DESCRIPTION

Recessed 3.5" aperture downlight 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.

Catalog #	Туре
Project	
Comments	Date
Prepared By	

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 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 high purity aluminum parabolic contour provides 50° lamp and lamp image cutoff and is 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

[89mm]

- 4-3/8" [112mm] - 5-1/8" [130mm]

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

SF= 4-7/8" O.D.

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

Driver

Integral constant current driver provides noise free operation. Continuous, flicker-free 1% dimming, available with 2 or 3 wire phase cut, 0 -10V analog 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.

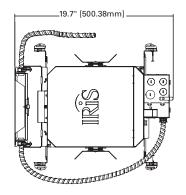
Compliance

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. Meets California Title 24 residential fixture program and listed on appliance database. Energy Star listed. Zhaga compliant. Meets FMI/RFI emission per FCC 47CFR Part 18 consumer limits at 120V input. Lighting Facts Labeled.

Warranty

5 year warranty.

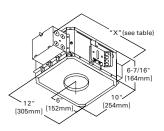
EM OPTION





P3LED09 E3MR

LED Downlight 3.5" Aperture 900 Lumen Series



Catalog #	X-Dimension
P3LED09*E	16.4" (416.6mm)
P3LED09*E010	16.25" (412.8mm)
P3LED09*E5LT	16.25" (412.8mm)
P3LED09*EDMX	16.25" (412.8mm)
P3LED09*1ELTE	16.9" (429.3mm)
P3LED09*EL3D	16.9" (429.3mm)

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	
1 .0 ./41			

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 E3MR

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

Example: P3LED830E RG50FL40 E3MRH

Platform	Lumens ¹	Distribution	Color	Driver	Options
P3LED					
P3LED = 3.5" Aperture IC, AT LED Housing Platform P3LEDCP = 3.5" Aperture IC, AT LED Housing Platform, CCEA listed for City of Chicago Plenum Requirements	09 = 900 Lumens (Nominal)	[Blank] = Omit Primary Optic NSP10 = 10° Beam SP15 = 15° Beam NFL25 = 25° Beam FL40 = 40° Beam	827 = 80 CRI Minimum, 2,700 K CCT 927 = 90 CRI Minimum, 2,700 K CCT 830 = 80 CRI Minimum, 3,000 K CCT 930 = 90 CRI Minimum, 3,000 K CCT 835 = 80 CRI Minimum, 3,500 K CCT 840 = 80 CRI Minimum, 4,000 K CCT	E = 120 – 277V 50/60Hz Leading or Trailing Edge Phase Cut 1% Dimming (phase cut dimming at 120V only) E010 = 120 – 277V 50/60Hz 0 -10V 10% Dimming ED010 = 120 – 277V 50/60Hz 0 -10V 1% Dimming E5LT = 120 – 277V 50/60Hz DALI 1% Dimming EDMX = 120 – 277V 50/60Hz DMX 1% Dimming 1ELTE = 120V 60Hz Leading Edge 1% Dimming, Lutron A-Series EL3D = 120 – 277V 50/60Hz 3-wire and EcoSystem 1% Dimming, Lutron A-Series	EM = Integral Battery Backup with Remote Test Switch and Indicator Light (Not available with 1ELTE and EL3D driver options)

Optical Element Finishes Options Accessories

E3MR Alzak® Finishes RG50NSP10 = 10° Beam Glass Reflector, 50mm RG50SP15 = 15° Beam Glass Reflector, 50mm **E3MR** = 3.5" Aperture Open Downlight Reflector Painted Finishes MW = Matte white [Blank] = MetalTrim Ring, C = Specular Clear Matte White H = Semi-Specular Clear W = Gloss white RG50NFL25 = 25° Beam Glass Reflector, 50mm **BB** = Black baffle

G = Gold WMH = Warm Haze WH = Wheat WHH = Wheat Haze GP = Graphite
GPH = Graphite Haze
K = Cognac KH = Cognac Haze CC = Chocolate CCH = Chocolate Haze

B = Black

WB = White baffle

Not available with BB or WB SF = Self-flanged SFWF = Self-flanged, Matte

White Flange

RG50FL40 = 40° Beam Glass Reflector, 50mm RG50MH = Media Holder for two inch [50mm] diameter L series color filters or beam modifying lens. Attaches directly to RG50 series 50mm Reflectors 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

ENERGY DATA P3LED E3MR

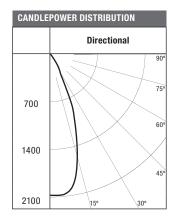
1ELTE Driver Option			
Input Voltage	120V	277V	
Input Current (A)	0.13		
Input Power (W)	15.7		
Inrush Current (A)	1.9		
THD: ≤ 20%			
PF: ≥ 0.90			
T Ambient: -20 to +40°C			
T Plenum: +65°C Max.			
Sound Rating: Class A			

EL3D Driver Option			
Input Voltage	120V	277V	
Input Current (A)	0.13	0.06	
Input Power (W)	15.6	16	
Inrush Current (A)	1.9	2	
THD	≤2	0%	
PF	≥0.90	≥0.80	
T Ambient: -20 to +40°C			
T Plenum: +65°C Max.			
Sound Rating: Class A			

ESLI Driver Option			
Input Voltage	120V	277V	
Input Current (A)	0.12	0.06	
Input Power (W)	14.3	15.2	
Inrush Current (A)	1.73	1.8	
THD: ≤ 20%			
PF: ≥ 0.90			
T Ambient: -20 to +40°C			
T Plenum: +65°C Max.			
Sound Rating: Class A			

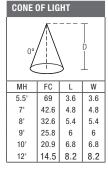
EDMX Driver Option			
Input Voltage	120V	277V	
Input Current (A)	0.13	0.06	
Input Power (W)	15.1	16.1	
Inrush Current (A)	1.82	1.89	
THD	≤2	0%	
PF	≥0.90	≥0.60	
T Ambient: -20 to +40°C			
T Plenum: +65°C Max.			
Sound Rating: Class A			

PHOTOMETRICS P3LED E3MR



Test Number	P106254	
Platform	P3LED09830E	
Element	E3MRC RG505P15	
Lumens	1010 Lm	
Efficacy	70.1 Lm/W	

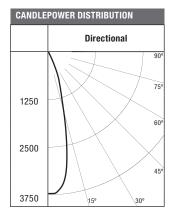
ZONAL LUMEN SUMMARY				
Zone	Lumens	%Fixture		
0-30	898	92.5		
0-40	964	99.8		
0-60	965	99.9		
0-90	966	100		
90-180	0	0		
0-180	966	100		







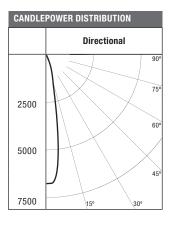
PHOTOMETRICS P3LED E3MR

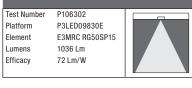




ZONAL LUMEN SUMMARY				
Zone	Lumens	%Fixture		
0-30	975	99.5		
0-40	979	99.9		
0-60	980	100		
0-90	980	100		
90-180	0	0		
0-180	980	100		

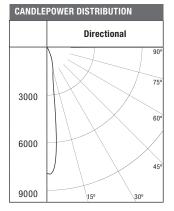
CONE OF LIGHT				
000				
D	FC	L	W	
5.5'	123.2	2.6	2.6	
7'	76	3.2	3.2	
8'	58.2	3.8	3.8	
9'	46	4.2	4.2	
10'	37.3	4.6	4.6	
12'	25.9	5.6	5.6	





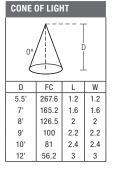
ZONAL LUMEN SUMMARY				
Zone	Lumens	%Fixture		
0-30	1117	98		
0-40	1124	98.6		
0-60	1131	99.2		
0-90	1140	100		
90-180	0	0		
0-180	1140	100		

000			
D	FC	L	W
5.5'	225.5	1.8	1.8
7'	139.2	2.4	2.4
8'	106.6	2.6	2.6
9'	84.2	3	3
	1	3.4	3.4
10'	68.2	3.4	3.4



Test Number	P106314	
Platform	P3LED09830E	
Element	E3MRC RG50NSP10	
Lumens	1054 Lm	
Efficacy	73.7 Lm/W	

ZONAL LUMEN SUMMARY				
Zone	Lumens	%Fixture		
0-30	1045	98.3		
0-40	1051	98.8		
0-60	1056	99.3		
0-90	1064	100.1		
90-180	-1	-0.1		
0-180	1063	100		







LIGHTING FACTS P3LED E3MR













 $\label{please} \mbox{Please see LightingFacts.com for a complete listing of products.}$

