

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: P1313780

Luminaire Tested: LDSQA3D17R159727DE010 3LSQPHRL1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313780  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R159727DE010 3LSQPHRL1MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , 3LSQPHRL1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

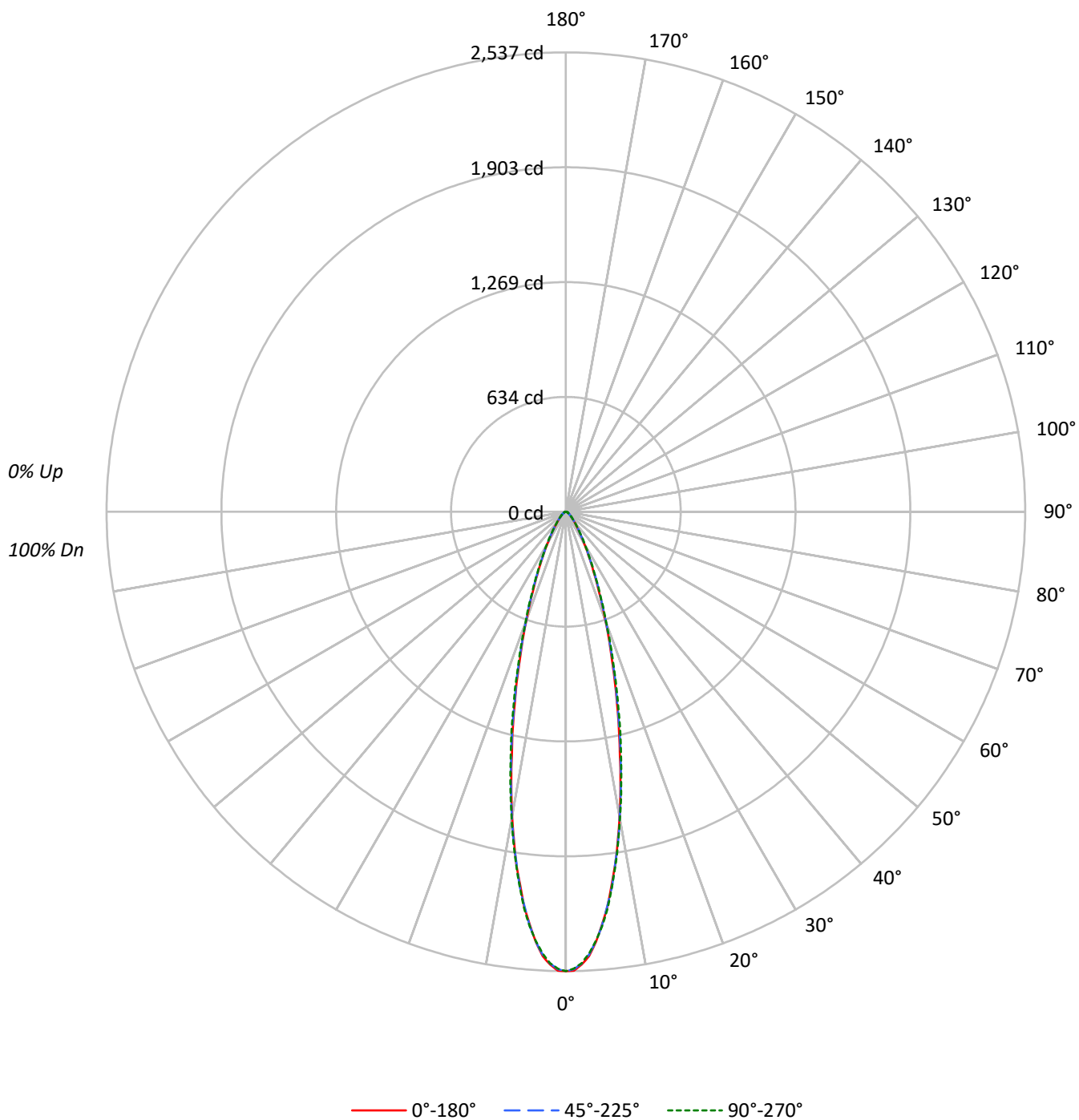
Lumens per Lamp: N/A  
Luminaire Lumens: 839.0 lumens  
Efficiency: N/A  
Efficacy: 39.6 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.46 / 0.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 |  | 101 | 100 | 99  |  | 98  |
| 2   | 109 | 104 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 97  | 94  |  | 97  | 94  | 92  |  | 94  |
| 3   | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 91  | 88  |  | 92  | 89  | 87  |  | 90  |
| 4   | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 84  | 90  | 86  | 83  |  | 88  | 85  | 82  |  | 86  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 83  | 79  | 86  | 82  | 78  |  | 84  | 80  | 78  |  | 83  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 78  | 75  | 82  | 78  | 74  |  | 81  | 77  | 74  |  | 79  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 79  | 74  | 71  |  | 77  | 74  | 71  |  | 76  |
| 8   | 85  | 77  | 72  | 68  | 84  | 76  | 72  | 68  | 75  | 71  | 68  |  | 74  | 70  | 68  |  | 74  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 69  | 65  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 63  | 78  | 71  | 66  | 63  | 70  | 66  | 63  |  | 69  | 65  | 62  |  | 69  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 436946 | 436946 | 436946 |
| 5°  | 395775 | 396519 | 397072 |
| 10° | 298799 | 299551 | 301072 |
| 15° | 193810 | 195932 | 199765 |
| 20° | 116692 | 118066 | 119661 |
| 25° | 68163  | 69607  | 70633  |
| 30° | 40071  | 41344  | 42000  |
| 35° | 24683  | 25587  | 26049  |
| 40° | 16232  | 16704  | 16951  |
| 45° | 11277  | 11545  | 11813  |
| 50° | 8359   | 8654   | 8949   |
| 55° | 6786   | 7116   | 7116   |
| 60° | 5924   | 5924   | 5924   |
| 65° | 5257   | 5257   | 5257   |
| 70° | 4330   | 4884   | 4884   |
| 75° | 4325   | 4325   | 4325   |
| 80° | 3174   | 4265   | 4265   |
| 85° | 2174   | 2174   | 2174   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 11813 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 199.8  | 23.8      |
| 10°-20°   | 305.6  | 36.4      |
| 20°-30°   | 173.7  | 20.7      |
| 30°-40°   | 79.2   | 9.4       |
| 40°-50°   | 38.0   | 4.5       |
| 50°-60°   | 21.2   | 2.5       |
| 60°-70°   | 13.0   | 1.5       |
| 70°-80°   | 6.9    | 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°    | 679.1  | 80.9      |
| 0°-40°    | 758.3  | 90.4      |
| 0°-60°    | 817.6  | 97.4      |
| 0°-90°    | 839.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 839.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2537 | 2537  | 2537 | 2537  | 2537 |      |
| 5°  | 2289 | 2288  | 2294 | 2294  | 2297 | 200  |
| 15° | 1087 | 1092  | 1099 | 1114  | 1120 | 302  |
| 25° | 359  | 359   | 366  | 370   | 372  | 170  |
| 35° | 117  | 120   | 122  | 124   | 124  | 77   |
| 45° | 46   | 46    | 47   | 48    | 48   | 37   |
| 55° | 23   | 23    | 24   | 24    | 24   | 21   |
| 65° | 13   | 13    | 13   | 13    | 13   | 13   |
| 75° | 6    | 6     | 6    | 6     | 6    | 7    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2537.1 | 2537.1 | 2537.1 | 2537.1 | 2537.1 |
| 1°    | 2534.9 | 2528.5 | 2526.3 | 2525.2 | 2523.1 |
| 2°    | 2502.6 | 2497.2 | 2496.1 | 2496.1 | 2495.1 |
| 3°    | 2457.4 | 2447.7 | 2448.7 | 2445.5 | 2442.3 |
| 4°    | 2380.9 | 2376.6 | 2378.7 | 2380.9 | 2376.6 |
| 5°    | 2289.3 | 2288.2 | 2293.6 | 2293.6 | 2296.8 |
| 6°    | 2194.5 | 2193.4 | 2190.2 | 2198.8 | 2203.1 |
| 7°    | 2073.8 | 2080.3 | 2088.9 | 2084.6 | 2087.8 |
| 8°    | 1963.9 | 1956.4 | 1959.6 | 1970.4 | 1971.5 |
| 9°    | 1834.7 | 1829.3 | 1843.3 | 1847.6 | 1848.7 |
| 10°   | 1708.6 | 1714.0 | 1712.9 | 1728.0 | 1721.6 |
| 12.5° | 1380.0 | 1388.7 | 1398.4 | 1404.8 | 1411.3 |
| 15°   | 1087.0 | 1092.4 | 1098.9 | 1113.9 | 1120.4 |
| 17.5° | 836.0  | 842.5  | 848.9  | 861.9  | 864.0  |
| 20°   | 636.7  | 639.9  | 644.2  | 656.1  | 652.9  |
| 22.5° | 476.2  | 481.6  | 485.9  | 491.3  | 494.5  |
| 25°   | 358.7  | 358.7  | 366.3  | 369.5  | 371.7  |
| 27.5° | 267.2  | 269.3  | 274.7  | 279.0  | 277.9  |
| 30°   | 201.5  | 204.7  | 207.9  | 210.1  | 211.2  |
| 32.5° | 155.1  | 155.1  | 158.4  | 161.6  | 162.7  |
| 35°   | 117.4  | 119.6  | 121.7  | 123.9  | 123.9  |
| 37.5° | 91.6   | 92.6   | 94.8   | 95.9   | 95.9   |
| 40°   | 72.2   | 72.2   | 74.3   | 75.4   | 75.4   |
| 42.5° | 57.1   | 58.2   | 59.3   | 60.3   | 60.3   |
| 45°   | 46.3   | 46.3   | 47.4   | 48.5   | 48.5   |
| 47.5° | 37.7   | 37.7   | 38.8   | 39.9   | 39.9   |
| 50°   | 31.2   | 32.3   | 32.3   | 33.4   | 33.4   |
| 52.5° | 26.9   | 26.9   | 26.9   | 28.0   | 28.0   |
| 55°   | 22.6   | 22.6   | 23.7   | 23.7   | 23.7   |
| 57.5° | 19.4   | 19.4   | 19.4   | 20.5   | 20.5   |
| 60°   | 17.2   | 17.2   | 17.2   | 17.2   | 17.2   |
| 62.5° | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   |
| 65°   | 12.9   | 12.9   | 12.9   | 12.9   | 12.9   |
| 67.5° | 10.8   | 10.8   | 10.8   | 11.9   | 11.9   |
| 70°   | 8.6    | 9.7    | 9.7    | 9.7    | 9.7    |
| 72.5° | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    |
| 75°   | 6.5    | 6.5    | 6.5    | 6.5    | 6.5    |
| 77.5° | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    |
| 80°   | 3.2    | 4.3    | 4.3    | 4.3    | 4.3    |
| 82.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 85°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)