

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: P1311366

Luminaire Tested: LDSQA3D09R509040DE010 3LSQCDR1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-39)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R509040DE010 3LSQCDR1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , 3LSQCDR1MW TRIM
Light Source: -
Ballast/Driver: -

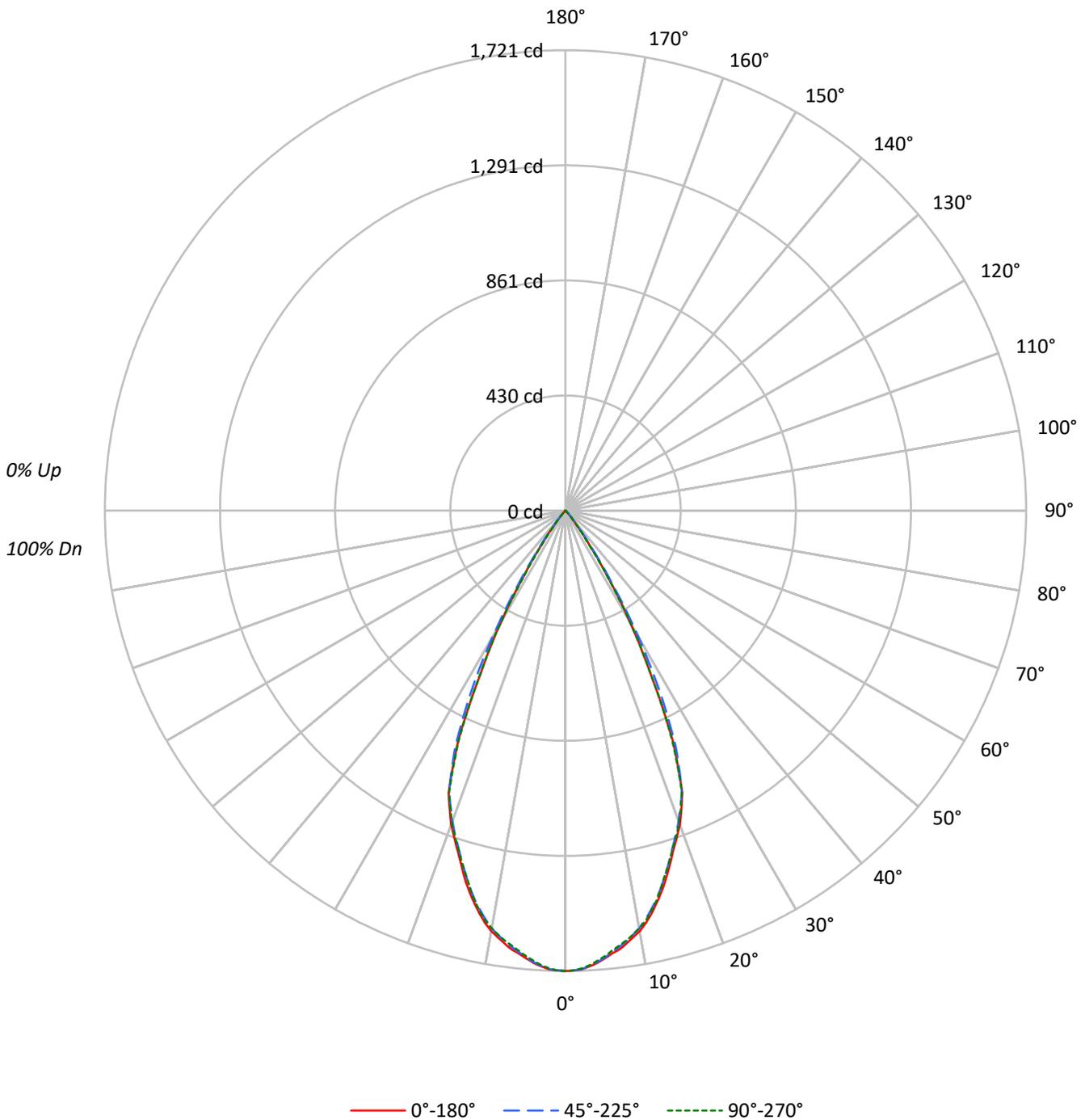
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1109.1 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78
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 (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





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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 | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 100 | 99 | 98 | 97 | 96 | 96 | 96 | 96 | 95 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | 97 | 95 | 93 | 94 | 93 | 91 | 91 | 91 | 91 | 90 |
| 3 | 105 | 99 | 94 | 91 | 103 | 98 | 93 | 90 | 95 | 92 | 89 | 93 | 90 | 87 | 90 | 88 | 86 | 86 | 86 | 86 | 85 |
| 4 | 100 | 93 | 89 | 85 | 98 | 92 | 88 | 84 | 90 | 86 | 83 | 88 | 85 | 82 | 87 | 84 | 81 | 81 | 81 | 81 | 80 |
| 5 | 96 | 88 | 83 | 79 | 94 | 88 | 83 | 79 | 86 | 82 | 78 | 84 | 81 | 78 | 83 | 80 | 77 | 77 | 77 | 77 | 76 |
| 6 | 92 | 84 | 79 | 75 | 90 | 83 | 78 | 75 | 82 | 77 | 74 | 80 | 77 | 74 | 79 | 76 | 73 | 73 | 73 | 73 | 72 |
| 7 | 88 | 80 | 74 | 71 | 87 | 79 | 74 | 70 | 78 | 73 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 69 | 69 | 69 | 68 |
| 8 | 84 | 76 | 71 | 67 | 83 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 66 | 72 | 69 | 66 | 66 | 66 | 66 | 65 |
| 9 | 81 | 72 | 67 | 64 | 80 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 66 | 63 | 63 | 63 | 63 | 62 |
| 10 | 78 | 69 | 64 | 60 | 77 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 66 | 63 | 60 | 60 | 60 | 60 | 59 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 296378 | 296378 | 296378 |
| 5° | 290560 | 290024 | 289195 |
| 10° | 279195 | 277271 | 277394 |
| 15° | 256303 | 253914 | 253629 |
| 20° | 228966 | 226510 | 227665 |
| 25° | 179955 | 185200 | 178473 |
| 30° | 96271 | 107865 | 96589 |
| 35° | 31453 | 36751 | 29624 |
| 40° | 7779 | 9735 | 7442 |
| 45° | 950 | 3459 | 950 |
| 50° | 643 | 1045 | 643 |
| 55° | 721 | 721 | 721 |
| 60° | 551 | 551 | 551 |
| 65° | 652 | 652 | 652 |
| 70° | 403 | 403 | 403 |
| 75° | 532 | 532 | 532 |
| 80° | 793 | 793 | 793 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 3459 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 157.4 | 14.2 |
| 10°-20° | 398.0 | 35.9 |
| 20°-30° | 418.6 | 37.7 |
| 30°-40° | 120.6 | 10.9 |
| 40°-50° | 9.8 | 0.9 |
| 50°-60° | 2.1 | 0.2 |
| 60°-70° | 1.5 | 0.1 |
| 70°-80° | 0.8 | 0.1 |
| 80°-90° | 0.2 | 0.0 |
| 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° | 973.9 | 87.8 |
| 0°-40° | 1094.5 | 98.7 |
| 0°-60° | 1106.5 | 99.8 |
| 0°-90° | 1109.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1109.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1721 | 1721 | 1721 | 1721 | 1721 | |
| 5° | 1681 | 1680 | 1678 | 1679 | 1673 | 158 |
| 15° | 1438 | 1428 | 1424 | 1424 | 1422 | 400 |
| 25° | 947 | 971 | 975 | 964 | 939 | 410 |
| 35° | 150 | 155 | 175 | 150 | 141 | 116 |
| 45° | 4 | 8 | 14 | 8 | 4 | 7 |
| 55° | 2 | 2 | 2 | 2 | 2 | 2 |
| 65° | 2 | 2 | 2 | 2 | 2 | 1 |
| 75° | 1 | 1 | 1 | 1 | 1 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1311366

CATALOG NUMBER: LDSQA3D09R509040DE010 3LSQCDR1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1720.9 | 1720.9 | 1720.9 | 1720.9 | 1720.9 |
| 1° | 1720.1 | 1721.7 | 1718.5 | 1724.0 | 1719.3 |
| 2° | 1716.1 | 1716.9 | 1715.4 | 1719.3 | 1713.0 |
| 3° | 1706.7 | 1708.3 | 1705.1 | 1708.3 | 1702.8 |
| 4° | 1695.7 | 1695.7 | 1692.5 | 1694.9 | 1687.8 |
| 5° | 1680.7 | 1679.9 | 1677.6 | 1679.1 | 1672.8 |
| 6° | 1665.0 | 1664.2 | 1660.2 | 1660.2 | 1655.5 |
| 7° | 1653.2 | 1647.7 | 1644.5 | 1643.7 | 1639.0 |
| 8° | 1634.3 | 1632.7 | 1626.4 | 1626.4 | 1623.2 |
| 9° | 1615.4 | 1613.8 | 1606.7 | 1608.3 | 1605.9 |
| 10° | 1596.5 | 1591.0 | 1585.5 | 1586.2 | 1586.2 |
| 11° | 1571.3 | 1566.6 | 1558.7 | 1561.8 | 1563.4 |
| 12° | 1541.4 | 1535.9 | 1528.8 | 1535.1 | 1534.3 |
| 13° | 1508.3 | 1503.6 | 1498.1 | 1502.8 | 1501.2 |
| 14° | 1473.7 | 1466.6 | 1461.9 | 1465.0 | 1463.4 |
| 15° | 1437.5 | 1428.0 | 1424.1 | 1424.1 | 1422.5 |
| 17.5° | 1335.9 | 1330.4 | 1326.5 | 1324.1 | 1329.6 |
| 20° | 1249.3 | 1244.6 | 1235.9 | 1238.3 | 1242.2 |
| 22.5° | 1140.7 | 1139.9 | 1135.2 | 1131.2 | 1136.0 |
| 25° | 947.0 | 970.6 | 974.6 | 963.6 | 939.2 |
| 27.5° | 688.0 | 743.1 | 762.8 | 736.8 | 692.0 |
| 30° | 484.1 | 510.1 | 542.4 | 491.2 | 485.7 |
| 32.5° | 292.1 | 299.1 | 329.1 | 293.6 | 285.8 |
| 35° | 149.6 | 155.1 | 174.8 | 149.6 | 140.9 |
| 37.5° | 70.1 | 73.2 | 81.1 | 70.1 | 65.3 |
| 40° | 34.6 | 38.6 | 43.3 | 36.2 | 33.1 |
| 42.5° | 15.0 | 19.7 | 25.2 | 18.9 | 13.4 |
| 45° | 3.9 | 7.9 | 14.2 | 7.9 | 3.9 |
| 47.5° | 2.4 | 3.1 | 7.9 | 3.1 | 2.4 |
| 50° | 2.4 | 2.4 | 3.9 | 2.4 | 2.4 |
| 52.5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 55° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 57.5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 60° | 1.6 | 2.4 | 1.6 | 2.4 | 1.6 |
| 62.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 65° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 67.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 70° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 72.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 75° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 77.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 80° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 82.5° | 0.0 | 0.8 | 0.0 | 0.8 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-----|-----|-------|-----|-------|-----|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)