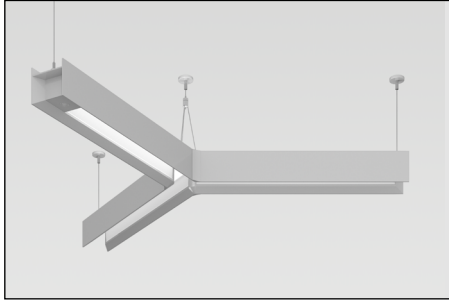
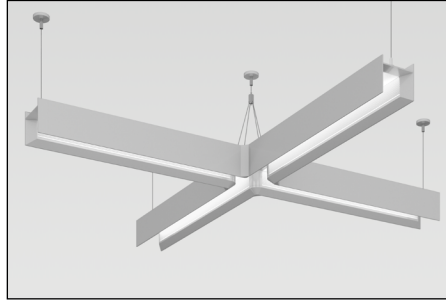


Zen Square Forms

PENDANT DIRECT



3LG - 3 legs



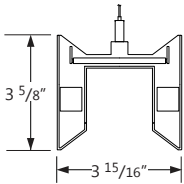
4LG - 4 legs

Project _____

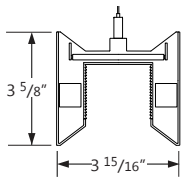
Type _____

Notes _____

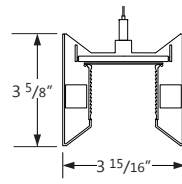
SO - spotless lens



MSO - microgroove spotless lens



MAL - microgroove aluminum



Ordering Guide

ZESQFD				SL 0/100									
PRODUCT ID		SHAPE		LIGHT ENGINE		NOMINAL LUMENS/FT		CRI		COLOR TEMP.	SHIELDING		
ZESQFD	Zen Square Forms	3LG	3 legs	SL 0/100	surroundlite	400	400 lm/ft - Minimum	80	80 CRI	27	2700 K	SO	spotless lens
	Pendant Direct	4LG	4 legs		0%up/100%down	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 *	
						Consult factory for other lumen packages						* Standard white	

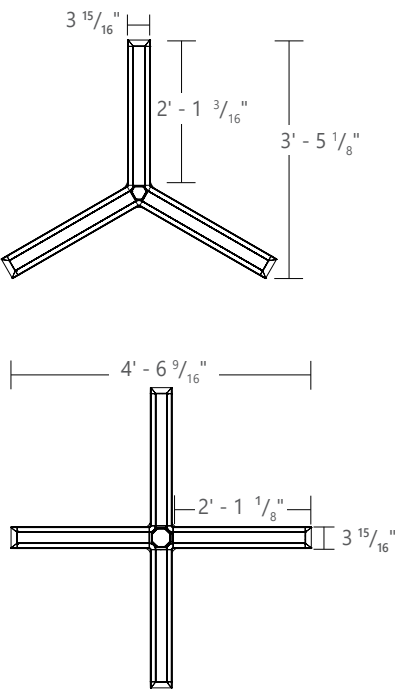
SHIELDING FINISH (OPT.)		2	CENTER HUB		FINISH	VOLTAGE		DRIVER		CIRCUITS	
W white - standard		2 2'	CH closed hub		AP aluminum paint	UNV universal		DP integral mini driver 0-10V dimming 1%		1 1 circuit	
C custom			OH open hub		W white	DC low voltage*		POE(##) POE drivers*		+E(##) emergency section	
					BLK black						
					C custom						
Shielding finish option is for MAL option only.			See page 2 for more details.			Consult factory for 347 V * Only available with POE drivers.		Only integral 0-10V driver available * Specify system, see page 3			

MOUNTING/SUSPENSION	REMOTE 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 2 for end cap details.	Please specify

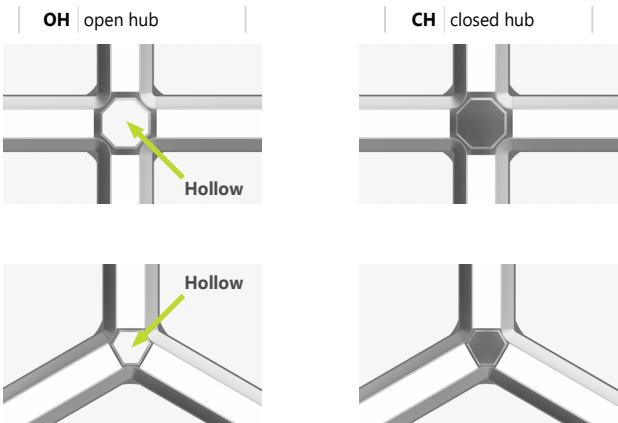
● LIGHT GUIDE

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



● CENTER HUB



● FINISH

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

● APPROVALS

Certified to UL and CUL standards 
Suitable for damp locations.

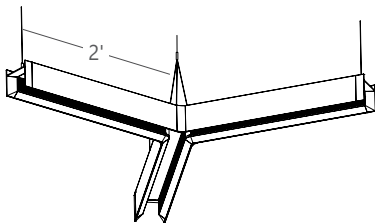
● WARRANTY

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.

● SUSPENSION / MOUNTING SPACING

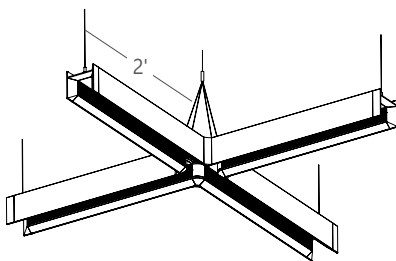
Distance Between Mounting Points:
H 2ft 24"

Standard Suspension Length:
CABLE: 36"



Distance Between Mounting Points:
H 2ft 24"

Standard Suspension Length:
CABLE: 36"



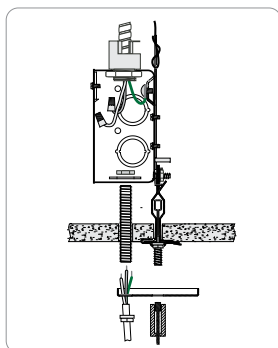
● CONSTRUCTION

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

● SYSTEMS (S#)

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

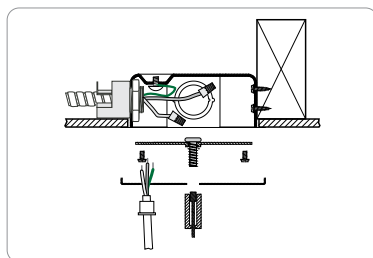
● MOUNTING OPTIONS



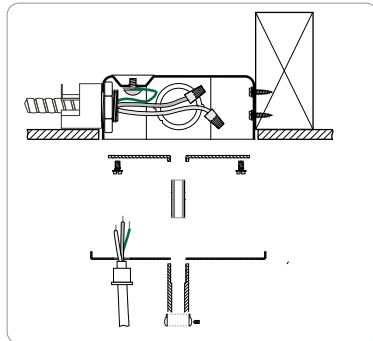
CT TILE CEILING - ON GRID

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.

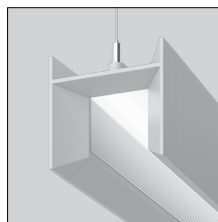


CA DRYWALL CEILING



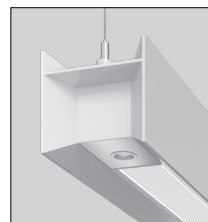
SA STEM MOUNT IN DRYWALL CEILING

● END CAP OPTIONS



Default end cap that will be supplied unless specified otherwise.

Standard



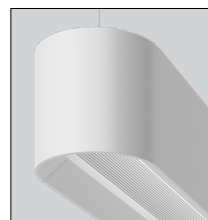
Sensor end cap that will be supplied, if sensor selection is made.

Standard



Flat end cap

Optional



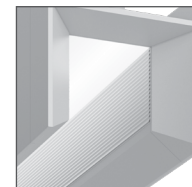
Rounded end cap

Optional

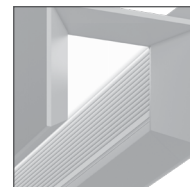
● OPTICS



SO spotless lens



MSO microgroove spotless lens



MAL microgroove aluminum

● LED SYSTEM

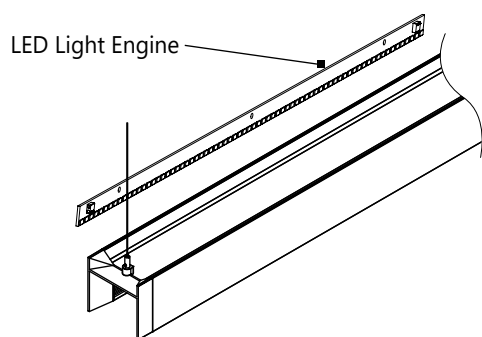
CRI	Minimum 80 or 90 color rendering index
CCT	Choice of 3000K, 3500K and 4000K color temperature with a great color consistency (within 3-step MacAdam ellipse). Both within fixture and fixture to fixture.
LED life	Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance 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)

● WEIGHT

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

● 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.



● ELECTRICAL

Power over Ethernet MOLEX

POE drivers*

UL2108 certified for integral or remote driver

IGOR

SMARTENGINE

O - Other (Consult factory)

Emergency

Remote emergency battery pack or emergency circuit optional.

Input Voltage

UNV (120-277 V)

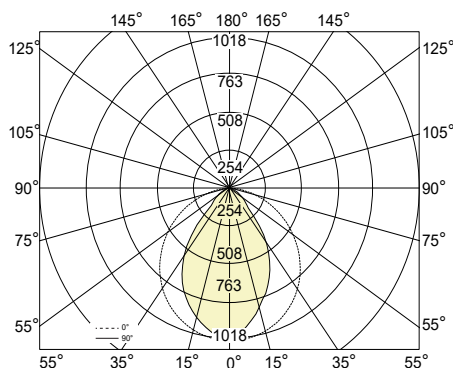
- i** Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

● PHOTOMETRIC DATA

MAL Microgroove Aluminium

900 lm/ft

PHOTOMETRIC CURVE



Lumen/ft: 900 lm/ft

Total Lumens: 1787 lm (for 2ft)

Input Watts: 25 W

Efficacy: 71 lm/W

IES FILE: ZESQFD-SLO-100-900-80-35-MAL-2.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1004	1004	1004	1004	1004
5	1000	1012	995	979	978
15	966	930	876	840	832
25	897	817	735	691	679
35	799	682	579	514	495
45	674	532	407	292	251
55	526	372	193	127	121
65	368	203	90	66	62
75	187	69	37	24	21
85	46	16	7	1	1
90	2	12	6	0	0

ZONAL LUMENS

Zone	Lumens
0	
0-10	91
10-20	244
20-30	341
30-40	367
40-50	311
50-60	221
60-70	137
70-80	60
80-90	15
90	

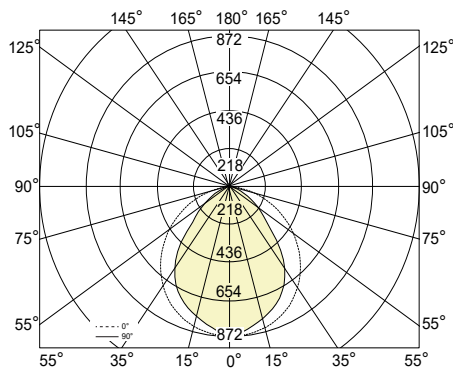
LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	15628	9431	5820
55	15031	5531	3448
65	14285	3495	2401
75	11878	2360	1350
85	8736	1401	206

MSO Microgroove Spotless Lens

900 lm/ft

PHOTOMETRIC CURVE



Lumen/ft: 900 lm/ft

Total Lumens: 1790 lm (for 2ft)

Input Watts: 20 W

Efficacy: 88 lm/W

IES FILE: ZESQFD-SLO-100-900-80-35-MSO-2.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	869	869	869	869	869
5	864	859	848	837	836
15	835	801	771	749	746
25	779	719	676	656	647
35	693	616	568	530	509
45	584	500	430	352	310
55	457	371	254	181	173
65	321	232	132	93	84
75	163	98	49	24	19
85	37	18	9	2	2
90	3	12	6	1	1

ZONAL LUMENS

Zone	Lumens
0	
0-10	80
10-20	218
20-30	316
30-40	358
40-50	327
50-60	248
60-70	158
70-80	68
80-90	16
90	0

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	13543	9973	7197
55	13073	7274	4959
65	12467	5108	3258
75	10352	3108	1183
85	6926	1608	325

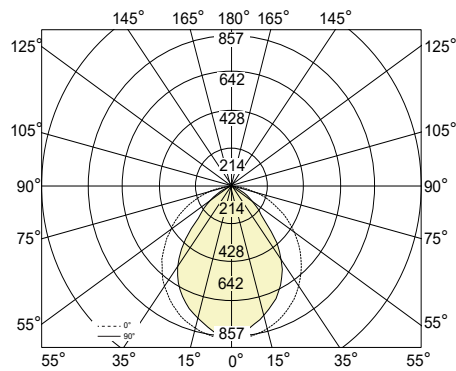
i All IES files are available for download at: www.axislighting.com

● PHOTOMETRIC DATA

SO Spotless Lens

900 lm/ft

PHOTOMETRIC CURVE



Lumen/ft: 900 lm/ft
Total Lumens: 1790 lm (for 2ft)
Input Watts: 23 W
Efficacy: 78 lm/W
IES FILE: ZESQFD-SL0-100-900-80-35-SO-2.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION						ZONAL LUMENS		LUMINANCE DATA (cd/m²)			
Vertical Angle	Horizontal Angles					Zone	Lumens	Vertical Angle	Horizontal Angles		
	0	22.5	45	67.5	90				0	45	90
0	850	850	850	850	850	0		45	13338	9719	6267
5	847	834	824	817	818	0-10	79	55	12795	6327	4290
15	819	784	757	742	740	10-20	219	65	11937	4224	2351
25	765	709	674	652	648	20-30	321	75	10126	1870	325
35	683	610	564	524	507	30-40	366	85	6518	1196	67
45	575	491	419	317	270	40-50	332				
55	447	362	221	163	150	50-60	246				
65	308	216	109	68	61	60-70	152				
75	160	84	30	8	5	70-80	61				
85	35	15	6	0	0	80-90	14				
90	2	11	5	0	0	90					

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