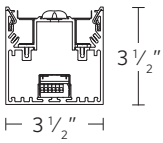


DIMENSIONS

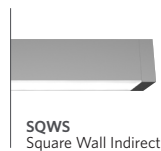
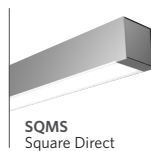
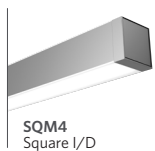
□ SQM1



DETAILS



COMPANION LUMINAIRE(S)



CUSTOMIZATION

Ask us about the following possibilities: Higher lumen outputs, 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 93 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[®] module for system networking (optional)
- Integrated sensor for daylight dimming and/or occupancy detection (optional)
- Flat or sculptured end caps
- White, black, painted aluminum, anodized aluminum or custom color



eldoLED

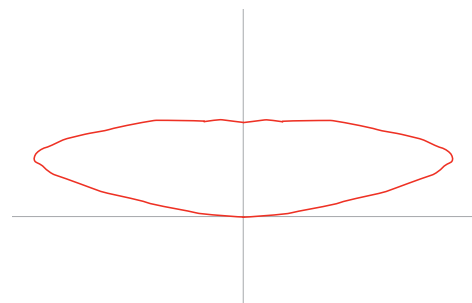


LUMEN PACKAGES

Indirect LED Output	I500LMF	I900LMF
Delivered Lumens Per Foot	463	904
Input Watts Per Foot	5	10.5
Lumens Per Watt	94	87

DISTRIBUTION

100% Up



SPECIFICATIONS

Housing

Extruded aluminum housing is 3.5" square.

End Caps

Extruded aluminum end caps are mechanically attached with no exposed fasteners. Flat end caps standard. For sculptured end caps, choose option SCEP.

Color

Color for housing and end caps is gloss white, black, painted aluminum or anodized 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 1" for each standard end cap and 2 1/4" for each sculptured 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 optics, 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 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 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 Page 5 for integrated sensor options.

One control module per 4' section or 40' maximum row.

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. 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. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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.

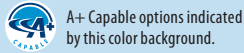
A+ Capable Luminaire

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



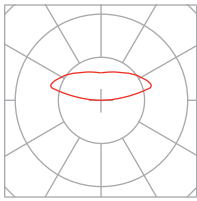
MODEL NUMBER Example: SQM1 LLP 16FT MSL8 80CRI 35K 500LMF DARK ZT 120 SCT F1/24A C110

Luminaire	Linear Length Plan	Total Run Length	Maximum Section Length	LED Color Rendering	LED Color Temperature	Indirect LED Output
SQM1	LLP Linear longest possible	__FT	MSL4 4' Section(s)	80CRI 80+ CRI	30K 3000K	1500LMF 500 nominal indirect lumens per foot
	LSL Longest same length	Indicate Luminaire Row Length in 4' increments. Ex: 12FT	MSL8 8' Section(s)		35K 3500K	1900LMF 900 nominal indirect lumens per foot
					40K 4000K	

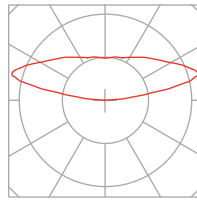
Minimum Dimming Level	Control Input	Voltage	Wiring Option	Emergency Options	Primary Sensor	Secondary Sensor
DARK Constant current, dimming to < 1%	ZT* 0-10V NLIGHT** nLight enabled DALI*** DALI <i>*0-10V will use linear dimming curve ** Will use logarithmic dimming curve ***Not available with sensors ***Will use logarithmic dimming curve</i>	120 120V 277 277V	SCT Single circuit	(Blank) None 1EC (1) Emergency circuit module 2EC (2) Emergency circuit module __EC __ Emergency circuit modules <i>Emergency type is installed in last 4' of luminaire sections. Separate feed required.</i>	(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>

Mounting Type/	Overall Suspension	Color	Options
F1/ T-bar ceiling (universal mounting bracket)	24A 24" adjustable	C032 Gloss white	BLK* Black cord and canopy
F1A/ T-bar ceiling (UMB with integrated J-box)	36A 36" adjustable	C100 Anodized aluminum	CSA Manufactured to Canadian Standards
F2/ Hard ceiling (horizontal J-box)	48A 48" adjustable	C110 Painted aluminum	CP Chicago Plenum (available with F1A only)
	72A 72" adjustable	C201 Black (low gloss)	ELH** Emergency through wiring w/ single feed, shared neutral
	96A 96" adjustable	C099 Custom color	ELS2** Emergency through wiring w/ single feed, separate neutrals
	144A 144" adjustable		<i>*Not available with NLIGHT</i>
	192A 192" adjustable		<i>**Not available with CSA</i>
	240A 240" adjustable <i>Measured from ceiling to bottom of luminaire.</i>		
			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
			SCEP Sculptured end cap
			SLP Sloped ceiling
			DU Dust cover

PHOTOMETRICS



1500LMF 80CRI 35K
94 lumens per watt
1849 delivered lumens per 4' section
100% up



1900LMF 80CRI 35K
87 lumens per watt
3620 delivered lumens per 4' section
100% up

CONFIGURATIONS

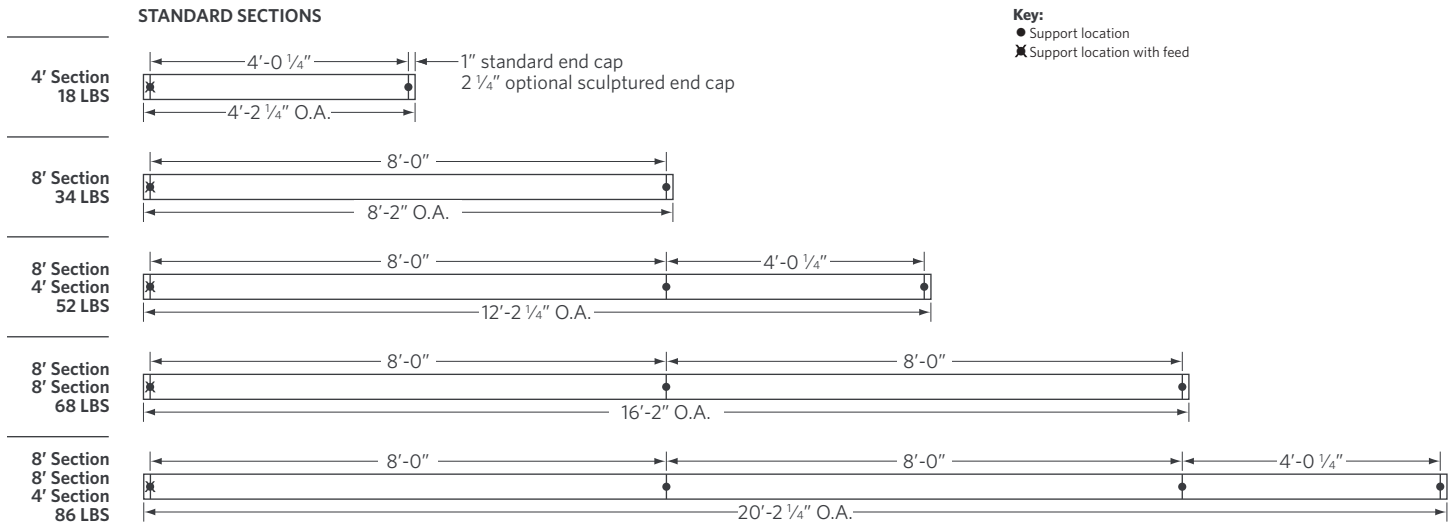


Square can be configured with special mitered sections to provide seamless corner illumination where two luminaires join together. Reference [Pattern Connector Guide](#) for additional details.

WEIGHTS & SUPPORT SPACING

Suspension spacing equals section length. Default location shown. Consult factory for stem mounting suspension spacing and alternate locations.

STANDARD SECTIONS



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

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

Mounting Type

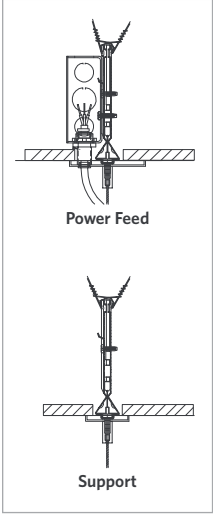
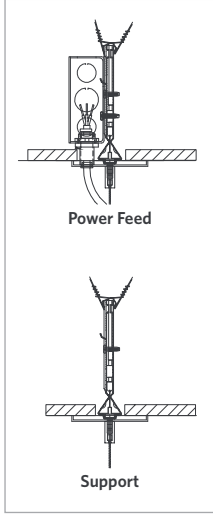
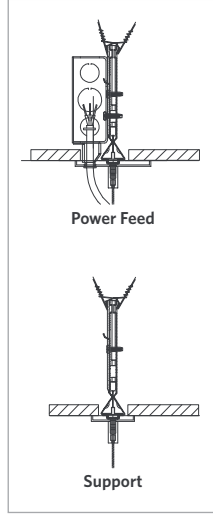
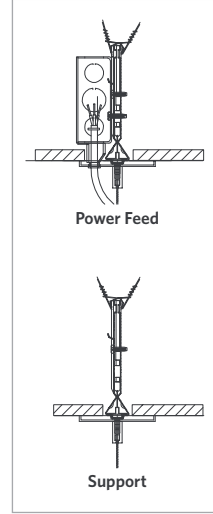
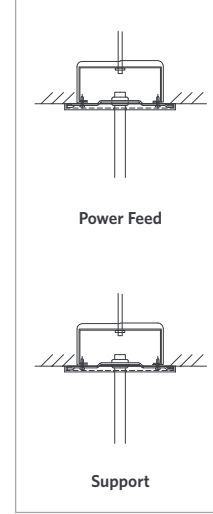
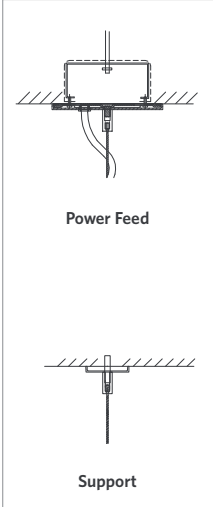
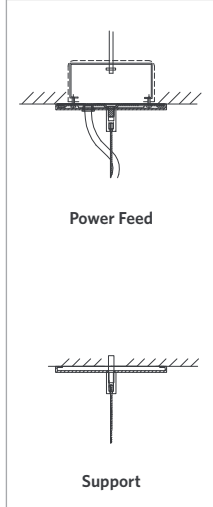
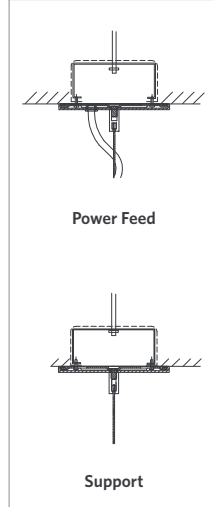
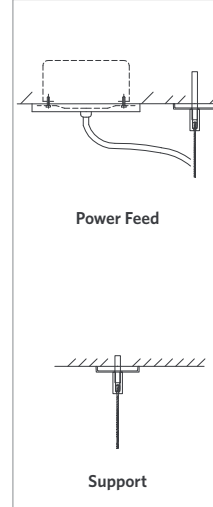
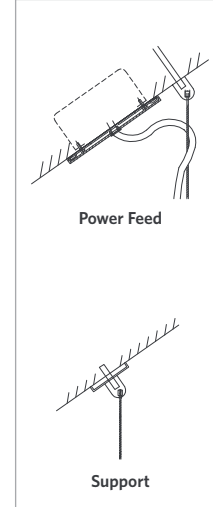
- F1/** For use with most T-Bar and screw slot grid ceilings. Designed for on-grid and off-grid applications.
- F2/** For use with recessed or surface mount horizontal J-box applications.
- F3/** Stem mounting for use with recessed or surface mount horizontal J-box applications. *Check with local jurisdiction 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.com/MountingOptions

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>

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	Occupancy Detection	nLight Wired Networking	nLight Wireless Networking	Link to Spec Sheet
NLIGHT	ADC	X		X		nES-ADCX
NLIGHT	PDT		X	X		nES-7
NLIGHT	APD	X	X	X		nES-7
ZT	ADC	X				nES-ADCX
ZT	PDT		X			nES-7
ZT	APD	X	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.



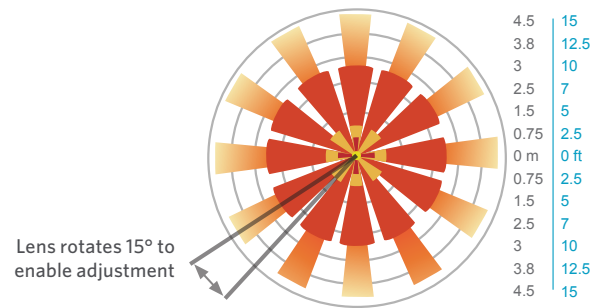
OCCUPANCY DETECTION COVERAGE

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

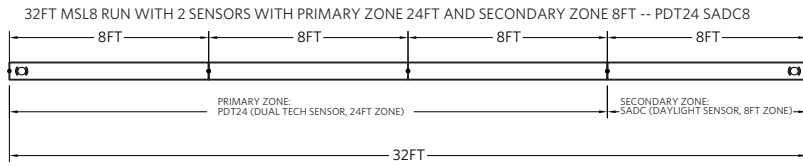
SensorSwitch.com/DataSheets/nPOD-GFX.pdf

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

PeerlessLighting.com/eldoLED-compatibility

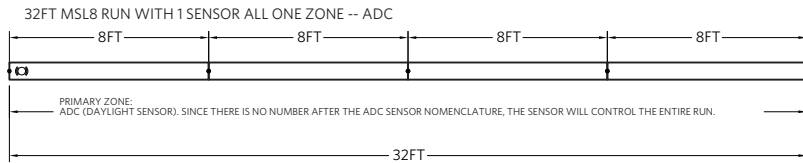
INTEGRATED SENSOR LAYOUT

CORRECT:



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



INCORRECT:

