

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: P1320306

Luminaire Tested: LDSQA3D17R509840DE010 3LSQCDR1MW

Issue Date: 1/29/2026

**Test Information**

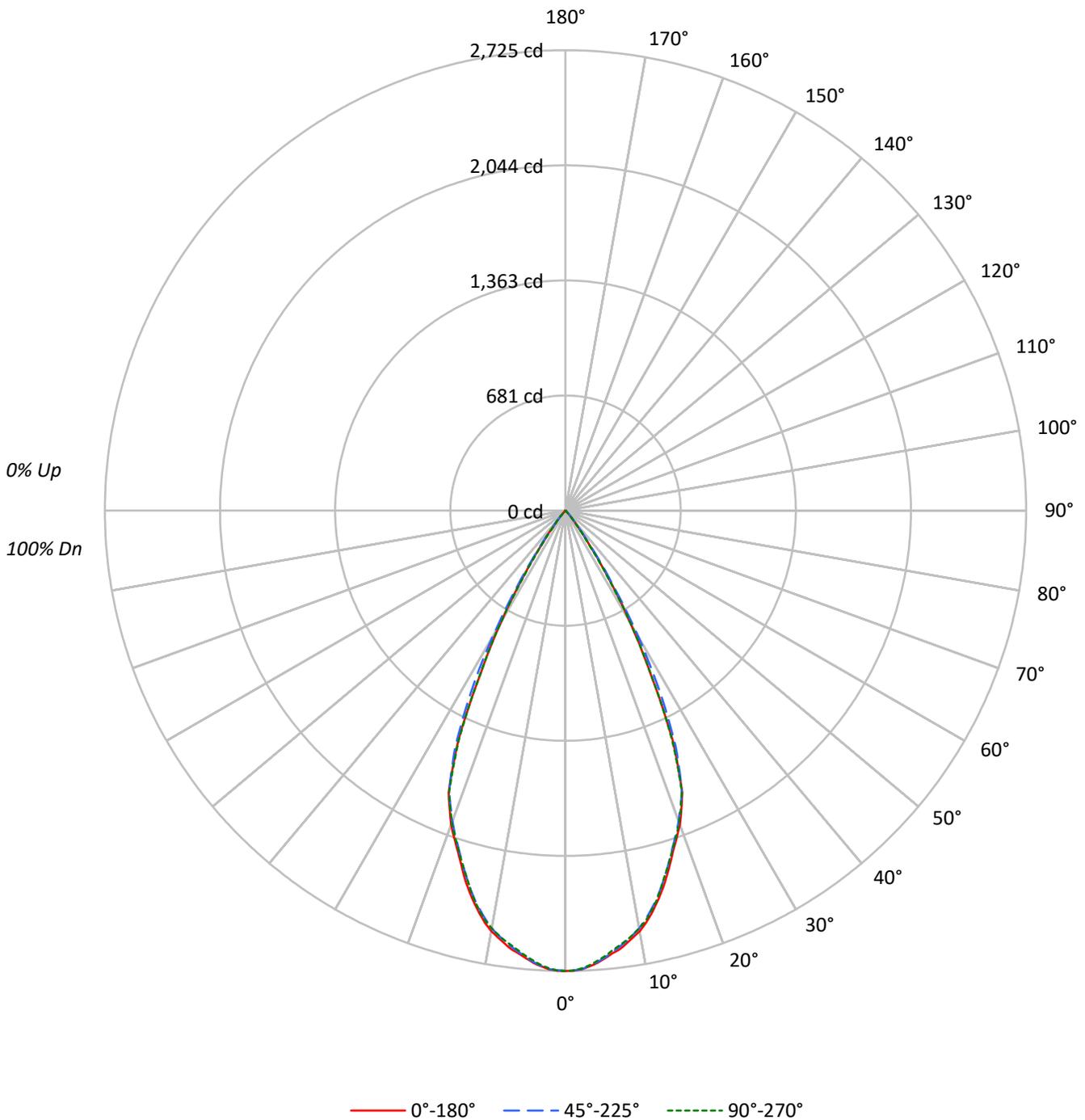
Test Method: LM-79-2019  
Report Number: P1320306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-39)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R509840DE010 3LSQCDR1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1755.9 lumens  
Efficiency: N/A  
Efficacy: 86.1 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): 20.4  
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   | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 96  | 96  | 96  | 95  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  | 97  | 95  | 93  | 94  | 93  | 91  | 91  | 91  | 91  | 90  |
| 3   | 105 | 99  | 94  | 91  | 103 | 98  | 93  | 90  | 95  | 92  | 89  | 93  | 90  | 87  | 90  | 88  | 86  | 86  | 86  | 86  | 85  |
| 4   | 100 | 93  | 89  | 85  | 98  | 92  | 88  | 84  | 90  | 86  | 83  | 88  | 85  | 82  | 87  | 84  | 81  | 81  | 81  | 81  | 80  |
| 5   | 96  | 88  | 83  | 80  | 94  | 88  | 83  | 79  | 86  | 82  | 78  | 84  | 81  | 78  | 83  | 80  | 77  | 77  | 77  | 77  | 76  |
| 6   | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 77  | 74  | 80  | 77  | 74  | 79  | 76  | 73  | 73  | 73  | 73  | 72  |
| 7   | 88  | 80  | 74  | 71  | 87  | 79  | 74  | 71  | 78  | 73  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 69  | 69  | 69  | 68  |
| 8   | 84  | 76  | 71  | 67  | 83  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 72  | 69  | 66  | 66  | 66  | 66  | 65  |
| 9   | 81  | 72  | 67  | 64  | 80  | 72  | 67  | 63  | 71  | 66  | 63  | 70  | 66  | 63  | 69  | 66  | 63  | 63  | 63  | 63  | 62  |
| 10  | 78  | 69  | 64  | 60  | 77  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 60  | 66  | 63  | 60  | 60  | 60  | 60  | 59  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 469272 | 469272 | 469272 |
| 5°  | 460087 | 459222 | 457926 |
| 10° | 442078 | 439017 | 439245 |
| 15° | 405824 | 402044 | 401598 |
| 20° | 362556 | 358670 | 360503 |
| 25° | 284945 | 293249 | 282589 |
| 30° | 152450 | 170786 | 152948 |
| 35° | 49786  | 58175  | 46906  |
| 40° | 12320  | 15423  | 11781  |
| 45° | 1510   | 5456   | 1510   |
| 50° | 991    | 1661   | 991    |
| 55° | 1111   | 1111   | 1111   |
| 60° | 861    | 861    | 861    |
| 65° | 1019   | 1019   | 1019   |
| 70° | 604    | 604    | 604    |
| 75° | 799    | 799    | 799    |
| 80° | 1190   | 1190   | 1190   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 5456 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 249.2  | 14.2      |
| 10°-20°   | 630.2  | 35.9      |
| 20°-30°   | 662.8  | 37.7      |
| 30°-40°   | 191.0  | 10.9      |
| 40°-50°   | 15.5   | 0.9       |
| 50°-60°   | 3.3    | 0.2       |
| 60°-70°   | 2.4    | 0.1       |
| 70°-80°   | 1.3    | 0.1       |
| 80°-90°   | 0.3    | 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°    | 1542.1 | 87.8      |
| 0°-40°    | 1733.1 | 98.7      |
| 0°-60°    | 1751.9 | 99.8      |
| 0°-90°    | 1755.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1755.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2725 | 2725  | 2725 | 2725  | 2725 |      |
| 5°  | 2661 | 2660  | 2656 | 2659  | 2649 | 250  |
| 15° | 2276 | 2261  | 2255 | 2255  | 2252 | 634  |
| 25° | 1500 | 1537  | 1543 | 1526  | 1487 | 650  |
| 35° | 237  | 246   | 277  | 237   | 223  | 183  |
| 45° | 6    | 12    | 22   | 12    | 6    | 12   |
| 55° | 4    | 4     | 4    | 4     | 4    | 3    |
| 65° | 2    | 2     | 2    | 2     | 2    | 2    |
| 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°    | 2724.8 | 2724.8 | 2724.8 | 2724.8 | 2724.8 |
| 1°    | 2723.6 | 2726.1 | 2721.1 | 2729.8 | 2722.3 |
| 2°    | 2717.4 | 2718.6 | 2716.1 | 2722.3 | 2712.4 |
| 3°    | 2702.4 | 2704.9 | 2699.9 | 2704.9 | 2696.2 |
| 4°    | 2684.9 | 2684.9 | 2680.0 | 2683.7 | 2672.5 |
| 5°    | 2661.3 | 2660.0 | 2656.3 | 2658.8 | 2648.8 |
| 6°    | 2636.3 | 2635.1 | 2628.9 | 2628.9 | 2621.4 |
| 7°    | 2617.6 | 2608.9 | 2603.9 | 2602.7 | 2595.2 |
| 8°    | 2587.7 | 2585.2 | 2575.3 | 2575.3 | 2570.3 |
| 9°    | 2557.8 | 2555.3 | 2544.1 | 2546.6 | 2542.8 |
| 10°   | 2527.9 | 2519.2 | 2510.4 | 2511.7 | 2511.7 |
| 11°   | 2488.0 | 2480.5 | 2468.1 | 2473.0 | 2475.5 |
| 12°   | 2440.6 | 2431.9 | 2420.7 | 2430.7 | 2429.4 |
| 13°   | 2388.3 | 2380.8 | 2372.1 | 2379.6 | 2377.1 |
| 14°   | 2333.4 | 2322.2 | 2314.7 | 2319.7 | 2317.2 |
| 15°   | 2276.1 | 2261.1 | 2254.9 | 2254.9 | 2252.4 |
| 17.5° | 2115.3 | 2106.6 | 2100.3 | 2096.6 | 2105.3 |
| 20°   | 1978.2 | 1970.7 | 1957.0 | 1960.7 | 1967.0 |
| 22.5° | 1806.2 | 1804.9 | 1797.4 | 1791.2 | 1798.7 |
| 25°   | 1499.5 | 1536.9 | 1543.2 | 1525.7 | 1487.1 |
| 27.5° | 1089.4 | 1176.7 | 1207.9 | 1166.7 | 1095.7 |
| 30°   | 766.6  | 807.7  | 858.8  | 777.8  | 769.1  |
| 32.5° | 462.4  | 473.7  | 521.0  | 464.9  | 452.5  |
| 35°   | 236.8  | 245.6  | 276.7  | 236.8  | 223.1  |
| 37.5° | 110.9  | 115.9  | 128.4  | 110.9  | 103.5  |
| 40°   | 54.8   | 61.1   | 68.6   | 57.3   | 52.4   |
| 42.5° | 23.7   | 31.2   | 39.9   | 29.9   | 21.2   |
| 45°   | 6.2    | 12.5   | 22.4   | 12.5   | 6.2    |
| 47.5° | 3.7    | 5.0    | 12.5   | 5.0    | 3.7    |
| 50°   | 3.7    | 3.7    | 6.2    | 3.7    | 3.7    |
| 52.5° | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 55°   | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 57.5° | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 60°   | 2.5    | 3.7    | 2.5    | 3.7    | 2.5    |
| 62.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 65°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 67.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 70°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 72.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 75°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 77.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 80°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 82.5° | 0.0    | 1.2    | 0.0    | 1.2    | 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)