

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: P1314213

Luminaire Tested: LDSQA3D02R559730DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314213
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: LDSQA3D02R559730DE010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

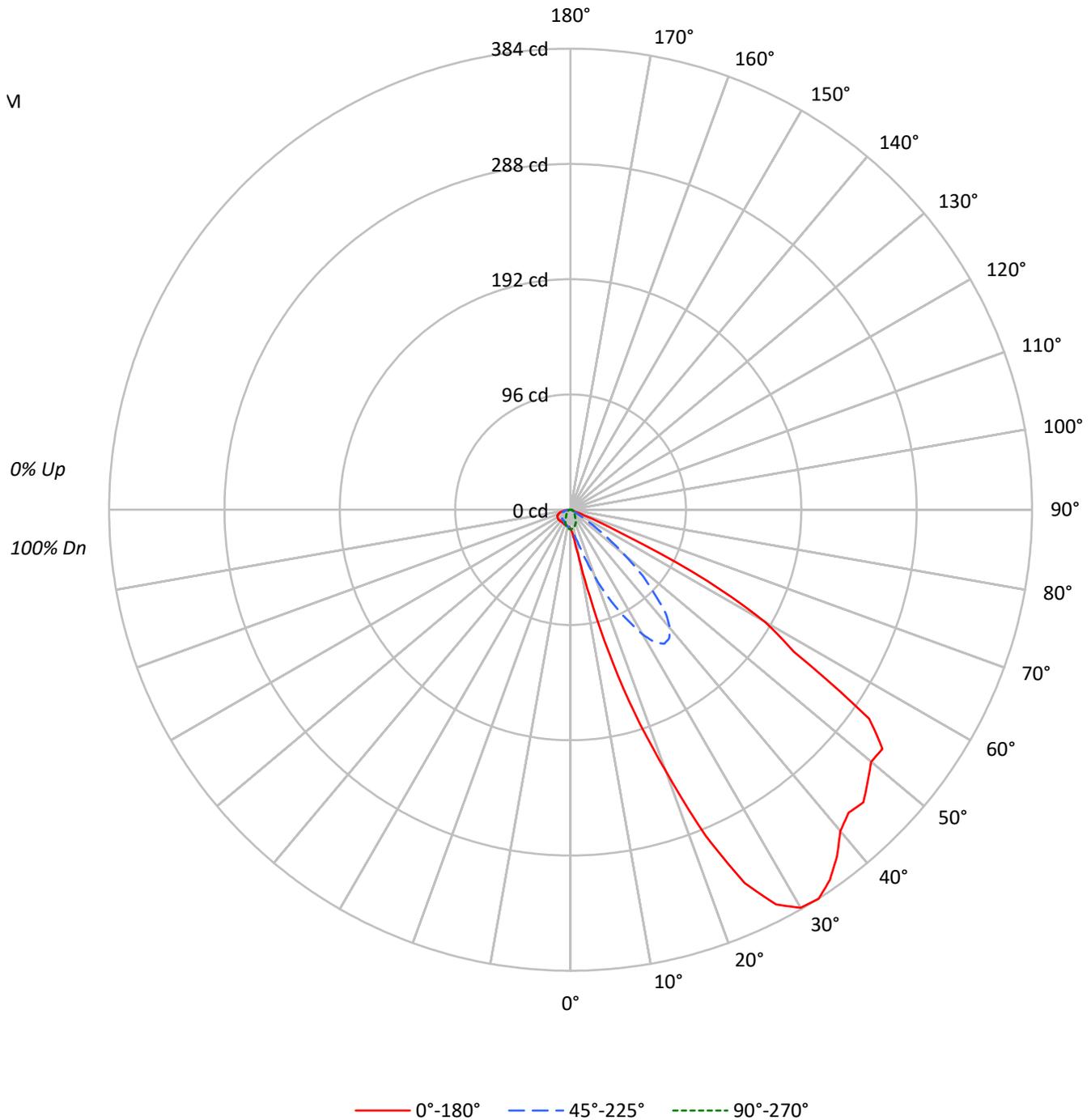
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 247.0 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
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





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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0° | 2738 | 2738 | 2738 | 2738 | 2738 |
| 5° | 3509 | 3216 | 2749 | 2559 | 2489 |
| 10° | 7135 | 4092 | 2676 | 2448 | 2448 |
| 15° | 21913 | 6258 | 2496 | 2371 | 2443 |
| 20° | 42355 | 10960 | 2236 | 2328 | 2438 |
| 25° | 65198 | 17045 | 1957 | 2242 | 2451 |
| 30° | 76126 | 23824 | 1611 | 2207 | 2526 |
| 35° | 79094 | 28635 | 1325 | 2208 | 2607 |
| 40° | 78507 | 28889 | 1237 | 2316 | 2855 |
| 45° | 83931 | 23918 | 1169 | 2509 | 3093 |
| 50° | 87479 | 15781 | 1179 | 2679 | 3456 |
| 55° | 91099 | 6876 | 1171 | 2943 | 3813 |
| 60° | 64342 | 1584 | 1206 | 3238 | 4271 |
| 65° | 20987 | 530 | 1141 | 3464 | 4809 |
| 70° | 655 | 554 | 1209 | 3726 | 5489 |
| 75° | 599 | 599 | 998 | 3926 | 6122 |
| 80° | 397 | 694 | 1091 | 3868 | 6447 |
| 85° | 395 | 790 | 1383 | 3952 | 6521 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 92539 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1.7 | 0.7 |
| 10°-20° | 10.5 | 4.2 |
| 20°-30° | 35.2 | 14.2 |
| 30°-40° | 57.7 | 23.4 |
| 40°-50° | 64.4 | 26.1 |
| 50°-60° | 54.2 | 21.9 |
| 60°-70° | 18.4 | 7.4 |
| 70°-80° | 3.6 | 1.5 |
| 80°-90° | 1.4 | 0.5 |
| 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° | 47.3 | 19.2 |
| 0°-40° | 105.1 | 42.5 |
| 0°-60° | 223.7 | 90.6 |
| 0°-90° | 247.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 247.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 16 | 16 | 16 | 16 | 16 | |
| 5° | 20 | 19 | 16 | 15 | 14 | 3 |
| 15° | 123 | 35 | 14 | 13 | 14 | 39 |
| 25° | 343 | 90 | 10 | 12 | 13 | 154 |
| 35° | 376 | 136 | 6 | 10 | 12 | 234 |
| 45° | 345 | 98 | 5 | 10 | 13 | 263 |
| 55° | 303 | 23 | 4 | 10 | 13 | 247 |
| 65° | 52 | 1 | 3 | 8 | 12 | 70 |
| 75° | 1 | 1 | 2 | 6 | 9 | 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° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|------|
| 0° | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 |
| 2.5° | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.2 | 16.6 | 16.1 | 15.5 | 15.3 |
| 5° | 20.3 | 20.3 | 20.3 | 20.1 | 20.1 | 19.6 | 18.6 | 17.0 | 15.9 | 15.1 | 14.8 |
| 7.5° | 26.2 | 26.0 | 25.5 | 25.3 | 24.7 | 24.4 | 20.5 | 17.5 | 15.7 | 14.6 | 14.4 |
| 10° | 40.8 | 40.4 | 39.7 | 37.3 | 35.1 | 33.6 | 23.4 | 17.7 | 15.3 | 14.2 | 14.0 |
| 12.5° | 73.5 | 72.7 | 69.4 | 64.4 | 58.3 | 55.2 | 27.9 | 17.9 | 14.6 | 13.7 | 13.7 |
| 15° | 122.9 | 121.8 | 115.7 | 108.7 | 97.6 | 91.4 | 35.1 | 17.7 | 14.0 | 13.1 | 13.3 |
| 17.5° | 177.4 | 174.4 | 168.0 | 158.9 | 143.8 | 136.6 | 45.8 | 17.2 | 13.1 | 12.7 | 13.1 |
| 20° | 231.1 | 230.2 | 219.8 | 207.3 | 188.8 | 179.2 | 59.8 | 16.6 | 12.2 | 12.0 | 12.7 |
| 22.5° | 294.0 | 290.3 | 279.1 | 265.8 | 240.3 | 227.6 | 74.9 | 15.7 | 11.3 | 11.3 | 12.2 |
| 25° | 343.1 | 338.7 | 330.0 | 314.5 | 290.3 | 276.7 | 89.7 | 14.6 | 10.3 | 10.7 | 11.8 |
| 27.5° | 370.6 | 365.6 | 359.0 | 345.7 | 326.9 | 314.9 | 104.5 | 13.3 | 9.2 | 10.0 | 11.3 |
| 30° | 382.8 | 381.5 | 376.7 | 366.9 | 349.6 | 338.9 | 119.8 | 11.8 | 8.1 | 9.4 | 11.1 |
| 32.5° | 384.1 | 384.8 | 382.8 | 376.5 | 363.4 | 354.2 | 131.2 | 10.5 | 7.2 | 8.9 | 10.7 |
| 35° | 376.2 | 378.6 | 380.0 | 377.3 | 368.8 | 361.4 | 136.2 | 8.9 | 6.3 | 8.5 | 10.5 |
| 37.5° | 364.0 | 368.4 | 372.8 | 373.4 | 368.2 | 363.4 | 134.9 | 7.6 | 5.9 | 8.3 | 10.5 |
| 40° | 349.2 | 353.1 | 362.1 | 367.7 | 366.0 | 362.5 | 128.5 | 6.3 | 5.5 | 7.9 | 10.3 |
| 42.5° | 342.4 | 343.3 | 352.9 | 362.5 | 362.1 | 359.2 | 117.4 | 5.0 | 5.0 | 7.9 | 10.3 |
| 45° | 344.6 | 340.7 | 347.0 | 358.1 | 357.5 | 353.8 | 98.2 | 3.9 | 4.8 | 7.6 | 10.3 |
| 47.5° | 335.4 | 330.0 | 340.7 | 353.8 | 351.4 | 345.9 | 81.2 | 2.8 | 4.6 | 7.4 | 10.0 |
| 50° | 326.5 | 325.6 | 333.9 | 340.5 | 337.2 | 334.1 | 58.9 | 2.2 | 4.4 | 7.2 | 10.0 |
| 52.5° | 327.1 | 325.6 | 326.5 | 326.3 | 319.7 | 316.4 | 40.4 | 1.7 | 4.1 | 7.0 | 10.0 |
| 55° | 303.4 | 298.6 | 294.0 | 295.3 | 295.7 | 293.5 | 22.9 | 1.5 | 3.9 | 7.0 | 9.8 |
| 57.5° | 220.4 | 219.1 | 224.1 | 238.3 | 249.4 | 250.8 | 11.1 | 1.5 | 3.7 | 6.8 | 9.6 |
| 60° | 186.8 | 185.9 | 186.2 | 190.3 | 196.2 | 192.5 | 4.6 | 1.5 | 3.5 | 6.5 | 9.4 |
| 62.5° | 128.8 | 137.3 | 140.8 | 150.4 | 146.4 | 141.2 | 1.7 | 1.7 | 3.3 | 6.1 | 9.2 |
| 65° | 51.5 | 51.3 | 56.1 | 60.7 | 59.4 | 55.4 | 1.3 | 1.5 | 2.8 | 5.7 | 8.5 |
| 67.5° | 12.0 | 10.9 | 9.4 | 8.1 | 6.8 | 5.5 | 1.3 | 1.5 | 2.6 | 5.2 | 8.1 |
| 70° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.1 | 1.1 | 1.5 | 2.4 | 4.8 | 7.4 |
| 72.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.3 | 2.0 | 4.1 | 6.8 |
| 75° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.1 | 1.5 | 3.5 | 5.9 |
| 77.5° | 0.7 | 0.7 | 0.7 | 0.9 | 0.7 | 0.9 | 0.9 | 1.1 | 1.3 | 2.8 | 5.0 |
| 80° | 0.4 | 0.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.9 | 1.1 | 2.4 | 3.9 |
| 82.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.7 | 0.7 | 0.9 | 1.7 | 2.8 |
| 85° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.7 | 0.7 | 1.3 | 2.0 |
| 87.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.7 | 0.7 | 0.9 |
| 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° | 15.9 | 15.9 |
| 2.5° | 15.1 | 15.1 |
| 5° | 14.6 | 14.4 |
| 7.5° | 14.2 | 14.2 |
| 10° | 14.0 | 14.0 |
| 12.5° | 13.7 | 14.0 |
| 15° | 13.7 | 13.7 |
| 17.5° | 13.3 | 13.5 |
| 20° | 13.1 | 13.3 |
| 22.5° | 12.9 | 13.1 |
| 25° | 12.7 | 12.9 |
| 27.5° | 12.4 | 12.7 |
| 30° | 12.2 | 12.7 |
| 32.5° | 12.0 | 12.4 |
| 35° | 12.0 | 12.4 |
| 37.5° | 12.0 | 12.7 |
| 40° | 12.0 | 12.7 |
| 42.5° | 12.0 | 12.7 |
| 45° | 12.0 | 12.7 |
| 47.5° | 12.0 | 12.7 |
| 50° | 12.0 | 12.9 |
| 52.5° | 12.0 | 12.9 |
| 55° | 12.0 | 12.7 |
| 57.5° | 11.8 | 12.7 |
| 60° | 11.8 | 12.4 |
| 62.5° | 11.6 | 12.2 |
| 65° | 11.1 | 11.8 |
| 67.5° | 10.7 | 11.6 |
| 70° | 10.0 | 10.9 |
| 72.5° | 9.4 | 10.0 |
| 75° | 8.5 | 9.2 |
| 77.5° | 7.4 | 7.9 |
| 80° | 5.9 | 6.5 |
| 82.5° | 4.6 | 5.0 |
| 85° | 3.1 | 3.3 |
| 87.5° | 1.3 | 1.5 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)