

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: P1310582

Luminaire Tested: LDSQA3D17R559035DE010 3LSQCDR1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310582  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-40)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R559035DE010 3LSQCDR1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 90CRI , 3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

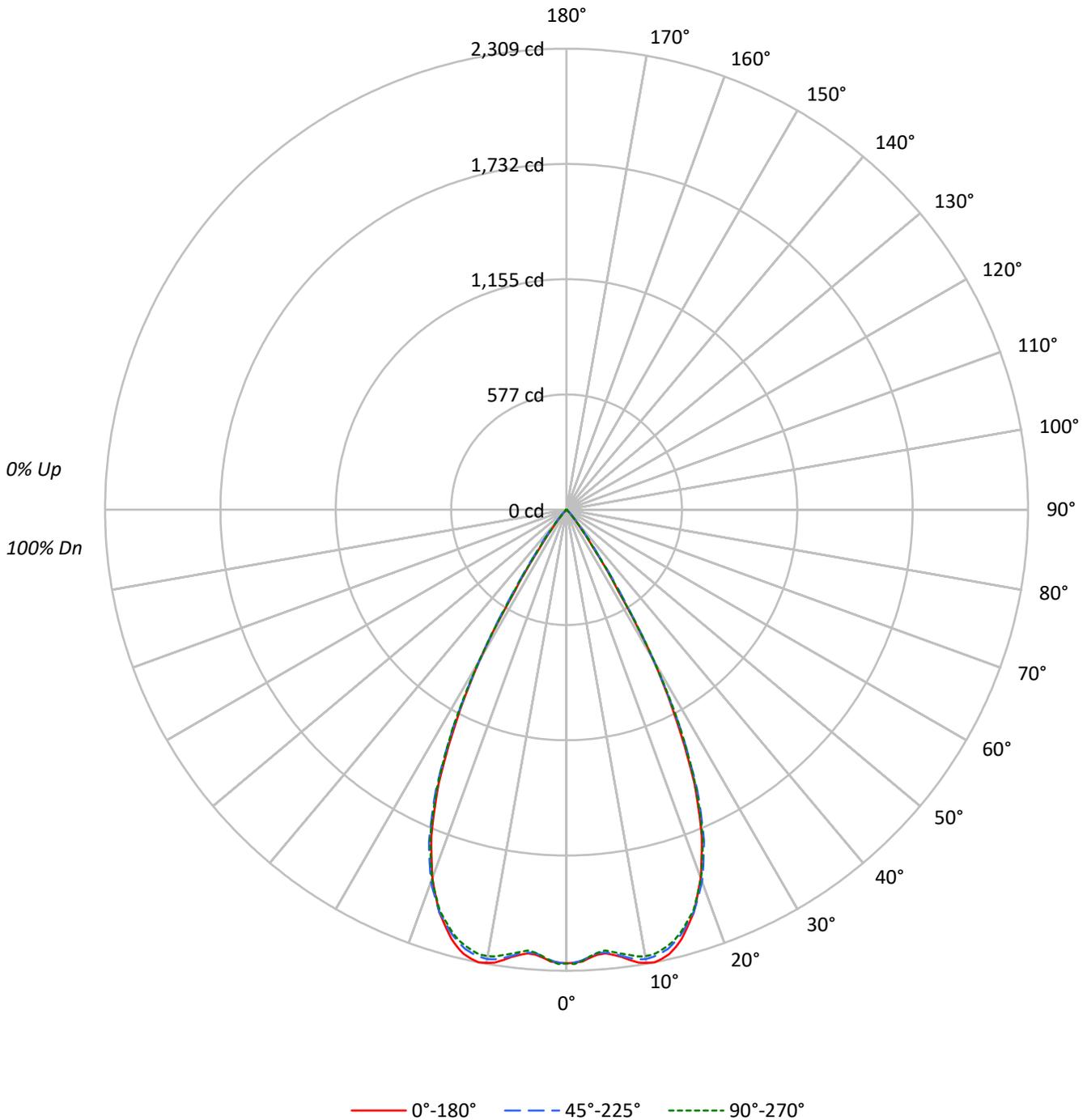
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1742.0 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.82  
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 (A<sub>in</sub>): 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 | 112 | 109 | 107 | 105 | 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  | 92  | 91  | 91  | 91  | 91  | 89  |
| 3   | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 90  | 94  | 91  | 88  | 92  | 89  | 87  | 90  | 88  | 86  | 86  | 86  | 86  | 84  |
| 4   | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 84  | 90  | 86  | 83  | 88  | 84  | 82  | 86  | 83  | 81  | 81  | 81  | 81  | 79  |
| 5   | 95  | 88  | 82  | 79  | 94  | 87  | 82  | 78  | 85  | 81  | 78  | 83  | 80  | 77  | 82  | 79  | 76  | 76  | 76  | 76  | 75  |
| 6   | 91  | 83  | 78  | 74  | 90  | 82  | 77  | 74  | 81  | 76  | 73  | 79  | 76  | 73  | 78  | 75  | 72  | 72  | 72  | 72  | 71  |
| 7   | 87  | 79  | 73  | 70  | 86  | 78  | 73  | 69  | 77  | 72  | 69  | 76  | 72  | 69  | 75  | 71  | 68  | 68  | 68  | 68  | 67  |
| 8   | 83  | 75  | 69  | 66  | 82  | 74  | 69  | 66  | 73  | 69  | 65  | 72  | 68  | 65  | 71  | 68  | 65  | 65  | 65  | 65  | 63  |
| 9   | 80  | 71  | 66  | 62  | 79  | 71  | 66  | 62  | 70  | 65  | 62  | 69  | 65  | 62  | 68  | 64  | 61  | 61  | 61  | 61  | 60  |
| 10  | 77  | 68  | 62  | 59  | 76  | 67  | 62  | 59  | 67  | 62  | 59  | 66  | 62  | 59  | 65  | 61  | 58  | 58  | 58  | 58  | 57  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 391221 | 391221 | 391221 |
| 5°  | 385627 | 384936 | 383103 |
| 10° | 403045 | 399582 | 397029 |
| 15° | 396767 | 393218 | 391560 |
| 20° | 359770 | 363417 | 360741 |
| 25° | 287700 | 293743 | 290969 |
| 30° | 172536 | 172536 | 174644 |
| 35° | 49849  | 59037  | 51510  |
| 40° | 14299  | 19357  | 14299  |
| 45° | 3215   | 7429   | 3215   |
| 50° | 1420   | 2492   | 1072   |
| 55° | 1201   | 1201   | 1201   |
| 60° | 1378   | 1378   | 1378   |
| 65° | 1060   | 1060   | 1060   |
| 70° | 1309   | 1309   | 1309   |
| 75° | 865    | 865    | 865    |
| 80° | 1289   | 1289   | 1289   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 7429 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 215.4  | 12.4      |
| 10°-20°   | 613.9  | 35.2      |
| 20°-30°   | 676.4  | 38.8      |
| 30°-40°   | 206.9  | 11.9      |
| 40°-50°   | 20.5   | 1.2       |
| 50°-60°   | 3.8    | 0.2       |
| 60°-70°   | 3.0    | 0.2       |
| 70°-80°   | 1.6    | 0.1       |
| 80°-90°   | 0.5    | 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°    | 1505.6 | 86.4      |
| 0°-40°    | 1712.5 | 98.3      |
| 0°-60°    | 1736.8 | 99.7      |
| 0°-90°    | 1742.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1742.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2272 | 2272  | 2272 | 2272  | 2272 |      |
| 5°  | 2231 | 2231  | 2227 | 2220  | 2216 | 216  |
| 15° | 2225 | 2221  | 2205 | 2196  | 2196 | 617  |
| 25° | 1514 | 1528  | 1546 | 1560  | 1531 | 667  |
| 35° | 237  | 249   | 281  | 258   | 245  | 194  |
| 45° | 13   | 20    | 30   | 20    | 13   | 16   |
| 55° | 4    | 4     | 4    | 4     | 4    | 4    |
| 65° | 3    | 3     | 3    | 3     | 3    | 3    |
| 75° | 1    | 1     | 1    | 1     | 1    | 2    |
| 85° | 0    | 0     | 0    | 0     | 0    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2271.6 | 2271.6 | 2271.6 | 2271.6 | 2271.6 |
| 1°    | 2269.0 | 2270.3 | 2269.0 | 2266.3 | 2275.6 |
| 2°    | 2263.7 | 2262.3 | 2258.4 | 2257.0 | 2261.0 |
| 3°    | 2246.4 | 2246.4 | 2241.1 | 2238.5 | 2239.8 |
| 4°    | 2233.2 | 2233.2 | 2225.3 | 2222.6 | 2223.9 |
| 5°    | 2230.6 | 2230.6 | 2226.6 | 2220.0 | 2216.0 |
| 6°    | 2241.1 | 2243.8 | 2234.5 | 2227.9 | 2227.9 |
| 7°    | 2257.0 | 2258.4 | 2251.7 | 2242.5 | 2239.8 |
| 8°    | 2276.9 | 2278.2 | 2267.6 | 2257.0 | 2251.7 |
| 9°    | 2296.8 | 2294.1 | 2279.6 | 2269.0 | 2265.0 |
| 10°   | 2304.7 | 2303.4 | 2284.9 | 2274.3 | 2270.3 |
| 11°   | 2308.7 | 2302.1 | 2280.9 | 2271.6 | 2270.3 |
| 12°   | 2299.4 | 2294.1 | 2271.6 | 2262.3 | 2258.4 |
| 13°   | 2283.5 | 2275.6 | 2257.0 | 2247.8 | 2242.5 |
| 14°   | 2258.4 | 2250.4 | 2233.2 | 2222.6 | 2223.9 |
| 15°   | 2225.3 | 2221.3 | 2205.4 | 2196.1 | 2196.1 |
| 17.5° | 2115.3 | 2118.0 | 2114.0 | 2110.0 | 2107.4 |
| 20°   | 1963.0 | 1973.6 | 1982.9 | 1977.6 | 1968.3 |
| 22.5° | 1768.3 | 1786.8 | 1797.4 | 1800.1 | 1782.9 |
| 25°   | 1514.0 | 1528.5 | 1545.8 | 1560.3 | 1531.2 |
| 27.5° | 1197.4 | 1210.6 | 1226.5 | 1235.8 | 1231.8 |
| 30°   | 867.6  | 868.9  | 867.6  | 884.8  | 878.2  |
| 32.5° | 482.1  | 521.9  | 528.5  | 540.4  | 498.0  |
| 35°   | 237.1  | 249.0  | 280.8  | 258.3  | 245.0  |
| 37.5° | 113.9  | 121.9  | 152.3  | 124.5  | 119.2  |
| 40°   | 63.6   | 68.9   | 86.1   | 71.5   | 63.6   |
| 42.5° | 30.5   | 39.7   | 46.4   | 41.1   | 30.5   |
| 45°   | 13.2   | 19.9   | 30.5   | 19.9   | 13.2   |
| 47.5° | 5.3    | 7.9    | 18.5   | 7.9    | 5.3    |
| 50°   | 5.3    | 4.0    | 9.3    | 4.0    | 4.0    |
| 52.5° | 4.0    | 4.0    | 5.3    | 4.0    | 4.0    |
| 55°   | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 57.5° | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 60°   | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 62.5° | 2.6    | 4.0    | 4.0    | 4.0    | 2.6    |
| 65°   | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 67.5° | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 70°   | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 72.5° | 1.3    | 2.6    | 1.3    | 1.3    | 1.3    |
| 75°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 77.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 80°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 82.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 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)