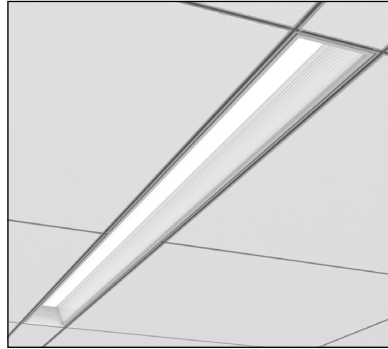


Zen Square

LINEAR - RECESSED



MSO - microgroove spotless lens

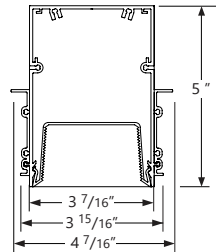


MAL - microgroove aluminum

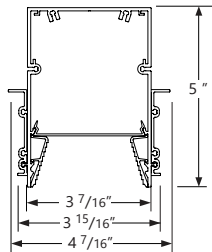
Project _____

Type _____

Notes _____



MSO - microgroove spotless lens



MAL - microgroove aluminum

Ordering Guide

ZERLED	SQ					
PRODUCT ID	SHIELDING SHAPE	NOMINAL LUMENS/FT	CRI	COLOR TEMP.	SHIELDING	FIXTURE LENGTH
ZERLED Zen Recessed LED	SQ square regress	400 400 lm/ft - Minimum 1000 1000 lm/ft - Maximum	80 80 CRI 90 90 CRI	27 2700 K 30 3000 K 35 3500 K 40 4000 K	MSO microgroove spotless lens MAL microgroove aluminum	2 2' 3 3' 4 4' 5 5' 6 6' 7 7' 8 8' 12 12' S(L) system run
		Outputs between listed min and max are available. Consult factory for outputs outside of the listed range.				

FINISH	VOLTAGE	DRIVER	CIRCUITS
W white C custom	120 120 V 277 277 V 347 347 V UNV universal DC low voltage*	DP dimming (0-10V) 1% LT Lutron BI bi-level dimming O(#) other** POE(#) POE drivers*	1 1 circuit +E(#) emergency section
Consult factory for 347 V * Only available with POE drivers		* Specify system, see page 2 ** Please consult factory; see page 2	

MOUNTING/SUSPENSION	BATTERY (OPTIONAL)	OTHER (OPTIONAL)	REMOTE CONTROLS (OPTIONAL)	END CAP (OPTIONAL)	CUSTOM
TB9 t-bar 9/16" TB15 t-bar 15/16" ST screw slot t-bar TG9 tegular 9/16" TG15 tegular 15/16" DF drywall flange DS drywall spackle flange	B(#) battery pack	CP Chicago plenum* FW flex whip (6' std)**	DS(#) daylight sensor DOS(#) daylight & occupancy sensor WC(#) wireless control dimming	OPDSL open spackle end cap left OPDSR open spackle end cap right OPDSB open spackle end cap both sides	C custom
Not available with 347V Please consult factory		Not available with 347V * Luminaires with Chicago plenum option are shipped with 6' of FMT cable. ** Other lengths available; please consult factory.	Remote only. See integrated controls guide for more details.	Only available with MSO shielding.	Please specify

PERFORMANCE PER LINEAR FOOT AT 3500K

DISTRIBUTION	NOMINAL LUMEN OUTPUT		INPUT WATTS	EFFICACY	SHIELDING
	UP	DOWN			
0up/100down at 1000 lm/ft	-	1000 lm/ft	10 w/ft	99 lm/w	MSO
0up/100down at 1000 lm/ft	-	1000 lm/ft	10.1 w/ft	98 lm/w	MAL

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



Zen Square

LINEAR - RECESSED



● LED UPGRADE / REPLACEMENT

All LED light engines used are field replaceable and upgradable to ensure the lighting system will last for years.

● 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)

● ELECTRICAL

Lutron driver	LDE1 - Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black
Other drivers**	DALI - Digital Addressable Lighting Interface DMX - Digital Multiplex Xitanium SR - For wireless sensor
Power over Ethernet	MOLEX
POE drivers*	IGOR SMARTENGINE O - Other (Consult factory)
Emergency	Integral emergency battery pack or emergency circuit optional.
Input Voltage	120V, 277V, 347V, UNV.
Flex Whip	Shipped in a separate box for contractors to install

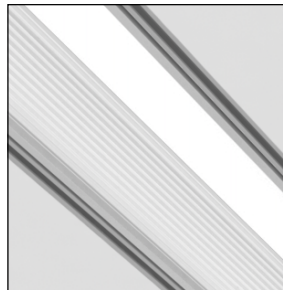
i Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

● UNIQUE ZEN SHIELDING OPTIONS

A new linear downlight optical concept. A Zen spotless optic with highly efficient and comfortable micro groove side walls for excellent shielding along and across.



MSO - microgroove spotless lens



MAL - microgroove aluminum

● WEIGHT

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

● FINISH

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

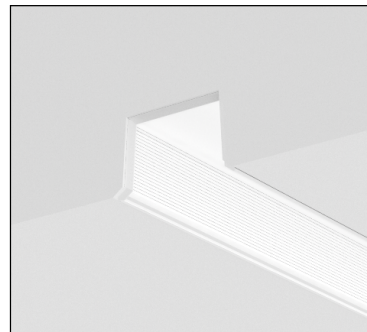
● APPROVALS

Certified to UL and CSA standards 
Suitable for damp locations.
Meets CEC requirements (Chicago plenum)

● CONSTRUCTION

Housing	Extruded aluminum (0.075" nominal)
End Cap	Die cast aluminum (0.10" nominal)
Mounting Brackets	Cold rolled sheet steel painted (16 gauge)
Microgroove Lens	Uniform frosted acrylic lens

● END CAP OPTION



OPDSL - open spackle end cap left (shown)
(Only available with MSO shielding)

● WARRANTY

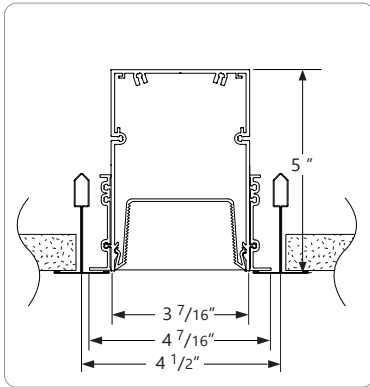
Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.

Zen Square

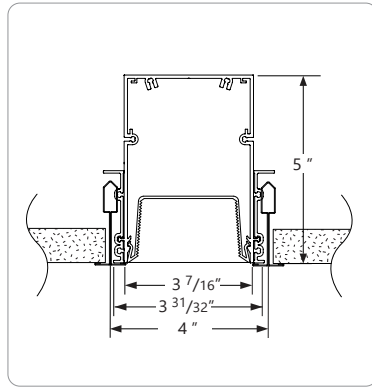
LINEAR - RECESSED



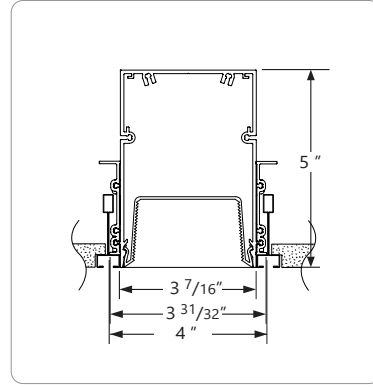
● TB CEILING MOUNTING OPTIONS



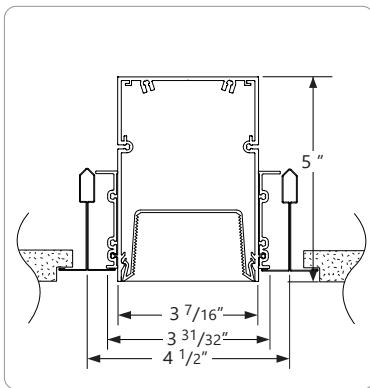
TB15 15/16" T-BAR



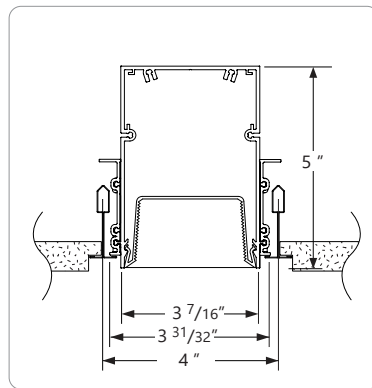
TB9 9/16" T-BAR



ST SCREW SLOT T-BAR

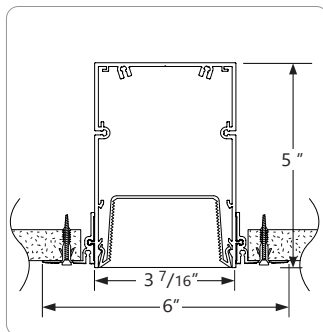


TG15 15/16" TEGULAR

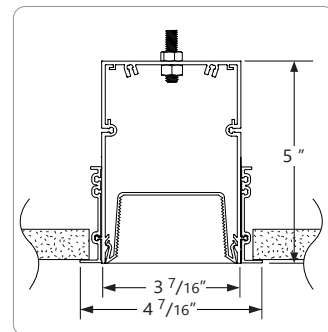


TG9 9/16" T-TEGULAR

● DRYWALL CEILING MOUNTING OPTIONS



DS SPACKLE FLANGES



DF VISIBLE FLANGES WITH
1/4-20 STUD MOUNTING

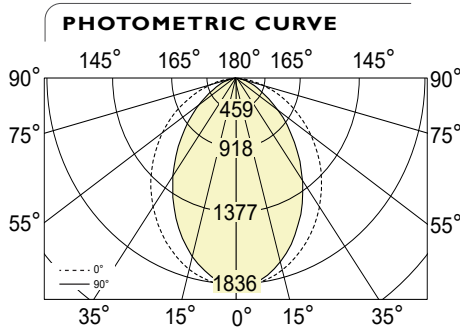
i Specification sheets and installation sheets for all mountings for ZEN luminaires are available for download at www.axislighting.com



● PHOTOMETRIC DATA

MSO Microgroove Spotless Lens

1000 lm/ft



Lumen/ft : 1000 lm/ft
Total Lumens: 3979 lm (for 4ft)
Input Watts: 40.1 W
Efficacy: 99 lm/W

CRI:80 shown
 IES FILE: ZERLED-SQ-1000-80-35-MSO-4.IES
 TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1836	1836	1836	1836	1836
5	1828	1828	1827	1826	1826
15	1750	1745	1712	1684	1674
25	1602	1570	1501	1446	1425
35	1400	1340	1234	1150	1122
45	1158	1071	935	832	799
55	888	780	627	528	501
65	599	482	346	277	264
75	313	214	147	129	125
85	78	42	33	28	28
90	4	3	2	2	2

ZONAL LUMENS

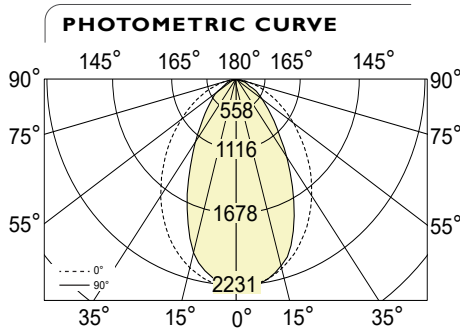
Zone	Lumens
0	
0-10	172
10-20	477
20-30	683
30-40	763
40-50	718
50-60	571
60-70	370
70-80	182
80-90	44
90	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	15790	12752	10896
55	14922	10530	8417
65	13670	7884	6027
75	11645	5486	4642
85	8627	3608	3053

MAL Microgroove Aluminium

1000 lm/ft



Lumen/ft : 1000 lm/ft
Total Lumens: 3972 lm (for 4ft)
Input Watts: 40.5 W
Efficacy: 98 lm/W

CRI:80 shown
 IES FILE: ZERLED-SQ-1200-80-35-MAL-4.IES
 TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	2225	2225	2225	2225	2225
5	2212	2217	2218	2220	2224
15	2090	2096	2083	2065	2060
25	1860	1859	1806	1660	1611
35	1546	1538	1331	1112	1047
45	1184	1155	871	677	629
55	830	761	518	406	387
65	516	431	286	234	216
75	261	191	117	109	107
85	68	39	35	31	33
90	4	3	3	3	3

ZONAL LUMENS

Zone	Lumens
0	
0-10	208
10-20	572
20-30	774
30-40	779
40-50	657
50-60	486
60-70	306
70-80	150
80-90	39
90	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	16146	11876	8571
55	13952	8709	6502
65	11767	6513	4927
75	9701	4353	3976
85	7565	3892	3625

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