



The Slot LED family of luminaires offers an unparalleled package of performance and features for your next lighting project. Precision lumen DIRECTIR optics deliver optimized light where needed for ceilings and walls. With other key features such as simplified installation, seamless controls integration and superior color constancy, the Slot LED family from Mark Lighting offers exceptional quality and design flexibility.

Type:

Project:

Catalog Number:

DO NOT TYPE HERE. Autopopulated field.

Specification Features

Housing

Nominal 2.5" x 3.75" extruded aluminum housing

Finish

White, Black or Silver powdercoat

Reflector

Formed steel with high reflectance white

Distribution/Shielding

Extruded 90% transmissive acrylic lens with a textured surface providing diffuse illumination and a uniform appearance for direct lambertian distribution (No Optics). Wall Graze (WG) distribution options incorporate co-extruded lenses.

LED Components

Linear: Nichia®- 757 series LED chips (>80 CRI)

Electrical

Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000).

Color Consistency

The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. The color a variation of no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

Driver

Factory tuned constant current electronic dimming driver is standard. Flicker free dimming available down to <1%. LED drivers perform within the recommended operating areas for flicker as a function of frequency and modulation (%) IEEE Standard 1789 2015 (IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers), in typical operating conditions at representative dimming levels. Electrical specifications at maximum driver load: PF > 0.9 and THD <20%. Meets FCC Title 47 Class A or Class B. Other available drivers include Lutron, DMX and DALI protocol drivers.

Certification

CSA tested to UL 1598 standards, assembled in the USA. Damp location listed.

Listings

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Warranty

5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

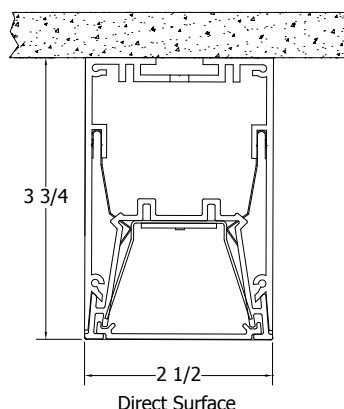
All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Fixture Performance

4FT INDIVIDUAL (35K)	DIRECT			
Lumens Output	400LMF	600LMF	800LMF	1000LMF
Delivered Lumens	1766	2710	3577	4225
Input Watts	14.4	22.5	30.6	37.1
Lumen/Watt	122	120	116	113

* Consult factory for customized lumen output and wattage between 350LMF and 1050LMF

Technical Drawing



eldoLED
your product | our drive

Declare.



A+ Capable options indicated
by this color background.

Ordering

Example: S2LSP 30FT 190X 90CRI 40K 1000LMF DARK EGLD 120 WHT ZT

Series		Plan		Total Run Length		Configuration ²		Direct Light Source Color Rendering		Direct LED Color Temp		Direct LED Light Output		Direct Distribution (Optics)			
S2LSP	Slot 2 Surface Patterns	SPP	Square Pattern Plan	_FT ¹ Specify continuous run length (in whole feet 2' minimum)	_90C	# corners	80CRI	80 CRI	27K	2700K	400LMF	400 Lumens per FT	(blank)	Standard Lambertian Distribution			
		RPP	Rectangular Pattern Plan		_90T	# T - intersections	90CRI	90 CRI	30K	3000K	600LMF	600 Lumens per FT					
		OPP	Open Pattern Plan		_90X	# X - intersections			35K	3500K	800LMF	800 Lumens per FT					
		CPP	Closed Pattern Plan						40K	4000K	1000LMF	1000 Lumens per FT					
									50K	5000K	_LMF ³	## Lumens per FT (Limited to 350LMF to 1050LMF in 50LMF increments)		WG ⁴	Wall Graze Distribution		
Minimum Dimming Level		Optional Shielding ^{6,7}		Voltage		Finish						Emergency Options					
NODIM ⁵	Non - dimming	(blank)	Standard Shielding only	MVOLT	Multi-volt, 120-277	WHT	White (gloss)					E10WLCP ⁸	4ft emergency section w/ battery pack 1250 lumens				
MIN1	Constant current, dimming to 1%	EGLD	Edge View Direct Lens	120	120V	BLK	Black (gloss)					_E10WLCP ^{8,9}	# 4ft emergency sections w/ battery pack 1250 lumens				
DARK	Constant current, dimming to 0.1%			277	277V	SLV	Silver (gloss)					_EC ¹⁰	# of Emergency Circuits				
						WHHT	White (textured)					BGTD ^{10,11}	Generator Transfer Device				
						BLKT	Black (textured)										
						SLVT	Silver (textured)										
						RALTB	RAL paint finishes. See RAL Brochure for available options and ordering information										
Control Input		Sensor ⁴		Secondary Sensor		Tertiary Sensor						Options					
(blank)	Non-dimming, line voltage	(blank)	select if single zone/no zone without sensor	(blank)	No additional zones/sensors	(blank)	No additional zones	DPL	Damp Location Listing								
ZT	0-10V Control	NS	select if multi-zone fixture with no sensor in main zone	SNS	select if multi-zone fixture with no sensor in tertiary zone	TNS	select if multi-zone fixture with no sensor in tertiary zone	GLR	fast-blow fuse								
NLIGHT ¹²	nLight enabled	PDT_ ¹⁷	Occupancy Sensor- Dual Technology (Passive Infrared & Microphonics)	SPDT_ ¹⁷	Occupancy Sensor-Dual Technology (Passive Infrared & Microphonics)			GMF	slow-blow fuse								
NLTAIR ¹³	nLight AIR (wireless) enabled	ADC_ ¹⁷	Photocell- Daylight Dimming Sensor	SADC_ ¹⁷	Photocell- Daylight Dimming Sensor			WL	Wet Location Listing								
DALI ¹⁴	DALI compatible	API_ ¹⁸	PIR Occupancy Sensor & Photocell	SAPI_ ¹⁸	PIR Occupancy Sensor & Photocell												
ECOD ¹⁵	Lutron Hi-Lume Digital driver	APD_ ¹⁸	PDT Occupancy Sensor & Photocell	SAPD_ ¹⁸	PDT Occupancy Sensor & Photocell												
ECOD2 ^{15,16}	Lutron Hi-Lume 2-wire (1% Dimming)																
ECOD5 ¹⁵	Lutron 5-series digital driver (5% Dimming)																
For additional ordering assistance consult 'Intelligent Luminaire Technology Guide'.																	
Not available with NLTAIR2																	

For additional ordering assistance consult
'Intelligent Luminaire Technology Guide'.

Not available with NLTAIR2

Notes:

1. Fixture length may effect available options, consult factory with validation issues.
2. Configurations do not contain emergency options, those options are controlled from the straight fixture.
3. Not available with ECOD, ECOD2, ECOD5 options.
4. Not available with EGLD options.
5. Not available with Control inputs.
6. Not available with NLTAIR2.
7. Not available with sensor options.
8. Not available on 2ft or 3ft fixtures.
9. One E10WLCP pack per fixture section.
10. Powers entire direct fixture section (power direct and indirect fixture sections on 2ft fixtures). Not available with ZT/NLTAIR2 sensors in the same fixture.
11. Must select 120V or 277V, Remote mounted.
12. NLIGHT option on 2FT fixture will require remote mounted NIO.
13. Must select MIN1 or DARK Dim Level. Not available with 347, WW, 2' or 3' units. Not available with WL. If ordered with E10WLCP, only available in 7' & 8' units. One NLTAIR2 device per zone or sensor, for multiple zones consult factory. For antenna location, see page 9.
14. Must select DARK option.
15. Must select MIN1 option, not available on 2ft or 3ft fixtures.
16. Only available with 120 option.
17. Not available on 2FT or 3FT fixtures, must select ZT or NLIGHT options.
18. Not available on 2dt or 3dt fixtures, requires ZT, NLIGHT or NLTAIR2 control input.

A+ Capable Luminaire

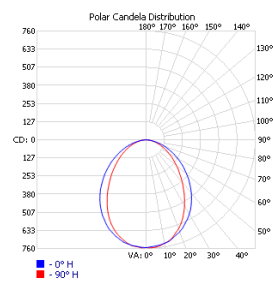
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background***
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a **shaded background***

To learn more about A+, [visit www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

*See ordering tree for details

PHOTOMETRICS



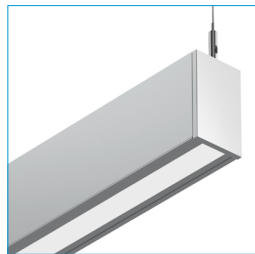
Test Report: ISF 37224P0
IES LM 79-08
S2LD 4FT 80CRI 30K 400LMF
Lumens: 1697
Wattage: 14.44
Efficacy: 117.5

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	559.6	33%
0-40	879	51.80%
0-60	1415.1	83.40%
60-90	281.4	16.60%
70-100	115.5	6.80%
90-120	0.3	0%
0-90	1696.6	100%
90-180	0.4	0%
0-180	1697	100%

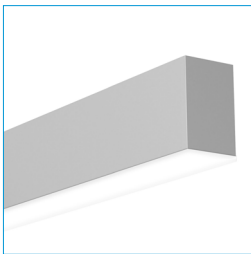
Angle	Candlepower Distribution							
	Plane							
	0	22.5	45	67.5	90	112.5	135	157.5
0	753	753	753	753	753	753	753	753
5	745	748	749	749	753	749	751	747
10	734	739	737	735	735	736	740	738
15	712	714	710	705	708	706	711	718
20	684	685	676	662	662	663	677	689
25	643	642	627	606	603	610	630	653
30	601	596	574	544	535	545	575	609
35	548	539	510	475	462	474	512	557
40	490	479	443	408	393	406	447	500
45	428	416	379	339	328	344	384	438
50	366	354	314	282	271	284	322	378
55	308	295	257	231	223	233	263	314
60	248	236	205	183	177	187	212	256
65	193	184	161	142	137	143	163	201
70	143	133	117	105	102	107	122	151
75	96	89	78	72	69	73	84	101
80	53	51	46	41	41	44	49	55
85	20	19	19	19	19	20	22	24
90	0	0	1	1	1	2	2	2

EXPECTED LIFE: L83 @ 60,000
CALCULATED LIFE: L70 @ 110,000

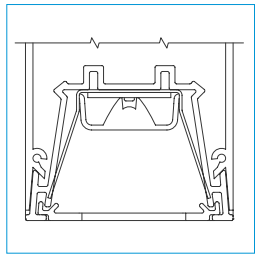
Shielding



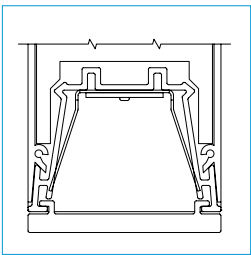
Co-Extruded WG



Edge View Lens



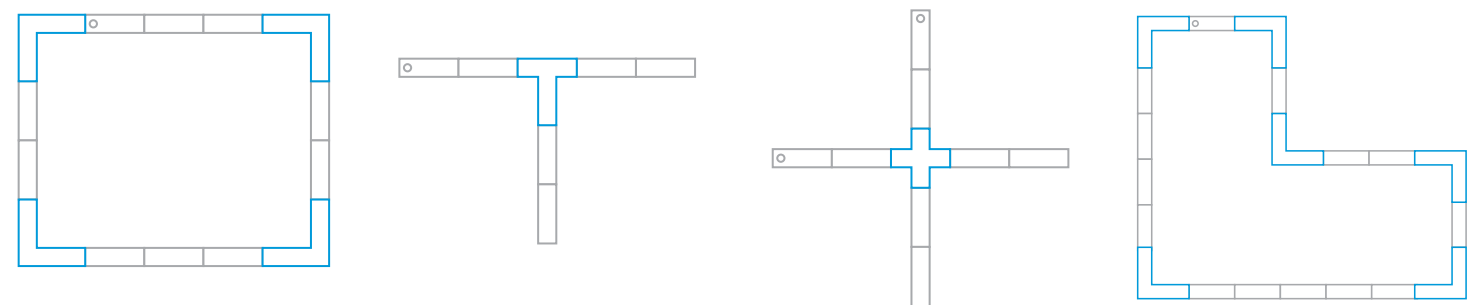
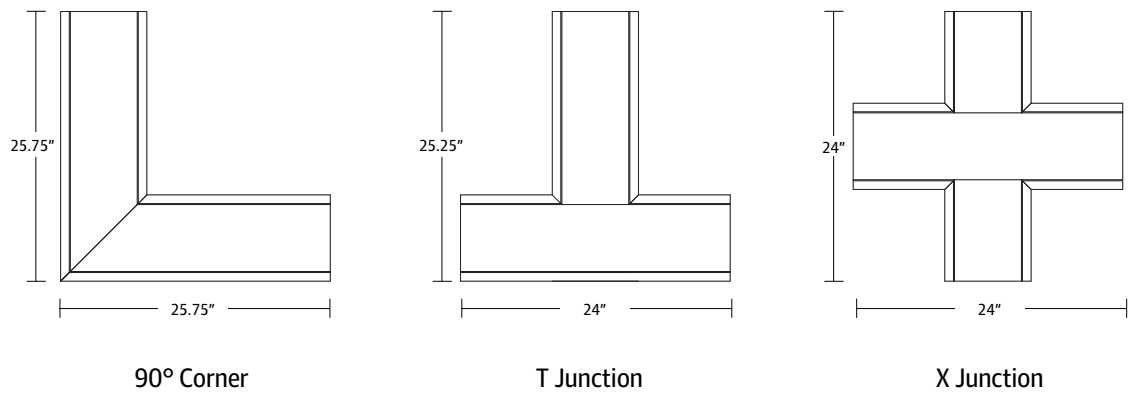
Co-Extruded WG
(Standard)



Edge View Lens
(Optional)

Pattern Plan

Slot 2 LED patterns be configured in 1' increments with illuminated 90° inside and outside corners, T junctions, and X junctions with standard 2' corner and junction lengths. For custom angles, corner or junction lengths, consult factory.

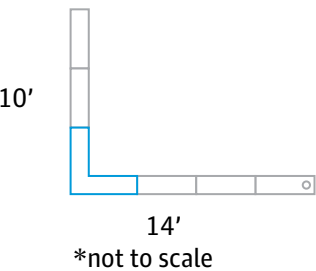


- Tips
- 4 corners per SPP and RPP plans
 - Maximum of 6 corners per OPP and CPP plans

Total Run Length = all sides of the pattern

Submittals are required for patterns, please use the grid on the next page for your payout with all relevant dimensions and types of intersections.

EXAMPLE:



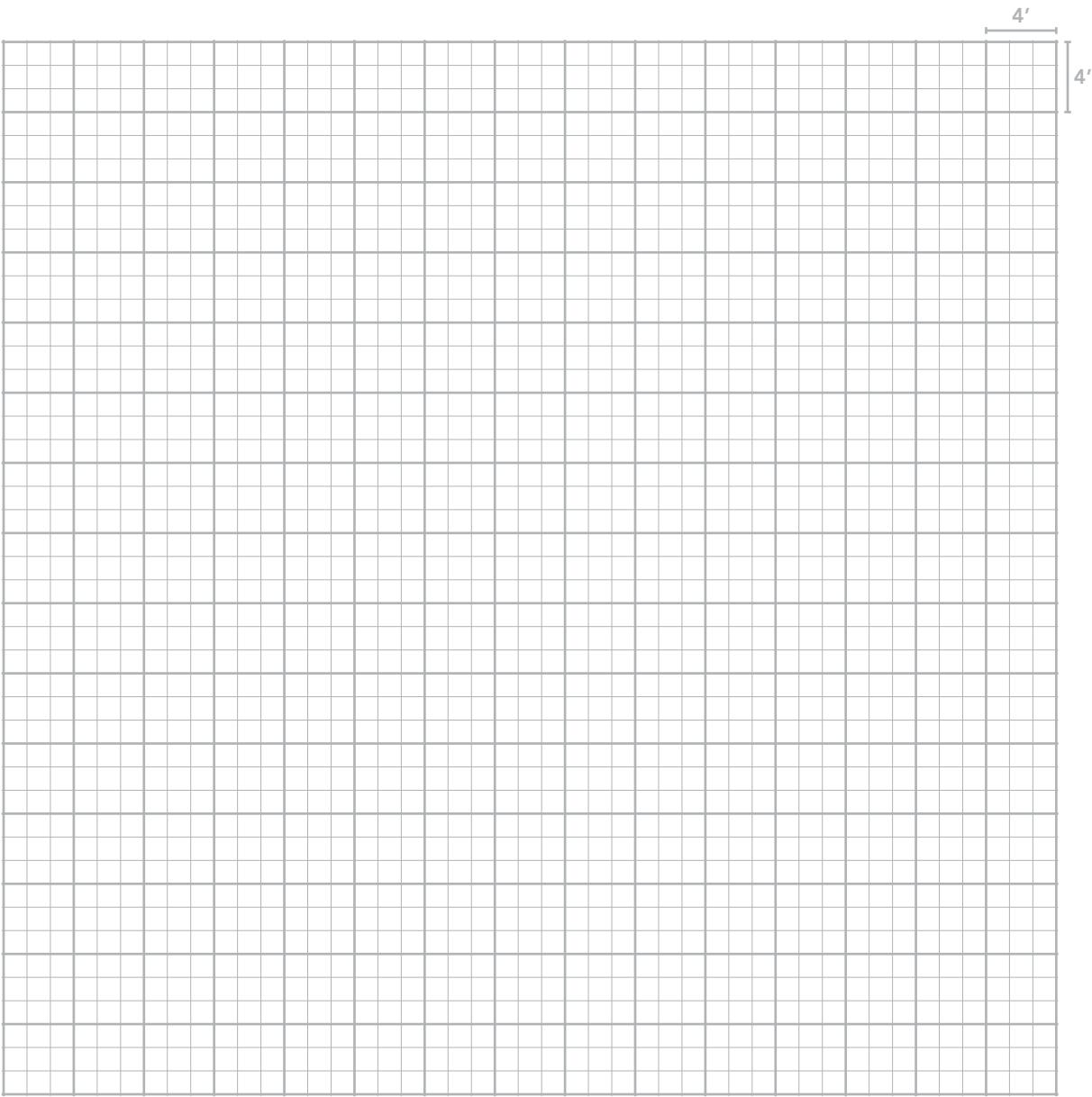
Total run length = 24'

190C = 1 90° corner

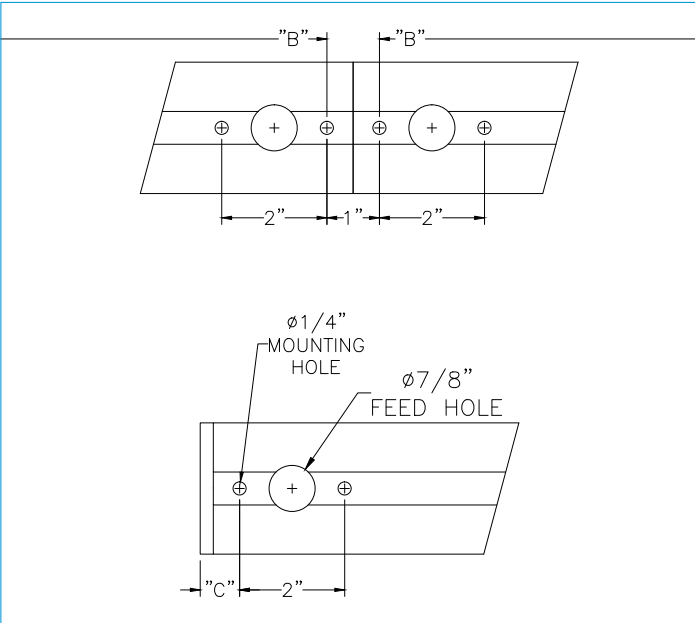
S2LDP OPP 24FT 190C 80CRI 30K 600LMF MIN1 EGLD 120 WHT ZT F1/72A RDCY WHTCY CCRD MCS

Layout Sketch

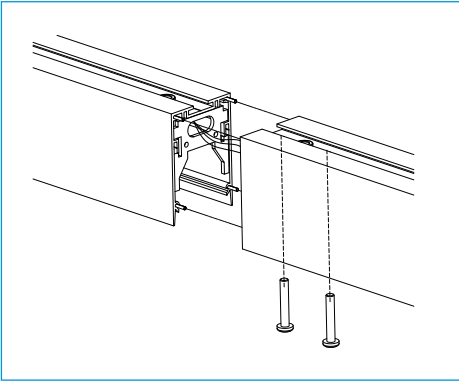
Please draw and configure your pattern plan below.



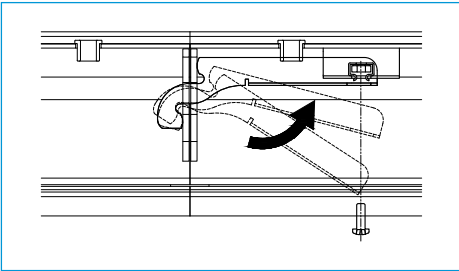
Mounting



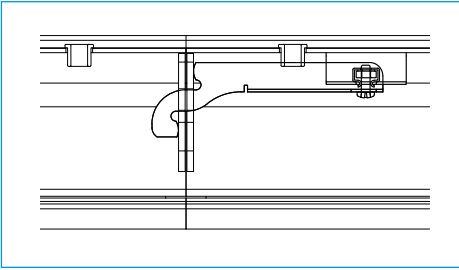
Joiners
AEL Precision Row-Mount 3-step fixture-to-fixture connection method



Step 1: Align



Step 2: Engage



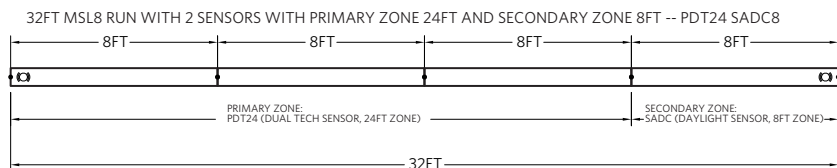
Step 3: Lock

Continuous Runs

Slot 2 LED features the AEL precision joiner to create a hairline seam between luminaires, providing a monolithic visual aesthetic. For custom run lengths less than a 1' increment, consult factory.

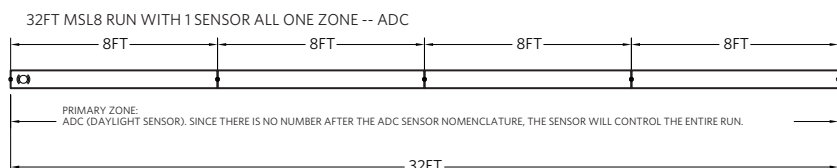
INTEGRATED SENSOR LAYOUT

CORRECT:



Notes:

- Only one sensor per zone
- At the most, the entire run can only have 2 sensors (thus 2 sensors zones at the most)
- Sensor zone can not split fixture sections
- No overlapping zones



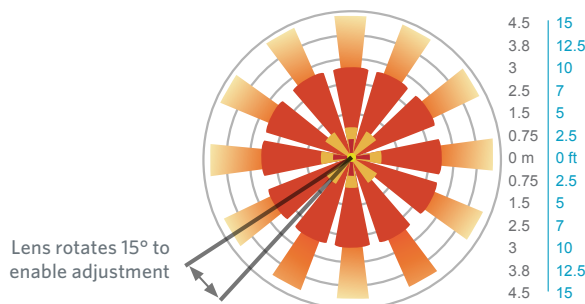
OCCUPANCY DETECTION COVERAGE

At the 7.5 ft (2.9 m) hanging height of a typical pendant mount fixture the sensor provides 10 ft (3.05 m) radial detection of small motion. At a 9 ft (2.74 m) hanging height the radius is 12 ft (3.66 m) for small motion.

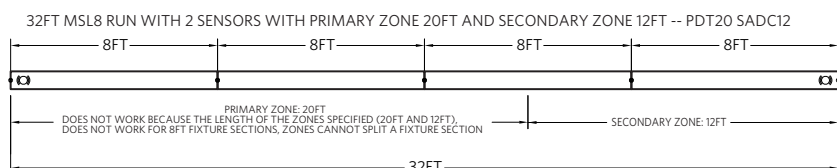
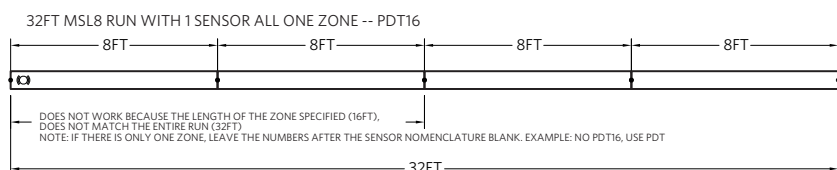
Adequate for walking motion detection from mounting heights between 7.5 ft (2.29 m) and 20 ft (6.10 m).

Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.

Initial detection of walking motion into long coverage segment will occur at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m). Lens assembly rotates 15° to enable adjustment in order to line up long segments.

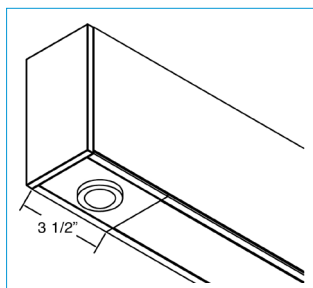


INCORRECT:



Integrated Controls

Optional nLight® integrated controls make Slot LED luminaires addressable- allowing them to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices using standard CAT5 Cabling.



Occupancy Sensor and/or Photocell

Sensors are only located on the straight sections.

Intelligent Luminaire Technology Guide

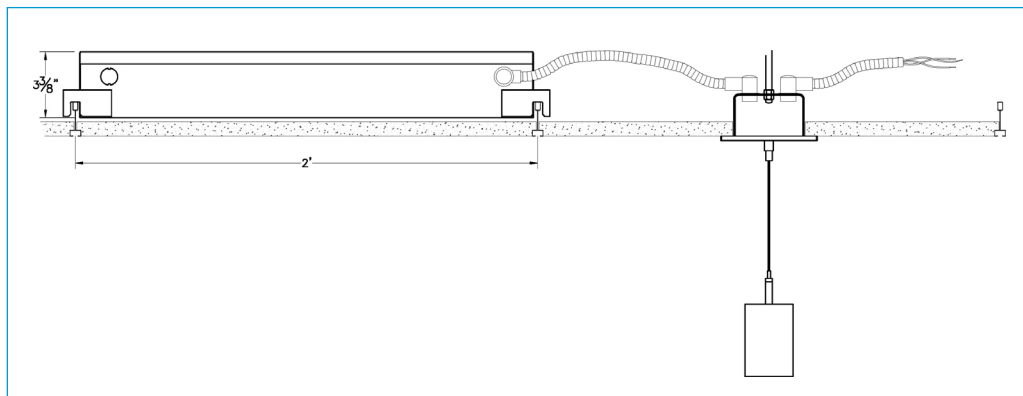
Choose nomenclature from these columns							
Driver Configurations	Minimum Dimming Level		Control Input		Driver	Dimming Range	Notes
	NODIM	+	(blank)	=	0 10V Generic Driver	-	Includes no 0 10V leads from the driver.
	MIN10	+	ZT	=	0 10V Generic Driver	100 to 10%	Linear dimming
	MIN1	+	ZT	=	0 10V eldoLED ECOdrive	100 to 1%	Formerly (EZ1) nomenclature. Linear dimming
	MIN1	+	NLIGHT	=	0 10V eldoLED ECOdrive	100 to 1%	Logarithmic dimming
	MIN1	+	ECOD2	=	Lutron forward phase control	100 to 1%	LUTRON Hi-lume 1% 2-wire (model LTEA4U1U)
	MIN1	+	ECOD5	=	Lutron Ecosystem	100 to 5%	LUTRON 5 Seires EcoSystem LED Driver (model LDE5)
	MIN1		ECOD		Lutron Ecosystem	100 to 1%	LUTRON Hi-lume 1% EcoSystem LED Driver with Soft-on, Fade-to-Black (model LDE1)
	DARK		ZT		0 10V eldoLED SOLOdrive	100 to 0.1%	Formerly (EZB) nomenclature. Linear dimming
	DARK		NLIGHT		0 10V eldoLED SOLOdrive	100 to 0.1%	Logarithmic dimming
	DARK		DALI		DALI compatible eldoLED SOLOdrive	100 to 0.1%	"Compatible with DALI. Formerly (EDB & EDAB) nomenclature." Logarithmic dimming

Choose nomenclature from these columns						
Control / Sensor Configurations	Control Input		Sensor		Sensor	Notes
	ZT	+	API	=	MSD 7 ADCX	Individual fixture control only. PIR integral occupancy sensor with automatic dimming control photocell. (Old nomenclature: ZT + PIR + ADC)
	ZT	+	APD	=	MSD PDT 7 ADCX	Individual fixture control only. PDT integral occupancy sensor with automatic dimming control photocell. (Old nomenclature: ZT + PDT + ADC)
	NLIGHT	+	(blank)	=	nIO EZ PH	nLight enabled only. No onboard sensor.
	NLIGHT		EMG	=	nIO EZ PH ER	Emergency nLight enabled only. No onboard sensor.
	NLIGHT	+	API	=	nIO EZ PH + nES 7 ADCX	nLight nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell. (Old nomenclature: NLIGHT + PIR + ADC)
	NLIGHT	+	PDT	=	nIO EZ PH + nES PDT 7	nLight nES PDT 7 dual technology integral occupancy sensor. (Old nomenclature: NLIGHT + PDT)
	NLIGHT	+	APD	=	nIO EZ PH + nES PDT 7 ADCX	nLight nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell. (Old nomenclature: NLIGHT + PDT + ADC)
	NLTAIR2		(blank)		RIO EZDL 90D G2	https://www.acuitybrands.com/products/detail/778845/nLight/rIO/Fixture-embedded-nLight-AIR-network-interface
	NLTAIR2		API		RES7 G2	https://www.acuitybrands.com/products/detail/593899/nLight/RES7_Sensor/nLight-AIR_Fixture-Integrated-Wireless-Sensor
	NLTAIR2		APD		RES7 PDT G2	https://www.acuitybrands.com/products/detail/593899/nLight/RES7_Sensor/nLight-AIR_Fixture-Integrated-Wireless-Sensor

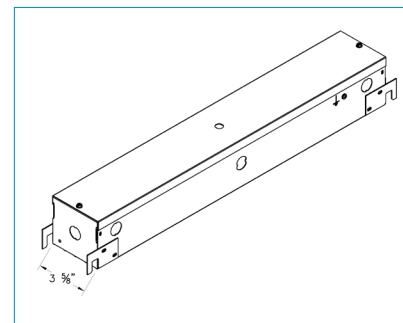
Remote BGTD Mounting Option

Recessed in sheetrock ceiling; rod mounted to structure. Consult factory for other ceiling types or canopy options.

6 foot flexible conduit included, BGTD option should be mounted within 6 feet of junction box above fixture.



Accessible Ceiling



Emergency Battery Packs

The PS1055LCP battery is integral to the fixture and comes standard with a remote test switch and self-diagnostics.

nLight Air Wireless Antenna Location

Note: Antenna will be shipped separately and will need to be attached to the coax connector.

