



A	B	C	D	S1	S2
4.7	0.625	15.4	11.4	9.5	11.3
126.2 mm	17.4 mm	391.2 mm	289.6 mm	241.3 mm	287.0 mm

### SGE10LEDOS - TRIM FLANGE / NON-IC RATED

#### APPLICATION

10" LED Recessed open aperture downlight for general downlighting.

#### FEATURES

Two-stage optical system for smooth light distribution. Zhaga International Standard LED module for ease of maintenance and replacement. Shallow plenum design. Tool-less LED module, driver and J-Box access. Multi-Bar mounting brackets. BH27 Standard mounting bars included. Posi-lock trim retention torsion springs. Integral 0.625" collar.

#### TRIM FINISH

A variety of architectural powdercoat and anodized finishes are available. Matte white flange is standard.

#### ELECTRONICS

LED module features high brightness white Osram LEDs. 3-step MacAdam Ellipse binning and CRI 84 minimum. Full range of electronic 120V/277V and dimming drivers.

#### CONSTRUCTION

Housing/frame constructed of #20 ga. galvanized steel to resist corrosion. Self-flanged one piece trim spun from 0.063" thick high purity aluminum and finished to specification. Passive machined aluminum heatsink.

#### CODE COMPLIANCE

BAA Compliant. Non-IC rated. ETL certified to meet US and Canadian standards. Suitable for dry or damp locations. Optional Wet location. LM79/LM80/TM21 data available. Manufactured and tested to UL standards No. 1598/8750.

#### WATTAGE TO LUMENS UPDATE

PART NUMBER	SOURCE LUMENS <sup>1</sup>	DELIVERED LUMENS <sup>2</sup>	SYSTEM WATTS	LPW
SGE10LEDOS10L	1100	860	11	78
SGE10LEDOS15L	1500	1066	13	82
SGE10LEDOS20L	2000	1826	20	91
SGE10LEDOS30L	3000	2510	28	90
SGE10LEDOS45L	4500	3714	41	91

SERIES	LUMENS <sup>1</sup>	CCT	DRIVER / VOLTAGE <sup>3</sup>	OPTIONS <sup>4</sup>	TRIM	FINISH	TRIM OPTIONS	
SGE10LEDOS	10L	1100 Lm	27K 2700K	E_ Electronic Driver	1 120V	AR1023OS	MW <sup>10</sup> Matte White	SO <sup>12</sup> Micro Prism Solite™ Lens
	15L	1500 Lm	30K 3000K	DS10_ 10%, 0-10V				
	20L	2000 Lm	35K 3500K	DO10_ 1%, 0-10V	H12 12" - 24" Expandable Bars	SG Semi-Diffuse	FG Frosted Glass Lens	
	30L	3000 Lm	40K 4000K	DS2W1 1%, ELV/MLV, 120V	H06 6" - 12" Expandable Bars	HZ Haze Full Diffuse	GS Gasket	
	45L	4500 Lm	40K 4000K	DLTE1 1% Lutron® 2-Wire Forward Phase, 120V	CB24 24" C-Channel Bars	PT Platinum Silver	WL Wet Location	
			DL3E 1% Lutron® EcoSystem®, Fade	FS Fusing	EB Fixture Painted Black	BZ Bronze	EMIT <sup>9</sup> Emergency Test Switch in Trim	
			EL10_ 1%, eldoLED	CR Corrosion Resistant	EB Fixture Painted Black	OB Oil Rubbed Bronze	PF <sup>13</sup> Polished Flange	
			ED01_ 0.1%, eldoLED	PR <sup>6</sup> Deep Ceiling Extension	CR Corrosion Resistant	AS Anodic Sapphire	AMB Anti-Microbial Finish	
			DALI_ DALI Control	GR Goof Ring	GR Goof Ring	AN Anodic Natural		
				ZIG <sup>7</sup> ZigBee Module	ZIG <sup>7</sup> ZigBee Module	AC Anodic Champagne		
				BLU <sup>7</sup> Bluetooth LE	BLU <sup>7</sup> Bluetooth LE	AZ Anodic Bronze		
				EM <sup>8</sup> 7W Emergency Battery Test Switch Remote	EM <sup>8</sup> 7W Emergency Battery Test Switch Remote	AK Anodic Black		
				EMIT <sup>9</sup> 7W Emergency Battery Test Switch in Trim	EMIT <sup>9</sup> 7W Emergency Battery Test Switch in Trim	AM Anodic Malachite		
				AMB Anti-Microbial Finish	AMB Anti-Microbial Finish	SN Sun Gold		
						CO Copper Metallic		
						GH Graphite		
						CC <sup>11</sup> Custom Color		

EXAMPLE: SGE10LEDOS20L35KE1/AR1023OSMWSO

NOTES:  
 1 Nominal Source Lumens at 35K 2 Nominal Delivered Lumens at 35K with MW-SO 3 Contact Factory for Additional Options 4 See Product Options Page for Details 5 Standard Bar Hangers 6 Contact Factory  
 7 Order DS10/2 When Specifying ZIG or BLU 8 Standard EM 9 EMIT Suffix Required on Trim and Housing 10 Standard Finish 11 Contact Factory for Special Finishes 12 Standard Lens 13 Flange and Reflector Same Finish



PROJECT: \_\_\_\_\_  
 TYPE: \_\_\_\_\_



Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.

# 10" ROUND DOWNLIGHT OS SERIES / PHOTOMETRIC DATA

recessed  
fixtures



## SGE10LEDOS 45L 35K XX AR1023OS MW SO

CANDLEPOWER CURVE TEST SP-00690_4	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0°	0° - 10° 224 5%	5.5'	77 fc	5.6'	13 fc	9'	6'	98	0.95	117	1.36
	0°	0° - 20° 860 20%	6.5'	55 fc	6.6'	9 fc	12'	8'	66	0.64	55	0.64
	5°	0° - 30° 1829 42%	7.5'	41 fc	7.6'	7 fc	16'	10'	33	0.32	27	0.32
	15°	0° - 40° 2930 68%	8.5'	32 fc	8.6'	6 fc	Delivered Illuminance Rating: (DIR)		104 FC per W/Sq. Ft.		86 FC per W/Sq. Ft.	
	25°	0° - 60° 4198 97%	10.0'	23 fc	10.2'	4 fc	Recessed mounting Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 2.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 2.5' x 2.50 * Average Footcandles at 2.5' Above Floor					
	35°	0° - 80° 4295 100%	12.0'	16 fc	12.2'	3 fc						
	45°	0° - 90° 4302 100%	14.0'	12 fc	14.2'	2 fc						
	55°	373	16.0'	9 fc	16.3'	2 fc						
	90°	1	Total 4313 100%									

Delivered Lumens: 4313  
Luminaire Watts: 40  
LER: 107.83

CP at 0° (Nadir): 2320  
CRI: 80+

Beam Angle: 91°  
Spacing Ratio: 1.25

Lumen Multiplier: 10L x 0.23, 15L x 0.32, 20L x 0.42, 30L x 0.6  
CCT Multiplier: 27K x 0.96, 30K x 0.99, 40K x 1.03

## SGE10LEDOS 45L 35K XX AR1023OS MW GL

CANDLEPOWER CURVE TEST SP-00690_3	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0°	0° - 10° 210 5%	5.5'	72 fc	5.8'	12 fc	9'	6'	93	0.95	111	1.36
	0°	0° - 20° 807 20%	6.5'	52 fc	6.8'	8 fc	12'	8'	63	0.64	52	0.64
	5°	0° - 30° 1719 42%	7.5'	39 fc	7.9'	6 fc	16'	10'	31	0.32	26	0.32
	15°	0° - 40° 2760 67%	8.5'	30 fc	8.9'	5 fc	Delivered Illuminance Rating: (DIR)		99 FC per W/Sq. Ft.		82 FC per W/Sq. Ft.	
	25°	0° - 60° 4006 98%	10.0'	22 fc	10.5'	4 fc	Recessed mounting Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 2.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 2.5' x 2.50 * Average Footcandles at 2.5' Above Floor					
	35°	0° - 80° 4090 100%	12.0'	15 fc	12.6'	2 fc						
	45°	0° - 90° 4096 100%	14.0'	11 fc	14.7'	2 fc						
	55°	287	16.0'	9 fc	16.8'	1 fc						
	90°	1	Total 4107 100%									

Delivered Lumens: 4107  
Luminaire Watts: 40  
LER: 102.68

CP at 0° (Nadir): 2176  
CRI: 80+

Beam Angle: 93°  
Spacing Ratio: 1.26

Lumen Multiplier: 10L x 0.23, 15L x 0.32, 20L x 0.42, 30L x 0.6  
CCT Multiplier: 27K x 0.96, 30K x 0.99, 40K x 1.03

## SGE10LEDOS 45L 35K XX AR1023OS MW FG

CANDLEPOWER CURVE TEST SP-00690_2	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0°	0° - 10° 188 5%	5.5'	65 fc	5.7'	11 fc	9'	6'	84	0.95	100	1.36
	0°	0° - 20° 710 19%	6.5'	46 fc	6.7'	8 fc	12'	8'	57	0.64	47	0.64
	5°	0° - 30° 1481 39%	7.5'	35 fc	7.7'	6 fc	16'	10'	28	0.32	23	0.32
	15°	0° - 40° 2350 63%	8.5'	27 fc	8.8'	5 fc	Delivered Illuminance Rating: (DIR)		89 FC per W/Sq. Ft.		73 FC per W/Sq. Ft.	
	25°	0° - 60° 3579 95%	10.0'	20 fc	10.3'	3 fc	Recessed mounting Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 2.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 2.5' x 2.50 * Average Footcandles at 2.5' Above Floor					
	35°	0° - 80° 3733 99%	12.0'	14 fc	12.4'	2 fc						
	45°	0° - 90° 3742 100%	14.0'	10 fc	14.4'	2 fc						
	55°	494	16.0'	8 fc	16.5'	1 fc						
	90°	2	Total 3754 100%									

Delivered Lumens: 3754  
Luminaire Watts: 40  
LER: 93.85

CP at 0° (Nadir): 1960  
CRI: 80+

Beam Angle: 92°  
Spacing Ratio: 1.18

Lumen Multiplier: 10L x 0.23, 15L x 0.32, 20L x 0.42, 30L x 0.6  
CCT Multiplier: 27K x 0.96, 30K x 0.99, 40K x 1.03