

# P8171 SERIES

6IN LED Square Retrofit • Wet location listed



## Description:

The P8171 is ideal for use in both new construction as well as remodel/retrofit. The sleek geometric shape provides a high end appeal for residential and commercial spaces. Light output is comparable to that of a typical 65W incandescent downlight, providing up to 75% energy savings. The P8171 is equipped with both Edison base adaptor and quick link connector allowing easy installation in many standard round incandescent recessed housings.

## Specifications:

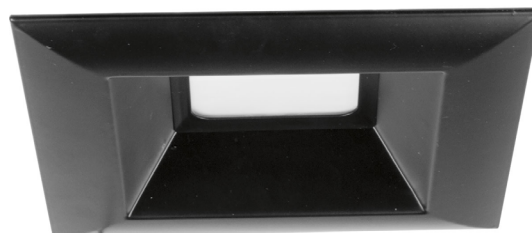
- Black finish
- Diffused polycarbonate lens controls direct glare from the LEDs
- Easy "Push and Twist" installation with (3) friction spring clips
- Can be installed in most 6" round recessed housings
- Dimmable to 10% with many Triac/Forward Phase dimmers
- Lumen output and distribution comparable to a 65W incandescent lamp
- Suitable for use in IC or NON-IC Applications
- Provided with quick link for use with E26 Edison Base adapter
- This product is not available for sale into the State of California.
- ENERGY STAR® qualified

## Performance:

Input Power	9w
Input Voltage	120 V
Input Frequency	60 Hz
Lumens/LPW	682/75.7 (LM-79)
CCT	3000 K
CRI	90+
Life (hours)	50,000 (L70/TM-21)
EMI/RFI	FCC Title 47, Part 15 Class B
Min. Start Temp	-30 °C
Max. Operating Temp	30° C
Warranty	5 year warranty
Labels	cCSAus Wet location listed
	ENERGY STAR® qualified

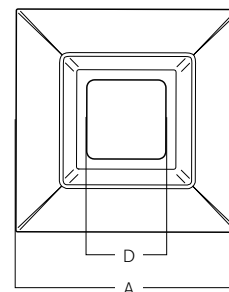
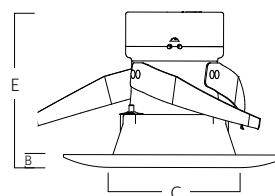
## Images:

### P8171-31-30K



## Dimensions:

- (A) Outside Square: 7"
- (B) Height: 0.31"
- (C) Inside Square: 4.25"
- (D) Light Emitting Surface (LES): 2"
- (E) Overall Ht.: 4-1/4"



**Photometrics:**

## P8171-31-30K

ELECTRICAL DATA	P8171-31-30K
Input Voltage	120 V
Input Frequency	60 Hz
Input Current	0.078 A
Power Factor	Greater than 0.90
THD	<20%
EMI Filtering	FCC Title 47, 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

### P8171-31-30K

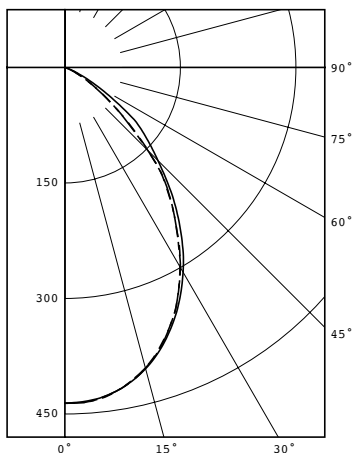
LED Light Engine: 3000 K, 90+ CRI  
 System Wattage: 9  
 Fixture Delivered Lumens: 682  
 Fixture Efficacy: 75.7  
 Spacing Criteria: 1.06

### CANDELA DISTRIBUTION

DEGREE	CANDELA					LUMENS				
	0.0	22.5	45.0	67.5	90.0					
0	436	436	436	436	436	436	436	436	436	436
5	434	433	433	433	433	434	434	434	434	41
15	404	404	405	404	404	404	404	404	404	114
25	342	344	346	344	342	342	342	342	342	157
35	252	256	263	257	252	252	252	252	252	161
45	153	168	171	166	152	152	152	152	152	125
55	58	69	91	68	57	65	65	65	65	65
65	14	17	21	17	13	18	18	18	18	18
75	0	0	0	0	0	0	0	0	0	1
85	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0

### ZONAL LUMEN SUMMARY

Zone	Lumens	%_Fixt
0-30	312	45.7
0-40	473	69.3
0-60	663	97.2
0-90	682	100.0
90-180	0	0.0
0-180	682	100.0



## P8171-31-30K

### Dimming Notes:

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P8171 is designed to be compatible with many Triac/Forward Phase controls.

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

### Dimming Controls

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Lutron NTEVL-300

Lutron AYLV-600P

Leviton 6672

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.