

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: P1318399

Luminaire Tested: LDSQA3D13R459830DE010 3LSQCDR1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-44)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R459830DE010 3LSQCDR1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , 3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

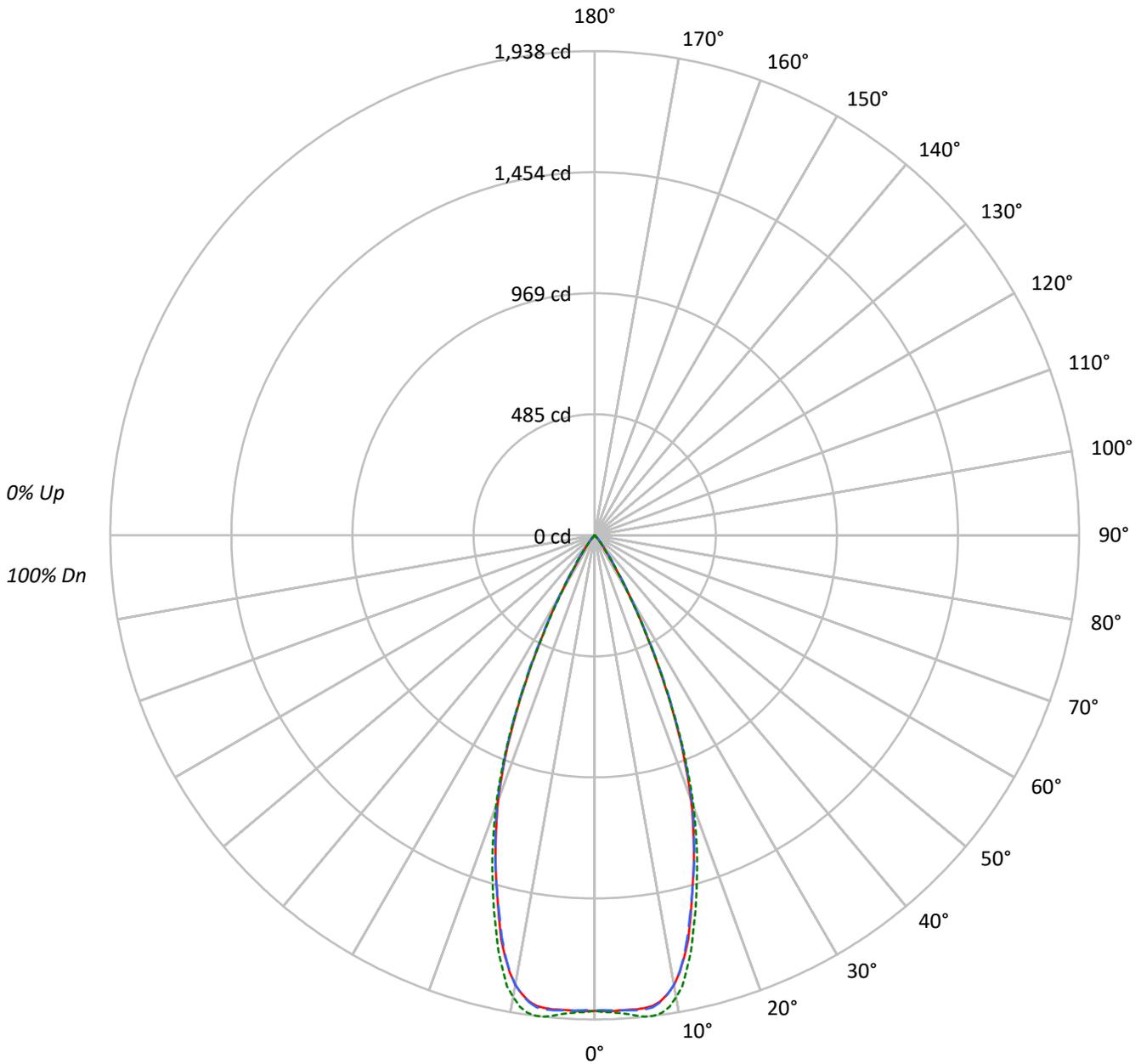
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 985.0 lumens  
Efficiency: N/A  
Efficacy: 67.9 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.73 / 0.67  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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  | 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 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 92  | 92  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  | 94  | 91  | 89  | 92  | 90  | 88  | 88  | 88  | 88  | 86  |
| 4   | 101 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 88  | 86  | 90  | 87  | 85  | 88  | 86  | 84  | 84  | 84  | 84  | 82  |
| 5   | 98  | 91  | 86  | 82  | 96  | 90  | 85  | 82  | 88  | 84  | 81  | 86  | 83  | 81  | 85  | 82  | 80  | 80  | 80  | 80  | 79  |
| 6   | 94  | 86  | 82  | 78  | 93  | 86  | 81  | 78  | 84  | 80  | 77  | 83  | 79  | 77  | 82  | 79  | 76  | 76  | 76  | 76  | 75  |
| 7   | 90  | 83  | 78  | 74  | 89  | 82  | 77  | 74  | 81  | 77  | 74  | 80  | 76  | 73  | 79  | 75  | 73  | 73  | 73  | 73  | 72  |
| 8   | 87  | 79  | 74  | 71  | 86  | 79  | 74  | 71  | 78  | 73  | 70  | 77  | 73  | 70  | 76  | 72  | 70  | 70  | 70  | 70  | 69  |
| 9   | 84  | 76  | 71  | 68  | 83  | 75  | 71  | 68  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 70  | 67  | 67  | 67  | 67  | 66  |
| 10  | 81  | 73  | 68  | 65  | 80  | 72  | 68  | 65  | 72  | 67  | 65  | 71  | 67  | 64  | 70  | 67  | 64  | 64  | 64  | 64  | 63  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 327774 | 327774 | 327774 |
| 5°  | 329389 | 330029 | 333780 |
| 10° | 319610 | 319365 | 328249 |
| 15° | 267857 | 267732 | 277574 |
| 20° | 207065 | 209209 | 212123 |
| 25° | 126938 | 129560 | 127223 |
| 30° | 54430  | 56895  | 52699  |
| 35° | 17093  | 20604  | 16630  |
| 40° | 5868   | 7509   | 5710   |
| 45° | 1072   | 3191   | 877    |
| 50° | 589    | 1179   | 589    |
| 55° | 661    | 661    | 661    |
| 60° | 517    | 517    | 517    |
| 65° | 611    | 611    | 611    |
| 70° | 352    | 352    | 352    |
| 75° | 466    | 466    | 466    |
| 80° | 694    | 694    | 694    |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 3191 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 180.9  | 18.4      |
| 10°-20°   | 418.0  | 42.4      |
| 20°-30°   | 306.0  | 31.1      |
| 30°-40°   | 67.6   | 6.9       |
| 40°-50°   | 8.3    | 0.8       |
| 50°-60°   | 2.0    | 0.2       |
| 60°-70°   | 1.4    | 0.1       |
| 70°-80°   | 0.8    | 0.1       |
| 80°-90°   | 0.1    | 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°    | 904.9  | 91.9      |
| 0°-40°    | 972.5  | 98.7      |
| 0°-60°    | 982.7  | 99.8      |
| 0°-90°    | 985.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 985.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1903 | 1903  | 1903 | 1903  | 1903 |      |
| 5°  | 1905 | 1904  | 1909 | 1923  | 1931 | 180  |
| 15° | 1502 | 1494  | 1502 | 1538  | 1557 | 415  |
| 25° | 668  | 667   | 682  | 677   | 670  | 303  |
| 35° | 81   | 86    | 98   | 86    | 79   | 64   |
| 45° | 4    | 7     | 13   | 7     | 4    | 6    |
| 55° | 2    | 2     | 2    | 2     | 2    | 2    |
| 65° | 2    | 2     | 2    | 2     | 2    | 1    |
| 75° | 1    | 1     | 1    | 1     | 1    | 1    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    | 0    |



TEST NUMBER: P1318399

CATALOG NUMBER: LDSQA3D13R459830DE010 3LSQCDR1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1903.2 | 1903.2 | 1903.2 | 1903.2 | 1903.2 |
| 1°    | 1904.6 | 1901.7 | 1901.0 | 1906.1 | 1909.7 |
| 2°    | 1906.1 | 1902.4 | 1903.2 | 1908.2 | 1910.4 |
| 3°    | 1904.6 | 1901.0 | 1904.6 | 1911.9 | 1914.8 |
| 4°    | 1903.9 | 1902.4 | 1906.1 | 1916.2 | 1921.3 |
| 5°    | 1905.3 | 1903.9 | 1909.0 | 1922.8 | 1930.7 |
| 6°    | 1903.2 | 1901.0 | 1908.2 | 1925.7 | 1937.3 |
| 7°    | 1898.1 | 1895.9 | 1903.9 | 1924.9 | 1938.0 |
| 8°    | 1884.3 | 1879.9 | 1887.9 | 1914.0 | 1930.0 |
| 9°    | 1859.6 | 1853.8 | 1861.8 | 1892.3 | 1911.1 |
| 10°   | 1827.6 | 1821.1 | 1826.2 | 1856.0 | 1877.0 |
| 11°   | 1781.9 | 1773.2 | 1779.0 | 1810.9 | 1838.5 |
| 12°   | 1723.8 | 1711.5 | 1718.7 | 1755.0 | 1774.6 |
| 13°   | 1660.6 | 1649.0 | 1650.5 | 1683.1 | 1710.7 |
| 14°   | 1582.2 | 1567.0 | 1573.5 | 1607.6 | 1629.4 |
| 15°   | 1502.3 | 1494.4 | 1501.6 | 1537.9 | 1556.8 |
| 17.5° | 1319.4 | 1318.6 | 1325.2 | 1352.0 | 1362.2 |
| 20°   | 1129.8 | 1132.0 | 1141.5 | 1156.0 | 1157.4 |
| 22.5° | 905.5  | 906.2  | 916.4  | 926.5  | 924.3  |
| 25°   | 668.0  | 667.3  | 681.8  | 676.7  | 669.5  |
| 27.5° | 442.9  | 445.8  | 458.9  | 449.5  | 442.2  |
| 30°   | 273.7  | 279.6  | 286.1  | 274.5  | 265.0  |
| 32.5° | 148.1  | 157.6  | 167.0  | 156.8  | 147.4  |
| 35°   | 81.3   | 85.7   | 98.0   | 85.7   | 79.1   |
| 37.5° | 47.2   | 49.4   | 57.4   | 49.4   | 45.0   |
| 40°   | 26.1   | 29.8   | 33.4   | 29.8   | 25.4   |
| 42.5° | 10.9   | 16.7   | 20.3   | 16.7   | 10.9   |
| 45°   | 4.4    | 7.3    | 13.1   | 7.3    | 3.6    |
| 47.5° | 2.2    | 2.9    | 8.0    | 2.9    | 2.2    |
| 50°   | 2.2    | 2.2    | 4.4    | 2.2    | 2.2    |
| 52.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 55°   | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 57.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 60°   | 1.5    | 1.5    | 1.5    | 2.2    | 1.5    |
| 62.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 65°   | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 67.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 70°   | 0.7    | 0.7    | 0.7    | 1.5    | 0.7    |
| 72.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 75°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 77.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 80°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 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)