

MARK ARCHITECTURAL LIGHTING™



Slot 4 LED Surface Mount

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 Wash (WW) and Wall Graze (WG) distribution options incorporate co-extruded lenses. Shielding is available as an external blade louver for WW or WG options, or an internal blade louver in lieu of lambertian distribution diffuser.

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.

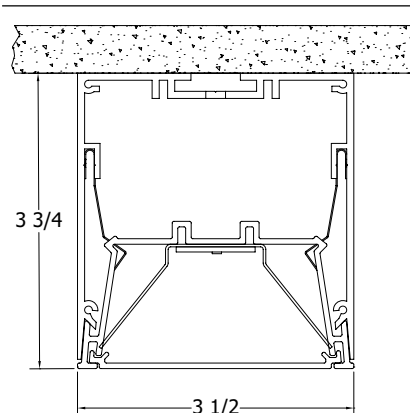
Specifications subject to change without notice.

Fixture Performance

4FT INDIVIDUAL (35K)	DIRECT			
Lumens Output	400LMF	600LMF	800LMF	1000LMF
Delivered Lumens	1800	2707	3571	4103
Input Watts	15.4	23.4	32	37.3
Lumen/Watt	117	115	112	110

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

Technical Drawing



Direct Surface



eldoLED
your product | our drive

Declare.



Buy American



Buy American:

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

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

Ordering

Example: S4LS 32FT MSL8 90CRI 40K 1000LMF DARK EGLD 120 WHT ZT

Series		Plan	Total Run Length		Max Section Length		Direct Light Source Color Rendering		Direct LED Color Temp		Direct LED Light Output		Direct Distribution (Optics)		
SALS	Slot 4 Surface - Direct	LCB	Linear center balanced	_FT	Specify continuous run length (in whole feet, 2' minimum)	MSL4	4'	80CRI	80 CRI	27K	2700K	400LMF	400 lumens per FT	(blank)	Standard lambertian distribution
					Unit length may affect available options.	MSL5	5'	90CRI	90 CRI	30K	3000K	600LMF	600 lumens per FT		
		LLP	Linear longest possible		2' & 3' only available as individual units	MSL6	6'			35K	3500K	800LMF	800 lumens per FT	WW ²	Wallwash distributions
						MSL7	7'			40K	4000K	1000LMF	1000 lumens per FT		
						MSL8	8'			50K	5000K	_LMF ¹	# lumens per FT	WG	Wall graze distribution
				For runs longer than 8FT: ALWAYS order the run by the TOTAL RUN LENGTH. Ordering the sections individually will not provide the correct joining hardware to allow connection in the field.											
Downlight		Downlight Shape		Downlight Color Rendering		Downlight Color Temp		Minimum Dimming Level		Optional Shielding		Voltage			
(blank)	No Downlight modules in fixture	(blank)	No downlight modules in fixture	(blank)	No downlight modules in fixture	(blank)	No downlight modules in fixture	NODIM ³	Non-dimming	(blank)	No louver	MVOLT	Multi-volt, 120-277V		
2DL	LED downlights (2 per unit)			S80CRI	80 CRI			MIN1	Constant current, dimming to 1%	LVRD ⁴	Dropped louver	120	120V		
_DL	LED downlights per run (3DL, 4DL, etc.)	RDD	Round			S27K	2700K	DARK	Constant current, dimming to 0.1%	LVRR ⁶	Regressed louver painted to match fixture finish	277	277V		
		SQD	Square			S30K	3000K								
						S35K	3500K					LVRRRA ⁶	Regressed louver, aluminum finish	347 ⁷	347V
						S40K	4000K					EGLD ^{4,5}	Edge View direct lens		
Must select all Downlight options. Specify number of downlights modules. Not available on 2' or 3' units. Not available with 347V. Maximum of 2DL in 4' & 5' units.		Not available with emergency options. Not available with 4' unit with DCT. Not available with any sensors on the same unit.													
Finish		Emergency Options		Control Input		Sensor		Secondary Sensor							
WHT	White (gloss)	E10WLCP ⁸	4' emergency section w/ battery pack, 1250 lumens	(blank)	Non-dimming, line voltage	(blank)	Select if single zone/no zone without sensor	(blank)	No additional zones/sensors						
BLK	Black (gloss)			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 secondary zone						
SLV	Silver (gloss)	_E10WLCP ⁸	4' emergency section w/ battery pack, 1250 lumens	NLIGHT ¹¹	nLight enabled	PDT ¹⁷	Occupancy sensor - dual technology (passive infrared & microphonics)	SPDT ¹⁷	Occupancy sensor - dual technology (passive infrared & microphonics)						
WHTT	White (textured)	_EC ⁹	# of emergency circuits	NLTAIR2 ¹²	nLight AIR (wireless) enabled	ADC ¹⁷	Photocell-daylight dimming sensor	SADC ¹⁷	Photocell-daylight dimming sensor						
BLKT	Black (textured)	BGTD ^{9,10}	Generator transfer device	DALI ^{13,14}	DALI compatible	API ¹⁸	PIR occupancy sensor & photocell	SAPI ¹⁸	PIR occupancy sensor & photocell						
SLVT	Silver (textured)			DMX ^{13,14}	DMX compatible	APD ¹⁸	PDT occupancy sensor & photocell	SAPD ¹⁸	PDT occupancy sensor & photocell						
RALTB	RAL paint finishes	Not available with 347V.		ECOD ^{14,15}	Lutron Hi-Lume digital driver	Not available with Downlights. Not available with 347V & nLight. (Use ZT or NLTAIR2 Control Inputs where applicable.) Not available on 2' or 3' units.			Not available with Downlights. Not available with 347V & nLight. (Use ZT or NLTAIR2 Control Inputs where applicable.) Not available on 2' or 3' units.						
				ECOD2 ^{14,15,16}	Lutron Hi-Lume 2-wire (1% dimming)										
				ECOD5 ^{14,15}	Lutron 5-series digital driver (5% dimming)										
Tertiary Sensor		Options													
(blank)	No additional zones/sensors	BAA	Buy America(n) Compliant	GMF ¹⁴	Slow-blow fuse										
TNS	Select if multi-zone fixture with no sensor in tertiary zone	GLR ¹⁴	Fast-blow fuse	WL ¹⁴	Wet Location										

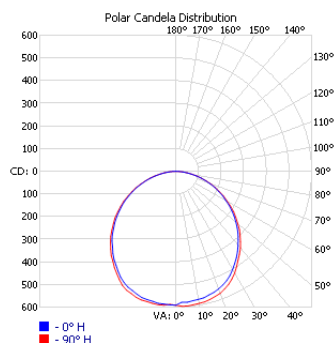
Notes:

- Limited to 350LMF to 1050LMF in 50LMF increments. Not available with ECOD, ECOD2, ECOD5 or DMX control input.
- Not available with NLTAIR2.
- Not available with Control Input.
- Not available with Sensor Options.
- Not available with Emergency Options
- Not available with sensors on 2', 3' & 4' units.
- Not available with ZT & sensors, with NLTAIR2, with emergency options, with NLIGHT in 5' units, with NLIGHT & downlights.
- Not available with 2' or 3' units. Not available with DMX control option. One battery pack per unit. Only available on 8' unit with ECOD, ECOD2, ECOD5. Not available on 5' unit with NLTAIR. If with ZT & API, APD, or NLTAIR2 only available in 7' & 8' units.

- Powers entire direct unit. Not available with DMX. Not available on individual units with NLTAIR2.
- Must select 120 or 277 volt. Remote mounted. Not available with sensor and BGTD in same unit. Not available with DMX.
- Comes with white CAT5 cord in addition to the standard power cord. Will require remote mounted nIO on 2' unit. One NLIGHT device per zone or sensor, for multiple zones consult factory.
- Must select MIN1 or DARK Dim Level. Not available with WW option or 2' & 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.
- Must select DARK Dim Level.
- Not available with 347V.
- Must select MIN1 Dim Level. Not available on 2', 3' or 5' units.

- 120V only.
- Requires ZT or NLIGHT Control Input.
- Requires ZT, NLIGHT or NLTAIR2 Control Input.

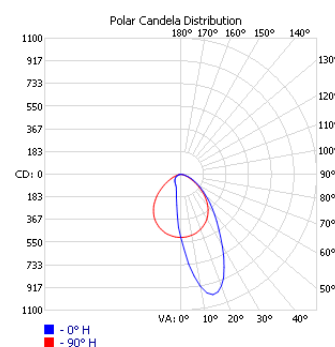
PHOTOMETRICS



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



Test Report: ISF 37775P0
IES LM 79-08
S4LD 4FT 80CRI 30K 400LMF WW
Lumens: **1138**
Wattage: **14.51W**
Efficacy: **78.4**

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	424.2	37.30%
0-40	657.7	57.80%
0-60	1003.1	88%
60-90	134.9	11.90%
0-90	1138	100.00%

Angle	Candlepower Distribution							
	Plane							
	0	22.5	45	67.5	90	112.5	135	157.5
0	509	509	509	509	509	509	509	509
5	730	708	659	590	509	433	371	326
10	922	898	813	676	501	351	256	202
15	1008	989	916	743	489	283	184	138
20	961	970	949	783	471	232	142	109
25	828	862	914	797	448	192	115	96
30	673	713	823	779	421	159	99	88
35	533	569	698	727	383	134	89	81
40	426	453	568	639	341	114	82	76
45	337	362	457	529	291	98	75	69
50	261	282	356	415	237	85	66	62
55	201	214	274	308	182	73	57	54
60	151	159	202	219	133	60	47	45
65	109	115	142	148	91	46	38	35
70	75	78	94	95	61	34	28	26
75	46	48	57	56	36	22	18	18
80	24	26	30	28	18	12	12	11
85	8	9	10	10	8	6	6	5
90	1	2	1	2	2	2	2	2

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

Shielding



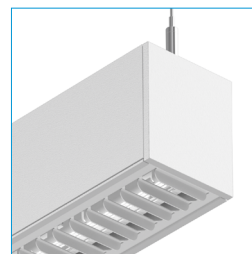
Co-Extruded WG



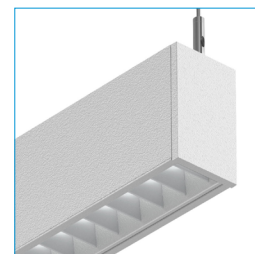
Co-Extruded WW



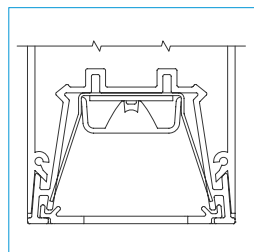
Edge View Lens



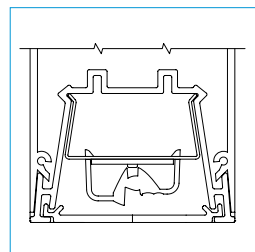
External Louver



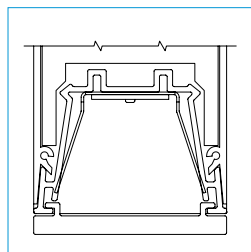
Regressed Louver



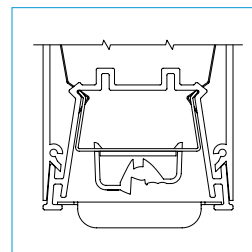
Co-Extruded WG
(Standard)



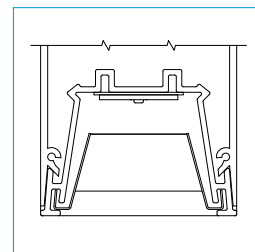
Co-Extruded WW
(Standard)



Edge View Lens
(Optional)



External Louver WW
(Painted to Match Housing)



Regressed Louver
(Natural Aluminum
or Painted to Match
Housing)

MARK

ARCHITECTURAL
LIGHTING™

Slot 4 LED

Surface Mount

LINEAR PLAN:

Mark Lighting offers the ability to provide a continuous run plan to suit your requirements by optionally offering three different methods of configuration.

LLP- Linear Longest Possible

In this configuration, the longest length available is optimized, resulting in the fewest segments and mounting locations. Caution, should be used where balanced appearance is a concern. Example: 20 FT run would have 2, 8 FT segment and 1, 4 FT segment at the end of the run.

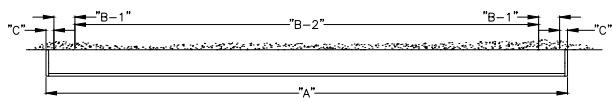
LLP	8 FT	8 FT	4FT
-----	------	------	-----

LCB- Linear Center Balanced:

This configuration incorporates the longest center segment(s) along with any additional lengths required to fill the run length, added to the run ends. Example: 16 FT run would have 2, 4 FT segments (one at each end) and 1, 8 FT segment in the center.

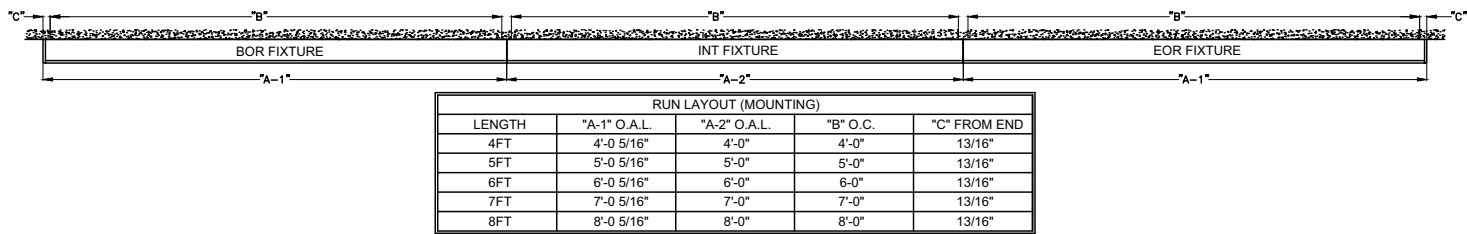
LCB	4 FT	8 FT	4FT
-----	------	------	-----

Individual Fixture Configurations



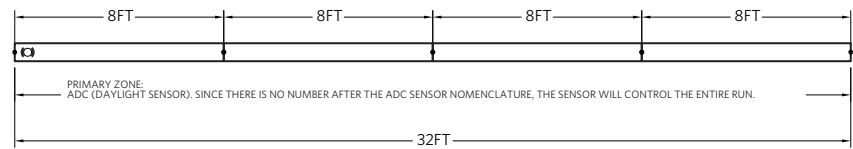
INDIVIDUAL UNITS (MOUNTING)				
LENGTH	"A" O.A.L.	"B-1" O.C.	"B-2" O.C.	"C" FROM END
2FT	2'- 5/8"	2"	1'-7"	13/16"
3FT	3'- 5/8"	2"	2'-7"	13/16"
4FT	4'- 5/8"	2"	3'-7"	13/16"
5FT	5'- 5/8"	2"	4'-7"	13/16"
6FT	6'- 5/8"	2"	5'-7"	13/16"
7FT	7'- 5/8"	2"	6'-7"	13/16"
8FT	8'- 5/8"	2"	7'-7"	13/16"

Run Configurations

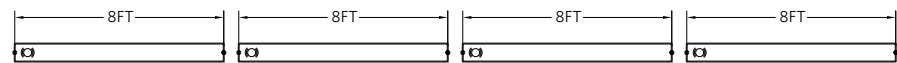


TOTAL RUN LENGTH

This system is not modular. Runs longer than 8FT will be automatically configured with Starter, Middle and Ender sections, based on how you specify the TOTAL RUN LENGTH and MAXIMUM SECTION LENGTH parameters in the ordering information. Always order the total run length, not the individual sections



Example: This run must be ordered as 1pc "S4LS LLP 32FT MSL8..."



Example: If you order as 4pcs "S4LS LLP 8FT MSL8... you will receive these INDIVIDUAL sections that cannot be joined together

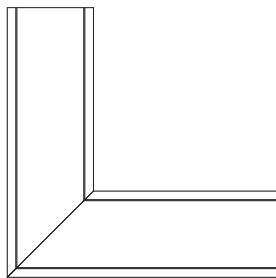
MAXIMUM SECTION LENGTH

The run will be broken out using as many sections at the chosen MSL length as possible. Shorter sections will then complete the desired run length.

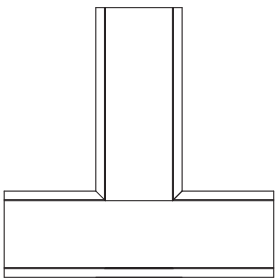
Examples:
S4LS LLP 21FT MSL5... = 5FT / 4FT / 4FT / 4FT / 4FT
S4LS LLP 21FT MSL6... = 6FT / 6FT / 5FT / 4FT
S4LS LLP 21FT MSL7... = 7FT / 7FT / 7FT
S4LS LLP 21FT MSL8... = 8FT / 8FT / 5FT

Run Patterns, Corners and Junction

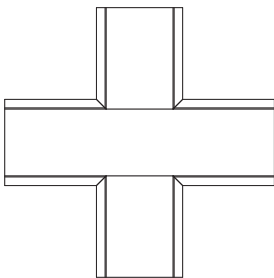
Slot 4 LED patterns be configured in 1' increments with illuminated 90° inside and outside corners, T junctions, and X junctions with standard 2' corner and junction lengths. For custom angles, corner or junction lengths, consult factory.
See separate pattern spec sheet for details.



90° Corner



T Junction



X Junction

MARK

ARCHITECTURAL

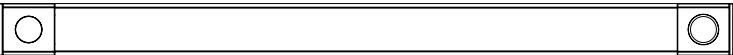
LIGHTING™

Slot 4 LED

Surface Mount

Downlights

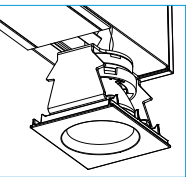
Optional downlights powered by Xicato Spot Modules are available with 4', 5', 6', and 8' length luminaires, maximum (2) Xicato downlights per length. Each downlight module is 10W with 700 lumens delivered, 28 degree beam spread.. Downlights are supplied with a dedicated feed point and will be controlled separately.



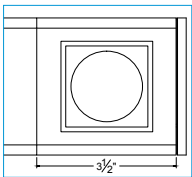
Standard Downlight Location



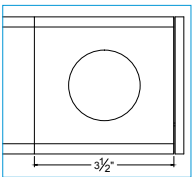
Other Downlight Configuration (consult factory)



Downlight Module

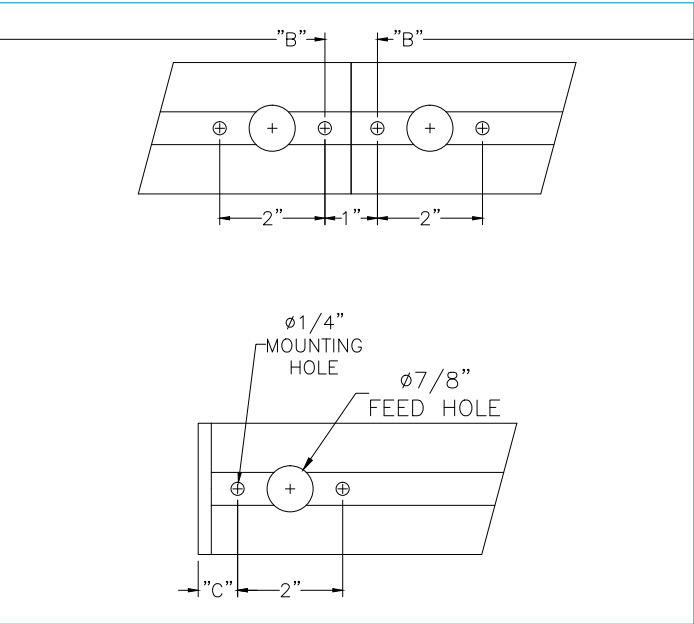


Square Downlight Plate (SQ)



Round Downlight Plate (RD)

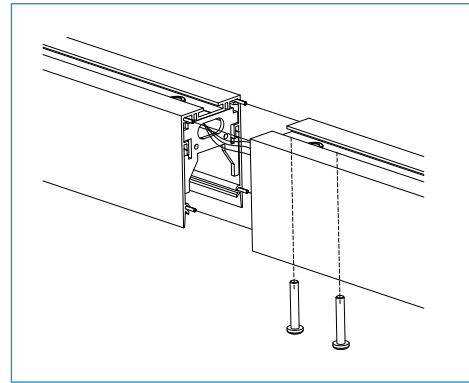
Mounting



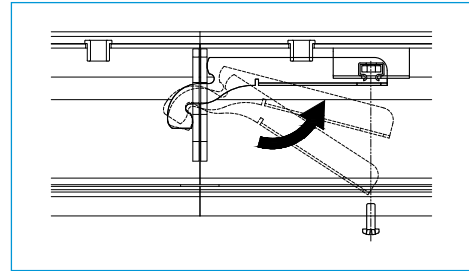
Our surface product mounts to hard/sheetrock ceilings only. Consult manufacturing for use with a grid ceiling.

Joiners

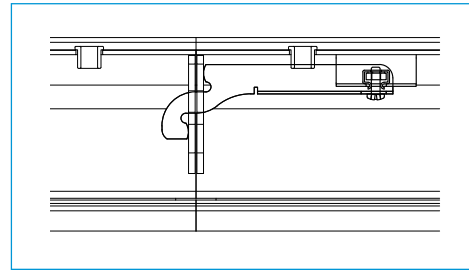
AEL Precision Row-Mount 3-step fixture-to-fixture connection method



Step 1: Align



Step 2: Engage



Step 3: Lock

Continuous Runs

Slot 4 LED continuous rows can be configured in 1' increments and featuring 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.

MARK

ARCHITECTURAL LIGHTING™

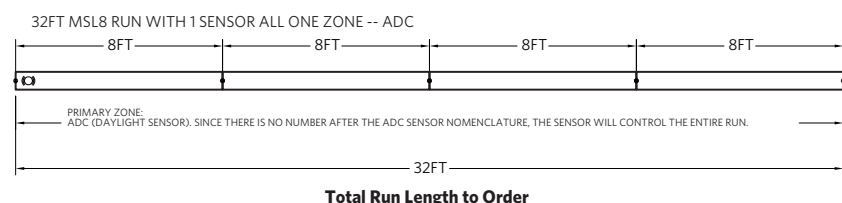
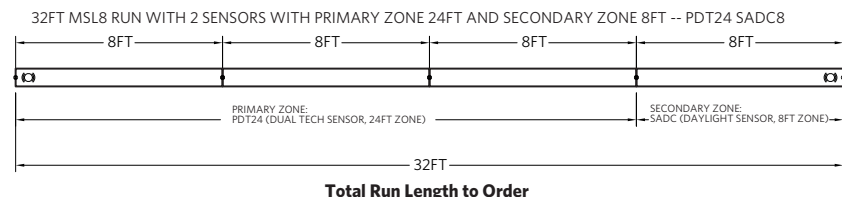
Slot 4 LED

Surface Mount

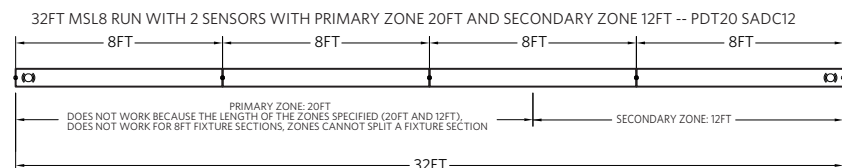
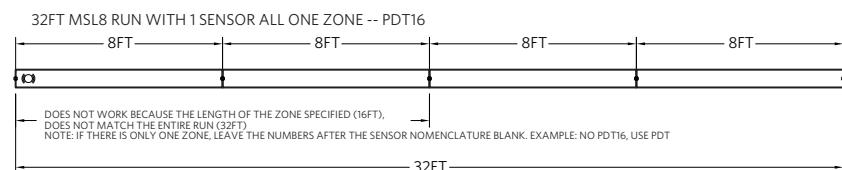
INTEGRATED SENSOR LAYOUT

For runs longer than 8FT:
ALWAYS order the run by the **TOTAL RUN LENGTH**. Ordering the sections individually will not provide the correct joining hardware to allow connection in the field.

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

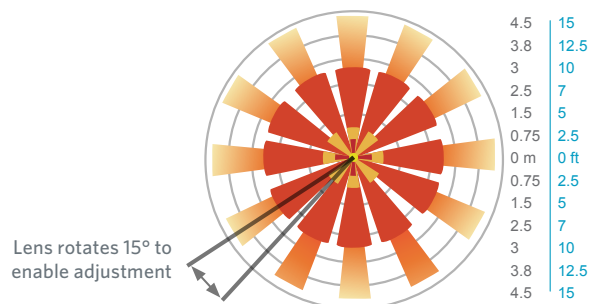
OCCUPANCY DETECTION COVERAGE

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).

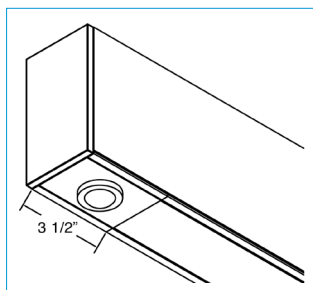
Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.

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.



Occupancy Sensor (MSD9N) and/or Photocell (DSCC)

Intelligent Luminaire Technology Guide

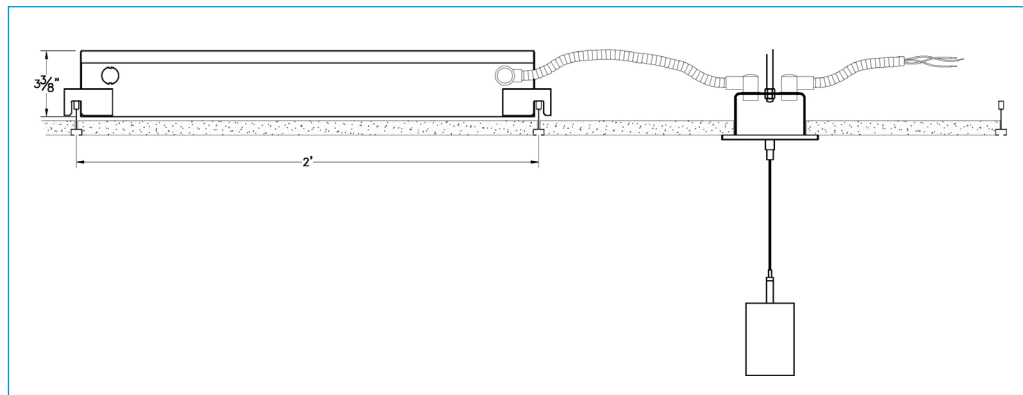
Choose nomenclature from these columns							
Driver Configurations	Minimum Dimming Level		Control Input		Driver	Dimming Range	Notes
	NODIM	+	(blank)	=	0 10V Generic Driver	-	Includes no 0 10V leads from the driver.
	MIN10	+	ZT	=	0 10V Generic Driver	100 to 10%	Linear dimming
	MIN1	+	ZT	=	0 10V eldoLED 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
	DARK		DMX		DMX compatible eldoLED POWERdrive	100 to 0.1%	"Compatible with DMX / Remote Device Management. Formerly (EXB & EDXB) nomenclature." Linear 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

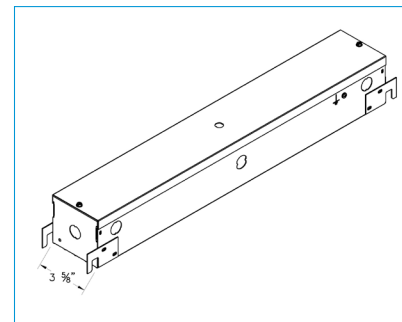
Remote BGTD Mounting Option

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.