

| FIT SIZE | |
|----------|-------------------|
| SERIES | 8" |
| MINIMUM | 7 ^{3/16} |
| MAXIMUM | 8 ^{7/16} |

| A | B | C |
|----------|----------|----------|
| 8.0 | 9.1 | 7.4 |
| 203.2 mm | 231.1 mm | 188.0 mm |

Ceiling Cutout: Ø 7^{7/8}"

SGRTE8LEDOS - TRIM FLANGE / NON-IC RATED

APPLICATION

Round OS general illumination series LED downlight for retrofit or remodel applications.

FEATURES

One piece spun housing seals ceiling aperture preventing light leaks. Two-stage optical system for smooth light distribution. Zhaga International Standard LED module for ease of maintenance and replacement. Tool-less LED module, driver, and J-Box access. Posi-lock trim retention torsion springs. Includes set of three retrofit clips to accommodate most installations. Goof ring available for oversized or damaged ceiling installations. Fixture will work in up to 1" thick ceiling¹.

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 .060 aluminum and powdercoat white 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 listed for damp locations. Optional Wet location. LM79/LM80/TM21 data available. Manufactured and tested to UL standards No. 1598/8750.

| WATTAGE TO LUMENS UPDATE | | | | | |
|-----------------------------|------------------------------|----------------------------|-------------------------------|--------------|-----|
| CURRENT PART NUMBER EXAMPLE | PREVIOUS PART NUMBER EXAMPLE | SOURCE LUMENS ² | DELIVERED LUMENS ³ | SYSTEM WATTS | LPW |
| SGRTE8LEDOS10L | SGRTE8LEDOS14W | 1100 | 863 | 11 | 78 |
| SGRTE8LEDOS15L | N/A | 1500 | 1092 | 13 | 84 |
| SGRTE8LEDOS20L | SGRTE8LEDOS25W | 2000 | 1833 | 20 | 92 |
| SGRTE8LEDOS30L | SGRTE8LEDOS35W | 3000 | 2519 | 28 | 90 |
| SGRTE8LEDOS45L | N/A | 4500 | 3728 | 41 | 90 |

| SERIES | LUMENS ² | CCT | DRIVER / VOLTAGE ⁴ | OPTIONS ⁵ | TRIM | FINISH | TRIM OPTIONS | |
|-------------|---------------------|---------|----------------------------------|---|----------------------------------|----------|--|---|
| SGRTE8LEDOS | 10L | 1100 Lm | 27K 2700K | E_ Electronic Driver | 1 120V | AR8223OS | MW ⁸ Matte White MB Matte Black SG Semi-Diffuse PT Platinum Silver BZ Bronze OB Oil Rubbed Bronze CH Charcoal AS Anodic Sapphire AN Anodic Natural AC Anodic Champagne AM Anodic Malachite CO Copper Metallic GH Graphite CC ⁹ Custom Color | |
| | 15L | 1500 Lm | 30K 3000K | DS10_ 10%, 0-10V | 2 277V | | | SO ¹⁰ Micro Prism Solite™ Lens |
| | 20L | 2000 Lm | 35K 3500K | DO10_ 1%, 0-10V | | | | GL Clear Glass Lens |
| | 30L | 3000 Lm | 40K 4000K | DS2W1 1%, ELV/MLV, 120V | | | | FG Frosted Glass Lens |
| | 45L | 4500 Lm | | DLTE1 1% Lutron® 2-Wire Forward Phase, 120V | | | | GS Gasket for Flange |
| | | | DL3E 1% Lutron® EcoSystem®, Fade | | WL Wet Location | | | |
| | | | EL10_ 1%, eldoLED | | PF ¹¹ Polished Flange | | | |
| | | | ED01_ 0.1%, eldoLED | | AMB Anti-Microbial Finish | | | |
| | | | DALI_ DALI Control | | | | | |
| | | | | FS Fusing | | | | |
| | | | | CR Corrosion Resistant | | | | |
| | | | | GR Goof Ring | | | | |
| | | | | WP12 12" Whip | | | | |
| | | | | WP24 24" Whip | | | | |
| | | | | WP36 36" Whip | | | | |
| | | | | ZIG ⁶ ZigBee Module | | | | |
| | | | | BLU ⁷ Bluetooth LE | | | | |
| | | | | EM ⁹ 7W Emergency Battery Test Switch Remote | | | | |
| | | | | AMB Anti-Microbial Finish | | | | |

EXAMPLE: SGRTE8LEDOS20L35KE1/AR8223OSMWSO

NOTES:
 1 Consult Factory for Thicker Ceiling 2 Nominal Source Lumens at 35K 3 Nominal Delivered Lumens at 35K with SG-SO 4 Contact Factory for Additional Options 5 See Product Options Page for Details 6 Order DS10/2 When Specifying ZIG or BLU 7 Standard EM 8 Standard Finish 9 Contact Factory for Special Colors 10 Standard Lens 11 Flange and Reflector Same Finish



PROJECT: _____
 TYPE: _____



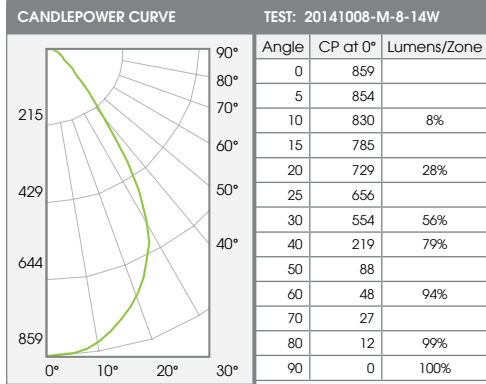
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.

8" ROUND RETROFIT DOWNLIGHT OS SERIES / PHOTOMETRIC DATA

retrofits
remodelights



SGRTE8LEDOS14W35KE1-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 |

* From aperture to horizontal surface below.
** At IESNA defined Beam Angle, to 50% Max. CP.

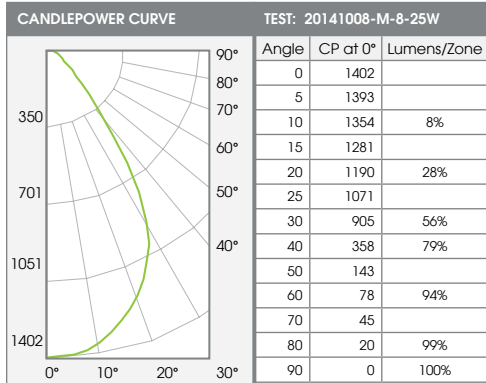
MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES
INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT

| 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.

CCT: 3500° K CRI: 84 CCT Output Factors: 40K 103%, 30K 95%, 27K 89% Multiplier for FC Values at 9W: 0.56

SGRTE8LEDOS25W35KE1-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 |

* From aperture to horizontal surface below.
** At IESNA defined Beam Angle, to 50% Max. CP.

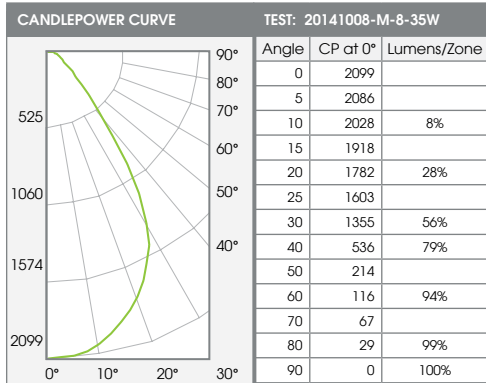
MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES
INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT

| 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.

CCT: 3500° K CRI: 84 CCT Output Factors: 40K 103%, 30K 95%, 27K 89%

SGRTE8LEDOS35W35KE1-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 |

* From aperture to horizontal surface below.
** At IESNA defined Beam Angle, to 50% Max. CP.

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.

CCT: 3500° K CRI: 84 CCT Output Factors: 40K 103%, 30K 95%, 27K 89%