

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: P1316139

Luminaire Tested: LDSQA3D02R459740DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R459740DE010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

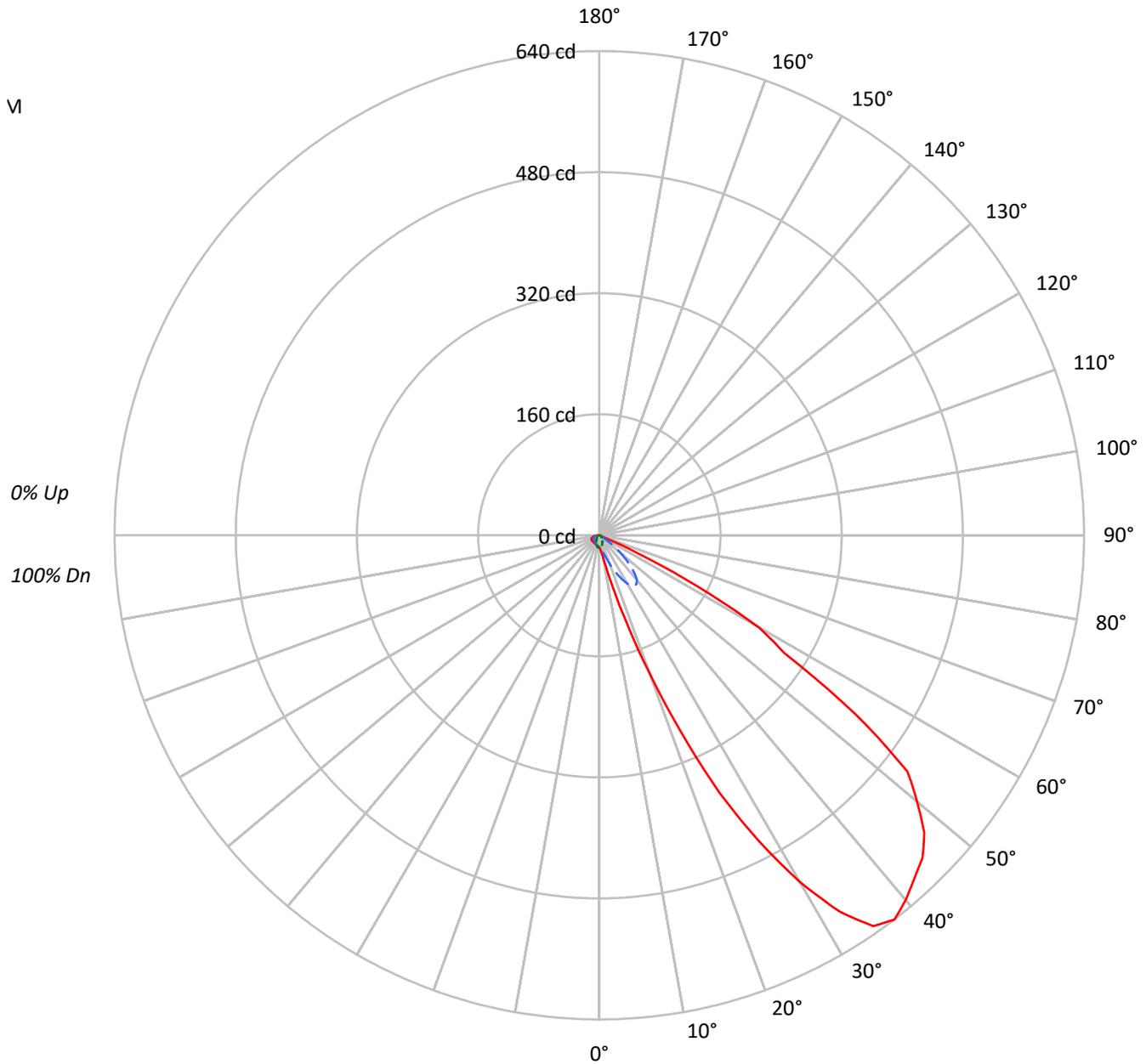
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 286.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
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



— 0°-180° - - 45°-225° - - - 90°-270°



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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 | 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 | 96 | 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 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 63 | 63 | 63 | 61 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 53 | 53 | 53 | 51 |
| 5 | 76 | 63 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 45 | 45 | 45 | 43 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 46 | 39 | 52 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 38 | 38 | 38 | 36 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 33 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 33 | 33 | 33 | 31 |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 35 | 29 | 42 | 34 | 29 | 40 | 33 | 28 | 39 | 33 | 28 | 28 | 28 | 28 | 26 |
| 9 | 53 | 39 | 31 | 25 | 52 | 39 | 30 | 25 | 38 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 24 | 24 | 24 | 22 |
| 10 | 49 | 36 | 27 | 22 | 48 | 35 | 27 | 22 | 34 | 27 | 21 | 33 | 26 | 21 | 32 | 26 | 21 | 21 | 21 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0° | 2842 | 2842 | 2842 | 2842 | 2842 |
| 5° | 3388 | 3146 | 2818 | 2610 | 2610 |
| 10° | 5421 | 3672 | 2641 | 2483 | 2483 |
| 15° | 13479 | 4921 | 2407 | 2318 | 2407 |
| 20° | 35519 | 7368 | 2071 | 2218 | 2346 |
| 25° | 71317 | 10908 | 1805 | 2071 | 2299 |
| 30° | 105120 | 14617 | 1452 | 2028 | 2347 |
| 35° | 132602 | 17135 | 1240 | 1997 | 2439 |
| 40° | 141480 | 17311 | 1124 | 2068 | 2608 |
| 45° | 146988 | 14443 | 1047 | 2241 | 2825 |
| 50° | 146773 | 10074 | 1018 | 2411 | 3162 |
| 55° | 124728 | 4474 | 1051 | 2702 | 3483 |
| 60° | 83838 | 896 | 1068 | 2997 | 3996 |
| 65° | 22250 | 367 | 1060 | 3260 | 4523 |
| 70° | 604 | 453 | 1057 | 3575 | 5136 |
| 75° | 466 | 466 | 1131 | 3793 | 5789 |
| 80° | 496 | 694 | 1190 | 3967 | 6546 |
| 85° | 395 | 988 | 1778 | 4150 | 6521 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 150786 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1.6 | 0.6 |
| 10°-20° | 8.1 | 2.8 |
| 20°-30° | 33.3 | 11.6 |
| 30°-40° | 70.1 | 24.5 |
| 40°-50° | 86.5 | 30.3 |
| 50°-60° | 64.8 | 22.7 |
| 60°-70° | 16.7 | 5.8 |
| 70°-80° | 3.5 | 1.2 |
| 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° | 43.0 | 15.0 |
| 0°-40° | 113.1 | 39.5 |
| 0°-60° | 264.5 | 92.5 |
| 0°-90° | 286.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 286.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 16 | 16 | 16 | 16 | 16 | |
| 5° | 20 | 18 | 16 | 15 | 15 | 2 |
| 15° | 76 | 28 | 14 | 13 | 14 | 28 |
| 25° | 375 | 57 | 10 | 11 | 12 | 175 |
| 35° | 631 | 82 | 6 | 10 | 12 | 384 |
| 45° | 604 | 59 | 4 | 9 | 12 | 462 |
| 55° | 415 | 15 | 4 | 9 | 12 | 359 |
| 65° | 55 | 1 | 3 | 8 | 11 | 79 |
| 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° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|--------|
| 0° | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |
| 2.5° | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.3 | 17.0 | 16.5 | 16.1 |
| 5° | 19.6 | 19.4 | 19.4 | 19.4 | 19.1 | 18.9 | 18.9 | 18.2 | 17.3 | 16.3 | 15.6 |
| 7.5° | 23.2 | 23.2 | 22.9 | 22.4 | 22.2 | 21.7 | 21.3 | 19.4 | 17.3 | 15.8 | 14.9 |
| 10° | 31.0 | 30.5 | 29.8 | 29.3 | 28.1 | 26.5 | 25.3 | 21.0 | 17.0 | 15.1 | 14.4 |
| 12.5° | 46.3 | 47.3 | 44.9 | 42.5 | 39.2 | 36.2 | 32.4 | 23.9 | 17.0 | 14.4 | 13.7 |
| 15° | 75.6 | 77.3 | 72.8 | 68.1 | 60.0 | 52.5 | 45.4 | 27.6 | 16.5 | 13.5 | 12.8 |
| 17.5° | 123.6 | 125.7 | 118.2 | 107.1 | 94.5 | 79.4 | 66.4 | 32.8 | 16.1 | 12.5 | 12.1 |
| 20° | 193.8 | 193.5 | 178.9 | 164.9 | 140.8 | 118.6 | 94.3 | 40.2 | 15.4 | 11.3 | 11.3 |
| 22.5° | 280.0 | 281.0 | 263.0 | 238.0 | 203.7 | 168.0 | 129.3 | 48.7 | 14.4 | 10.4 | 10.6 |
| 25° | 375.3 | 367.2 | 346.0 | 315.5 | 271.8 | 222.4 | 171.3 | 57.4 | 13.5 | 9.5 | 9.9 |
| 27.5° | 454.7 | 446.9 | 422.5 | 386.4 | 339.3 | 280.7 | 214.1 | 66.2 | 12.3 | 8.5 | 9.2 |
| 30° | 528.6 | 518.7 | 489.4 | 448.5 | 392.5 | 329.2 | 254.3 | 73.5 | 10.9 | 7.3 | 8.5 |
| 32.5° | 589.6 | 580.6 | 547.3 | 499.8 | 438.8 | 370.8 | 288.3 | 79.2 | 9.5 | 6.6 | 8.0 |
| 35° | 630.7 | 621.5 | 590.8 | 538.6 | 472.2 | 401.0 | 316.0 | 81.5 | 8.3 | 5.9 | 7.8 |
| 37.5° | 640.2 | 635.2 | 613.2 | 564.3 | 495.1 | 420.4 | 333.7 | 80.8 | 6.9 | 5.4 | 7.3 |
| 40° | 629.3 | 630.5 | 620.1 | 579.4 | 507.4 | 428.7 | 341.0 | 77.0 | 5.7 | 5.0 | 7.1 |
| 42.5° | 615.4 | 618.4 | 617.7 | 585.6 | 512.6 | 429.1 | 337.9 | 69.5 | 4.5 | 4.5 | 6.9 |
| 45° | 603.5 | 606.6 | 610.9 | 583.0 | 509.0 | 423.0 | 328.2 | 59.3 | 3.3 | 4.3 | 6.9 |
| 47.5° | 582.0 | 585.4 | 591.5 | 562.2 | 491.1 | 407.2 | 310.8 | 48.2 | 2.4 | 4.0 | 6.6 |
| 50° | 547.8 | 549.4 | 547.8 | 514.9 | 456.6 | 381.6 | 282.4 | 37.6 | 1.7 | 3.8 | 6.6 |
| 52.5° | 512.6 | 509.3 | 495.6 | 454.0 | 401.7 | 341.2 | 246.7 | 26.7 | 1.2 | 3.5 | 6.4 |
| 55° | 415.4 | 410.2 | 400.1 | 374.6 | 344.8 | 291.6 | 199.4 | 14.9 | 1.2 | 3.5 | 6.1 |
| 57.5° | 289.5 | 292.3 | 295.9 | 290.7 | 277.0 | 229.7 | 151.5 | 6.6 | 1.2 | 3.3 | 6.1 |
| 60° | 243.4 | 241.0 | 241.3 | 238.0 | 215.3 | 167.5 | 104.2 | 2.6 | 1.2 | 3.1 | 5.9 |
| 62.5° | 145.3 | 147.0 | 150.1 | 150.8 | 128.3 | 93.6 | 54.6 | 1.2 | 1.2 | 2.8 | 5.7 |
| 65° | 54.6 | 57.2 | 50.1 | 43.5 | 34.5 | 25.3 | 12.8 | 0.9 | 1.4 | 2.6 | 5.2 |
| 67.5° | 1.7 | 1.9 | 2.4 | 2.1 | 2.1 | 1.9 | 1.4 | 0.9 | 1.4 | 2.4 | 5.0 |
| 70° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 0.9 | 0.9 | 0.9 | 1.2 | 2.1 | 4.5 |
| 72.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.2 | 1.9 | 4.0 |
| 75° | 0.7 | 0.9 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.2 | 1.7 | 3.3 |
| 77.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.9 | 1.4 | 2.8 |
| 80° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.7 | 0.9 | 1.2 | 2.4 |
| 82.5° | 0.5 | 0.5 | 0.5 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 1.9 |
| 85° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 0.7 | 0.9 | 1.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.5 | 0.7 | 0.7 | 0.7 |
| 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):

| | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0° | 16.5 | 16.5 | 16.5 |
| 2.5° | 15.6 | 15.6 | 15.6 |
| 5° | 15.1 | 15.1 | 15.1 |
| 7.5° | 14.7 | 14.7 | 14.7 |
| 10° | 14.2 | 14.2 | 14.2 |
| 12.5° | 13.7 | 13.7 | 13.9 |
| 15° | 13.0 | 13.5 | 13.5 |
| 17.5° | 12.5 | 13.0 | 13.2 |
| 20° | 12.1 | 12.5 | 12.8 |
| 22.5° | 11.3 | 12.1 | 12.5 |
| 25° | 10.9 | 11.8 | 12.1 |
| 27.5° | 10.4 | 11.6 | 12.1 |
| 30° | 10.2 | 11.3 | 11.8 |
| 32.5° | 9.7 | 11.1 | 11.6 |
| 35° | 9.5 | 11.1 | 11.6 |
| 37.5° | 9.5 | 10.9 | 11.6 |
| 40° | 9.2 | 10.9 | 11.6 |
| 42.5° | 9.2 | 10.9 | 11.6 |
| 45° | 9.2 | 10.9 | 11.6 |
| 47.5° | 9.0 | 10.9 | 11.8 |
| 50° | 9.0 | 11.1 | 11.8 |
| 52.5° | 9.0 | 11.1 | 11.8 |
| 55° | 9.0 | 11.1 | 11.6 |
| 57.5° | 8.7 | 10.9 | 11.6 |
| 60° | 8.7 | 10.9 | 11.6 |
| 62.5° | 8.3 | 10.6 | 11.3 |
| 65° | 8.0 | 10.4 | 11.1 |
| 67.5° | 7.6 | 10.2 | 10.6 |
| 70° | 7.1 | 9.5 | 10.2 |
| 72.5° | 6.4 | 9.0 | 9.7 |
| 75° | 5.7 | 8.3 | 8.7 |
| 77.5° | 5.0 | 7.3 | 7.8 |
| 80° | 4.0 | 6.1 | 6.6 |
| 82.5° | 3.1 | 4.7 | 5.0 |
| 85° | 2.1 | 3.1 | 3.3 |
| 87.5° | 0.9 | 1.4 | 1.7 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)