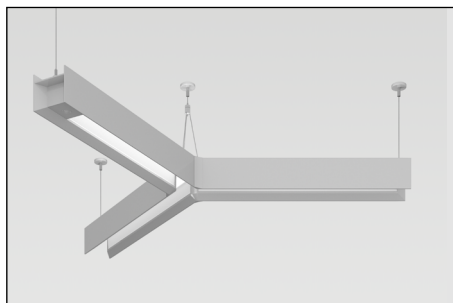
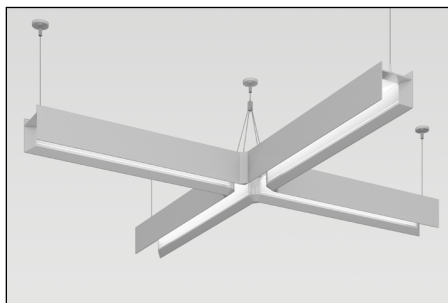


Zen Square Forms

PENDANT DIRECT / INDIRECT



3LG - 3 legs



4LG - 4 legs

Project _____

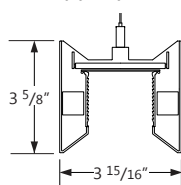
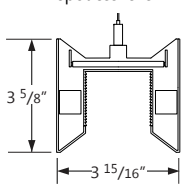
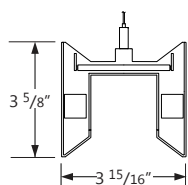
Type _____

Notes _____

SO - spotless lens

MSO - microgroove
spotless lens

MAL - microgroove
aluminum



Ordering Guide

ZESQFDI															
PRODUCT ID		SHAPE		LIGHT ENGINE		NOMINAL LUMENS/FT		CRI		COLOR TEMP.		SHIELDING			
ZESQFDI	Zen Square Forms	3LG	3 legs	SL 75/25	surroundlite	75%up/25%down	500	500 lm/ft - Minimum		80	80 CRI	27	2700 K	SO	spotless lens
	Pendant Direct/	4LG	4 legs	SL 50/50	surroundlite	50%up/50%down	800	800 lm/ft - Maximum for 25/75		90	90 CRI	30	3000 K	MSO	microgroove spotless lens
	Indirect			SL 25/75	surroundlite	25%up/75%down	1000	1000 lm/ft - Maximum for 50/50				35	3500 K	MAL	microgroove aluminum *
						1200	1200 lm/ft - Maximum for 75/25						40	4000 K	
						Output limits displayed apply to 90 CRI option. Applies to both UP & DOWN. Higher output possible for 80 CRI. Please consult factory.				Applies to both UP & DOWN.		* Standard white			

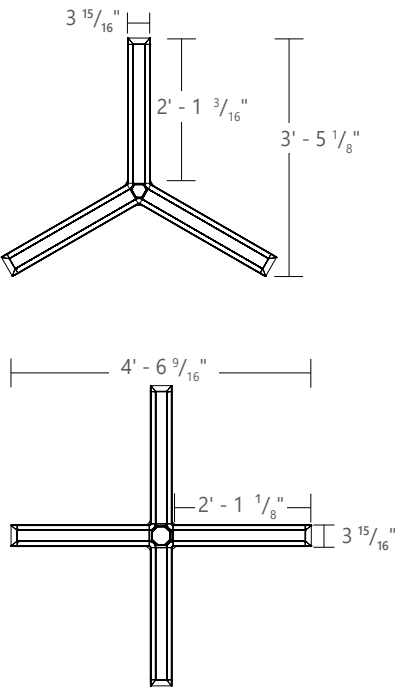
SHIELDING FINISH (OPT.)		2	CENTER HUB		FINISH	VOLTAGE		DRIVER		CIRCUITS
W	white - standard	2' 2'	CH	closed hub	AP	aluminum paint	UNV	universal	DP	1 circuit
C	custom		OH	open hub	W	white	DC	low voltage*	POE(#)	emergency section
					BLK	black				
					C	custom				
Shielding finish option is for MAL option 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 (OPT.)	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

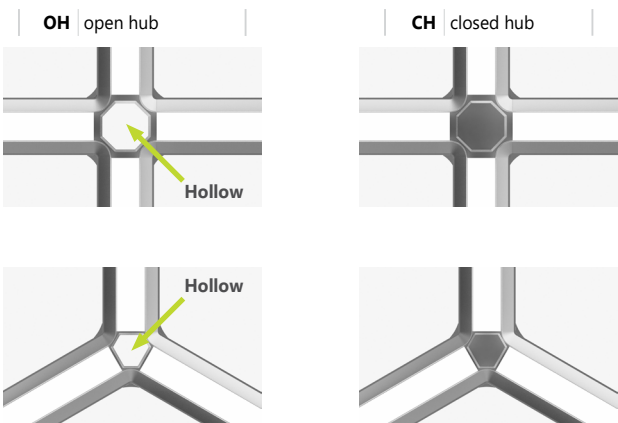
● LIGHT GUIDE

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.

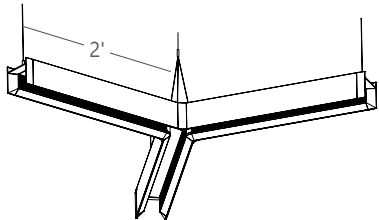
● WARRANTY

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

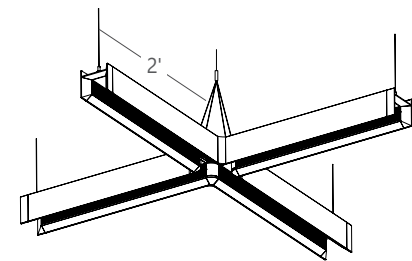
Distance Between
Mounting Points:
H 2ft 24"

Standard Suspension
Length:
CABLE: 36"



Distance Between
Mounting Points:
H 2ft 24"

Standard Suspension
Length:
CABLE: 36"



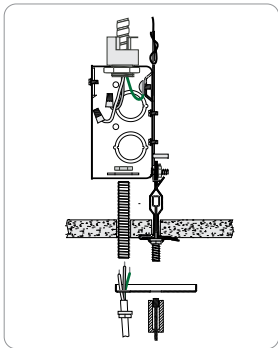
● CONSTRUCTION

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.

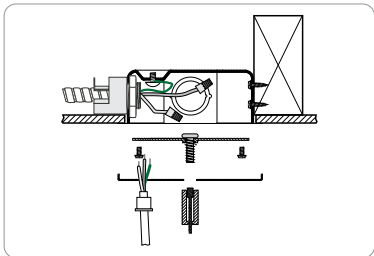
● MOUNTING OPTIONS



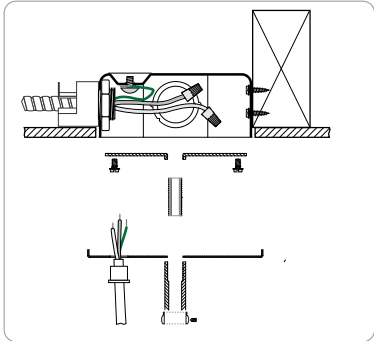
CT TILE CEILING - ON GRID

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.



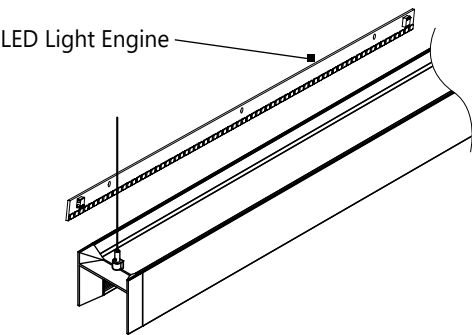
CA DRYWALL CEILING



SA STEM MOUNT IN DRYWALL CEILING

● 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

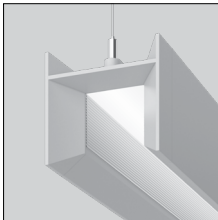
Remote emergency battery pack or emergency circuit optional.

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.

● 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



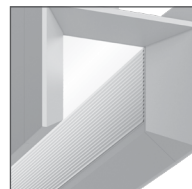
Rounded end cap

Optional

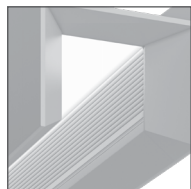
● OPTICS



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 (32-104F)

● WEIGHT

H 4 ft 9 lbs / 4.1 kg

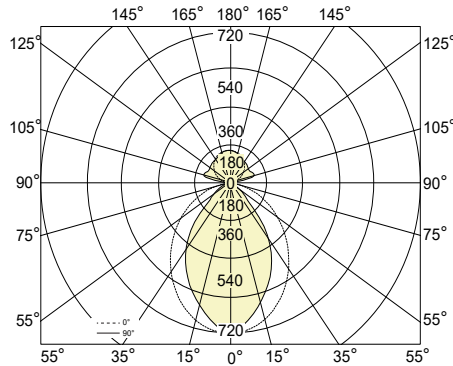
H 8 ft 18 lbs / 8.2 kg

H 12 ft 27 lbs / 12.3 kg

● PHOTOMETRIC DATA

MAL Microgroove Aluminium
25% up / 75% down at 800 lm/ft

PHOTOMETRIC CURVE



Lumens up: 371 lm
Lumens down: 1219 lm
Total lumens: 1591 lm (for 4ft)
Input Watts: 19.6 W
Efficacy: 81 lm/W

IES FILE: ZESQFDI-SL25-75-800-80-35-MAL-2.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	713	713	713	713	713
5	709	690	675	663	662
15	684	627	586	559	552
25	632	546	486	444	433
35	559	450	373	313	292
45	467	346	245	152	120
55	364	237	101	75	70
65	251	123	53	36	33
75	135	43	20	9	7
85	38	10	4	1	0
90	1	4	2	0	0
95	5	5	2	1	1
105	24	24	30	52	65
115	47	42	45	50	56
125	66	63	63	64	65
135	82	82	77	80	81
145	94	94	94	90	91
155	103	103	104	105	105
165	109	108	109	109	110
175	111	111	111	111	111
180	112	112	112	112	112

ZONAL LUMENS

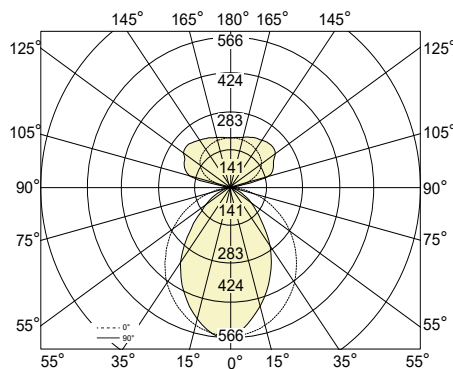
Zone	Lumens
0	
0-10	65
10-20	170
20-30	234
30-40	249
40-50	210
50-60	148
60-70	92
70-80	41
80-90	10
90	
90-100	6
100-110	38
110-120	51
120-130	61
130-140	64
140-150	60
150-160	49
160-170	31
170-180	11
180	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	10838	5674	2785
55	10407	2893	1993
65	9758	2045	1291
75	8559	1297	420
85	7242	841	63

MSO Microgroove Spotless Lens
50% up / 50% down at 1000 lm/ft

PHOTOMETRIC CURVE



Lumens up: 885 lm
Lumens down: 1109 lm
Total lumens: 1994 lm (for 4ft)
Input Watts: 17.8 W
Efficacy: 112 lm/W

IES FILE: ZESQFDI-SL 50-50-1000-80-35-MSO-2.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	556	556	556	556	556
5	554	544	539	533	531
15	533	506	476	456	450
25	493	444	400	368	360
35	438	370	313	272	259
45	366	288	219	168	152
55	285	205	127	100	91
65	197	119	69	46	40
75	105	54	22	5	4
85	25	11	5	1	1
90	1	4	2	1	1
95	10	13	5	3	3
105	60	59	90	145	167
115	114	120	134	187	219
125	148	160	186	214	228
135	165	178	200	226	237
145	174	183	201	216	222
155	181	185	196	207	211
165	184	186	190	195	197
175	186	187	187	188	188
180	187	187	187	187	187

ZONAL LUMENS

Zone	Lumens
0	
0-10	52
10-20	141
20-30	199
30-40	218
40-50	197
50-60	152
60-70	97
70-80	43
80-90	10
90	
90-100	12
100-110	103
110-120	155
120-130	169
130-140	156
140-150	126
150-160	91
160-170	54
170-180	18
180	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	8491	5085	3534
55	8154	3625	2605
65	7636	2674	1554
75	6663	1377	243
85	4783	963	123

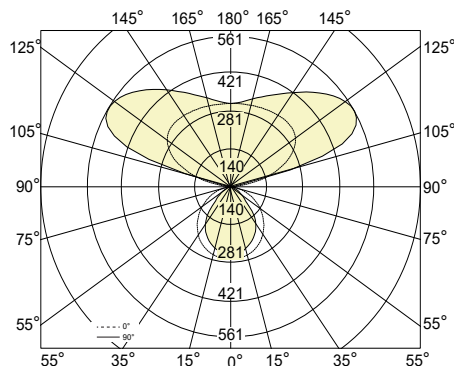
i All IES files are available for download at: www.axislighting.com

● PHOTOMETRIC DATA

SO Spotless lens

75% up / 25% down at 1200 lm/ft

PHOTOMETRIC CURVE



Lumens up: 1834 lm
Lumens down: 564 lm
Total lumens: 2398 lm (for 4ft)
Input Watts: 19.25 W
Efficacy: 125 lm/W

IES FILE: ZESQFDI-SL 75-25-1200-80-35-SO-2.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	271	271	271	271	271
5	270	267	263	260	260
15	263	251	243	238	236
25	247	229	219	213	211
35	220	197	186	177	172
45	183	159	142	117	100
55	140	115	77	58	52
65	92	68	36	25	22
75	44	22	9	3	2
85	4	0	0	0	0
90	1	1	1	1	1
95	36	34	12	10	10
105	153	190	252	252	242
115	255	286	372	487	543
125	311	341	409	503	551
135	327	353	404	465	495
145	325	344	379	414	429
155	319	330	352	369	376
165	314	318	328	336	339
175	311	311	313	314	314
180	310	310	310	310	310

ZONAL LUMENS

Zone	Lumens
0	
0-10	25
10-20	69
20-30	102
30-40	118
40-50	107
50-60	78
60-70	46
70-80	16
80-90	2
90	
90-100	27
100-110	213
110-120	374
120-130	376
130-140	318
140-150	240
150-160	163
160-170	93
170-180	30
180	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	4233	3300	2310
55	4005	2203	1501
65	3578	1406	855
75	2783	557	139
85	794	56	0

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