

P8064 Series

4" Pro-Optic® LED
 New Construction Downlight



SPECIFICATIONS:

General

- 4" commercial grade LED downlight utilizing remote phosphor technology to obtain color consistency, energy savings, and low maintenance costs
- 50,000 hours minimum life up to 35°C (95° F) in open plenum applications

Housing

- One-piece 22 gauge non-corrosive steel platform
- 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 and can be upgraded to accommodate technology improvements
- 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 P8064 uses the Philips Fortimo DLM Gen 4 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%

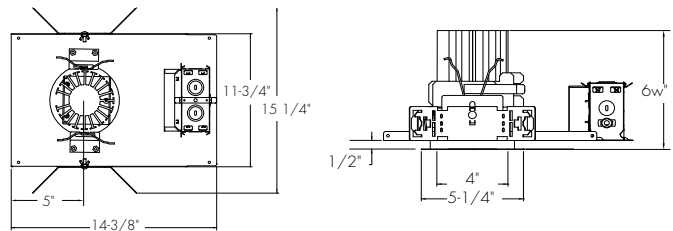
Labeling

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

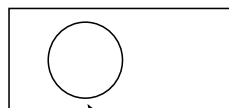
Images:



Ceiling Cutout: See Guide



Maximum Ceiling Thickness: 1-1/4"



- Notes:
 To order proper housing:
 1. Measure existing plaster frame aperture
 2. Use Compatibility Guide for selecting hsg

Dimensions shown are for the diameter of the frame flange at it's narrowest point.

CATALOG NUMBER: _____

SAMPLE: P8064-EBG4

Housing	Description	Voltage	Version
P8064- EB	4" LED New Construction	blank- 120V - 277V	G4- 4TH GENERATION

SAMPLE: P8067-21A/30KG4

Base	ReflectorFinish	Color Temp	Version
P8067 -1100 Lumens	21A - Clear Alzak	30K - 3000K	G4- 4TH GENERATION
P8206-2000 Lumens	22A - Gold ALzak	35K - 3500K	
	28 - White	40K - 4000K	

Performance:

P8067-21A/30KG4

P8206-21A/30KG4

Input Voltage	120/277V	120/277V
Input Frequency	50/60Hz	50/60Hz
Input Current	0.12A (120V) 0.05A (277V)	0.22 (120V) 0.10 (277V)
Input Power	14.3W	26.6W
Constant Current Output	200-1000mA	200-1000mA
Power Factor	≥0.90	≥0.90
THD	<20%	<20%
EMI Filtering	FCC 47CFR PART 15, CLASS A	FCC 47CFR PART 15, CLASS A
Operating Temperature	-20° C to 35° C	-20° C to 35° C
Dimming	0-10V	0-10V

Over-voltage, over-current, short-circuit protected

Power consumption and photometric output may vary with HDM or 2DM driver option

When operating in EM mode, the fixture will deliver approximately 30% of the published full lumen output.

Dimming Notes:

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 DALI net router
The Watt Stopper, Inc.	LS4 used with LCD-101 and LCD-103	

P8064 Series

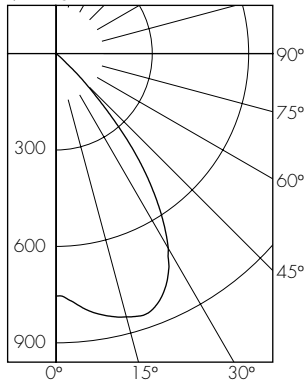
LED New Construction • Recessed

Photometrics:

P8067-21A/30KG4

P8064-EBG4 P8067-21A/30KG4

LED Light Engine: 3000K, 80 CRI
 System Wattage: 14.3W
 Fixture Delivered Lumens: 1131
 Fixture Efficacy: 78.9
 Spacing Criteria: 1.1



CANDELA DISTRIBUTION		
DEG	CANDELA	LUMENS
0	754	
5	785	76
15	848	240
25	805	366
35	536	328
45	130	108
55	8	10
65	2	2
75	1	1
85	0	0
90	0	

Test No. 8496 2673996-12
 Tested at 25°C Ambient in accordance to IESNA LM-79-2008

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	683	60.3
0-40	1010	89.3
0-60	1128	99.7
0-90	1131	100.0
90-180	0	0.0
0-180	1131	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average
45°	22669
55°	1720
65°	584
75°	476
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

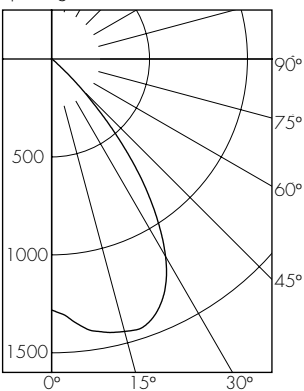
Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																
	80%			70%			50%			30%			10%				
	20% Effective Floor Cavity Reflectance																
	% Wall Reflectance																
	70	50	30	10	70	50	30	10	50	30	10	50	30	10			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80
4	95	87	81	77	94	86	81	76	84	79	75	82	78	75	80	77	74
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54
9	72	61	55	50	70	61	55	50	60	54	50	59	54	50	58	53	50
10	68	57	51	47	67	57	51	47	56	50	47	55	50	47	54	50	46

P8064-EBG4 P8067-21A/30KG4 Test No. 8496 2673996-12

P8206-21A/30KG4

P8064-EBG4 P8206-21A/30KG4

LED Light Engine: 3000K, 80 CRI
 System Wattage: 26.6W
 Fixture Delivered Lumens: 1895
 Fixture Efficacy: 71.4
 Spacing Criteria: 1.1



CANDELA DISTRIBUTION		
DEG	CANDELA	LUMENS
0	1281	
5	1348	131
15	1440	407
25	1345	611
35	884	540
45	221	185
55	15	17
65	3	3
75	0	0
85	0	0
90	0	

Test No. 8495 2673996-13
 Tested at 25°C Ambient in accordance to IESNA LM-79-2008

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1149	60.6
0-40	1690	89.2
0-60	1892	99.8
0-90	1895	100.0
90-180	0	0.0
0-180	1895	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average
45°	38537
55°	3225
65°	875
75°	0
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																
	80%			70%			50%			30%			10%				
	20% Effective Floor Cavity Reflectance																
	% Wall Reflectance																
	70	50	30	10	70	50	30	10	50	30	10	50	30	10			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	54	50	47

P8064-EBG4 P8206-21A/30KG9 Test No. 8495 2673996-13