



MSO - microgroove spotless lens



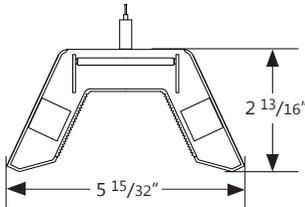
MAL - microgroove aluminum

Project _____

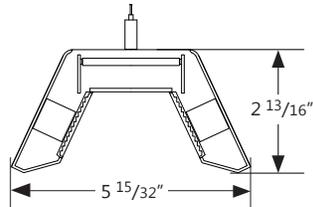
Type _____

Notes _____

MSO - microgroove spotless lens



MAL - microgroove aluminum



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	10.1 w/ft	89 lm/w	MSO
0up/100down at 900 lm/ft	-	900 lm/ft	11.8 w/ft	76 lm/w	MAL

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



Ordering Guide

ZELED	SL 0/100					
PRODUCT ID	LIGHT ENGINE	NOMINAL LUMENS/FT		CRI	COLOR TEMP.	SHIELDING
ZELED Pendant LED	SL 0/100 surroundlite 0%up/100%down-direct	300	300 lm/ft - Minimum	80 80 CRI	27 2700 K	MSO microgroove spotless lens
		700	700 lm/ft - Maximum for 90 CRI	90 90 CRI	30 3000 K	MAL microgroove aluminum*
		900	900 lm/ft - Maximum for 80 CRI		35 3500 K	
					40 4000 K	
Consult factory for other lumen packages.						* Standard white

SHIELDING FINISH (OPT.)	FIXTURE LENGTH	FINISH	VOLTAGE	DRIVER	CIRCUITS
W white - standard	2 2'	AP aluminum paint	UNV universal	DP integral driver 0-10V dimming 1%	1 1 circuit
C custom	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.	Come in 1' increments		Consult factory for 347 V * Only available with POE drivers.	Only integral 0-10V mini driver available * Specify system, see page 4	

MOUNTING/SUSPENSION	BATTERY (OPTIONAL)	REMOTE CONTROLS (OPTIONAL)	CUSTOM
CA(#) drywall+cable length (36" std.)	BR(#) remote battery pack	DS(#) daylight sensor	C custom
CT9(#) TB/TG 9/16+cable length (36" std.)		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.)			
SASL(#) 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	Remote only. See integrated controls guide for more details.	Please specify

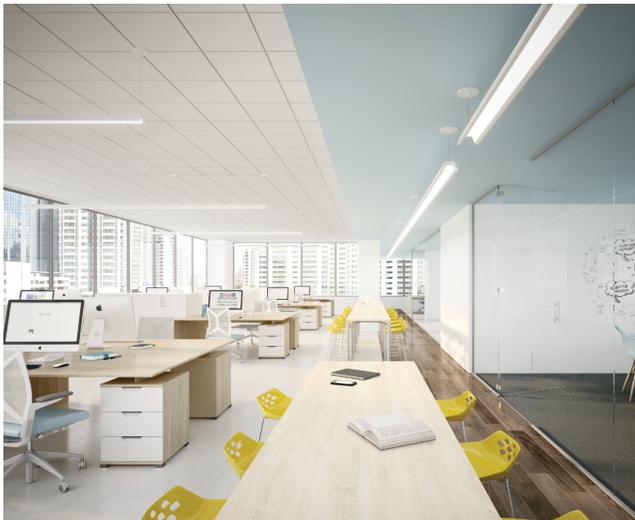


● SURROUNDLITE TECHNOLOGY

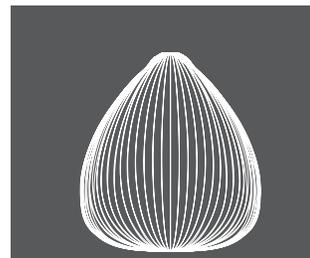
ZEN with SurroundLite provides the flexibility of high efficacy spherical three dimensional wide batwing distributions and shielding options that all result in true lighting effectiveness. ZEN with integral mini driver and a light guide with proper cutoff and no view of bugs or dust particles.

An innovative technology to get much more out of LEDs: Axis SurroundLite is based on the fundamental physics of how light interacts with matter. The specially engineered lightguide is made of precisely coded and aligned molecules that shape LED output in all three dimensions.

With SurroundLite extra-wide, multidimensional light distribution, light is directed in all three planes and sent in every corner of the room. SurroundLite brings the promise of balanced brightness, facilitating lighting design.



3D Polar Curve (SL 0/100)



● UNIQUE ZEN SHIELDING OPTIONS

A new linear downlight optical concept. A central surroundlite lightguide optic with highly efficient and comfortable micro groove side wall shielding for excellent shielding along and across.



MSO - microgroove spotless lens



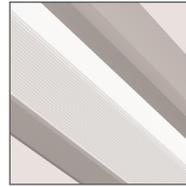
MAL - microgroove aluminum



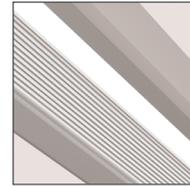
● LIGHT GUIDE

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.

● OPTICS



MSO microgroove
spotless lens

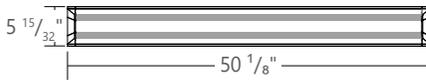


MAL microgroove
aluminum

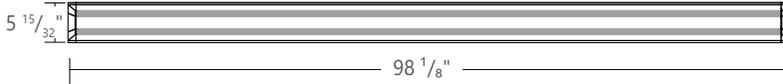
● LENGTHS

ZEN 4ft (4)

ZEN 4ft



ZEN 8ft



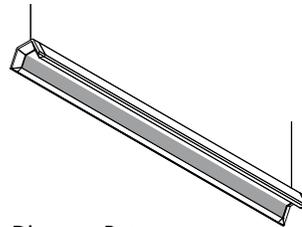
ZEN 12ft



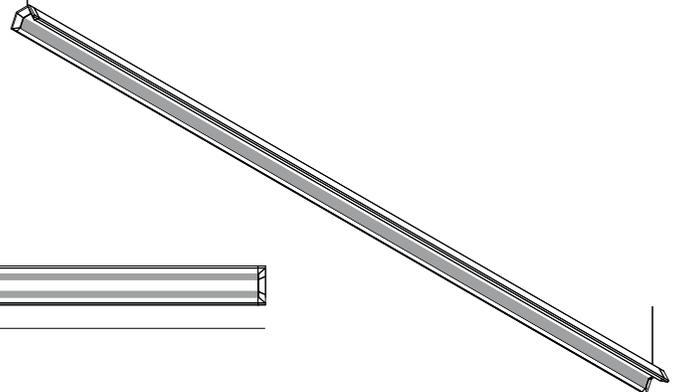
● SUSPENSION / MOUNTING SPACING

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

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



Distance Between
Mounting Points:
ZEN 12ft 144"



● SYSTEMS (S#)

Runs of ZEN 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.

● WEIGHT

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

● FINISH

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

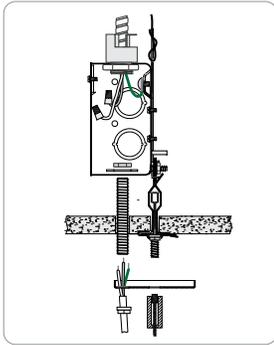
● APPROVALS

Certified to UL and CSA standards
Suitable for damp locations.





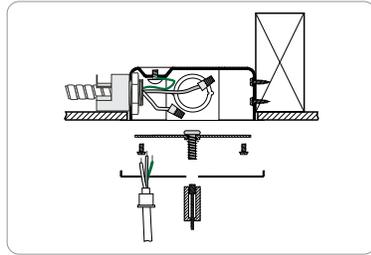
● MOUNTING OPTIONS



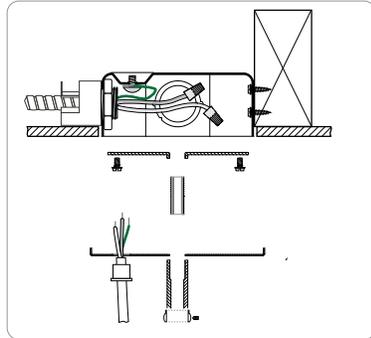
GT TILE CEILING - ON GRID

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.



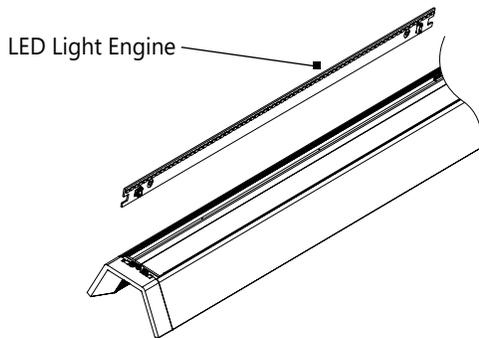
CA DRYWALL CEILING



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.



● 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)

● CONSTRUCTION

Housing	Extruded aluminum (0.075" nominal)
End Cap	Die cast aluminum (0.10" nominal)
Joiners	Die cast aluminum (0.10" nominal)
Interior Bracket	Die cast aluminum
Microgroove Lens	Uniform frosted acrylic lens
Microgroove Aluminum	White painted aluminum material

● ELECTRICAL

Power over Ethernet MOLEX POE drivers*	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.

● WARRANTY

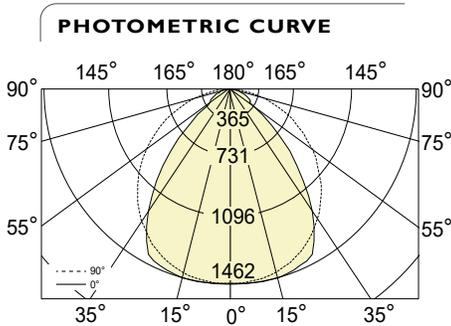
Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.



● PHOTOMETRIC DATA

Microgroove Aluminium (MAL)

ZELED-SL 0-100-900-80-35-MAL-4'-W-UNV-DP-1.ies
0% up / 100% down at 900 lm/ft



Lumen/ft: 900 lm/ft
Total lumens: 3583 lm (for 4ft)
Input Watts: 47.3 W
Efficacy: 76 lm/W

CRI: 80 shown
IES FILE: ZELED-SL 0-100-900-80-35-MAL-4'-W-UNV-DP-1.ies
TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1416	1416	1416	1416	1416
5	1413	1411	1413	1418	1421
15	1386	1392	1412	1433	1442
25	1322	1339	1387	1426	1443
35	1203	1234	1296	1239	1209
45	1021	1058	982	801	738
55	786	822	551	326	259
65	527	451	160	155	154
75	273	131	99	81	82
85	57	38	25	13	13
90	4	13	7	2	1

ZONAL LUMENS

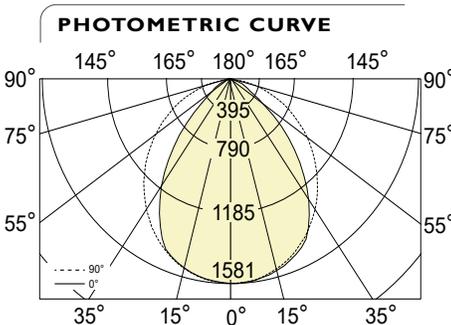
Zone	Lumens
0	
0-10	135
10-20	402
20-30	640
30-40	772
40-50	706
50-60	487
60-70	279
70-80	131
80-90	32
90	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	17679	16991	12770
55	16766	11758	5520
65	15271	4628	4470
75	12890	4665	3862
85	8048	3526	1809

Microgroove Spotless Lens (MSO)

ZELED-SL 0-100-900-80-35-MSO-4'-W-UNV-DP-1.IES
0% up / 100% down at 900 lm/ft



Lumen/ft: 900 lm/ft
Total Lumens: 3582 lm (for 4ft)
Input Watts: 40.2 W
Efficacy: 89 lm/W

CRI: 80 shown
ZELED-SL 0-100-900-80-35-MSO-4'-W-UNV-DP-1.IES
TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1580	1580	1580	1580	1580
5	1575	1573	1577	1576	1577
15	1520	1520	1526	1530	1532
25	1406	1412	1423	1427	1434
35	1243	1249	1260	1183	1158
45	1037	1043	952	813	772
55	801	789	590	412	368
65	545	463	245	165	158
75	287	165	104	84	82
85	64	43	29	18	19
90	4	14	7	1	1

ZONAL LUMENS

Zone	Lumens
0	
0-10	149
10-20	428
20-30	645
30-40	739
40-50	678
50-60	493
60-70	286
70-80	131
80-90	32
90	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	17944	16473	13355
55	17100	12586	7859
65	15787	7084	4586
75	13593	4896	3866
85	9037	4080	2648

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