

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: P1307351

Luminaire Tested: LDSQA3D17R459024DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307351  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R459024DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

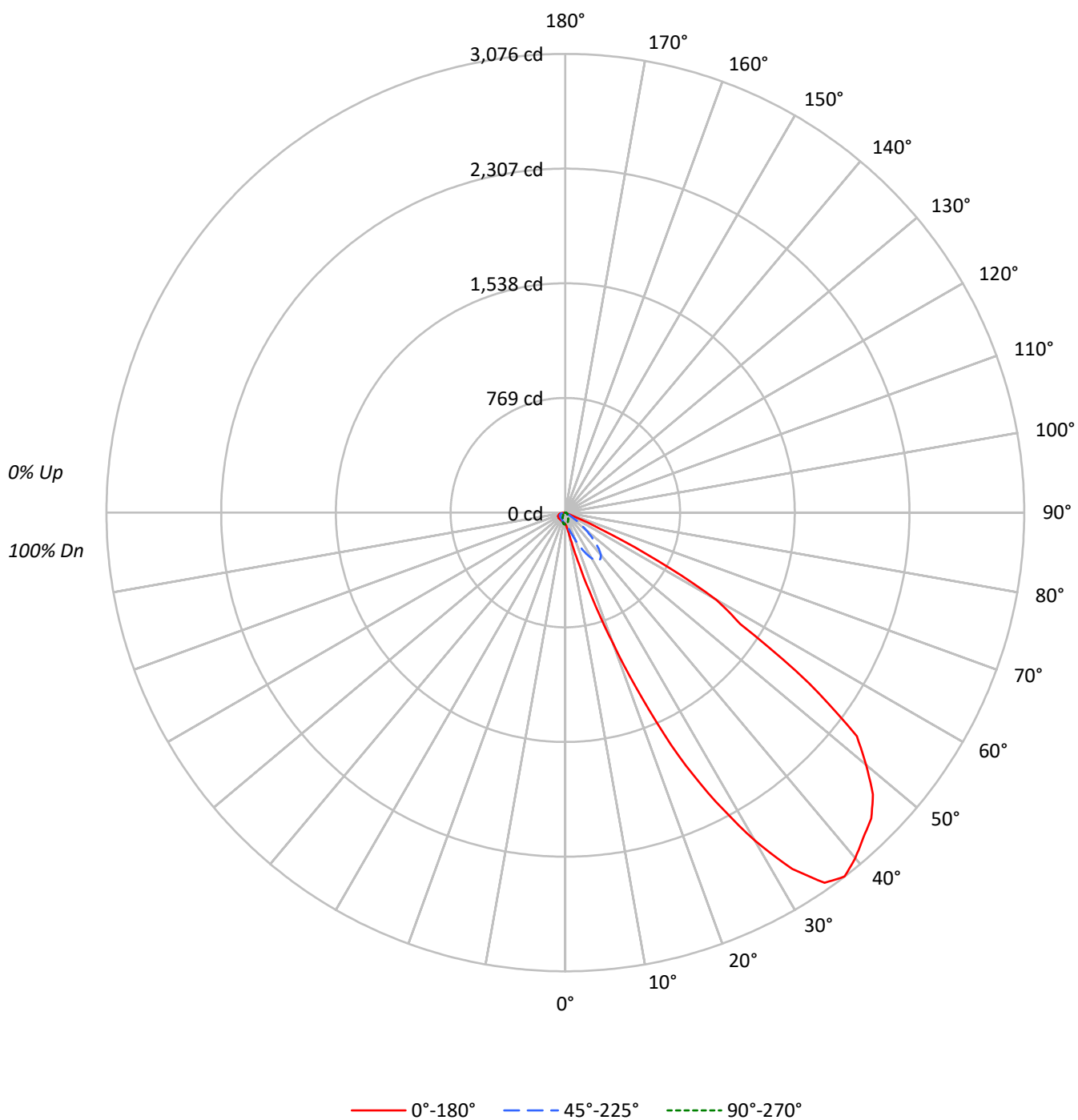
Lumens per Lamp: N/A  
Luminaire Lumens: 1374.0 lumens  
Efficiency: N/A  
Efficacy: 64.8 lumens/watt  
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
Input Voltage (V): NR  
Input Current (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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 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 |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 88  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  | 77  | 70  | 65  | 74  | 69  | 64  | 71  | 67  | 63  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  |
| 5   | 76  | 63  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  | 57  | 51  | 45  | 55  | 50  | 45  |
| 6   | 69  | 55  | 46  | 39  | 67  | 54  | 46  | 39  | 52  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 38  |
| 7   | 63  | 49  | 40  | 34  | 61  | 48  | 40  | 33  | 47  | 39  | 33  | 45  | 38  | 33  | 44  | 37  | 33  |
| 8   | 58  | 44  | 35  | 29  | 56  | 43  | 35  | 29  | 42  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  |
| 9   | 53  | 39  | 31  | 25  | 52  | 39  | 30  | 25  | 38  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  |
| 10  | 49  | 36  | 27  | 22  | 48  | 35  | 27  | 22  | 34  | 27  | 21  | 33  | 26  | 21  | 32  | 26  | 21  |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 13692  | 13692 | 13692 | 13692 | 13692 |
| 5°  | 16285  | 15110 | 13537 | 12568 | 12568 |
| 10° | 26005  | 17663 | 12714 | 11909 | 11909 |
| 15° | 64776  | 23678 | 11536 | 11126 | 11536 |
| 20° | 170611 | 35372 | 9989  | 10612 | 11235 |
| 25° | 342599 | 52428 | 8627  | 9919  | 11003 |
| 30° | 505059 | 70219 | 7000  | 9705  | 11296 |
| 35° | 637063 | 82353 | 5971  | 9545  | 11690 |
| 40° | 679700 | 83206 | 5351  | 9960  | 12500 |
| 45° | 706225 | 69414 | 4969  | 10790 | 13542 |
| 50° | 705087 | 48362 | 4876  | 11548 | 15218 |
| 55° | 599291 | 21469 | 5104  | 12941 | 16695 |
| 60° | 402794 | 4306  | 5098  | 14467 | 19151 |
| 65° | 106891 | 1834  | 5094  | 15730 | 21761 |
| 70° | 2870   | 2266  | 5136  | 17171 | 24573 |
| 75° | 2262   | 2262  | 5257  | 18099 | 27948 |
| 80° | 2281   | 3372  | 5653  | 19142 | 31539 |
| 85° | 2174   | 4545  | 8892  | 20156 | 31419 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 724411 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 7.9    | 0.6       |
| 10°-20°   | 38.8   | 2.8       |
| 20°-30°   | 159.8  | 11.6      |
| 30°-40°   | 336.9  | 24.5      |
| 40°-50°   | 415.6  | 30.2      |
| 50°-60°   | 311.5  | 22.7      |
| 60°-70°   | 80.2   | 5.8       |
| 70°-80°   | 16.6   | 1.2       |
| 80°-90°   | 6.7    | 0.5       |
| 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°    | 206.5  | 15.0      |
| 0°-40°    | 543.4  | 39.5      |
| 0°-60°    | 1270.5 | 92.5      |
| 0°-90°    | 1374.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1374.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 80   | 80  | 80  | 80   | 80   |      |
| 5°  | 94   | 87  | 78  | 73   | 73   | 11   |
| 15° | 363  | 133 | 65  | 62   | 65   | 133  |
| 25° | 1803 | 276 | 45  | 52   | 58   | 840  |
| 35° | 3030 | 392 | 28  | 45   | 56   | 1847 |
| 45° | 2900 | 285 | 20  | 44   | 56   | 2219 |
| 55° | 1996 | 72  | 17  | 43   | 56   | 1723 |
| 65° | 262  | 4   | 12  | 39   | 53   | 378  |
| 75° | 3    | 3   | 8   | 27   | 42   | 4    |
| 85° | 1    | 2   | 4   | 10   | 16   | 1    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 45°   | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|
| 0°    | 79.5   | 79.5   | 79.5   | 79.5   | 79.5   | 79.5   | 79.5   | 79.5  | 79.5  | 79.5 | 79.5   |
| 2.5°  | 84.0   | 84.0   | 84.0   | 84.0   | 84.0   | 84.0   | 84.0   | 82.9  | 81.7  | 79.5 | 77.2   |
| 5°    | 94.2   | 93.1   | 93.1   | 93.1   | 92.0   | 90.8   | 90.8   | 87.4  | 82.9  | 78.3 | 74.9   |
| 7.5°  | 111.3  | 111.3  | 110.1  | 107.9  | 106.7  | 104.4  | 102.2  | 93.1  | 82.9  | 76.1 | 71.5   |
| 10°   | 148.7  | 146.5  | 143.0  | 140.8  | 135.1  | 127.2  | 121.5  | 101.0 | 81.7  | 72.7 | 69.3   |
| 12.5° | 222.5  | 227.1  | 215.7  | 204.4  | 188.5  | 173.7  | 155.5  | 114.7 | 81.7  | 69.3 | 65.8   |
| 15°   | 363.3  | 371.2  | 349.7  | 327.0  | 288.4  | 252.0  | 218.0  | 132.8 | 79.5  | 64.7 | 61.3   |
| 17.5° | 593.8  | 604.0  | 567.7  | 514.3  | 454.1  | 381.5  | 319.0  | 157.8 | 77.2  | 60.2 | 57.9   |
| 20°   | 930.9  | 929.8  | 859.4  | 792.4  | 676.6  | 569.9  | 453.0  | 193.0 | 73.8  | 54.5 | 54.5   |
| 22.5° | 1345.3 | 1349.9 | 1263.6 | 1143.3 | 978.6  | 807.2  | 621.0  | 233.9 | 69.3  | 50.0 | 51.1   |
| 25°   | 1802.9 | 1764.3 | 1662.1 | 1515.6 | 1305.6 | 1068.3 | 823.1  | 275.9 | 64.7  | 45.4 | 47.7   |
| 27.5° | 2184.3 | 2146.9 | 2029.9 | 1856.2 | 1630.3 | 1348.7 | 1028.6 | 317.9 | 59.0  | 40.9 | 44.3   |
| 30°   | 2539.7 | 2492.0 | 2351.2 | 2154.8 | 1885.7 | 1581.5 | 1221.6 | 353.1 | 52.2  | 35.2 | 40.9   |
| 32.5° | 2832.6 | 2789.4 | 2629.4 | 2401.2 | 2108.3 | 1781.3 | 1385.1 | 380.3 | 45.4  | 31.8 | 38.6   |
| 35°   | 3030.1 | 2985.8 | 2838.3 | 2587.4 | 2268.3 | 1926.6 | 1517.9 | 391.7 | 39.7  | 28.4 | 37.5   |
| 37.5° | 3075.5 | 3051.7 | 2946.1 | 2711.1 | 2378.5 | 2019.7 | 1603.0 | 388.3 | 32.9  | 26.1 | 35.2   |
| 40°   | 3023.3 | 3029.0 | 2979.0 | 2783.8 | 2437.5 | 2059.4 | 1638.2 | 370.1 | 27.2  | 23.8 | 34.1   |
| 42.5° | 2956.3 | 2971.1 | 2967.7 | 2813.3 | 2462.5 | 2061.7 | 1623.5 | 333.8 | 21.6  | 21.6 | 32.9   |
| 45°   | 2899.6 | 2914.3 | 2934.8 | 2800.8 | 2445.4 | 2032.2 | 1576.9 | 285.0 | 15.9  | 20.4 | 32.9   |
| 47.5° | 2796.3 | 2812.1 | 2841.7 | 2700.9 | 2359.2 | 1956.1 | 1492.9 | 231.6 | 11.4  | 19.3 | 31.8   |
| 50°   | 2631.6 | 2639.6 | 2631.6 | 2473.8 | 2193.4 | 1833.5 | 1356.7 | 180.5 | 7.9   | 18.2 | 31.8   |
| 52.5° | 2462.5 | 2446.6 | 2380.7 | 2180.9 | 1930.0 | 1639.4 | 1185.3 | 128.3 | 5.7   | 17.0 | 30.7   |
| 55°   | 1995.9 | 1970.9 | 1922.1 | 1799.5 | 1656.4 | 1401.0 | 958.2  | 71.5  | 5.7   | 17.0 | 29.5   |
| 57.5° | 1390.7 | 1404.4 | 1421.4 | 1396.4 | 1330.6 | 1103.5 | 727.7  | 31.8  | 5.7   | 15.9 | 29.5   |
| 60°   | 1169.4 | 1158.0 | 1159.1 | 1143.3 | 1034.3 | 804.9  | 500.7  | 12.5  | 5.7   | 14.8 | 28.4   |
| 62.5° | 698.2  | 706.2  | 720.9  | 724.3  | 616.5  | 449.6  | 262.3  | 5.7   | 5.7   | 13.6 | 27.2   |
| 65°   | 262.3  | 274.7  | 240.7  | 208.9  | 165.8  | 121.5  | 61.3   | 4.5   | 6.8   | 12.5 | 25.0   |
| 67.5° | 7.9    | 9.1    | 11.4   | 10.2   | 10.2   | 9.1    | 6.8    | 4.5   | 6.8   | 11.4 | 23.8   |
| 70°   | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 4.5    | 4.5    | 4.5   | 5.7   | 10.2 | 21.6   |
| 72.5° | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5   | 5.7   | 9.1  | 19.3   |
| 75°   | 3.4    | 4.5    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4   | 5.7   | 7.9  | 15.9   |
| 77.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4   | 4.5   | 6.8  | 13.6   |
| 80°   | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 3.4   | 4.5   | 5.7  | 11.4   |
| 82.5° | 2.3    | 2.3    | 2.3    | 1.1    | 2.3    | 2.3    | 2.3    | 2.3   | 4.5   | 4.5  | 9.1    |
| 85°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3   | 3.4   | 4.5  | 5.7    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 2.3   | 3.4   | 3.4  | 3.4    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0  | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 79.5 | 79.5   | 79.5 |
| 2.5°  | 74.9 | 74.9   | 74.9 |
| 5°    | 72.7 | 72.7   | 72.7 |
| 7.5°  | 70.4 | 70.4   | 70.4 |
| 10°   | 68.1 | 68.1   | 68.1 |
| 12.5° | 65.8 | 65.8   | 67.0 |
| 15°   | 62.4 | 64.7   | 64.7 |
| 17.5° | 60.2 | 62.4   | 63.6 |
| 20°   | 57.9 | 60.2   | 61.3 |
| 22.5° | 54.5 | 57.9   | 60.2 |
| 25°   | 52.2 | 56.8   | 57.9 |
| 27.5° | 50.0 | 55.6   | 57.9 |
| 30°   | 48.8 | 54.5   | 56.8 |
| 32.5° | 46.5 | 53.4   | 55.6 |
| 35°   | 45.4 | 53.4   | 55.6 |
| 37.5° | 45.4 | 52.2   | 55.6 |
| 40°   | 44.3 | 52.2   | 55.6 |
| 42.5° | 44.3 | 52.2   | 55.6 |
| 45°   | 44.3 | 52.2   | 55.6 |
| 47.5° | 43.1 | 52.2   | 56.8 |
| 50°   | 43.1 | 53.4   | 56.8 |
| 52.5° | 43.1 | 53.4   | 56.8 |
| 55°   | 43.1 | 53.4   | 55.6 |
| 57.5° | 42.0 | 52.2   | 55.6 |
| 60°   | 42.0 | 52.2   | 55.6 |
| 62.5° | 39.7 | 51.1   | 54.5 |
| 65°   | 38.6 | 50.0   | 53.4 |
| 67.5° | 36.3 | 48.8   | 51.1 |
| 70°   | 34.1 | 45.4   | 48.8 |
| 72.5° | 30.7 | 43.1   | 46.5 |
| 75°   | 27.2 | 39.7   | 42.0 |
| 77.5° | 23.8 | 35.2   | 37.5 |
| 80°   | 19.3 | 29.5   | 31.8 |
| 82.5° | 14.8 | 22.7   | 23.8 |
| 85°   | 10.2 | 14.8   | 15.9 |
| 87.5° | 4.5  | 6.8    | 7.9  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)