IRIS

Recessed 3.5" aperture directional luminaire with open slotted reflector utilizing an 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, providing design flexibility. Use where high efficiency excellent light control and low aperture brightness are demanded.

Catalog #	Туре
Project	
Comments	Date
Prepared By	

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 a visually dark interior. Removable hinged top allows 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

Philips Fortima SLM with Lumileds Luxeon S LED array is field replaceable 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 rendering 80 CRI standard, 90 CRI optimal, accuracy within 3 SDCM provides excellent color. Proportional active cooling achieves L70 at 50,000 hours in IC and non IC applications.

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 with slotted parabolic contour provides 50° room side 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

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 120 or 277V 60 Hz constant current driver provides noise free operation. Monitors LED array and reduces power if safe operating temperature of LED's is exceeded. Continuous, flicker-free dimming from 100% to 10%. Available with trailing edge phase cut, 0 -10V and DALI digital control interfaces.

Compliance

Type IC inherently protected, suitable for direct contact to insulation and cULus listed for damp locations. Restrictive airflow per ASTM E283. Optional City of Chicago environmental air (CCEA) marking for plenum applications. EMI/ RFI emissions per FCC 47CFR Part 18 consumer limits. Contains no mercury or lead and RoHS compliant. Photometric testing is in accordance with IES LM79. LED life claims are in accordance with IES LM80 testing. Can be used for State of California Title 24 high efficacy luminaire compliance, reference the California **Energy Commission Appliance** Efficiency Database for current listings. Can also be used for international Energy Conservation Code (IECC) high efficiency luminaire compliance. ENERGY STAR® listed, consult ENERGY STAR® website for applicable combinations. Zhaga compliant luminaire.

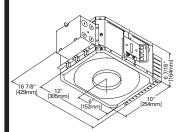
Warranty

5 year warranty.



P3LED E3SLOT

LED Directional Open Slot 3.5" Aperture 900 Lumen Series



Energy Data								
Lumens	900 S	eries						
Input Voltage (V)	120	277						
Input Current (A)	0.18	0.09						
Input Power (W)	20.4	22						
THD: ≤ 20%								
PF: ≥ 0.90								
T Ambient -20 t	T Ambient -20 to +40°C							
Sound Rating: A	4							

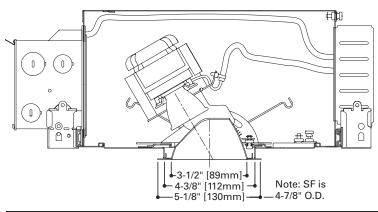














Complete luminaire consists of a housing platform and optical element. Housing platform can be ordered without primary optic. Order primary optics separately.

Example: P3LED9NFL258301E0-10V/TE = 3.5" aperture LED housing platform, 900 lumens nominal, 25° narrow flood 3,000°K, 85 CRI, 120V 60Hz, 0 – 10V and trailing edge 10% dimming E3SLOTH = 3.5" aperture open 1.8" slotted reflector, Semi-specular clear, matte white metal trim ring

Platform	Lumens	Distribution	Color	Driver	Optical Element	Finish	Flange Style	Accessories
P3LED					E3SLOT			
P3LED = 3.5" aperture LED housing platform P3LEDCP = 3.5" aperture LED housing platform, CCEA listed for City of Chicago plenum requirements	9 = 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 830 = 80 CRI Minimum, 3,000 K CCT 930 = 90 CRI Minimum, 3,000 K CCT 840 = 80 CRI Minimum, 4,000 K CCT	1E 0-10V/TE = 120V 60Hz 0 – 10V and trailing edge 10% dimming 2E 0-10V = 277V 60Hz 0 – 10V – 10% dimming 1E DALI = 120V 60Hz DALI – 10% dimming	E3SLOT= 3.5" aperture open 1.8" slotted reflector	Finishes Alzak® Finishes C = Specular Clear H = Semi-Specular Clear WMH = Warm Haze G = Gold WH = Wheat WHH = Wheat Haze GP = Graphite GPH = Graphite Haze K = Cognac KH = Cognac Haze CC = Chocolate CCH = Chocolate CCH = Chocolate B = Black Painted Finishes MW = Matte white W = Gloss white	Metal trim ring,	RG50NSP10 = 10° beam glass reflector, 50mm RG50NF15 = 15° beam glass reflector, 50mm 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 ZLE03 = LED light engine, Zhaga Book 3 compliant

PHOTOMETRICS P3LED E3SLOTTC

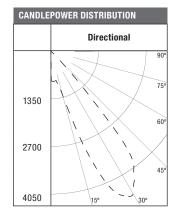
CANDLE	CANDLEPOWER DISTRIBUTION								
	Directional								
	90°								
050	75°								
850									
	60°								
1700									
	45°								
	/ 45"								
2550	15° \\ 30°								

Test Number	P21946	
Platform	P3LED	
Element	E3SLOTC RG50FL40	
Lumens	942	
Efficacy	49.1 Lm/W	

ZONAL LUMEN	SUMMARY	
Zone	Lumens	%Fixture
0-30	463	49.1
0-40	767	81.4
0-60	939	99.7
0-90	942	100.0
90-180	0	0.0
0-180	942	100.0

30°	30° HORIZONTAL PLANE						30° VERTICAL PLANE				
	D	FC	L	W	CB		D	FC	L	W	CB
<u></u> —СВ—	6'	59	4.2'	4'	3.5'	<u></u> -D-1 _	4'	44	3.6'	3.5'	6.9'
1 1/2	7'	44	4.9'	4.7'	4'		6'	19	5.4'	5.3'	10.4'
300	D 8'	33	5.6'	5.4'	4.6'	30° CB	8'	11	7.2'	7.1'	13.9'
	10'	21	7'	6.7'	5.8'		10'	7	9'	8.8'	17.3'
	12'	15	8.3'	8.1'	6.9'		12'	5	10.8'	10.6'	20.8'

SINGLE UNIT FOOTCANDLES												
	0	3¹ FROM WALL (Distance From Fixture Along Wall)										
DD		1'	2'	3'	4'	5'	6'					
1'	0	0	0.1	0	0	0	0					
2' 3'	2.1	0.3	0	0	0	0	0					
	67.8	28.7	0.2	0.1	0	0	0					
4'	63.3	50.8	5.6	0.1	0	0	0					
5'	43.5	35.8	17.8	0.2	0.1	0	0					
6'	27.7	24.2	15.5	1.2	0.1	0	0					
7'	18	17.4	11.7	2.9	0.1	0	0					
8'	12.3	12.8	8.6	3.4	0.1	0	0					
9'	8.7	8.8	6.2	2.9	0.3	0	0					
10'	6.1	5.9	4.8	2.3	0.5	0	0					



Test Number	P21945	
Platform	P3LED	
Element	E3SLOTC RG50NFL25	
Lumens	916	
Efficacy	47.7 Lm/W	
		l

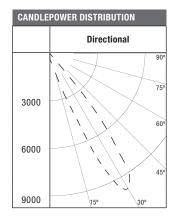
ZONAL LUMEN SUMMARY										
Zone	Lumens	%Fixture								
0-30	501	54.7								
0-40	823	89.9								
0-60	913	99.6								
0-90	916	100.0								
90-180	0	0.0								
0-180	916	100.0								

30° HORIZONTAL PLANE						30° VERTICAL PLANE					
	D	FC	L	W	CB		D	FC	L	W	CB
⊢СВ⊣ _	6'	89	3'	2.6'	3.5'	FD→ -	4'	52	3.6'	2.6'	6.9'
V	7'	65	3.5'	3.1'	4'		6'	23	5.4'	3.9'	10.4'
300	8'	50	3.9'	3.5'	4.6'	30° CB	8'	13	7.2'	5.3'	13.9'
	10'	32	4.9'	4.4'	5.8'	$ \cdot \cdot \langle v \rangle_{\top}$	10'	8	9'	6.6'	17.3'
	12'	22	5.9'	5.3'	6.9'		12'	6	10.8'	7.9'	20.8'

SING	SINGLE UNIT FOOTCANDLES										
	3¹ FROM WALL (Distance From Fixture Along Wall)										
DD		1'	2'	3'	4'	5'	6'				
1'	0	0	0.1	0	0	0	0				
2'	0.4	0.3	0	0	0	0	0				
3'	34.7	9.2	0.2	0.1	0	0	0				
4'	91.4	37.5	5.4	0.1	0	0	0				
5'	67.8	43.4	10	0.8	0.1	0	0				
6'	44.4	31.5	8.1	2.1	0.1	0	0				
7'	27.4	20.5	6.3	2.8	0.3	0	0				
8'	15.7	12.6	4.7	2.6	0.5	0	0				
9'	8.4	7.2	3.7	2.2	0.6	0	0				
10'	4.7	4	3.1	1.8	0.8	0.1	0				





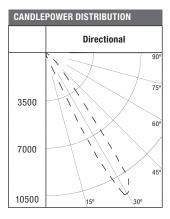




ZONAL LUMEN SUMMARY									
Zone	Lumens	%Fixture							
0-30	507	50.1							
0-40	916	90.5							
0-60	1009	99.7							
0-90	1012	100.0							
90-180	0	0.0							
0-180	1012	100.0							

30° HC	30° VERTICAL PLANE										
	D	FC	L	W	CB		D	FC	L	W	CB
⊢CB⊣	6'	171	2.2'	1.8'	3.5'	<u></u> ⊢D-1 _	4'	92	3.3'	1.9'	6.9'
$\perp V = \perp$	7'	126	2.6'	2.1'	4'		6'	41	5'	2.8'	10.4'
300	8'	96	2.9'	2.5'	4.6'	30° CB	8'	23	6.6'	3.7'	13.9'
	10'	62	3.7'	3.1'	5.8'	$ \cdot \cdot \langle \cdot \rangle_{\top}$	10'	15	8.3'	4.7'	17.3'
	12'	43	4.4'	3.7'	6.9'		12'	10	9.9'	5.6'	20.8'

SINGLE UNIT FOOTCANDLES											
	3' FROM WALL (Distance From Fixture Along Wall)										
DD		1'	2'	3'	4'	5'	6'				
1'	0	0	0	0	0	0	0				
2'	4	0.7	0	0	0	0	0				
3'	28.7	7.4	1.5	0	0	0	0				
4'	137.4	30.1	6.5	0.1	0	0	0				
5'	143.2	40.2	9.3	0.6	0.1	0	0				
6'	85.4	31.4	10	1.3	0.3	0	0				
7'	38.8	18.1	8	2.1	0.5	0.1	0				
8'	15.2	10.3	5.5	2	0.8	0.2	0				
9'	7.2	5.8	3.9	1.6	0.8	0.3	0.1				
10'	3.8	3.2	2.7	1.3	0.7	0.3	0.1				



Test Number	P21943	
Platform	P3LED	
Element	E3SLOTC RG50NSP10	
Lumens	985	
Efficacy	51.3 Lm/W	

ZONAL LUMEN	SUMMARY	
Zone	Lumens	%Fixture
0-30	504	51.1
0-40	883	89.6
0-60	982	99.7
0-90	985	100.0
90-180	0	0.0
0-180	985	100.0

30° HC	30° VERTICAL PLANE										
	D	FC	L	W	CB		D	FC	L	W	CB
<u></u> ⊢CB⊣ _	6'	206	1.6'	1.5'	3.5'	├-D	4'	108	2.7'	1.4'	6.9'
	7'	152	1.9'	1.7'	4'		6'	48	4'	2.1'	10.4'
30°	8'	116	2.2'	1.9'	4.6'	30° CB	8'	27	5.4'	2.8'	13.9'
	10'	74	2.7'	2.4'	5.8'	$ \langle \chi' \rangle_{\top}$	10'	17	6.7'	3.6'	17.3'
	12'	52	3.2'	2.9'	6.9'		12'	12	8'	4.3'	20.81

SINGLE UNIT FOOTCANDLES											
	3' FROM WALL (Distance From Fixture Along Wall)										
DD	● 1' 2' 3' 4' 5' 6'										
1'	0	0	0	0	0	0	0				
2' 3'	0.1	0.1	0	0	0	0	0				
	32.9	13.9	0.1	0	0	0	0				
4'	95.8	30.5	8.2	0	0	0	0				
5'	178.2	29	10.1	1.6	0	0	0				
6'	94.5	20.8	9.3	2.4	0.7	0	0				
7'	22.7	13	7.1	3	0.9	0.3	0				
8'	9.1	8.4	5.2	2.7	1.1	0.3	0.1				
9'	5.1	5.2	4	2.2	1.2	0.4	0.1				
10'	3.1	3.1	3	1.7	1	0.4	0.1				

