

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: P1317372

Luminaire Tested: LDSQA3D09R459827DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317372
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: LDSQA3D09R459827DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

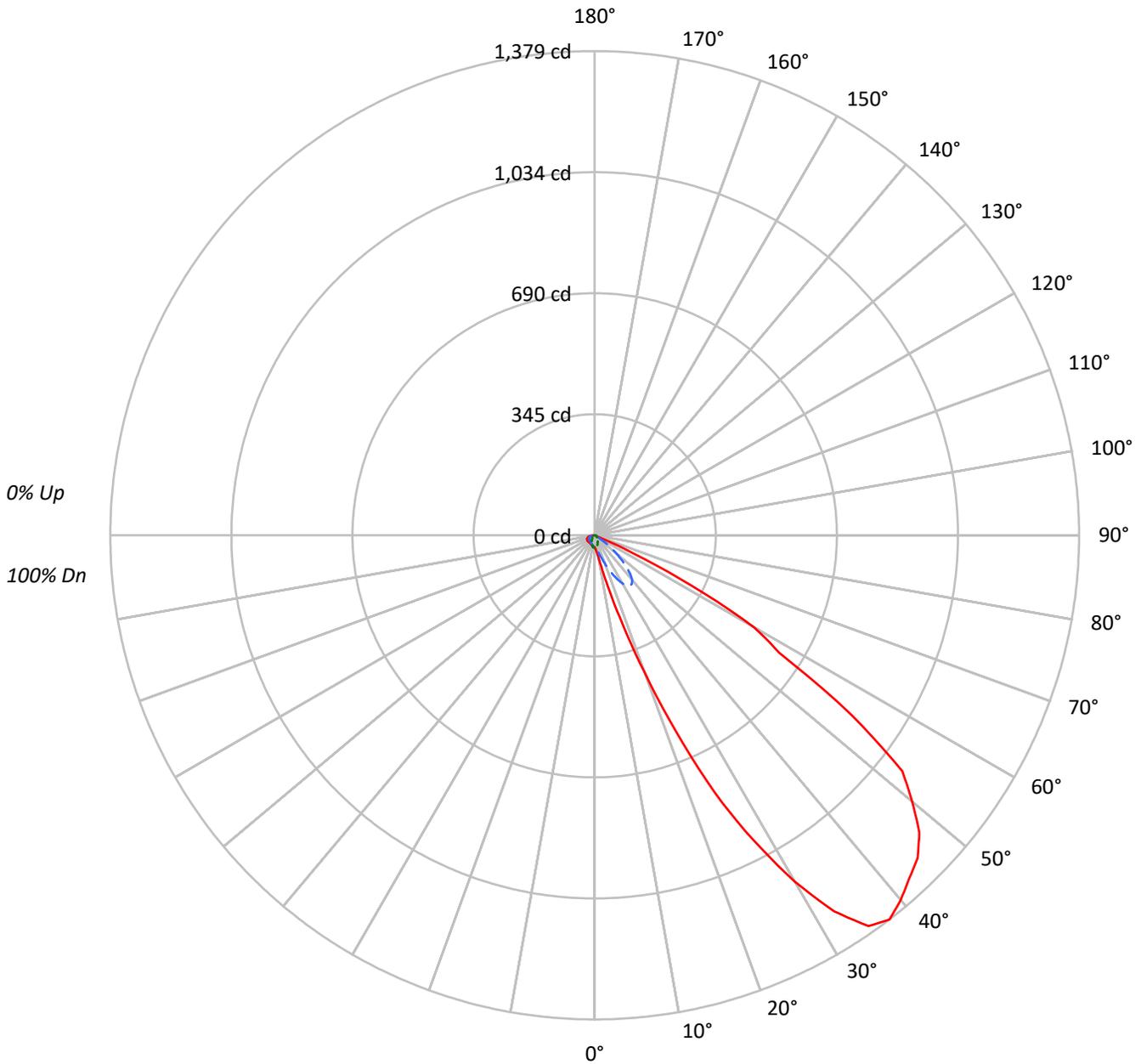
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 616.0 lumens
Efficiency: N/A
Efficacy: 56.0 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): 11
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



— 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° | 6131 | 6131 | 6131 | 6131 | 6131 |
| 5° | 7296 | 6777 | 6068 | 5636 | 5636 |
| 10° | 11664 | 7922 | 5701 | 5334 | 5334 |
| 15° | 29045 | 10627 | 5171 | 4992 | 5171 |
| 20° | 76499 | 15853 | 4472 | 4765 | 5040 |
| 25° | 153599 | 23506 | 3877 | 4447 | 4941 |
| 30° | 226428 | 31480 | 3142 | 4355 | 5051 |
| 35° | 285618 | 36919 | 2670 | 4289 | 5235 |
| 40° | 304722 | 37298 | 2406 | 4474 | 5598 |
| 45° | 316603 | 31127 | 2241 | 4847 | 6065 |
| 50° | 316105 | 21676 | 2170 | 5171 | 6805 |
| 55° | 268674 | 9638 | 2282 | 5795 | 7476 |
| 60° | 180593 | 1929 | 2273 | 6476 | 8577 |
| 65° | 47924 | 815 | 2282 | 7050 | 9740 |
| 70° | 1259 | 1007 | 2316 | 7704 | 11028 |
| 75° | 998 | 998 | 2396 | 8118 | 12510 |
| 80° | 992 | 1488 | 2479 | 8629 | 14183 |
| 85° | 988 | 1976 | 3952 | 9090 | 14030 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 324770 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 3.5 | 0.6 |
| 10°-20° | 17.4 | 2.8 |
| 20°-30° | 71.7 | 11.6 |
| 30°-40° | 151.0 | 24.5 |
| 40°-50° | 186.3 | 30.3 |
| 50°-60° | 139.6 | 22.7 |
| 60°-70° | 35.9 | 5.8 |
| 70°-80° | 7.4 | 1.2 |
| 80°-90° | 3.0 | 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° | 92.6 | 15.0 |
| 0°-40° | 243.6 | 39.5 |
| 0°-60° | 569.6 | 92.5 |
| 0°-90° | 616.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 616.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 36 | 36 | 36 | 36 | 36 | |
| 5° | 42 | 39 | 35 | 33 | 33 | 5 |
| 15° | 163 | 60 | 29 | 28 | 29 | 60 |
| 25° | 808 | 124 | 20 | 23 | 26 | 377 |
| 35° | 1358 | 176 | 13 | 20 | 25 | 828 |
| 45° | 1300 | 128 | 9 | 20 | 25 | 995 |
| 55° | 895 | 32 | 8 | 19 | 25 | 773 |
| 65° | 118 | 2 | 6 | 17 | 24 | 170 |
| 75° | 2 | 2 | 4 | 12 | 19 | 2 |
| 85° | 0 | 1 | 2 | 5 | 7 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1317372

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|------|--------|
| 0° | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |
| 2.5° | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.2 | 36.6 | 35.6 | 34.6 |
| 5° | 42.2 | 41.7 | 41.7 | 41.7 | 41.2 | 40.7 | 40.7 | 39.2 | 37.2 | 35.1 | 33.6 |
| 7.5° | 49.9 | 49.9 | 49.4 | 48.4 | 47.8 | 46.8 | 45.8 | 41.7 | 37.2 | 34.1 | 32.1 |
| 10° | 66.7 | 65.7 | 64.1 | 63.1 | 60.6 | 57.0 | 54.5 | 45.3 | 36.6 | 32.6 | 31.0 |
| 12.5° | 99.8 | 101.8 | 96.7 | 91.6 | 84.5 | 77.9 | 69.7 | 51.4 | 36.6 | 31.0 | 29.5 |
| 15° | 162.9 | 166.4 | 156.8 | 146.6 | 129.3 | 113.0 | 97.7 | 59.6 | 35.6 | 29.0 | 27.5 |
| 17.5° | 266.2 | 270.8 | 254.5 | 230.6 | 203.6 | 171.0 | 143.0 | 70.7 | 34.6 | 27.0 | 26.0 |
| 20° | 417.4 | 416.9 | 385.3 | 355.3 | 303.4 | 255.5 | 203.1 | 86.5 | 33.1 | 24.4 | 24.4 |
| 22.5° | 603.1 | 605.2 | 566.5 | 512.5 | 438.7 | 361.9 | 278.4 | 104.9 | 31.0 | 22.4 | 22.9 |
| 25° | 808.3 | 791.0 | 745.2 | 679.5 | 585.3 | 479.0 | 369.0 | 123.7 | 29.0 | 20.4 | 21.4 |
| 27.5° | 979.3 | 962.5 | 910.1 | 832.2 | 730.9 | 604.7 | 461.1 | 142.5 | 26.5 | 18.3 | 19.9 |
| 30° | 1138.6 | 1117.2 | 1054.1 | 966.1 | 845.4 | 709.0 | 547.7 | 158.3 | 23.4 | 15.8 | 18.3 |
| 32.5° | 1269.9 | 1250.6 | 1178.8 | 1076.5 | 945.2 | 798.6 | 621.0 | 170.5 | 20.4 | 14.3 | 17.3 |
| 35° | 1358.5 | 1338.6 | 1272.5 | 1160.0 | 1017.0 | 863.7 | 680.5 | 175.6 | 17.8 | 12.7 | 16.8 |
| 37.5° | 1378.8 | 1368.2 | 1320.8 | 1215.5 | 1066.3 | 905.5 | 718.7 | 174.1 | 14.8 | 11.7 | 15.8 |
| 40° | 1355.4 | 1358.0 | 1335.6 | 1248.0 | 1092.8 | 923.3 | 734.5 | 165.9 | 12.2 | 10.7 | 15.3 |
| 42.5° | 1325.4 | 1332.0 | 1330.5 | 1261.3 | 1104.0 | 924.3 | 727.8 | 149.6 | 9.7 | 9.7 | 14.8 |
| 45° | 1299.9 | 1306.6 | 1315.7 | 1255.7 | 1096.4 | 911.1 | 707.0 | 127.8 | 7.1 | 9.2 | 14.8 |
| 47.5° | 1253.6 | 1260.8 | 1274.0 | 1210.9 | 1057.7 | 877.0 | 669.3 | 103.8 | 5.1 | 8.7 | 14.3 |
| 50° | 1179.8 | 1183.4 | 1179.8 | 1109.1 | 983.4 | 822.0 | 608.2 | 80.9 | 3.6 | 8.1 | 14.3 |
| 52.5° | 1104.0 | 1096.9 | 1067.3 | 977.8 | 865.3 | 735.0 | 531.4 | 57.5 | 2.5 | 7.6 | 13.7 |
| 55° | 894.8 | 883.6 | 861.7 | 806.7 | 742.6 | 628.1 | 429.6 | 32.1 | 2.5 | 7.6 | 13.2 |
| 57.5° | 623.5 | 629.6 | 637.3 | 626.1 | 596.5 | 494.7 | 326.3 | 14.3 | 2.5 | 7.1 | 13.2 |
| 60° | 524.3 | 519.2 | 519.7 | 512.5 | 463.7 | 360.9 | 224.5 | 5.6 | 2.5 | 6.6 | 12.7 |
| 62.5° | 313.0 | 316.6 | 323.2 | 324.7 | 276.4 | 201.6 | 117.6 | 2.5 | 2.5 | 6.1 | 12.2 |
| 65° | 117.6 | 123.2 | 107.9 | 93.7 | 74.3 | 54.5 | 27.5 | 2.0 | 3.1 | 5.6 | 11.2 |
| 67.5° | 3.6 | 4.1 | 5.1 | 4.6 | 4.6 | 4.1 | 3.1 | 2.0 | 3.1 | 5.1 | 10.7 |
| 70° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.0 | 2.0 | 2.0 | 2.5 | 4.6 | 9.7 |
| 72.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.5 | 4.1 | 8.7 |
| 75° | 1.5 | 2.0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.5 | 3.6 | 7.1 |
| 77.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.0 | 3.1 | 6.1 |
| 80° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 2.0 | 2.5 | 5.1 |
| 82.5° | 1.0 | 1.0 | 1.0 | 0.5 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 4.1 |
| 85° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 1.0 | 1.5 | 1.5 | 1.5 |
| 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° | 35.6 | 35.6 | 35.6 |
| 2.5° | 33.6 | 33.6 | 33.6 |
| 5° | 32.6 | 32.6 | 32.6 |
| 7.5° | 31.6 | 31.6 | 31.6 |
| 10° | 30.5 | 30.5 | 30.5 |
| 12.5° | 29.5 | 29.5 | 30.0 |
| 15° | 28.0 | 29.0 | 29.0 |
| 17.5° | 27.0 | 28.0 | 28.5 |
| 20° | 26.0 | 27.0 | 27.5 |
| 22.5° | 24.4 | 26.0 | 27.0 |
| 25° | 23.4 | 25.4 | 26.0 |
| 27.5° | 22.4 | 24.9 | 26.0 |
| 30° | 21.9 | 24.4 | 25.4 |
| 32.5° | 20.9 | 23.9 | 24.9 |
| 35° | 20.4 | 23.9 | 24.9 |
| 37.5° | 20.4 | 23.4 | 24.9 |
| 40° | 19.9 | 23.4 | 24.9 |
| 42.5° | 19.9 | 23.4 | 24.9 |
| 45° | 19.9 | 23.4 | 24.9 |
| 47.5° | 19.3 | 23.4 | 25.4 |
| 50° | 19.3 | 23.9 | 25.4 |
| 52.5° | 19.3 | 23.9 | 25.4 |
| 55° | 19.3 | 23.9 | 24.9 |
| 57.5° | 18.8 | 23.4 | 24.9 |
| 60° | 18.8 | 23.4 | 24.9 |
| 62.5° | 17.8 | 22.9 | 24.4 |
| 65° | 17.3 | 22.4 | 23.9 |
| 67.5° | 16.3 | 21.9 | 22.9 |
| 70° | 15.3 | 20.4 | 21.9 |
| 72.5° | 13.7 | 19.3 | 20.9 |
| 75° | 12.2 | 17.8 | 18.8 |
| 77.5° | 10.7 | 15.8 | 16.8 |
| 80° | 8.7 | 13.2 | 14.3 |
| 82.5° | 6.6 | 10.2 | 10.7 |
| 85° | 4.6 | 6.6 | 7.1 |
| 87.5° | 2.0 | 3.1 | 3.6 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)