

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: P1311452

Luminaire Tested: LDSQA3D13R209040DE010 3LSQPHRL1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311452  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R209040DE010 3LSQPHRL1MB  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , 3LSQPHRL1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

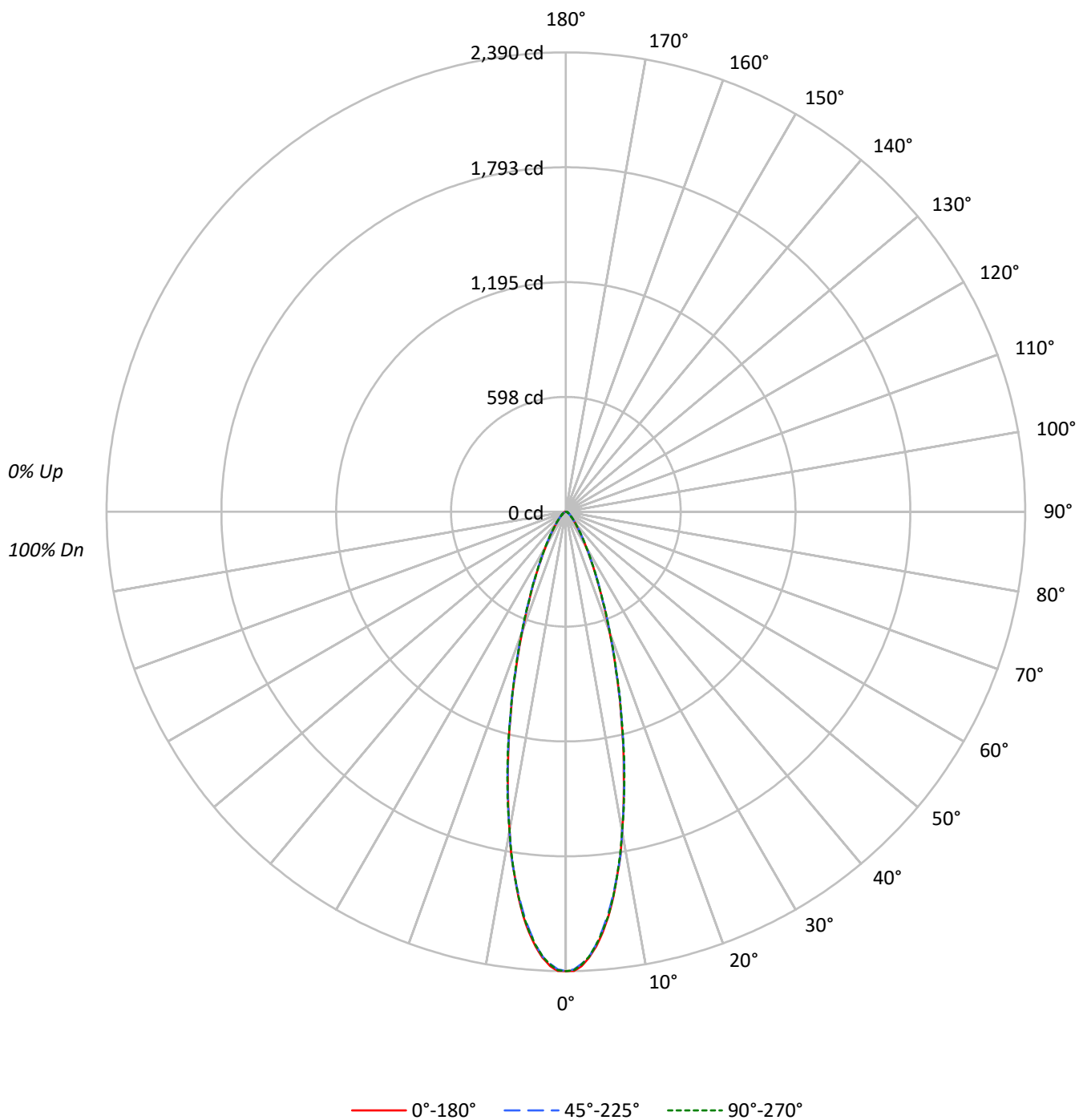
Lumens per Lamp: N/A  
Luminaire Lumens: 840.0 lumens  
Efficiency: N/A  
Efficacy: 57.5 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |
| 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 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 96  | 96  | 94  |
| 2   | 109 | 104 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 97  | 94  | 96  | 94  | 92  | 94  | 92  | 90  | 90  | 90  | 89  |
| 3   | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 91  | 88  | 92  | 89  | 87  | 90  | 87  | 85  | 85  | 85  | 84  |
| 4   | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 84  | 90  | 86  | 83  | 88  | 84  | 82  | 86  | 83  | 81  | 81  | 81  | 79  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 82  | 79  | 86  | 81  | 78  | 84  | 80  | 77  | 82  | 79  | 77  | 77  | 77  | 75  |
| 6   | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 77  | 74  | 80  | 77  | 74  | 79  | 76  | 73  | 73  | 73  | 72  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 76  | 73  | 70  | 70  | 70  | 69  |
| 8   | 85  | 77  | 72  | 68  | 84  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 67  | 73  | 70  | 67  | 67  | 67  | 66  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 71  | 67  | 64  | 64  | 64  | 63  |
| 10  | 79  | 71  | 66  | 62  | 78  | 70  | 66  | 62  | 70  | 65  | 62  | 69  | 65  | 62  | 68  | 65  | 62  | 62  | 62  | 61  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 411664 | 411664 | 411664 |
| 5°  | 379784 | 377606 | 378868 |
| 10° | 294707 | 295074 | 295074 |
| 15° | 199195 | 200122 | 200122 |
| 20° | 120980 | 122501 | 123088 |
| 25° | 70956  | 71963  | 71754  |
| 30° | 41404  | 42239  | 42438  |
| 35° | 25292  | 25944  | 25944  |
| 40° | 16457  | 16704  | 16929  |
| 45° | 11472  | 11715  | 11983  |
| 50° | 8413   | 8681   | 8681   |
| 55° | 6606   | 6906   | 6906   |
| 60° | 5752   | 5752   | 6131   |
| 65° | 5135   | 5135   | 5542   |
| 70° | 4733   | 4733   | 4733   |
| 75° | 4192   | 4192   | 4192   |
| 80° | 3075   | 3075   | 4166   |
| 85° | 1976   | 1976   | 4150   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 11983 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 192.7  | 22.9      |
| 10°-20°   | 308.7  | 36.7      |
| 20°-30°   | 178.7  | 21.3      |
| 30°-40°   | 80.1   | 9.5       |
| 40°-50°   | 38.0   | 4.5       |
| 50°-60°   | 20.8   | 2.5       |
| 60°-70°   | 12.6   | 1.5       |
| 70°-80°   | 6.8    | 0.8       |
| 80°-90°   | 1.5    | 0.2       |
| 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°    | 680.2  | 81.0      |
| 0°-40°    | 760.3  | 90.5      |
| 0°-60°    | 819.1  | 97.5      |
| 0°-90°    | 840.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 840.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2390 | 2390  | 2390 | 2390  | 2390 |      |
| 5°  | 2197 | 2189  | 2184 | 2188  | 2192 | 193  |
| 15° | 1117 | 1117  | 1122 | 1117  | 1122 | 308  |
| 25° | 373  | 373   | 379  | 376   | 378  | 177  |
| 35° | 120  | 121   | 123  | 124   | 123  | 78   |
| 45° | 47   | 47    | 48   | 48    | 49   | 37   |
| 55° | 22   | 22    | 23   | 23    | 23   | 20   |
| 65° | 13   | 13    | 13   | 13    | 14   | 13   |
| 75° | 6    | 6     | 6    | 6     | 6    | 7    |
| 85° | 1    | 1     | 1    | 1     | 2    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2390.3 | 2390.3 | 2390.3 | 2390.3 | 2390.3 |
| 1°    | 2389.2 | 2383.0 | 2380.9 | 2378.8 | 2385.0 |
| 2°    | 2365.2 | 2357.9 | 2353.7 | 2355.8 | 2356.8 |
| 3°    | 2322.3 | 2318.1 | 2318.1 | 2315.0 | 2317.1 |
| 4°    | 2266.8 | 2258.5 | 2258.5 | 2259.5 | 2259.5 |
| 5°    | 2196.8 | 2189.4 | 2184.2 | 2188.4 | 2191.5 |
| 6°    | 2118.3 | 2108.9 | 2104.7 | 2105.7 | 2113.1 |
| 7°    | 2022.1 | 2009.5 | 2011.6 | 2016.8 | 2016.8 |
| 8°    | 1913.3 | 1912.2 | 1914.3 | 1912.2 | 1914.3 |
| 9°    | 1812.8 | 1798.2 | 1810.8 | 1800.3 | 1805.5 |
| 10°   | 1685.2 | 1684.2 | 1687.3 | 1690.5 | 1687.3 |
| 12.5° | 1394.4 | 1399.6 | 1401.7 | 1397.6 | 1407.0 |
| 15°   | 1117.2 | 1117.2 | 1122.4 | 1117.2 | 1122.4 |
| 17.5° | 869.3  | 868.2  | 872.4  | 868.2  | 874.5  |
| 20°   | 660.1  | 667.4  | 668.4  | 668.4  | 671.6  |
| 22.5° | 497.9  | 497.9  | 502.1  | 503.2  | 501.1  |
| 25°   | 373.4  | 373.4  | 378.7  | 375.5  | 377.6  |
| 27.5° | 276.2  | 278.3  | 282.4  | 284.5  | 284.5  |
| 30°   | 208.2  | 209.2  | 212.4  | 213.4  | 213.4  |
| 32.5° | 156.9  | 159.0  | 161.1  | 162.1  | 163.2  |
| 35°   | 120.3  | 121.3  | 123.4  | 124.5  | 123.4  |
| 37.5° | 92.1   | 93.1   | 95.2   | 96.2   | 96.2   |
| 40°   | 73.2   | 73.2   | 74.3   | 75.3   | 75.3   |
| 42.5° | 57.5   | 58.6   | 58.6   | 59.6   | 59.6   |
| 45°   | 47.1   | 47.1   | 48.1   | 48.1   | 49.2   |
| 47.5° | 37.7   | 37.7   | 38.7   | 39.8   | 39.8   |
| 50°   | 31.4   | 31.4   | 32.4   | 32.4   | 32.4   |
| 52.5° | 26.2   | 26.2   | 27.2   | 27.2   | 27.2   |
| 55°   | 22.0   | 22.0   | 23.0   | 23.0   | 23.0   |
| 57.5° | 18.8   | 18.8   | 19.9   | 19.9   | 19.9   |
| 60°   | 16.7   | 16.7   | 16.7   | 16.7   | 17.8   |
| 62.5° | 14.6   | 14.6   | 14.6   | 14.6   | 14.6   |
| 65°   | 12.6   | 12.6   | 12.6   | 12.6   | 13.6   |
| 67.5° | 10.5   | 10.5   | 10.5   | 10.5   | 11.5   |
| 70°   | 9.4    | 9.4    | 9.4    | 9.4    | 9.4    |
| 72.5° | 7.3    | 7.3    | 7.3    | 8.4    | 8.4    |
| 75°   | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    |
| 77.5° | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    |
| 80°   | 3.1    | 3.1    | 3.1    | 4.2    | 4.2    |
| 82.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 85°   | 1.0    | 1.0    | 1.0    | 1.0    | 2.1    |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)