

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: P1311348

Luminaire Tested: LDSQA3D09R409040DE010 3LSQCDR1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-38)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R409040DE010 3LSQCDR1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , 3LSQCDR1MW TRIM
Light Source: -
Ballast/Driver: -

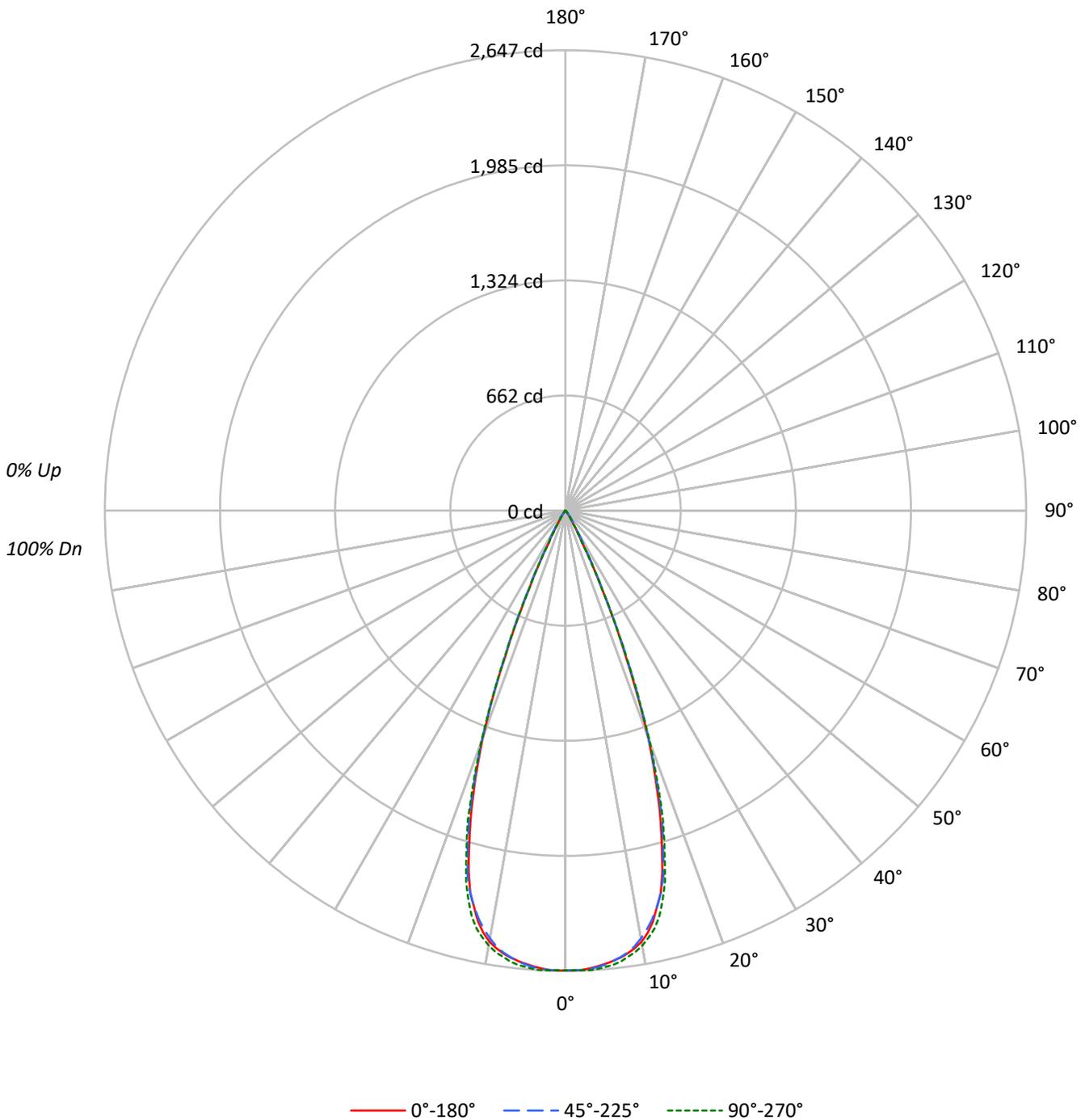
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1119.1 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.6
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





TEST NUMBER: P1311348

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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 | 115 | 112 | 110 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 98 | 98 | 98 | 98 | 98 | 96 |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 96 | 95 | 94 | 94 | 94 | 94 | 92 |
| 3 | 107 | 102 | 98 | 95 | 105 | 100 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 93 | 91 | 90 | 90 | 90 | 90 | 88 |
| 4 | 103 | 97 | 93 | 90 | 101 | 96 | 92 | 89 | 94 | 91 | 88 | 92 | 89 | 87 | 91 | 88 | 86 | 86 | 86 | 86 | 85 |
| 5 | 99 | 93 | 89 | 85 | 98 | 92 | 88 | 85 | 91 | 87 | 84 | 89 | 86 | 84 | 88 | 85 | 83 | 83 | 83 | 83 | 82 |
| 6 | 96 | 89 | 85 | 82 | 95 | 89 | 84 | 81 | 87 | 84 | 81 | 86 | 83 | 80 | 85 | 82 | 80 | 80 | 80 | 80 | 79 |
| 7 | 93 | 86 | 81 | 78 | 92 | 85 | 81 | 78 | 84 | 80 | 78 | 83 | 80 | 77 | 82 | 79 | 77 | 77 | 77 | 77 | 76 |
| 8 | 90 | 83 | 78 | 75 | 89 | 82 | 78 | 75 | 81 | 77 | 75 | 80 | 77 | 74 | 80 | 76 | 74 | 74 | 74 | 74 | 73 |
| 9 | 87 | 80 | 75 | 72 | 86 | 79 | 75 | 72 | 79 | 75 | 72 | 78 | 74 | 72 | 77 | 74 | 72 | 72 | 72 | 72 | 71 |
| 10 | 84 | 77 | 73 | 70 | 84 | 77 | 73 | 70 | 76 | 72 | 69 | 75 | 72 | 69 | 75 | 71 | 69 | 69 | 69 | 69 | 68 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 455357 | 455357 | 455357 |
| 5° | 452325 | 453016 | 455454 |
| 10° | 440084 | 436779 | 444071 |
| 15° | 383448 | 387370 | 393415 |
| 20° | 255413 | 256714 | 259152 |
| 25° | 92866 | 95697 | 93303 |
| 30° | 19708 | 26449 | 19708 |
| 35° | 6938 | 11753 | 6623 |
| 40° | 2473 | 3710 | 2473 |
| 45° | 585 | 1534 | 585 |
| 50° | 429 | 643 | 429 |
| 55° | 480 | 480 | 480 |
| 60° | 551 | 551 | 551 |
| 65° | 326 | 652 | 326 |
| 70° | 403 | 403 | 403 |
| 75° | 532 | 532 | 532 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1534 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 247.1 | 22.1 |
| 10°-20° | 575.7 | 51.4 |
| 20°-30° | 259.1 | 23.2 |
| 30°-40° | 29.5 | 2.6 |
| 40°-50° | 4.2 | 0.4 |
| 50°-60° | 1.5 | 0.1 |
| 60°-70° | 1.2 | 0.1 |
| 70°-80° | 0.7 | 0.1 |
| 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° | 1081.9 | 96.7 |
| 0°-40° | 1111.4 | 99.3 |
| 0°-60° | 1117.1 | 99.8 |
| 0°-90° | 1119.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1119.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2644 | 2644 | 2644 | 2644 | 2644 | |
| 5° | 2616 | 2613 | 2620 | 2632 | 2634 | 247 |
| 15° | 2151 | 2156 | 2173 | 2190 | 2206 | 571 |
| 25° | 489 | 492 | 504 | 504 | 491 | 253 |
| 35° | 33 | 37 | 56 | 35 | 32 | 25 |
| 45° | 2 | 4 | 6 | 4 | 2 | 3 |
| 55° | 2 | 2 | 2 | 2 | 2 | 1 |
| 65° | 1 | 2 | 2 | 2 | 1 | 1 |
| 75° | 1 | 1 | 1 | 1 | 1 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P1311348

CATALOG NUMBER: LDSQA3D09R409040DE010 3LSQCDR1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2644.0 | 2644.0 | 2644.0 | 2644.0 | 2644.0 |
| 1° | 2645.5 | 2643.2 | 2642.4 | 2647.1 | 2643.2 |
| 2° | 2643.2 | 2641.6 | 2642.4 | 2647.1 | 2644.0 |
| 3° | 2636.1 | 2636.9 | 2639.2 | 2647.9 | 2647.1 |
| 4° | 2627.4 | 2626.7 | 2631.4 | 2642.4 | 2642.4 |
| 5° | 2616.4 | 2613.3 | 2620.4 | 2632.2 | 2634.5 |
| 6° | 2603.8 | 2599.9 | 2605.4 | 2620.4 | 2625.9 |
| 7° | 2589.7 | 2581.8 | 2586.5 | 2604.6 | 2611.7 |
| 8° | 2570.8 | 2560.6 | 2566.1 | 2584.2 | 2589.7 |
| 9° | 2547.2 | 2531.4 | 2536.2 | 2558.2 | 2569.2 |
| 10° | 2516.5 | 2496.8 | 2497.6 | 2522.0 | 2539.3 |
| 11° | 2473.2 | 2451.2 | 2452.0 | 2482.7 | 2500.8 |
| 12° | 2415.8 | 2396.1 | 2400.0 | 2428.4 | 2457.5 |
| 13° | 2337.9 | 2332.4 | 2337.1 | 2367.8 | 2394.5 |
| 14° | 2262.3 | 2256.8 | 2265.5 | 2293.8 | 2306.4 |
| 15° | 2150.6 | 2156.1 | 2172.6 | 2189.9 | 2206.5 |
| 17.5° | 1796.5 | 1817.7 | 1837.4 | 1849.2 | 1863.4 |
| 20° | 1393.6 | 1369.2 | 1400.7 | 1386.5 | 1414.0 |
| 22.5° | 899.4 | 917.5 | 925.4 | 917.5 | 920.7 |
| 25° | 488.7 | 491.8 | 503.6 | 503.6 | 491.0 |
| 27.5° | 207.7 | 224.3 | 239.2 | 233.7 | 207.7 |
| 30° | 99.1 | 114.1 | 133.0 | 114.9 | 99.1 |
| 32.5° | 55.9 | 66.1 | 85.8 | 64.5 | 54.3 |
| 35° | 33.0 | 37.0 | 55.9 | 35.4 | 31.5 |
| 37.5° | 19.7 | 20.5 | 30.7 | 21.2 | 18.9 |
| 40° | 11.0 | 13.4 | 16.5 | 13.4 | 11.0 |
| 42.5° | 5.5 | 7.9 | 10.2 | 7.9 | 5.5 |
| 45° | 2.4 | 3.9 | 6.3 | 3.9 | 2.4 |
| 47.5° | 2.4 | 2.4 | 3.9 | 2.4 | 2.4 |
| 50° | 1.6 | 1.6 | 2.4 | 1.6 | 1.6 |
| 52.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 55° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 57.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 60° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 62.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 65° | 0.8 | 1.6 | 1.6 | 1.6 | 0.8 |
| 67.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 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° | 0.0 | 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)