Peerless® Lighting for People®

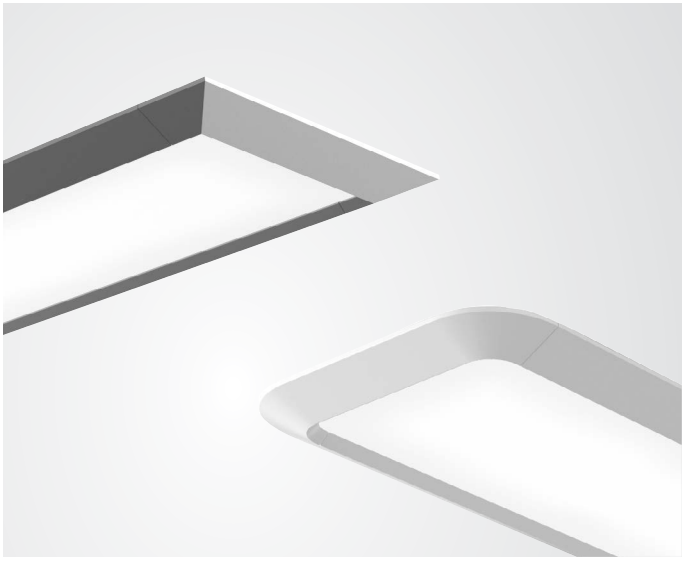
# Vellum LED

VMM9 | LED | I/D or Direct | Suspended

SPECIFICATIONS

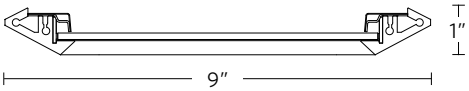
**Type:**

**Project:**

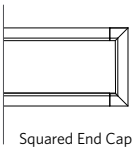


## DIMENSIONS

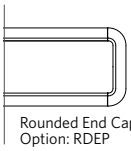
☐ **VMM9**




## DETAILS



Squared End Cap



Rounded End Cap
Option: RDEP

Optional sensor with SubtleView Integration™

## COMPANION LUMINAIRE(S)

**VMMRA**

**VMMQP**



**VMMSP**

## CUSTOMIZATION

Ask us about the following possibilities: Alternate section lengths, 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 106 lm/W
- Three distributions available: (see page 2)
- High performance batwing distribution using light technology guide
- Softshine®-engineered comfort optics
- Flicker-free dimming to dark (0.1%) powered by eldoLED® driver
- Integrated nLight® control module for system networking (optional)
- Integrated sensor for daylight dimming and/or occupancy detection (optional)
- Squared or rounded end caps
- White, black, painted aluminum or custom color

## LUMEN PACKAGES

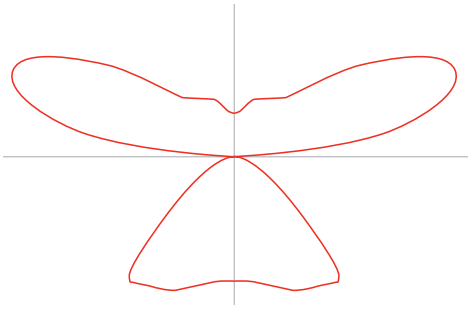
Based on 3500K. Additional color temperatures available.

| Indirect /Direct LED Ouput | ID1100LMF | ID1350LMF |
|---|---|---|
| Delivered Lumens Per Foot | 1095 | 1370 |
| Input Watts Per Foot | 9.5 | 12.8 |
| Lumens Per Watt | 115 | 106 |

*per 4′ section

## STANDARD DISTRIBUTION

60% Up | 40% Down



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PeerlessLighting.com
1- 800-705-SERV (7378) | TechSupport-Peerless@AcuityBrands.com

Rev. 04/05/24

## SPECIFICATIONS

**Housing**
Extruded aluminum housing.

**End Caps**
Die-cast aluminum end caps are mechanically attached with no exposed fasteners. Squared end caps standard. For rounded end caps, choose option RDEP.

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

**Luminaire Length**
4′ and 8′ lengths in a single section for nominal suspension spacing of 4′ and 8′. For total length, add 2 1/8″ for each end cap. Longer rows are comprised of starter, joiner and end sections.

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

**Optics**
Softshine® optical system consists of high performance acrylic lens and microstructure film.

**Embedded Sensor**
Optional sensor is embedded directly into the lens surface following Peerless' proprietary SubtleView Integration™ process.

**Remote Dimming Driver**
Remote eldoLED® driver (see page 3) provides "natural dimming" with smooth, continuous and flicker-free dimming to dark (0.1%). Syncing for controls: 2mA max. THD: < 20%. Insignificant inrush current at 120 and 277VAC. FCC Class A and B tested for EMI antd 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.

**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 eldoLED® dimming driver — is rated for 60,000 hours ($L_{80}$) at 25° C ambient temperature. Specify 120V, 277V or 347V. 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**
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

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# Vellum LED

VMM9 | LED | I/D or Direct | Suspended

**Type:**

**Project:**

A+ Capable options indicated by this color background.

## MODEL NUMBER

**Example:** VMM9 LLP 16FT MSL8 80CRI 35K ID1100LMF 60/40 DARK ZT SCT F1/24F C110

### Luminaire

**VMM9**

### Linear Length Plan

| | |
|---|---|
| **LLP** | Linear longest possible |
| **LSL** | Longest same length |

### Total Run Length

**__FT**

*Indicate Luminaire Row Length in 4' increments. Ex: 12FT*

### Maximum Section Length

| | |
|---|---|
| **MSL4** | 4' Section(s) |
| **MSL8** | 8' Section(s) |

### LED Color Rendering

| | |
|---|---|
| **80CRI** | 80+ CRI |
| **90CRI*** | 90+ CRI |

**Longer lead times- consult factory*

### LED Color Temperature

| | |
|---|---|
| **30K** | 3000K |
| **35K** | 3500K |
| **40K** | 4000K |

### Indirect/Direct LED Ouput

| | |
|---|---|
| **ID1100LMF** | 1100 Nominal lumens per foot |
| **ID1350LMF** | 1350 Nominal lumens per foot |

### Indirect/Direct Ratio

| | |
|---|---|
| **60/40** | Std. 60% up; 40% down |
| **20/80** | 20%up; 80% down |
| **0/100** | 0%up; 100% down |

*Nominal Distribution. Refer to photometric tests for exact.*

### Minimum Dimming Level

| | |
|---|---|
| **DARK** | Constant current, dimming to < 1% |

### Control Input

| | |
|---|---|
| **ZT*** | 0-10V |
| **NLIGHT**** | nLight enabled |
| **DALI***** | DALI |

**0-10V will use linear dimming curve*

*** Will use logarithmic dimming curve*

****Not available with sensors*

****Will use logarithmic dimming curve*

### Voltage

| | |
|---|---|
| **120** | 120V |
| **277** | 277V |
| **347** | 347V |
| **MVOLT** | 120V-277V |

### Wiring Option

| | |
|---|---|
| **SCT** | Single circuit |

### Emergency Options

| | |
|---|---|
| **(Blank)** | None |
| **1EC** | (1) Emergency circuit module |
| **2EC** | (2) Emergency circuit module |
| **__EC** | ___ Emergency circuit modules |
| **__E10WLCP** | ___10 Watt battery pack, constant power with self diagnostics. CEC Certified |

*Emergency type is installed in last 4' of luminaire sections. Separate feed required. Not available for CSA or 347V*

### Primary Sensor

| | |
|---|---|
| **(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 |

**Available with ZT or nLight only*

### Secondary Sensor

| | |
|---|---|
| **(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 |

**Available with ZT or nLight only*

### Mounting Type/

| | |
|---|---|
| **F1/** | T-bar ceiling (universal mounting bracket) |
| **F2/*** | Hard ceiling (horizontal J-box) |

** F2 not available with E10W*

***F1 Mount uses standard 3 1/2" canopy on both feed and support*

****F2 Mount uses standard 5" canopy on both feed and support*

***** All feed cords, cord managers and canopies are standard white. They are not painted to match fixture color.*

### Overall Suspension

| | |
|---|---|
| **12F** | 12" fixed |
| **18F** | 18" fixed |
| **24F** | 24" fixed |
| **36F** | 36" fixed |
| **48F** | 48" fixed |
| **72F** | 72" fixed |
| **XX** | xx" |

*Measured from ceiling to bottom of luminaire.*

### Color

| | |
|---|---|
| **C041** | White white (low gloss) |
| **C110** | Painted Aluminum (low gloss) |
| **C201** | Black (low gloss) |
| **C099** | Custom color |
| **RALTBD*** | Ral Paint finishes |

*RALTBD for pricing only. replace with applicable RAL call out when ready to order. See the RAL BROCHURE for available options

### Options

| | |
|---|---|
| **CSA**** | Manufactured to Canadian Standards |
| **DU*** | Dust cover |
| **GLR** | Fast blow |
| **GMF** | Slow blow |
| **RDEP** | Rounded end cap |

**DU is not available with 0/100 VDR*

***When chosen with EC entire section must be EC. EX: MSL8 section would need to be 2EC for entire section.*



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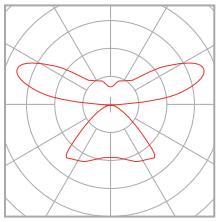
VMM9 | LED | I/D or Direct | Suspended

**Type:**

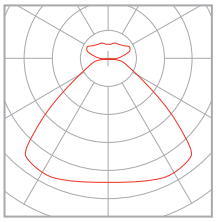
**Project:**

## PHOTOMETRICS



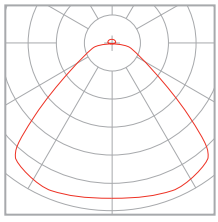
**ID1350LMF 80CRI 35K**
106 lm/W
5477 delivered lumens
per 4′ section

60% up / 40% down



**ID1350LMF 20/80 80CRI 35K**
103 lm/W
5285 delivered lumens
per 4′ section

20% up / 80% down



**ID1350LMF 0/100 80CRI 35K**
100 lm/W
5167 delivered lumens
per 4′ section

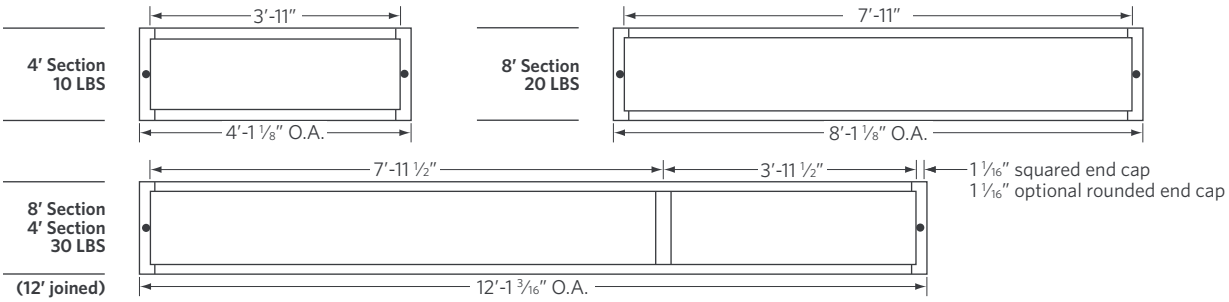
4% up / 96% down

## WEIGHTS & SUPPORT SPACING

Suspension spacing equals section length. Default location shown.

**STANDARD SECTIONS**

**Key:**
● Support or feed location




**VIEW FROM TOP**

## 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 |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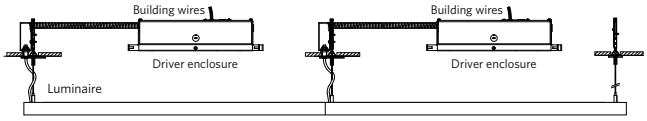
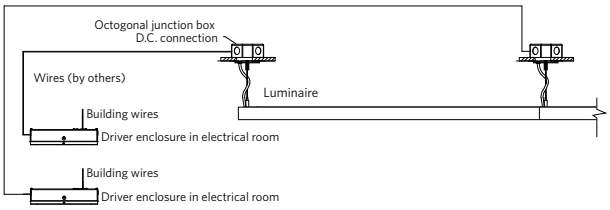
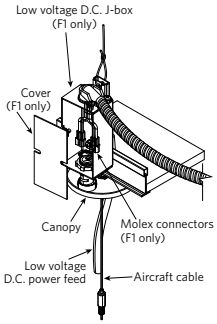
## REMOTE DRIVER MOUNTING

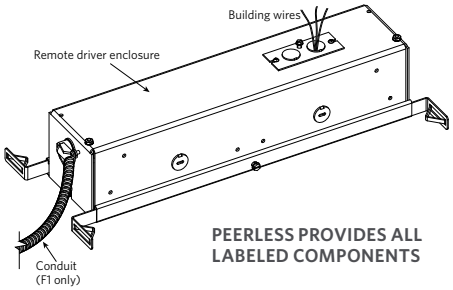
**F1**
**T-Bar Ceiling**




**F2**
**Hard Surface Ceiling**




**PEERLESS PROVIDES ALL LABELED COMPONENTS**

The driver is housed in a remote-mounted, aluminum enclosure. In T-bar ceiling installations, the driver enclosure attaches to the grid bars with provided hanging brackets and clips. For hard ceiling installations, the driver enclosure resides inside an electrical room and can be mounted to a rack or wall with screws (by others), if necessary.

NOTE: Every 4′ and 8′ luminaire section comes with (1) driver enclosure and each section has (1) low voltage D.C. power feed leading out of the luminaire. See installation instructions for further details.

## MOST COMMON MOUNTING TYPES AND OPTIONS

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

**Mounting Type**

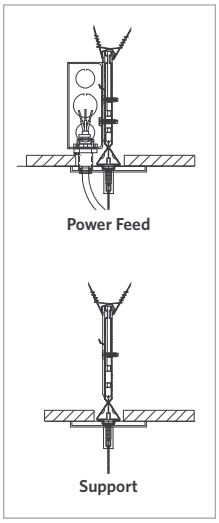
**F1/** For use with most T-Bar and screw slot grid ceilings. Designed for on-grid and off-grid applications.

**F2/** For use with recessed or surface mount horizontal J-box applications.

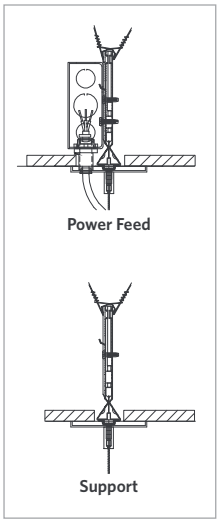
*For more detailed mounting drawings and information, see [peerlesslighting.acuitybrands.com/resources](peerlesslighting.acuitybrands.com/resources)*

**☑ Indicates mounting options available with this luminaire.**

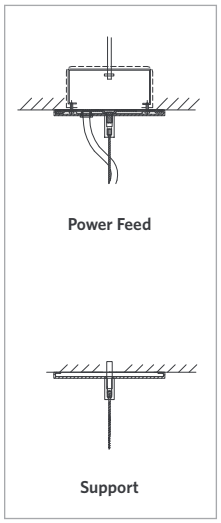
**☑ F1/**



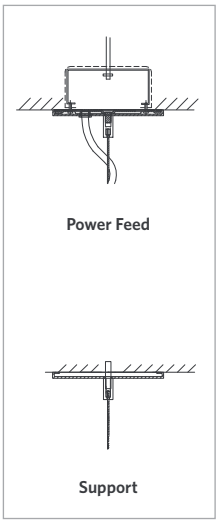

**☐ F1/MCS**




**☑ F2/**




**☐ F2/MCS**

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For more information about sensor and networking options, download the controls guide at PeerlessLighting.com/ControlsGuide

## INTEGRATED SENSOR OPTIONS

| Control Input | Integrated Sensor | Daylight Dimming | Daylight Dimming and/or Occupancy Detection | nLight Wired Networking | Link to Spec Sheet |
|---|---|---|---|---|---|
| NLIGHT | ADC | X | | X | nES-ADCX |
| NLIGHT | PDT | | X | X | nES-7 |
| ZT | ADC | X | | | nES-ADCX |
| ZT | PDT | | X | | nES-7 |

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@PeerlessLighting.com.

nES ADCX

nES PDT 7

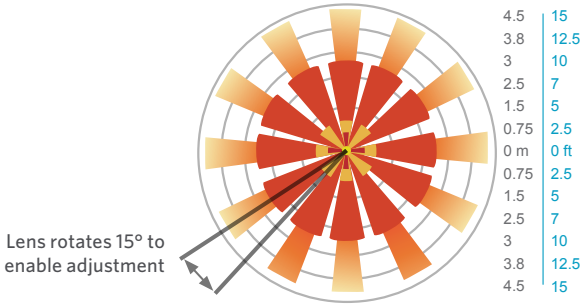
## OCCUPANCY DETECTION COVERAGE

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

nPODM DX WH | nPODM 2P DX WH | nPODM 4P DX WH

SensorSwitch.com/DataSheets/nPODM.pdf

nPODM 2L WH

SensorSwitch.com/DataSheets/nPODM-xL.pdf

nPOD GFX WH

SensorSwitch.com/DataSheets/nPOD-GFX.pdf

## eldoLED COMPATIBILITY

Additional control options with eldoLED 0-10V driver(s).

PeerlessLighting.com/eldoLED-compatibility

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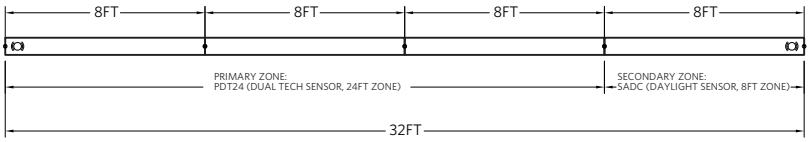
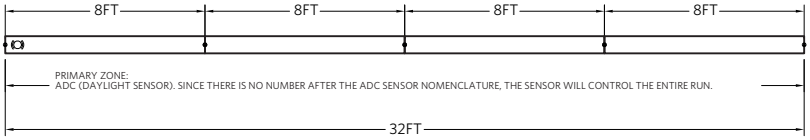
## INTEGRATED SENSOR LAYOUT

**CORRECT:**

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

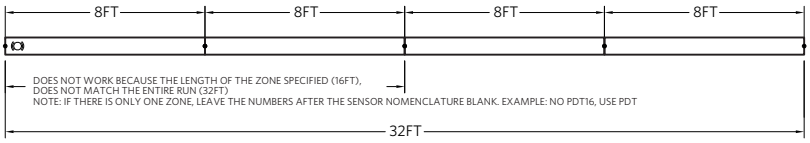



32FT MSL8 RUN WITH 1 SENSOR ALL ONE ZONE -- ADC

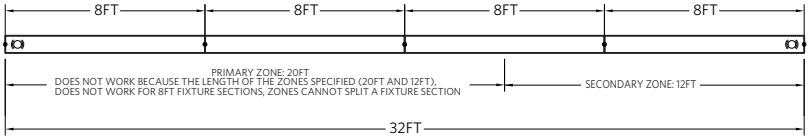



**INCORRECT:**

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

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