

| A | B | C | D | S1 | S2 |
|-----------------|-------------------|------------------|-----------------|-----------------|-----------------|
| 4.7 126.2 mm | 0.625 15.87 mm | 14.0 355.6 mm | 9.3 236.2 mm | 7.9 200.7 mm | 9.2 233.7 mm |

8" ROUND LED DOWNLIGHT

OS SERIES / 35 WATT MAX



SGE8LEDOS

APPLICATION

8" LED recessed open aperture downlight for general downlighting.

FEATURES

Delivers a range of 530-2675 delivered lumens. Two-stage optical system for smooth light distribution. Zhaga 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. Post-lock trim retention torsion springs. Integral 0.625" collar, with plaster option (PR) for up to 3" thick ceiling.

FINISH

Variety of powdercoat and anodized finishes available.

ELECTRONICS

LED module features high brightness white Nichia LEDs. 3-step MacAdam Ellipses binning and CRI 84 minimum. Variety of electronic 120v/277v and dimming drivers.

CONSTRUCTION

Extruded and machined 6063-H32 aluminum heatsink. Titanium gasket for optimal thermal management. Housing/frame constructed of #20 ga. galvanized steel to resist corrosion. Self flanged one piece trim spun from 0.063" high purity aluminum and finished to specification.

CODE COMPLIANCE

Energy Star qualified. ARRA Compliant. Non-IC rated. ETL/UL/CSA listed for damp locations. LM79/LM80/TM21 data available. Optional Wet location. Manufactured and built to UL standards No. 1598/8750.

| SERIES | LED | KELVIN | DRIVER | OPTIONS | TRIM / FINISH | TRIM OPTIONS |
|-----------------------------------------------|---------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| SGE8LEDOS | 9W 596 Lumens* | 27K-2700° K 30K-3000° K 35K-3500° K 40K-4000° K | E1-Electronic, 120v E2-Electronic, 277v DO2W1-Spectrum 2 Wire Phase Dimming, 120v 9w Only DO101-Spectrum 0-10v Dimming, 120v to1% DO102-Spectrum 0-10v Dimming, 277v to1% DS101-Spectrum 0-10v Dimming, 120v to10% DS102-Spectrum 0-10v Dimming, 277v to10% DLTE1-Lutron 2 Wire Phase Dimming, 120v Only DL331-Lutron Hi Lume Dimming, 120v DL332-Lutron Hi Lume Dimming, 277v DL3E1-Lutron ECO System Dimming, 120v DL3E2-Lutron ECO System Dimming, 277v Contact Factory for Additional Dimming or Control Options | BH27-27" Mounting Bars (Standard) BH6-6"-12" Expandable Mounting Bars BH12-12"-24" Expandable Mounting Bars CB24-C-Channel Bars FS-Fusing EM1-Emergency Battery Pack 120v EM2-Emergency Battery Pack 277v CR-Corrosion Resistant PR-Plaster Ring TBC-T-bar Clips (for BH27) GR-Goof Ring EB-Eco Black Powdercoat See Product Options Page For Ordering, Detail and Specifications | AR8223OS- 8" Trim MW-Matte White SG-Semi-Diffuse Low Iridescent CL-Specular Alzak HZ-Matte Low Iridescent MB-Matte Black PT-Platinum PF-Polished Flange WE-Wheat Alzak CC-Custom Color Matte White Flange Standard | SO-Micro Prism Solite™ Lens Standard GL-Clear Glass Lens FG-Frosted Glass Lens GS-Gasket for Flange WL-Wet Location |
| | 14W 1064 Lumens* | | | | | |
| | 25W 1736 Lumens* | | | | | |
| | 35W 2599 Lumens* | | | | | |
| *E1-AR8223OS-MW-SO Delivered Lumens at 3500°K | | | | | | |

EXAMPLE: SGE8LEDOS25W35KE1/AR8223OS MW SO

Dimensions and values shown are nominal. Spectrum Lighting is continually improving products and reserves the right to make changes that will not alter performance or appearance with or without written notice.



| | |
|-----------|-------|
| PROJECT: | TYPE: |
| CAT. NO.: | |



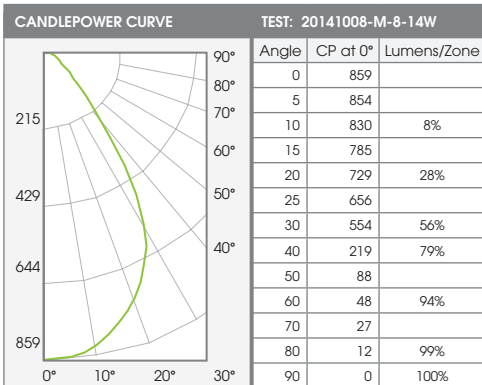
8" ROUND LED DOWNLIGHT

recessed fixtures

PHOTOMETRY



SGE8LEDOS14W35KE1-AR8223OSMWSO



Delivered Lumens: 1064
Luminaire Watts: 14.4
LER: 74

CP @ 0° (Nadir): 859
Beam Angle: 67°
Spacing Ratio: 1.04

| SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES AND BEAM ANGLE DIAMETERS | | | |
|--------------------------------------------------------------------------|--------------|--------------------|--------------|
| Mounting Height* | FC at Center | Diameter of Beam** | FC at Beam** |
| 5.5' | 28 | 7.3' | 10 |
| 6.5' | 20 | 8.6' | 7 |
| 7.5' | 15 | 9.9' | 5 |
| 8.0' | 13 | 10.6' | 5 |
| 8.5' | 12 | 11.3' | 4 |
| 9.0' | 11 | 11.9' | 4 |
| 10.0' | 9 | 13.2' | 3 |
| 11.0' | 7 | 14.6' | 2 |

CCT: 3500° K CRI: 84

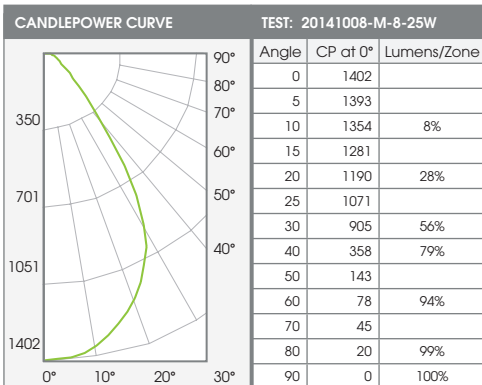
CCT Output Factors: 40K 103%, 30K 95%, 27K 89%

Multiplier for FC Values at 9W: 0.56

| MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT | | | | | |
|-----------------------------------------------------------------------------------------------------|-----------------|-------------------|-----------|--------------------|-----------|
| Ceiling Height | Fixture Spacing | RCR 2: Large Room | | RCR 4: Medium Room | |
| | | FC* | W/Sq. Ft. | FC* | W/Sq. Ft. |
| 8' | 4' | 57 | 0.79 | 55 | 0.90 |
| | 5' | 41 | 0.56 | 41 | 0.68 |
| 9' | 5' | 37 | 0.51 | 39 | 0.64 |
| | 6' | 26 | 0.35 | 31 | 0.51 |
| 10' | 5' | 33 | 0.46 | 30 | 0.48 |
| | 6' | 29 | 0.40 | 24 | 0.40 |
| 11' | 6' | 27 | 0.36 | 23 | 0.38 |
| | 7' | 20 | 0.27 | 18 | 0.29 |

Delivered Illuminance Rating: (DIR) 73 FC per W/Sq. Ft. 61 FC per W/Sq. Ft.
*Average Footcandles at 2.5' above floor.

SGE8LEDOS25W35KE1-AR8223OSMWSO



Delivered Lumens: 1736
Luminaire Watts: 25.6
LER: 68

CP @ 0° (Nadir): 1402
Beam Angle: 67°
Spacing Ratio: 1.04

| SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES AND BEAM ANGLE DIAMETERS | | | |
|--------------------------------------------------------------------------|--------------|--------------------|--------------|
| Mounting Height* | FC at Center | Diameter of Beam** | FC at Beam** |
| 6.5' | 33 | 8.6' | 12 |
| 7.5' | 25 | 9.9' | 9 |
| 8.5' | 22 | 10.6' | 8 |
| 9.0' | 19 | 11.3' | 7 |
| 9.5' | 17 | 11.9' | 6 |
| 10.0' | 14 | 13.2' | 5 |
| 11.0' | 12 | 14.6' | 4 |
| 12.0' | 10 | 15.9' | 3 |

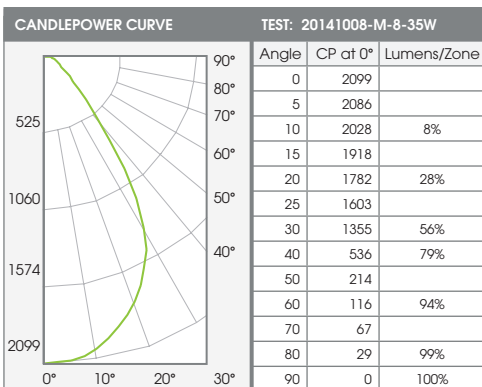
CCT: 3500° K CRI: 84

CCT Output Factors: 40K 103%, 30K 95%, 27K 89%

| MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT | | | | | |
|-----------------------------------------------------------------------------------------------------|-----------------|-------------------|-----------|--------------------|-----------|
| Ceiling Height | Fixture Spacing | RCR 2: Large Room | | RCR 4: Medium Room | |
| | | FC* | W/Sq. Ft. | FC* | W/Sq. Ft. |
| 9' | 5' | 60 | 0.90 | 64 | 1.14 |
| | 6' | 42 | 0.63 | 51 | 0.90 |
| 10' | 5' | 54 | 0.81 | 48 | 0.85 |
| | 6' | 47 | 0.71 | 40 | 0.71 |
| 11' | 6' | 44 | 0.65 | 38 | 0.67 |
| | 7' | 32 | 0.48 | 29 | 0.52 |
| 12' | 7' | 30 | 0.45 | 30 | 0.54 |
| | 8' | 26 | 0.39 | 23 | 0.40 |

Delivered Illuminance Rating: (DIR) 66 FC per W/Sq. Ft. 56 FC per W/Sq. Ft.
*Average Footcandles at 2.5' above floor.

SGE8LEDOS35W35KE1-AR8223OSMWSO



Delivered Lumens: 2599
Luminaire Watts: 35.2
LER: 74

CP @ 0° (Nadir): 2099
Beam Angle: 67°
Spacing Ratio: 1.04

| SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES AND BEAM ANGLE DIAMETERS | | | |
|--------------------------------------------------------------------------|--------------|--------------------|--------------|
| Mounting Height* | FC at Center | Diameter of Beam** | FC at Beam** |
| 7.5' | 37 | 9.9' | 13 |
| 8.5' | 33 | 10.6' | 11 |
| 9.5' | 29 | 11.3' | 10 |
| 10.0' | 26 | 11.9' | 9 |
| 11.0' | 21 | 13.2' | 7 |
| 11.5' | 17 | 14.6' | 6 |
| 12.0' | 15 | 15.9' | 5 |
| 14.0' | 11 | 18.5' | 4 |

CCT: 3500° K CRI: 84

CCT Output Factors: 40K 103%, 30K 95%, 27K 89%

| MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT | | | | | |
|-----------------------------------------------------------------------------------------------------|-----------------|-------------------|-----------|--------------------|-----------|
| Ceiling Height | Fixture Spacing | RCR 2: Large Room | | RCR 4: Medium Room | |
| | | FC* | W/Sq. Ft. | FC* | W/Sq. Ft. |
| 10' | 5' | 81 | 1.12 | 72 | 1.17 |
| | 6' | 71 | 0.98 | 59 | 0.98 |
| 11' | 6' | 66 | 0.89 | 57 | 0.92 |
| | 7' | 48 | 0.66 | 44 | 0.72 |
| 12' | 7' | 45 | 0.62 | 46 | 0.74 |
| | 8' | 39 | 0.53 | 34 | 0.55 |
| 14' | 7' | 45 | 0.62 | 40 | 0.65 |
| | 8' | 38 | 0.53 | 30 | 0.49 |

Delivered Illuminance Rating: (DIR) 72 FC per W/Sq. Ft. 61 FC per W/Sq. Ft.
*Average Footcandles at 2.5' above floor.

Dimensions and values shown are nominal. Spectrum Lighting is continually improving products and reserves the right to make changes that will not alter performance or appearance with or without written notice.

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