

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: P1313543

Luminaire Tested: LDSQA3D09R409727DE010 3LSQCDR1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313543  
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: LDSQA3D09R409727DE010 3LSQCDR1MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , 3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

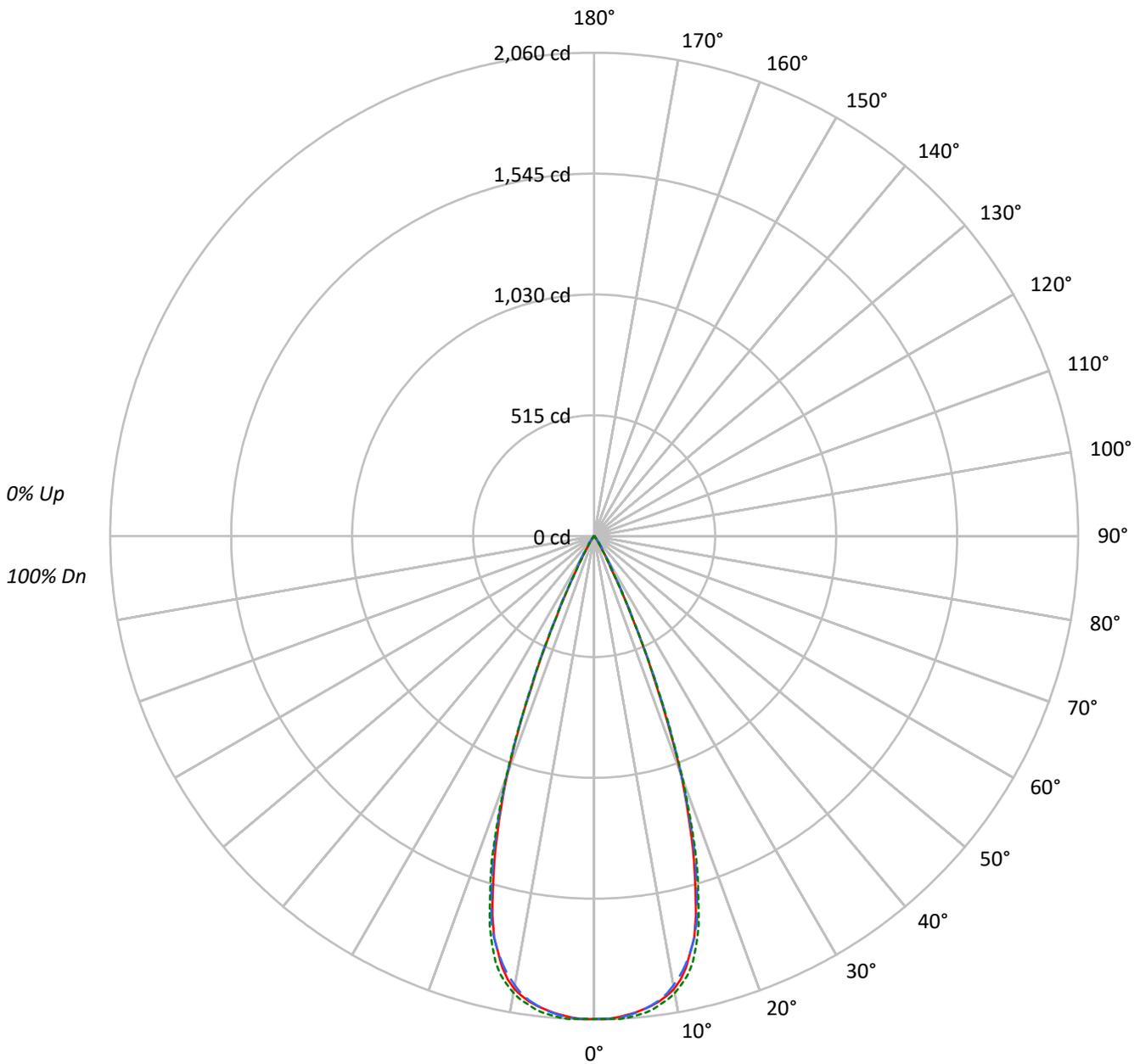
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 870.9 lumens  
Efficiency: N/A  
Efficacy: 78.5 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<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



— 0°-180°    - - 45°-225°    - - - 90°-270°



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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 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  | 96  |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 96  | 95  | 94  | 94  | 94  | 92  |
| 3   | 107 | 102 | 98  | 95  | 105 | 100 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 93  | 91  | 90  | 90  | 90  | 88  |
| 4   | 103 | 97  | 93  | 90  | 101 | 96  | 92  | 89  | 94  | 91  | 88  | 92  | 89  | 87  | 91  | 88  | 86  | 86  | 86  | 85  |
| 5   | 99  | 93  | 89  | 85  | 98  | 92  | 88  | 85  | 91  | 87  | 84  | 89  | 86  | 84  | 88  | 85  | 83  | 83  | 83  | 82  |
| 6   | 96  | 89  | 85  | 82  | 95  | 89  | 84  | 81  | 87  | 84  | 81  | 86  | 83  | 80  | 85  | 82  | 80  | 80  | 80  | 79  |
| 7   | 93  | 86  | 81  | 78  | 92  | 85  | 81  | 78  | 84  | 80  | 78  | 83  | 80  | 77  | 82  | 79  | 77  | 77  | 77  | 76  |
| 8   | 90  | 83  | 78  | 75  | 89  | 82  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 74  | 80  | 76  | 74  | 74  | 74  | 73  |
| 9   | 87  | 80  | 75  | 72  | 86  | 79  | 75  | 72  | 79  | 75  | 72  | 78  | 74  | 72  | 77  | 74  | 72  | 72  | 72  | 71  |
| 10  | 84  | 77  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  | 75  | 72  | 69  | 75  | 71  | 69  | 69  | 69  | 68  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 354434 | 354434 | 354434 |
| 5°  | 352088 | 352607 | 354509 |
| 10° | 342554 | 339983 | 345649 |
| 15° | 298471 | 301520 | 306209 |
| 20° | 198799 | 199807 | 201731 |
| 25° | 72286  | 74490  | 72628  |
| 30° | 15352  | 20583  | 15352  |
| 35° | 5403   | 9146   | 5151   |
| 40° | 1933   | 2900   | 1933   |
| 45° | 438    | 1193   | 438    |
| 50° | 322    | 482    | 322    |
| 55° | 360    | 360    | 360    |
| 60° | 413    | 413    | 413    |
| 65° | 245    | 489    | 245    |
| 70° | 302    | 302    | 302    |
| 75° | 399    | 399    | 399    |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1193 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 192.3  | 22.1      |
| 10°-20°   | 448.1  | 51.5      |
| 20°-30°   | 201.7  | 23.2      |
| 30°-40°   | 23.0   | 2.6       |
| 40°-50°   | 3.3    | 0.4       |
| 50°-60°   | 1.1    | 0.1       |
| 60°-70°   | 0.9    | 0.1       |
| 70°-80°   | 0.6    | 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°    | 842.1  | 96.7      |
| 0°-40°    | 865.1  | 99.3      |
| 0°-60°    | 869.5  | 99.8      |
| 0°-90°    | 870.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 870.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2058 | 2058  | 2058 | 2058  | 2058 |      |
| 5°  | 2037 | 2034  | 2040 | 2049  | 2051 | 192  |
| 15° | 1674 | 1678  | 1691 | 1705  | 1717 | 445  |
| 25° | 380  | 383   | 392  | 392   | 382  | 197  |
| 35° | 26   | 29    | 44   | 28    | 24   | 19   |
| 45° | 2    | 3     | 5    | 3     | 2    | 2    |
| 55° | 1    | 1     | 1    | 1     | 1    | 1    |
| 65° | 1    | 1     | 1    | 1     | 1    | 1    |
| 75° | 1    | 1     | 1    | 1     | 1    | 1    |
| 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°    | 2058.0 | 2058.0 | 2058.0 | 2058.0 | 2058.0 |
| 1°    | 2059.2 | 2057.4 | 2056.8 | 2060.4 | 2057.4 |
| 2°    | 2057.4 | 2056.2 | 2056.8 | 2060.4 | 2058.0 |
| 3°    | 2051.9 | 2052.5 | 2054.3 | 2061.1 | 2060.4 |
| 4°    | 2045.1 | 2044.5 | 2048.2 | 2056.8 | 2056.8 |
| 5°    | 2036.6 | 2034.1 | 2039.6 | 2048.8 | 2050.6 |
| 6°    | 2026.8 | 2023.7 | 2028.0 | 2039.6 | 2043.9 |
| 7°    | 2015.7 | 2009.6 | 2013.3 | 2027.4 | 2032.9 |
| 8°    | 2001.0 | 1993.1 | 1997.4 | 2011.4 | 2015.7 |
| 9°    | 1982.7 | 1970.4 | 1974.1 | 1991.2 | 1999.8 |
| 10°   | 1958.8 | 1943.5 | 1944.1 | 1963.1 | 1976.5 |
| 11°   | 1925.1 | 1907.9 | 1908.5 | 1932.4 | 1946.5 |
| 12°   | 1880.4 | 1865.1 | 1868.1 | 1890.2 | 1912.8 |
| 13°   | 1819.7 | 1815.4 | 1819.1 | 1843.0 | 1863.8 |
| 14°   | 1760.9 | 1756.6 | 1763.4 | 1785.4 | 1795.2 |
| 15°   | 1674.0 | 1678.2 | 1691.1 | 1704.6 | 1717.4 |
| 17.5° | 1398.3 | 1414.9 | 1430.2 | 1439.4 | 1450.4 |
| 20°   | 1084.7 | 1065.7 | 1090.2 | 1079.2 | 1100.7 |
| 22.5° | 700.1  | 714.2  | 720.3  | 714.2  | 716.6  |
| 25°   | 380.4  | 382.8  | 392.0  | 392.0  | 382.2  |
| 27.5° | 161.7  | 174.6  | 186.2  | 181.9  | 161.7  |
| 30°   | 77.2   | 88.8   | 103.5  | 89.4   | 77.2   |
| 32.5° | 43.5   | 51.4   | 66.8   | 50.2   | 42.3   |
| 35°   | 25.7   | 28.8   | 43.5   | 27.6   | 24.5   |
| 37.5° | 15.3   | 15.9   | 23.9   | 16.5   | 14.7   |
| 40°   | 8.6    | 10.4   | 12.9   | 10.4   | 8.6    |
| 42.5° | 4.3    | 6.1    | 8.0    | 6.1    | 4.3    |
| 45°   | 1.8    | 3.1    | 4.9    | 3.1    | 1.8    |
| 47.5° | 1.8    | 1.8    | 3.1    | 1.8    | 1.8    |
| 50°   | 1.2    | 1.2    | 1.8    | 1.2    | 1.2    |
| 52.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 55°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 57.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 60°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 62.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 65°   | 0.6    | 1.2    | 1.2    | 1.2    | 0.6    |
| 67.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 70°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 72.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 75°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 77.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 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)