DESCRIPTION

Recessed 3.5" aperture directional luminaire with slot cut shielding reflector 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.

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

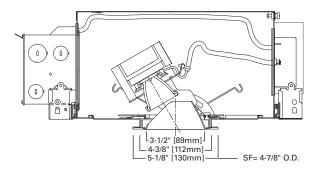
Optional media holder accepts one or two 2 inch [50mm] diameter L series color filters or beam modifying lens. Order media holder, color filters and lens separately.

Lower Reflector

Spun 0.04" thick aluminum angle cut parabolic contour provides 50° room side cutoff and is available in a wide range of specular and semispecular 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



Туре Catalog # Project Date Comments 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

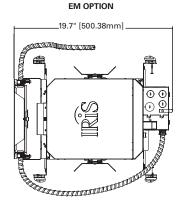
Provides 90 minutes of standby lighting meeting most life safety codes for egress lighting. Remote charge indicator and test switch. The maximum battery pack ambient is 50°C.

Compliance

Type IC inherently protected, suitable for direct contact with insulation and cULus listed for 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. Zhaga compliant. Meets EMI/RFI emission per FCC 47CFR Part 18 consumer limits at 120V input. Lighting Facts Labeled.

Warranty

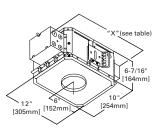
5 year warranty.





P3LED09 E3SLOT

LED Directional Slot Cut 3.5" Aperture 900 Lumen Series



Catalog #	X-Dimension
P3LED09*E	16.4″
P3LED09*E010	16.25"
P3LED09*E5LT	16.25"
P3LED09*EDMX	16.25″
P3LED09*1ELTE	16.9″
P3LED09*EL3D	16.9"

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 +4	D°C									
T Plenum: +65°C Ma										
Sound Rating: Class	Sound Rating: Class A									
E010 D	river Opt	ion								
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%										
1110. 2 20 /0										
PF: ≥ 0.90										
PF: ≥ 0.90 T Ambient: -20 to +4										
PF: ≥ 0.90	х.									



Cooper Lighting Solutions is a founding member of the Zhaga Consortium





P3LED E3SLOT

P3LED E3SLOT

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

Example: P3LED09830E RG50SP15 E3SLOTH

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 935 = 90 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	EM = Integral Battery Backup with Remote Test Switch and Indicator Light (Not available with 1ELTE and EL3D driver options)

EcoSystem 1% Dimming, Lutron A-Series

Optical Element	Finis	hes	Options	Accessories
E3SLOT				
E3SLOT = 3.5" Aperture Open 1.8" Slotted Reflector	$\label{eq:second} \left\{ \begin{array}{l} \textbf{Alzak}^{\oplus} \mbox{ Finishes } \\ \textbf{C} = \mbox{ Specular Clear } \\ \textbf{H} = \mbox{ Secular Clear } \\ \textbf{G} = \mbox{ Gold } \\ \textbf{WMH} = \mbox{ Warm Haze } \\ \textbf{WH} = \mbox{ Wheat } \\ \textbf{WHH} = \mbox{ Wheat } \\ \textbf{WHH} = \mbox{ Wheat } \\ \textbf{WHH} = \mbox{ Wheat } \\ \textbf{GPH} = \mbox{ Graphite } \\ \textbf{GPH} = \mbox{ Graphite } \\ \textbf{GPL} = \mbox{ Cognac } \\ \textbf{K} = \mbox{ Cognac } \\ \textbf{KH} = \mbox{ Cognac } \\ \textbf{CCH} = \mbox{ Chocolate } \\ \textbf{Haze } \\ \textbf{B} = \mbox{ Black } \\ \end{array} \right.$	Painted Finishes MW = Matte white W = Gloss white	[Blank] = Metal Trim Ring, Matte White SF = Self-flanged SFWF = Self-flanged, Matte White Flange	RG50NSP10 = 10° Beam Glass Reflector, 50mm RG50SP15 = 15° Beam Glass Reflector, 50mm RG50NFL25 = 25° Beam Glass Reflector, 50mm 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 FIMC3 = 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

1ELTE D	river Op	tion	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	Ś	20%	THD: ≤ 20%			THD	≤2	20%	
PF: ≥ 0.90			PF	≥0.90	≥0.80	PF: ≥ 0.90			PF	≥0.90	≥0.60	
T Ambient: -20 to +40	0°C		T Ambient: -20 to +40)°C		T Ambient: -20 to +4	T Ambient: -20 to +40°C			0°C		
T Plenum: +65°C Max.			T Plenum: +65°C Ma:	х.		T Plenum: +65°C Max.			5°C Max. T Plenum: +65°C Max.			
Sound Rating: Class	A		Sound Rating: Class	A		Sound Rating: Class	A		Sound Rating: Class A			

PHOTOMETRICS

POWER DISTRIBUTION	
Directional	
N.	90
	75
	60
	\langle
	45
15° 30°	
LEGEND: 0-deg: 90-deg: 180-deg:	
	Directional

Test Number	P106734	1	
Platform	P3LED09830E		
Element	E3SLOTC RG50FL40		
Lumens	973 Lm		
Efficacy	68 Lm/W		
		_	

ZONAL LUMEN SUMMARY											
Zone	Lumens	%Fixture									
0-30	464	51.3									
0-40	725	80.1									
0-60	903	99.8									
0-90	905	100									
90-180	0	0									
0-180	905	100									

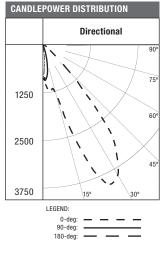
	30º H	ORIZO	NTAL I	PLANE	30	° VER	TICAL	PLANE	Ē			
٦		MH	FC	L	W	CB		D	FC	L	W	CB
	⊢св⊣ _	5.5'	21.6	6.2	4.2	3.2	HD-1 -	5.5'	56.8	3.3	3.4	9.5
		7'	13.3	7.9	5.2	4.0		7'	35.0	4.3	4.4	12.1
	30° 1	8'	10.2	9.1	6.0	4.6	30° - CB	8'	26.8	4.8	5.0	13.9
		9'	8.1	10.3	6.8	5.2	$ \langle V_{\ell} \rangle +$	9'	21.2	5.5	5.8	15.6
		10'	6.5	11.4	7.6	5.8		10'	17.2	6.1	6.4	17.3
		12'	4.5	13.7	9.2	6.9		12'	11.9	7.4	7.6	20.8

SING	SINGLE UNIT FOOTCANDLES													
	3' FROM WALL (Distance From Fixture Along Wall)													
DD		5'	6'											
1'	0.1	0	0	0	0	0	0							
2' 3'	12.2	6.8	0	0	0	0	0							
	48.7	20.9	6.3	0.1	0	0	0							
4'	48.9	35.9	9.7	2.8	0.3	0	0							
5'	33.3	27.3	13.3	3.3	1.3	0.2	0							
6'	22.2	18.6	10.9	3.7	1.4	0.5	0.1							
7'	14.2	13.1	8.1	4	1.6	0.6	0.2							
8'	9.1	9.6	5.9	3.6	1.8	0.7	0.2							
9'	6.2	6.4	4.3	2.9	1.7	0.8	0.3							
10'	4.4	4.2	3.4	2.3	1.5	0.8	0.4							

IRIS[®]

PHOTOMETRICS

P3LED E3SLOT

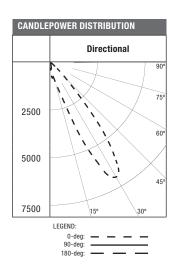


Test Number	P106650	Г
Platform	P3LED09830E	
Element	E3SLOTC RG50NFL25	
Lumens	999 Lm	
Efficacy	70.3 Lm/W	

30º H(DRIZO	NTAL I	PLANE			30	° VER	TICAL I	PLANE		
	МН	FC	L	W	CB		D	FC	L	W	CB
⊢св⊣	5.5'	27.8	7.1	3.8	3.2		5.5'	82.6	2.8	2.6	9.5
	7'	17.1	9	4.8	4		7'	51	3.6	3.2	12.1
30° 1	8'	13.1	10.3	5.6	4.6	30° - CB	8'	39	4	3.8	13.9
	9'	10.4	11.7	6.2	5.2	$ \langle \chi' \rangle^{\perp}$	9'	30.8	4.6	4.2	15.6
	10'	8.4	13	7	5.8		10'	25	5.1	4.8	17.3
	12'	5.8	15.6	8.4	6.9		12'	17.4	6.2	5.6	20.8

ZONAL LUMEN SUMMARY								
Zone	Lumens	%Fixture						
0-30	560	60.3						
0-40	854	92						
0-60	928	99.9						
0-90	929	100						
90-180	0	0						
0-180	929	100						

				3	LE UNIT FOOTCANDLES							
		M WAL		ong Wall))							
DD		1'	2'	3'	4'	5'	6'					
1'	0.1	0	0	0	0	0	0					
2'	0.3	0.4	0.1	0	0	0	0					
3'	25.3	7.2	0.1	0.1	0	0	0					
4'	71.1	31	6.6	0.1	0	0	0					
5'	56.6	37.2	11.8	1.3	0	0	0					
6'	39.8	28.8	12.1	3	0.6	0	0					
7'	25.8	19.9	9.8	3.3	1.2	0.2	0					
8'	15.5	13.4	7.3	2.9	1.3	0.4	0.1					
9'	9.2	8.7	5.4	2.4	1.3	0.5	0.1					
10'	5.5	5.4	4.1	1.9	1.1	0.5	0.2					



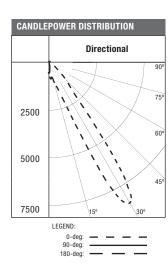
Test Number	P106746	
Platform	P3LED09830E	
Element	E3SLOTC RG50SP15	
Lumens	1072 Lm	
Efficacy	75.5 Lm/W	

ZON/

30° HORIZONTAL PLANE						30° VERTICAL PLANE					
	MH	FC	L	W	CB		D	FC	L	W	CB
⊢св⊣	5.5'	37.5	4.9	3	3.2		5.5'	153.4	2.1	1.8	9.5
	7'	23.1	6.3	3.8	4		7'	94.7	2.7	2.4	12.1
30° D	8'	17.7	7.2	4.4	4.6	30° - 1 CB	8'	72.5	3.1	2.8	13.9
	9'	14	8	4.8	5.2	$ V_{i} \rangle^{\perp}$	9'	57.3	3.6	3.2	15.6
	10'	11.3	8.8	5.4	5.8		10'	46.4	4	3.4	17.3
	12'	7.9	10.5	6.6	6.9		12'	32.2	4.8	4.2	20.8

SIN		SUMMARY	NAL LUMEN
	%Fixture	Lumens	Zone
	51.1	510	0-30
DD	89	887	0-40
1'	99.1	988	0-60
2'	100	997	0-90
3' 4'	0	0	90-180
5'	100	997	0-180
6'			

SING	SINGLE UNIT FOOTCANDLES								
		3' FROM WALL (Distance From Fixture Along Wall)							
DD		1'	2'	3'	4'	5'	6'		
1'	2.5	0.2	0.2	0	0	0	0		
2'	2.6	0	0.4	0	0	0.1	0		
3'	33.6	10.2	0.9	0	0	0	0		
4'	115.8	36.7	4.9	0.3	0	0	0		
5'	104.4	44.9	9.8	0.9	0.1	0	0		
6'	65.4	34.5	8.8	2.1	0.4	0.1	0		
7'	35	20.5	6.8	2.7	0.8	0.1	0		
8'	16.3	11.8	5	2.4	1	0.3	0		
9'	7.9	6.9	3.7	1.9	1	0.4	0.1		
10'	4.3	4.1	2.8	1.5	0.9	0.4	0.1		



Test Number	P106866	
Platform	P3LED09830E	
Element	E3SLOTC RG50NSP10	
Lumens	1050 Lm	
Efficacy	73.5 Lm/W	

ZONAL LUMEN SUMMARY									
Zone	Lumens	%Fixture							
0-30	505	51.7							
0-40	853	87.3							
0-60	967	99							
0-90	977	100							
90-180	0	0							
0-180	977	100							

30° H	30° HORIZONTAL PLANE						VER	TICAL F	LANE		
	MH	FC	L	W	CB		D	FC	L	W	CB
⊢св⊣	5.5'	40.9	4	2.2	3.2		5.5'	185.9	1.4	1.4	9.5
	7'	25.3	5.1	2.8	4		7'	114.8	1.9	1.8	12.1
30° 1	8'	19.3	5.8	3.2	4.6	30° - 4 / CB	8'	87.9	2.1	2	13.9
	9'	15.3	6.5	3.6	5.2	$ \langle V_{i} \rangle^{\perp}$	9'	69.4	2.4	2.2	15.6
	10'	12.4	7.1	4	5.8		10'	56.2	2.7	2.4	17.3
	12'	8.6	8.6	4.8	6.9		12'	39.1	3.3	3	20.8

SING	SINGLE UNIT FOOTCANDLES								
		3' FROM WALL (Distance From Fixture Along Wall)							
DD		1'	2'	3'	4'	5'	6'		
1'	0.5	0.2	0.5	0.2	0.1	0.1	0.1		
2'	0.2	0	0.1	0.1	0	0	0		
3'	42.9	16.4	0	0	0	0	0		
4'	87.9	30.4	9.6	0.1	0	0	0		
5'	127.1	29.5	11.2	2.2	0.1	0	0		
6'	72.5	21.8	9.9	3.2	0.9	0.1	0.1		
7'	23.5	13.4	7.4	3.3	1.2	0.4	0		
8'	9.4	9.2	5.4	2.8	1.3	0.4	0.1		
9'	5.4	6	4.2	2.3	1.2	0.5	0.1		
10'	3.4	3.8	3.3	1.8	1.1	0.6	0.2		



LED lighting facts [®]	RIS Lighting facts [®] Argund for U.S. SOE	lighting facts
Light Output (Lumens) 792	Light Output (Lumens) 704	Light Output (Lumens) 1155
Watts 14.2	Watts 14.2	Watts 14.2
Lumens per Watt (Efficacy) 56	Lumens per Watt (Efficacy) 49	Lumens per Watt (Efficacy) 81
Color Accuracy	Color Accuracy	Color Accuracy
Color Rendering Index (CRI) 90	Color Rendering Index (CRI) 90	Color Rendering Index (CRI) 80
Light Color 3000 (Bright White) Winn White Bright White Warm White Bright White 2000K 500K	Light Color Contrast Color Temperature (COT) 2700 (Warm White) Warm White Bright White Daylight 2700K S000K 4500K 6500K	Light Color Cultured Coor Temporature (CCT) 40000 (Bright White) Were White Bright White Dayloft 2700K 3000K 4000K 6500K
All results are according to IESNA LM-79-2008: Approved Method for the Electrical and	All results are according to ESNA LM-79-2008: Approved Method for the Electrical and	All results are according to IESNA LM-79-2008: Approved Method for the Electrical and
Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies	Photometric Testing of Solid-State Liptoing. The U.S. Department of Energy (DOE) verifies	Photometric Testing of Solid-State Lighting: The U.S. Department of Energy (DOE) verifies
product levit data and results.	product lest data and results.	product test data and results.
Visit www.lightingfacts.com for the Label Reference Guide.	Visit www.lightingfacts.com for the Label Reference Guide.	Visit www.lightingfacts.com for the Label Reference Guide.
Registration Number: F4QJ-GZE3KE (8/16/2013)	Registration Number: F4QJ-WTPHLD (8116/2013)	Registration Number: F4QJ-VHQDN5 (8/16/2013)
Model Number: P3LED0/65P19305E ESSLOTC [30' tit]	Model Number: P3LED095P 15927E E3SLOTC [30' 181]	Model Number: P3LED0959195440E E3SL07C (30° 81)
Type: Luminaire - Downlight	Type: Luminaire - Downlight	Type: Luminaire - Downlight
Light Output (Lumens) 1051 Watts 14.2 Lumens per Watt (Efficacy) 74	Light Output (Lumens) 997 Watts 14.2 Lumens per Watt (Efficacy) 70	International States St
Color Accuracy	Color Accuracy	Color Accuracy
Color Rendering Index (CRI) 80	Color Rendering Index (CRI) 80	Color Rendering Index (CRI) 80
Unit Color United Corr Immonder (CCT) Wern White Wern White Dight White Color Dight White Dight White Color	Light Color 3000 (Bright White) Ware White Bright White Daylight Ware White Bright White Daylight 2700X 5000K 6500K	Light Cator Settiated Core Temperature (DCT) Wern White Bight White Daylight 200K 3000K 4500K 5500K
All results are according to IESNA LM-79-2008: Approved Method for the Electrical and	All results are according to ESNA LM-79-2008: Approved Method for the Electrical and	All results are according to IESNA LM-79-2008: Approved Method for the Electrical and
Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies	Photometric Testing of Solid-State Lipting. The U.S. Department of Energy (DOE) verifies	Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies
product lest data and results.	product lest data and results.	product lest data and results.
Visit www.lightingfacts.com for the Label Reference Guide.	Visit www.lightingfacts.com for the Label Reference Guide.	Visit www.lightingfacts.com for the Label Reference Guide.
Registration Number: F4QJ-WWTAVF (8/16/2013)	Registration Number: F4QJ-SQX7WM (816/2013)	Registration Number: F4QJ-RNRQ3V (8/14/2013)
Model Number: P3/EDDISP15335E ESSLOTC [30" 51]	Model Number: F3LED095P15830E ESSLOTC [30' 91]	Model Number: P3LED09SP15827E E3SLOTC [30" tit]
Type: Luminaire - Downlight	Type: Luminaire - Downlight	Type: Luminaire - Downlight

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

