

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: P1314519

Luminaire Tested: LDSQA3D09R459730DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314519
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: LDSQA3D09R459730DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

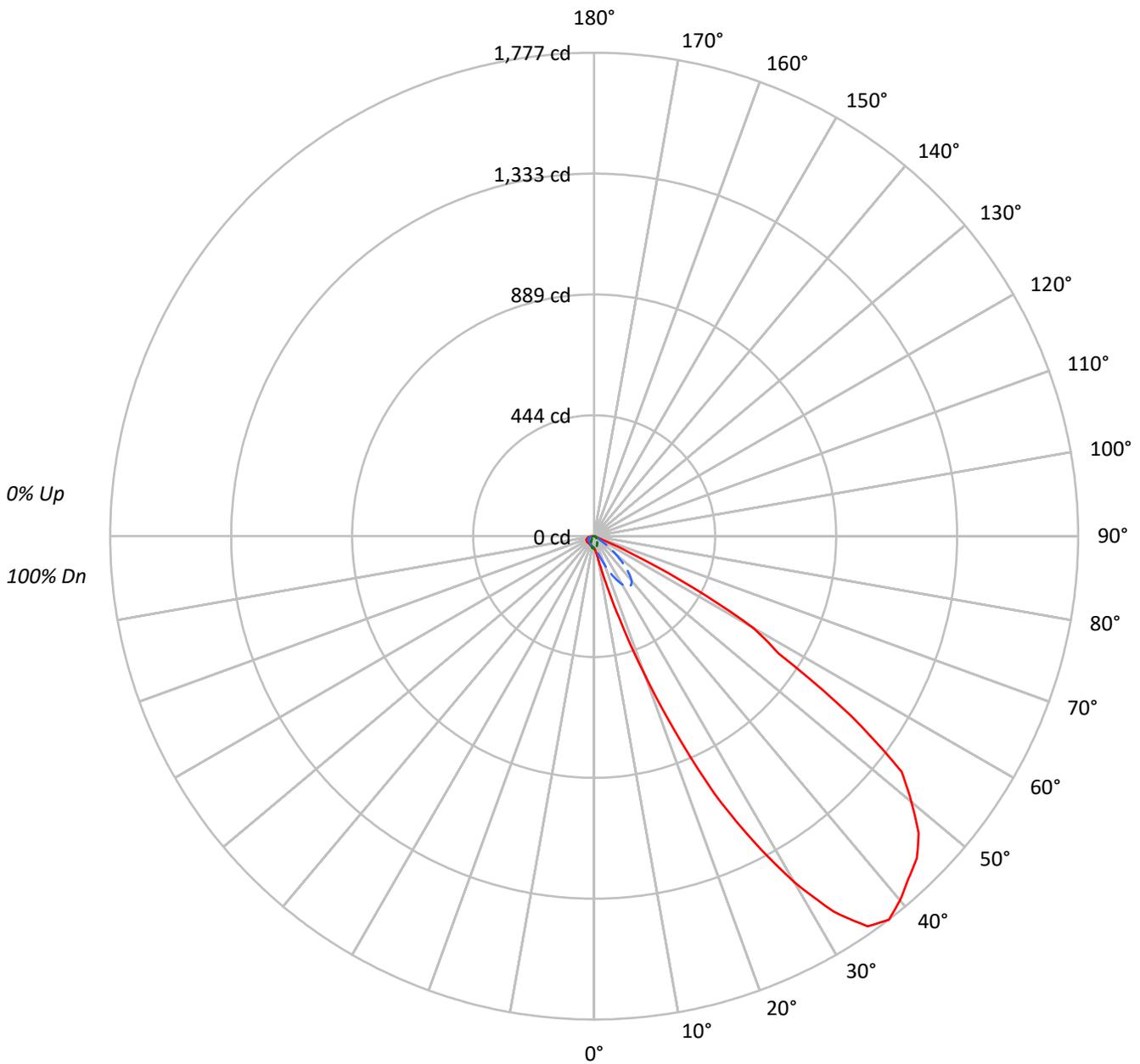
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 794.0 lumens
Efficiency: N/A
Efficacy: 71.5 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): 11.1
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



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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|------|-------|-------|
| 0° | 7905 | 7905 | 7905 | 7905 | 7905 |
| 5° | 9422 | 8730 | 7831 | 7261 | 7261 |
| 10° | 15022 | 10213 | 7345 | 6890 | 6890 |
| 15° | 37425 | 13693 | 6668 | 6437 | 6668 |
| 20° | 98602 | 20435 | 5773 | 6140 | 6488 |
| 25° | 197970 | 30290 | 4979 | 5739 | 6366 |
| 30° | 291855 | 40569 | 4037 | 5608 | 6523 |
| 35° | 368139 | 47578 | 3448 | 5508 | 6749 |
| 40° | 392784 | 48089 | 3103 | 5755 | 7217 |
| 45° | 408108 | 40114 | 2874 | 6235 | 7818 |
| 50° | 407469 | 27945 | 2813 | 6671 | 8788 |
| 55° | 346321 | 12401 | 2943 | 7476 | 9638 |
| 60° | 232742 | 2480 | 2928 | 8370 | 11057 |
| 65° | 61779 | 1060 | 2934 | 9088 | 12551 |
| 70° | 1662 | 1309 | 2971 | 9920 | 14200 |
| 75° | 1331 | 1331 | 3061 | 10447 | 16170 |
| 80° | 1289 | 1984 | 3273 | 11108 | 18249 |
| 85° | 1383 | 2569 | 5138 | 11659 | 18180 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 418607 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 4.6 | 0.6 |
| 10°-20° | 22.4 | 2.8 |
| 20°-30° | 92.4 | 11.6 |
| 30°-40° | 194.7 | 24.5 |
| 40°-50° | 240.2 | 30.2 |
| 50°-60° | 180.0 | 22.7 |
| 60°-70° | 46.3 | 5.8 |
| 70°-80° | 9.6 | 1.2 |
| 80°-90° | 3.9 | 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° | 119.3 | 15.0 |
| 0°-40° | 314.0 | 39.5 |
| 0°-60° | 734.2 | 92.5 |
| 0°-90° | 794.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 794.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 46 | 46 | 46 | 46 | 46 | |
| 5° | 54 | 50 | 45 | 42 | 42 | 6 |
| 15° | 210 | 77 | 37 | 36 | 37 | 77 |
| 25° | 1042 | 159 | 26 | 30 | 34 | 485 |
| 35° | 1751 | 226 | 16 | 26 | 32 | 1067 |
| 45° | 1676 | 165 | 12 | 26 | 32 | 1282 |
| 55° | 1153 | 41 | 10 | 25 | 32 | 996 |
| 65° | 152 | 3 | 7 | 22 | 31 | 219 |
| 75° | 2 | 2 | 5 | 16 | 24 | 2 |
| 85° | 1 | 1 | 3 | 6 | 9 | 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° | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 |
| 2.5° | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 47.9 | 47.2 | 45.9 | 44.6 |
| 5° | 54.5 | 53.8 | 53.8 | 53.8 | 53.1 | 52.5 | 52.5 | 50.5 | 47.9 | 45.3 | 43.3 |
| 7.5° | 64.3 | 64.3 | 63.6 | 62.3 | 61.7 | 60.4 | 59.0 | 53.8 | 47.9 | 44.0 | 41.3 |
| 10° | 85.9 | 84.6 | 82.7 | 81.4 | 78.1 | 73.5 | 70.2 | 58.4 | 47.2 | 42.0 | 40.0 |
| 12.5° | 128.6 | 131.2 | 124.7 | 118.1 | 108.9 | 100.4 | 89.9 | 66.3 | 47.2 | 40.0 | 38.1 |
| 15° | 209.9 | 214.5 | 202.1 | 188.9 | 166.6 | 145.6 | 126.0 | 76.8 | 45.9 | 37.4 | 35.4 |
| 17.5° | 343.1 | 349.0 | 328.0 | 297.2 | 262.4 | 220.4 | 184.4 | 91.2 | 44.6 | 34.8 | 33.5 |
| 20° | 538.0 | 537.3 | 496.6 | 457.9 | 391.0 | 329.3 | 261.8 | 111.5 | 42.6 | 31.5 | 31.5 |
| 22.5° | 777.4 | 780.1 | 730.2 | 660.7 | 565.5 | 466.5 | 358.9 | 135.1 | 40.0 | 28.9 | 29.5 |
| 25° | 1041.8 | 1019.5 | 960.5 | 875.8 | 754.5 | 617.4 | 475.6 | 159.4 | 37.4 | 26.2 | 27.6 |
| 27.5° | 1262.3 | 1240.6 | 1173.0 | 1072.7 | 942.1 | 779.4 | 594.4 | 183.7 | 34.1 | 23.6 | 25.6 |
| 30° | 1467.6 | 1440.1 | 1358.7 | 1245.2 | 1089.7 | 913.9 | 705.9 | 204.0 | 30.2 | 20.3 | 23.6 |
| 32.5° | 1636.9 | 1611.9 | 1519.4 | 1387.6 | 1218.3 | 1029.4 | 800.4 | 219.8 | 26.2 | 18.4 | 22.3 |
| 35° | 1751.0 | 1725.4 | 1640.2 | 1495.2 | 1310.8 | 1113.3 | 877.2 | 226.3 | 23.0 | 16.4 | 21.7 |
| 37.5° | 1777.3 | 1763.5 | 1702.5 | 1566.7 | 1374.5 | 1167.1 | 926.4 | 224.4 | 19.0 | 15.1 | 20.3 |
| 40° | 1747.1 | 1750.4 | 1721.5 | 1608.7 | 1408.6 | 1190.1 | 946.7 | 213.9 | 15.7 | 13.8 | 19.7 |
| 42.5° | 1708.4 | 1716.9 | 1714.9 | 1625.7 | 1423.0 | 1191.4 | 938.2 | 192.9 | 12.5 | 12.5 | 19.0 |
| 45° | 1675.6 | 1684.1 | 1695.9 | 1618.5 | 1413.2 | 1174.4 | 911.3 | 164.7 | 9.2 | 11.8 | 19.0 |
| 47.5° | 1615.9 | 1625.1 | 1642.1 | 1560.8 | 1363.3 | 1130.4 | 862.7 | 133.8 | 6.6 | 11.2 | 18.4 |
| 50° | 1520.8 | 1525.3 | 1520.8 | 1429.6 | 1267.5 | 1059.5 | 784.0 | 104.3 | 4.6 | 10.5 | 18.4 |
| 52.5° | 1423.0 | 1413.8 | 1375.8 | 1260.3 | 1115.3 | 947.4 | 684.9 | 74.1 | 3.3 | 9.8 | 17.7 |
| 55° | 1153.4 | 1138.9 | 1110.7 | 1039.9 | 957.2 | 809.6 | 553.7 | 41.3 | 3.3 | 9.8 | 17.1 |
| 57.5° | 803.7 | 811.5 | 821.4 | 807.0 | 768.9 | 637.7 | 420.5 | 18.4 | 3.3 | 9.2 | 17.1 |
| 60° | 675.7 | 669.2 | 669.8 | 660.7 | 597.7 | 465.1 | 289.3 | 7.2 | 3.3 | 8.5 | 16.4 |
| 62.5° | 403.5 | 408.1 | 416.6 | 418.6 | 356.2 | 259.8 | 151.6 | 3.3 | 3.3 | 7.9 | 15.7 |
| 65° | 151.6 | 158.8 | 139.1 | 120.7 | 95.8 | 70.2 | 35.4 | 2.6 | 3.9 | 7.2 | 14.4 |
| 67.5° | 4.6 | 5.2 | 6.6 | 5.9 | 5.9 | 5.2 | 3.9 | 2.6 | 3.9 | 6.6 | 13.8 |
| 70° | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 2.6 | 2.6 | 2.6 | 3.3 | 5.9 | 12.5 |
| 72.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 3.3 | 5.2 | 11.2 |
| 75° | 2.0 | 2.6 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 3.3 | 4.6 | 9.2 |
| 77.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.6 | 3.9 | 7.9 |
| 80° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 2.0 | 2.6 | 3.3 | 6.6 |
| 82.5° | 1.3 | 1.3 | 1.3 | 0.7 | 1.3 | 1.3 | 1.3 | 1.3 | 2.6 | 2.6 | 5.2 |
| 85° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.3 | 2.0 | 2.6 | 3.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 1.3 | 2.0 | 2.0 | 2.0 |
| 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° | 45.9 | 45.9 | 45.9 |
| 2.5° | 43.3 | 43.3 | 43.3 |
| 5° | 42.0 | 42.0 | 42.0 |
| 7.5° | 40.7 | 40.7 | 40.7 |
| 10° | 39.4 | 39.4 | 39.4 |
| 12.5° | 38.1 | 38.1 | 38.7 |
| 15° | 36.1 | 37.4 | 37.4 |
| 17.5° | 34.8 | 36.1 | 36.7 |
| 20° | 33.5 | 34.8 | 35.4 |
| 22.5° | 31.5 | 33.5 | 34.8 |
| 25° | 30.2 | 32.8 | 33.5 |
| 27.5° | 28.9 | 32.1 | 33.5 |
| 30° | 28.2 | 31.5 | 32.8 |
| 32.5° | 26.9 | 30.8 | 32.1 |
| 35° | 26.2 | 30.8 | 32.1 |
| 37.5° | 26.2 | 30.2 | 32.1 |
| 40° | 25.6 | 30.2 | 32.1 |
| 42.5° | 25.6 | 30.2 | 32.1 |
| 45° | 25.6 | 30.2 | 32.1 |
| 47.5° | 24.9 | 30.2 | 32.8 |
| 50° | 24.9 | 30.8 | 32.8 |
| 52.5° | 24.9 | 30.8 | 32.8 |
| 55° | 24.9 | 30.8 | 32.1 |
| 57.5° | 24.3 | 30.2 | 32.1 |
| 60° | 24.3 | 30.2 | 32.1 |
| 62.5° | 23.0 | 29.5 | 31.5 |
| 65° | 22.3 | 28.9 | 30.8 |
| 67.5° | 21.0 | 28.2 | 29.5 |
| 70° | 19.7 | 26.2 | 28.2 |
| 72.5° | 17.7 | 24.9 | 26.9 |
| 75° | 15.7 | 23.0 | 24.3 |
| 77.5° | 13.8 | 20.3 | 21.7 |
| 80° | 11.2 | 17.1 | 18.4 |
| 82.5° | 8.5 | 13.1 | 13.8 |
| 85° | 5.9 | 8.5 | 9.2 |
| 87.5° | 2.6 | 3.9 | 4.6 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)