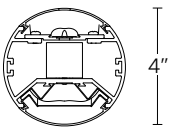




DIMENSIONS

□ RD4M4 (ASO)



DETAILS



End Cap

COMPANION LUMINAIRE(S)



RD4M4
Round 4 I/D



RD4MW
Round 4 Wall-Wash



RD4W4
Round 4 Wall I/D

CUSTOMIZATION

Ask us about the following possibilities: Higher lumen outputs, alternate section lengths in 2' increments, alternate distributions, alternate voltages, additional mounting options, custom colors, higher CRI and R9 values and other modifications.

HIGHLIGHTS

- Total System Integration features
5-year limited warranty by Acuity Brands covering all components and construction
- 4' and 8' sections
- Up to 78 lm/W
- Four distributions available
- High performance batwing and stack distribution using injection molded optic
- Meets or exceeds IESNA standards for vertical illumination ideal for 3' stacks to 7' aisles
- Flicker-free dimming to dark (0.1%) powered by eldoLED[®] driver
- Optional dual circuit switching for independent dimming of indirect and direct light outputs.
- Integrated nLight[®] module for system networking (optional)
- Integrated sensor for daylight dimming and/or occupancy detection (optional)
- White, painted aluminum or custom color



eldoLED

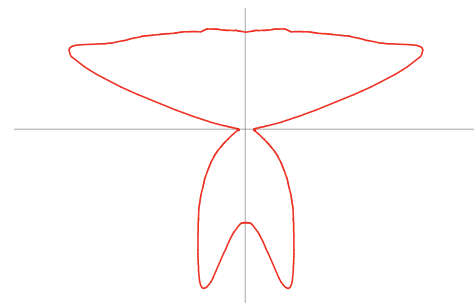


LUMEN PACKAGES 3500K only shown here. See Page 3 for all color temperatures.

Indirect LED Output/ Direct LED Output	Indirect/Direct 1400LMF/ 400LMF	Indirect/Direct 1300LMF/ 800LMF	Indirect/Direct 1800LMF/ 300LMF	Indirect/Direct 1700LMF/ 700LMF
Indirect Delivered Lumens Per Foot/ Direct Delivered Lumens Per Foot	393/393	341/797	805/345	763/763
Total Delivered Lumens Per Foot	786	1138	1150	1526
Input Watts Per Foot	9.2	15	15	20.2
Lumens Per Watt	85	76	77	75

STANDARD DISTRIBUTION

66% Up | 34% Down | HI/LO



SPECIFICATIONS

Housing

Extruded aluminum housing has diameter of 4".

End Caps

Die-cast aluminum end caps are mechanically attached with no exposed fasteners.

Color

Color for housing and end caps is gloss white, black or painted aluminum. Consult factory for custom colors.

Luminaire Length

4' and 8' lengths in a single section for exact suspension spacing of 4' and 8'. For total length, add 3" for each end cap. Using internal joiners, 4' and 8' sections can be joined to form longer rows.

Source

Four LED lumen packages and three available color temperature options (3000K, 3500K and 4000K) — all within 2.5 MacAdam ellipses.

Optics

Optical system consists of injection-molded indirect optic and direct ASO optic, co-extruded acrylic lenses and metal reflectors. Lenses connect end to end to form a continuous line of light.

Dimming Driver

eldoLED driver provides "natural dimming" with smooth, continuous and flicker-free operation to 0.1% dim levels. Acuity luminaires incorporating eldoLED LED drivers perform within the recommended operating areas for flicker as a function of frequency and modulation (%) outlined in 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. Syncing for controls: 2mA max. THD: < 20%. Insignificant inrush current at 120 and 277VAC. FCC Class A and B tested for EMI and RFI. When Control Input of 0-10V is specified driver will be set for linear dimming curve, if NLIGHT is specified driver will be set for logarithmic dimming curve.

For 0-10V driver details go to: PeerlessLighting.com/566L

Controls and System Networking Options

For wired networking via Cat-5e, choose an integrated nLight[®] module. For daylight dimming and/or dual technology occupancy detection, see Integrated Sensor Layout Page for more details.

Electrical

LED light engine — consisting of modular LED boards and 0-10V dimming driver — is rated for 60,000 hours (L₈₀) at 25° C ambient temperature. Specify 120V or 277V. Pre-wired with 16AWG fixture wire. For special circuiting or wire gauge, consult factory. Plug-in electrical connectors included.

Environment

Suitable for damp location.

Validation

CSA/CUS listed. CSA tested to UL 1598 standards. LM-79 tested. Individual sections meet FCC Part 15 requirements.

Packaging

100% post-consumer recycled cardboard box and inserts. Biodegradable protective luminaire bag. Recycled kraft paper tape.

Government Procurement

BAA - Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA - Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

Warranty

5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/support/customer-support/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.

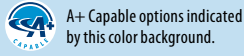
A+ Capable Luminaire

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



MODEL NUMBER Example: RD4M4 LLP 16FT MSL8 80CRI 35K I400LMF 400LMF ASO DARK ZT 120 SCT F1/24A C110

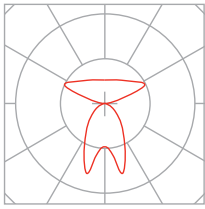
Luminaire	Linear Length Plan	Total Run Length	Maximum Section Length	LED Color Rendering	LED Color Temperature	Indirect LED Output
RD4M4	LLP Linear longest possible LSL Longest same length	__FT Indicate Luminaire Row Length in 4' increments. Ex: 12FT	MSL4 4' Section(s) MSL8 8' Section(s)	80CRI 80+ CRI	30K 3000K 35K 3500K 40K 4000K	I400LMF 400 nominal indirect lumens per foot I800LMF 800 nominal indirect lumens per foot

Direct LED Output	Shielding	Minimum Dimming Level	Control Input	Voltage	Wiring Option	Emergency Options
400LMF 400 nominal direct lumens per foot 800LMF 800 nominal direct lumens per foot	ASO Aisle/Stack optic	DARK Constant current, dimming to < 1%	ZT* 0-10V NLIGHT** nLight enabled <i>*0-10V will use linear dimming curve **Will use Logarithmic dimming curve</i>	120 120V 277 277V	SCT Single circuit DCT Dual circuit <i>For independent dimming of indirect and direct light outputs, choose DCT</i>	(blank) None 1EC (1) Emergency circuit module 2EC (2) Emergency circuit module _EC ___ Emergency circuit modules _RE10WLCP* _10 Watt Remote emergency battery pack, constant power with self diagnostics. CEC Certified <i>*Not available with F2 Mount Emergency type is installed in last 4' of luminaire sections. Separate feed required.</i>

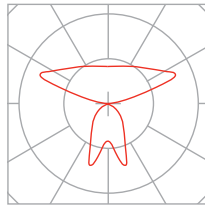
Primary Sensor	Secondary Sensor	Mounting Type/	Overall Suspension
(blank) No factory-installed, integrated sensor PDT_ Dual technology occupancy sensor. PIR & microphonics sensor ADC_ Daylight Dimming Sensor APD_ Dual technology PDT and ADC sensor <i>*Available with ZT or nLight only</i>	(blank) No factory-installed, integrated sensor SPDT_ Dual technology occupancy sensor. PIR & microphonics sensor SADC_ Daylight Dimming Sensor SAPD_ Dual technology PDT and ADC sensor <i>*Available with ZT or nLight only</i>	F1/ T-bar ceiling (universal mounting bracket) F1A/ T-bar ceiling (UMB with integrated J-box) F2/ Hard ceiling (horizontal J-box) <i>*F1 & F1A Mount uses standard 3 1/2" canopy on feed and 2" canopy on support **F2 Mount uses standard 5" canopy on feed and 2" canopy on support *** All feed cords, cord manager and canopies are standard white. They are not painted to match fixture color. Remote RE10WLCP driver box is not painted.</i>	24A 24" adjustable 36A 36" adjustable 48A 48" adjustable 72A 72" adjustable 96A 96" adjustable 144A 144" adjustable 192A 192" adjustable 240A 240" adjustable <i>Measured from ceiling to bottom of luminaire.</i>

Color	Options
C032 Gloss white C110 Painted aluminum C201 Black (low gloss) C099* Custom color <i>*C099 for pricing only. Custom color chip needs to be sent in to Customer Care and matched up with our paint department and customer approved before order is entered.</i>	CSA* Manufactured to Canadian Standards CP Chicago Plenum (available with F1A only) GLR Fast blow GMF Slow blow MCS** Matching canopy at support for aesthetics MCSJ*** Matching canopy for J-box mounting at non-power feed support locations OJB** Offset J-box at feed SLP**** Sloped Ceiling <i>*CSA with EC consult factory **MCS & OJB cannot be chosen together ***MCSJ Available with F2 Mount only ****When SLP is chosen need to choose F2 mount and OJB</i>

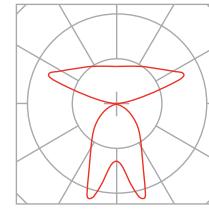
PHOTOMETRICS



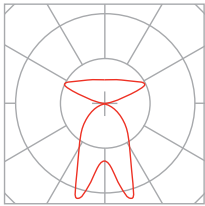
1400LMF 400 LMF ASO
80CRI 35K
78 lm/W
3021 delivered lumens per 4' section
52% up / 48% down



1800LMF 300 LMF ASO
80CRI 35K
78 lm/W
4574 delivered lumens per 4' section
66% up / 34% down



1700LMF 700 LMF ASO
80CRI 35K
71 lm/W
5816 delivered lumens per 4' section
52% up / 48% down



1300LMF 800 LMF ASO
80CRI 35K
72 lm/W
4438 delivered lumens per 4' section
30% up / 60% down

How to Calculate Delivered Lumens in Emergency Mode

Use the formula below to determine the delivered lumens in emergency mode

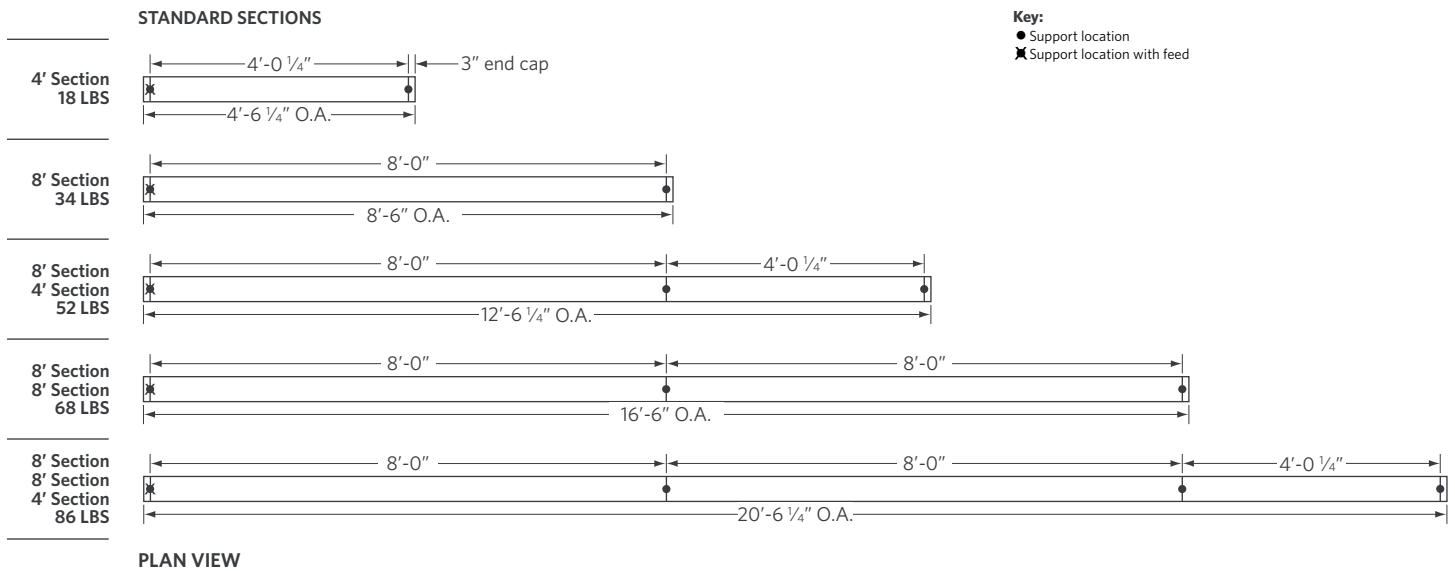
$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

P = Output power of emergency driver. P = 10W for E10WLCP option.

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet. LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

WEIGHTS & SUPPORT SPACING

Suspension spacing equals section length. Default location shown.



LINEAR PLAN:

PEERLESS 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).

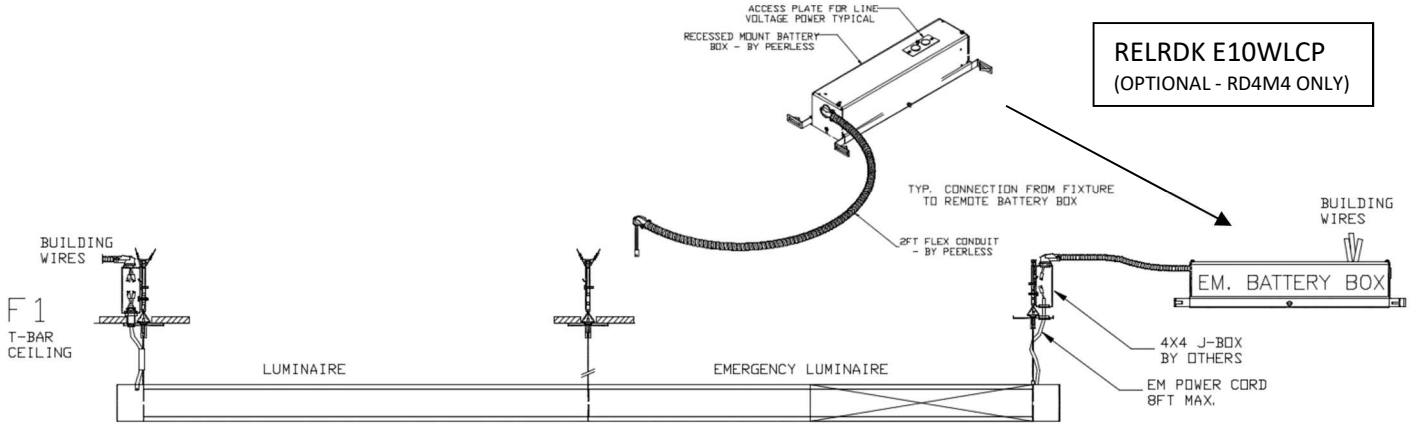
LSL	4FT	4FT	4FT	4FT	4FT
-----	-----	-----	-----	-----	-----

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
-----	------	------	-----

REMOTE DRIVER MOUNTING



TYPICAL FIXTURE MOUNTING

MOST COMMON MOUNTING TYPES AND OPTIONS Options available for this specific luminaire are checked in the boxes below.

Mounting Type

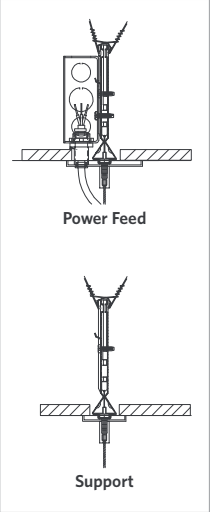
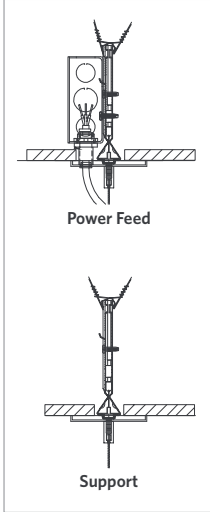
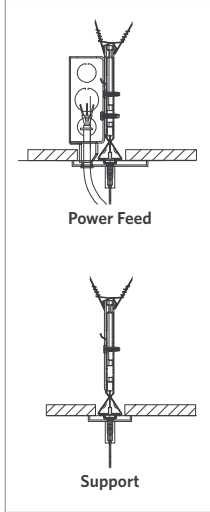
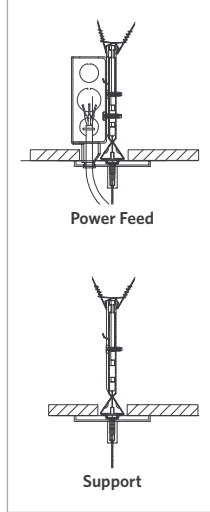
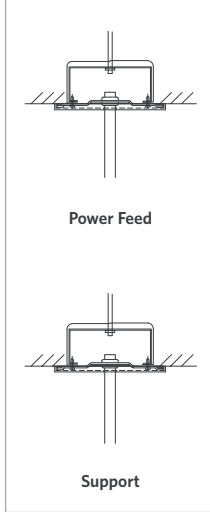
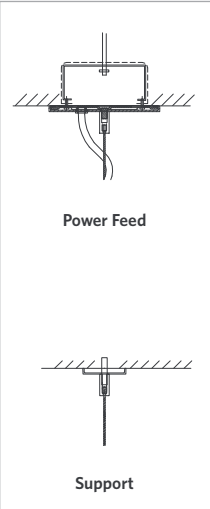
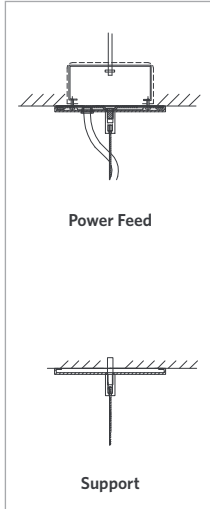
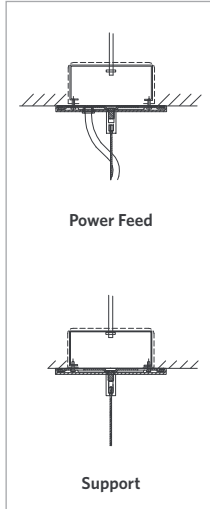
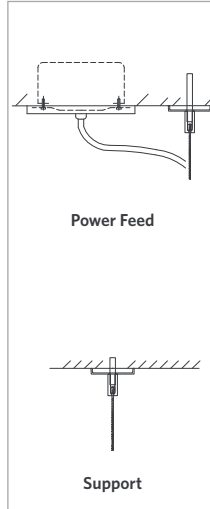
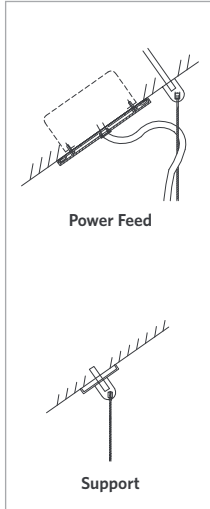
- F1/** For use with most T-Bar and screw slot grid ceilings. Designed for on-grid and off-grid applications.
- F2/** For use with recessed or surface mount horizontal J-box applications.
- F3/** Stem mounting for use with recessed or surface mount horizontal J-box applications. *Check with local jurisdiction regarding rigid stem code requirements.*
- F1A/** For use with most T-Bar and screw slot grid ceilings. Designed for on-grid and off-grid applications. *Comes complete with vertical J-box with built-in wire way. See also CP.*

Mounting Options

- MCS** Matching canopy at support for aesthetics.
- MCSJ** Matching canopy for J-box mounting at non-power feed support locations.
- OJB** Offset J-box at feed.
- SLP OJB** Sloped ceiling couplers and offset J-box option at feed.

For more detailed mounting drawings and information, see peerlesslighting.acuitybrands.com/resources/product-resources

Indicates mounting options available with this luminaire.

<input checked="" type="checkbox"/> F1/	<input checked="" type="checkbox"/> F1/MCS	<input checked="" type="checkbox"/> F1A/	<input checked="" type="checkbox"/> F1A/MCS	<input type="checkbox"/> F3/
 <p>Power Feed</p> <p>Support</p>	 <p>Power Feed</p> <p>Support</p>	 <p>Power Feed</p> <p>Support</p>	 <p>Power Feed</p> <p>Support</p>	 <p>Power Feed</p> <p>Support</p>
<input checked="" type="checkbox"/> F2/	<input checked="" type="checkbox"/> F2/MCS	<input checked="" type="checkbox"/> F2/MCSJ	<input checked="" type="checkbox"/> F2/OJB	<input checked="" type="checkbox"/> F2/SLP OJB
 <p>Power Feed</p> <p>Support</p>	 <p>Power Feed</p> <p>Support</p>	 <p>Power Feed</p> <p>Support</p>	 <p>Power Feed</p> <p>Support</p>	 <p>Power Feed</p> <p>Support</p>

INTEGRATED SENSOR OPTIONS

Control + Sensor Configurations	Control Input	Sensor	Sensor	Notes		
	ZT	+	ADC	=	SensorSwitch NES ADCX	0-10V control Daylight Sensor
	ZT	+	PDT	=	SensorSwitch NES PDT 7	0-10V control Occupancy sensor
	ZT	+	APD	=	SensorSwitch NES PDT 7 ADCX	0-10V control Daylight with Occupancy sensor
	NLIGHT	+	ADC	=	SensorSwitch NES ADCX	nLight control Daylight Sensor
	NLIGHT	+	PDT	=	SensorSwitch NES PDT 7	nLight control Occupancy sensor
NLIGHT	+	APD	=	SensorSwitch NES PDT 7 ADCX	nLight control Daylight with Occupancy Sensor	



Daylight harvesting deactivated by default and field programmed per sequence of operations for PDT sensor options.

Luminaires specified with nLight system networking ship with one RJ-45 connector integrated into the luminaire, 10' of Cat-5e cable and a splitter to control the entire luminaire row (depending on wattage/voltage limitations). For multiple zones, please contact TechSupport-Peerless@AcuityBrands.com.

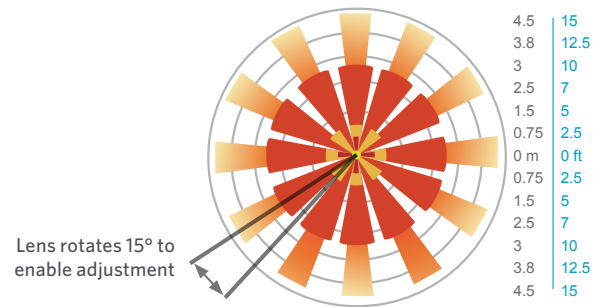
OCCUPANCY DETECTION COVERAGE

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.



COMPATIBLE nLIGHT COMPONENTS WITH INTEGRATED CONTROLS



nPODMA DX WH



nPODMA 2P DX WH



nPODMA 4P DX WH



nPODMA 2L WH



nPOD UNITOUCH WH

Sensor Switch.com/DataSheets/nPODMA.PDF

Sensor Switch.com/DataSheets/nPOD Unitouch.PDF

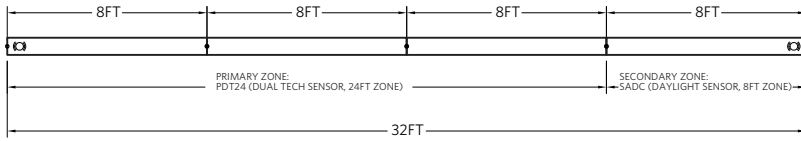
eldoLED COMPATIBILITY For compatible dimmers & switches please see the EldoLED compatibility document

PeerlessLighting.com/eldoLED-compatibility

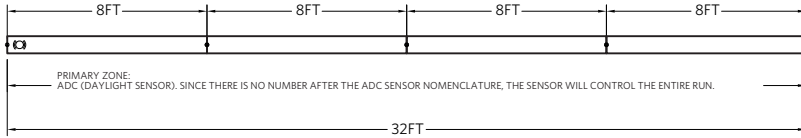
INTEGRATED SENSOR LAYOUT

CORRECT:

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

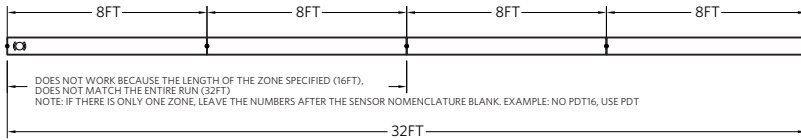


32FT MSL8 RUN WITH 1 SENSOR ALL ONE ZONE -- ADC

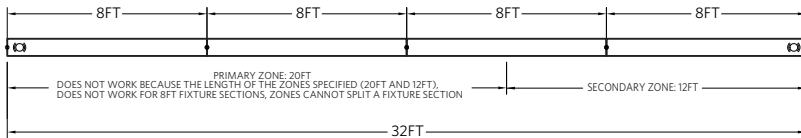


INCORRECT:

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
- One nLight or NLTAIR2 device per zone or per sensor, for multiple zones without sensors contact factory