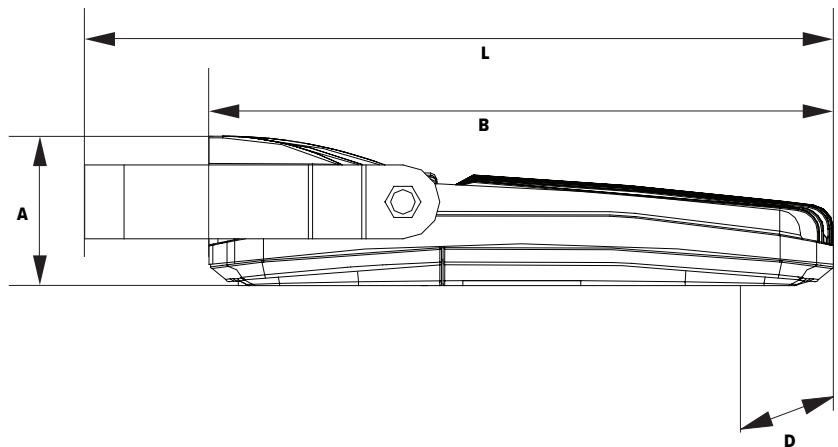
WG



LCHSNGPC

DIMENSIONS

WIDTH (D)	13 3/8" (340mm)
LENGTH (B)	15" (381mm)
HEIGHT (A)	3 5/8" (92mm)
LENGTH WITH MOUNT (L)	ARM Mounting Arm 19 1/4" (491mm)
	SLF Slipfitter 18 3/4" (476mm)
	PMA Pole Mount Arm 19 1/8" (486mm)
	YK Yoke 18" (457mm)
	TRN Trunion 18 3/4" (394mm)
	WM Wall Mount 16" (406mm)



PHOTOMETRIC PERFORMANCE

LED Board Watts	Drive Current (mA)	Input Watts	Optics		5000 CCT 80 CRI					4000 CCT 80 CRI					3000 CCT 80 CRI				
					Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
65W	525	68	T2	Type III	7,089	105	2	0	2	6,823	101	2	0	2	-	-	-	-	-
			T5	Type V	6,762	100	2	0	0	6,508	96	2	0	0	-	-	-	-	-
81W		84	T1	Type I	10,503	125	3	0	2	10,109	120	3	0	1	-	-	-	-	-
			T2	Type II	10,019	119	2	0	2	9,644	115	2	0	2	9,268	110	2	0	2
			T3	Type III	11,007	131	2	0	2	10,594	126	2	0	2	10,181	121	2	0	2
			T4	Type IV	10,338	123	1	0	2	9,950	118	1	0	2	9,563	114	1	0	2
			T5	Type V	10,499	125	3	0	1	10,106	120	3	0	1	9,712	115	3	0	1
			NB	30°H x 30°V	10,181	121	-	-	-	-	-	-	-	-	-	-	-	-	-
112W		121	T1	Type I	15,214	126	3	0	2	14,644	121	3	0	2	-	-	-	-	-
			T2	Type II	14,514	120	2	0	2	13,970	115	2	0	2	-	-	-	-	-
			T3	Type III	15,944	132	3	0	3	15,346	127	3	0	3	-	-	-	-	-
			T4	Type IV	14,039	116	2	0	3	13,513	112	2	0	3	12,986	107	2	0	3
	T5		Type V	15,209	126	3	0	1	13,637	113	3	0	1	13,161	109	3	0	1	
	NB		30°H x 30°V	14,078	116	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROJECTED LUMEN MAINTENANCE

Data shown for 5000 CCT		Compare to MH				
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated LED Life
L70 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 121w	1.00	0.98	0.95	0.91	320,000
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.95	0.89	0.79	141,000
L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.96	0.93	0.85	134,000

NOTES:
 1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 525mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
 2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.

CONTROLS

Fixtures Ordered with Factory-Installed Photocell or Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Implied and May Not Be Available, Please Consult Factory.

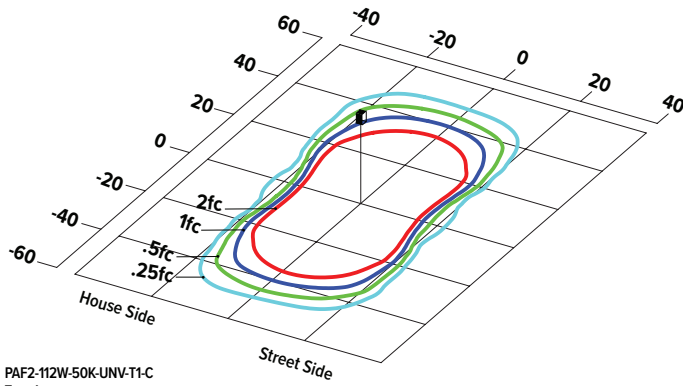
MOUNTING OPTIONS

PAF2 with Mounting Arm (ARM)	PAF2 with Slipfitter (SLF)	PAF2 with Pole Mount Arm (PMA)
Die-Cast Mounting Arm, Bronze Powdercoat Finish, Includes Hardware. Mounts Directly to Square Poles	External Mount Die-Cast Adjustable Slipfitter for 2 $\frac{3}{8}$ " Tenons, Bronze Powdercoat Finish, Includes Hardware.	Die-Cast Adaptor for 2 $\frac{3}{8}$ " Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
PAF2 with Yoke (YK)	PAF2 with Trunion (TRN)	PAF2 with Wall Mount (WM)
Stamped Heavy-Duty Steel Yoke, Bronze Powdercoat Finish, Includes Hardware.	Two-Piece Stamped Steel Adjustable Bracket, Bronze Powdercoat Finish, Includes Hardware.	Die-Cast Wall Bracket, Bronze Powdercoat Finish, Includes Hardware.

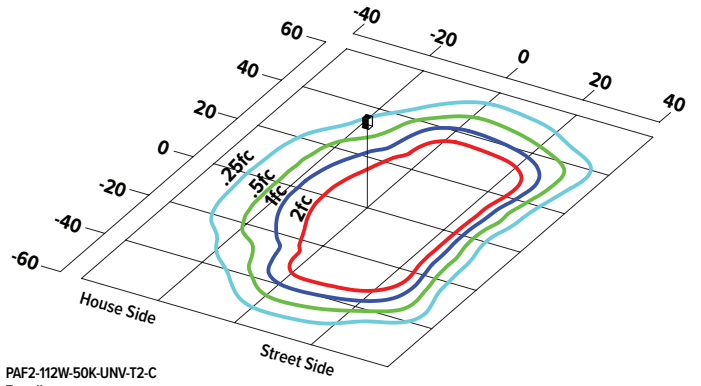
EPA (EFFECTIVE PROJECTED AREA) Shown with Arm Mount.

Configuration	EPA (Sq. Ft.)	Weight (lbs.)
	0.60	15 lbs.
	1.20	30 lbs.
	0.82	30 lbs.
	1.20	45 lbs.
	1.32	45 lbs.
	1.32	60 lbs.

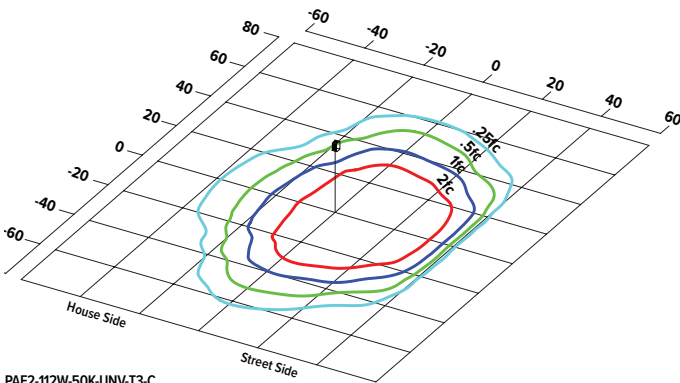
PHOTOMETRIC DATA



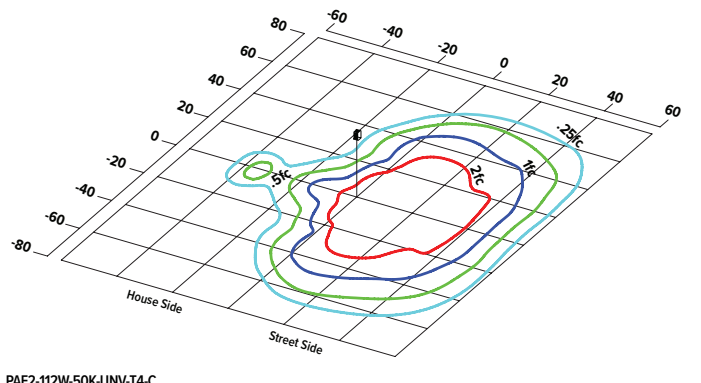
PAF2-112W-50K-UNV-T1-C
Type I
Grid in MH
MH=20 Feet



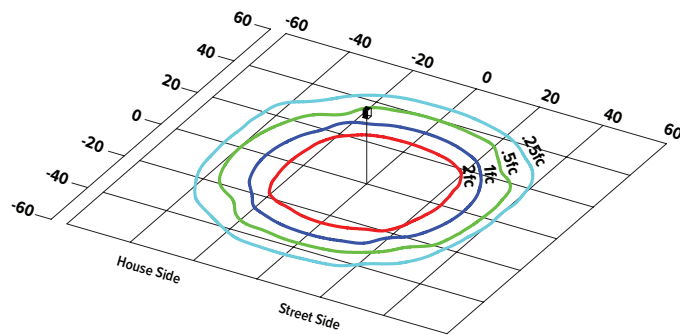
PAF2-112W-50K-UNV-T2-C
Type II
Grid in MH
MH=20 Feet



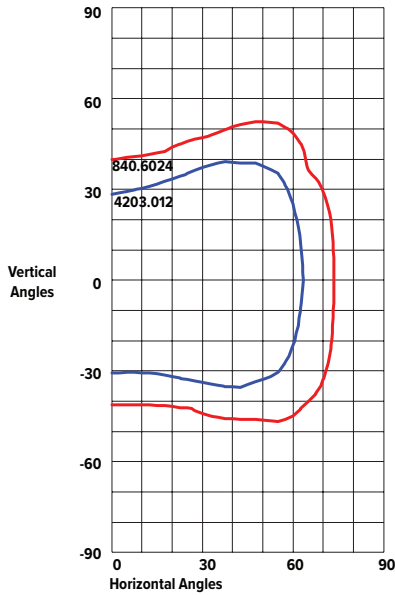
PAF2-112W-50K-UNV-T3-C
Type III
Grid in MH
MH=20 Feet



PAF2-112W-50K-UNV-T4-C
Type IV
Grid in MH
MH=20 Feet

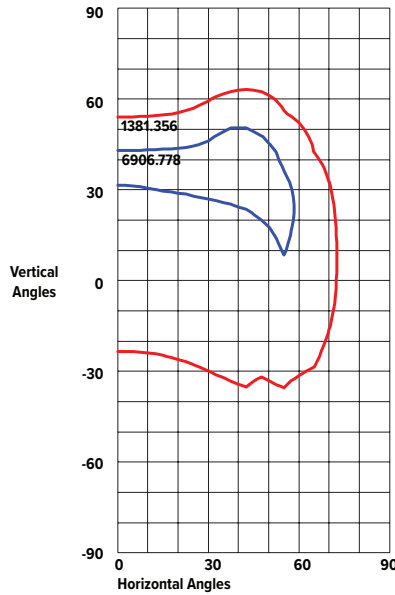


PAF2-112W-50K-UNV-T5-C
Type V
Grid in MH
MH=20 Feet



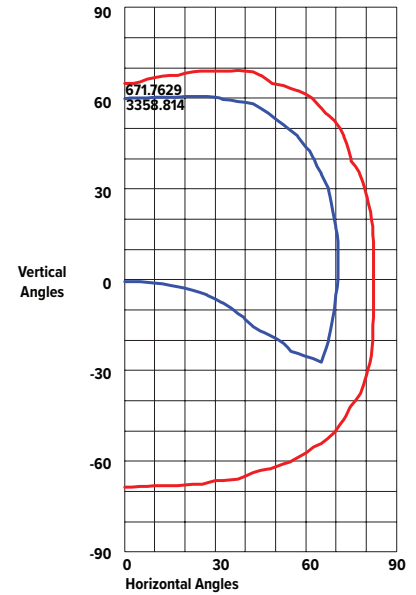
Maximum Candela = 8406.024 Located at Horizontal Angle = 47.5, Vertical Angle = 0
 50% Maximum Candela = 4203.012
 10% Maximum Candela = 840.6024

PAF2-112W-50K-UNV-T1-C
 130°H x 70°V, NEMA 7H x V



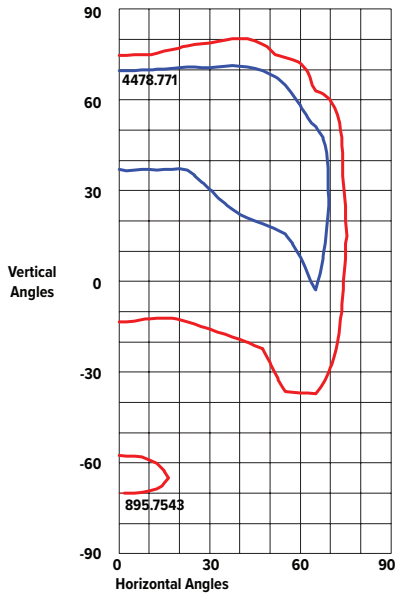
Maximum Candela = 13813.556 Located at Horizontal Angle = -42.5, Vertical Angle = 37.5
 50% Maximum Candela = 6906.778
 10% Maximum Candela = 1381.3556

PAF2-112W-50K-UNV-T2-C
 110°H x 30°V, NEMA 7H x 6V



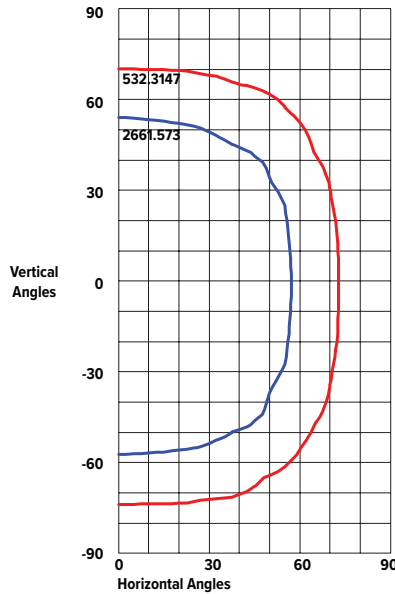
Maximum Candela = 6717.629 Located at Horizontal Angle = 37.5, Vertical Angle = 42.5
 50% Maximum Candela = 3358.8145
 10% Maximum Candela = 671.7629

PAF2-112W-50K-UNV-T3-C
 120°H x 70°V, NEMA 7H x 7V



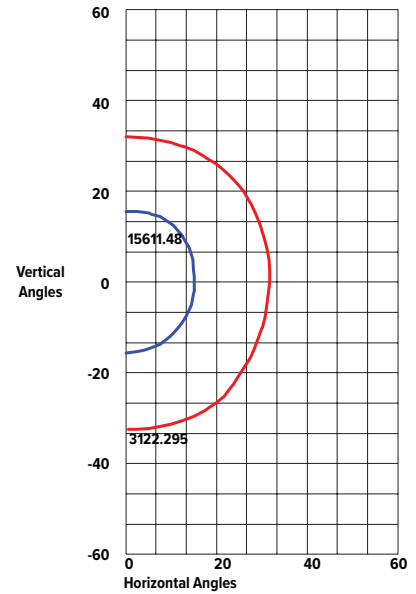
Maximum Candela = 8957.543 Located at Horizontal Angle = 22.5, Vertical Angle = 65
 50% Maximum Candela = 4478.7715
 10% Maximum Candela = 895.7543

PAF2-112W-50K-UNV-T4-C
 110°H x 30°V, NEMA 6H x 5V



Maximum Candela = 5323.147 Located at Horizontal Angle = -1, Vertical Angle = 3
 50% Maximum Candela = 2661.5735
 10% Maximum Candela = 532.3147




PAF2-112W-50K-UNV-T5-C
 115°H x 110°V, NEMA 7H x 7V



Maximum Candela = 31222.951 Located at Horizontal Angle = -1, Vertical Angle = 1
 50% Maximum Candela = 15611.4755
 10% Maximum Candela = 3122.2951

PAF2-112W-50K-UNV-NB-C
 30°H x 30°V, NEMA 4H x 4V

PRODUCT SPECIFICATIONS

LUMEN OUTPUT	Up to 15,944 @ 5000K (see photometric data chart for details)
EFFICACY	Up to 132 Lm/W (see photometric data chart for details)
LUMEN MAINTENANCE	(L70): >320,000 @ 25°C
COLOR TEMPERATURES	3000K, 4000K, 5000K
CRI	80CRI
OPTICS	Tempered Clear Flat or SoftLED Flat Glass Lens
OPERATING TEMPERATURE	-40°C to +50°C (-40F to +122F)
POWER CONSUMPTION	65W: System 68w 81W: System 84w 112W: System 121w
DRIVERS	Electronic Driver, 120-277V, 50/60Hz or 347-480V, 50/60Hz (81w Model Only); Less than 20% THD and PF>0.90. Standard Internal Surge Protection is 6kV. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.
CERTIFICATIONS	  
INGRESS PROTECTION	IP66 Sealed LED Compartment, Listed for Wet Locations
HOUSING	Die-Cast Aluminum Housing and Front Frame, Integral Heat Sinking and Driver Compartment. Photocell Adaptable. Nickel-Plated Stainless Steel Hardware.
FINISH	Textured Architectural Bronze Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.
MOUNTING OPTIONS	Mounts with Arm, 2 $\frac{3}{8}$ " Diameter Mounting Arm Adapter, Yoke, Adjustable Slipfitter, Two-Piece Bracket or Wall Mount Bracket (Factory Installed).