

## DESCRIPTION

Recessed 3.5" aperture lens downlight luminaire utilizing a LED array. Housing is suitable for 2x8 residential or commercial constructions, airtight, can be used in direct contact with insulation and is wet location listed. 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.

## 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.

### Lower Reflector

Spun 0.04" thick aluminum parabolic contour with integral clear glass lens provides 60° lens and lens image cutoff. Available in a wide range of specular and semi-specular Alzak® finishes. Light trap eliminates spill light at edge of flange and reflector. Metal trim ring can be removed for painting and 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. Use optional plaster lip

Catalog #		Type
Project		
Comments		Date
Prepared By		

extender for ceilings up to 2" 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 wet 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. Meets California Title 24 residential fixture program and listed on appliance database. Energy Star listed. Zhaga compliant. Meets EMI/RFI emission per FCC 47CFR Part 18 consumer limits at 120V input. Lighting Facts Labeled.

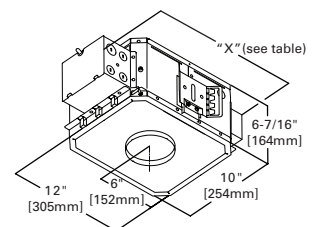
### Warranty

5 year warranty.



## P3LED09 E3SR

LED Lens Downlight  
3.5" Aperture  
900 Lumen Series



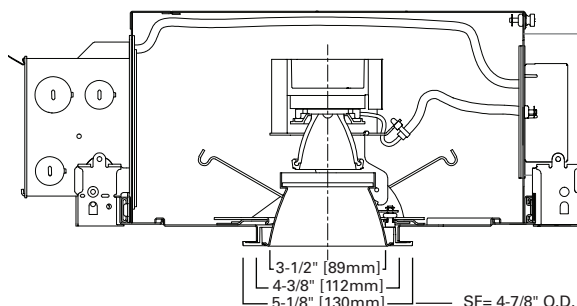
Catalog #	X-Dimension
P3LED09*E	16.4" (416mm)
P3LED09*E010	16.25" (413mm)
P3LED09*E5LT	16.25" (413mm)
P3LED09*EDMX	16.25" (413mm)
P3LED09*1ELTE	16.9" (429mm)
P3LED09*EL3D	16.9" (429mm)

### E Driver Option

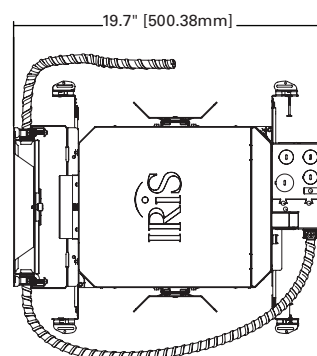
Input Voltage	120V	277V
Input Current (A)	0.12	0.06
Input Power (W)	14.3	15
Inrush Current (A)	0.17	0.43
THD: ≤ 20%		
PF: ≥ 0.90		
T Ambient: -20 to +40°C		
T Plenum: +65°C Max.		
Sound Rating: Class A		

### 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		



### EM OPTION



ORDERING INFORMATION

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 E3SRH

Platform	Lumens <sup>1</sup>	Distribution	Color	Driver	Options
<b>P3LED</b>					
<b>P3LED</b> = 3.5" Aperture IC, AT LED Housing Platform <b>P3LEDCP</b> = 3.5" Aperture IC, AT LED Housing Platform, CCEA listed for City of Chicago Plenum Requirements	<b>09</b> = 900 Lumens (Nominal)	<b>[Blank]</b> = Omit Primary Optic <b>NSP10</b> = 10° Beam <b>SP15</b> = 15° Beam <b>NFL25</b> = 25° Beam <b>FL40</b> = 40° Beam	<b>827</b> = 80 CRI Minimum, 2,700 K CCT <b>927</b> = 90 CRI Minimum, 2,700 K CCT <b>830</b> = 80 CRI Minimum, 3,000 K CCT <b>930</b> = 90 CRI Minimum, 3,000 K CCT <b>835</b> = 80 CRI Minimum, 3,500 K CCT <b>840</b> = 80 CRI Minimum, 4,000 K CCT	<b>E</b> = 120 – 277V 50/60Hz Leading or Trailing Edge Phase Cut 1% Dimming (phase cut dimming at 120V only) <b>E010</b> = 120 – 277V 50/60Hz 0 -10V 10% Dimming <b>ED010</b> = 120 – 277V 50/60Hz 0 -10V 1% Dimming <b>E5LT</b> = 120 – 277V 50/60Hz DALI 1% Dimming <b>EDMX</b> = 120 – 277V 50/60Hz DMX 1% Dimming <b>1ELTE</b> = 120V 60Hz Leading Edge 1% Dimming, Lutron A-Series <b>EL3D</b> = 120 – 277V 50/60Hz 3-wire and EcoSystem 1% Dimming, Lutron A-Series	<b>EM</b> = Integral Battery Backup with Remote Test Switch and Indicator Light (Not available with 1ELTE and EL3D driver options)
Optical Element	Finishes		Options	Accessories	
<b>E3SR</b>					
<b>E3SR</b> = 3.5" Aperture Lens Downlight Reflector	<b>Alzak® Finishes</b> <b>C</b> = Specular Clear <b>H</b> = Semi-Specular Clear <b>G</b> = Gold <b>WMH</b> = Warm Haze <b>WH</b> = Wheat <b>WHH</b> = Wheat Haze <b>GP</b> = Graphite <b>GPH</b> = Graphite Haze	<b>K</b> = Cognac <b>KH</b> = Cognac Haze <b>CC</b> = Chocolate <b>CCH</b> = Chocolate Haze <b>B</b> = Black  <b>Painted Finishes</b> <b>MW</b> = Matte white <b>W</b> = Gloss white	<b>[Blank]</b> = Metal Trim Ring, Matte White <b>SF</b> = Self-flanged <b>SFWF</b> = Self-flanged, Matte White Flange	<b>RG50NSP10</b> = 10° Beam Glass Reflector, 50mm <b>RG50SP15</b> = 15° Beam Glass Reflector, 50mm <b>RG50NFL25</b> = 25° Beam Glass Reflector, 50mm <b>RG50FL40</b> = 40° Beam Glass Reflector, 50mm <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 <b>FMC3</b> = Flush Mount Collar Accessory <b>PLE3</b> = Plaster Lip Extender for Up to 2" Thick Ceilings <b>ZLM03</b> = Replacement LED module, see specification sheet for catalog number and performance data	

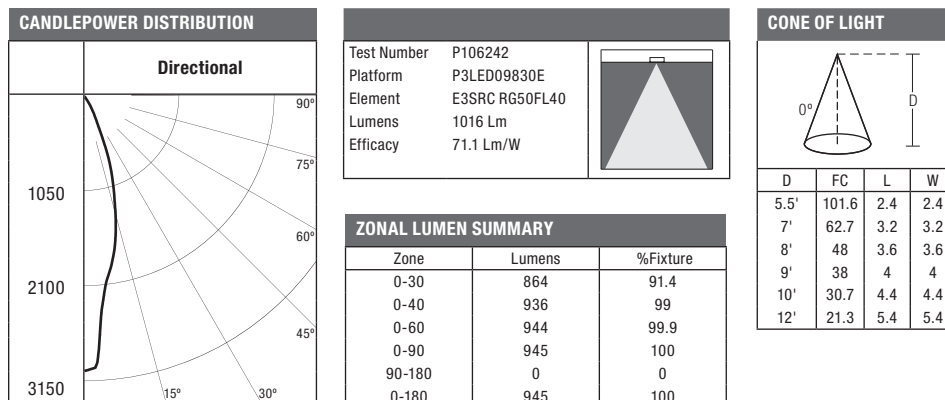
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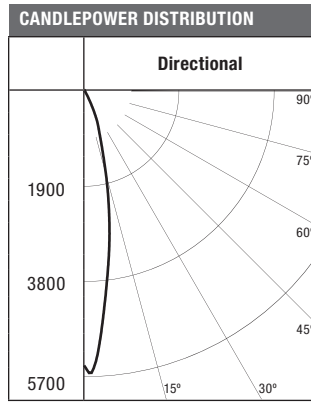
P3LED E3SR

1ELTE Driver Option	EL3D Driver Option	E5LT Driver Option	EDMX Driver Option
Input Voltage 120V 277V	Input Voltage 120V 277V	Input Voltage 120V 277V	Input Voltage 120V 277V
Input Current (A) 0.13	Input Current (A) 0.13 0.06	Input Current (A) 0.12 0.06	Input Current (A) 0.13 0.06
Input Power (W) 15.7	Input Power (W) 15.6 16	Input Power (W) 14.3 15.2	Input Power (W) 15.1 16.1
Inrush Current (A) 1.9	Inrush Current (A) 1.9 2	Inrush Current (A) 1.73 1.8	Inrush Current (A) 1.82 1.89
THD: ≤ 20%	THD ≤ 20%	THD: ≤ 20%	THD ≤ 20%
PF: ≥ 0.90	PF ≥ 0.90 ≥ 0.80	PF: ≥ 0.90	PF ≥ 0.90 ≥ 0.0
T Ambient: -20 to +40°C	T Ambient: -20 to +40°C	T Ambient: -20 to +40°C	T Ambient: -20 to +40°C
T Plenum: +65°C Max.	T Plenum: +65°C Max.	T Plenum: +65°C Max.	T Plenum: +65°C Max.
Sound Rating: Class A	Sound Rating: Class A	Sound Rating: Class A	Sound Rating: Class A

PHOTOMETRICS

P3LED E3SR





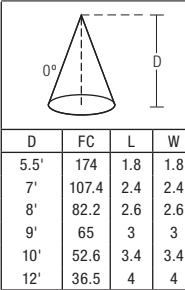
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Element E3SRC RG50NFL25  
Lumens 1054 Lm  
Efficacy 73.7 Lm/W



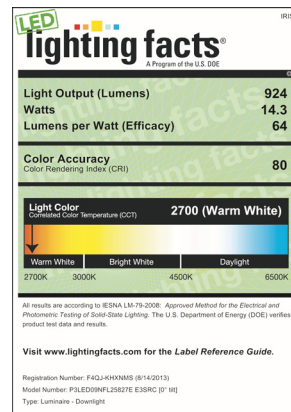
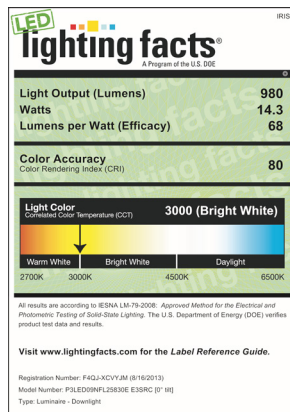
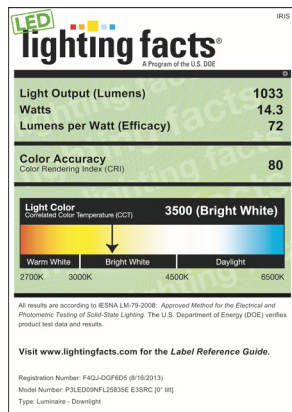
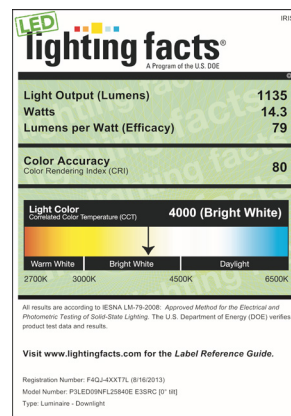
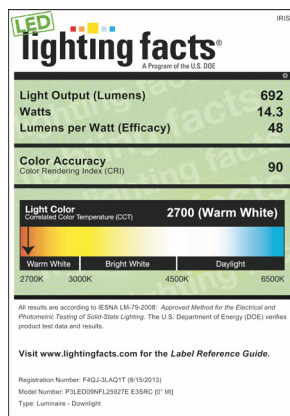
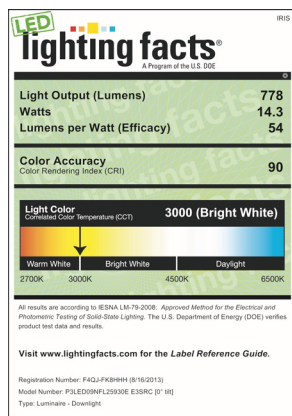
### ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30	957	97.7
0-40	972	99.2
0-60	979	99.9
0-90	980	100
90-180	0	0
0-180	980	100

### CONE OF LIGHT



### LIGHTING FACTS



Please see [LightingFacts.com](http://LightingFacts.com) for a complete listing of products.