



LED

6" High Output Pro-Optic® LED

Recessed

Remodel Downlight

120-277V

0-10V Dimming

Type _____

-EB120V -EB277V

P8214

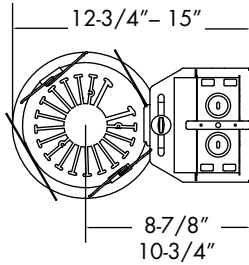
All Items **MTO**

LED Housing Catalog No. Description

Ceiling Cutout: see guide

Maximum Ceiling Thickness: 1-1/2"

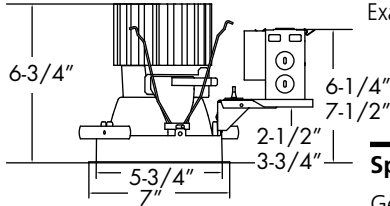
P8214-EB120V	6" LED 120V Remodel Housing
P8214-EB277V	6" LED 277V Remodel Housing
P8214-EBSD120V	6" LED Small Diameter 120V Remodel Housing
P8214-EBSD277V	6" LED Small Diameter 277V Remodel Housing



LED Trim Catalog No. Reflector Finish LED Color Temp Flange Options

<input type="checkbox"/> P8112	6" LED, 2800lm module	<input type="checkbox"/> -21A Clear Alzak®	<input type="checkbox"/> /30K 3000 Kelvin	<input type="checkbox"/> WF Wide Flange*
		<input type="checkbox"/> -22A Gold Alzak®	<input type="checkbox"/> /35K 3500 Kelvin	
		<input type="checkbox"/> -28 White	<input type="checkbox"/> /40K 4000 Kelvin	(White flange standard)

Example: P8112-21A/30KWF (Ordered separately)



* (only for Small Diameter Housings)

*Dimensions shown are for range of adjustability.

Specifications:

General

- 6" commercial grade LED downlight utilizing remote phosphor technology to obtain color consistency, energy savings, and low maintenance costs
- The P8214 is specifically designed to retrofit into ceilings with existing downlights without the need to removed the existing fixture
- 50,000 hours minimum life up to 40°C (104° F) in open plenum applications

Housing

- All components are made from quality die cast aluminum or galvaneal steel.
- Pre-wired J-box with snap-on cover for easy access.
- Snap-in connection from driver compartment allows easy installation of light engine/trim assembly without tools above or below the ceiling
- Approved for 8 (4 in/4 out) No. 12 AWG conductors rated for 90°C through wiring

Reflector

- High purity aluminum Alzak, iridescence suppressed, semi-diffuse reflector
- Self-flanged trim standard
- White painted self-flanged trim (-28) option available

LED Light Engine

- The P8214 uses the Philips Fortimo DLM LED Module with remote phosphor technology. This technology provides controlled color consistency from fixture to fixture
- The system is designed for optimal life and lumen maintenance (50,000 hours at 70% lumen maintenance)
- Both reflector and light engine assembly are mechanically retained to housing. The light engine comes standard with 80 CRI for all CCT's

LED Driver

- Driver is designed to match the 50,000 hour minimum life expectancy of the system
- Meets UL Class 2, inherent short circuit protection, self limited, overload protected
- Integrated thermal feedback loop will gradually reduce current to protect system life
- Universal driver 120V-277V

Dimming

- Flicker-free 0 – 10V dimming to 10%

Labeling

- cCSAus certified to US and Canadian safety standards
- Suitable for wet locations
- 5 year warranty

Progress Lighting
 701 Millennium Blvd.
 Greenville, South Carolina
 29607



LED

**6" High Output Pro-Optic® LED
P8214/P8112**

Recessed

DRIVER DATA	P8112-EB120V			P8112-EB277V		
	P8112 30K	P8112 35K	P8112 40K	P8112 30K	P8112 35K	P8112 40K
Input Voltage	120V	120V	120V	277V	277V	277V
Input Frequency	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz
Input Current	0.5A	0.5A	0.5A	0.28A	0.28A	0.28A
Input Power	49W	46W	46W	48W	45W	45W
Constant Current Output	.3 – 1.0 A	.3 – 1.0 A	.3 – 1.0 A	.3 – 1.0 A	.3 – 1.0 A	.3 – 1.0 A
Power Factor	≥0.90	≥0.90	≥0.90	≥0.90	≥0.90	≥0.90
THD	<20%	<20%	<20%	<20%	<20%	<20%
EMI Filtering	FCC 47CFR Part15, Class A	FCC 47CFR Part15, Class A	FCC 47CFR Part15, Class A	FCC 47CFR Part15, Class A	FCC 47CFR Part15, Class A	FCC 47CFR Part15, Class A
Operating Temperature	-20°C to 55°C	-20°C to 55°C	20°C to 55°C	-20°C to 55°C	20°C to 55°C	-20°C to 55°C
Dimming	0-10V	0-10V	0-10V	0-10V	0-10V	0-10V

Dimming 0-10V 100% to 10%

Pro-Optic LED driver is compatible with 0-10V type dimming controls. Recommended dimming controls are listed below.

Control Manufacturer	Wallbox Dimmer	Power Booster Available
Douglas Lighting controls	WPC 5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V) Tap Glide Heatsink TGH1500FAM120 (120V) Oasis OA2000FAMU (120/277V)	
Honeywell, Inc.	EL 7315A1019 and EL7315A1009	EL7305A1010
HUNT Dimming	Preset Slide: PS-010-IV-120V and PS-010-WH-120V Preset Slide: PS-010-3W-IV-120V and PS-010-3W-WH-120V Preset Slide: PS-010-IV-277V and PS-010-WH-277V Preset Slide: PS-010-3W-IV-277V and PS-010-3W-WH-277V Preset Slide, controls FD-010: PS-IFC-010-IV- and PS-IFC-010-WH-120/277V Preset Slide, controls FD-010: PS-IFC-010-3W-IV- and PS-IFC-010-3W-WH-120/277V Remoted mounted unit: FD-010-120V and FD-010-277V	
Lehigh Electric Products Co.	Solitaire	PBX
Leviton Lighting Controls Div.	Leviton Centura Fluorescent Control System IllumaTech™ IP7 Series	CN100 PE300
Lutron Electronics Co., Inc.	Visit www.lutron.com/advance for the latest control information and selection	
PDM Electrical products	WPC-5721	
Starfield Controls	TR61 with DALI interface port	RT03 DAL Inet router
The Watt Stopper, Inc.	LS4 used with LCD-101 and LCD-103	





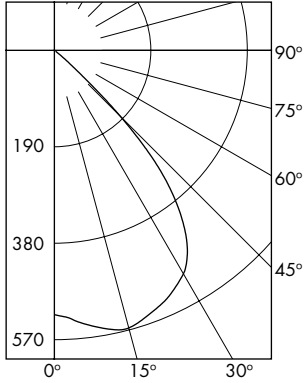
LED

6" High Output Pro-Optic® LED
P8214/P8112

Recessed

P8214-EB120V WITH P8112-21A/35K

LED Light Engine: 3500K, 80 CRI
System Wattage: 48.5W
Fixture Delivered Lumens: 2313
Fixture Efficacy: 47.7
Spacing Criteria: 1.3



CANDELA DISTRIBUTION		
DEG	CANDELA	LUMENS
0	1370	
5	1413	136
15	1490	418
25	1406	647
35	1194	731
45	485	363
55	7	15
65	2	2
75	0	0
85	0	0
90	0	

Test No. 5253

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1202	52.0
0-40	1933	83.5
0-60	2310	99.9
0-90	2313	100.0
90-180	0	0.0
0-180	2313	100.0

LUMINANCE DATA IN CANDELA/ SQ. METER

Angle in Vertical	Average - 0°
45°	40927
55°	728
65°	282
75°	0
85°	0

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																
	80%			70%			50%			30%			10%				
	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30		
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60
7	78	68	61	56	77	67	60	56	66	60	56	64	59	55	63	58	55
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	47	43

P8214-EB120V P8112-21A/35K

Test No. 5253

