

MARK ARCHITECTURAL LIGHTING™



Slot 4 LED Direct Pendant Patterns

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 LED 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 3.5" 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 lens.

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.

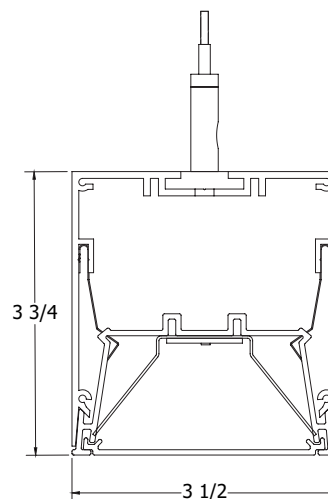
Specifications subject to change without notice.

Fixture Performance

4FT INDIVIDUAL (35K)	DIRECT			
Lumens Output	400LMF	600LMF	800LMF	1000LMF
Delivered Lumens	1800	2707	3571	4103
Input Watts	15.4	23.5	31.9	37.3
Lumen/Watt	117	115	112	110

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

Technical Drawing



Direct Pendant



eldoLED
your product | our drive

Declare.

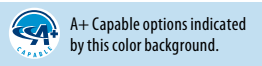
MARK

ARCHITECTURAL

LIGHTING™

Slot 4 LED

Direct Pendant Patterns



Ordering

Example: S4LDP RPP 30FT 490C 80CRI 30K 400LMF MIN1 MVOLT WHT ZT F1/36A RDCY WHTCY WCRD

Series		Plan		Total Run Length		Configuration ²		Direct Light Source Color Rendering		Direct LED Color Temp		Direct LED Light Output		Direct Distribution (Optics)					
S4LDP	Slot 4 Pendant Patterns - Direct	SPP	Square Pattern Plan	<u>FT</u> ¹	Specify continuous run length (in whole feet 2' minimum)	<u>90C</u>	# corners	80CRI	80 CRI	27K	2700K	400LMF	400 Lumens per FT	(blank)	Standard Lambertian Distribution				
		RPP	Rectangular Pattern Plan			<u>90T</u>	# T - intersections	90CRI	90 CRI	30K	3000K	600LMF	600 Lumens per FT						
		OPP	Open Pattern Plan			<u>90X</u>	# X - intersections	35K	3500K	800LMF	800 Lumens per FT								
		CPP	Closed Pattern Plan					40K	4000K	1000LMF	1000 Lumens per FT								
										50K	5000K	<u>LMF</u> ³	## Lumens per FT (Limited to 350LMF to 1050LMF in 50LMF increments)	WG ⁴	Wall Graze Distribution				
Minimum Dimming Level		Optional Shielding ⁶		Voltage		Finish		Emergency Options				Control Input							
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	(blank)	Non-dimming, line voltage	ZT	0 10V Control						
MIN1	Constant current, dimming to 1%	EGLD ⁷	Edge View Direct Lens	120	120V	BLK	Black (gloss)	<u>E10WLCP</u> ^{8,9}	# 4ft emergency sections w/ battery pack 1250 lumens	NLIGHT ¹²	nLight enabled	NLTAIR2 ¹³	nLight AIR (wireless) enabled						
DARK	Constant current, dimming to 0.1%		Not available with NLTAIR2	277	277V	SLV	Silver (gloss)			WHTT	White (textured)	DALI ¹⁴	DALI compatible						
						BLKT	Black (textured)	BLKT	Black (textured)	ECOD ¹⁵	Lutron Hi-Lume Digital driver								
						SLVT	Silver (textured)	<u>EC</u> ¹⁰	# of Emergency Circuits	ECOD2 ^{15,16}	Lutron Hi-Lume 2-wire (1% Dimming)								
						RALTBD	RAL paint finishes. See RAL Brochure for available options and ordering information	BGTD ^{10,11}	Generator Transfer Device	ECOD5 ¹⁵	Lutron 5-series digital driver (5% Dimming)	For additional ordering assistance consult 'Intelligent Luminaire Technology Guide'.							
Sensor				Secondary Sensor				Tertiary Sensor				Mounting Type				Overall Suspension		Canopy Form	
(blank)	select if single zone/no zone without sensor	SNS	select if multi-zone fixture with no sensor in secondary zone	TNS	select if multi-zone fixture with no sensor in tertiary zone	F1/	T-bar ceiling (universal mounting bracket)	36A	36" adjustable	RDCY	Round Canopy								
NS	select if multi-zone fixture with no sensor in main zone					F1A/	T-bar ceiling (UMB with integrated J-box)	72A	72" adjustable	SQCY	Square Canopy								
PDT ¹⁷	Occupancy Sensor- Dual Technology (Passive Infrared & Microphonics)	SPDT ¹⁷	Occupancy Sensor- Dual Technology (Passive Infrared & Microphonics)			F2/	Hard ceiling (horizontal J-box)	144A	144" adjustable										
ADC ¹⁷	Photocell- Daylight Dimming Sensor	SADC ¹⁷	Photocell- Daylight Dimming Sensor																
API ¹⁸	PIR Occupancy Sensor & Photocell	SAPI ¹⁸	PIR Occupancy Sensor & Photocell																
APD ¹⁸	PDT Occupancy Sensor & Photocell	SAPD ¹⁸	PDT Occupancy Sensor & Photocell																
For additional ordering assistance consult 'Intelligent Luminaire Technology Guide'.																			
Canopy Color		Cord Color		Options															
BLKCY	Black canopy	WCRD	white cord	DPL	Damp Location Listing														
WHTCY	White canopy	CCRD	clear cord	GLR	fast-blow fuse														
SLVCY	Silver canopy			GMF	slow-blow fuse														
				MCS	5" support to match power feed canopy														
				PIF	Power Feed Installed														

Notes:

1. Fixture length may effect available options, consult factory with validation issues.

2. Configurations do not contain emergency options or sensors, those options are controlled from the straight fixtures.

3. Not available with ECOD, ECOD2, ECOD5 options.

4. Not available with EGLD option.

5. Not available with Control inputs.

6. Not available with sensor options.

7. Not available with NLTAIR2 or WG optics.

8. Not available on 2ft or 3ft fixtures, or with ECOD, ECOD2, ECOD5 options.

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 ECOD, ECOD2, ECOD5 or DMX option; or ZT/NLTAIR2 sensors in the same fixture section.

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, not available with WW option or on 2ft or 3ft sections. If sensor required must select API or APD. If ordered with E10WLCP not available in 5FT sections.

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, requires ZT or NLIGHT control input.

18. Not available on 2ft or 3ft fixtures, must select ZT, NLIGHT, or NLTAIR2 options.

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

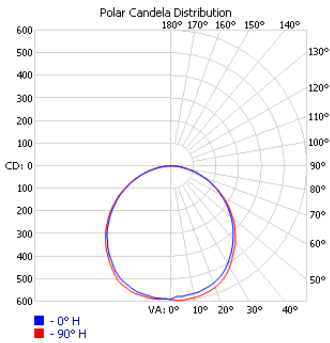
This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*

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.

*See ordering tree for details

PHOTOMETRICS



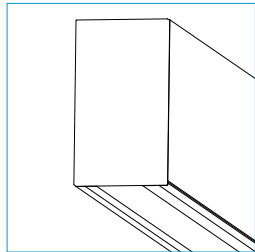
Test Report: ISF 37228P0
IES LM 79-08
S4LD 4FT 80CRI 30K 400LMF
Lumens: **1730**
Wattage: **15.37W**
Efficacy: **112.5**

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	472.9	27%
0-40	773	44.70%
0-60	1359.4	78.60%
60-90	370	21.40%
70-100	159	9.20%
90-120	0.3	0%
0-90	1729.4	100%
90-180	0.6	0%
0-180	1730	100%

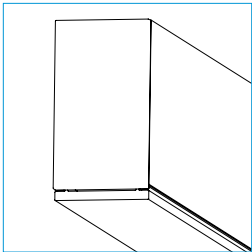
Angle	Candlepower Distribution								
	Plane								
	0	22.5	45	67.5	90	112.5	135	157.5	180
0	591	591	591	591	591	591	591	591	591
5	580	589	597	594	597	596	596	595	588
10	574	584	590	591	592	593	594	592	583
15	565	576	579	582	585	584	587	583	577
20	552	559	567	569	573	572	573	570	560
25	532	539	549	549	551	549	551	552	541
30	501	509	515	514	519	520	519	518	509
35	466	473	480	480	479	480	484	483	475
40	427	436	443	441	443	441	443	443	434
45	388	394	400	401	401	400	405	402	396
50	346	353	355	356	356	355	358	360	351
55	302	310	310	310	313	309	316	314	305
60	254	263	262	261	261	261	262	266	259
65	208	214	213	212	213	213	214	217	210
70	162	165	165	166	167	165	164	165	161
75	116	118	116	117	117	116	116	116	115
80	69	70	71	72	72	72	71	70	69
85	30	32	32	33	33	32	30	29	27
90	1	2	0	0	0	1	0	1	1

EXPECTED LIFE: L85 @ 60,000
CALCULATED LIFE: L70 @ 120,000

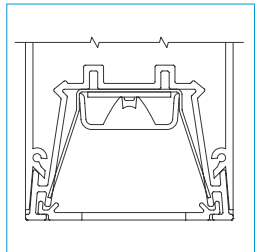
Shielding



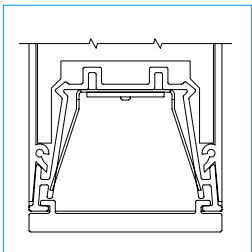
Co-Extruded WG



Edge View Lens



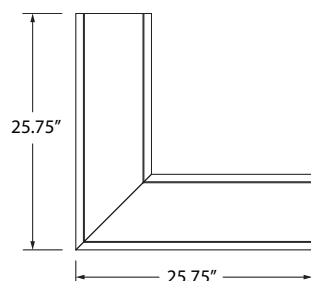
Co-Extruded WG
(Standard)



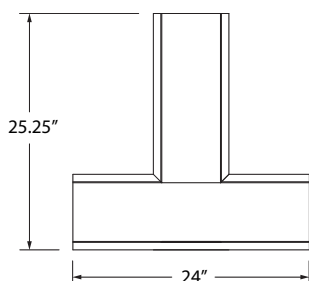
Edge View Lens
(Optional)

Patterns Plan:

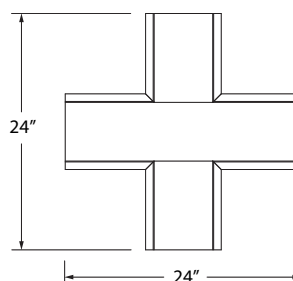
Slot 4 LED patterns can be configured in 1' increments with illuminated 90° inside and outside corners, T junctions, and X junctions with standard 2' corner and junction lengths. For custom angles, corner or junction lengths, consult factory.



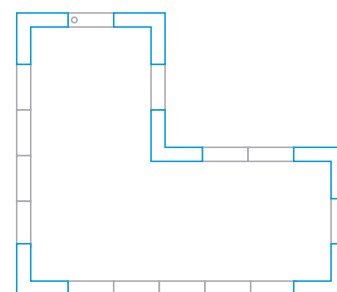
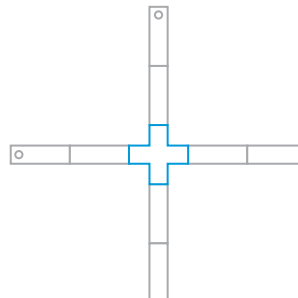
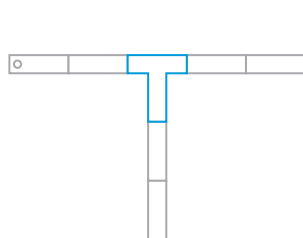
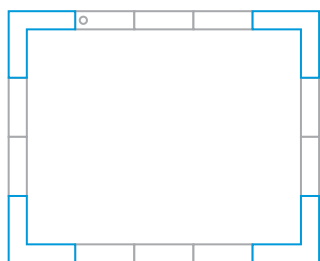
90° Corner



T Junction



X Junction



Tips

4 corners per SPP and RPP plans

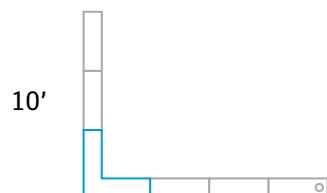
Maximum of 6 corners per OPP and CPP plans

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:



14'

*not to scale

Total run length = 24'

190C = 1 90° corner

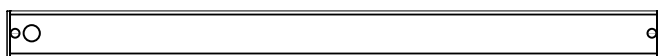
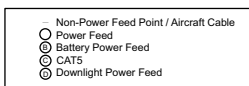
S4LDP OPP 24FT 190C 80CRI 30K 600LMF MIN1 EGLD 120 WHT ZT F1/72A RDCY WHTCY CCRD MCS

Layout Sketch

Please draw and configure your pattern plan below.



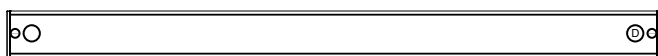
Feed Point Locations



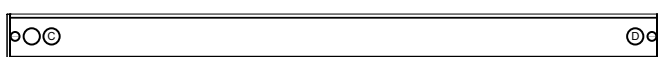
Direct, Dimming* or Non-Dimming



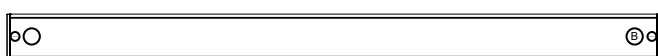
Direct, nLight Controls (wired)



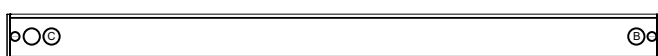
Direct, w/ Downlights**, Dimming* or Non-Dimming



Direct, w/ Downlights**, nLight Controls (wired)***



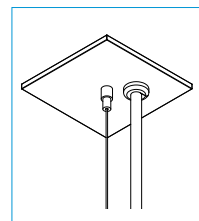
Direct, Battery (E10WLCP), Dimming* or Non-Dimming



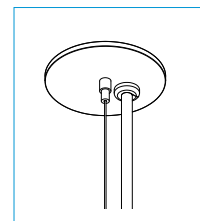
Direct, Battery (E10WLCP), nLight Controls (wired)

* 2-Wire Dimming (ZT, DALI, and Lutron EcoSystem)

Single Feed Points

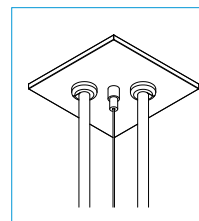


5" Square

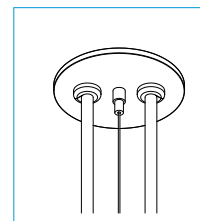


5" Round

Feed and Cat 5 points

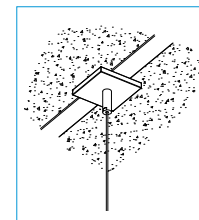


5" Square

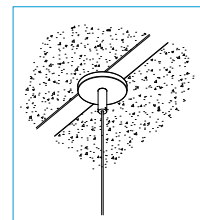


5" Round

Non-Fed Points for T-Bar Mounting



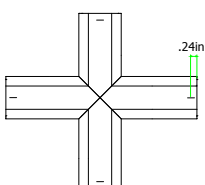
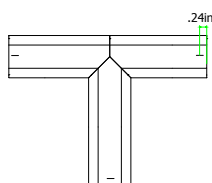
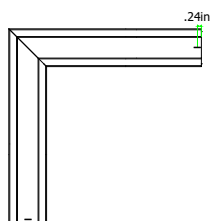
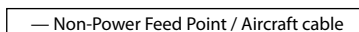
2" Square



2" Round

Refer to page 7 for mounting details.

Support Point Locations

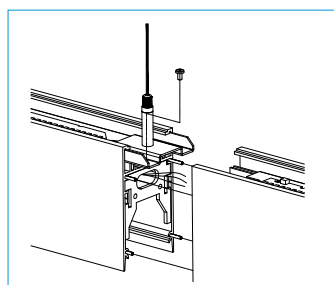


Continuous Runs

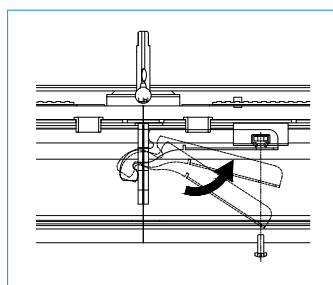
Slot 4 LED features the AEL precision joiner to create a hairline seam between luminaires, providing a monolithic visual aesthetic. For custom run lengths less than a 1' increment, consult factory.

Joiners

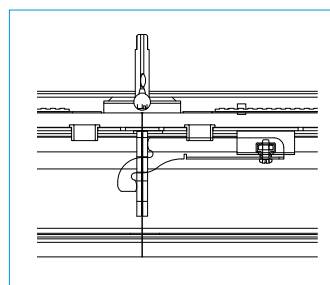
AEL Precision Row-Mount 3-step fixture-to-fixture connection method



Step 1: Align



Step 2: Engage



Step 3: Lock

MARK

ARCHITECTURAL
LIGHTING™

Slot 4 LED

Direct Pendant Patterns

MOST COMMON MOUNTING TYPES AND OPTIONS

Options available for this specific luminaire are checked in the boxes below.

Mounting Type	Mounting Options
F1/ For use with most T-Bar and screw slot grid ceilings. Designed for on-grid and off-grid applications.	MCS Matching canopy at support for aesthetics.
F2/ For use with recessed or surface mount horizontal J-box applications.	
F1A/ For use with most T-Bar and ceilings. Designed for on-grid and. Comes complete with J-box with built-in wire way. See also CP.	

☒ Indicates mounting options available with this luminaire.

☒ F1/

Power Feed

Support

☒ F1/ ordered with MCS

Power Feed

Support

☒ F1A/

Power Feed

Support

☒ F1A/ ordered with MCS

Power Feed

Support

☒ F2/

Power Feed

Support

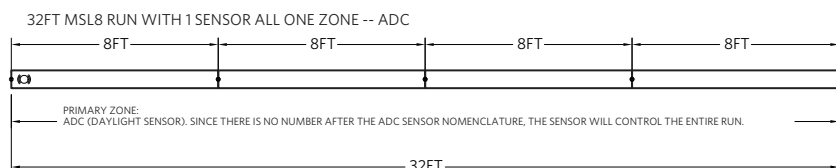
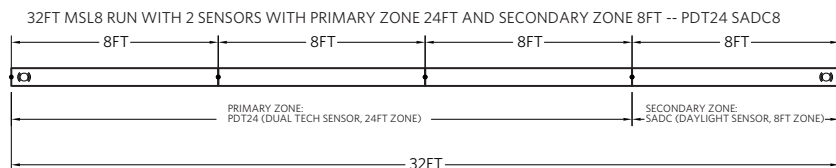
☒ F2/ ordered with MCS

Power Feed

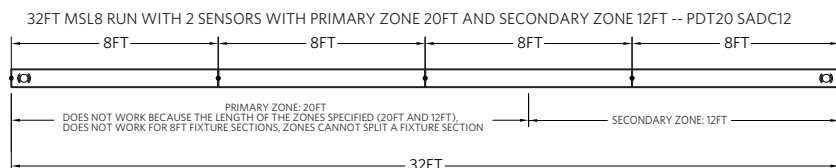
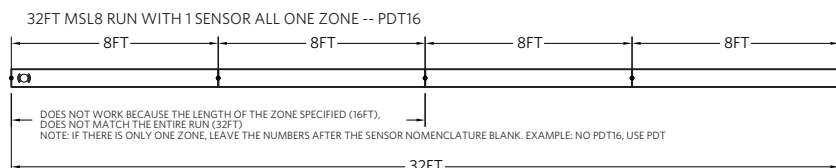
Support

INTEGRATED SENSOR LAYOUT

CORRECT:



INCORRECT:



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

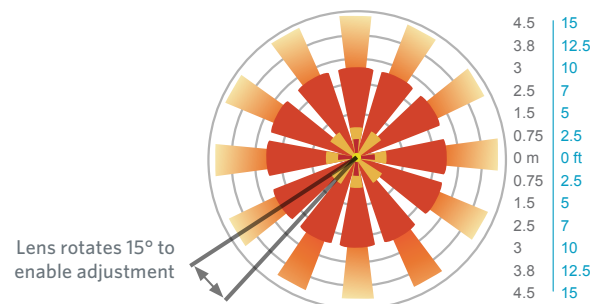
OCCUPANCY DETECTION COVERAGE

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).

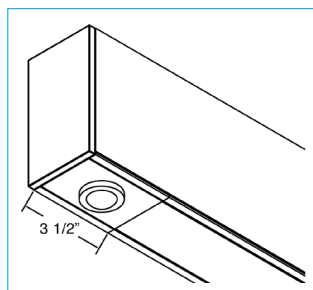
Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.

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.



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. Sensors are only located on straight fixtures.



Occupancy Sensor and/or Photocell

Intelligent Luminaire Technology Guide

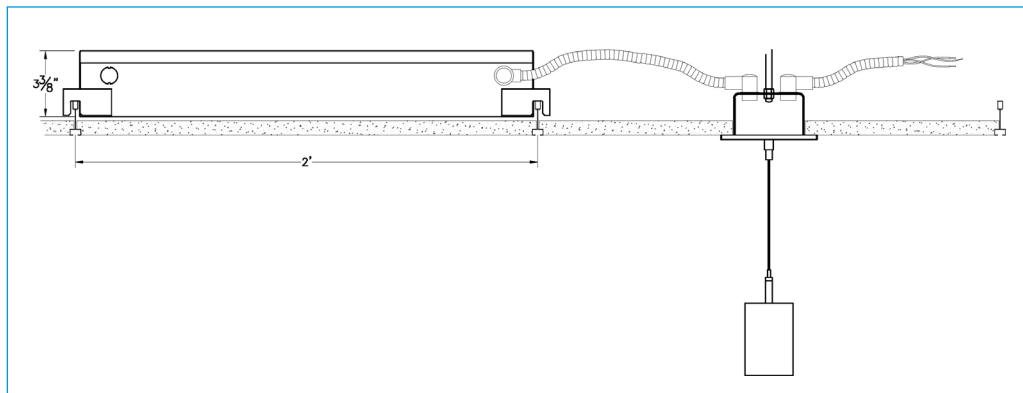
Choose nomenclature from these columns							
Driver Configurations	Minimum Dimming Level		Control Input		Driver	Dimming Range	Notes
	NODIM	+	(blank)	=	0 10V Generic Driver	-	Includes no 0 10V leads from the driver.
	MIN10	+	ZT	=	0 10V Generic Driver	100 to 10%	Linear dimming
	MIN1	+	ZT	=	0 10V eldoLED 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.

