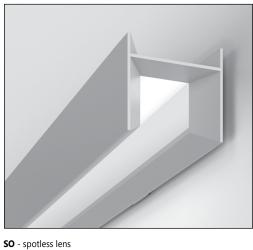
WALL DIRECT



Project

Type

Notes





MSO - micrgroove spotless lens



MAL - microgroove aluminum









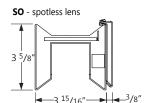
NOMINAL LUMENS/FT

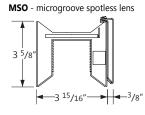
	SL 0/100
	Lumens/ft
	800
SO or MSO	650
	550
	400
	750
MAL*	600
IVIAL	500
	400

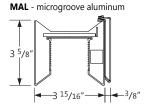
INPUT WATTS
W/ft
12.0
9.6
8.0
6.0
12.0
9.6
8.0
6.0

90 CRI only
80 CRI only
For both 80 and 90 CRI

*Lumen values are based upon a white finish, lumen values may vary for custom finishes







Ordering Guide

Z	ESQWD												
PR	ODUCT ID		LIGHT ENGINE	NOM	MINAL LUMENS/FT		CRI	со	LOR TEMP.		SHIELDING	SH	IELDING FINISH (OPTIONAL)
ZESQWD	Zen Square Wall Direct	SL 0/100	surroundlite 0%up100%down	#	#			30 35	2700 K 3000 K 3500 K 4000 K	MSO	spotless lens microgroove spotless lens microgroove aluminum *		white - standard custom
				Applies to	above for lumen selection both UP & DOWN. ctory for other lumen packages	bot	lies to n UP & VN.		olies to both & DOWN.	* Stand	lard white		Ilding finish option is MAL option only.

ı	FIXTURE LENGTH FINISH		VOLTAGE			DRIVER	CIRCUITS		
2	2'	AP	aluminum paint	UNV	universal	MD	integral mini driver 0-10V dimming 2%	1	1 circuit
3	3'	W	white					+E(#)	emergency section
4	4'	BLK	black						
5	5'	c	custom						
6	6'								
7	7'								
8	8'								
12	12'								
S#	system run								
All lengt	hs in 1' increments			Consult f	factory for 347 V	Only integr	al 0-10V mini driver available		

BATTERY (OPTIONAL)		END CAP (OPTIONAL)		REMOTE CONTROLS (OPTIONAL)			CUSTOM	
В#	remote battery pack	SE	slotted end cap		daylight sensor daylight & occupancy sensor	С	custom	
Please consult factory			ith regular end cap. as standard; 2 for more details.	Applies to bo Remote only.	th UP & DOWN.	Please	specify	

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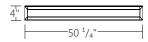
LIGHT GUIDE

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 lightquide 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.

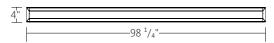
LENGTHS

2' to 12' in 1 foot increments

H 4ft



H8ft



H 12ft



• 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.

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

FINISH

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

APPROVALS

Certified to UL and CUL standards Suitable for damp locations.



OPTICS





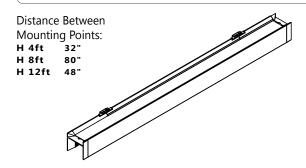


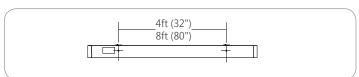
MSO microgroove spotless lens



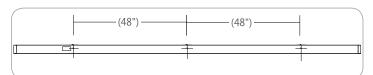
MAL microgroove aluminum

MOUNTING SPACING



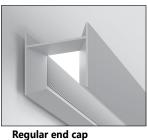


For 4' to 8' luminaires.

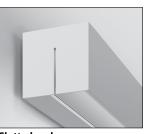


For 9' to 12' luminaires.

• END CAP OPTIONS



Standard



Slotted end cap Optional

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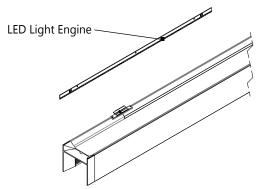
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● LED UPGRADE / REPLACEMENT

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 Aluminum housing acting as the heat sink to

Management maximize life.

Environment Dry and damp rated in operating ambient

temperatures of 0-40°C (32-104F)

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

Microgroove Lens Uniform frosted acrylic lens

Microgroove Aluminum White painted aluminum material

Mounting Brackets Cold rolled sheet painted (16 gauge)

• ELECTRICAL

Emergency Remote emergency battery pack or

emergency circuit optional.

Input Voltage UNV (120-277 V)

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



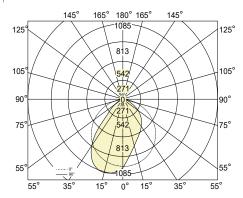
WALL DIRECT



Microgroove Aluminium (MSO)

HWD-SL0/100-550-80-35-MSO-4.IES 0% up / 100% down at 550 lm/ft

PHOTOMETRIC CURVE



Lumens up: 0 lm Lumens down: 2198 lm Total lumens: 2198 lm (for 4ft)

Input Watts: 32.06 W Efficacy: 69 lm/W

CRI:80 shown

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles							
Vertical Angle	0	22.5	45	67.5	90			
0	964	964	964	964	964			
5	955	909	873	850	846			
15	931	804	721	679	669			
25	879	697	604	568	557			
35	796	589	506	477	470			
45	682	476	410	385	377			
55	540	363	307	270	257			
65	375	247	186	138	125			
75	197	127	65	31	24			
85	41	18	10	4	3			
90	3	- 11	7	2	2			

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	90
10-20	253
20-30	379
30-40	442
40-50	412
50-60	318
60-70	203
70-80	85
80-90	17
90	0

LUMINANCE DATA (cd/m²)

	Horizontal Angles						
Vertical Angle	0 45 90						
45	15245	5710	4593				
55	14662	4514	3212				
65	13465	2977	1657				
75	10974	1178	354				
85	5385	214	55				