

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: P1312775

Luminaire Tested: LDSQA3D17R559050DE010 3LSQCDR1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312775  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R559050DE010 3LSQCDR1MB  
Description: 3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , 3LSQCDR1MB TRIM  
Light Source: -  
Ballast/Driver: -

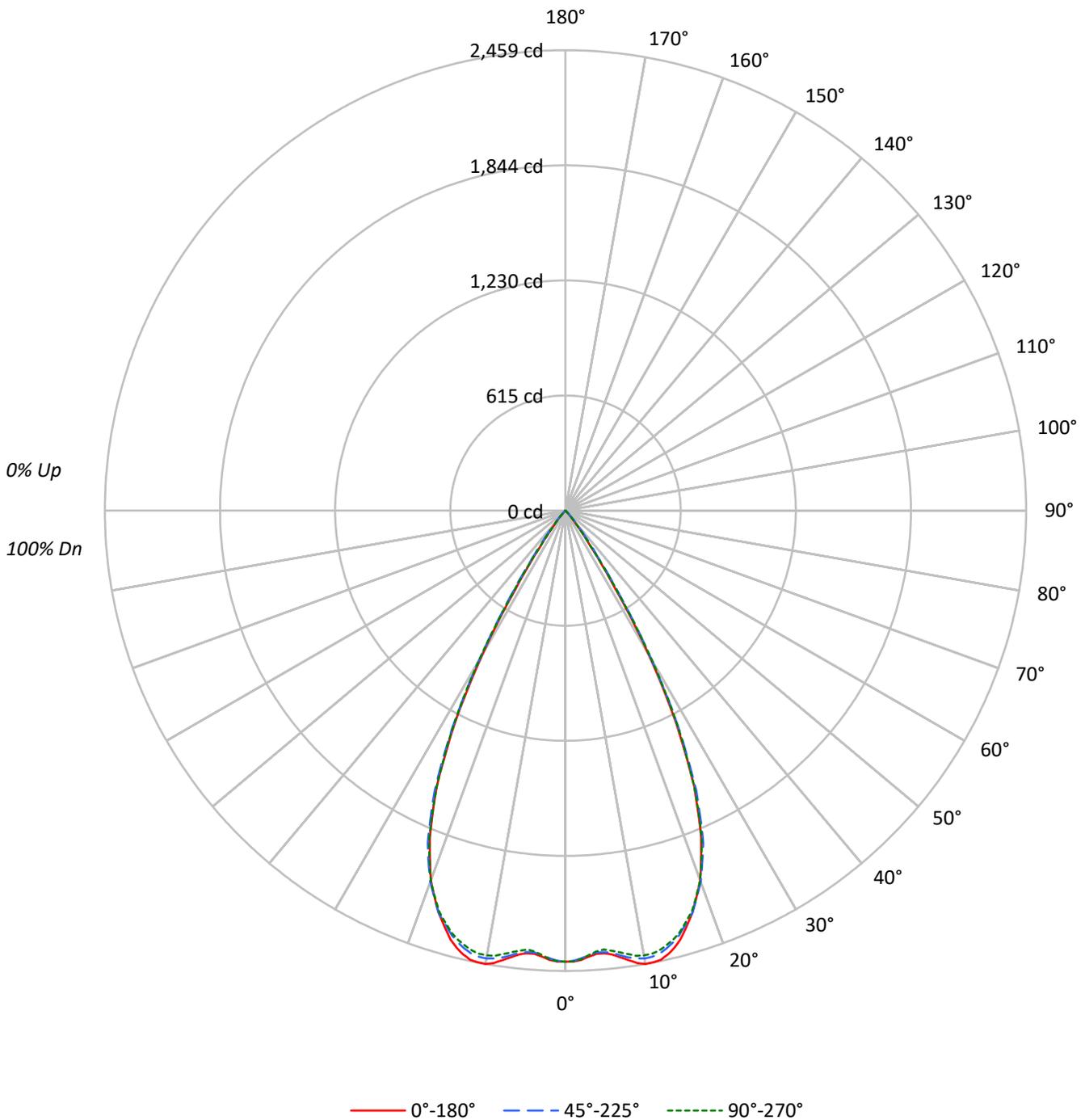
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1832.0 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.81  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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 | 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  | 89  |
| 3   | 104 | 99  | 94  | 91  | 103 | 97  | 93  | 90  | 95  | 91  | 89  | 92  | 90  | 87  | 90  | 88  | 86  | 86  | 86  | 86  | 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  | 82  | 79  | 85  | 81  | 78  | 84  | 80  | 77  | 82  | 79  | 77  | 77  | 77  | 77  | 75  |
| 6   | 91  | 83  | 78  | 74  | 90  | 83  | 78  | 74  | 81  | 77  | 74  | 80  | 76  | 73  | 79  | 75  | 73  | 73  | 73  | 73  | 71  |
| 7   | 87  | 79  | 74  | 70  | 86  | 79  | 73  | 70  | 77  | 73  | 69  | 76  | 72  | 69  | 75  | 72  | 69  | 69  | 69  | 69  | 67  |
| 8   | 84  | 75  | 70  | 66  | 83  | 75  | 70  | 66  | 74  | 69  | 66  | 73  | 69  | 65  | 72  | 68  | 65  | 65  | 65  | 65  | 64  |
| 9   | 80  | 72  | 66  | 63  | 79  | 71  | 66  | 63  | 70  | 66  | 62  | 69  | 65  | 62  | 69  | 65  | 62  | 62  | 62  | 62  | 61  |
| 10  | 77  | 68  | 63  | 59  | 76  | 68  | 63  | 59  | 67  | 62  | 59  | 66  | 62  | 59  | 66  | 62  | 59  | 59  | 59  | 59  | 58  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 415005 | 415005 | 415005 |
| 5°  | 410263 | 409053 | 406857 |
| 10° | 430011 | 424852 | 421897 |
| 15° | 422869 | 418358 | 416861 |
| 20° | 385172 | 386730 | 385428 |
| 25° | 309021 | 313829 | 309021 |
| 30° | 177368 | 181843 | 183235 |
| 35° | 50564  | 60929  | 52057  |
| 40° | 12972  | 18660  | 13287  |
| 45° | 1364   | 6503   | 1023   |
| 50° | 0      | 1125   | 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: 6503 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 228.8  | 12.5      |
| 10°-20°   | 652.9  | 35.6      |
| 20°-30°   | 719.1  | 39.3      |
| 30°-40°   | 214.7  | 11.7      |
| 40°-50°   | 16.5   | 0.9       |
| 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°    | 1600.7 | 87.4      |
| 0°-40°    | 1815.4 | 99.1      |
| 0°-60°    | 1832.0 | 100.0     |
| 0°-90°    | 1832.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1832.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2410 | 2410  | 2410 | 2410  | 2410 |      |
| 5°  | 2373 | 2369  | 2366 | 2356  | 2353 | 230  |
| 15° | 2372 | 2355  | 2346 | 2337  | 2338 | 657  |
| 25° | 1626 | 1626  | 1652 | 1649  | 1626 | 712  |
| 35° | 240  | 256   | 290  | 264   | 248  | 199  |
| 45° | 6    | 14    | 27   | 14    | 4    | 11   |
| 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    |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2409.7 | 2409.7 | 2409.7 | 2409.7 | 2409.7 |
| 1°    | 2408.3 | 2408.3 | 2405.5 | 2404.1 | 2408.3 |
| 2°    | 2401.3 | 2401.3 | 2394.2 | 2392.8 | 2397.1 |
| 3°    | 2385.8 | 2384.4 | 2378.8 | 2374.5 | 2377.4 |
| 4°    | 2373.1 | 2370.3 | 2366.1 | 2359.1 | 2360.5 |
| 5°    | 2373.1 | 2368.9 | 2366.1 | 2356.3 | 2353.4 |
| 6°    | 2384.4 | 2381.6 | 2376.0 | 2366.1 | 2363.3 |
| 7°    | 2404.1 | 2398.5 | 2392.8 | 2380.2 | 2377.4 |
| 8°    | 2425.2 | 2421.0 | 2409.7 | 2397.1 | 2391.4 |
| 9°    | 2446.3 | 2436.4 | 2422.4 | 2409.7 | 2408.3 |
| 10°   | 2458.9 | 2444.9 | 2429.4 | 2413.9 | 2412.5 |
| 11°   | 2457.5 | 2444.9 | 2426.6 | 2412.5 | 2411.1 |
| 12°   | 2451.9 | 2433.6 | 2418.2 | 2401.3 | 2402.7 |
| 13°   | 2432.2 | 2415.3 | 2399.9 | 2387.2 | 2384.4 |
| 14°   | 2405.5 | 2390.0 | 2376.0 | 2363.3 | 2364.7 |
| 15°   | 2371.7 | 2354.9 | 2346.4 | 2336.6 | 2338.0 |
| 17.5° | 2252.2 | 2247.9 | 2252.2 | 2240.9 | 2245.1 |
| 20°   | 2101.6 | 2097.4 | 2110.1 | 2104.5 | 2103.0 |
| 22.5° | 1892.0 | 1897.7 | 1921.6 | 1914.5 | 1901.9 |
| 25°   | 1626.2 | 1626.2 | 1651.5 | 1648.7 | 1626.2 |
| 27.5° | 1280.1 | 1290.0 | 1305.4 | 1312.5 | 1295.6 |
| 30°   | 891.9  | 914.4  | 914.4  | 928.4  | 921.4  |
| 32.5° | 498.0  | 545.8  | 557.1  | 564.1  | 536.0  |
| 35°   | 240.5  | 256.0  | 289.8  | 264.5  | 247.6  |
| 37.5° | 115.4  | 122.4  | 156.1  | 126.6  | 118.2  |
| 40°   | 57.7   | 66.1   | 83.0   | 68.9   | 59.1   |
| 42.5° | 23.9   | 35.2   | 43.6   | 35.2   | 23.9   |
| 45°   | 5.6    | 14.1   | 26.7   | 14.1   | 4.2    |
| 47.5° | 0.0    | 1.4    | 12.7   | 2.8    | 0.0    |
| 50°   | 0.0    | 0.0    | 4.2    | 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)