



### DESCRIPTION

Pantheon's PAL1 is a high performance area light with an architectural design delivering cost effective illumination for parking areas, walkways, and street lighting applications. The available distribution types II, III, IV, and V combined with four lumen packages offers tremendous flexibility for your applications. Depending on the required light level and uniformity, the PAL1 can be mounted at a height from 12 to 30 feet and is capable of replacing metal halide fixtures up to 400W.



Date:	_ Type:	_ Catalog Number:
Project Name:		





## ORDERING INFORMATION

FIXTURE	MODEL	CCT.	DRIVER	OPTICS	LENS	FINISH	MOUNTING	OPTIONS
PAL1 LED AREA LIGHT	37W	<b>30K</b> 3000K	<b>UNV</b> 120-277V	T2 Type II	<b>C</b> Clear	<b>BRZ</b> Bronze	ARM Mounting Arm	SF Single Fuse 120-277VAC
	65W	40K	347V	T3		BL	PMA	DF
		4000K	347-480V	Type III		Black	Pole Mount Arm	Double Fuse 120-277VAC
	100W	50K		T4		CC		SP
		5000K		Type IV		Custom		Surge Protection
	140W			T5				PCR3
				Type V				3-Pin Twist Lock
								Photocell Receptacle

### **ACCESSORY & REPLACEMENT PARTS**

#### TLNSC

Twist Lock Non-Shorting (Open) Cap Disconnects Service to Fixture for Temporary or Permanent Disabling (Fixture Always Off). IP65, 480V Maximum.

#### TLS

Twist Lock Shorting Cap Provides Fixed Service to Fixture (Fixture Always on). IP65, Rated Load 7200w Tungsten.

### PCTD120

120VAC Time Delay Twist Lock Photocell

### PCTD277

277VAC Time Delay Twist Lock Photocell

### PCUNVTL

120-277VAC Universal Twist Lock Photocell

#### PC4801

480VAC Time Delay Twist Lock Photocell. For 480V use only.

#### RPADP.

Die-Cast Adaptor for 3" to 4" Round Poles, Powdercoat Finish.

# PCR5

5-Pin Twist Lock Photocell Receptacle

#### PCR7

7-Pin Twist Lock Photocell Receptacle

#### MSD

Microwave Motion Sensor with Dimming for Mounting Heights 8'-40' (120-277VAC)

#### MS

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

#### EM

Battery Backup 90 minutes (37W and 65W only)

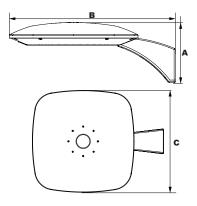






## **DIMENSIONS**

WIDTH (A)	8%" (213mm)
LENGTH (B)	23¼" (589mm)
WIDTH (C)	18" (457mm)



# PHOTOMETRIC PERFORMANCE

					4000 CCT 70 CRI				
LED Board Watts	Drive Current (mA)	Input Watts		Optics	Lumens	LPW	В	U	G
		42	T2	Type II Clear	5,469	130	1	0	1
2714			T3	Type III Clear	5,491	131	2	0	2
37W			T4	Type IV Clear	5,010	119	1	0	2
			T5	Type V Clear	5,495	131	3	0	1
		74	T2	Type II Clear	9,608	130	2	0	2
CEW			T3	Type III Clear	9,646	130	3	0	3
65W			T4	Type IV Clear	8,803	119	2	0	3
	525		T5	Type V Clear	9,653	130	3	0	2
40014	323	114	T2	Type II Clear	14,782	130	2	0	2
			T3	Type III Clear	14,842	130	3	0	3
100W			T4	Type IV Clear	13,543	119	3	0	3
			T5	Type V Clear	14,851	130	4	0	2
		159	T2	Type II Clear	20,694	130	3	0	3
440W			T3	Type III Clear	20,777	131	3	0	3
140W			T4	Type IV Clear	18,959	119	3	0	4
			T5	Type V Clear	20,791	131	4	0	2

## 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		1.00	0.98	0.95	0.91	327,000
L70 Lumen Maintenance @ 50°C / 122°F	All wattages up to and including 159w	1.00	0.94	0.89	0.78	134,000
L80 Lumen Maintenance @ 40°C / 104°F	including 10011	1.00	0.96	0.93	0.86	141,000

#### 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**



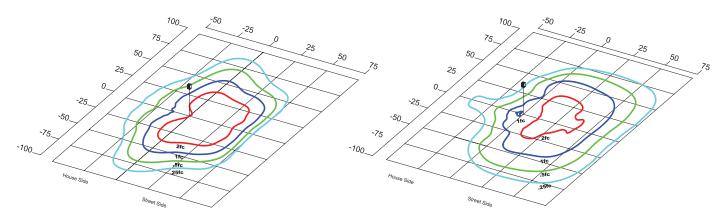
## EPA (EFFECTIVE PROJECTED AREA) Shown with Mounting Arm

Configuration	EPA (Sq. Ft.)	Weight (lbs.)
0=	1.00	21 lbs.
	2.00	42 lbs.
	1.36	42 lbs.
	2.00	63 lbs.
	2.20	63 lbs.
	2.20	84 lbs.





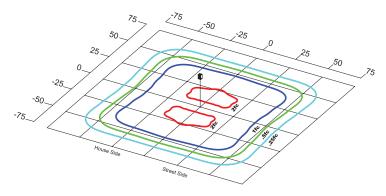
## PHOTOMETRIC DATA



PAL1-140W-40K-UNV-T3-C Type III

Type III Grid in MH MH=25 Feet PAL1-140W-40K-UNV-T4-C

Type IV Grid in MH MH=25 Feet



PAL1-140W-40K-UNV-T5-C

Type V Grid in MH MH=25 Feet





## PRODUCT SPECIFICATIONS

LUMEN OUTPUT	Up to 20,791 @ 4000K (see photometric data chart for details)
EFFICACY	Up to 131 Lm/W (see photometric data chart for details)
LUMEN MAINTENANCE	(L70): >327,000 hours @ 25C
COLOR TEMPERATURES	3000, 4000K, 5000K
CRI	80CRI
OPTICS	Clear UV-Stabilized Polycarbonate Vandal-Resistant Array Lens with Integral Optics. Gasketed to Seal LED Array
OPERATING TEMPERATURE	-40°C to +50°C (-40F to +122F)
POWER CONSUMPTION	37w Array: 37w, System: 41w 65w Array: 65.3w, System: 72w 100w Array: 100w, System: 111w 140w Array: 139.9w, System: 156w
DRIVERS	Electronic Driver, 120-277V, 50/60Hz or 347-480V, 50/60Hz; Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 6kV. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.
CERTIFICATIONS	EAA COURT OF THE PROPERTY OF T
INGRESS PROTECTION	IP66, Listed for Wet Locations
HOUSING	Die Cast and Sand Cast Aluminum Housing, Integral Heat Sinking. Photocell Adaptable.
FINISH	Black or Bronze Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.
MOUNTING OPTIONS	Mounts to Square Poles or Walls with Standard Arm, or to Round Poles Using the RPADPT Adaptor (Sold Separately). Mounts to 2%" Horizontal Mounting Arms with Optional Mounting Arm Adaptor.
WARRANTY	5-Year Warranty for -40°C to +50°C Environment.