

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: P1314691

Luminaire Tested: LDSQA3D13R459730DE010 3LSQCDR1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314691  
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: LDSQA3D13R459730DE010 3LSQCDR1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , 3LSQCDR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

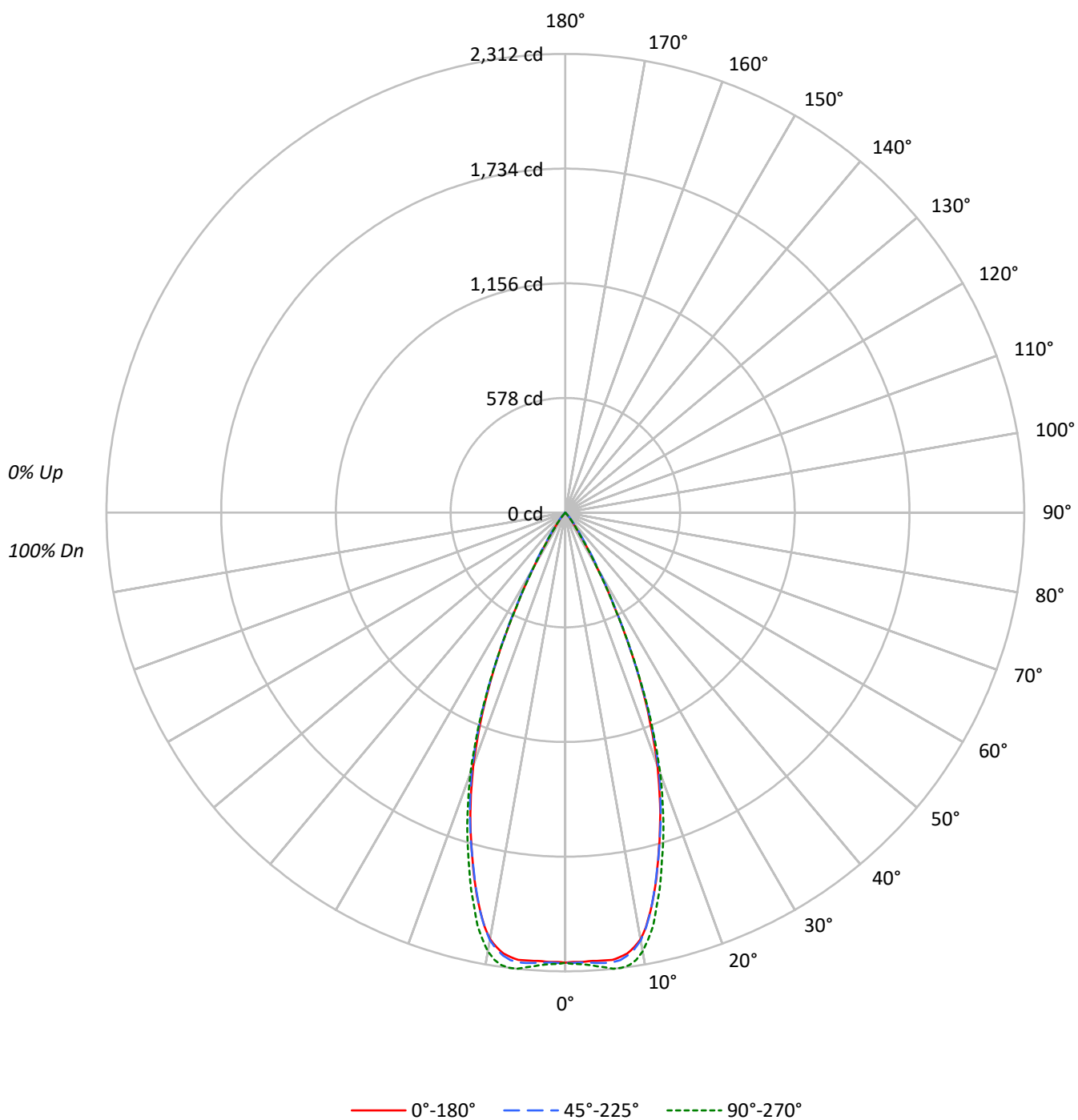
Lumens per Lamp: N/A  
Luminaire Lumens: 1173.0 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.74 / 0.67  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |     |     |     | 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  | 98  | 95  |
| 2   | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 99  | 101 | 99  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 92  | 94  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 97  | 93  | 91  | 94  | 92  | 89  | 92  | 90  | 88  | 88  | 90  | 87  |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  | 90  | 87  | 85  | 89  | 86  | 84  | 84  | 86  | 83  |
| 5   | 98  | 91  | 86  | 83  | 96  | 90  | 86  | 82  | 88  | 85  | 82  | 87  | 83  | 81  | 85  | 82  | 80  | 80  | 82  | 79  |
| 6   | 94  | 87  | 82  | 78  | 93  | 86  | 81  | 78  | 85  | 81  | 78  | 83  | 80  | 77  | 82  | 79  | 77  | 77  | 79  | 75  |
| 7   | 91  | 83  | 78  | 75  | 89  | 82  | 78  | 74  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 73  | 76  | 72  |
| 8   | 87  | 79  | 75  | 71  | 86  | 79  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 76  | 73  | 70  | 70  | 73  | 69  |
| 9   | 84  | 76  | 71  | 68  | 83  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 68  | 73  | 70  | 67  | 67  | 70  | 66  |
| 10  | 81  | 73  | 68  | 65  | 80  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 71  | 67  | 65  | 65  | 67  | 64  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 390739 | 390739 | 390739 |
| 5°  | 391626 | 393891 | 397798 |
| 10° | 381814 | 382584 | 392639 |
| 15° | 322131 | 322274 | 332847 |
| 20° | 248650 | 252169 | 256329 |
| 25° | 154264 | 154416 | 155423 |
| 30° | 63637  | 67634  | 62603  |
| 35° | 19805  | 24199  | 19069  |
| 40° | 6070   | 8431   | 5688   |
| 45° | 414    | 3191   | 414    |
| 50° | 0      | 455    | 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: 3191 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 215.9  | 18.4      |
| 10°-20°   | 502.1  | 42.8      |
| 20°-30°   | 368.3  | 31.4      |
| 30°-40°   | 79.1   | 6.7       |
| 40°-50°   | 7.5    | 0.6       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 1086.3 | 92.6      |
| 0°-40°    | 1165.4 | 99.4      |
| 0°-60°    | 1173.0 | 100.0     |
| 0°-90°    | 1173.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1173.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2269 | 2269  | 2269 | 2269  | 2269 |      |
| 5°  | 2265 | 2271  | 2278 | 2294  | 2301 | 214  |
| 15° | 1807 | 1803  | 1808 | 1836  | 1867 | 497  |
| 25° | 812  | 809   | 813  | 813   | 818  | 364  |
| 35° | 94   | 101   | 115  | 98    | 91   | 74   |
| 45° | 2    | 5     | 13   | 5     | 2    | 4    |
| 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    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2268.8 | 2268.8 | 2268.8 | 2268.8 | 2268.8 |
| 1°    | 2264.4 | 2269.7 | 2269.7 | 2273.1 | 2274.9 |
| 2°    | 2266.2 | 2269.7 | 2268.8 | 2274.9 | 2277.5 |
| 3°    | 2263.6 | 2269.7 | 2271.4 | 2278.4 | 2282.7 |
| 4°    | 2264.4 | 2269.7 | 2274.9 | 2285.4 | 2291.5 |
| 5°    | 2265.3 | 2271.4 | 2278.4 | 2294.1 | 2301.0 |
| 6°    | 2266.2 | 2270.5 | 2278.4 | 2298.4 | 2311.5 |
| 7°    | 2257.5 | 2263.6 | 2272.3 | 2297.6 | 2311.5 |
| 8°    | 2243.5 | 2247.0 | 2254.0 | 2287.1 | 2303.7 |
| 9°    | 2217.3 | 2216.5 | 2226.9 | 2263.6 | 2282.7 |
| 10°   | 2183.3 | 2172.9 | 2187.7 | 2224.3 | 2245.2 |
| 11°   | 2128.4 | 2117.1 | 2130.1 | 2169.4 | 2189.4 |
| 12°   | 2056.9 | 2056.9 | 2059.5 | 2094.4 | 2129.3 |
| 13°   | 1981.0 | 1972.3 | 1977.6 | 2016.8 | 2041.2 |
| 14°   | 1897.3 | 1888.6 | 1893.9 | 1923.5 | 1961.9 |
| 15°   | 1806.7 | 1803.2 | 1807.5 | 1836.3 | 1866.8 |
| 17.5° | 1591.3 | 1583.4 | 1599.1 | 1627.9 | 1643.6 |
| 20°   | 1356.7 | 1369.8 | 1375.9 | 1394.2 | 1398.6 |
| 22.5° | 1087.3 | 1101.3 | 1110.0 | 1112.6 | 1115.2 |
| 25°   | 811.8  | 809.2  | 812.6  | 812.6  | 817.9  |
| 27.5° | 533.6  | 533.6  | 543.2  | 537.1  | 531.0  |
| 30°   | 320.0  | 333.1  | 340.1  | 328.7  | 314.8  |
| 32.5° | 174.4  | 187.5  | 198.8  | 182.2  | 170.0  |
| 35°   | 94.2   | 101.1  | 115.1  | 98.5   | 90.7   |
| 37.5° | 51.4   | 57.5   | 66.3   | 55.8   | 51.4   |
| 40°   | 27.0   | 33.1   | 37.5   | 33.1   | 25.3   |
| 42.5° | 8.7    | 16.6   | 21.8   | 16.6   | 7.8    |
| 45°   | 1.7    | 5.2    | 13.1   | 5.2    | 1.7    |
| 47.5° | 0.0    | 0.9    | 6.1    | 0.9    | 0.0    |
| 50°   | 0.0    | 0.0    | 1.7    | 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)