

**DESCRIPTION**

Recessed 2.0" wide directional oval luminaire utilizing a LED array. Housing is suitable for 2x8 residential or commercial constructions, airtight and can be used in direct contact with insulation. Housing platform + primary reflector + optical element combination supports various distributions and reflector types providing design flexibility. Use where excellent light control and low aperture brightness are demanded.

<b>Catalog #</b>		<b>Type</b>
<b>Project</b>		
<b>Comments</b>		<b>Date</b>
<b>Prepared By</b>		

**SPECIFICATION FEATURES**

**Frame**

Galvanized steel plaster frame with integral bar hanger receivers. Setscrews provide positive horizontal locking. Integral gun sights facilitate the use of guide strings or laser lines. Shipped with overspray protector installed.

**Housing**

Steel housing painted matte black for visually dark interior. Removable access panels allow splice inspection and service of all electrical components including LED module and driver from below the ceiling thru the aperture. Removable hinged top allow top access. All fasteners are captive.

**Bar Hangers**

Captive preinstalled bar hangers adjust from 8-1/2" to 24" wide; pass thru feature allows shortening without removal. Captive nail penetrates standard and engineered lumber. Mounting flange levels platform with ceiling. Integral clip attached directly to tee-bar.

**Universal Mounting Bracket**

Accepts 1/2" EMT, C channel and bar hangers and adjusts 3" vertically from above the ceiling.

**Gaskets**

Closed cell gaskets achieve restrictive airflow requirements without additional caulking.

**Adjustment Mechanism**

Dynamic aiming rotates 365°, tilts 45° and locks in position. Angle markings assist in repeatable settings.

Translating center beam optics aligns axis of primary reflector with aperture from nadir to 45°.

**LED Module**

Field replaceable module utilizes Cree® MT-G2 LED array and conforms to Zhaga standards for interchangeability. Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation. Color accuracy within 2 SDCM and optional 90 CRI provides excellent color. Passive cooling achieves L70 at 40,000 hours.

**Primary Optic**

Borosilicate glass segmented optic with > 95% reflective multi-layer hard coating delivers a highly efficient and uniform beam. Various distributions are available and can be interchanged without tools. Elastomeric glare shield accepts theatrical color filters and diffusion films.

**Media**

Optional media holder accepts one or two 2 inch [50mm] diameter L series color filters or beam modifying lens. Order media holder, color filters and lens separately.

**Splay**

Die cast aluminum splay with 2" oval aperture. Can be installed flush mount with optional flush mount collar accessory.

**Trim Retention**

Retained with two torsion springs holding the flange tightly to the finished ceiling surface and accommodates ceiling thickness from

1/2" - 1" thick.

**Junction Box**

(6) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs.

**Driver**

Integral constant current driver provides noise free operation. Continuous, flicker-free 1% dimming, available with 2 or 3 wire phase cut, and EcoSystem/DALI digital control interfaces. The DALI option is Fifth Light compatible.

**Emergency Option**

Provides 90 minutes of standby lighting meeting most life safety codes for egress lighting. Remote charge indicator and test switch. The maximum battery pack ambient is 50°C.

**Compliance**

Type IC inherently protected, suitable for direct contact with insulation and cULus listed for damp locations. Restrictive airflow per ASTM-E283. EMI/RFI emissions per FCC 47CFR Part 18 consumer limits. Contains no mercury or lead and RoHS compliant. Photometric testing in accordance with IES LM-79-08. Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11. Energy Star listed. Zhaga compliant. Meets EMI/RFI emission per FCC 47CFR Part 18 consumer limits at 120V input. Lighting Facts Labeled.

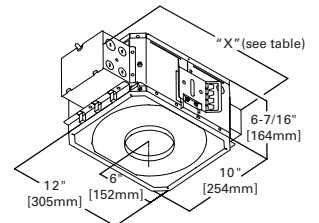
**Warranty**

5 year warranty.



**P3LED09 E3OVAL**

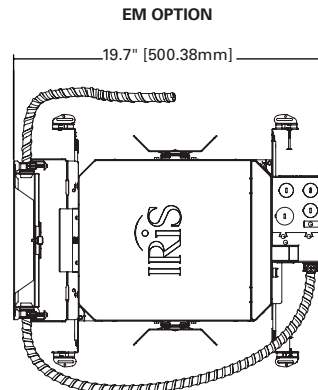
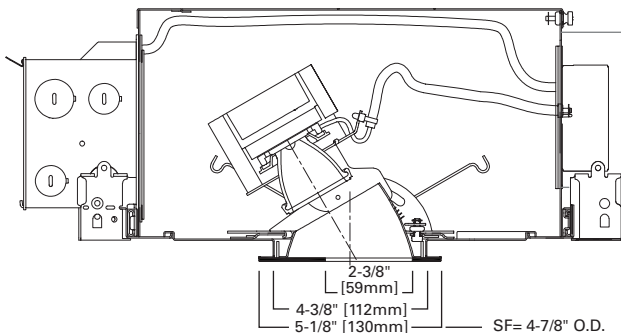
**LED Directional Oval  
2.0" Aperture  
900 Lumen Series**



Catalog #	X-Dimension
P3LED09*E	16.4" (416mm)
P3LED09*E010	16.25" (413mm)
P3LED09*E5LT	16.25" (413mm)
P3LED09*EDMX	16.25" (413mm)
P3LED09*1ELTE	16.9" (429mm)
P3LED09*EL3D	16.9" (429mm)

E Driver Option	
Input Voltage	120V 277V
Input Current (A)	0.12 0.06
Input Power (W)	14.3 15
Inrush Current (A)	0.17 0.43
THD: ≤ 20%	
PF: ≥ 0.90	
T Ambient: -20 to +40°C	
T Plenum: +65°C Max.	
Sound Rating: Class A	

E010 Driver Option	
Input Voltage	120V 277V
Input Current (A)	0.13 0.06
Input Power (W)	14.3 15
Inrush Current (A)	0.6 1
THD: ≤ 20%	
PF: ≥ 0.90	
T Ambient: -20 to +40°C	
T Plenum: +65°C Max.	
Sound Rating: Class A	



ORDERING INFORMATION

P3LED E3OVAL

Complete luminaire consists of a housing platform and optical element. Housing platform can be ordered without primary optic. Order primary optics separately.

Example: P3LED09830E RG50FL40 E3OVALH

Platform	Lumens <sup>1</sup>	Distribution	Color	Driver	Options
<b>P3LED</b>					
<p><b>P3LED</b> = 3.5" Aperture IC, AT LED Housing Platform</p> <p><b>P3LEDPCP</b> = 3.5" Aperture IC, AT LED Housing Platform, CCEA listed for City of Chicago Plenum Requirements</p>	<p><b>09</b> = 900 Lumens (Nominal)</p>	<p>[Blank] = Omit Primary Optic</p> <p><b>NSP10</b> = 10° Beam</p> <p><b>SP15</b> = 15° Beam</p> <p><b>NFL25</b> = 25° Beam</p> <p><b>FL40</b> = 40° Beam</p>	<p><b>827</b> = 80 CRI Minimum, 2,700 K CCT</p> <p><b>927</b> = 90 CRI Minimum, 2,700 K CCT</p> <p><b>830</b> = 80 CRI Minimum, 3,000 K CCT</p> <p><b>930</b> = 90 CRI Minimum, 3,000 K CCT</p> <p><b>835</b> = 80 CRI Minimum, 3,500 K CCT</p> <p><b>840</b> = 80 CRI Minimum, 4,000 K CCT</p>	<p><b>E</b> = 120 – 277V 50/60Hz Leading or Trailing Edge Phase Cut 1% Dimming (phase cut dimming at 120V only)</p> <p><b>E010</b> = 120 – 277V 50/60Hz 0 -10V 10% Dimming</p> <p><b>ED010</b> = 120 – 277V 50/60Hz 0 -10V 1% Dimming</p> <p><b>ESLT</b> = 120 – 277V 50/60Hz DALI 1% Dimming</p> <p><b>EDMX</b> = 120 – 277V 50/60Hz DMX 1% Dimming</p> <p><b>1ELTE</b> = 120V 60Hz Leading Edge 1% Dimming, Lutron A-Series</p> <p><b>EL3D</b> = 120 – 277V 50/60Hz 3-wire and EcoSystem 1% Dimming, Lutron A-Series</p>	<p><b>EM</b> = Integral Battery Backup with Remote Test Switch and Indicator Light (Not available with 1ELTE and EL3D driver options)</p>

Optical Element

Flange Style and Finish Options

Accessories

E3OVAL		
<p><b>E3OVAL</b> = 2" Oval Aperture Splay</p>	<p>[Blank] = Matte White Die-cast Flange</p> <p><b>POL</b> = Polished Aluminum Die-cast Flange</p> <p><b>RAW</b> = Raw Aluminum Die-cast Flange</p> <p><b>SAL</b> = Satin Aluminum Die-cast Flange</p>	<p><b>RG50NSP10</b> = 10° Beam Glass Reflector, 50mm</p> <p><b>RG50SP15</b> = 15° Beam Glass Reflector, 50mm</p> <p><b>RG50NFL25</b> = 25° Beam Glass Reflector, 50mm</p> <p><b>RG50FL40</b> = 40° Beam Glass Reflector, 50mm</p> <p><b>RG50MH</b> = Media Holder for two inch [50mm] diameter L series color filters or beam modifying lens. Attaches directly to RG50 series 50mm Reflectors</p> <p><b>FMC3</b> = Flush Mount Collar Accessory</p> <p><b>PLE3</b> = Plaster Lip Extender for Up to 2" Thick Ceilings</p> <p><b>ZLM03</b> = Replacement LED module, see specification sheet for catalog number and performance data</p>

ENERGY DATA

P3LED E3OVAL

1ELTE Driver Option	EL3D Driver Option	E5LT Driver Option	EDMX Driver Option																																																																																																												
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PHOTOMETRICS

P3LED E3OVAL

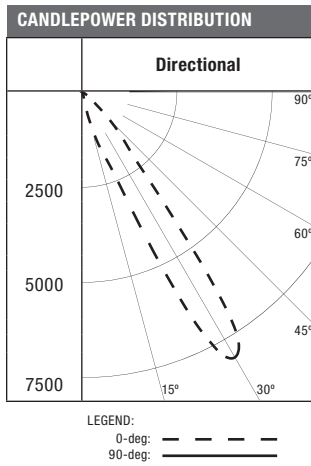
### CANDLEPOWER DISTRIBUTION

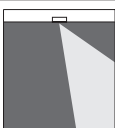
Test Number	P106758
Platform	P3LED09830E
Element	E3OVAL RG50SP15
Lumens	757 Lm
Efficacy	53.3 Lm/W

30° HORIZONTAL PLANE						30° VERTICAL PLANE					
	MH	FC	L	W	CB		D	FC	L	W	CB
5.5'		36.7	4.6	2.4	3.2	5.5'	147.6	2.1	1.6	9.5	
7'		22.7	5.9	3	4	7'	91.1	2.6	2	12.1	
8'		17.3	6.8	3.6	4.6	8'	69.8	3.1	2.4	13.9	
9'		13.7	7.7	4	5.2	9'	55.1	3.4	2.6	15.6	
10'		11.1	8.6	4.4	5.8	10'	44.7	3.8	3	17.3	
12'		7.7	10.2	5.4	6.9	12'	31	4.6	3.6	20.8	

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Fixture	
0-30	329	46.7	
0-40	611	86.8	
0-60	688	97.8	
0-90	704	100	
90-180	0	0	
0-180	704	100	

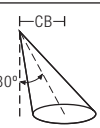
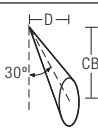
SINGLE UNIT FOOTCANDLES							
3' FROM WALL (Distance From Fixture Along Wall)							
DD	1'	2'	3'	4'	5'	6'	
1'	1.2	0.3	0	0.2	0.1	0	
2'	3	0.7	0.1	0	0.1	0	
3'	27.7	6.2	1.5	0	0	0	
4'	109.3	17.1	2.9	0.1	0	0	
5'	100.3	28.8	5.1	0.7	0.1	0	
6'	63.3	24.5	6.2	0.9	0.3	0.1	0
7'	32.8	14.3	5.4	0.7	0.3	0.1	0
8'	14.3	7.9	3.8	0.5	0.3	0.1	0
9'	6.6	4.4	2.5	0.4	0.2	0.1	0
10'	3.3	2.4	1.5	0.4	0.2	0.1	0



Test Number	P106878	
Platform	P3LED09830E	
Element	E3OVAL RG50NSP10	
Lumens	657 Lm	
Efficacy	46.3 Lm/W	

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Fixture
0-30	299	48.9
0-40	542	88.7
0-60	602	98.5
0-90	611	100
90-180	0	0
0-180	611	100

30° HORIZONTAL PLANE						30° VERTICAL PLANE					
	D	FC	L	W	CB		D	FC	L	W	CB
	5.5'	37	4	2.2	3.2		5.5'	162.7	1.4	1.4	9.5
	7'	22.8	5.1	2.8	4		7'	100.5	1.9	1.8	12.1
	8'	17.5	5.9	3.2	4.6		8'	76.9	2.1	2	13.9
	9'	13.8	6.6	3.6	5.2		9'	60.8	2.5	2.2	15.6
	10'	11.2	7.4	4	5.8		10'	49.2	2.8	2.4	17.3
	12'	7.8	8.9	4.8	6.9		12'	34.2	3.3	3	20.8

**SINGLE UNIT FOOTCANDLES**

**3' FROM WALL**  
(Distance From Fixture Along Wall)

DD	●	1'	2'	3'	4'	5'	6'
1'	0	0.1	0	0.1	0.1	0.1	0
2'	0.1	0.1	0.3	0.1	0	0	0
3'	31	2.2	0.3	0.1	0.1	0.1	0
4'	66.6	19.6	1.7	0	0.1	0.1	0.1
5'	111.4	24.5	5.7	0	0	0.1	0
6'	66.4	20.3	5.4	0.2	0	0	0
7'	24.4	11.7	4.5	0.1	0.1	0	0
8'	9.6	7.1	3.3	0.1	0	0	0
9'	5.5	4.5	2.4	0.1	0	0	0
10'	3.4	2.9	1.7	0.2	0	0	0

**LIGHTING FACTS**

**Lighting facts**  
A Program of the U.S. DOE

Light Output (Lumens) **559**  
Watts **14.2**  
Lumens per Watt (Efficacy) **39**

Color Accuracy  
Color Rendering Index (CRI) **90**

Light Color  
Correlated Color Temperature (CCT) **3000 (Bright White)**

Warm White | Bright White | Daylight  
2700K | 3000K | 4500K | 6500K

Registration Number: F4QJ-CV14DC (8/16/2013)  
Model Number: P3LED09P19830E E3OVAL (30° H)  
Type: Luminaire - Downlight

**Lighting facts**  
A Program of the U.S. DOE

Light Output (Lumens) **497**  
Watts **14.2**  
Lumens per Watt (Efficacy) **35**

Color Accuracy  
Color Rendering Index (CRI) **90**

Light Color  
Correlated Color Temperature (CCT) **2700 (Warm White)**

Warm White | Bright White | Daylight  
2700K | 3000K | 4500K | 6500K

Registration Number: F4QJ-T3THW5 (8/16/2013)  
Model Number: P3LED09P19830E E3OVAL (30° H)  
Type: Luminaire - Downlight

**Lighting facts**  
A Program of the U.S. DOE

Light Output (Lumens) **815**  
Watts **14.1**  
Lumens per Watt (Efficacy) **57**

Color Accuracy  
Color Rendering Index (CRI) **80**

Light Color  
Correlated Color Temperature (CCT) **4000 (Bright White)**

Warm White | Bright White | Daylight  
2700K | 3000K | 4500K | 6500K

Registration Number: F4QJ-G0PKAM (8/16/2013)  
Model Number: P3LED09P19830E E3OVAL (30° H)  
Type: Luminaire - Downlight

**Lighting facts**  
A Program of the U.S. DOE

Light Output (Lumens) **741**  
Watts **14.2**  
Lumens per Watt (Efficacy) **52**

Color Accuracy  
Color Rendering Index (CRI) **80**

Light Color  
Correlated Color Temperature (CCT) **3500 (Bright White)**

Warm White | Bright White | Daylight  
2700K | 3000K | 4500K | 6500K

Registration Number: F4QJ-A7EDDG (8/16/2013)  
Model Number: P3LED09P19830E E3OVAL (30° H)  
Type: Luminaire - Downlight

**Lighting facts**  
A Program of the U.S. DOE

Light Output (Lumens) **704**  
Watts **14.2**  
Lumens per Watt (Efficacy) **49**

Color Accuracy  
Color Rendering Index (CRI) **80**

Light Color  
Correlated Color Temperature (CCT) **3000 (Bright White)**

Warm White | Bright White | Daylight  
2700K | 3000K | 4500K | 6500K

Registration Number: F4QJ-Y486L2 (8/16/2013)  
Model Number: P3LED09P19830E E3OVAL (30° H)  
Type: Luminaire - Downlight

**Lighting facts**  
A Program of the U.S. DOE

Light Output (Lumens) **663**  
Watts **14.2**  
Lumens per Watt (Efficacy) **46**

Color Accuracy  
Color Rendering Index (CRI) **80**

Light Color  
Correlated Color Temperature (CCT) **2700 (Warm White)**

Warm White | Bright White | Daylight  
2700K | 3000K | 4500K | 6500K

Registration Number: F4QJ-NCHTZA (8/15/2013)  
Model Number: P3LED09P19830E E3OVAL (30° H)  
Type: Luminaire - Downlight

Please see LightingFacts.com for a complete listing of products.