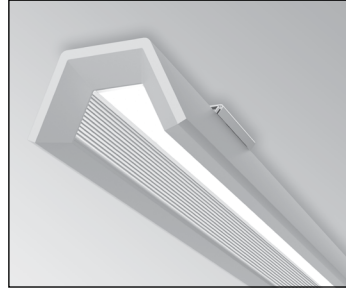


MSO - microgroove spotless lens



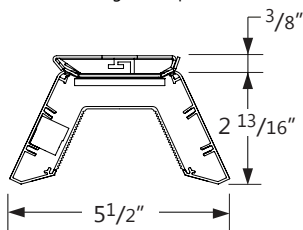
MAL - microgroove aluminum

Project \_\_\_\_\_

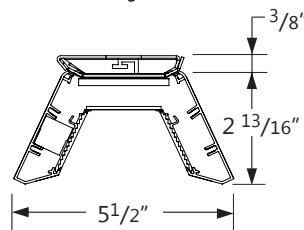
Type \_\_\_\_\_

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

ZESLED	SL 0/100	NOM. LUMENS/FT		CRI	COLOR TEMP.	SHIELDING
PRODUCT ID	LIGHT ENGINE					
ZESLED Surface 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 C custom	2 2' 3 3' 4 4' 5 5' 6 6' 7 7' 8 8' 12 12'	AP aluminum paint W white BLK black C custom	UNV universal DC low voltage*	DP integral driver 0-10V dimming 1% POE(#) POE drivers*	1 1 circuit + E(#) emergency section
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 driver available * Specify system, see page 4	

MOUNTING/SUSPENSION	BATTERY (OPTIONAL)	REMOTE CONTROLS (OPTIONAL)	CUSTOM
S surface ceiling	BR(#) remote battery pack	DS(#) daylight sensor DOS(#) daylight & occupancy sensor WC(#) wireless control dimming	C custom
	Not available with 347V Please consult factory	Remote only. <a href="#">See integrated controls guide for more details.</a>	Please specify



### ● SURROUNDLITE TECHNOLOGY

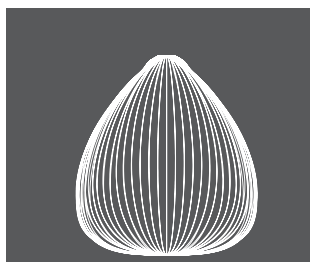
ZEN with SurroundLite provides the flexibility of high efficacy spherical three dimensional wide batwing distributions and shielding options that all result in true lighting effectiveness. ZEN with integral mini driver and a light guide with proper cutoff and no view of bugs or dust particles.

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.

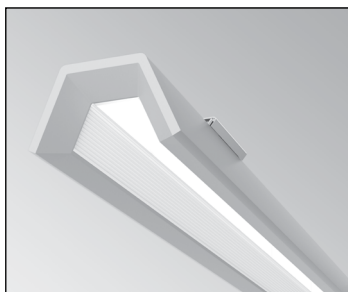


**3D Polar Curve (SL 0/100)**

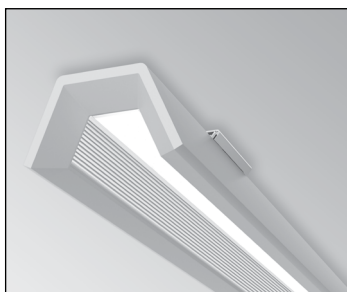


### ● UNIQUE ZEN SHIELDING OPTIONS

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



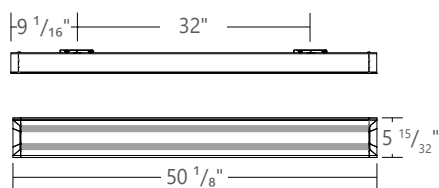
### ● LIGHT GUIDE

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.

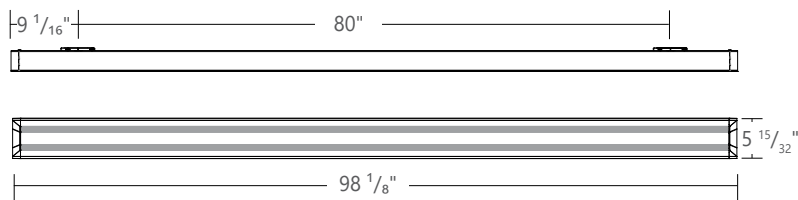
### ● LENGTHS

#### ZEN 4ft (4)

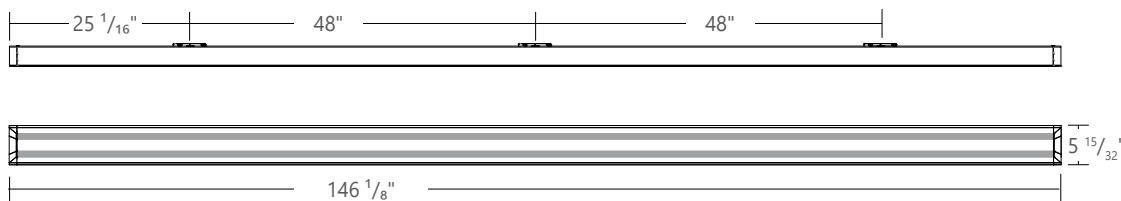
##### ZEN 4ft



##### ZEN 8ft



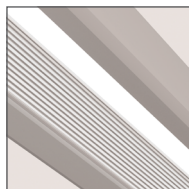
##### ZEN 12ft



### ● OPTICS



**MSO** microgroove  
spotless lens



**MAL** microgroove  
aluminum


### ● WEIGHT

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

### ● FINISH

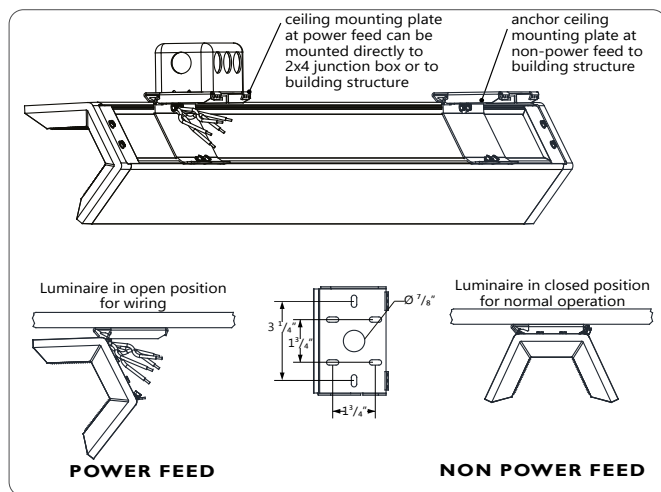
White, black, aluminum paint, powder coated and custom finishes are also available.

### ● APPROVALS

Certified to UL and CSA standards  Suitable for damp locations.



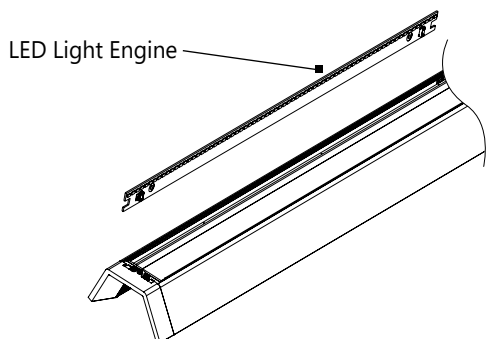
### ● MOUNTING



### S SURFACE MOUNT

### ● 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

<b>CRI</b>	Minimum 80 or 90 color rendering index
<b>CCT</b>	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.
<b>LED life</b>	Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
<b>Thermal Management</b>	Aluminum housing acting as the heat sink to maximize life.
<b>Environment</b>	Dry and damp rated for indoor use only in operating ambient temperatures of 0-40°C (32-104F)

### ● CONSTRUCTION

<b>Housing</b>	Extruded aluminum (0.075" nominal)
<b>End Cap</b>	Die cast aluminum (0.10" nominal)
<b>Mounting Brackets</b>	Cold rolled sheet steel painted (16 gauge)
<b>Interior Bracket</b>	Die cast aluminum
<b>Microgroove Lens</b>	Uniform frosted acrylic lens
<b>Microgroove Aluminum</b>	White painted aluminum material

### ● ELECTRICAL

<b>Power over Ethernet POE drivers*</b>	MOLEX IGOR SMARTENGINE O - Other (Consult factory)
<b>Emergency</b>	Remote emergency battery pack or emergency circuit optional.
<b>Input Voltage</b>	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

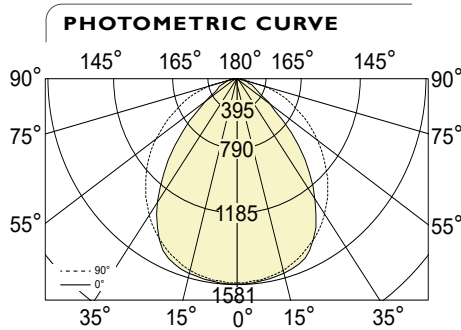
Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at [axislighting.com](http://axislighting.com).



## ● PHOTOMETRIC DATA

### Microgroove Spotless Lens (MSO)

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



**Lumen/ft up: 0 lm/ft**  
**Lumen/ft down: 896 lm/ft**  
**Total Lumens: 3582 lm (for 4ft)**  
**Input Watts: 40.2 W**  
**Efficacy: 89 lm/W**

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

### CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	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

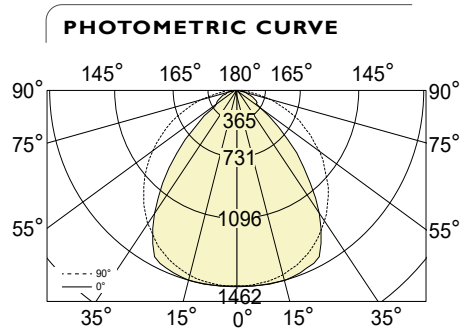
	Lumens
Zone	
0	
0-10	149
10-20	428
20-30	645
30-40	739
40-50	678
50-60	493
60-70	286
70-80	131
80-90	32
90	

### LUMINANCE DATA (cd/m²)

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

### Microgroove Aluminium (MAL)

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



**Lumen/ft up: 0 lm/ft**  
**Lumen/ft down: 896 lm/ft**  
**Total lumens: 3583 lm (for 4ft)**  
**Input Watts: 47.3 W**  
**Efficacy: 76 lm/W**

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

### CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	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

	Lumens
Zone	
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)

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