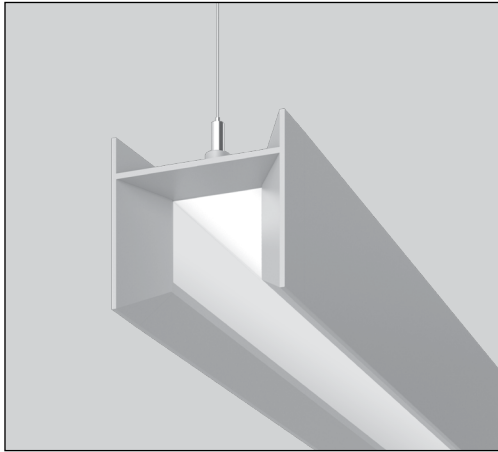
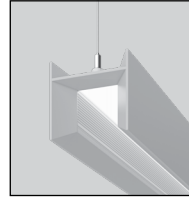


Zen Square

PENDANT DIRECT



MSO - microgroove spotless lens



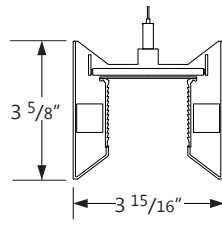
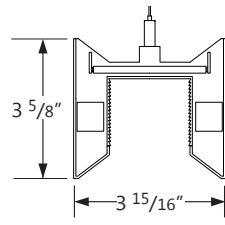
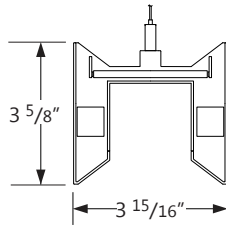
MAL - microgroove aluminum

SO - spotless lens

SO - spotless lens

MSO - microgroove spotless lens

MAL - microgroove aluminum



Project _____

Type _____

Notes _____

PERFORMANCE PER LINEAR FOOT AT 3500K

DISTRIBUTION	NOMINAL LUMEN OUTPUT		INPUT WATTS	EFFICACY	SHIELDING
	UP	DOWN			
0up/100down at 900 lm/ft	-	900 lm/ft	11.4 w/ft	78 lm/w	SO
0up/100down at 900 lm/ft	-	900 lm/ft	10.1 w/ft	88 lm/w	MSO
0up/100down at 900 lm/ft	-	900 lm/ft	12.7 w/ft	71 lm/w	MAL

* Based on a 4 foot luminaire using one driver
Please consult factory for custom lumen output and wattage



Ordering Guide

ZESQD											
PRODUCT ID		LIGHT ENGINE		NOMINAL LUMENS/FT		CRI		COLOR TEMP.		SHIELDING	
ZESQD	Zen Square Pendant Direct	SL 0/100	surroundlite 0%up/100%down	400	400 lm/ft - Minimum	80	80 CRI	27	2700 K	SO	spotless lens
				700	700 lm/ft - Maximum for 90 CRI	90	90 CRI	30	3000 K	MSO	microgroove spotless lens
				900	900 lm/ft - Maximum for 80 CRI			35	3500 K	MAL	microgroove aluminum*
								40	4000 K		
				Consult factory for other lumen packages						* Standard white	
SHIELDING FINISH (OPTIONAL)		FIXTURE LENGTH		FINISH		VOLTAGE		DRIVER		CIRCUITS	
W C	white - standard custom	2	2'	AP	aluminum paint	UNV	universal	DP	integral driver 0-10V dimming 1%	1	1 circuit
		3	3'	W	white	DC	low voltage*	POE(#)	POE drivers*	+E(#)	emergency section
		4	4'	BLK	black						
		5	5'	C	custom						
		6	6'								
		7	7'								
		8	8'								
		12	12'								
		S(L) system run									
Shielding finish option is for MAL option only.		All lengths in 1' increments				Consult factory for 347 V * Only available with POE drivers		* Specify system, see page 3 Only integral 0-10V driver available			
MOUNTING/SUSPENSION		BATTERY (OPTIONAL)		END CAP (OPTIONAL)		IC CONTROLS (OPTIONAL)		CUSTOM			
CA(#) drywall+cable length (36" std.)		BR(#) remote battery pack		FE flat end cap		EN(#) enlightened integral		C custom			
CT9(#) TB/TG 9/16+cable length (36" std.)				RE rounded end cap		DOS(#) daylight & occupancy sensor					
CT15(#) TB/TG15/16+cable length (36" std.)						WC(#) wireless control dimming					
CTS(#) screw slot+cable length (36" std.)											
SA(#) drywall+stem length >48" (18" std.)											
CASL(#) drywall cable sloped ceiling											
SASL(#) drywall stem sloped ceiling											
+SM seismic kit											
See Mounting kit guide for full specification code.		Not available with 347V Please consult factory		A standard end cap will be supplied (open end, or sensor end cap), if no selection is made. See page 3 for more details.		Applies to both UP & DOWN. Remote or integrated. See IC controls guide for more information Sensor end cap will be supplied as standard with the selection. See page 3 for end cap details.		Please specify			

Zen Square

PENDANT DIRECT



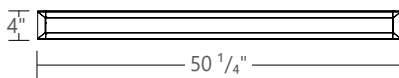
● LIGHT GUIDE

High precision light guide made of PMMA material, allows distribution of controlled light in all 3-dimensions to put light on both vertical and horizontal planes within the space. Patented lightguide design featuring molecular optics and precision-coupled optic components yield a high efficiency luminaire. In-plane mixing maximizes color uniformity while light emitting area is uniform and diffuse without 'head lighting' from the LED's.

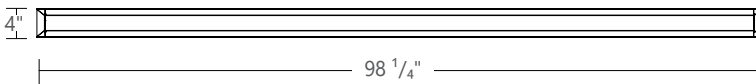
● LENGTHS

2' to 12' in 1' increments

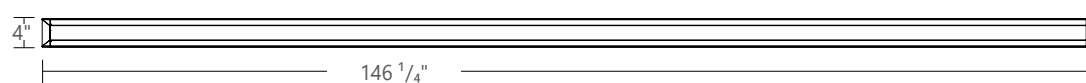
4ft



8ft



12ft



● SYSTEMS (S#)

Runs of Zen Square that are greater than 12ft in length are designated as systems S(L). This means that the run is comprised of a combination 4ft and/or 8ft sections to be assembled on site using our joining system.

● WEIGHT

4 ft 9 lbs / 4.1 kg
8 ft 18 lbs / 8.2 kg
12 ft 27 lbs / 12.3 kg

● WARRANTY

Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.

● APPROVALS

Certified to UL and CUL standards 
Suitable for damp locations.

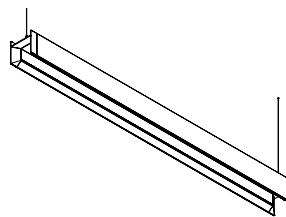
● FINISH

White, black, aluminum paint, powder coated and custom finishes are also available.

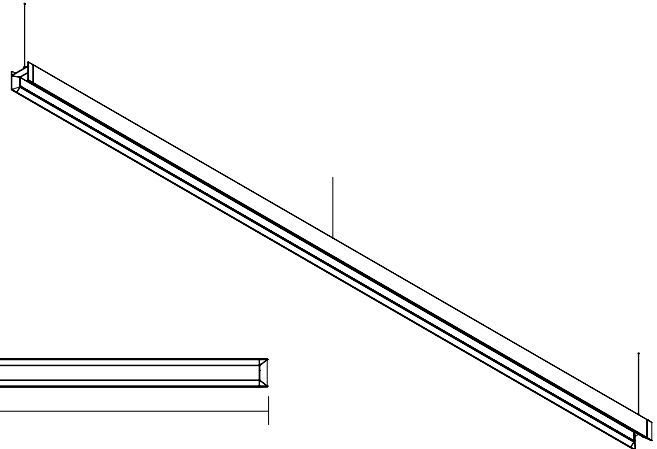
● SUSPENSION / MOUNTING SPACING

Distance Between
Mounting Points:
4ft 48"
8ft 96"

Standard Suspension
Length:
CABLE: 36"
STEM: 18"



Distance Between
Mounting Points:
12ft 72"



● ELECTRICAL

Power over Ethernet MOLEX
POE drivers* IGOR

UL2108 certified for
integral or remote driver

SMARTENGINE
O - Other (Consult factory)

Emergency

Remote emergency battery pack or
emergency circuit optional.

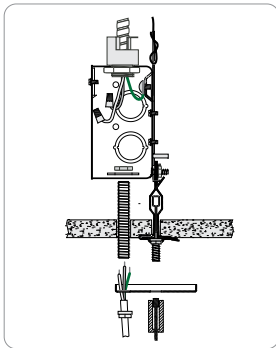
Input Voltage

UNV (120-277 V)

i Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.



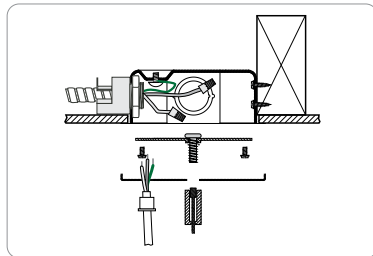
● MOUNTING OPTIONS



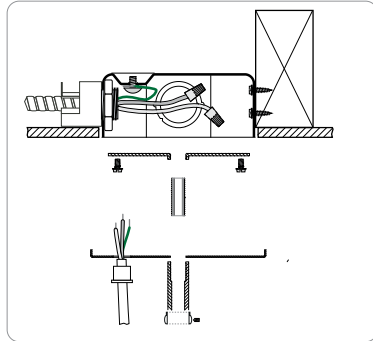
CT TILE CEILING - ON GRID

Mounting options are also available for slope ceiling and seismic bracing.

i Installation sheets for all mounting options are available at: www.axislighting.com under 'Downloads' tab.

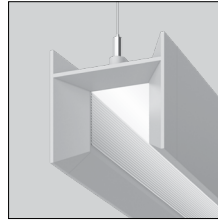


CA DRYWALL CEILING



SA STEM MOUNT IN DRYWALL CEILING

● END CAP OPTIONS



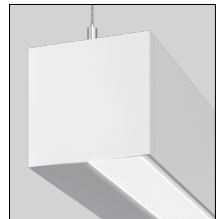
Default end cap that will be supplied unless specified otherwise.

Standard



Sensor end cap that will be supplied, if sensor selection is made.

Standard



Flat end cap

Optional



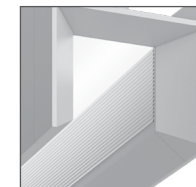
Rounded end cap

Optional

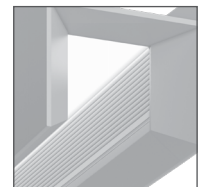
● OPTICS



SO spotless lens



MSO microgroove spotless lens



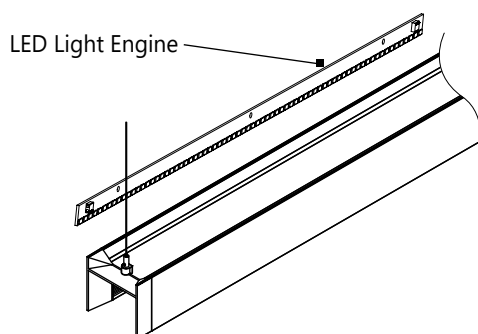
MAL microgroove aluminum

● LED SYSTEM

CRI	Minimum 80 or 90 color rendering index
CCT	Choice of 3000K, 3500K and 4000K color temperature with a great color consistency (within 3-step MacAdam ellipse). Both within fixture and fixture to fixture.
LED life	Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.
Environment	Dry and damp rated for indoor use only in operating ambient temperatures of 0-40°C (32-104°F)

● LED UPGRADE / REPLACEMENT

All LED light engines used are field replaceable and upgradable to ensure the lighting system will last for years. Future-proof design comes with easy access to LED light engines from above using quick connectors (included in luminaire) and a screwdriver.



● CONSTRUCTION

Housing	Extruded aluminum (0.06" nominal)
End Cap	Die cast aluminum (0.10" nominal)
Joiners	Die cast aluminum (0.10" nominal)
Interior Bracket	Die formed zintec (20 gauge)
Lens	Uniform frosted acrylic lens

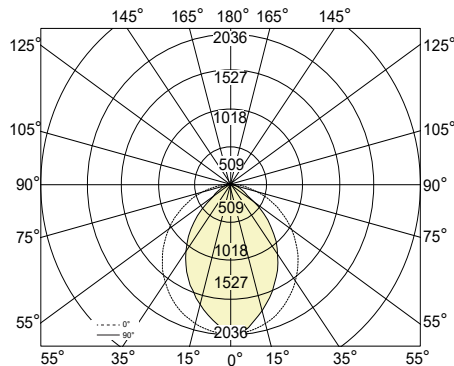


● PHOTOMETRIC DATA

MAL Microgroove Aluminium

900 lm/ft

PHOTOMETRIC CURVE



Lumen/ft: 900 lm/ft
 Total Lumens: 3575 lm (for 4ft)
 Input Watts: 50.7 W
 Efficacy: 71 lm/W

IES FILE: ZESQD-SL 0-100-900-80-35-MAL-W-4.IES

CRI:80 shown
 TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	2007	2007	2007	2007	2007
5	2000	2024	1989	1957	1956
15	1932	1860	1751	1680	1665
25	1794	1634	1470	1382	1358
35	1598	1364	1159	1029	991
45	1348	1064	813	584	502
55	1051	745	387	254	241
65	736	406	180	132	124
75	375	137	74	49	43
85	93	33	15	3	2
90	5	23	11	1	0

ZONAL LUMENS

Zone	Lumens
0	
0-10	183
10-20	488
20-30	682
30-40	734
40-50	622
50-60	441
60-70	274
70-80	121
80-90	30
90	

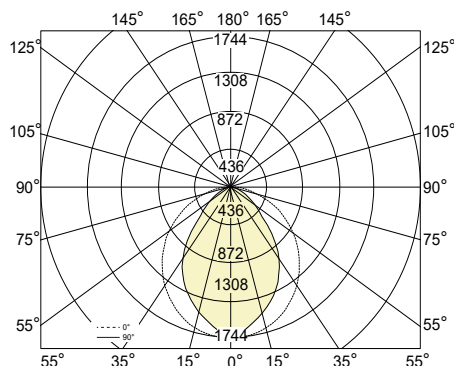
LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	29486	17793	10982
55	28361	10436	6505
65	26952	6594	4531
75	22411	4453	2546
85	16483	2643	388

MSO Microgroove Spotless Lens

900 lm/ft

PHOTOMETRIC CURVE



Lumen/ft: 900 lm/ft
 Total Lumens: 3579 lm (for 4ft)
 Input Watts: 40.5 W
 Efficacy: 88 lm/W

IES FILE: ZESQD-SL 0-100-900-80-35-MSO-W-4.IES

CRI:80 shown
 TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1738	1738	1738	1738	1738
5	1728	1718	1695	1673	1672
15	1671	1603	1542	1499	1492
25	1557	1437	1352	1312	1295
35	1386	1233	1135	1060	1019
45	1168	1000	860	703	621
55	914	742	509	362	347
65	643	464	263	185	168
75	327	196	98	48	37
85	74	36	17	4	3
90	6	24	12	2	1

ZONAL LUMENS

Zone	Lumens
0	
0-10	159
10-20	437
20-30	633
30-40	716
40-50	654
50-60	496
60-70	316
70-80	136
80-90	31
90	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	25553	18818	13579
55	24666	13724	9356
65	23523	9637	6147
75	19533	5863	2233
85	13067	3034	613

i All IES files are available for download at: www.axislighting.com

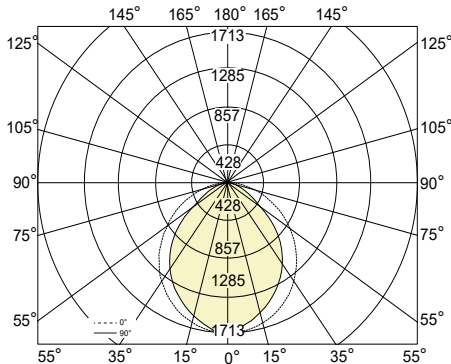


● PHOTOMETRIC DATA

SO Spotless lens

900 lm/ft

PHOTOMETRIC CURVE



Lumen/ft: 900 lm/ft
Total Lumens: 3580 lm (for 4ft)
Input Watts: 45.7 W
Efficacy: 78 lm/W

IES FILE: ZESQD-SL 0-100-900-80-35-SO-4.IES

CRI:80 shown
TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION						
Vertical Angle	Horizontal Angles					
	0	22.5	45	67.5	90	
0	1700	1700	1700	1700	1700	
5	1695	1668	1648	1634	1637	
15	1639	1567	1514	1485	1480	
25	1529	1419	1348	1304	1296	
35	1365	1221	1129	1047	1015	
45	1150	983	838	634	540	
55	895	724	443	326	300	
65	615	433	218	135	121	
75	320	168	59	15	10	
85	69	31	13	1	1	
90	5	23	11	1	0	

ZONAL LUMENS	
Zone	Lumens
0	
0-10	158
10-20	437
20-30	641
30-40	733
40-50	665
50-60	493
60-70	303
70-80	123
80-90	27
90	

LUMINANCE DATA (cd/m²)				
Vertical Angle	Horizontal Angles			
	0	45	90	
45	4593	3346	2158	
55	4406	2179	1477	
65	4110	1454	809	
75	3487	644	112	
85	2244	412	23	

i All IES files are available for download at: www.axislighting.com