

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: P1309288

Luminaire Tested: LDSQA3D13R459030DE010 3LSQCDR1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309288  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-32)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R459030DE010 3LSQCDR1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , 3LSQCDR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

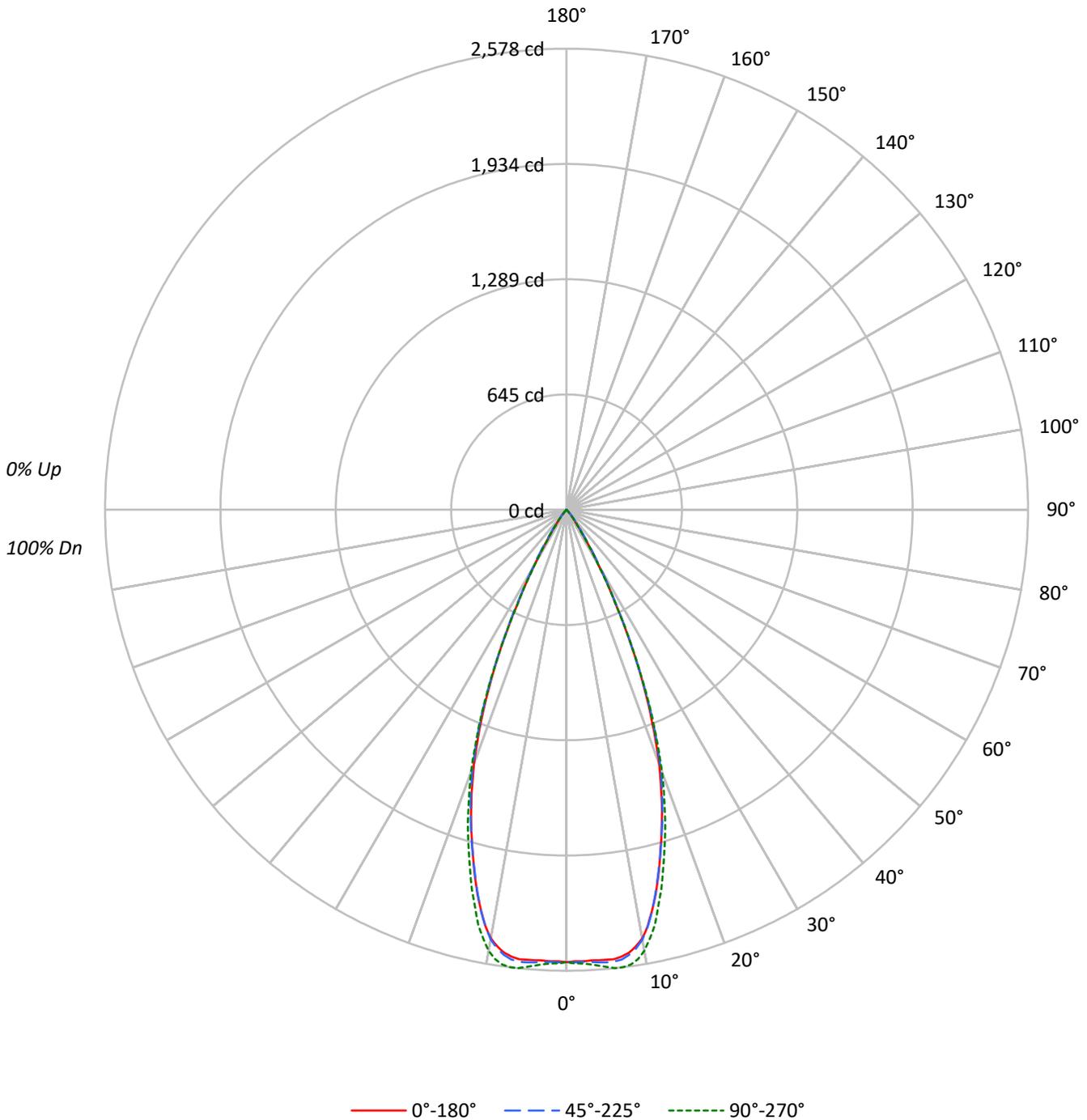
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1308.0 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.74 / 0.67  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 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  | 95  |
| 2   | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 99  | 101 | 99  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 92  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 97  | 93  | 91  | 94  | 92  | 89  | 92  | 90  | 88  | 88  | 88  | 87  |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  | 90  | 87  | 85  | 89  | 86  | 84  | 84  | 84  | 83  |
| 5   | 98  | 91  | 86  | 83  | 96  | 90  | 86  | 82  | 88  | 85  | 82  | 87  | 83  | 81  | 85  | 82  | 80  | 80  | 80  | 79  |
| 6   | 94  | 87  | 82  | 78  | 93  | 86  | 81  | 78  | 85  | 81  | 78  | 83  | 80  | 77  | 82  | 79  | 77  | 77  | 77  | 75  |
| 7   | 91  | 83  | 78  | 75  | 89  | 82  | 78  | 74  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 73  | 73  | 72  |
| 8   | 87  | 79  | 75  | 71  | 86  | 79  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 76  | 73  | 70  | 70  | 70  | 69  |
| 9   | 84  | 76  | 71  | 68  | 83  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 68  | 73  | 70  | 67  | 67  | 67  | 66  |
| 10  | 81  | 73  | 68  | 65  | 80  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 71  | 67  | 65  | 65  | 65  | 64  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 435706 | 435706 | 435706 |
| 5°  | 436696 | 439220 | 443594 |
| 10° | 425762 | 426618 | 437828 |
| 15° | 359199 | 359377 | 371163 |
| 20° | 277278 | 281200 | 285836 |
| 25° | 172012 | 172202 | 173304 |
| 30° | 70955  | 75410  | 69802  |
| 35° | 22076  | 26974  | 21256  |
| 40° | 6767   | 9398   | 6340   |
| 45° | 463    | 3556   | 463    |
| 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°    | 240.8  | 18.4      |
| 10°-20°   | 559.8  | 42.8      |
| 20°-30°   | 410.7  | 31.4      |
| 30°-40°   | 88.3   | 6.7       |
| 40°-50°   | 8.4    | 0.6       |
| 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°    | 1211.3 | 92.6      |
| 0°-40°    | 1299.6 | 99.4      |
| 0°-60°    | 1308.0 | 100.0     |
| 0°-90°    | 1308.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1308.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2530 | 2530  | 2530 | 2530  | 2530 |      |
| 5°  | 2526 | 2533  | 2541 | 2558  | 2566 | 239  |
| 15° | 2015 | 2011  | 2016 | 2048  | 2082 | 555  |
| 25° | 905  | 902   | 906  | 906   | 912  | 406  |
| 35° | 105  | 113   | 128  | 110   | 101  | 83   |
| 45° | 2    | 6     | 15   | 6     | 2    | 5    |
| 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°    | 2529.9 | 2529.9 | 2529.9 | 2529.9 | 2529.9 |
| 1°    | 2525.0 | 2530.9 | 2530.9 | 2534.8 | 2536.7 |
| 2°    | 2527.0 | 2530.9 | 2529.9 | 2536.7 | 2539.6 |
| 3°    | 2524.1 | 2530.9 | 2532.8 | 2540.6 | 2545.5 |
| 4°    | 2525.0 | 2530.9 | 2536.7 | 2548.4 | 2555.2 |
| 5°    | 2526.0 | 2532.8 | 2540.6 | 2558.1 | 2565.9 |
| 6°    | 2527.0 | 2531.8 | 2540.6 | 2563.0 | 2577.5 |
| 7°    | 2517.3 | 2524.1 | 2533.8 | 2562.0 | 2577.5 |
| 8°    | 2501.7 | 2505.6 | 2513.4 | 2550.3 | 2568.8 |
| 9°    | 2472.5 | 2471.6 | 2483.2 | 2524.1 | 2545.5 |
| 10°   | 2434.6 | 2422.9 | 2439.5 | 2480.3 | 2503.6 |
| 11°   | 2373.4 | 2360.7 | 2375.3 | 2419.1 | 2441.4 |
| 12°   | 2293.6 | 2293.6 | 2296.6 | 2335.4 | 2374.3 |
| 13°   | 2209.0 | 2199.3 | 2205.2 | 2248.9 | 2276.1 |
| 14°   | 2115.7 | 2106.0 | 2111.8 | 2144.9 | 2187.7 |
| 15°   | 2014.6 | 2010.7 | 2015.6 | 2047.6 | 2081.7 |
| 17.5° | 1774.4 | 1765.7 | 1783.2 | 1815.3 | 1832.8 |
| 20°   | 1512.9 | 1527.5 | 1534.3 | 1554.7 | 1559.6 |
| 22.5° | 1212.4 | 1228.0 | 1237.7 | 1240.6 | 1243.6 |
| 25°   | 905.2  | 902.3  | 906.2  | 906.2  | 912.0  |
| 27.5° | 595.0  | 595.0  | 605.7  | 598.9  | 592.1  |
| 30°   | 356.8  | 371.4  | 379.2  | 366.6  | 351.0  |
| 32.5° | 194.5  | 209.0  | 221.7  | 203.2  | 189.6  |
| 35°   | 105.0  | 112.8  | 128.3  | 109.9  | 101.1  |
| 37.5° | 57.4   | 64.2   | 73.9   | 62.2   | 57.4   |
| 40°   | 30.1   | 36.9   | 41.8   | 36.9   | 28.2   |
| 42.5° | 9.7    | 18.5   | 24.3   | 18.5   | 8.8    |
| 45°   | 1.9    | 5.8    | 14.6   | 5.8    | 1.9    |
| 47.5° | 0.0    | 1.0    | 6.8    | 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)