

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: P1314835

Luminaire Tested: LDSQA3D17R459730DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314835
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: LDSQA3D17R459730DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

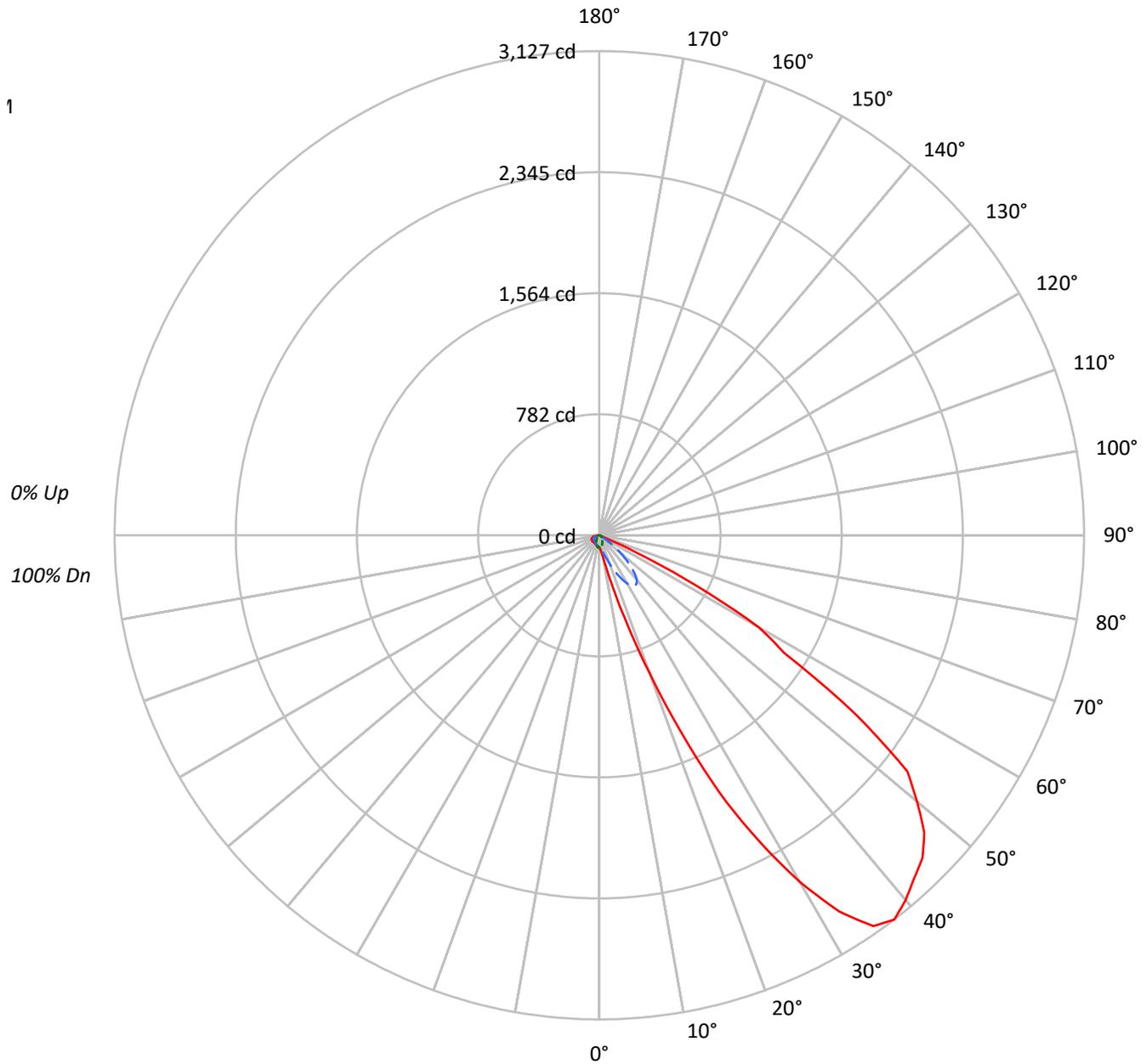
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1397.0 lumens
Efficiency: N/A
Efficacy: 65.9 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): 21.2
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° | 13916 | 13916 | 13916 | 13916 | 13916 |
| 5° | 16562 | 15369 | 13761 | 12776 | 12776 |
| 10° | 26442 | 17960 | 12924 | 12119 | 12119 |
| 15° | 65863 | 24088 | 11732 | 11322 | 11732 |
| 20° | 173470 | 35959 | 10153 | 10795 | 11418 |
| 25° | 348319 | 53302 | 8779 | 10090 | 11193 |
| 30° | 513511 | 71393 | 7119 | 9864 | 11475 |
| 35° | 647723 | 83720 | 6076 | 9713 | 11900 |
| 40° | 691076 | 84600 | 5441 | 10117 | 12725 |
| 45° | 718038 | 70559 | 5066 | 10960 | 13785 |
| 50° | 716903 | 49165 | 4957 | 11762 | 15460 |
| 55° | 609320 | 21829 | 5195 | 13181 | 16995 |
| 60° | 409511 | 4374 | 5167 | 14708 | 19496 |
| 65° | 108643 | 1875 | 5175 | 15975 | 22128 |
| 70° | 2921 | 2316 | 5237 | 17423 | 24976 |
| 75° | 2329 | 2329 | 5390 | 18432 | 28413 |
| 80° | 2281 | 3471 | 5752 | 19439 | 32035 |
| 85° | 2371 | 4545 | 9090 | 20551 | 32012 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 736520 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 8.0 | 0.6 |
| 10°-20° | 39.4 | 2.8 |
| 20°-30° | 162.5 | 11.6 |
| 30°-40° | 342.5 | 24.5 |
| 40°-50° | 422.6 | 30.2 |
| 50°-60° | 316.7 | 22.7 |
| 60°-70° | 81.5 | 5.8 |
| 70°-80° | 16.9 | 1.2 |
| 80°-90° | 6.9 | 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° | 210.0 | 15.0 |
| 0°-40° | 552.5 | 39.5 |
| 0°-60° | 1291.8 | 92.5 |
| 0°-90° | 1397.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1397.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 81 | 81 | 81 | 81 | 81 | |
| 5° | 96 | 89 | 80 | 74 | 74 | 11 |
| 15° | 369 | 135 | 66 | 64 | 66 | 135 |
| 25° | 1833 | 280 | 46 | 53 | 59 | 854 |
| 35° | 3081 | 398 | 29 | 46 | 57 | 1877 |
| 45° | 2948 | 290 | 21 | 45 | 57 | 2256 |
| 55° | 2029 | 73 | 17 | 44 | 57 | 1752 |
| 65° | 267 | 5 | 13 | 39 | 54 | 384 |
| 75° | 4 | 4 | 8 | 28 | 43 | 4 |
| 85° | 1 | 2 | 5 | 10 | 16 | 1 |
| 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° | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 |
| 2.5° | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 84.3 | 83.1 | 80.8 | 78.5 |
| 5° | 95.8 | 94.7 | 94.7 | 94.7 | 93.5 | 92.3 | 92.3 | 88.9 | 84.3 | 79.6 | 76.2 |
| 7.5° | 113.1 | 113.1 | 112.0 | 109.7 | 108.5 | 106.2 | 103.9 | 94.7 | 84.3 | 77.3 | 72.7 |
| 10° | 151.2 | 148.9 | 145.4 | 143.1 | 137.4 | 129.3 | 123.5 | 102.7 | 83.1 | 73.9 | 70.4 |
| 12.5° | 226.2 | 230.9 | 219.3 | 207.8 | 191.6 | 176.6 | 158.1 | 116.6 | 83.1 | 70.4 | 66.9 |
| 15° | 369.4 | 377.5 | 355.5 | 332.4 | 293.2 | 256.3 | 221.6 | 135.1 | 80.8 | 65.8 | 62.3 |
| 17.5° | 603.7 | 614.1 | 577.2 | 522.9 | 461.7 | 387.8 | 324.4 | 160.4 | 78.5 | 61.2 | 58.9 |
| 20° | 946.5 | 945.4 | 873.8 | 805.7 | 688.0 | 579.5 | 460.6 | 196.2 | 75.0 | 55.4 | 55.4 |
| 22.5° | 1367.9 | 1372.5 | 1284.7 | 1162.4 | 995.0 | 820.7 | 631.4 | 237.8 | 70.4 | 50.8 | 51.9 |
| 25° | 1833.0 | 1793.8 | 1689.9 | 1541.0 | 1327.5 | 1086.2 | 836.9 | 280.5 | 65.8 | 46.2 | 48.5 |
| 27.5° | 2220.9 | 2182.8 | 2063.9 | 1887.3 | 1657.6 | 1371.3 | 1045.8 | 323.2 | 60.0 | 41.6 | 45.0 |
| 30° | 2582.2 | 2533.7 | 2390.6 | 2190.9 | 1917.3 | 1608.0 | 1242.0 | 359.0 | 53.1 | 35.8 | 41.6 |
| 32.5° | 2880.0 | 2836.1 | 2673.4 | 2441.4 | 2143.5 | 1811.1 | 1408.3 | 386.7 | 46.2 | 32.3 | 39.2 |
| 35° | 3080.8 | 3035.8 | 2885.8 | 2630.7 | 2306.3 | 1958.9 | 1543.3 | 398.2 | 40.4 | 28.9 | 38.1 |
| 37.5° | 3127.0 | 3102.8 | 2995.4 | 2756.5 | 2418.3 | 2053.5 | 1629.9 | 394.8 | 33.5 | 26.5 | 35.8 |
| 40° | 3073.9 | 3079.7 | 3028.9 | 2830.4 | 2478.3 | 2093.9 | 1665.7 | 376.3 | 27.7 | 24.2 | 34.6 |
| 42.5° | 3005.8 | 3020.8 | 3017.4 | 2860.4 | 2503.7 | 2096.2 | 1650.7 | 339.4 | 21.9 | 21.9 | 33.5 |
| 45° | 2948.1 | 2963.1 | 2983.9 | 2847.7 | 2486.4 | 2066.2 | 1603.3 | 289.7 | 16.2 | 20.8 | 33.5 |
| 47.5° | 2843.1 | 2859.2 | 2889.2 | 2746.1 | 2398.7 | 1988.9 | 1517.9 | 235.5 | 11.5 | 19.6 | 32.3 |
| 50° | 2675.7 | 2683.8 | 2675.7 | 2515.2 | 2230.1 | 1864.2 | 1379.4 | 183.5 | 8.1 | 18.5 | 32.3 |
| 52.5° | 2503.7 | 2487.5 | 2420.6 | 2217.4 | 1962.3 | 1666.8 | 1205.1 | 130.4 | 5.8 | 17.3 | 31.2 |
| 55° | 2029.3 | 2003.9 | 1954.2 | 1829.6 | 1684.1 | 1424.4 | 974.2 | 72.7 | 5.8 | 17.3 | 30.0 |
| 57.5° | 1414.0 | 1427.9 | 1445.2 | 1419.8 | 1352.8 | 1122.0 | 739.9 | 32.3 | 5.8 | 16.2 | 30.0 |
| 60° | 1188.9 | 1177.4 | 1178.5 | 1162.4 | 1051.6 | 818.4 | 509.0 | 12.7 | 5.8 | 15.0 | 28.9 |
| 62.5° | 709.9 | 718.0 | 733.0 | 736.4 | 626.8 | 457.1 | 266.6 | 5.8 | 5.8 | 13.9 | 27.7 |
| 65° | 266.6 | 279.3 | 244.7 | 212.4 | 168.5 | 123.5 | 62.3 | 4.6 | 6.9 | 12.7 | 25.4 |
| 67.5° | 8.1 | 9.2 | 11.5 | 10.4 | 10.4 | 9.2 | 6.9 | 4.6 | 6.9 | 11.5 | 24.2 |
| 70° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 4.6 | 4.6 | 4.6 | 5.8 | 10.4 | 21.9 |
| 72.5° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 5.8 | 9.2 | 19.6 |
| 75° | 3.5 | 4.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 5.8 | 8.1 | 16.2 |
| 77.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 4.6 | 6.9 | 13.9 |
| 80° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 3.5 | 4.6 | 5.8 | 11.5 |
| 82.5° | 2.3 | 2.3 | 2.3 | 1.2 | 2.3 | 2.3 | 2.3 | 2.3 | 4.6 | 4.6 | 9.2 |
| 85° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.3 | 3.5 | 4.6 | 5.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 2.3 | 3.5 | 3.5 | 3.5 |
| 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° | 80.8 | 80.8 | 80.8 |
| 2.5° | 76.2 | 76.2 | 76.2 |
| 5° | 73.9 | 73.9 | 73.9 |
| 7.5° | 71.6 | 71.6 | 71.6 |
| 10° | 69.3 | 69.3 | 69.3 |
| 12.5° | 66.9 | 66.9 | 68.1 |
| 15° | 63.5 | 65.8 | 65.8 |
| 17.5° | 61.2 | 63.5 | 64.6 |
| 20° | 58.9 | 61.2 | 62.3 |
| 22.5° | 55.4 | 58.9 | 61.2 |
| 25° | 53.1 | 57.7 | 58.9 |
| 27.5° | 50.8 | 56.6 | 58.9 |
| 30° | 49.6 | 55.4 | 57.7 |
| 32.5° | 47.3 | 54.3 | 56.6 |
| 35° | 46.2 | 54.3 | 56.6 |
| 37.5° | 46.2 | 53.1 | 56.6 |
| 40° | 45.0 | 53.1 | 56.6 |
| 42.5° | 45.0 | 53.1 | 56.6 |
| 45° | 45.0 | 53.1 | 56.6 |
| 47.5° | 43.9 | 53.1 | 57.7 |
| 50° | 43.9 | 54.3 | 57.7 |
| 52.5° | 43.9 | 54.3 | 57.7 |
| 55° | 43.9 | 54.3 | 56.6 |
| 57.5° | 42.7 | 53.1 | 56.6 |
| 60° | 42.7 | 53.1 | 56.6 |
| 62.5° | 40.4 | 51.9 | 55.4 |
| 65° | 39.2 | 50.8 | 54.3 |
| 67.5° | 36.9 | 49.6 | 51.9 |
| 70° | 34.6 | 46.2 | 49.6 |
| 72.5° | 31.2 | 43.9 | 47.3 |
| 75° | 27.7 | 40.4 | 42.7 |
| 77.5° | 24.2 | 35.8 | 38.1 |
| 80° | 19.6 | 30.0 | 32.3 |
| 82.5° | 15.0 | 23.1 | 24.2 |
| 85° | 10.4 | 15.0 | 16.2 |
| 87.5° | 4.6 | 6.9 | 8.1 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)