

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: P1317436

Luminaire Tested: LDSQA3D13R159827DE010 3LSQPHRL1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R159827DE010 3LSQPHRL1MB
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , 3LSQPHRL1MB TRIM
Light Source: -
Ballast/Driver: -

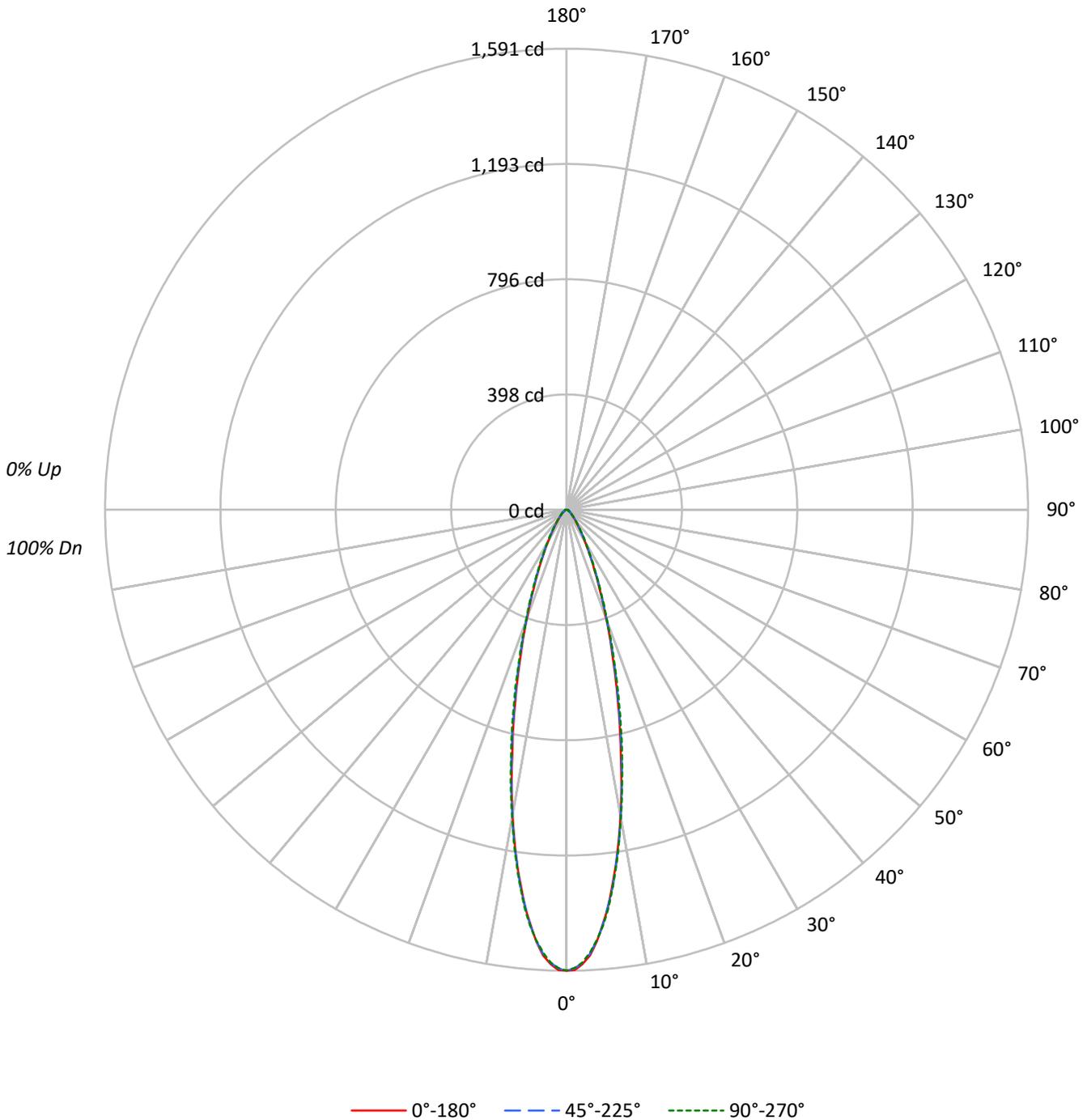
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 526.1 lumens
Efficiency: N/A
Efficacy: 36.3 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.46 / 0.48
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 (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





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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 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 96 | 96 | 96 | 94 |
| 2 | 109 | 104 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 90 | 90 | 90 | 90 | 89 |
| 3 | 104 | 98 | 94 | 90 | 102 | 97 | 93 | 89 | 94 | 91 | 88 | 92 | 89 | 87 | 90 | 87 | 85 | 85 | 85 | 85 | 84 |
| 4 | 100 | 93 | 88 | 84 | 98 | 92 | 87 | 84 | 90 | 86 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 81 | 81 | 81 | 80 |
| 5 | 96 | 88 | 83 | 79 | 94 | 87 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 78 | 83 | 79 | 77 | 77 | 77 | 77 | 76 |
| 6 | 92 | 84 | 79 | 75 | 91 | 83 | 78 | 75 | 82 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 | 73 | 73 | 73 | 72 |
| 7 | 88 | 80 | 75 | 71 | 87 | 80 | 75 | 71 | 79 | 74 | 71 | 77 | 74 | 71 | 76 | 73 | 70 | 70 | 70 | 70 | 69 |
| 8 | 85 | 77 | 72 | 68 | 84 | 76 | 72 | 68 | 75 | 71 | 68 | 74 | 70 | 68 | 74 | 70 | 67 | 67 | 67 | 67 | 66 |
| 9 | 82 | 74 | 69 | 65 | 81 | 73 | 69 | 65 | 73 | 68 | 65 | 72 | 68 | 65 | 71 | 67 | 65 | 65 | 65 | 65 | 64 |
| 10 | 79 | 71 | 66 | 63 | 78 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 65 | 62 | 69 | 65 | 62 | 62 | 62 | 62 | 61 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 273937 | 273937 | 273937 |
| 5° | 248118 | 248585 | 248948 |
| 10° | 187331 | 187803 | 188747 |
| 15° | 121510 | 122829 | 125237 |
| 20° | 73164 | 74025 | 75015 |
| 25° | 42737 | 43630 | 44276 |
| 30° | 25117 | 25932 | 26330 |
| 35° | 15474 | 16042 | 16336 |
| 40° | 10184 | 10477 | 10634 |
| 45° | 7063 | 7234 | 7404 |
| 50° | 5251 | 5439 | 5600 |
| 55° | 4264 | 4474 | 4474 |
| 60° | 3720 | 3720 | 3720 |
| 65° | 3301 | 3301 | 3301 |
| 70° | 2719 | 3072 | 3072 |
| 75° | 2728 | 2728 | 2728 |
| 80° | 1984 | 2678 | 2678 |
| 85° | 1383 | 1383 | 1383 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 7404 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 125.3 | 23.8 |
| 10°-20° | 191.6 | 36.4 |
| 20°-30° | 108.9 | 20.7 |
| 30°-40° | 49.7 | 9.4 |
| 40°-50° | 23.8 | 4.5 |
| 50°-60° | 13.3 | 2.5 |
| 60°-70° | 8.2 | 1.6 |
| 70°-80° | 4.4 | 0.8 |
| 80°-90° | 0.9 | 0.2 |
| 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° | 425.7 | 80.9 |
| 0°-40° | 475.4 | 90.4 |
| 0°-60° | 512.6 | 97.4 |
| 0°-90° | 526.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 526.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1591 | 1591 | 1591 | 1591 | 1591 | |
| 5° | 1435 | 1435 | 1438 | 1438 | 1440 | 125 |
| 15° | 682 | 685 | 689 | 698 | 702 | 189 |
| 25° | 225 | 225 | 230 | 232 | 233 | 107 |
| 35° | 74 | 75 | 76 | 78 | 78 | 48 |
| 45° | 29 | 29 | 30 | 30 | 30 | 23 |
| 55° | 14 | 14 | 15 | 15 | 15 | 13 |
| 65° | 8 | 8 | 8 | 8 | 8 | 8 |
| 75° | 4 | 4 | 4 | 4 | 4 | 4 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1590.6 | 1590.6 | 1590.6 | 1590.6 | 1590.6 |
| 1° | 1589.2 | 1585.2 | 1583.8 | 1583.2 | 1581.8 |
| 2° | 1569.0 | 1565.6 | 1564.9 | 1564.9 | 1564.2 |
| 3° | 1540.6 | 1534.5 | 1535.2 | 1533.2 | 1531.2 |
| 4° | 1492.7 | 1490.0 | 1491.3 | 1492.7 | 1490.0 |
| 5° | 1435.2 | 1434.6 | 1437.9 | 1437.9 | 1440.0 |
| 6° | 1375.8 | 1375.1 | 1373.1 | 1378.5 | 1381.2 |
| 7° | 1300.2 | 1304.2 | 1309.6 | 1306.9 | 1308.9 |
| 8° | 1231.3 | 1226.5 | 1228.6 | 1235.3 | 1236.0 |
| 9° | 1150.2 | 1146.8 | 1155.6 | 1158.3 | 1159.0 |
| 10° | 1071.2 | 1074.6 | 1073.9 | 1083.4 | 1079.3 |
| 12.5° | 865.2 | 870.6 | 876.7 | 880.7 | 884.8 |
| 15° | 681.5 | 684.9 | 688.9 | 698.4 | 702.4 |
| 17.5° | 524.1 | 528.2 | 532.2 | 540.3 | 541.7 |
| 20° | 399.2 | 401.2 | 403.9 | 411.3 | 409.3 |
| 22.5° | 298.5 | 301.9 | 304.6 | 308.0 | 310.0 |
| 25° | 224.9 | 224.9 | 229.6 | 231.7 | 233.0 |
| 27.5° | 167.5 | 168.9 | 172.2 | 174.9 | 174.3 |
| 30° | 126.3 | 128.3 | 130.4 | 131.7 | 132.4 |
| 32.5° | 97.3 | 97.3 | 99.3 | 101.3 | 102.0 |
| 35° | 73.6 | 75.0 | 76.3 | 77.7 | 77.7 |
| 37.5° | 57.4 | 58.1 | 59.4 | 60.1 | 60.1 |
| 40° | 45.3 | 45.3 | 46.6 | 47.3 | 47.3 |
| 42.5° | 35.8 | 36.5 | 37.1 | 37.8 | 37.8 |
| 45° | 29.0 | 29.0 | 29.7 | 30.4 | 30.4 |
| 47.5° | 23.6 | 23.6 | 24.3 | 25.0 | 25.0 |
| 50° | 19.6 | 20.3 | 20.3 | 20.9 | 20.9 |
| 52.5° | 16.9 | 16.9 | 16.9 | 17.6 | 17.6 |
| 55° | 14.2 | 14.2 | 14.9 | 14.9 | 14.9 |
| 57.5° | 12.2 | 12.2 | 12.2 | 12.8 | 12.8 |
| 60° | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 |
| 62.5° | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| 65° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 67.5° | 6.8 | 6.8 | 6.8 | 7.4 | 7.4 |
| 70° | 5.4 | 6.1 | 6.1 | 6.1 | 6.1 |
| 72.5° | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| 75° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 77.5° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 80° | 2.0 | 2.7 | 2.7 | 2.7 | 2.7 |
| 82.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 85° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)