

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: P1319727

Luminaire Tested: LDSQA3D02R559840DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R559840DE010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

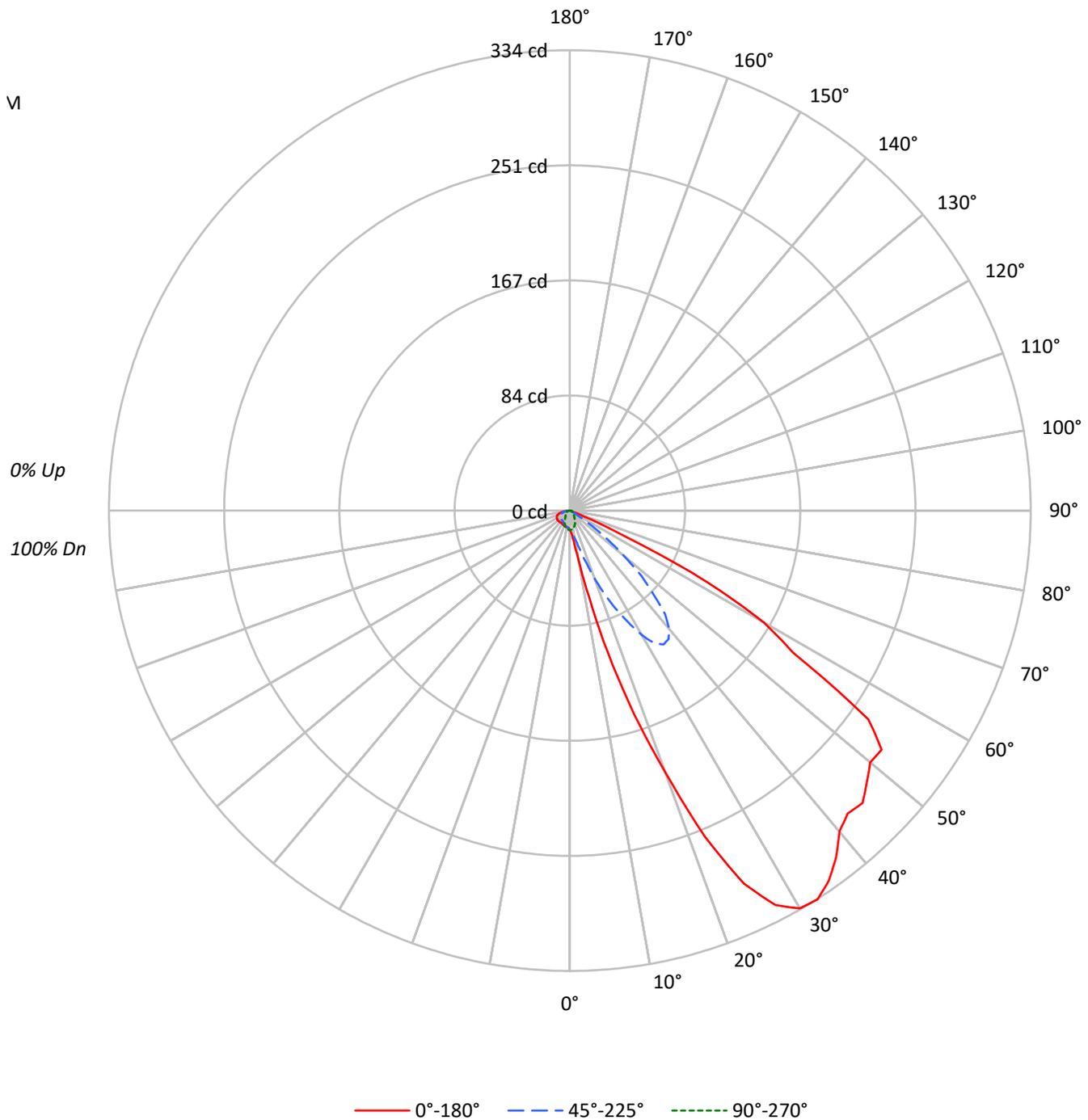
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 215.0 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 3.75 / 0.9 / 1.94
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 (Ain): 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





TEST NUMBER: P1319727

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 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 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 88 | 88 | 88 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 75 | 75 | 75 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 67 | 77 | 71 | 65 | 74 | 69 | 64 | 72 | 67 | 63 | 63 | 63 | 63 | 61 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 54 | 54 | 54 | 51 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 46 | 46 | 46 | 43 |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 46 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 39 | 39 | 39 | 37 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 34 | 34 | 34 | 32 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | 41 | 35 | 29 | 40 | 34 | 29 | 29 | 29 | 29 | 27 |
| 9 | 54 | 40 | 32 | 26 | 53 | 40 | 32 | 26 | 39 | 31 | 26 | 38 | 31 | 26 | 36 | 30 | 26 | 26 | 26 | 26 | 24 |
| 10 | 50 | 37 | 28 | 23 | 49 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 27 | 23 | 33 | 27 | 23 | 23 | 23 | 23 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0° | 2394 | 2394 | 2394 | 2394 | 2394 |
| 5° | 3060 | 2783 | 2403 | 2230 | 2161 |
| 10° | 6208 | 3550 | 2326 | 2134 | 2134 |
| 15° | 19078 | 5456 | 2175 | 2068 | 2140 |
| 20° | 36875 | 9549 | 1943 | 2016 | 2126 |
| 25° | 56742 | 14841 | 1691 | 1957 | 2128 |
| 30° | 66262 | 20742 | 1392 | 1929 | 2188 |
| 35° | 68855 | 24914 | 1156 | 1913 | 2271 |
| 40° | 68323 | 25157 | 1057 | 2001 | 2473 |
| 45° | 73068 | 20824 | 1023 | 2168 | 2679 |
| 50° | 76146 | 13745 | 1018 | 2331 | 3001 |
| 55° | 79299 | 5975 | 1021 | 2552 | 3303 |
| 60° | 56007 | 1378 | 1033 | 2824 | 3720 |
| 65° | 18257 | 448 | 1019 | 3016 | 4197 |
| 70° | 554 | 453 | 1057 | 3273 | 4784 |
| 75° | 532 | 532 | 865 | 3394 | 5323 |
| 80° | 397 | 595 | 893 | 3372 | 5653 |
| 85° | 395 | 790 | 1186 | 3359 | 5533 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 80572 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------------|--------------|--------------|
| 0°-10° | 1.5 | 0.7 |
| 10°-20° | 9.1 | 4.2 |
| 20°-30° | 30.6 | 14.2 |
| 30°-40° | 50.2 | 23.4 |
| 40°-50° | 56.0 | 26.1 |
| 50°-60° | 47.2 | 21.9 |
| 60°-70° | 16.0 | 7.4 |
| 70°-80° | 3.1 | 1.5 |
| 80°-90° | 1.2 | 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° | 41.2 | 19.2 |
| 0°-40° | 91.5 | 42.5 |
| 0°-60° | 194.7 | 90.6 |
| 0°-90° | 215.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 215.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 14 | 14 | 14 | 14 | 14 | |
| 5° | 18 | 16 | 14 | 13 | 12 | 2 |
| 15° | 107 | 31 | 12 | 12 | 12 | 34 |
| 25° | 299 | 78 | 9 | 10 | 11 | 134 |
| 35° | 328 | 118 | 6 | 9 | 11 | 203 |
| 45° | 300 | 86 | 4 | 9 | 11 | 229 |
| 55° | 264 | 20 | 3 | 8 | 11 | 215 |
| 65° | 45 | 1 | 2 | 7 | 10 | 61 |
| 75° | 1 | 1 | 1 | 5 | 8 | 1 |
| 85° | 0 | 0 | 1 | 2 | 3 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: LDSQA3D02R559840DE010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|------|
| 0° | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 |
| 2.5° | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.0 | 14.4 | 14.1 | 13.5 | 13.3 |
| 5° | 17.7 | 17.7 | 17.7 | 17.5 | 17.5 | 17.1 | 16.1 | 14.8 | 13.9 | 13.1 | 12.9 |
| 7.5° | 22.8 | 22.6 | 22.2 | 22.0 | 21.5 | 21.3 | 17.9 | 15.2 | 13.7 | 12.7 | 12.5 |
| 10° | 35.5 | 35.1 | 34.6 | 32.5 | 30.6 | 29.3 | 20.3 | 15.4 | 13.3 | 12.3 | 12.2 |
| 12.5° | 64.0 | 63.3 | 60.4 | 56.0 | 50.7 | 48.1 | 24.3 | 15.6 | 12.7 | 12.0 | 12.0 |
| 15° | 107.0 | 106.0 | 100.7 | 94.6 | 84.9 | 79.6 | 30.6 | 15.4 | 12.2 | 11.4 | 11.6 |
| 17.5° | 154.4 | 151.8 | 146.3 | 138.3 | 125.2 | 118.9 | 39.9 | 15.0 | 11.4 | 11.0 | 11.4 |
| 20° | 201.2 | 200.4 | 191.3 | 180.5 | 164.3 | 156.0 | 52.1 | 14.4 | 10.6 | 10.4 | 11.0 |
| 22.5° | 255.9 | 252.7 | 243.0 | 231.4 | 209.2 | 198.1 | 65.2 | 13.7 | 9.9 | 9.9 | 10.6 |
| 25° | 298.6 | 294.8 | 287.2 | 273.7 | 252.7 | 240.9 | 78.1 | 12.7 | 8.9 | 9.3 | 10.3 |
| 27.5° | 322.6 | 318.2 | 312.5 | 300.9 | 284.6 | 274.1 | 91.0 | 11.6 | 8.0 | 8.7 | 9.9 |
| 30° | 333.2 | 332.1 | 327.9 | 319.3 | 304.3 | 295.0 | 104.3 | 10.3 | 7.0 | 8.2 | 9.7 |
| 32.5° | 334.3 | 334.9 | 333.2 | 327.7 | 316.3 | 308.3 | 114.2 | 9.1 | 6.3 | 7.8 | 9.3 |
| 35° | 327.5 | 329.6 | 330.7 | 328.5 | 321.0 | 314.6 | 118.5 | 7.8 | 5.5 | 7.4 | 9.1 |
| 37.5° | 316.9 | 320.7 | 324.5 | 325.0 | 320.5 | 316.3 | 117.4 | 6.6 | 5.1 | 7.2 | 9.1 |
| 40° | 303.9 | 307.4 | 315.2 | 320.1 | 318.6 | 315.5 | 111.9 | 5.5 | 4.7 | 6.8 | 8.9 |
| 42.5° | 298.1 | 298.8 | 307.2 | 315.5 | 315.2 | 312.7 | 102.2 | 4.4 | 4.4 | 6.8 | 8.9 |
| 45° | 300.0 | 296.5 | 302.0 | 311.7 | 311.2 | 307.9 | 85.5 | 3.4 | 4.2 | 6.6 | 8.9 |
| 47.5° | 292.0 | 287.2 | 296.5 | 307.9 | 305.8 | 301.1 | 70.7 | 2.5 | 4.0 | 6.5 | 8.7 |
| 50° | 284.2 | 283.4 | 290.6 | 296.3 | 293.5 | 290.8 | 51.3 | 1.9 | 3.8 | 6.3 | 8.7 |
| 52.5° | 284.8 | 283.4 | 284.2 | 284.0 | 278.3 | 275.4 | 35.1 | 1.5 | 3.6 | 6.1 | 8.7 |
| 55° | 264.1 | 259.9 | 255.9 | 257.0 | 257.4 | 255.5 | 19.9 | 1.3 | 3.4 | 6.1 | 8.5 |
| 57.5° | 191.9 | 190.7 | 195.1 | 207.4 | 217.1 | 218.3 | 9.7 | 1.3 | 3.2 | 5.9 | 8.4 |
| 60° | 162.6 | 161.9 | 162.0 | 165.6 | 170.8 | 167.5 | 4.0 | 1.3 | 3.0 | 5.7 | 8.2 |
| 62.5° | 112.1 | 119.5 | 122.5 | 130.9 | 127.5 | 122.9 | 1.5 | 1.5 | 2.8 | 5.3 | 8.0 |
| 65° | 44.8 | 44.6 | 48.8 | 52.8 | 51.7 | 48.3 | 1.1 | 1.3 | 2.5 | 4.9 | 7.4 |
| 67.5° | 10.4 | 9.5 | 8.2 | 7.0 | 5.9 | 4.7 | 1.1 | 1.3 | 2.3 | 4.6 | 7.0 |
| 70° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.9 | 0.9 | 1.3 | 2.1 | 4.2 | 6.5 |
| 72.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.1 | 1.7 | 3.6 | 5.9 |
| 75° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 1.3 | 3.0 | 5.1 |
| 77.5° | 0.6 | 0.6 | 0.6 | 0.8 | 0.6 | 0.8 | 0.8 | 0.9 | 1.1 | 2.5 | 4.4 |
| 80° | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.8 | 0.9 | 2.1 | 3.4 |
| 82.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.6 | 0.6 | 0.8 | 1.5 | 2.5 |
| 85° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 1.1 | 1.7 |
| 87.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.8 |
| 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):

| | 157.5° | 180° |
|-------|--------|------|
| 0° | 13.9 | 13.9 |
| 2.5° | 13.1 | 13.1 |
| 5° | 12.7 | 12.5 |
| 7.5° | 12.3 | 12.3 |
| 10° | 12.2 | 12.2 |
| 12.5° | 12.0 | 12.2 |
| 15° | 12.0 | 12.0 |
| 17.5° | 11.6 | 11.8 |
| 20° | 11.4 | 11.6 |
| 22.5° | 11.2 | 11.4 |
| 25° | 11.0 | 11.2 |
| 27.5° | 10.8 | 11.0 |
| 30° | 10.6 | 11.0 |
| 32.5° | 10.4 | 10.8 |
| 35° | 10.4 | 10.8 |
| 37.5° | 10.4 | 11.0 |
| 40° | 10.4 | 11.0 |
| 42.5° | 10.4 | 11.0 |
| 45° | 10.4 | 11.0 |
| 47.5° | 10.4 | 11.0 |
| 50° | 10.4 | 11.2 |
| 52.5° | 10.4 | 11.2 |
| 55° | 10.4 | 11.0 |
| 57.5° | 10.3 | 11.0 |
| 60° | 10.3 | 10.8 |
| 62.5° | 10.1 | 10.6 |
| 65° | 9.7 | 10.3 |
| 67.5° | 9.3 | 10.1 |
| 70° | 8.7 | 9.5 |
| 72.5° | 8.2 | 8.7 |
| 75° | 7.4 | 8.0 |
| 77.5° | 6.5 | 6.8 |
| 80° | 5.1 | 5.7 |
| 82.5° | 4.0 | 4.4 |
| 85° | 2.7 | 2.8 |
| 87.5° | 1.1 | 1.3 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)