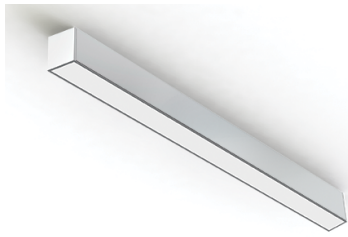


MARK ARCHITECTURAL LIGHTING™



Slot 4 LED Surface Mount Tunable White

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. Clear Acrylic dustcover (DC) is available for the indirect distribution only.

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.

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.

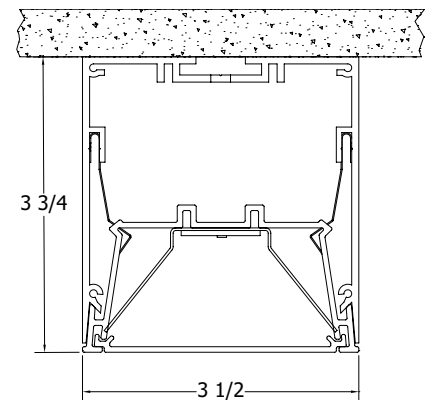
Mainstream Dynamic Tunable White with nTune Technology

Tunable white nTune™ is an all digital light color temperature control within an nLight enabled luminaire. This brings tunable white lighting control into the mainstream with repeatable, consistent results in an economical luminaire form and system already familiar to schools. Designers and facility operators are granted the freedom to tie scenes to specific activities or to complement colors or materials within a visual environment. nTune™ allows color temperature settings through the Productivity Range of 3000K 5000K or Rhythm Range of 2700K to 6500K. Refer to the nLight Programming User's Guide for instructions on customizing to your application with SensorView™.

Tunable White GPHD

- **Gamut:** One dimensional warm-Cool
- **Path:** Direct 3000K to 5000k (Productivity Range) or 2700K to 6500K (Rhythm Range)
- **Handle:** Two Natural Language Handles: Intensity and CCT
- **Data:** nLight with nTune technology for both handles of control

Technical Drawing

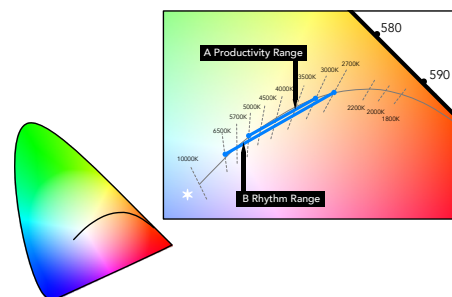


Direct Surface



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** Productivity Range 3000K to 5000K
- **B** Rhythm Range 2700K to 6500K



A+ Capable options indicated by this color background.

Ordering

Example: S4LS 4FT MSL4 80CRI TUWH PROR 600LMF DARK NLT 120 WHT

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Series	Plan	Total Run Length	Max Section Length	Direct Light Source Color Rendering	Dynamic Feature	Dynamic Range
S4LS Slot 4 Surface - Indirect / Direct	LCB Linear center balanced LLP Linear longest possible	_FT¹ Specify continuous run length (in whole feet 2' minimum)	MSL4 4' MSL5 5' MSL6 6' MSL7 7' MSL8 8'	80CRI 80 CRI 90CRI 90 CRI	TUWH Tunable White	PROR Productivity Range (3000K-5000K) RHYR Rhythm Range (2700K-6500K)

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Direct LED Light Output	Direct Distribution (Optics)	Minimum Dimming Level	Control Interface	Optional Shielding ⁴	Voltage
400LMF 400 Lumens per FT 600LMF 600 Lumens per FT 800LMF 800 Lumens per FT 1000LMF 1000 Lumens per FT _LMF ## Lumens per FT (Limited to 350LMF to 1050LMF in 50LMF increments)	(blank) Standard Lambertian Distribution WW³ Wallwash Distribution WG³ Wall Graze Distribution	DARK Constant current, dimming to 0.1%	NLT nLight nTune interface	(blank) Standard Shielding only LVRD Dropped Louver LVRP Regressed Louver painted to match fixture finish LVRRA Regressed Aluminum Finish EGLD Edge View Direct Lens	MVOLT Multi-volt, 120-277 120 120V 277 277V

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Finish	Emergency Options	Sensor	Secondary Sensor	Options
WHT White (gloss) BLK Black (gloss) SLV Silver (gloss) WHTT White (textured) BLKT Black (textured) SLVT Silver (textured)	E10WLCP⁵ 4ft emergency section w/ battery pack XXX lumens _E10WLCP⁵ # 4ft emergency sections w/ battery pack XXX lumens _EC⁶ # of Emergency Circuits BGTD^{6,7} Generator Transfer Device	(blank) No Sensor PDT_ Occupancy Sensor- Dual Technology (Passive Infrared & Microphonics) ADC_ Photocell- Daylight Dimming Sensor API_ PIR Occupancy Sensor & Photocell APD_ PDT Occupancy Sensor & Photocell	(blank) No secondary sensor SPDT_ Occupancy Sensor- Dual Technology (Passive Infrared & Microphonics) SADC_ Photocell- Daylight Dimming Sensor SAPI_ PIR Occupancy Sensor & Photocell SAPD_ PDT Occupancy Sensor & Photocell	BAA Buy America(n) Compliant WL Wet Location Listing DPL Damp Location Listing

- Notes:**
1. Fixture length may effect available options, consult factory with validation issues.
 2. Requires extended lead consult factory.
 3. Not available with EGLD, LVRP, or LVRRA options.
 4. Optional shielding not available with sensors.
 5. One EL pack per fixture section not available on 2ft or 3FT sections.
 6. Powers entire direct fixture section (power direct and indirect fixture sections on 2ft fixtures).
 7. Must select 120 or 277.

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

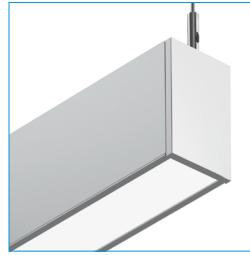
Shielding



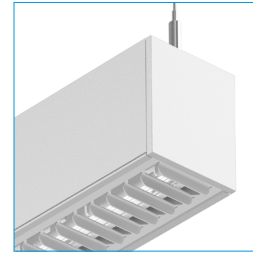
Co-Extruded WG



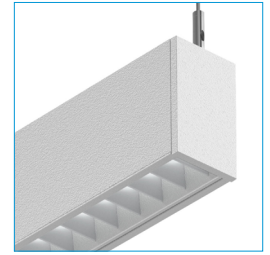
Co-Extruded WW



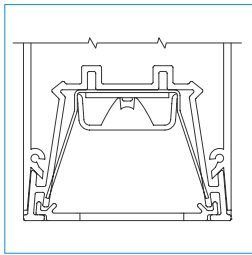
Edge View Lens



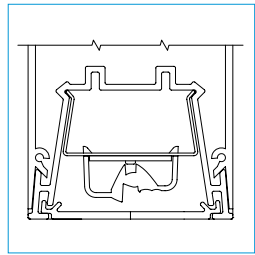
External Louver



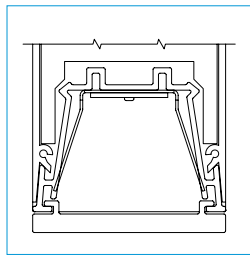
Regressed Louver



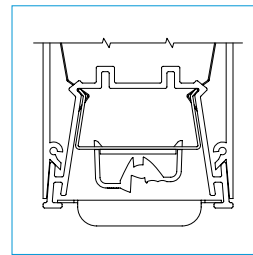
Co-Extruded WG
(Standard)



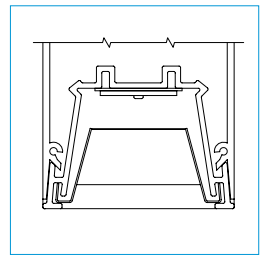
Co-Extruded WW
(Standard)



Edge View Lens
(Optional)



External Louver WW
(Painted to Match Housing)



Regressed Louver
(Natural Aluminum
or Painted to Match
Housing)

Fixture Performance

4FT Individual (80 CRI)		Rhythm Range (RHRY)						Productivity Range (PROR)					
		Total Lumens			Lumens Per Watt			Total Lumens			Lumens Per Watt		
Lumen Output	2700K	4600K	6500K	2700K	4600K	6500K	3000K	4000K	5000K	3000K	4000K	5000K	
Direct	400LMF	1255	1200	1224	87	89	90	1344	1168	1241	89	90	92
	600LMF	1884	1806	1802	85	88	90	1938	1750	1782	89	90	93
	800LMF	2537	2318	2392	85	91	90	2568	2303	2435	87	91	90
	1000LMF	3024	2865	3011	84	91	89	3057	2861	3054	85	92	91

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.

LSL- Linear Same Length:

In this configuration, each segment is the same length and is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length there are mathematical limitations on what overall row lengths can be achieved. Example: 20 FT row would be achieved with 5, 4 FT long segments equaling 20 FT (nominal).

LSL	4FT	4FT	4FT	4FT	4FT
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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.

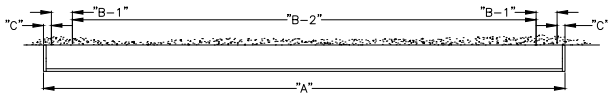
LLP	8 FT	8 FT	4FT
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LCB- Linear Center Balanced:

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.

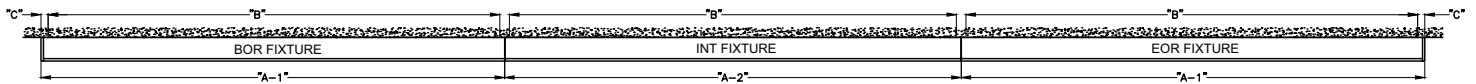
LCB	4 FT	8 FT	4FT
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Individual Fixture Configurations



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"

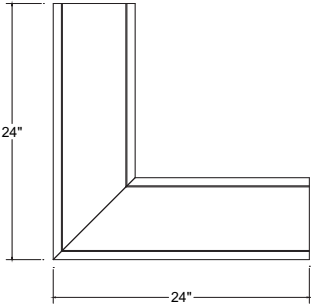
Run Configurations



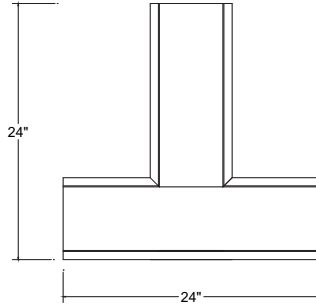
RUN LAYOUT (MOUNTING)				
LENGTH	"A-1" O.A.L.	"A-2" O.A.L.	"B" O.C.	"C" FROM END
2FT	2'-0 5/16"	2'-0"	2'-0"	13/16"
3FT	3'-0 5/16"	3'-0"	3'-0"	13/16"
4FT	4'-0 5/16"	4'-0"	4'-0"	13/16"
5FT	5'-0 5/16"	5'-0"	5'-0"	13/16"
6FT	6'-0 5/16"	6'-0"	6'-0"	13/16"
7FT	7'-0 5/16"	7'-0"	7'-0"	13/16"
8FT	8'-0 5/16"	8'-0"	8'-0"	13/16"

Run Patterns, Corners and Junction

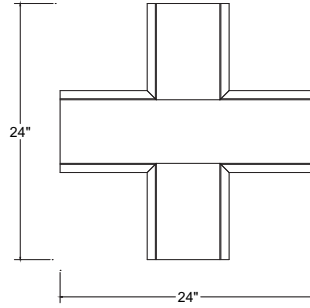
Slot 4 LED patterns be configured in 1' increments with illuminated 90° inside and outside corners, T junctions, and X junctions with standard 2' corner and junction lengths. For custom angles, corner or junction lengths, consult factory.



90° Corner



T Junction



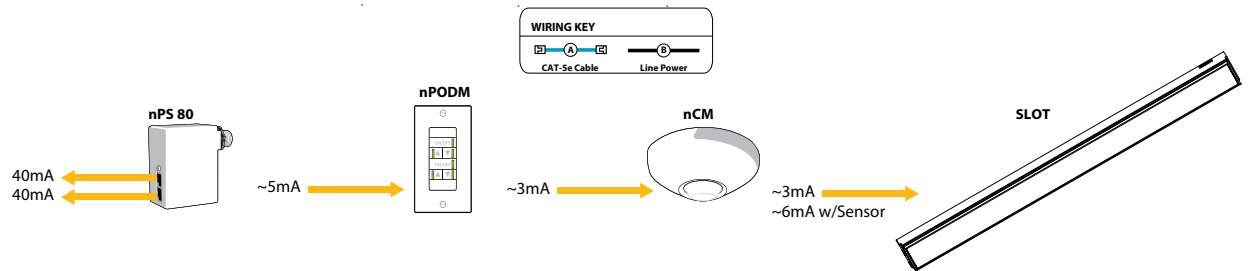
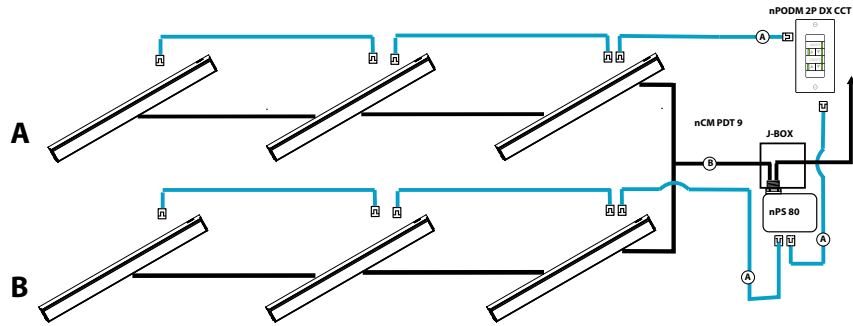
X Junction

Tunable White Wall Pod



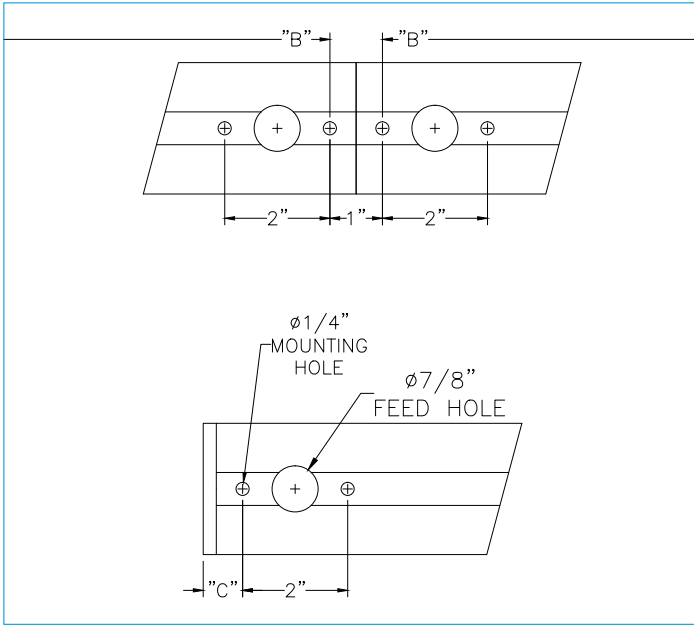
nPODM 2P DX CCT

Typical nLight network layout with power supply, sensor and wallpod.



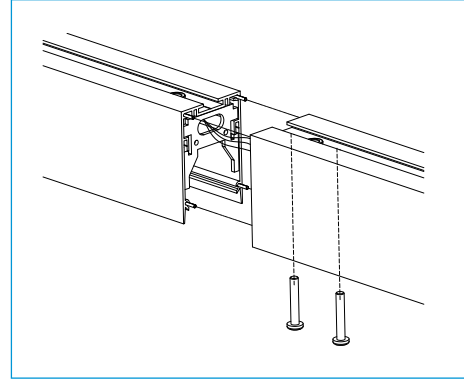
*Note: Also applicable to linear runs. Each 4' fixture section must be connected, by CAT5 cable, to another fixture.

Mounting

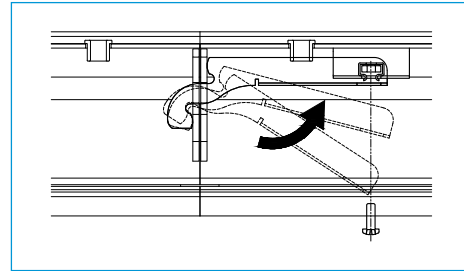


Joiners

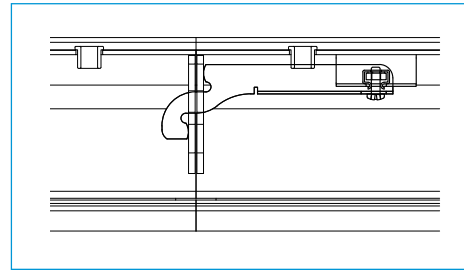
AEL Precision Row-Mount 3-step fixture-to-fixture connection method



Step 1: Align



Step 2: Engage



Step 3: Lock

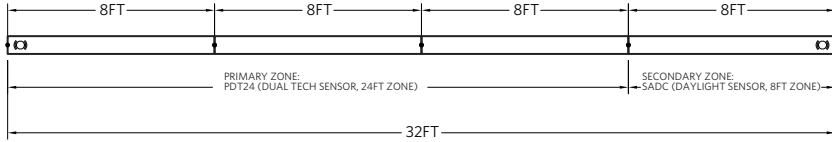
Continuous Runs

Slot 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. (see AEL joiner information on page 5). For custom run lengths less than a 1' increment, consult factory.

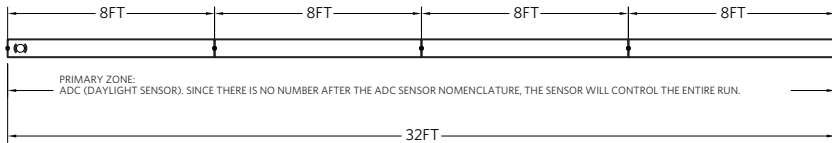
INTEGRATED SENSOR LAYOUT

CORRECT:

32FT MSL8 RUN WITH 2 SENSORS WITH PRIMARY ZONE 24FT AND SECONDARY ZONE 8FT -- PDT24 SADC8

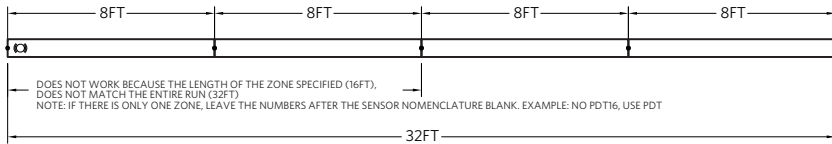


32FT MSL8 RUN WITH 1 SENSOR ALL ONE ZONE -- ADC

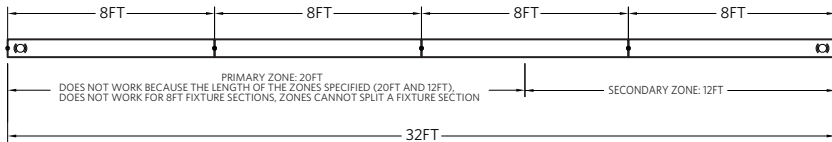


INCORRECT:

32FT MSL8 RUN WITH 1 SENSOR ALL ONE ZONE -- PDT16



32FT MSL8 RUN WITH 2 SENSORS WITH PRIMARY ZONE 20FT AND SECONDARY ZONE 12FT -- PDT20 SADC12



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

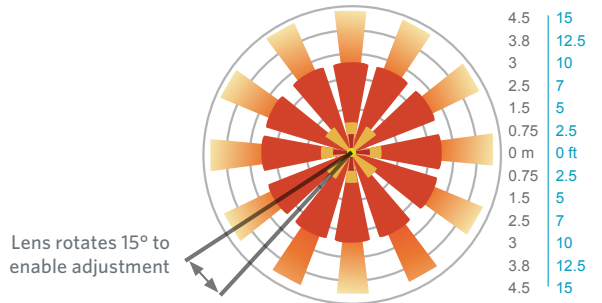
OCCUPANCY DETECTION COVERAGE

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).

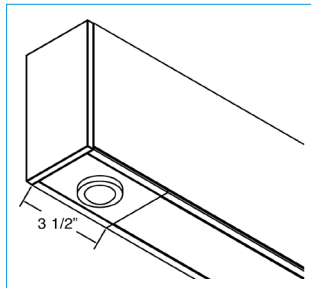
Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.

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.

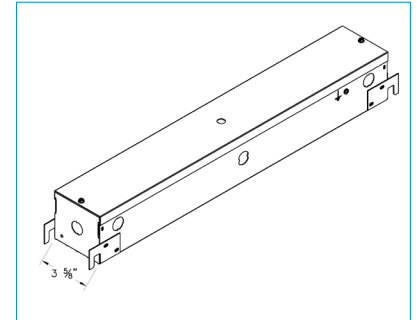
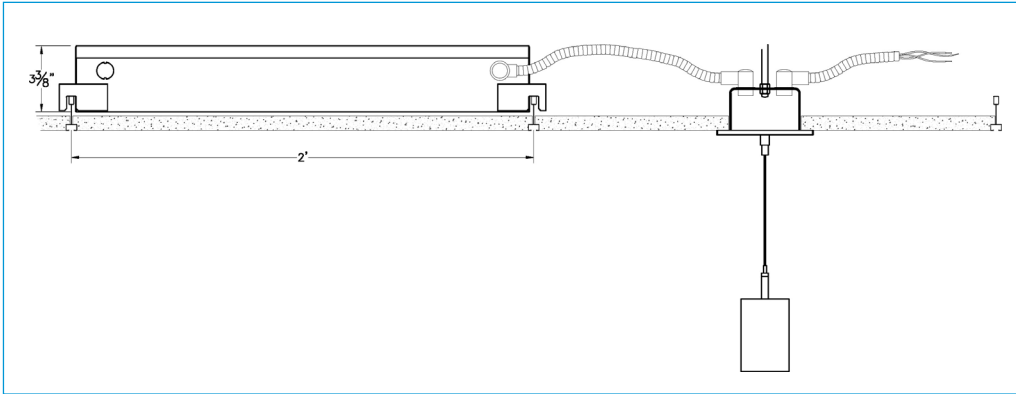


Occupancy Sensor (MSD9N) and/or Photocell (DSCC)

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

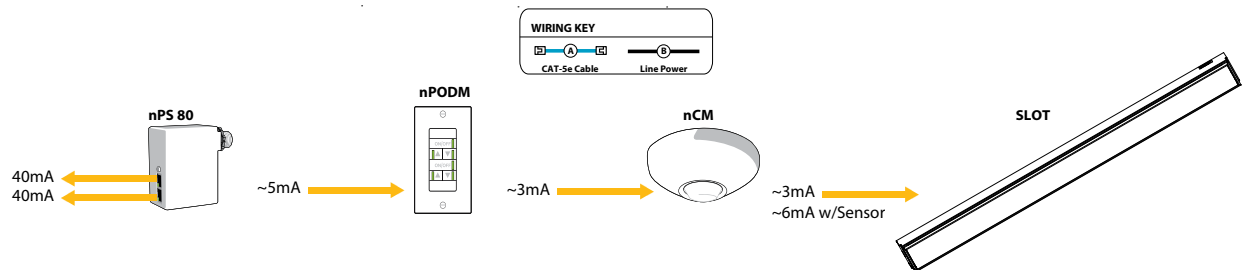
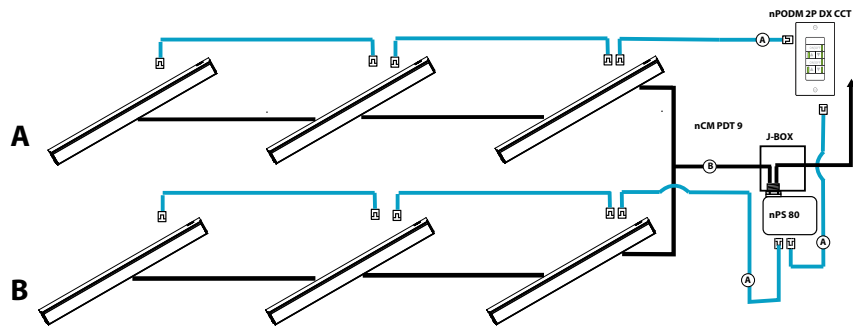
The PS1055LCP battery is integral to the fixture and comes standard with a remote test switch and self-diagnostics.

Tunable White Wall Pod



nPODM 2P DX CCT

Typical nLight network layout with power supply, sensor and wallpod.



*Note: Also applicable to linear runs. Each 4' fixture section must be connected, by CAT5 cable, to another fixture.