

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: P1317518

Luminaire Tested: LDSQA3D13R459827DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317518
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: LDSQA3D13R459827DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

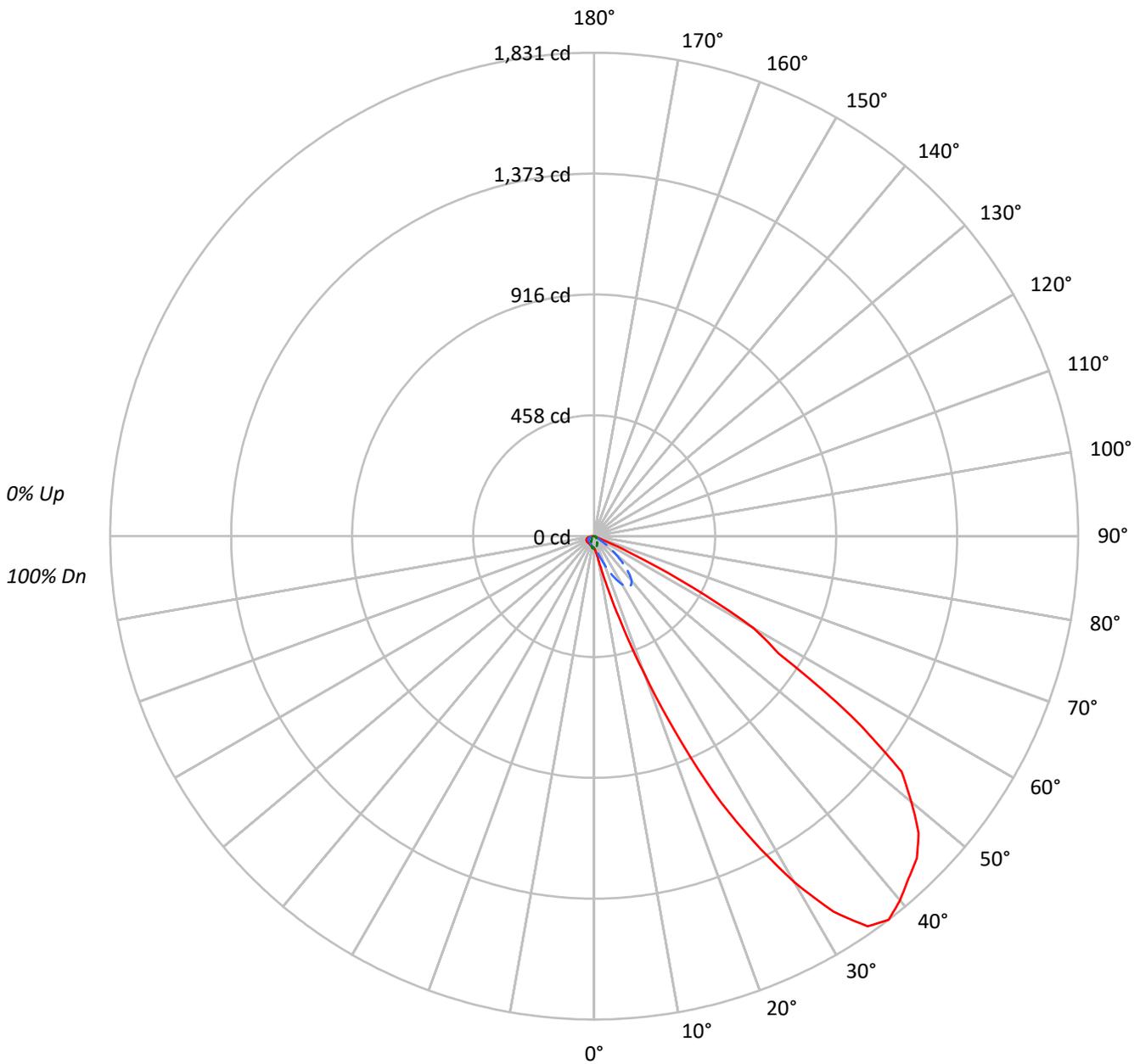
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 818.0 lumens
Efficiency: N/A
Efficacy: 56.4 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): 14.5
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

TEST NUMBER: P1317518
CATALOG NUMBER: LDSQA3D13R459827DE010 3LSQCA45R 1MB

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P1317518

CATALOG NUMBER: LDSQA3D13R459827DE010 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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| 1 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 88 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | | |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | | |
| 5 | 76 | 63 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | | |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 46 | 39 | 52 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | | |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 33 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | | |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 35 | 29 | 42 | 34 | 29 | 40 | 33 | 28 | 39 | 33 | 28 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | | |
| 9 | 53 | 39 | 31 | 25 | 52 | 39 | 30 | 25 | 38 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | | |
| 10 | 49 | 36 | 27 | 22 | 48 | 35 | 27 | 22 | 34 | 27 | 21 | 33 | 26 | 21 | 32 | 26 | 21 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|------|-------|-------|
| 0° | 8146 | 8146 | 8146 | 8146 | 8146 |
| 5° | 9699 | 8990 | 8056 | 7486 | 7486 |
| 10° | 15477 | 10528 | 7572 | 7100 | 7100 |
| 15° | 38566 | 14103 | 6864 | 6633 | 6864 |
| 20° | 101571 | 21058 | 5938 | 6323 | 6690 |
| 25° | 203956 | 31202 | 5131 | 5910 | 6556 |
| 30° | 300685 | 41802 | 4176 | 5787 | 6722 |
| 35° | 379282 | 49029 | 3553 | 5677 | 6959 |
| 40° | 404655 | 49528 | 3192 | 5935 | 7442 |
| 45° | 420433 | 41308 | 2971 | 6430 | 8062 |
| 50° | 419767 | 28803 | 2894 | 6886 | 9056 |
| 55° | 356770 | 12791 | 3033 | 7717 | 9939 |
| 60° | 239803 | 2549 | 3031 | 8611 | 11401 |
| 65° | 63613 | 1100 | 3016 | 9373 | 12959 |
| 70° | 1712 | 1360 | 3072 | 10222 | 14653 |
| 75° | 1331 | 1331 | 3127 | 10780 | 16635 |
| 80° | 1389 | 1984 | 3372 | 11406 | 18745 |
| 85° | 1383 | 2766 | 5335 | 12054 | 18772 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 431277 cd/sqm



TEST NUMBER: P1317518

CATALOG NUMBER: LDSQA3D13R459827DE010 3LSQCA45R 1MB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 4.7 | 0.6 |
| 10°-20° | 23.1 | 2.8 |
| 20°-30° | 95.2 | 11.6 |
| 30°-40° | 200.5 | 24.5 |
| 40°-50° | 247.4 | 30.2 |
| 50°-60° | 185.5 | 22.7 |
| 60°-70° | 47.7 | 5.8 |
| 70°-80° | 9.9 | 1.2 |
| 80°-90° | 4.0 | 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° | 122.9 | 15.0 |
| 0°-40° | 323.5 | 39.5 |
| 0°-60° | 756.4 | 92.5 |
| 0°-90° | 818.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 818.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 47 | 47 | 47 | 47 | 47 | |
| 5° | 56 | 52 | 47 | 43 | 43 | 6 |
| 15° | 216 | 79 | 38 | 37 | 38 | 79 |
| 25° | 1073 | 164 | 27 | 31 | 34 | 500 |
| 35° | 1804 | 233 | 17 | 27 | 33 | 1099 |
| 45° | 1726 | 170 | 12 | 26 | 33 | 1321 |
| 55° | 1188 | 43 | 10 | 26 | 33 | 1026 |
| 65° | 156 | 3 | 7 | 23 | 32 | 225 |
| 75° | 2 | 2 | 5 | 16 | 25 | 2 |
| 85° | 1 | 1 | 3 | 6 | 10 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1317518
 CATALOG NUMBER: LDSQA3D13R459827DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|--------|
| 0° | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 |
| 2.5° | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 49.3 | 48.7 | 47.3 | 46.0 |
| 5° | 56.1 | 55.4 | 55.4 | 55.4 | 54.7 | 54.1 | 54.1 | 52.0 | 49.3 | 46.6 | 44.6 |
| 7.5° | 66.2 | 66.2 | 65.6 | 64.2 | 63.5 | 62.2 | 60.8 | 55.4 | 49.3 | 45.3 | 42.6 |
| 10° | 88.5 | 87.2 | 85.2 | 83.8 | 80.4 | 75.7 | 72.3 | 60.2 | 48.7 | 43.3 | 41.2 |
| 12.5° | 132.5 | 135.2 | 128.4 | 121.7 | 112.2 | 103.4 | 92.6 | 68.3 | 48.7 | 41.2 | 39.2 |
| 15° | 216.3 | 221.0 | 208.2 | 194.7 | 171.7 | 150.0 | 129.8 | 79.1 | 47.3 | 38.5 | 36.5 |
| 17.5° | 353.5 | 359.6 | 337.9 | 306.2 | 270.4 | 227.1 | 189.9 | 93.9 | 46.0 | 35.8 | 34.5 |
| 20° | 554.2 | 553.6 | 511.7 | 471.8 | 402.8 | 339.3 | 269.7 | 114.9 | 43.9 | 32.4 | 32.4 |
| 22.5° | 800.9 | 803.6 | 752.3 | 680.6 | 582.6 | 480.6 | 369.7 | 139.2 | 41.2 | 29.7 | 30.4 |
| 25° | 1073.3 | 1050.3 | 989.5 | 902.3 | 777.3 | 636.0 | 490.0 | 164.2 | 38.5 | 27.0 | 28.4 |
| 27.5° | 1300.4 | 1278.1 | 1208.5 | 1105.1 | 970.6 | 803.0 | 612.4 | 189.3 | 35.1 | 24.3 | 26.4 |
| 30° | 1512.0 | 1483.6 | 1399.8 | 1282.8 | 1122.7 | 941.5 | 727.3 | 210.2 | 31.1 | 21.0 | 24.3 |
| 32.5° | 1686.4 | 1660.7 | 1565.4 | 1429.5 | 1255.1 | 1060.5 | 824.6 | 226.4 | 27.0 | 18.9 | 23.0 |
| 35° | 1804.0 | 1777.6 | 1689.7 | 1540.4 | 1350.4 | 1147.0 | 903.7 | 233.2 | 23.7 | 16.9 | 22.3 |
| 37.5° | 1831.0 | 1816.8 | 1753.9 | 1614.0 | 1416.0 | 1202.4 | 954.4 | 231.2 | 19.6 | 15.5 | 21.0 |
| 40° | 1799.9 | 1803.3 | 1773.5 | 1657.3 | 1451.1 | 1226.1 | 975.3 | 220.3 | 16.2 | 14.2 | 20.3 |
| 42.5° | 1760.0 | 1768.8 | 1766.8 | 1674.9 | 1466.0 | 1227.4 | 966.5 | 198.7 | 12.8 | 12.8 | 19.6 |
| 45° | 1726.2 | 1735.0 | 1747.2 | 1667.4 | 1455.9 | 1209.8 | 938.8 | 169.6 | 9.5 | 12.2 | 19.6 |
| 47.5° | 1664.7 | 1674.2 | 1691.8 | 1608.0 | 1404.5 | 1164.6 | 888.8 | 137.9 | 6.8 | 11.5 | 18.9 |
| 50° | 1566.7 | 1571.5 | 1566.7 | 1472.8 | 1305.8 | 1091.6 | 807.7 | 107.5 | 4.7 | 10.8 | 18.9 |
| 52.5° | 1466.0 | 1456.6 | 1417.3 | 1298.4 | 1149.0 | 976.0 | 705.6 | 76.4 | 3.4 | 10.1 | 18.2 |
| 55° | 1188.2 | 1173.4 | 1144.3 | 1071.3 | 986.1 | 834.1 | 570.5 | 42.6 | 3.4 | 10.1 | 17.6 |
| 57.5° | 828.0 | 836.1 | 846.2 | 831.3 | 792.1 | 657.0 | 433.2 | 18.9 | 3.4 | 9.5 | 17.6 |
| 60° | 696.2 | 689.4 | 690.1 | 680.6 | 615.7 | 479.2 | 298.1 | 7.4 | 3.4 | 8.8 | 16.9 |
| 62.5° | 415.7 | 420.4 | 429.2 | 431.2 | 367.0 | 267.7 | 156.1 | 3.4 | 3.4 | 8.1 | 16.2 |
| 65° | 156.1 | 163.6 | 143.3 | 124.4 | 98.7 | 72.3 | 36.5 | 2.7 | 4.1 | 7.4 | 14.9 |
| 67.5° | 4.7 | 5.4 | 6.8 | 6.1 | 6.1 | 5.4 | 4.1 | 2.7 | 4.1 | 6.8 | 14.2 |
| 70° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 2.7 | 2.7 | 2.7 | 3.4 | 6.1 | 12.8 |
| 72.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 3.4 | 5.4 | 11.5 |
| 75° | 2.0 | 2.7 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 3.4 | 4.7 | 9.5 |
| 77.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.7 | 4.1 | 8.1 |
| 80° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 2.0 | 2.7 | 3.4 | 6.8 |
| 82.5° | 1.4 | 1.4 | 1.4 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 2.7 | 2.7 | 5.4 |
| 85° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 2.0 | 2.7 | 3.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 1.4 | 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 |



TEST NUMBER: P1317518

CATALOG NUMBER: LDSQA3D13R459827DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0° | 47.3 | 47.3 | 47.3 |
| 2.5° | 44.6 | 44.6 | 44.6 |
| 5° | 43.3 | 43.3 | 43.3 |
| 7.5° | 41.9 | 41.9 | 41.9 |
| 10° | 40.6 | 40.6 | 40.6 |
| 12.5° | 39.2 | 39.2 | 39.9 |
| 15° | 37.2 | 38.5 | 38.5 |
| 17.5° | 35.8 | 37.2 | 37.9 |
| 20° | 34.5 | 35.8 | 36.5 |
| 22.5° | 32.4 | 34.5 | 35.8 |
| 25° | 31.1 | 33.8 | 34.5 |
| 27.5° | 29.7 | 33.1 | 34.5 |
| 30° | 29.1 | 32.4 | 33.8 |
| 32.5° | 27.7 | 31.8 | 33.1 |
| 35° | 27.0 | 31.8 | 33.1 |
| 37.5° | 27.0 | 31.1 | 33.1 |
| 40° | 26.4 | 31.1 | 33.1 |
| 42.5° | 26.4 | 31.1 | 33.1 |
| 45° | 26.4 | 31.1 | 33.1 |
| 47.5° | 25.7 | 31.1 | 33.8 |
| 50° | 25.7 | 31.8 | 33.8 |
| 52.5° | 25.7 | 31.8 | 33.8 |
| 55° | 25.7 | 31.8 | 33.1 |
| 57.5° | 25.0 | 31.1 | 33.1 |
| 60° | 25.0 | 31.1 | 33.1 |
| 62.5° | 23.7 | 30.4 | 32.4 |
| 65° | 23.0 | 29.7 | 31.8 |
| 67.5° | 21.6 | 29.1 | 30.4 |
| 70° | 20.3 | 27.0 | 29.1 |
| 72.5° | 18.2 | 25.7 | 27.7 |
| 75° | 16.2 | 23.7 | 25.0 |
| 77.5° | 14.2 | 21.0 | 22.3 |
| 80° | 11.5 | 17.6 | 18.9 |
| 82.5° | 8.8 | 13.5 | 14.2 |
| 85° | 6.1 | 8.8 | 9.5 |
| 87.5° | 2.7 | 4.1 | 4.7 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)