

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: P1311524

Luminaire Tested: LDSQA3D13R459040DE010 3LSQCDR1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-32)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R459040DE010 3LSQCDR1MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , 3LSQCDR1MMS TRIM
Light Source: -
Ballast/Driver: -

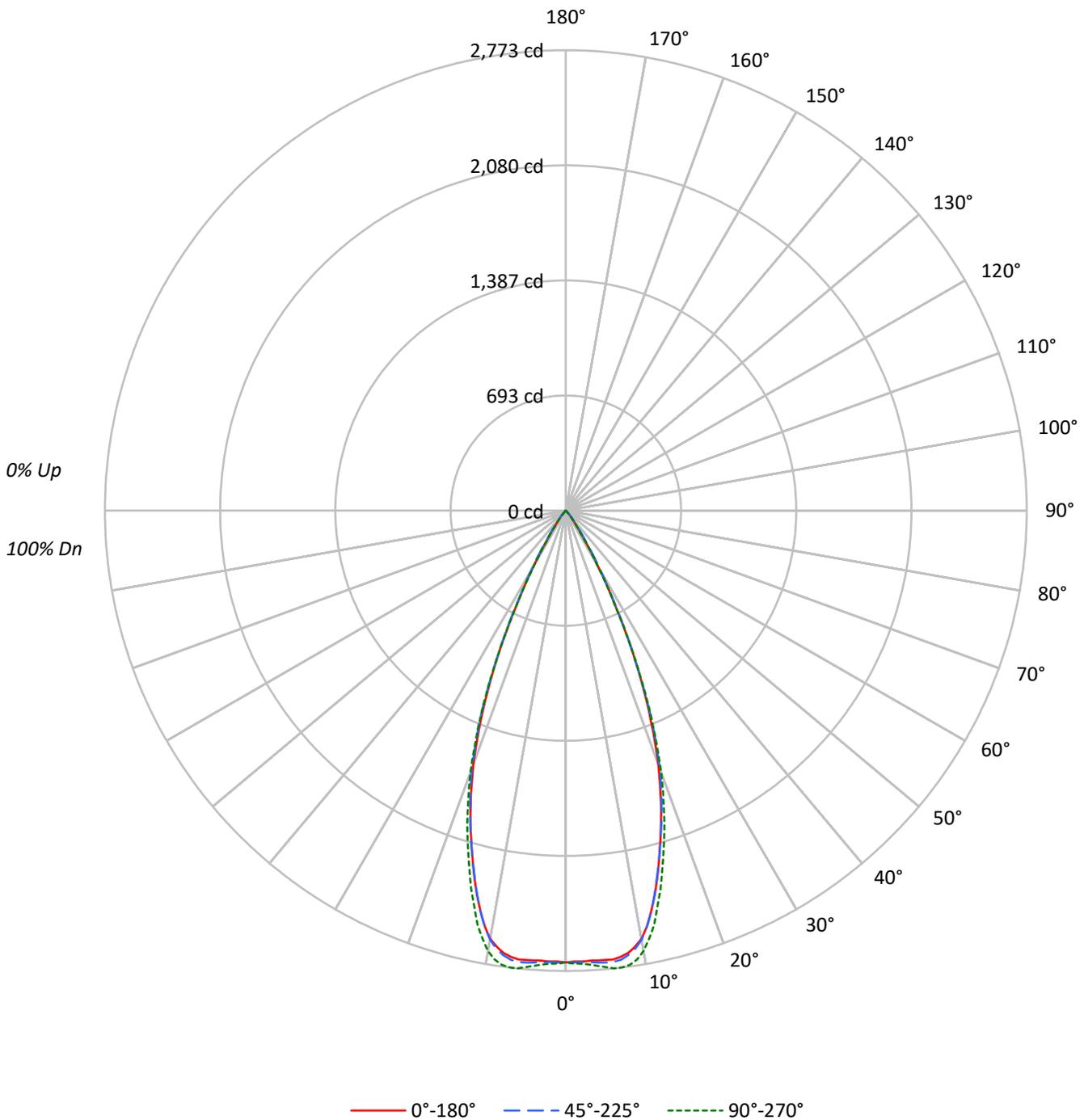
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1407.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 0.72 / 0.74 / 0.67
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 97 | 97 | 97 | 95 |
| 2 | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 99 | 101 | 99 | 96 | 98 | 96 | 94 | 95 | 94 | 92 | 92 | 92 | 92 | 91 |
| 3 | 106 | 100 | 96 | 93 | 104 | 99 | 95 | 92 | 97 | 93 | 91 | 94 | 92 | 89 | 92 | 90 | 88 | 92 | 90 | 88 | 87 |
| 4 | 102 | 95 | 91 | 87 | 100 | 94 | 90 | 87 | 92 | 89 | 86 | 90 | 87 | 85 | 89 | 86 | 84 | 89 | 86 | 84 | 83 |
| 5 | 98 | 91 | 86 | 83 | 96 | 90 | 86 | 82 | 88 | 85 | 82 | 87 | 83 | 81 | 85 | 82 | 80 | 85 | 82 | 80 | 79 |
| 6 | 94 | 87 | 82 | 78 | 93 | 86 | 81 | 78 | 85 | 81 | 78 | 83 | 80 | 77 | 82 | 79 | 77 | 82 | 79 | 77 | 75 |
| 7 | 91 | 83 | 78 | 75 | 89 | 82 | 78 | 74 | 81 | 77 | 74 | 80 | 76 | 74 | 79 | 76 | 73 | 79 | 76 | 73 | 72 |
| 8 | 87 | 79 | 75 | 71 | 86 | 79 | 74 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 76 | 73 | 70 | 76 | 73 | 70 | 69 |
| 9 | 84 | 76 | 71 | 68 | 83 | 76 | 71 | 68 | 75 | 71 | 68 | 74 | 70 | 68 | 73 | 70 | 67 | 73 | 70 | 67 | 66 |
| 10 | 81 | 73 | 68 | 65 | 80 | 73 | 68 | 65 | 72 | 68 | 65 | 71 | 67 | 65 | 71 | 67 | 65 | 71 | 67 | 65 | 64 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 468687 | 468687 | 468687 |
| 5° | 469751 | 472465 | 477167 |
| 10° | 457992 | 458901 | 470968 |
| 15° | 386390 | 386568 | 399245 |
| 20° | 298263 | 302478 | 307463 |
| 25° | 185029 | 185238 | 186416 |
| 30° | 76325 | 81117 | 75092 |
| 35° | 23758 | 29035 | 22875 |
| 40° | 7284 | 10117 | 6812 |
| 45° | 511 | 3824 | 511 |
| 50° | 0 | 563 | 0 |
| 55° | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 3824 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 259.0 | 18.4 |
| 10°-20° | 602.2 | 42.8 |
| 20°-30° | 441.8 | 31.4 |
| 30°-40° | 94.9 | 6.7 |
| 40°-50° | 9.0 | 0.6 |
| 50°-60° | 0.1 | 0.0 |
| 60°-70° | 0.0 | 0.0 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 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° | 1303.0 | 92.6 |
| 0°-40° | 1397.9 | 99.4 |
| 0°-60° | 1407.0 | 100.0 |
| 0°-90° | 1407.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1407.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2721 | 2721 | 2721 | 2721 | 2721 | |
| 5° | 2717 | 2724 | 2733 | 2752 | 2760 | 257 |
| 15° | 2167 | 2163 | 2168 | 2203 | 2239 | 597 |
| 25° | 974 | 971 | 975 | 975 | 981 | 437 |
| 35° | 113 | 121 | 138 | 118 | 109 | 89 |
| 45° | 2 | 6 | 16 | 6 | 2 | 5 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P1311524
 CATALOG NUMBER: LDSQA3D13R459040DE010 3LSQCDR1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2721.4 | 2721.4 | 2721.4 | 2721.4 | 2721.4 |
| 1° | 2716.2 | 2722.4 | 2722.4 | 2726.6 | 2728.7 |
| 2° | 2718.2 | 2722.4 | 2721.4 | 2728.7 | 2731.8 |
| 3° | 2715.1 | 2722.4 | 2724.5 | 2732.9 | 2738.1 |
| 4° | 2716.2 | 2722.4 | 2728.7 | 2741.3 | 2748.6 |
| 5° | 2717.2 | 2724.5 | 2732.9 | 2751.7 | 2760.1 |
| 6° | 2718.2 | 2723.5 | 2732.9 | 2756.9 | 2772.6 |
| 7° | 2707.8 | 2715.1 | 2725.6 | 2755.9 | 2772.6 |
| 8° | 2691.1 | 2695.2 | 2703.6 | 2743.3 | 2763.2 |
| 9° | 2659.7 | 2658.6 | 2671.2 | 2715.1 | 2738.1 |
| 10° | 2618.9 | 2606.3 | 2624.1 | 2668.0 | 2693.1 |
| 11° | 2553.0 | 2539.4 | 2555.1 | 2602.2 | 2626.2 |
| 12° | 2467.2 | 2467.2 | 2470.4 | 2512.2 | 2554.0 |
| 13° | 2376.2 | 2365.8 | 2372.1 | 2419.1 | 2448.4 |
| 14° | 2275.8 | 2265.4 | 2271.7 | 2307.2 | 2353.2 |
| 15° | 2167.1 | 2162.9 | 2168.1 | 2202.6 | 2239.2 |
| 17.5° | 1908.7 | 1899.3 | 1918.1 | 1952.7 | 1971.5 |
| 20° | 1627.4 | 1643.1 | 1650.4 | 1672.4 | 1677.6 |
| 22.5° | 1304.2 | 1320.9 | 1331.4 | 1334.5 | 1337.7 |
| 25° | 973.7 | 970.6 | 974.8 | 974.8 | 981.0 |
| 27.5° | 640.1 | 640.1 | 651.6 | 644.3 | 636.9 |
| 30° | 383.8 | 399.5 | 407.9 | 394.3 | 377.6 |
| 32.5° | 209.2 | 224.9 | 238.5 | 218.6 | 203.9 |
| 35° | 113.0 | 121.3 | 138.1 | 118.2 | 108.8 |
| 37.5° | 61.7 | 69.0 | 79.5 | 66.9 | 61.7 |
| 40° | 32.4 | 39.7 | 45.0 | 39.7 | 30.3 |
| 42.5° | 10.5 | 19.9 | 26.1 | 19.9 | 9.4 |
| 45° | 2.1 | 6.3 | 15.7 | 6.3 | 2.1 |
| 47.5° | 0.0 | 1.0 | 7.3 | 1.0 | 0.0 |
| 50° | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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)