



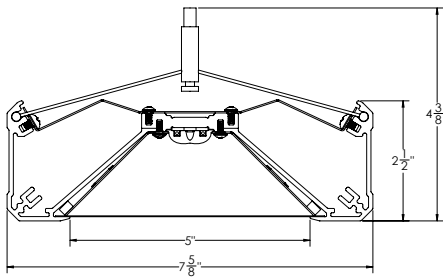
HIGHLIGHTS

- Mainstream Dynamic Tunable White with nTune™ Technology
- Integrated nLight® for system networking
- 4', 6' and 8' Sections
- Up-to 104ft of seamless uninterrupted lens
- 12-24 Inch Adjustable mounting positioning
- Up to 109 lm/W
- Multiple outputs available
- Softshine®-engineered comfort optics
- Flicker-free dimming to dark
- Integrated sensor for daylight dimming and/or occupancy detection (optional)
- Square or contoured end caps
- White, black, aluminum or custom color

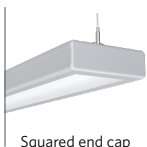


DIMENSIONS

PRPD



DETAILS



Squared end cap



Contoured end cap

LUMEN PACKAGES

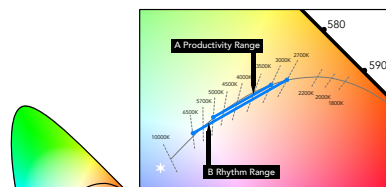
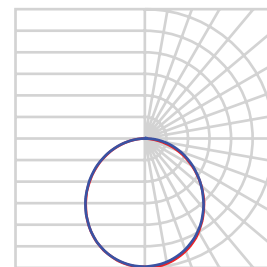
Based on 80CRI. Additional distributions and color temperatures available.

Range	Lumen Output	300LMF	600LMF	1100LMF	1200LMF
PROR @30K	Direct Delivered Lumens Per Foot	312	643	1201	1310
PROR @30K	Total Delivered Lumens Per Foot	312	643	1201	1310
PROR @30K	Input Watts Per Foot	3.1	5.8	12	13.5
PROR @30K	Lumens Per Watt	100	110	100	97
RHYR @27K	Direct Delivered Lumens Per Foot	303	623	1164	1269
RHYR @27K	Total Delivered Lumens Per Foot	303	623	1164	1269
RHYR @27K	Input Watts Per Foot	3.1	5.8	12	13.5
RHYR @27K	Lumens Per Watt	97	106	97	94

*Please pull the appropriate IES file for the hard data number for your luminaire selection

DISTRIBUTION

80CRI TUWH PROR @30K 300LMF



A Productivity Range 3000K to 5000K

B Rhythm Range 2700K to 6500K



MAINSTREAM DYNAMIC
BY ACUITY BRANDS®

MODEL NUMBER Example: PRPD LLP 24FT MSL8 80CRI TUWH PROR 1400LMF DARK NLT 120 SCT F1/48A C210 SQEP

Luminaire	Linear Length Plan	Total Run Length	Maximum Section Length	LED Color Rendering	Dyanmic Feature	Dynamic Range
PRPD	LLP Linear longest possible LSL Longest same length <i>*For more information on linear plans, see page 6</i>	__FT <i>Indicate luminaire row length in 2' increments with minimum of 4FT</i> <i>*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</i> <i>**Please consult factory for any continuous run length that exceeds 104FT</i>	MSL4 4' Section(s) MSL6 6' Section(s) MSL8 8' Section(s)	80CRI 80+CRI 90CRI 90+CRI	TUWH Tunable White	PROR 3000K-5000K RHYR 2700K-6500K

Direct Output	Minimum Dimming Level	Control Interface	Voltage	Wiring Option
300LMF 300 Nominal lumens Per Foot 600LMF 600 Nominal lumens Per Foot 1200LMF 1200 Nominal lumens Per Foot 1300LMF 1300 Nominal lumens Per Foot <i>*Available in 100 lumen increments between min of 300LMF & max of 1300LMF</i> <i>**Nominal distribution. Refer to photometric tests for exact distribution.</i>	DARK Constant current, dimming to < 1%	NLT¹ nLight nTune interface <i>1. Will use Logarithmic dimming curve</i> <i>*For additional ordering assistance consult "Intelligent Luminaire Technology Guide" on page 10</i>	120 120V 277 277V MVOLT 120V-277V	SCT Single circuit

Emergency Options	Primary Sensor	Secondary Sensor
(Blank) No Emergency circuit module or Battery Power pack 1EC¹ (1) emergency circuit module 2EC¹ (2) emergency circuit module __EC¹ ___ emergency circuit modules _E10WLCP² _10 Watt battery pack, constant power with self diagnostics. CEC certified <i>1. EC not available with combination of 4FT MSL4 & sensor. EC not available with CSA.</i> <i>2. A.C driver and battery pack must be on the same branch circuit</i> <i>*Emergency type is installed in last half of the last luminaire sections. Separate feed required.</i>	(blank) No factory-installed, integrated sensor ADC_ Daylight Dimming Sensor APDT_ Dual technology occupancy sensor and daylight dimming sensor PDT_ Dual technology occupancy sensor. PIR & microphonics sensor	(blank) No factory-installed, integrated sensor SADC_ Daylight Dimming Sensor SAPDT_ Dual technology occupancy sensor and daylight dimming sensor SPDT_ Dual technology occupancy sensor. PIR & microphonics sensor

Mounting Type/	Overall Suspension	Color	End Caps
F1¹/¹,³ T-bar ceiling (universal mounting bracket) F1A¹/¹,³ T-bar ceiling (UMB with integrated J-box) F2²/²,³ Hard ceiling (horizontal J-box) <i>1. F1 & F1A Mount uses standard 3 1/2" canopy on feed and 2" canopy on support</i> <i>2. F2 Mount uses standard 5" canopy on feed and 2" canopy on support</i> <i>3. All feed cords, cord managers and canopies are standard white. They are not painted to match fixture color</i>	24A 24" adjustable 48A 48" adjustable 72A 72" adjustable 96A 96" adjustable 144A 144" adjustable 240A 240" adjustable <i>*Measured from ceiling to bottom of luminaire.</i>	C110 Painted aluminum (low gloss) C210 White white (fine textured) C202 Black (fine textured) C099¹ Custom color RALTBDB² RAL Paint finishes <i>1. C099 for pricing only. Custom color chip and requested finish needs to be sent in to your Customer Care Rep and matched up with our paint department and customer approved before order is entered. Standard finish choice is Textured (C099T)</i> <i>2. RALTBDB for pricing only. Replace with applicable RAL number and finish when ready to order. See the RAL BROCHURE for available color options. Standard finish choice is Textured (RALxxxxT)</i>	SQEP Square End caps CTEP Contoured End caps

Options	
CP Chicago Plenum (available with F1A only) CSA¹ Manufactured to Canadian standards ELH² Emergency through-wiring w/separate neutrals-single EM feed at opposite end of normal ELS² Emergency through-wiring w/separate neutrals-single EM feed at same end of normal GLR Fast blow GMF Slow blow <i>1. CSA not available with EC</i> <i>2. ELH & ELS2 not available with CSA</i>	MCS³ Matching canopy at support for aesthetics MCSJ³,⁴ Matching canopy for J-box mounting at non-power feed support locations OJB³,⁵ Offset J-box at feed SLP⁶ Sloped ceiling <i>3. MCS or MCSJ cannot be chosen with OJB</i> <i>4. MCSJ available with F2 mount only</i> <i>5. OJB available with F2 Mount only</i> <i>6. When SLP is chosen need to choose F2 Mount and OJB</i>

SPECIFICATIONS

Housing

Nominal 7 5/8" x 2 1/2" rectangular extruded aluminum housing.

End Caps

Die-cast end caps are mechanically attached with no exposed fasteners. Choose between square and contoured end caps options.

Color

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

Luminaire Length

Luminaire is available in 4', 6' and 8' sections. Using internal joiners, any section combination can be joined to form longer rows with 2ft incremental lengths. Add 3.85" per end cap for sculpted end caps; Add 1.30" per end cap for square end caps.

Source

Multiple LED lumen packages, with end points, falling within 2.5 MacAdam ellipses.

Optics

Softshine® optical system consists of high performance lens, diffusers and metal reflectors.

Dimming 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.

Mainstream Dynamic with nTune Technology:

This luminaire is enabled with nTune technology, meaning it has the ability to communicate digitally over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of timeclock control, remote status monitoring, and control via SensorView software.

Controls and System Networking Options

Wired networking via Cat-5e. For daylight dimming and/or dual technology occupancy detection, see Page 5 for integrated sensor options. Included Cat-5e cable; connect continuous sections together. Minimal cable may be visible at joining sections from above fixture.

One control module per 4' section.

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 50,000 hours (L80/50,000) at 25° C ambient temperature.

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.

Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. 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.

Fixture Weights

Approximately 5-6 lbs per foot less packaging for base fixture

A+ Capable Luminaire

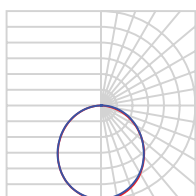
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested to meet the Acuity Brand's specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

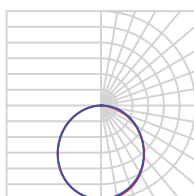
To learn more about Acuity A+ standards, specifications, and testing visit www.acuitybrands.com/aplus.

*See ordering tree for details

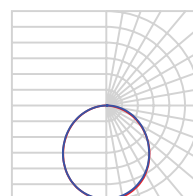
FIXTURE PERFORMANCE DATA



Test Report: ISF 221281P404
PRPD 4FT 80CRI TUWH PROR
@30K 500LMF
108 Lm/W
537 Delivered lumens per foot



Test Report: ISF 221281P407
PRPD 4FT 80CRI TUWH PROR
@30K 800LMF
97 Lm/W
844 Delivered lumens per foot



Test Report: ISF 221281P411
PRPD 4FT 80CRI TUWH PROR
@30K 1200LMF
97 Lm/W
1319 Delivered lumens per foot

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.

PROJECTED LED LUMEN MAINTENANCE

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1	0.95	0.91	0.83

CCT SCALING CHART

DYNAMIC	CCT	CRI	MULTIPLIER
PROR	30K	80CRI	1
	40K	80CRI	0.94
	50K	80CRI	1.01
	30K	90CRI	0.85
	40K	90CRI	0.81
	50K	90CRI	0.86
RHYR	27K	80CRI	1
	46K	80CRI	0.95
	65K	80CRI	0.98
	27K	90CRI	0.85
	46K	90CRI	0.81
	65K	90CRI	0.84

*Lumen scaling charts can be used to approximate the lumen values at different Kelvin temperatures, color rendering indices, optics or shielding. Example: Calculating the lumen change from PRPD 4FT 80CRI TUWH PROR @ 27K 600LMF to 80CRI 40K = 2592.6 Lumens x 1.01 multiplier = 2618.5 Lumens

R9 VALUES CHART

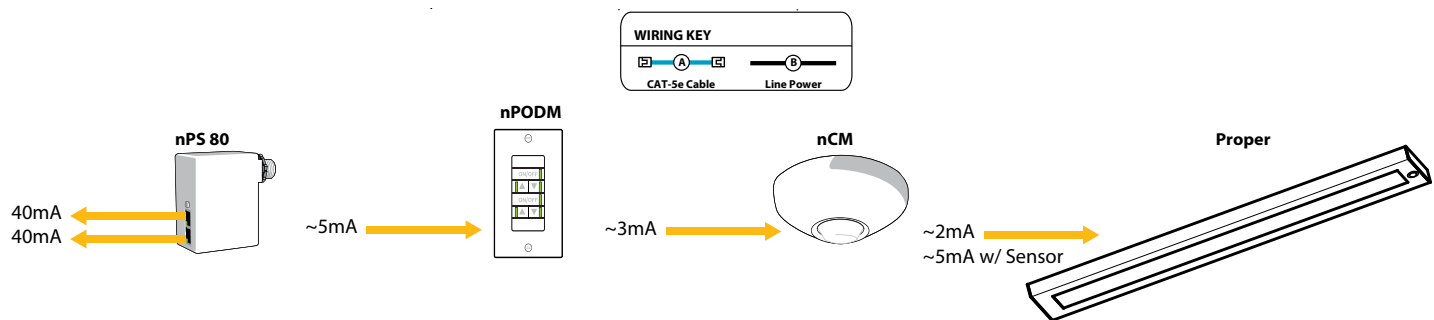
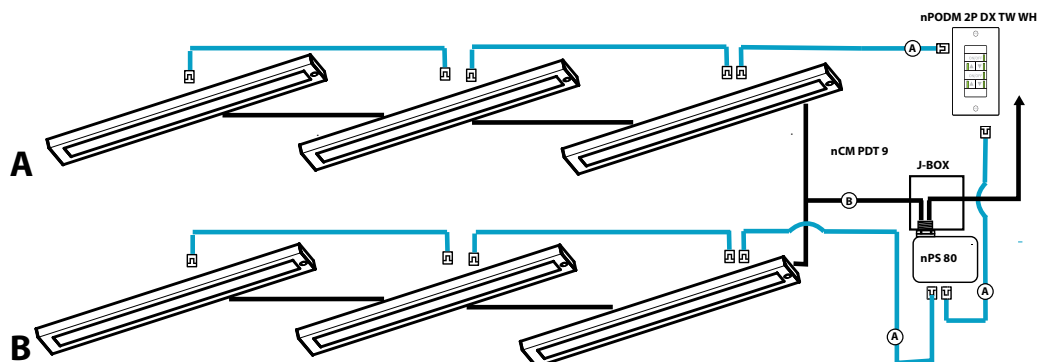
R9 Values			
PROR	30K	90CRI	54.59
	40K	90CRI	61.65
	50K	90CRI	56.2
RHYR	27K	90CRI	57.04
	46K	90CRI	14.14
	65K	90CRI	63.39

UGR CHART

Direct Lumen Package	UGR (70% 50% 20% reflectance using a 4H x 8H room size)	
	Crosswise	Endwise
300LMF	20.5	19.7
400LMF	21.8	21
500LMF	22.5	21.7
600LMF	22.8	22
700LMF	23.7	22.9
800LMF	23.9	23.1
900LMF	24.1	23.3
1000LMF	24.5	23.7
1100LMF	25	24.2
1200LMF	25.3	24.5
1300LMF	25.8	25
1400LMF	26	25.2
1500LMF	25.9	25.1

*UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR" and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application.

**Click here for more information on UGR



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

LINEAR PLAN:

PEERLESS offers the ability to provide a continuous run plan to suit your requirements by optionally offering two 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, 8FT segments and 1, 4FT Segment at the end of the run.

LLP	8 FT	8 FT	4FT
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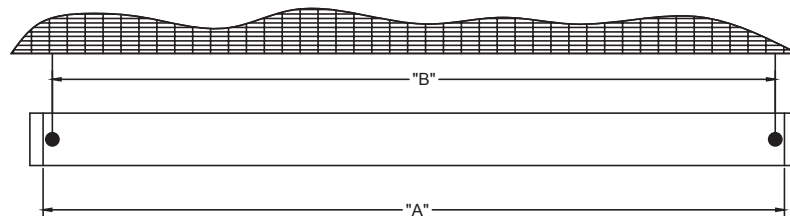
LSL- Linear Same Length:

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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WEIGHTS & SUPPORT SPACING

Suspension spacing equals section length. Default location shown.



LEGEND:

A - Luminaire Length (excluding end caps on both ends).

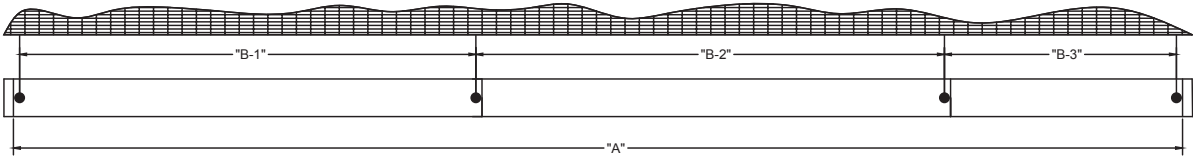
B - Luminaire Suspension Points center-to-center distance

INDIVIDUAL FIXTURES (MOUNTING)					
ORDERED LENGTH	"A"	"B"	STANDARD END CAP* (*including end caps on both sides)	CONTOURED END CAP* (*including end caps on both sides)	APPROX. WEIGHT
4FT	4'- 0" [1220 mm]	3'- 11 3/8" [1204 mm]	2 1/2" [64 mm]	7 3/4" [197 mm]	21-24 lbs. [10-11 kg]
6FT	6'- 0" [1828 mm]	5'- 11 3/8" [1813 mm]	2 1/2" [64 mm]	7 3/4" [197 mm]	31-36 lbs. [14-16 kg]
8FT	8'- 0" [2438 mm]	7'- 11 3/8" [2423 mm]	2 1/2" [64 mm]	7 3/4" [197 mm]	41-48 lbs. [19-22 kg]

* See next page for more Weights & Support Spacing layouts.

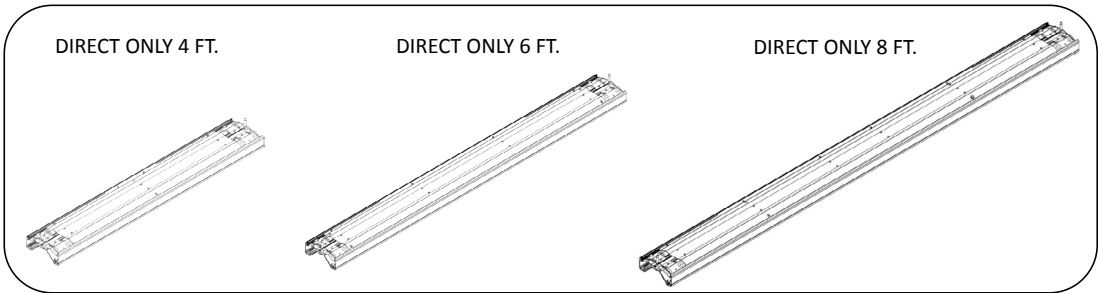
WEIGHTS & SUPPORT SPACING (Continued)

Suspension spacing equals section length. Default location shown.

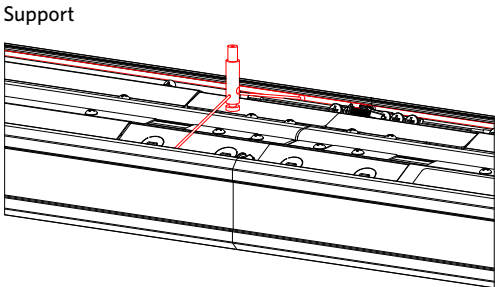
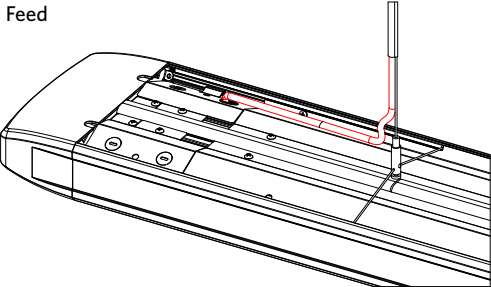


LEGEND:
A - Luminaire Length (excluding end caps on both ends).
B - Luminaire Suspension Points center-to-center distance

RUN LAYOUT (MOUNTING)							
ORDERED LENGTH	"A"	"B-1"	"B-2"	"B-3"	STANDARD END CAP* (*Including end caps on both sides)	CONTOURED END CAP* (*Including end caps on both sides)	APPROX. WEIGHT
4' SECTION 4' SECTION	8'- 0" [2438 mm]	3'- 11 3/8" [1204 mm]	4'- 0" [1220 mm]	N/A	2 1/2" [64 mm]	7 3/4" [197 mm]	42-48 lbs. [19-22 kg]
6' SECTION 4' SECTION	10'- 0" [3048 mm]	5'- 11 3/8" [1813 mm]	4'- 0" [1220 mm]	N/A	2 1/2" [64 mm]	7 3/4" [197 mm]	52-60 lbs. [24-27 kg]
8' SECTION 4' SECTION	12'- 0" [3657 mm]	7'- 11 3/8" [2423 mm]	4'- 0" [1220 mm]	N/A	2 1/2" [64 mm]	7 3/4" [197 mm]	62-72 lbs. [28-33 kg]
6' SECTION 6' SECTION	12'- 0" [3657 mm]	5'- 11 3/8" [1813 mm]	6'- 0" [1828 mm]	N/A	2 1/2" [64 mm]	7 3/4" [197 mm]	62-72 lbs. [28-33 kg]
8' SECTION 6' SECTION	14'- 0" [4267 mm]	7'- 11 3/8" [2423 mm]	6'- 0" [1828 mm]	N/A	2 1/2" [64 mm]	7 3/4" [197 mm]	72-84 lbs. [33-38 kg]
8' SECTION 8' SECTION	16'- 0" [4877 mm]	7'- 11 3/8" [2423 mm]	8'- 0" [2438 mm]	N/A	2 1/2" [64 mm]	7 3/4" [197 mm]	82-96 lbs. [37-44 kg]
8' SECTION 8' SECTION 4' SECTION	20'- 0" [6096 mm]	7'- 11 3/8" [2423 mm]	8'- 0" [2438 mm]	4'- 0" [1220 mm]	2 1/2" [64 mm]	7 3/4" [197 mm]	103-120 lbs. [47-55 kg]



VARIABLE MOUNTING POINTS



Note:
Proper allows the installer the ability to avoid obstructions with up to 24" of travel between fixtures, and 12" of travel at the beginning and end of the run. If adjusting the feed location, please ensure that you have 12" of extra cord length to accommodate your drop distance.

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

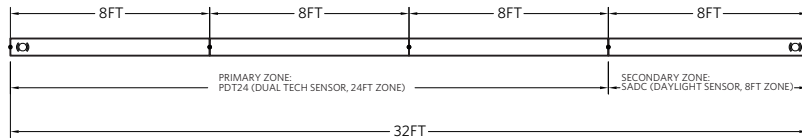
☒ Indicates mounting options available with this luminaire.

☒ F1/	☒ F1/MCS	☒ F1A/	☒ F1A/MCS	☐ F3/
Power Feed Support	Power Feed Support	Power Feed Support	Power Feed Support	Power Feed Support
☒ F2/	☒ F2/MCS	☒ F2/MCSJ	☒ F2/OJB	☒ F2/SLP OJB
Power Feed Support	Power Feed Support	Power Feed Support	Power Feed Support	Power Feed Support

INTEGRATED SENSOR LAYOUT

CORRECT:

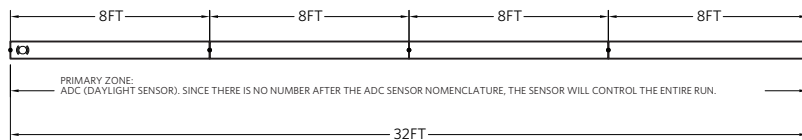
32FT MSL8 RUN WITH 2 SENSORS WITH PRIMARY ZONE 24FT AND SECONDARY ZONE 8FT -- PDT24 SADC8



Notes:

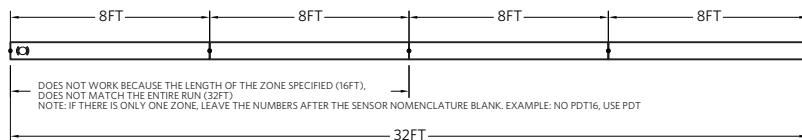
- Only one sensor per zone
- At the most, the entire run can only have 2 sensors (thus 2 sensors zones at the most)
- Sensor zone can not split fixture sections
- No overlapping zones

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

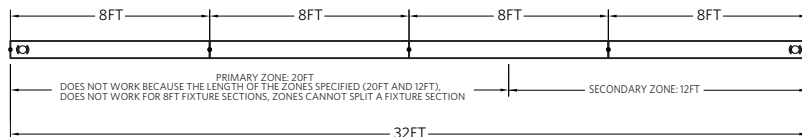


INCORRECT:

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



INTELLIGENT LUMINAIRE TECHNOLOGY GUIDE

Choose nomenclature from these columns				
Driver Configurations	Minimum Dimming Level	Control Input	Dimming Range	Notes
	DARK	+ NLT	= 100% to 0.1%	Logarithmic Dimming, nLO EZDL CCT with luminaire
Control + Sensor Configurations	Control Input	Sensor	Sensor	Notes
	NLIGHT	+ ADC	= NES ADCX	nLight control Daylight sensor
	NLIGHT	+ PDT	= NES PDT 7	nLight control Occupancy sensor
	NLIGHT	+ APDT	= NES PDT 7 ADCX	nLight control Daylight with Occupancy sensor

Daylight harvesting deactivated by default and field programmed per sequence of operations.

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-Lighting@AcuityBrands.com.

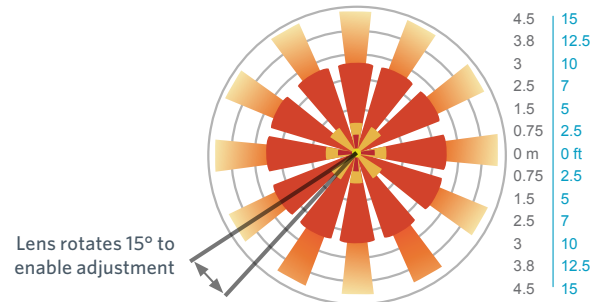
OCCUPANCY DETECTION COVERAGE

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

nTune® Wired Control Accessories <i>Order as separate catalog number</i>	
Wall Switches	Model Number
On/Off two pole & Raise/Lower CCT	nPODMA 2P DX CCT (color)
On/Off, 4 scene control, Dimming, TUWH	nPODMA 4S DX EDUTW (color)
On/Off, 4 scene control, TUWH	nPODMA 4S EDUTW (color)
Graphic Touchscreen	nPOD TOUCH (color)

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

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

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