

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1306710

Luminaire Tested: LDSQA3D02R509024DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R509024DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

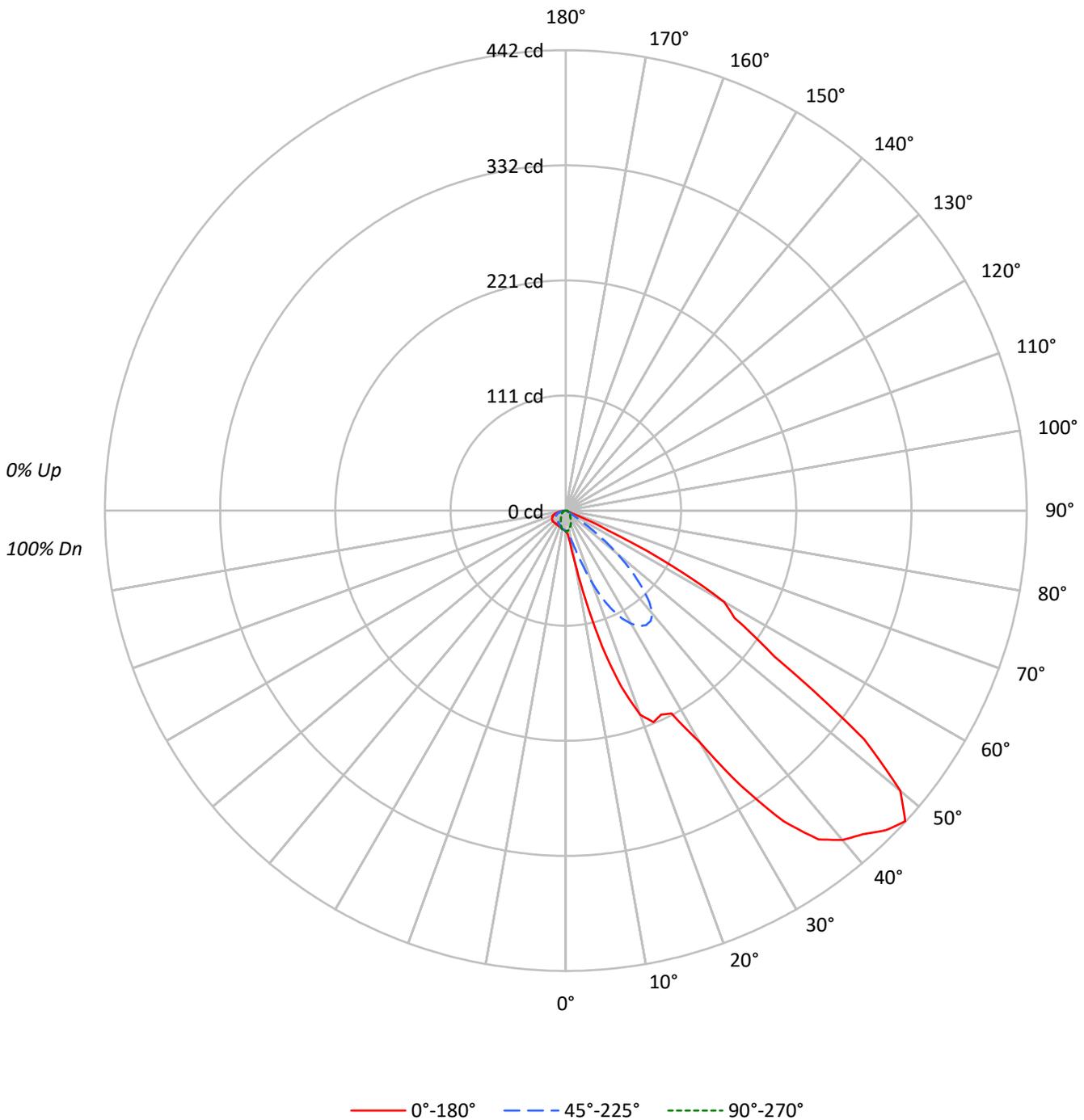
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 249.0 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 43 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 39 | 51 | 44 | 39 | 50 | 43 | 39 | 37 |
| 7 | 63 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 39 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 31 |
| 8 | 58 | 44 | 36 | 30 | 57 | 44 | 35 | 29 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 27 |
| 9 | 54 | 40 | 31 | 26 | 53 | 39 | 31 | 26 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 23 |
| 10 | 50 | 36 | 28 | 23 | 49 | 36 | 28 | 22 | 35 | 27 | 22 | 34 | 27 | 22 | 33 | 27 | 22 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0° | 3410 | 3410 | 3410 | 3410 | 3410 |
| 5° | 4045 | 3786 | 3388 | 3233 | 3198 |
| 10° | 8726 | 4704 | 3235 | 3130 | 3165 |
| 15° | 24159 | 7702 | 2906 | 2995 | 3102 |
| 20° | 38195 | 13526 | 2529 | 2877 | 3042 |
| 25° | 41065 | 19858 | 2166 | 2774 | 3059 |
| 30° | 50989 | 24938 | 1889 | 2744 | 3162 |
| 35° | 76508 | 28215 | 1619 | 2754 | 3343 |
| 40° | 92783 | 29002 | 1461 | 2855 | 3530 |
| 45° | 105705 | 24892 | 1413 | 3044 | 3873 |
| 50° | 112183 | 17174 | 1447 | 3296 | 4314 |
| 55° | 73294 | 6906 | 1411 | 3543 | 4774 |
| 60° | 60450 | 1171 | 1412 | 3858 | 5270 |
| 65° | 18216 | 611 | 1304 | 4116 | 5787 |
| 70° | 755 | 655 | 1309 | 4230 | 6294 |
| 75° | 732 | 732 | 1264 | 4325 | 6854 |
| 80° | 595 | 595 | 1289 | 4265 | 7042 |
| 85° | 395 | 790 | 1778 | 4347 | 6719 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 112548 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2.1 | 0.8 |
| 10°-20° | 11.8 | 4.7 |
| 20°-30° | 30.3 | 12.2 |
| 30°-40° | 54.4 | 21.9 |
| 40°-50° | 72.7 | 29.2 |
| 50°-60° | 55.4 | 22.2 |
| 60°-70° | 16.8 | 6.8 |
| 70°-80° | 4.0 | 1.6 |
| 80°-90° | 1.4 | 0.6 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 44.2 | 17.7 |
| 0°-40° | 98.6 | 39.6 |
| 0°-60° | 226.7 | 91.1 |
| 0°-90° | 249.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 249.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 20 | 20 | 20 | 20 | 20 | |
| 5° | 23 | 22 | 20 | 19 | 18 | 3 |
| 15° | 136 | 43 | 16 | 17 | 17 | 40 |
| 25° | 216 | 104 | 11 | 15 | 16 | 103 |
| 35° | 364 | 134 | 8 | 13 | 16 | 223 |
| 45° | 434 | 102 | 6 | 12 | 16 | 332 |
| 55° | 244 | 23 | 5 | 12 | 16 | 243 |
| 65° | 45 | 2 | 3 | 10 | 14 | 62 |
| 75° | 1 | 1 | 2 | 6 | 10 | 1 |
| 85° | 0 | 0 | 1 | 2 | 3 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0° | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 |
| 2.5° | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 20.9 | 20.9 | 20.9 | 20.4 | 20.0 |
| 5° | 23.4 | 23.7 | 23.4 | 23.4 | 23.0 | 23.0 | 22.6 | 22.6 | 21.9 | 20.6 | 19.6 |
| 7.5° | 30.8 | 30.5 | 30.3 | 29.5 | 28.8 | 27.3 | 26.7 | 25.6 | 23.7 | 20.6 | 19.1 |
| 10° | 49.9 | 48.6 | 47.7 | 45.8 | 41.7 | 39.1 | 35.7 | 32.3 | 26.9 | 20.6 | 18.5 |
| 12.5° | 86.7 | 86.5 | 83.9 | 77.4 | 71.6 | 63.7 | 55.3 | 46.9 | 33.1 | 20.2 | 17.6 |
| 15° | 135.5 | 133.6 | 129.9 | 122.4 | 112.1 | 99.6 | 84.5 | 69.7 | 43.2 | 19.6 | 16.3 |
| 17.5° | 177.2 | 174.9 | 172.1 | 164.5 | 152.7 | 137.0 | 118.9 | 98.5 | 57.0 | 18.7 | 15.1 |
| 20° | 208.4 | 206.9 | 204.5 | 198.5 | 187.3 | 173.1 | 152.9 | 128.2 | 73.8 | 17.6 | 13.8 |
| 22.5° | 219.8 | 219.6 | 220.0 | 217.9 | 212.3 | 201.1 | 181.7 | 155.9 | 90.3 | 16.3 | 12.5 |
| 25° | 216.1 | 215.9 | 218.7 | 221.5 | 222.8 | 218.3 | 203.5 | 178.3 | 104.5 | 15.3 | 11.4 |
| 27.5° | 219.6 | 218.9 | 217.7 | 218.1 | 221.7 | 224.3 | 217.4 | 195.5 | 116.8 | 13.8 | 10.3 |
| 30° | 256.4 | 252.7 | 246.9 | 237.0 | 229.7 | 229.1 | 226.0 | 209.0 | 125.4 | 12.3 | 9.5 |
| 32.5° | 313.8 | 309.3 | 298.7 | 280.5 | 263.0 | 249.7 | 240.2 | 220.4 | 131.4 | 10.8 | 8.4 |
| 35° | 363.9 | 360.7 | 348.4 | 330.3 | 305.4 | 280.5 | 263.2 | 237.2 | 134.2 | 9.5 | 7.7 |
| 37.5° | 397.9 | 396.6 | 384.5 | 365.2 | 339.8 | 310.3 | 287.6 | 254.4 | 133.6 | 8.0 | 7.1 |
| 40° | 412.7 | 408.9 | 398.7 | 382.4 | 356.8 | 330.3 | 306.3 | 265.4 | 129.0 | 6.5 | 6.5 |
| 42.5° | 421.5 | 417.2 | 406.3 | 390.8 | 365.6 | 337.4 | 308.4 | 260.7 | 118.3 | 5.2 | 6.2 |
| 45° | 434.0 | 429.5 | 415.1 | 398.5 | 373.1 | 340.5 | 300.0 | 243.9 | 102.2 | 3.9 | 5.8 |
| 47.5° | 441.5 | 438.5 | 427.8 | 411.2 | 380.5 | 336.2 | 280.7 | 228.2 | 84.3 | 3.0 | 5.6 |
| 50° | 418.7 | 415.7 | 407.8 | 396.4 | 375.7 | 321.7 | 263.7 | 202.8 | 64.1 | 2.4 | 5.4 |
| 52.5° | 360.5 | 363.0 | 364.5 | 367.8 | 352.7 | 289.5 | 238.3 | 182.6 | 43.2 | 1.9 | 4.9 |
| 55° | 244.1 | 248.0 | 252.3 | 265.2 | 282.8 | 257.7 | 211.6 | 157.9 | 23.0 | 1.9 | 4.7 |
| 57.5° | 191.8 | 190.6 | 189.3 | 188.4 | 202.2 | 212.5 | 186.0 | 126.2 | 9.9 | 1.9 | 4.3 |
| 60° | 175.5 | 171.6 | 169.0 | 169.7 | 176.6 | 172.5 | 147.3 | 82.4 | 3.4 | 1.9 | 4.1 |
| 62.5° | 115.1 | 118.1 | 123.9 | 133.8 | 129.0 | 110.8 | 85.6 | 32.7 | 1.7 | 1.9 | 3.7 |
| 65° | 44.7 | 43.2 | 44.7 | 47.5 | 41.1 | 30.5 | 19.1 | 5.8 | 1.5 | 1.7 | 3.2 |
| 67.5° | 6.0 | 5.4 | 4.1 | 2.6 | 2.4 | 2.2 | 1.7 | 1.5 | 1.5 | 1.7 | 3.0 |
| 70° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.3 | 1.3 | 1.5 | 2.6 |
| 72.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.5 | 2.2 |
| 75° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.3 | 1.9 |
| 77.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.1 | 1.5 |
| 80° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.9 | 1.3 |
| 82.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.6 | 0.6 | 0.9 | 1.1 |
| 85° | 0.2 | 0.4 | 0.2 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.6 | 0.9 |
| 87.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.6 | 0.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0° | 19.8 | 19.8 | 19.8 | 19.8 |
| 2.5° | 19.6 | 19.1 | 19.1 | 19.1 |
| 5° | 19.1 | 18.7 | 18.7 | 18.5 |
| 7.5° | 18.5 | 18.3 | 18.3 | 18.3 |
| 10° | 18.1 | 17.9 | 18.1 | 18.1 |
| 12.5° | 17.2 | 17.4 | 17.6 | 17.6 |
| 15° | 16.3 | 16.8 | 17.2 | 17.4 |
| 17.5° | 15.5 | 16.3 | 16.8 | 17.0 |
| 20° | 14.6 | 15.7 | 16.3 | 16.6 |
| 22.5° | 14.0 | 15.1 | 15.9 | 16.3 |
| 25° | 13.1 | 14.6 | 15.7 | 16.1 |
| 27.5° | 12.3 | 14.0 | 15.3 | 15.9 |
| 30° | 11.6 | 13.8 | 15.3 | 15.9 |
| 32.5° | 11.0 | 13.3 | 15.1 | 15.7 |
| 35° | 10.5 | 13.1 | 15.1 | 15.9 |
| 37.5° | 10.1 | 12.9 | 15.1 | 15.7 |
| 40° | 9.9 | 12.7 | 15.1 | 15.7 |
| 42.5° | 9.7 | 12.7 | 15.1 | 15.9 |
| 45° | 9.2 | 12.5 | 15.1 | 15.9 |
| 47.5° | 9.0 | 12.5 | 15.1 | 15.9 |
| 50° | 8.8 | 12.3 | 15.1 | 16.1 |
| 52.5° | 8.6 | 12.0 | 15.1 | 16.1 |
| 55° | 8.2 | 11.8 | 14.8 | 15.9 |
| 57.5° | 8.0 | 11.6 | 14.6 | 15.5 |
| 60° | 7.5 | 11.2 | 14.2 | 15.3 |
| 62.5° | 7.1 | 10.8 | 13.8 | 14.6 |
| 65° | 6.5 | 10.1 | 13.1 | 14.2 |
| 67.5° | 5.8 | 9.2 | 12.5 | 13.5 |
| 70° | 5.2 | 8.4 | 11.6 | 12.5 |
| 72.5° | 4.5 | 7.5 | 10.8 | 11.4 |
| 75° | 3.9 | 6.5 | 9.5 | 10.3 |
| 77.5° | 3.2 | 5.6 | 8.0 | 8.6 |
| 80° | 2.4 | 4.3 | 6.5 | 7.1 |
| 82.5° | 1.9 | 3.2 | 4.7 | 5.2 |
| 85° | 1.3 | 2.2 | 3.0 | 3.4 |
| 87.5° | 0.6 | 1.1 | 1.5 | 1.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)