Recessed 3.5" aperture lens downlight luminaire utilizing a LED array. Housing is air tight and suitable for 2x8 residential or commercial constructions. Insulation must be kept 3" from top and sides on housing. 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.

Catalog #	Туре
Project	
	D. L.
Comments	Date

### SPECIFICATION FEATURES

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 50,000 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 3.0mm thick 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 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

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.

#### Compliance

Type Non-IC inherently protected and cULus listed for wet locations. Insulation must be kept 3" from top and sides on housing. 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 I M-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.

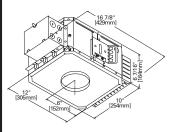
# Warranty

5 year warranty.



# PN3LED12 E3SR

**LED Lens Downlight** 3.5" Aperture 1,200 Lumen Series



E Driver Option				
Input Voltage	120V	277V		
Input Current (A)	0.16	0.08		
Input Power (W)	19.5	20		
Inrush Current (A)	0.24	0.5		
THD: ≤ 20%				
PF: ≥ 0.90				
T Ambient: -20 to +40°C				
T Plenum: +65°C Max.				
Sound Rating: Class A				
E010 Driver Option				

EU IU Driver Option					
Input Voltage	120V	277V			
Input Current (A)	0.17	0.08			
Input Power (W)	20	20.7			
Inrush Current (A) 0.7 1.21					
THD: ≤ 20%					
PF: ≥ 0.90					
T Ambient: -20 to +40°C					
T Plenum: +65°C Max.					
Sound Rating: Class A					







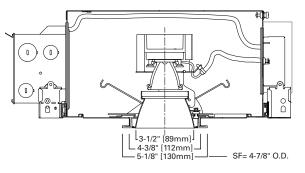
















Complete luminaire consists of a housing platform and optical element. Housing platform can be ordered without primary optic. Order primary optics separately.

# Example: PN3LED12830E RG50FL40 E3SRH

Platform	Lumens <sup>1</sup>	Distrib	ution		Color	D	river		
PN3LED									
PN3LED = 3.5" Aperture Non-IC, AT LED Housing Platform	12 = 1,200 Lumens (Nominal)	[Blank] = Omit I NSP10 = 10° Be SP15 = 15° Bea NFL25 = 25° Bei FL40 = 40° Bear	am n am	2,700 K CC	Il Minimum, F Il Minimum, F Il Minimum, T Il Minimum, Il Minimum,	-10V 10% Dim <b>E5LT</b> = 120 – DALI 1% Dim <b>EDMX</b> = 120 DMX 1% Dim	illing Edge Dimming 277V 50/60Hz 0 Iming 277V 50/60Hz Iming 277V 50/60Hz Iming 277V 50/60Hz Iming 60Hz Leading Iming, Lutron 277V 50/60Hz 277V 50/60Hz		
Optical Element		Fini	shes		Opt	ons		Accessories	
E3SR									
E3SR = 3.5" Aperture Le Downlight Reflector	C = Spec	cular Clear i-Specular Clear	K = Cognac KH = Cognac CC = Chocola	ate	[Blank] = Metal Matte White SF = Self-flang	0.	RG50SP15 = 15° RG50NFL25 = 25	O' Beam Glass Reflect Beam Glass Reflect O' Beam Glass Reflect	or, 50mm tor, 50mm

**PHOTOMETRICS** PN3LED E3SR

White Flange

SFWF = Self-flanged, Matte

1ELTE Driver Option				
Input Voltage	120V	277V		
Input Current (A)	0.17			
Input Power (W)	20.1			
Inrush Current (A) 1.9				
THD: ≤ 20%				
PF: ≥ 0.90				
T Ambient: -20 to +40°C				
T Plenum: +65°C Max.				
Sound Rating: Class A				

EL3D Driver Option				
Input Voltage	120V	277V		
Input Current (A)	0.16	0.08		
Input Power (W)	19.2	19.8		
Inrush Current (A)	1.9	2		
THD: ≤ 20%				
PF	≥0.90	≥0.85		
T Ambient: -20 to +4	0°C			
T Plenum: +65°C Max.				
Sound Rating: Class A				

CCH = Chocolate Haze

**Painted Finishes** 

MW = Matte white W = Gloss white

B = Black

WMH = Warm Haze WH = Wheat

WHH = Wheat Haze

**GP** = Graphite **GPH** = Graphite Haze

 $\mathbf{G} = \mathsf{Gold}$ 

E5LT Driver Option				
Input Voltage	120V	277V		
Input Current (A)	0.17	0.08		
Input Power (W)	19.5	20.2		
Inrush Current (A) 1.73 1.8				
THD: ≤ 20%				
PF	≥0.90	≥0.85		
T Ambient: -20 to +40°C				
T Plenum: +65°C Max.				
Sound Rating: Class A				

EDMX Driver Option					
Input Voltage	120V	277V			
Input Current (A)	0.17	0.08			
Input Power (W)	20	21.3			
Inrush Current (A) 1.82 1.89					
THD: ≤ 20%					
PF	≥0.90	≥0.70			
T Ambient: -20 to +40°C					
T Plenum: +65°C Max.					
Sound Rating: Class A					

RG50NFL25 = 25° Beam Glass Reflector, 50mm RG50FL40 = 40° Beam Glass Reflector, 50mm RG50MH = Media Holder for 50mm Reflector FMC3 = Flush Mount Collar Accessory

PLE3 = Plaster Lip Extender for Up to 2" Thick Ceilings

**ZLM03** = Replacement LED module, see specification sheet for catalog number and performance data

# LIGHTING FACTS

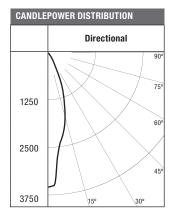


Please see LightingFacts.com for a complete listing of products.



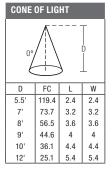


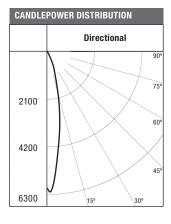
PHOTOMETRICS P3LED E3SR





ZONAL LUMEN SUMMARY					
Zone	Lumens	%Fixture			
0-30	1015	91.4			
0-40	1100	99			
0-60	1110	99.9			
0-90	1111	100			
90-180	0	0			
0-180	1111	100			







ZONAL LUMEN SUMMARY					
Zone	Lumens	%Fixture			
0-30	1125	97.7			
0-40	1142	99.2			
0-60	1151	99.9			
0-90	1152	100			
90-180	0	0			
0-180	1152	100			

