

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: P1319994

Luminaire Tested: LDSQA3D09R409840DE010 3LSQCDR1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319994  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R409840DE010 3LSQCDR1MB  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , 3LSQCDR1MB TRIM  
Light Source: -  
Ballast/Driver: -

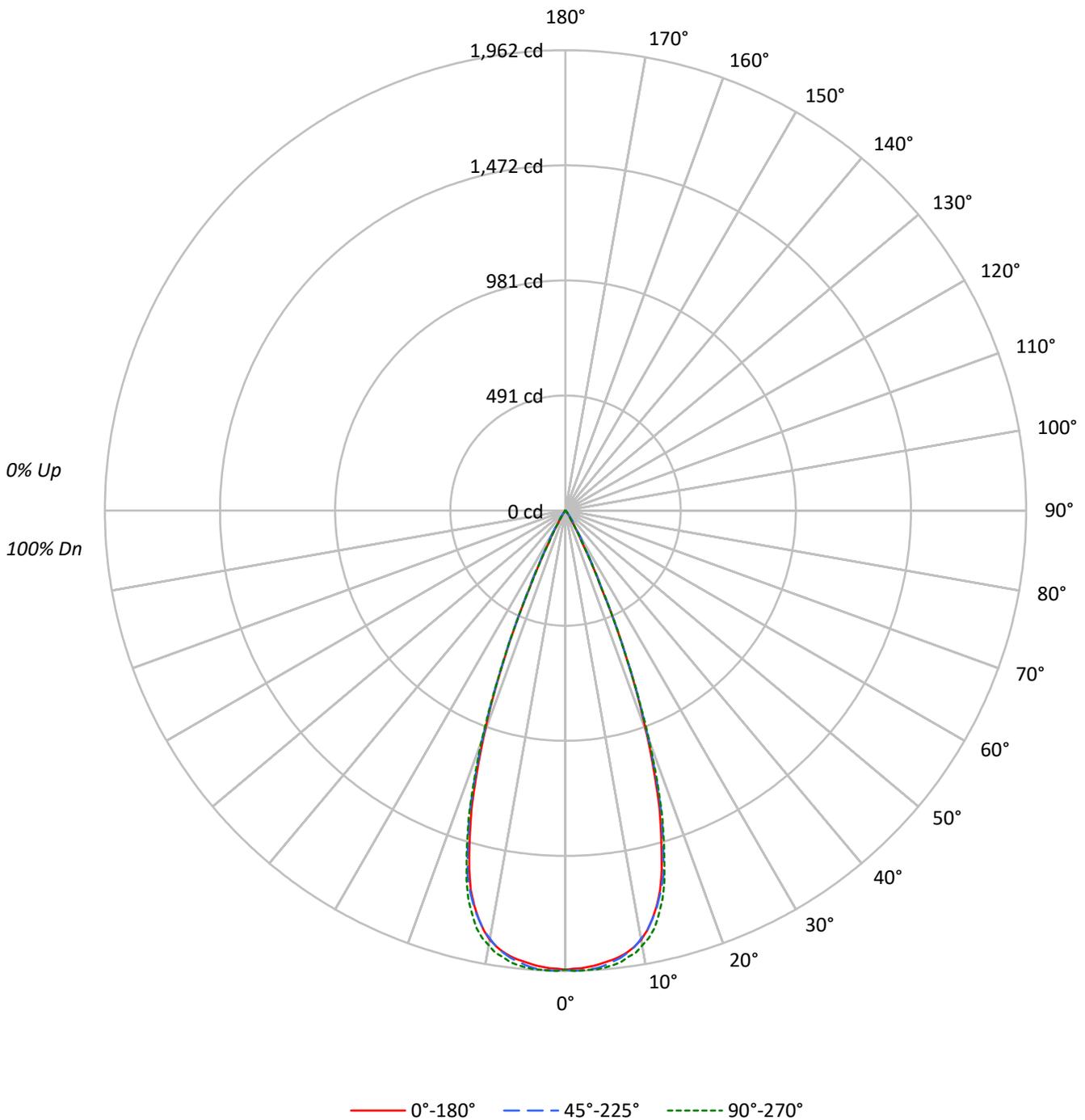
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 823.0 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.69 / 0.6  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 98  | 98  | 98  | 96  |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 97  | 95  | 94  | 94  | 94  | 94  | 92  |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  | 90  | 90  | 90  | 89  |
| 4   | 103 | 97  | 93  | 90  | 102 | 96  | 92  | 89  | 94  | 91  | 88  | 92  | 90  | 87  | 91  | 88  | 87  | 87  | 87  | 87  | 85  |
| 5   | 100 | 93  | 89  | 86  | 98  | 93  | 88  | 85  | 91  | 87  | 85  | 89  | 86  | 84  | 88  | 85  | 83  | 83  | 83  | 83  | 82  |
| 6   | 96  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  | 86  | 83  | 81  | 85  | 82  | 80  | 80  | 80  | 80  | 79  |
| 7   | 93  | 86  | 82  | 79  | 92  | 86  | 81  | 78  | 85  | 81  | 78  | 83  | 80  | 78  | 82  | 80  | 77  | 77  | 77  | 77  | 76  |
| 8   | 90  | 83  | 79  | 76  | 89  | 83  | 78  | 75  | 82  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 75  | 75  | 75  | 75  | 73  |
| 9   | 87  | 80  | 76  | 73  | 86  | 80  | 75  | 73  | 79  | 75  | 72  | 78  | 75  | 72  | 77  | 74  | 72  | 72  | 72  | 72  | 71  |
| 10  | 85  | 77  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  | 76  | 72  | 70  | 75  | 72  | 70  | 70  | 70  | 70  | 69  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 337057 | 337057 | 337057 |
| 5°  | 334143 | 336235 | 337843 |
| 10° | 324629 | 324017 | 329088 |
| 15° | 282406 | 286953 | 290465 |
| 20° | 185347 | 188957 | 191395 |
| 25° | 66072  | 69930  | 65749  |
| 30° | 14398  | 19469  | 14517  |
| 35° | 4625   | 8031   | 4499   |
| 40° | 1439   | 2473   | 1304   |
| 45° | 146    | 852    | 146    |
| 50° | 0      | 161    | 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: 852 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 183.0  | 22.2      |
| 10°-20°   | 426.2  | 51.8      |
| 20°-30°   | 191.2  | 23.2      |
| 30°-40°   | 20.6   | 2.5       |
| 40°-50°   | 1.9    | 0.2       |
| 50°-60°   | 0.0    | 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°    | 800.4  | 97.3      |
| 0°-40°    | 821.1  | 99.8      |
| 0°-60°    | 823.0  | 100.0     |
| 0°-90°    | 823.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 823.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1957 | 1957  | 1957 | 1957  | 1957 |      |
| 5°  | 1933 | 1938  | 1945 | 1948  | 1954 | 182  |
| 15° | 1584 | 1596  | 1609 | 1619  | 1629 | 421  |
| 25° | 348  | 358   | 368  | 374   | 346  | 186  |
| 35° | 22   | 26    | 38   | 25    | 21   | 17   |
| 45° | 1    | 1     | 4    | 1     | 1    | 1    |
| 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°    | 1957.1 | 1957.1 | 1957.1 | 1957.1 | 1957.1 |
| 1°    | 1953.1 | 1957.1 | 1960.6 | 1957.7 | 1961.8 |
| 2°    | 1951.3 | 1956.0 | 1961.2 | 1958.3 | 1961.8 |
| 3°    | 1946.7 | 1952.5 | 1958.3 | 1956.5 | 1960.0 |
| 4°    | 1940.3 | 1944.9 | 1953.6 | 1953.6 | 1958.9 |
| 5°    | 1932.8 | 1938.0 | 1944.9 | 1947.8 | 1954.2 |
| 6°    | 1924.7 | 1927.6 | 1932.8 | 1938.6 | 1947.3 |
| 7°    | 1914.2 | 1914.2 | 1920.6 | 1926.4 | 1938.0 |
| 8°    | 1899.7 | 1898.6 | 1903.2 | 1910.8 | 1921.2 |
| 9°    | 1881.8 | 1877.7 | 1881.2 | 1892.2 | 1907.9 |
| 10°   | 1856.3 | 1852.8 | 1852.8 | 1866.7 | 1881.8 |
| 11°   | 1823.2 | 1822.1 | 1822.7 | 1836.0 | 1856.3 |
| 12°   | 1778.6 | 1779.8 | 1779.8 | 1794.8 | 1819.8 |
| 13°   | 1728.2 | 1727.6 | 1732.8 | 1749.6 | 1766.4 |
| 14°   | 1666.8 | 1670.2 | 1675.5 | 1690.5 | 1707.9 |
| 15°   | 1583.9 | 1595.5 | 1609.4 | 1618.7 | 1629.1 |
| 17.5° | 1331.8 | 1343.4 | 1362.5 | 1370.0 | 1372.4 |
| 20°   | 1011.3 | 1028.1 | 1031.0 | 1046.1 | 1044.3 |
| 22.5° | 678.1  | 676.9  | 679.2  | 681.0  | 681.5  |
| 25°   | 347.7  | 358.2  | 368.0  | 374.4  | 346.0  |
| 27.5° | 151.3  | 169.2  | 182.0  | 165.2  | 153.0  |
| 30°   | 72.4   | 82.3   | 97.9   | 82.9   | 73.0   |
| 32.5° | 39.4   | 45.8   | 62.0   | 45.2   | 38.8   |
| 35°   | 22.0   | 25.5   | 38.2   | 24.9   | 21.4   |
| 37.5° | 12.7   | 13.9   | 20.9   | 13.9   | 12.2   |
| 40°   | 6.4    | 8.1    | 11.0   | 8.1    | 5.8    |
| 42.5° | 2.3    | 4.1    | 5.8    | 4.1    | 2.3    |
| 45°   | 0.6    | 1.2    | 3.5    | 1.2    | 0.6    |
| 47.5° | 0.0    | 0.0    | 1.7    | 0.0    | 0.0    |
| 50°   | 0.0    | 0.0    | 0.6    | 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)