

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: P1309296

Luminaire Tested: LDSQA3D13R509030DE010 3LSQCDR1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309296  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R509030DE010 3LSQCDR1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , 3LSQCDR1MB TRIM  
Light Source: -  
Ballast/Driver: -

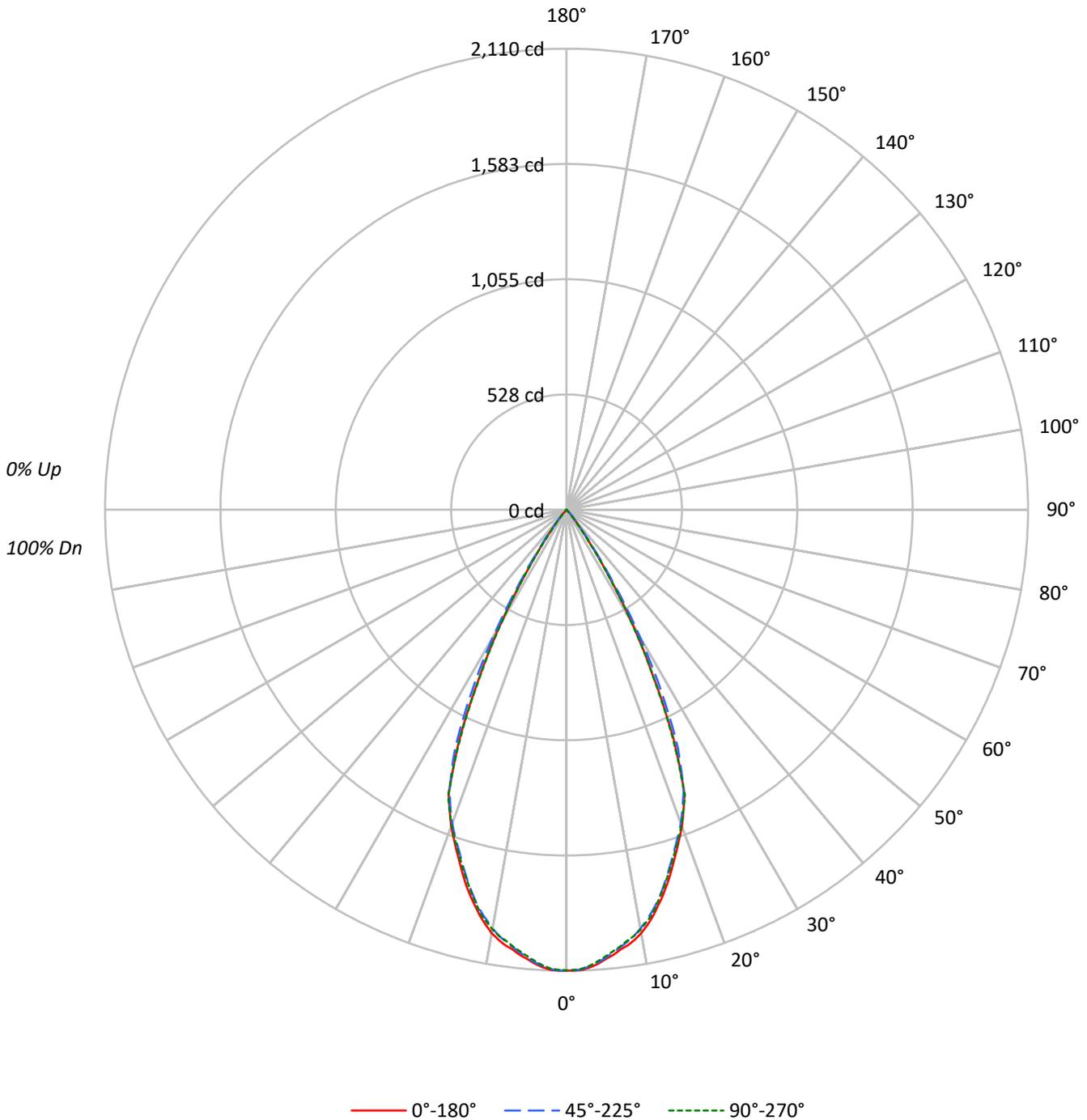
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1358.0 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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 | 110 | 108 | 106 | 106 | 104 | 102 | 102 | 101 | 99  | 98  | 97  | 97  | 97  | 97  | 97  | 95  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 98  | 95  | 97  | 95  | 93  | 95  | 93  | 91  | 91  | 91  | 91  | 90  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  | 93  | 90  | 88  | 91  | 88  | 86  | 86  | 86  | 86  | 85  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 90  | 87  | 84  | 89  | 85  | 83  | 87  | 84  | 82  | 82  | 82  | 82  | 80  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 77  | 77  | 77  | 76  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 79  | 75  | 82  | 78  | 74  | 81  | 77  | 74  | 79  | 76  | 73  | 73  | 73  | 73  | 72  |
| 7   | 88  | 80  | 75  | 71  | 87  | 79  | 74  | 71  | 78  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 70  | 70  | 70  | 70  | 69  |
| 8   | 85  | 76  | 71  | 67  | 83  | 76  | 71  | 67  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 66  | 66  | 66  | 65  |
| 9   | 81  | 73  | 67  | 64  | 80  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 66  | 63  | 70  | 66  | 63  | 63  | 63  | 63  | 62  |
| 10  | 78  | 69  | 64  | 61  | 77  | 69  | 64  | 61  | 68  | 64  | 60  | 67  | 63  | 60  | 67  | 63  | 60  | 60  | 60  | 60  | 59  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 363200 | 363200 | 363200 |
| 5°  | 356860 | 355840 | 354837 |
| 10° | 344163 | 340420 | 341102 |
| 15° | 316604 | 312610 | 313484 |
| 20° | 282702 | 280045 | 281639 |
| 25° | 220032 | 229248 | 217638 |
| 30° | 119180 | 133101 | 117072 |
| 35° | 37571  | 44719  | 36751  |
| 40° | 8296   | 11578  | 7869   |
| 45° | 244    | 3556   | 244    |
| 50° | 0      | 509    | 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: 3556 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 193.2  | 14.2      |
| 10°-20°   | 490.9  | 36.1      |
| 20°-30°   | 517.0  | 38.1      |
| 30°-40°   | 147.7  | 10.9      |
| 40°-50°   | 9.2    | 0.7       |
| 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°    | 1201.1 | 88.4      |
| 0°-40°    | 1348.8 | 99.3      |
| 0°-60°    | 1358.0 | 100.0     |
| 0°-90°    | 1358.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1358.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2109 | 2109  | 2109 | 2109  | 2109 |      |
| 5°  | 2064 | 2062  | 2058 | 2056  | 2052 | 194  |
| 15° | 1776 | 1764  | 1753 | 1756  | 1758 | 495  |
| 25° | 1158 | 1201  | 1206 | 1193  | 1145 | 507  |
| 35° | 179  | 191   | 213  | 181   | 175  | 139  |
| 45° | 1    | 5     | 15   | 5     | 1    | 6    |
| 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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 CATALOG NUMBER: LDSQA3D13R509030DE010 3LSQCDR1MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2108.9 | 2108.9 | 2108.9 | 2108.9 | 2108.9 |
| 1°    | 2109.8 | 2110.8 | 2108.9 | 2110.8 | 2105.9 |
| 2°    | 2106.9 | 2105.0 | 2103.0 | 2104.0 | 2101.1 |
| 3°    | 2096.2 | 2095.3 | 2091.4 | 2092.3 | 2088.5 |
| 4°    | 2082.6 | 2079.7 | 2076.8 | 2074.9 | 2071.0 |
| 5°    | 2064.2 | 2062.2 | 2058.3 | 2056.4 | 2052.5 |
| 6°    | 2048.6 | 2044.7 | 2037.9 | 2036.0 | 2032.1 |
| 7°    | 2028.2 | 2026.3 | 2017.5 | 2015.6 | 2013.7 |
| 8°    | 2012.7 | 2006.9 | 1996.2 | 1997.1 | 1992.3 |
| 9°    | 1992.3 | 1984.5 | 1973.8 | 1973.8 | 1974.8 |
| 10°   | 1968.0 | 1956.3 | 1946.6 | 1949.5 | 1950.5 |
| 11°   | 1936.0 | 1928.2 | 1913.6 | 1920.4 | 1920.4 |
| 12°   | 1901.0 | 1891.3 | 1880.6 | 1886.4 | 1890.3 |
| 13°   | 1860.2 | 1852.4 | 1842.7 | 1848.5 | 1846.6 |
| 14°   | 1820.4 | 1805.8 | 1799.0 | 1806.8 | 1803.8 |
| 15°   | 1775.7 | 1764.0 | 1753.3 | 1756.2 | 1758.2 |
| 17.5° | 1656.2 | 1643.6 | 1635.8 | 1636.8 | 1645.5 |
| 20°   | 1542.5 | 1537.7 | 1528.0 | 1531.9 | 1536.7 |
| 22.5° | 1408.5 | 1410.4 | 1398.8 | 1401.7 | 1413.4 |
| 25°   | 1157.9 | 1200.6 | 1206.4 | 1192.8 | 1145.3 |
| 27.5° | 857.7  | 921.8  | 941.3  | 910.2  | 851.9  |
| 30°   | 599.3  | 616.8  | 669.3  | 610.0  | 588.7  |
| 32.5° | 351.6  | 377.9  | 406.0  | 365.2  | 350.7  |
| 35°   | 178.7  | 191.4  | 212.7  | 180.7  | 174.8  |
| 37.5° | 82.6   | 88.4   | 97.1   | 82.6   | 77.7   |
| 40°   | 36.9   | 43.7   | 51.5   | 41.8   | 35.0   |
| 42.5° | 11.7   | 20.4   | 27.2   | 18.5   | 10.7   |
| 45°   | 1.0    | 4.9    | 14.6   | 4.9    | 1.0    |
| 47.5° | 0.0    | 1.0    | 5.8    | 1.0    | 0.0    |
| 50°   | 0.0    | 0.0    | 1.9    | 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)