Peerless® Lighting for People®

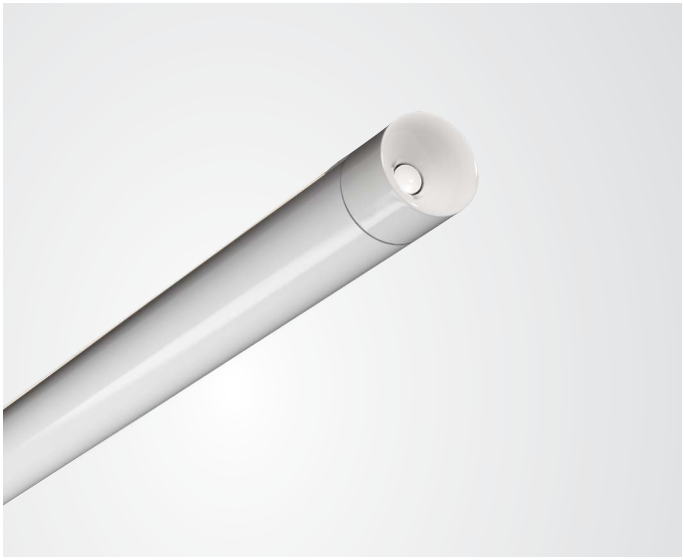
Round 2 LED

RDM1 | LED | Indirect | Suspended

SPECIFICATIONS

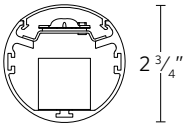
Type:

Project:



DIMENSIONS

☐ **RDM1**



DETAILS

End Cap

COMPANION LUMINAIRE(S)

RDMW
Round 2 Wall-Wash

RDW1
Round 2 Wall

CUSTOMIZATION

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

HIGHLIGHTS

- Peerless 360˚ Total System Integration features 5-year limited warranty by Acuity Brands covering all components and construction
- 4′ and 8′ sections
- Up to 67 lm/W
- Two lumen packages
- High performance batwing distribution using injection molded optic
- 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)
- White, painted aluminum or custom color
- LED Lighting Facts® partner

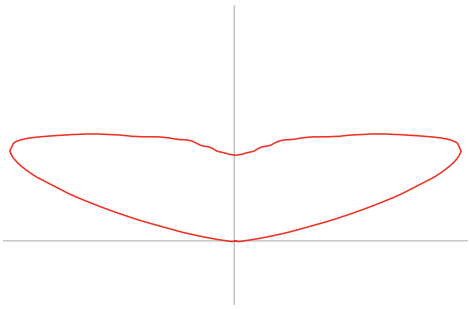
LUMEN PACKAGES

Based on 3500K. Additional color temperatures available.

Indirect LED Ouput	I400LMF	I700LMF
Delivered Lumens per foot	499	946
Input Watts	7.5	14.5
Lumens Per Watt	67	65

DISTRIBUTION

100% Up



AcuityBrands.
© 2014-2024 Acuity Brands Lighting, Inc. All Rights Reserved. "Peerless" is a registered trademark of Acuity Brands Lighting. Products and technologies in this document may be covered by one or more U.S. Patents and Patents Pending. NOTE: Specifications subject to change without notice.

SPECIFICATIONS

Housing
Extruded aluminum housing has diameter of 2 3/4".

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

Color
Color for housing and end caps is gloss white 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 2″ 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
Optical system consists of injection-molded primary optic, clear and white co-extruded acrylic lens and metal reflector.

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
For DALI driver details go to: PeerlessLighting.com/560L

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 dimming driver — is rated for 60,000 hours (L_{80}) 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
Ambient operating temperature between 0° C and 25° C. Suitable for damp location.

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

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.

AcuityBrands.
© 2014-2024 Acuity Brands Lighting, Inc. All Rights Reserved. "Peerless" is a registered trademark of Acuity Brands Lighting. Products and technologies in this document may be covered by one or more U.S. Patents and Patents Pending. NOTE: Specifications subject to change without notice.

Peerless® Lighting for People®

Round 2 LED

RDM1 | LED | Indirect | Suspended

Type:

Project:

MODEL NUMBER

Example: RDM1 LLP 16FT MSL8 80CRI 35K I700LMF DARK ZT 120 SCT F1/24A C110

Luminaire

RDM1

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

LED Color Temperature

30K 3000K

35K 3500K

40K 4000K

Indirect LED Ouput

I400LMF 400 nominal indirect lumens per foot

I700LMF 700 nominal indirect lumens per foot

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

Wiring Option

SCT Single circuit

Emergency Options

(Blank) None

1EC (1) Emergency circuit module

2EC (2) Emergency circuit module

__EC ___ Emergency circuit modules

Emergency type is installed in last 4' of luminaire sections. Separate feed required.

4FT MSL4 Individual fixture with EC Consult factory

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)

F1A/ T-bar ceiling (UMB with integrated J-box)

F2/ Hard ceiling (horizontal J-box)

**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 managers and canopies are standard white. They are not painted to match fixture color.*

Overall Suspension

24A 24" adjustable

36A 36" adjustable

48A 48" adjustable

72A 72" adjustable

96A 96" adjustable

144A 144" adjustable

192A 192" adjustable

240A 240" adjustable

Overall suspension is measured from ceiling to bottom of luminaire

Color

C032 Gloss white

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*

***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.*

Options

BLK* Black cord and canopy

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

**Not available with NLIGHT*

***CSA with EC consult factory*

****MCS & OJB cannot be chosen together*

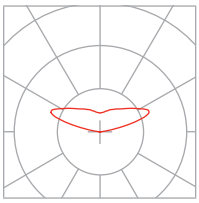
*****MCSJ Available with F2 Mount only*

******When SLP is chosen need to choose F2 mount and OJB*

AcuityBrands.

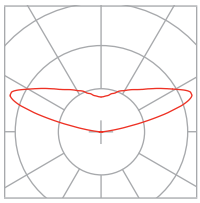
© 2014-2024 Acuity Brands Lighting, Inc. All Rights Reserved. "Peerless" is a registered trademark of Acuity Brands Lighting. Products and technologies in this document may be covered by one or more U.S. Patents and Patents Pending. NOTE: Specifications subject to change without notice.

PHOTOMETRICS



I400LMF 80CRI 35K
65 lumens per watt
1996 delivered lumens
per 4′ section

100.0% up



I700LMF 80CRI 35K
65 lumens per watt
3785 delivered lumens
per 4′ section

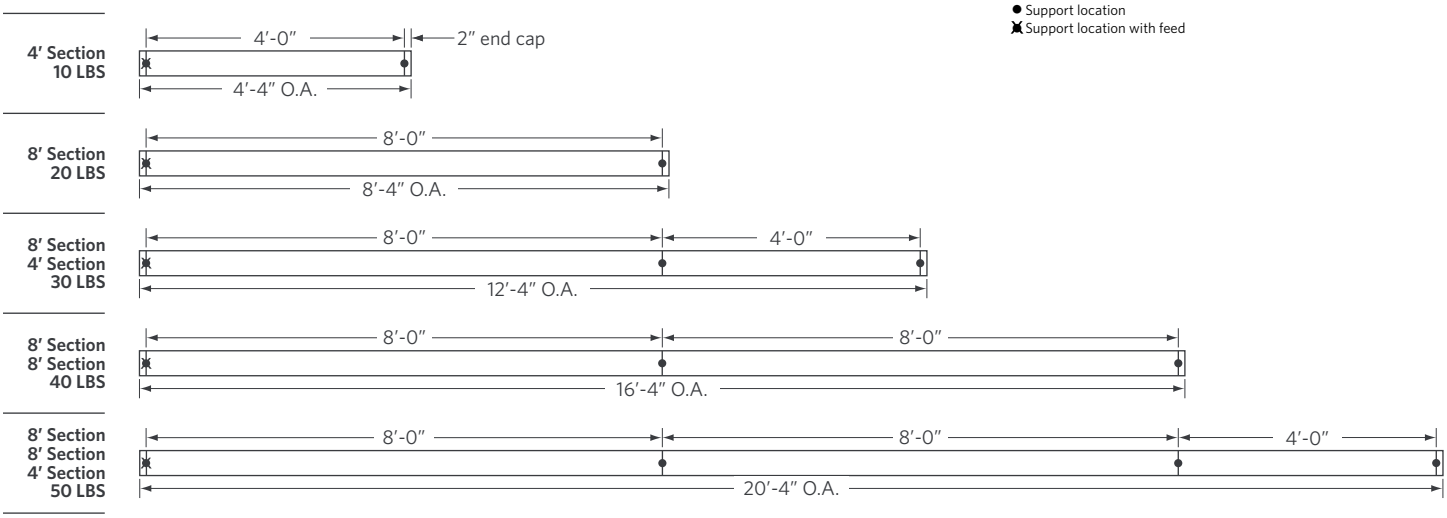
100.0% up

WEIGHTS & SUPPORT SPACING

Suspension spacing equals section length. Default location shown.

STANDARD SECTIONS

Key:
● Support location
✖ Support location with feed



PLAN VIEW

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

AcuityBrands.
© 2014-2024 Acuity Brands Lighting, Inc. All Rights Reserved. "Peerless" is a registered trademark of Acuity Brands Lighting. Products and technologies in this document may be covered by one or more U.S. Patents and Patents Pending. NOTE: Specifications subject to change without notice.

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.

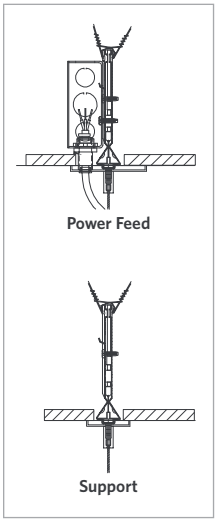
OJB Offset J-box at feed.

SLP OJB Sloped ceiling couplers and offset J-box option at feed.

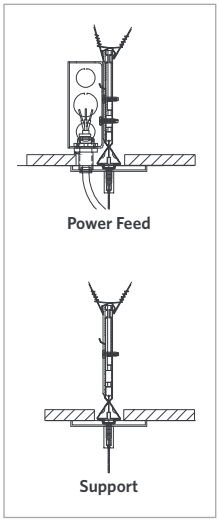
For more detailed mounting drawings and information, see peerlesslighting.acuitybrands.com/resources/product-resources

☑ Indicates mounting options available with this luminaire.

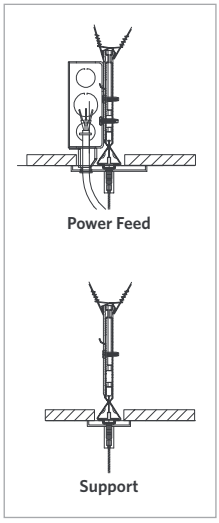
☑ F1/



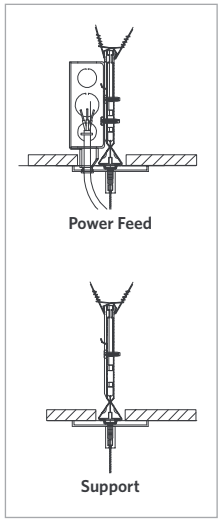
☑ F1/MCS



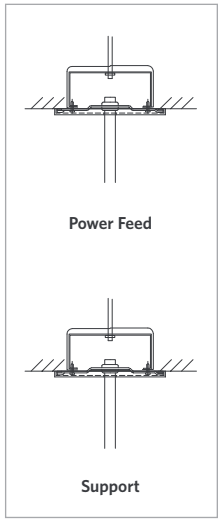
☑ F1A/



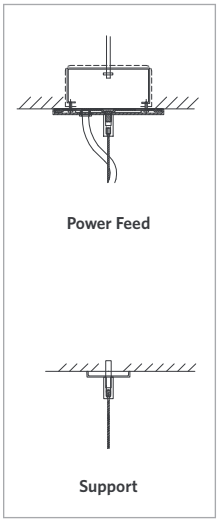
☑ F1A/MCS



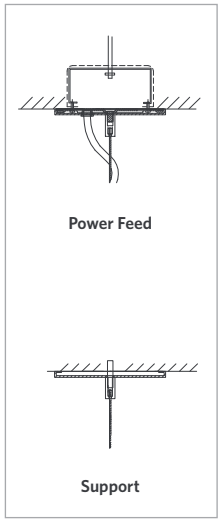
☐ F3/



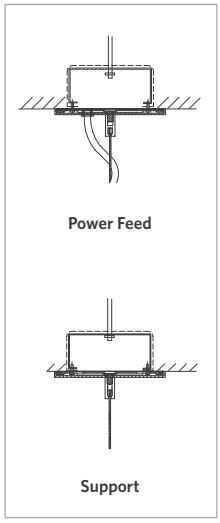
☑ F2/



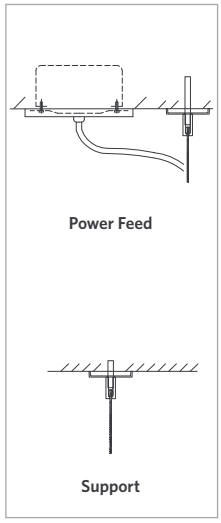
☑ F2/MCS



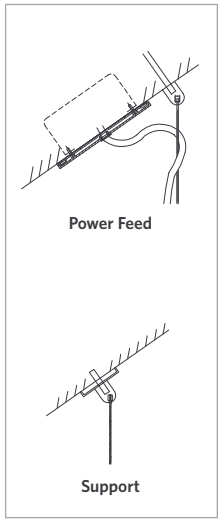
☑ F2/MCSJ



☑ F2/OJB



☑ F2/SLP OJB



AcuityBrands.
© 2014-2024 Acuity Brands Lighting, Inc. All Rights Reserved. "Peerless" is a registered trademark of Acuity Brands Lighting. Products and technologies in this document may be covered by one or more U.S. Patents and Patents Pending. NOTE: Specifications subject to change without notice.

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

nES ADCX

nES PDT 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-Peerless@AcuityBrands.com.

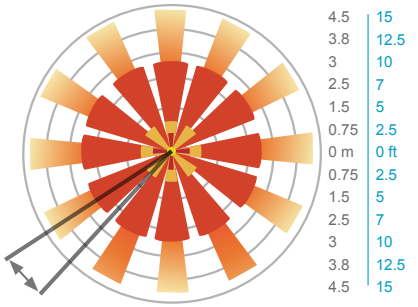
OCCUPANCY DETECTION COVERAGE

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

Sensor Switch.com/DataSheets/nPODMA.PDF

nPOD UNITOUCH WH

Sensor Switch.com/DataSheets/nPOD Unitouch.PDF

eldoLED COMPATIBILITY

For compatible dimmers & switches please see the EldoLED compatibility document

PeerlessLighting.com/eldoLED-compatibility

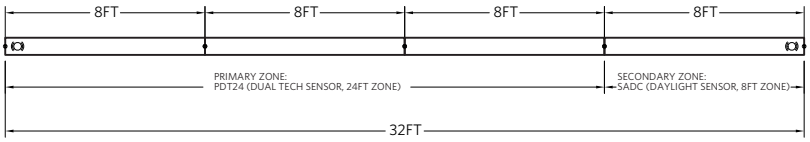
AcuityBrands.

© 2014-2024 Acuity Brands Lighting, Inc. All Rights Reserved. "Peerless" is a registered trademark of Acuity Brands Lighting. Products and technologies in this document may be covered by one or more U.S. Patents and Patents Pending. NOTE: Specifications subject to change without notice.

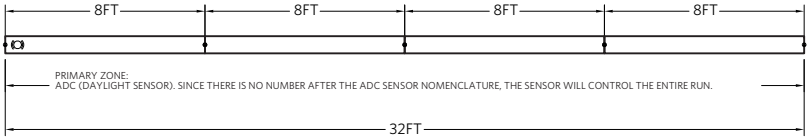
INTEGRATED SENSOR LAYOUT

CORRECT:

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

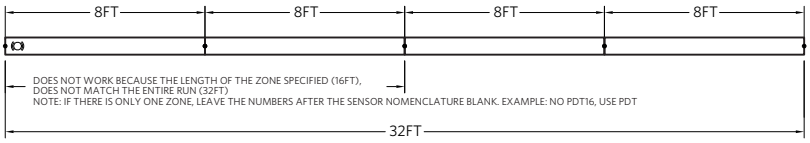


32FT MSL8 RUN WITH 1 SENSOR ALL ONE ZONE -- ADC

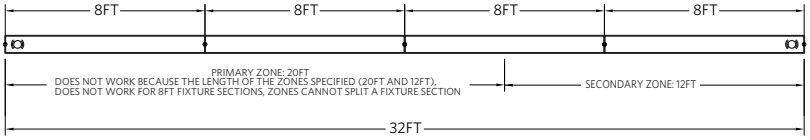


INCORRECT:

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

AcuityBrands.
© 2014-2024 Acuity Brands Lighting, Inc. All Rights Reserved. "Peerless" is a registered trademark of Acuity Brands Lighting. Products and technologies in this document may be covered by one or more U.S. Patents and Patents Pending. NOTE: Specifications subject to change without notice.