

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: P1323944

Luminaire Tested: LDSQA3D13R459030D2WDE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1323944
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: LDSQA3D13R459030D2WDE010 3LSQCA45R 1MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

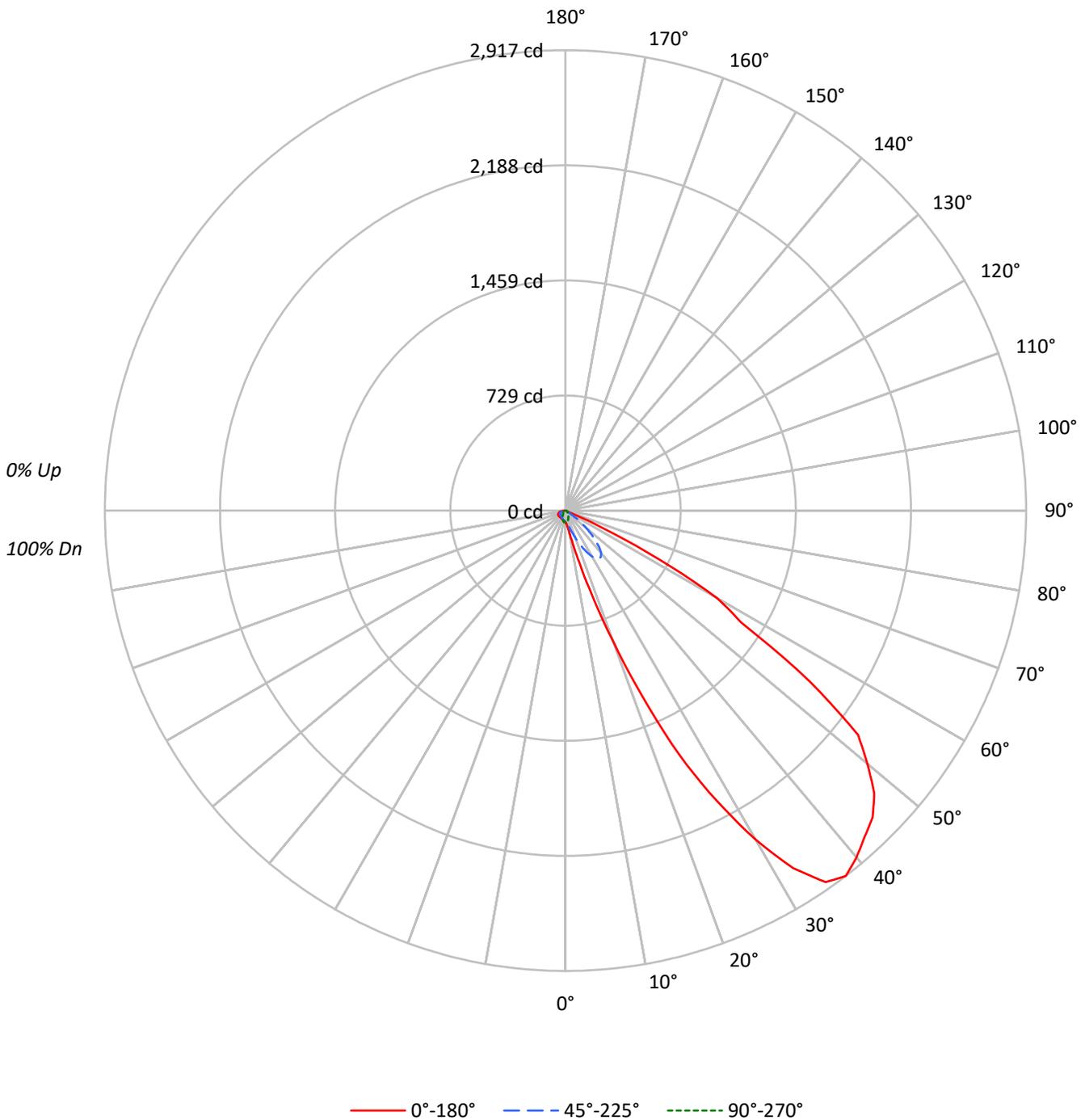
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1303.0 lumens
Efficiency: N/A
Efficacy: 64.8 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): 20.1
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: P1323944

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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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 |
| 1 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 88 | 86 | 86 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 73 | 73 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | 61 | 61 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 | 51 | 51 |
| 5 | 76 | 63 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 | 43 | 43 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 46 | 39 | 52 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 36 | 36 | 36 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 33 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 31 | 31 | 31 |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 35 | 29 | 42 | 34 | 29 | 40 | 33 | 28 | 39 | 33 | 28 | 26 | 26 | 26 |
| 9 | 53 | 39 | 31 | 25 | 52 | 39 | 30 | 25 | 38 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 22 | 22 | 22 |
| 10 | 49 | 36 | 27 | 22 | 48 | 35 | 27 | 22 | 34 | 27 | 21 | 33 | 26 | 21 | 32 | 26 | 21 | 19 | 19 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|-------|-------|-------|
| 0° | 12986 | 12986 | 12986 | 12986 | 12986 |
| 5° | 15456 | 14332 | 12845 | 11911 | 11911 |
| 10° | 24658 | 16753 | 12049 | 11297 | 11297 |
| 15° | 61424 | 22466 | 10947 | 10555 | 10947 |
| 20° | 161796 | 33539 | 9475 | 10062 | 10648 |
| 25° | 324889 | 49711 | 8190 | 9406 | 10432 |
| 30° | 478948 | 66580 | 6642 | 9207 | 10699 |
| 35° | 604139 | 78085 | 5656 | 9062 | 11101 |
| 40° | 644583 | 78912 | 5081 | 9442 | 11871 |
| 45° | 669716 | 65810 | 4725 | 10230 | 12860 |
| 50° | 668648 | 45870 | 4608 | 10958 | 14415 |
| 55° | 568304 | 20358 | 4834 | 12281 | 15854 |
| 60° | 381955 | 4064 | 4822 | 13709 | 18187 |
| 65° | 101349 | 1752 | 4809 | 14915 | 20620 |
| 70° | 2719 | 2165 | 4884 | 16265 | 23314 |
| 75° | 2129 | 2129 | 4991 | 17168 | 26484 |
| 80° | 2182 | 3174 | 5356 | 18150 | 29853 |
| 85° | 2174 | 4347 | 8497 | 19168 | 29838 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 686963 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 7.5 | 0.6 |
| 10°-20° | 36.8 | 2.8 |
| 20°-30° | 151.6 | 11.6 |
| 30°-40° | 319.5 | 24.5 |
| 40°-50° | 394.1 | 30.2 |
| 50°-60° | 295.4 | 22.7 |
| 60°-70° | 76.0 | 5.8 |
| 70°-80° | 15.8 | 1.2 |
| 80°-90° | 6.4 | 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° | 195.8 | 15.0 |
| 0°-40° | 515.3 | 39.5 |
| 0°-60° | 1204.8 | 92.5 |
| 0°-90° | 1303.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1303.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 75 | 75 | 75 | 75 | 75 | |
| 5° | 89 | 83 | 74 | 69 | 69 | 10 |
| 15° | 344 | 126 | 61 | 59 | 61 | 126 |
| 25° | 1710 | 262 | 43 | 50 | 55 | 797 |
| 35° | 2874 | 371 | 27 | 43 | 53 | 1751 |
| 45° | 2750 | 270 | 19 | 42 | 53 | 2104 |
| 55° | 1893 | 68 | 16 | 41 | 53 | 1634 |
| 65° | 249 | 4 | 12 | 37 | 51 | 359 |
| 75° | 3 | 3 | 8 | 26 | 40 | 4 |
| 85° | 1 | 2 | 4 | 10 | 15 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1323944

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|
| 0° | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 |
| 2.5° | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 78.6 | 77.5 | 75.4 | 73.2 |
| 5° | 89.4 | 88.3 | 88.3 | 88.3 | 87.2 | 86.1 | 86.1 | 82.9 | 78.6 | 74.3 | 71.1 |
| 7.5° | 105.5 | 105.5 | 104.4 | 102.3 | 101.2 | 99.1 | 96.9 | 88.3 | 78.6 | 72.1 | 67.8 |
| 10° | 141.0 | 138.9 | 135.7 | 133.5 | 128.1 | 120.6 | 115.2 | 95.8 | 77.5 | 68.9 | 65.7 |
| 12.5° | 211.0 | 215.3 | 204.6 | 193.8 | 178.7 | 164.7 | 147.5 | 108.7 | 77.5 | 65.7 | 62.4 |
| 15° | 344.5 | 352.1 | 331.6 | 310.1 | 273.5 | 239.0 | 206.7 | 126.0 | 75.4 | 61.4 | 58.1 |
| 17.5° | 563.1 | 572.8 | 538.3 | 487.7 | 430.7 | 361.8 | 302.5 | 149.7 | 73.2 | 57.1 | 54.9 |
| 20° | 882.8 | 881.8 | 815.0 | 751.5 | 641.7 | 540.5 | 429.6 | 183.0 | 70.0 | 51.7 | 51.7 |
| 22.5° | 1275.8 | 1280.1 | 1198.3 | 1084.2 | 928.1 | 765.5 | 588.9 | 221.8 | 65.7 | 47.4 | 48.4 |
| 25° | 1709.7 | 1673.1 | 1576.2 | 1437.3 | 1238.1 | 1013.1 | 780.6 | 261.6 | 61.4 | 43.1 | 45.2 |
| 27.5° | 2071.5 | 2035.9 | 1925.0 | 1760.3 | 1546.1 | 1279.0 | 975.4 | 301.5 | 56.0 | 38.8 | 42.0 |
| 30° | 2408.4 | 2363.2 | 2229.7 | 2043.5 | 1788.3 | 1499.8 | 1158.5 | 334.8 | 49.5 | 33.4 | 38.8 |
| 32.5° | 2686.2 | 2645.3 | 2493.5 | 2277.1 | 1999.3 | 1689.2 | 1313.5 | 360.7 | 43.1 | 30.1 | 36.6 |
| 35° | 2873.5 | 2831.6 | 2691.6 | 2453.7 | 2151.1 | 1827.1 | 1439.5 | 371.4 | 37.7 | 26.9 | 35.5 |
| 37.5° | 2916.6 | 2894.0 | 2793.9 | 2571.0 | 2255.6 | 1915.3 | 1520.2 | 368.2 | 31.2 | 24.8 | 33.4 |
| 40° | 2867.1 | 2872.5 | 2825.1 | 2639.9 | 2311.5 | 1953.0 | 1553.6 | 351.0 | 25.8 | 22.6 | 32.3 |
| 42.5° | 2803.6 | 2817.6 | 2814.3 | 2667.9 | 2335.2 | 1955.2 | 1539.6 | 316.5 | 20.5 | 20.5 | 31.2 |
| 45° | 2749.7 | 2763.7 | 2783.1 | 2656.1 | 2319.1 | 1927.2 | 1495.4 | 270.2 | 15.1 | 19.4 | 31.2 |
| 47.5° | 2651.8 | 2666.8 | 2694.8 | 2561.3 | 2237.3 | 1855.0 | 1415.8 | 219.6 | 10.8 | 18.3 | 30.1 |
| 50° | 2495.6 | 2503.2 | 2495.6 | 2346.0 | 2080.1 | 1738.8 | 1286.6 | 171.2 | 7.5 | 17.2 | 30.1 |
| 52.5° | 2335.2 | 2320.2 | 2257.7 | 2068.2 | 1830.3 | 1554.7 | 1124.0 | 121.7 | 5.4 | 16.1 | 29.1 |
| 55° | 1892.7 | 1869.0 | 1822.7 | 1706.5 | 1570.8 | 1328.6 | 908.7 | 67.8 | 5.4 | 16.1 | 28.0 |
| 57.5° | 1318.9 | 1331.8 | 1347.9 | 1324.3 | 1261.8 | 1046.5 | 690.1 | 30.1 | 5.4 | 15.1 | 28.0 |
| 60° | 1108.9 | 1098.2 | 1099.2 | 1084.2 | 980.8 | 763.3 | 474.8 | 11.8 | 5.4 | 14.0 | 26.9 |
| 62.5° | 662.1 | 669.7 | 683.7 | 686.9 | 584.6 | 426.3 | 248.7 | 5.4 | 5.4 | 12.9 | 25.8 |
| 65° | 248.7 | 260.5 | 228.2 | 198.1 | 157.2 | 115.2 | 58.1 | 4.3 | 6.5 | 11.8 | 23.7 |
| 67.5° | 7.5 | 8.6 | 10.8 | 9.7 | 9.7 | 8.6 | 6.5 | 4.3 | 6.5 | 10.8 | 22.6 |
| 70° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 4.3 | 4.3 | 4.3 | 5.4 | 9.7 | 20.5 |
| 72.5° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 5.4 | 8.6 | 18.3 |
| 75° | 3.2 | 4.3 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 5.4 | 7.5 | 15.1 |
| 77.5° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 4.3 | 6.5 | 12.9 |
| 80° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.2 | 4.3 | 5.4 | 10.8 |
| 82.5° | 2.2 | 2.2 | 2.2 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 | 4.3 | 4.3 | 8.6 |
| 85° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 3.2 | 4.3 | 5.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 2.2 | 3.2 | 3.2 | 3.2 |
| 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° | 75.4 | 75.4 | 75.4 |
| 2.5° | 71.1 | 71.1 | 71.1 |
| 5° | 68.9 | 68.9 | 68.9 |
| 7.5° | 66.8 | 66.8 | 66.8 |
| 10° | 64.6 | 64.6 | 64.6 |
| 12.5° | 62.4 | 62.4 | 63.5 |
| 15° | 59.2 | 61.4 | 61.4 |
| 17.5° | 57.1 | 59.2 | 60.3 |
| 20° | 54.9 | 57.1 | 58.1 |
| 22.5° | 51.7 | 54.9 | 57.1 |
| 25° | 49.5 | 53.8 | 54.9 |
| 27.5° | 47.4 | 52.8 | 54.9 |
| 30° | 46.3 | 51.7 | 53.8 |
| 32.5° | 44.1 | 50.6 | 52.8 |
| 35° | 43.1 | 50.6 | 52.8 |
| 37.5° | 43.1 | 49.5 | 52.8 |
| 40° | 42.0 | 49.5 | 52.8 |
| 42.5° | 42.0 | 49.5 | 52.8 |
| 45° | 42.0 | 49.5 | 52.8 |
| 47.5° | 40.9 | 49.5 | 53.8 |
| 50° | 40.9 | 50.6 | 53.8 |
| 52.5° | 40.9 | 50.6 | 53.8 |
| 55° | 40.9 | 50.6 | 52.8 |
| 57.5° | 39.8 | 49.5 | 52.8 |
| 60° | 39.8 | 49.5 | 52.8 |
| 62.5° | 37.7 | 48.4 | 51.7 |
| 65° | 36.6 | 47.4 | 50.6 |
| 67.5° | 34.5 | 46.3 | 48.4 |
| 70° | 32.3 | 43.1 | 46.3 |
| 72.5° | 29.1 | 40.9 | 44.1 |
| 75° | 25.8 | 37.7 | 39.8 |
| 77.5° | 22.6 | 33.4 | 35.5 |
| 80° | 18.3 | 28.0 | 30.1 |
| 82.5° | 14.0 | 21.5 | 22.6 |
| 85° | 9.7 | 14.0 | 15.1 |
| 87.5° | 4.3 | 6.5 | 7.5 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)