

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: P1314687

Luminaire Tested: LDSQA3D13R459730DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314687
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: LDSQA3D13R459730DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

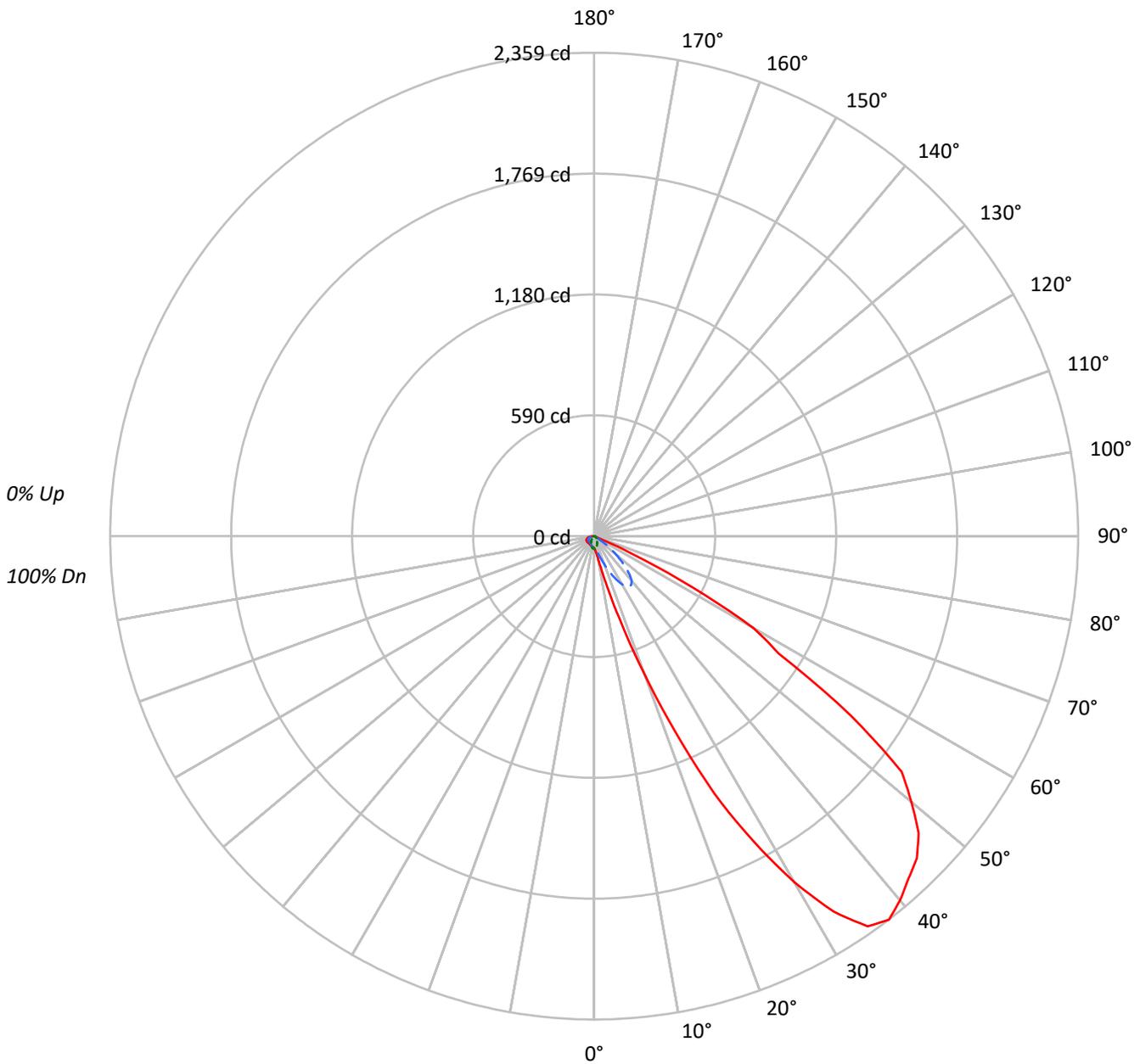
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1054.0 lumens
Efficiency: N/A
Efficacy: 72.2 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): 14.6
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° | 10506 | 10506 | 10506 | 10506 | 10506 |
| 5° | 12499 | 11600 | 10390 | 9629 | 9629 |
| 10° | 19954 | 13553 | 9741 | 9146 | 9146 |
| 15° | 49692 | 18169 | 8844 | 8540 | 8844 |
| 20° | 130877 | 27143 | 7661 | 8137 | 8614 |
| 25° | 262807 | 40210 | 6613 | 7620 | 8437 |
| 30° | 387430 | 53853 | 5369 | 7438 | 8651 |
| 35° | 488694 | 63179 | 4583 | 7317 | 8977 |
| 40° | 521404 | 63827 | 4114 | 7644 | 9600 |
| 45° | 541750 | 53242 | 3824 | 8281 | 10400 |
| 50° | 540872 | 37108 | 3724 | 8869 | 11655 |
| 55° | 459700 | 16484 | 3933 | 9939 | 12821 |
| 60° | 308967 | 3307 | 3892 | 11091 | 14708 |
| 65° | 81992 | 1426 | 3912 | 12062 | 16667 |
| 70° | 2216 | 1762 | 3928 | 13143 | 18833 |
| 75° | 1730 | 1730 | 4059 | 13907 | 21426 |
| 80° | 1686 | 2579 | 4364 | 14679 | 24200 |
| 85° | 1778 | 3359 | 6916 | 15413 | 24108 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 555678 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 6.1 | 0.6 |
| 10°-20° | 29.7 | 2.8 |
| 20°-30° | 122.6 | 11.6 |
| 30°-40° | 258.4 | 24.5 |
| 40°-50° | 318.8 | 30.2 |
| 50°-60° | 239.0 | 22.7 |
| 60°-70° | 61.5 | 5.8 |
| 70°-80° | 12.7 | 1.2 |
| 80°-90° | 5.2 | 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° | 158.4 | 15.0 |
| 0°-40° | 416.8 | 39.5 |
| 0°-60° | 974.6 | 92.5 |
| 0°-90° | 1054.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1054.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 61 | 61 | 61 | 61 | 61 | |
| 5° | 72 | 67 | 60 | 56 | 56 | 8 |
| 15° | 279 | 102 | 50 | 48 | 50 | 102 |
| 25° | 1383 | 212 | 35 | 40 | 44 | 644 |
| 35° | 2324 | 300 | 22 | 35 | 43 | 1417 |
| 45° | 2224 | 219 | 16 | 34 | 43 | 1702 |
| 55° | 1531 | 55 | 13 | 33 | 43 | 1322 |
| 65° | 201 | 4 | 10 | 30 | 41 | 290 |
| 75° | 3 | 3 | 6 | 21 | 32 | 3 |
| 85° | 1 | 2 | 4 | 8 | 12 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1314687

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|
| 0° | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 |
| 2.5° | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 63.6 | 62.7 | 61.0 | 59.2 |
| 5° | 72.3 | 71.4 | 71.4 | 71.4 | 70.5 | 69.7 | 69.7 | 67.1 | 63.6 | 60.1 | 57.5 |
| 7.5° | 85.3 | 85.3 | 84.5 | 82.7 | 81.9 | 80.1 | 78.4 | 71.4 | 63.6 | 58.3 | 54.9 |
| 10° | 114.1 | 112.3 | 109.7 | 108.0 | 103.6 | 97.5 | 93.2 | 77.5 | 62.7 | 55.7 | 53.1 |
| 12.5° | 170.7 | 174.2 | 165.5 | 156.8 | 144.6 | 133.2 | 119.3 | 88.0 | 62.7 | 53.1 | 50.5 |
| 15° | 278.7 | 284.8 | 268.2 | 250.8 | 221.2 | 193.3 | 167.2 | 101.9 | 61.0 | 49.6 | 47.0 |
| 17.5° | 455.5 | 463.3 | 435.4 | 394.5 | 348.4 | 292.6 | 244.7 | 121.1 | 59.2 | 46.2 | 44.4 |
| 20° | 714.1 | 713.3 | 659.3 | 607.9 | 519.1 | 437.2 | 347.5 | 148.1 | 56.6 | 41.8 | 41.8 |
| 22.5° | 1032.0 | 1035.5 | 969.3 | 877.0 | 750.7 | 619.2 | 476.4 | 179.4 | 53.1 | 38.3 | 39.2 |
| 25° | 1383.0 | 1353.4 | 1275.0 | 1162.6 | 1001.5 | 819.5 | 631.4 | 211.6 | 49.6 | 34.8 | 36.6 |
| 27.5° | 1675.6 | 1646.9 | 1557.2 | 1423.9 | 1250.6 | 1034.6 | 789.0 | 243.9 | 45.3 | 31.4 | 34.0 |
| 30° | 1948.2 | 1911.6 | 1803.6 | 1653.0 | 1446.6 | 1213.2 | 937.1 | 270.8 | 40.1 | 27.0 | 31.4 |
| 32.5° | 2172.9 | 2139.8 | 2017.0 | 1841.9 | 1617.3 | 1366.4 | 1062.5 | 291.7 | 34.8 | 24.4 | 29.6 |
| 35° | 2324.4 | 2290.5 | 2177.2 | 1984.8 | 1740.0 | 1477.9 | 1164.4 | 300.5 | 30.5 | 21.8 | 28.7 |
| 37.5° | 2359.3 | 2341.0 | 2260.0 | 2079.7 | 1824.5 | 1549.3 | 1229.7 | 297.8 | 25.3 | 20.0 | 27.0 |
| 40° | 2319.2 | 2323.5 | 2285.2 | 2135.4 | 1869.8 | 1579.8 | 1256.7 | 283.9 | 20.9 | 18.3 | 26.1 |
| 42.5° | 2267.8 | 2279.1 | 2276.5 | 2158.1 | 1889.0 | 1581.5 | 1245.4 | 256.0 | 16.5 | 16.5 | 25.3 |
| 45° | 2224.3 | 2235.6 | 2251.3 | 2148.5 | 1875.9 | 1558.9 | 1209.7 | 218.6 | 12.2 | 15.7 | 25.3 |
| 47.5° | 2145.0 | 2157.2 | 2179.8 | 2071.9 | 1809.7 | 1500.6 | 1145.2 | 177.7 | 8.7 | 14.8 | 24.4 |
| 50° | 2018.7 | 2024.8 | 2018.7 | 1897.7 | 1682.6 | 1406.5 | 1040.7 | 138.5 | 6.1 | 13.9 | 24.4 |
| 52.5° | 1889.0 | 1876.8 | 1826.3 | 1673.0 | 1480.5 | 1257.6 | 909.2 | 98.4 | 4.4 | 13.1 | 23.5 |
| 55° | 1531.0 | 1511.9 | 1474.4 | 1380.4 | 1270.6 | 1074.7 | 735.0 | 54.9 | 4.4 | 13.1 | 22.6 |
| 57.5° | 1066.8 | 1077.3 | 1090.4 | 1071.2 | 1020.7 | 846.5 | 558.2 | 24.4 | 4.4 | 12.2 | 22.6 |
| 60° | 897.0 | 888.3 | 889.2 | 877.0 | 793.4 | 617.5 | 384.1 | 9.6 | 4.4 | 11.3 | 21.8 |
| 62.5° | 535.6 | 541.7 | 553.0 | 555.6 | 472.9 | 344.9 | 201.2 | 4.4 | 4.4 | 10.5 | 20.9 |
| 65° | 201.2 | 210.8 | 184.6 | 160.2 | 127.2 | 93.2 | 47.0 | 3.5 | 5.2 | 9.6 | 19.2 |
| 67.5° | 6.1 | 7.0 | 8.7 | 7.8 | 7.8 | 7.0 | 5.2 | 3.5 | 5.2 | 8.7 | 18.3 |
| 70° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 3.5 | 3.5 | 3.5 | 4.4 | 7.8 | 16.5 |
| 72.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 4.4 | 7.0 | 14.8 |
| 75° | 2.6 | 3.5 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 4.4 | 6.1 | 12.2 |
| 77.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 3.5 | 5.2 | 10.5 |
| 80° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 2.6 | 3.5 | 4.4 | 8.7 |
| 82.5° | 1.7 | 1.7 | 1.7 | 0.9 | 1.7 | 1.7 | 1.7 | 1.7 | 3.5 | 3.5 | 7.0 |
| 85° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 2.6 | 3.5 | 4.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 | 1.7 | 2.6 | 2.6 | 2.6 |
| 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° | 61.0 | 61.0 | 61.0 |
| 2.5° | 57.5 | 57.5 | 57.5 |
| 5° | 55.7 | 55.7 | 55.7 |
| 7.5° | 54.0 | 54.0 | 54.0 |
| 10° | 52.3 | 52.3 | 52.3 |
| 12.5° | 50.5 | 50.5 | 51.4 |
| 15° | 47.9 | 49.6 | 49.6 |
| 17.5° | 46.2 | 47.9 | 48.8 |
| 20° | 44.4 | 46.2 | 47.0 |
| 22.5° | 41.8 | 44.4 | 46.2 |
| 25° | 40.1 | 43.5 | 44.4 |
| 27.5° | 38.3 | 42.7 | 44.4 |
| 30° | 37.4 | 41.8 | 43.5 |
| 32.5° | 35.7 | 40.9 | 42.7 |
| 35° | 34.8 | 40.9 | 42.7 |
| 37.5° | 34.8 | 40.1 | 42.7 |
| 40° | 34.0 | 40.1 | 42.7 |
| 42.5° | 34.0 | 40.1 | 42.7 |
| 45° | 34.0 | 40.1 | 42.7 |
| 47.5° | 33.1 | 40.1 | 43.5 |
| 50° | 33.1 | 40.9 | 43.5 |
| 52.5° | 33.1 | 40.9 | 43.5 |
| 55° | 33.1 | 40.9 | 42.7 |
| 57.5° | 32.2 | 40.1 | 42.7 |
| 60° | 32.2 | 40.1 | 42.7 |
| 62.5° | 30.5 | 39.2 | 41.8 |
| 65° | 29.6 | 38.3 | 40.9 |
| 67.5° | 27.9 | 37.4 | 39.2 |
| 70° | 26.1 | 34.8 | 37.4 |
| 72.5° | 23.5 | 33.1 | 35.7 |
| 75° | 20.9 | 30.5 | 32.2 |
| 77.5° | 18.3 | 27.0 | 28.7 |
| 80° | 14.8 | 22.6 | 24.4 |
| 82.5° | 11.3 | 17.4 | 18.3 |
| 85° | 7.8 | 11.3 | 12.2 |
| 87.5° | 3.5 | 5.2 | 6.1 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)