

P8022 Series

LED New Construction and Remodel • Wet Location



Specifications:

Description:

The P8022 delivers a solution for flush mount and recessed applications, for both residential and commercial markets. In addition, the P8022 is wet located and is a cost effective solution for fire rated application. The P8022 features a 120V alternating current source and eliminates the need for a traditional LED driver. This modular approach results in an encapsulated luminaire that unites performance, cost and safety benefits.

Construction:

- Diffused polycarbonate lens controls direct glare from the LEDs
- Simple snap in installation for J-Box and Twist and Push for recessed housings
- Die-cast aluminum construction with a powder coat paint finish
- Can be installed in a 4" J-Box and 6", 5" and 4" recessed housing. (All hardware included)
- Lumen output and distribution comparable to a 100W incandescent lamp
- Suitable for use in IC or NON-IC Applications with 25°C (77°F) continuous room side ambient temperature.
- Provided with quick link for use with E26 Edison Base adapter
- Flicker-free dimming to 10% with most standard incandescent dimmers (See Dimming Notes)

Performance:

Input Power	17W
Input Voltage	120V
Input Frequency	60Hz
Lumens	1077 (LM-79)
CCT	3000K
CRI	80+
LPW	63
Life	42,000 (L70/TM-21)
EMI/RFI	FCC Title 47, Part 15, Class B
Min. Start Temp	-30° C
Max. Operating Temp	30° C
Warranty	5 yrs.
Labels	cCSAus classified for wet locations ENERGY STAR® qualified

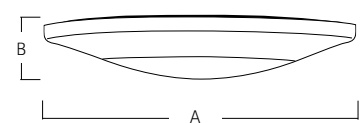
P8022-28/30K-AC1-L10

Images:



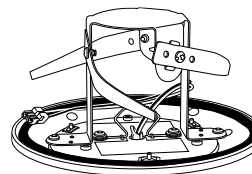
Dimensions:

A	B
7.25"	1.21"



Included Mounting Options:

Recessed Mount with quick link



Recessed Adapter



E26 Edison Base Adapter



J-Box mount with quick link



J-Box Adapter



Catalog number:

Base	Finish	Color Temp	Voltage	Lumen Package
P8022	28 - White	30K - 3000K	AC1 - 120V	L10 - 1077 Lumens

Photometrics:

P8022-28/30K-AC1-L10

ELECTRICAL DATA	P8022-28/30K-AC1-L10
Input Voltage	120V
Input Frequency	60 Hz
Constant Current Output	700mA
Power Factor	≥0.90
THD	<20%
EMI Filtering	FCC 47CFR Part 15, Class B
Operating Temperature	-30°C to 30°C
Dimming	Yes*
Over-voltage, over-current, short-circuit protected	
*See Dimming Notes for more information	

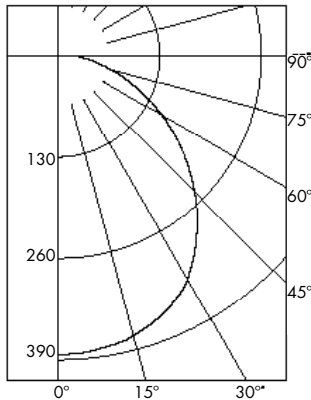
PERFORMANCE DATA CHART

Single Unit, Initial Footcandles, 30" Work Plane						Ceiling to Floor Height (ft)	Multiple Units, Initial Footcandles, 30" Work Plane				
Nadir		10°		20°			Spacing is Maximum Over Work Plane, SMH = 1.3				
FC	FC	Dia (ft)	Dia (ft)	FC	FC		FC	FC	RCR 2	RCR 5	RCR 7
31	29	1	25	3	17	4	6	5.0	47	33	27
13	12	2	10	4	7	6	8	7.0	19	13	11
6	6	3	5	6	3	9	10.5	10.0	9	6	5
4	4	3	3	7	2	11	12	12.0	6	4	4

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	302	28.0
0-40	493	45.7
0-60	848	78.6
0-90	1079	100.0

P8022-28/30K-AC1-L10
 LED Light Engine: 3000K, 83 CRI
 System Wattage: 16.7
 Fixture delivered lumens: 1079
 Fixture Efficacy: 64.4
 Spacing Criteria: 1.3



CANDELA DISTRIBUTION

DEG	CANDELA
0	383
5	382
15	372
25	349
35	305
45	247
45	185
55	124
65	69
75	29
90	16

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance											
	80%			70%			50%			30%		
	20% Effective Floor Cavity Reflectance											
	% Wall Reflectance											
	70	50	30	10	70	10	50	30	50	30	50	30
1	108	103	99	95	106	93	97	94	93	90		
3	90	79	71	65	87	64	75	68	72	66		
5	76	63	54	47	74	47	60	52	58	51		
7	65	52	43	37	63	36	49	42	48	41		
9	57	43	35	29	55	29	41	34	40	34		

P8022-28/30K-AC1-L10

Test No. 8660 2702498-01

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Tested at 25° Ambient in accordance to IESNA LM-79-2008

Dimming Notes:

P8022-28/30K-AC1-L10

P8022 is designed to be compatible with many 120VAC phase control dimmer controls including Incandescent (Forward Phase) and Electronic Low Voltage (ELV-Reverse Phase) controls. LED rated dimmer controls may offer favorable dimming performance.

The following is a partial list of known compatible dimmer controls:

Line Voltage - Forward Phase Controls (Most incandescent line voltage dimmers have minimum load requirements of approx. 40W and may require multiple LED modules per control)

Lutron	Diva Series	(Part number DV-600P)
Lutron	Skylark Series	(Part Number S-600P)
Lutron	Ariadni Series	(Part Number AY-600P)
Lutron	Faedra Series	(Part Number FA-600P)
Lutron	Lumea	(Part Number LG-600PH)
Leviton	Renoir II	(Part Number AWRMG-MAW)

Electronic Low Voltage ELV Reverse Phase Controls

Lutron	Diva Series	(Part Number DVELV-300)
Lutron	Nova T Series	(Part Number NTELV-300)
Lutron	Vierti Series	(Part Number VTELV-600)

LED Rated Controls

Pass & Seymour	(Part Number DCL453PTCCCV6)
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Incandescent Digital type dimmers are not recommended.

Dimming capabilities will vary depending on the dimmer control, load, and circuit installation. Always refer to dimmer manufacturer instructions or a controls specialist for specific requirements.

Dimmer control brand names where identified above are trade names or registered trademarks of each respective company.