

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: P1320000

Luminaire Tested: LDSQA3D09R459840DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320000
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: LDSQA3D09R459840DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

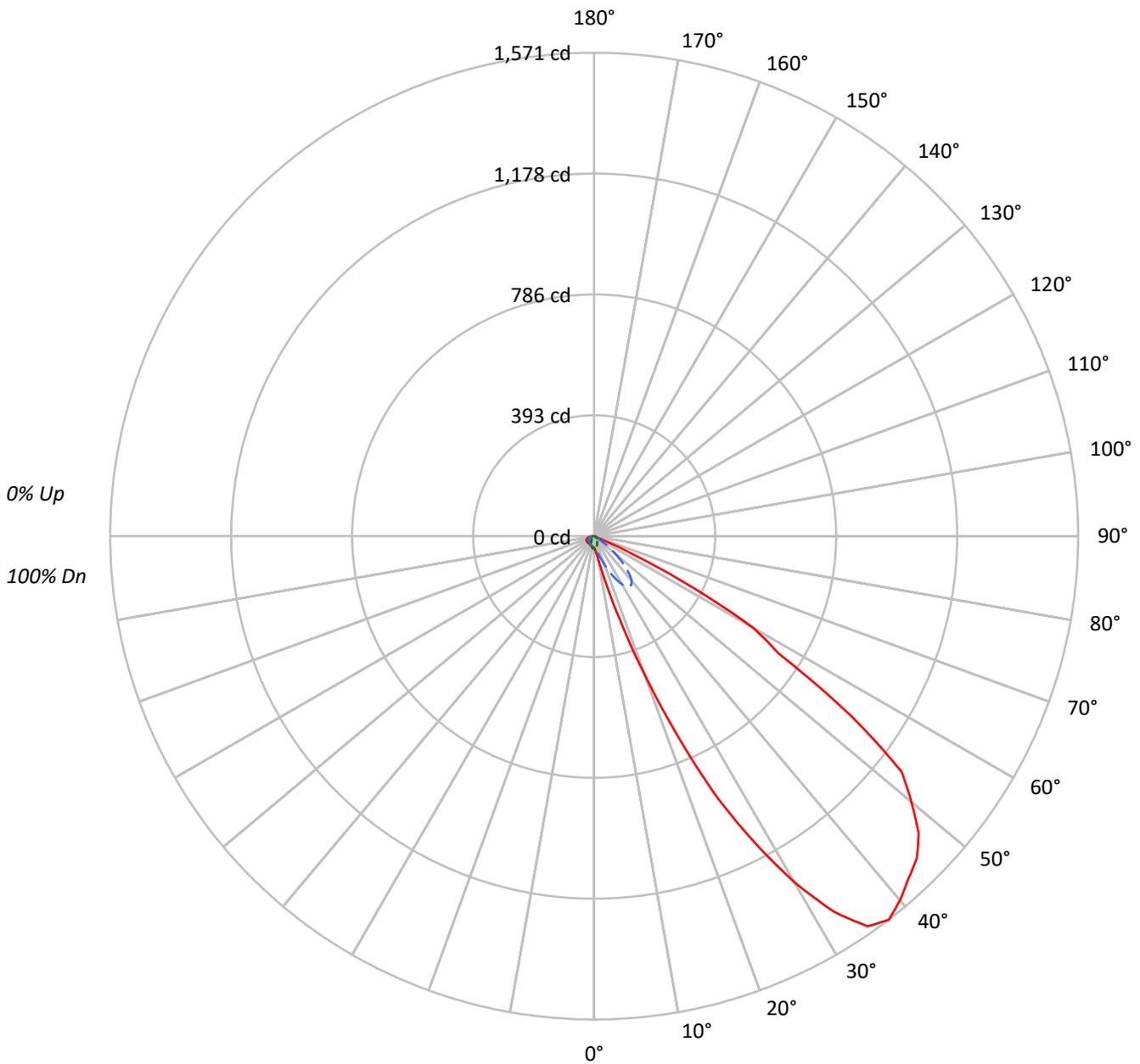
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 702.0 lumens
Efficiency: N/A
Efficacy: 63.8 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): 11
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

TEST NUMBER: P1320000
CATALOG NUMBER: LDSQA3D09R459840DE010 3LSQCA45R 1MB

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° - - - 90°-270°



TEST NUMBER: P1320000

CATALOG NUMBER: LDSQA3D09R459840DE010 3LSQCA45R 1MB

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° | 6992 | 6992 | 6992 | 6992 | 6992 |
| 5° | 8316 | 7728 | 6915 | 6414 | 6414 |
| 10° | 13291 | 9024 | 6488 | 6086 | 6086 |
| 15° | 33092 | 12106 | 5902 | 5688 | 5902 |
| 20° | 87166 | 18071 | 5095 | 5425 | 5737 |
| 25° | 175034 | 26794 | 4409 | 5074 | 5625 |
| 30° | 258048 | 35875 | 3580 | 4952 | 5767 |
| 35° | 325480 | 42070 | 3049 | 4878 | 5971 |
| 40° | 347281 | 42514 | 2743 | 5081 | 6385 |
| 45° | 360809 | 35462 | 2533 | 5504 | 6917 |
| 50° | 360233 | 24703 | 2492 | 5894 | 7770 |
| 55° | 306176 | 10960 | 2612 | 6606 | 8527 |
| 60° | 205772 | 2204 | 2583 | 7406 | 9782 |
| 65° | 54607 | 937 | 2608 | 8028 | 11125 |
| 70° | 1460 | 1158 | 2618 | 8762 | 12538 |
| 75° | 1131 | 1131 | 2728 | 9249 | 14306 |
| 80° | 1190 | 1686 | 2876 | 9819 | 16067 |
| 85° | 1186 | 2371 | 4545 | 10275 | 16006 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 370121 cd/sqm



TEST NUMBER: P1320000

CATALOG NUMBER: LDSQA3D09R459840DE010 3LSQCA45R 1MB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 4.0 | 0.6 |
| 10°-20° | 19.8 | 2.8 |
| 20°-30° | 81.7 | 11.6 |
| 30°-40° | 172.1 | 24.5 |
| 40°-50° | 212.3 | 30.2 |
| 50°-60° | 159.2 | 22.7 |
| 60°-70° | 41.0 | 5.8 |
| 70°-80° | 8.5 | 1.2 |
| 80°-90° | 3.4 | 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° | 105.5 | 15.0 |
| 0°-40° | 277.6 | 39.5 |
| 0°-60° | 649.1 | 92.5 |
| 0°-90° | 702.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 702.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 41 | 41 | 41 | 41 | 41 | |
| 5° | 48 | 45 | 40 | 37 | 37 | 5 |
| 15° | 186 | 68 | 33 | 32 | 33 | 68 |
| 25° | 921 | 141 | 23 | 27 | 30 | 429 |
| 35° | 1548 | 200 | 14 | 23 | 28 | 943 |
| 45° | 1481 | 146 | 10 | 23 | 28 | 1134 |
| 55° | 1020 | 36 | 9 | 22 | 28 | 880 |
| 65° | 134 | 2 | 6 | 20 | 27 | 193 |
| 75° | 2 | 2 | 4 | 14 | 22 | 2 |
| 85° | 1 | 1 | 2 | 5 | 8 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1320000

CATALOG NUMBER: LDSQA3D09R459840DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|--------|
| 0° | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 |
| 2.5° | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.3 | 41.8 | 40.6 | 39.4 |
| 5° | 48.1 | 47.6 | 47.6 | 47.6 | 47.0 | 46.4 | 46.4 | 44.7 | 42.3 | 40.0 | 38.3 |
| 7.5° | 56.8 | 56.8 | 56.3 | 55.1 | 54.5 | 53.4 | 52.2 | 47.6 | 42.3 | 38.9 | 36.5 |
| 10° | 76.0 | 74.8 | 73.1 | 71.9 | 69.0 | 65.0 | 62.1 | 51.6 | 41.8 | 37.1 | 35.4 |
| 12.5° | 113.7 | 116.0 | 110.2 | 104.4 | 96.3 | 88.7 | 79.5 | 58.6 | 41.8 | 35.4 | 33.6 |
| 15° | 185.6 | 189.7 | 178.7 | 167.1 | 147.3 | 128.8 | 111.4 | 67.9 | 40.6 | 33.1 | 31.3 |
| 17.5° | 303.4 | 308.6 | 290.0 | 262.8 | 232.0 | 194.9 | 163.0 | 80.6 | 39.4 | 30.7 | 29.6 |
| 20° | 475.6 | 475.1 | 439.1 | 404.9 | 345.7 | 291.2 | 231.4 | 98.6 | 37.7 | 27.8 | 27.8 |
| 22.5° | 687.4 | 689.7 | 645.6 | 584.1 | 500.0 | 412.4 | 317.3 | 119.5 | 35.4 | 25.5 | 26.1 |
| 25° | 921.1 | 901.4 | 849.2 | 774.4 | 667.1 | 545.8 | 420.5 | 141.0 | 33.1 | 23.2 | 24.4 |
| 27.5° | 1116.0 | 1096.9 | 1037.1 | 948.4 | 832.9 | 689.1 | 525.5 | 162.4 | 30.2 | 20.9 | 22.6 |
| 30° | 1297.6 | 1273.2 | 1201.3 | 1100.9 | 963.5 | 808.0 | 624.1 | 180.4 | 26.7 | 18.0 | 20.9 |
| 32.5° | 1447.2 | 1425.2 | 1343.4 | 1226.8 | 1077.1 | 910.1 | 707.7 | 194.3 | 23.2 | 16.2 | 19.7 |
| 35° | 1548.1 | 1525.5 | 1450.1 | 1321.9 | 1158.9 | 984.3 | 775.5 | 200.1 | 20.3 | 14.5 | 19.1 |
| 37.5° | 1571.3 | 1559.2 | 1505.2 | 1385.1 | 1215.2 | 1031.9 | 819.0 | 198.4 | 16.8 | 13.3 | 18.0 |
| 40° | 1544.7 | 1547.6 | 1522.0 | 1422.3 | 1245.4 | 1052.2 | 837.0 | 189.1 | 13.9 | 12.2 | 17.4 |
| 42.5° | 1510.4 | 1518.0 | 1516.2 | 1437.4 | 1258.1 | 1053.4 | 829.5 | 170.5 | 11.0 | 11.0 | 16.8 |
| 45° | 1481.4 | 1489.0 | 1499.4 | 1431.0 | 1249.4 | 1038.3 | 805.7 | 145.6 | 8.1 | 10.4 | 16.8 |
| 47.5° | 1428.7 | 1436.8 | 1451.9 | 1379.9 | 1205.3 | 999.4 | 762.8 | 118.3 | 5.8 | 9.9 | 16.2 |
| 50° | 1344.5 | 1348.6 | 1344.5 | 1263.9 | 1120.6 | 936.8 | 693.2 | 92.2 | 4.1 | 9.3 | 16.2 |
| 52.5° | 1258.1 | 1250.0 | 1216.4 | 1114.3 | 986.1 | 837.6 | 605.6 | 65.5 | 2.9 | 8.7 | 15.7 |
| 55° | 1019.7 | 1007.0 | 982.0 | 919.4 | 846.3 | 715.8 | 489.6 | 36.5 | 2.9 | 8.7 | 15.1 |
| 57.5° | 710.6 | 717.5 | 726.2 | 713.5 | 679.8 | 563.8 | 371.8 | 16.2 | 2.9 | 8.1 | 15.1 |
| 60° | 597.4 | 591.6 | 592.2 | 584.1 | 528.4 | 411.3 | 255.8 | 6.4 | 2.9 | 7.5 | 14.5 |
| 62.5° | 356.7 | 360.8 | 368.3 | 370.1 | 315.0 | 229.7 | 134.0 | 2.9 | 2.9 | 7.0 | 13.9 |
| 65° | 134.0 | 140.4 | 123.0 | 106.7 | 84.7 | 62.1 | 31.3 | 2.3 | 3.5 | 6.4 | 12.8 |
| 67.5° | 4.1 | 4.6 | 5.8 | 5.2 | 5.2 | 4.6 | 3.5 | 2.3 | 3.5 | 5.8 | 12.2 |
| 70° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.3 | 2.3 | 2.3 | 2.9 | 5.2 | 11.0 |
| 72.5° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.9 | 4.6 | 9.9 |
| 75° | 1.7 | 2.3 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 2.9 | 4.1 | 8.1 |
| 77.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 2.3 | 3.5 | 7.0 |
| 80° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.7 | 2.3 | 2.9 | 5.8 |
| 82.5° | 1.2 | 1.2 | 1.2 | 0.6 | 1.2 | 1.2 | 1.2 | 1.2 | 2.3 | 2.3 | 4.6 |
| 85° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 | 1.7 | 2.3 | 2.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.2 | 1.7 | 1.7 | 1.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P1320000

CATALOG NUMBER: LDSQA3D09R459840DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0° | 40.6 | 40.6 | 40.6 |
| 2.5° | 38.3 | 38.3 | 38.3 |
| 5° | 37.1 | 37.1 | 37.1 |
| 7.5° | 36.0 | 36.0 | 36.0 |
| 10° | 34.8 | 34.8 | 34.8 |
| 12.5° | 33.6 | 33.6 | 34.2 |
| 15° | 31.9 | 33.1 | 33.1 |
| 17.5° | 30.7 | 31.9 | 32.5 |
| 20° | 29.6 | 30.7 | 31.3 |
| 22.5° | 27.8 | 29.6 | 30.7 |
| 25° | 26.7 | 29.0 | 29.6 |
| 27.5° | 25.5 | 28.4 | 29.6 |
| 30° | 24.9 | 27.8 | 29.0 |
| 32.5° | 23.8 | 27.3 | 28.4 |
| 35° | 23.2 | 27.3 | 28.4 |
| 37.5° | 23.2 | 26.7 | 28.4 |
| 40° | 22.6 | 26.7 | 28.4 |
| 42.5° | 22.6 | 26.7 | 28.4 |
| 45° | 22.6 | 26.7 | 28.4 |
| 47.5° | 22.0 | 26.7 | 29.0 |
| 50° | 22.0 | 27.3 | 29.0 |
| 52.5° | 22.0 | 27.3 | 29.0 |
| 55° | 22.0 | 27.3 | 28.4 |
| 57.5° | 21.5 | 26.7 | 28.4 |
| 60° | 21.5 | 26.7 | 28.4 |
| 62.5° | 20.3 | 26.1 | 27.8 |
| 65° | 19.7 | 25.5 | 27.3 |
| 67.5° | 18.6 | 24.9 | 26.1 |
| 70° | 17.4 | 23.2 | 24.9 |
| 72.5° | 15.7 | 22.0 | 23.8 |
| 75° | 13.9 | 20.3 | 21.5 |
| 77.5° | 12.2 | 18.0 | 19.1 |
| 80° | 9.9 | 15.1 | 16.2 |
| 82.5° | 7.5 | 11.6 | 12.2 |
| 85° | 5.2 | 7.5 | 8.1 |
| 87.5° | 2.3 | 3.5 | 4.1 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)