

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: P1310216

Luminaire Tested: LDSQA3D09R359035DE010 3LSQPHR1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R359035DE010 3LSQPHR1MW  
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 90CRI , 3LSQPHR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

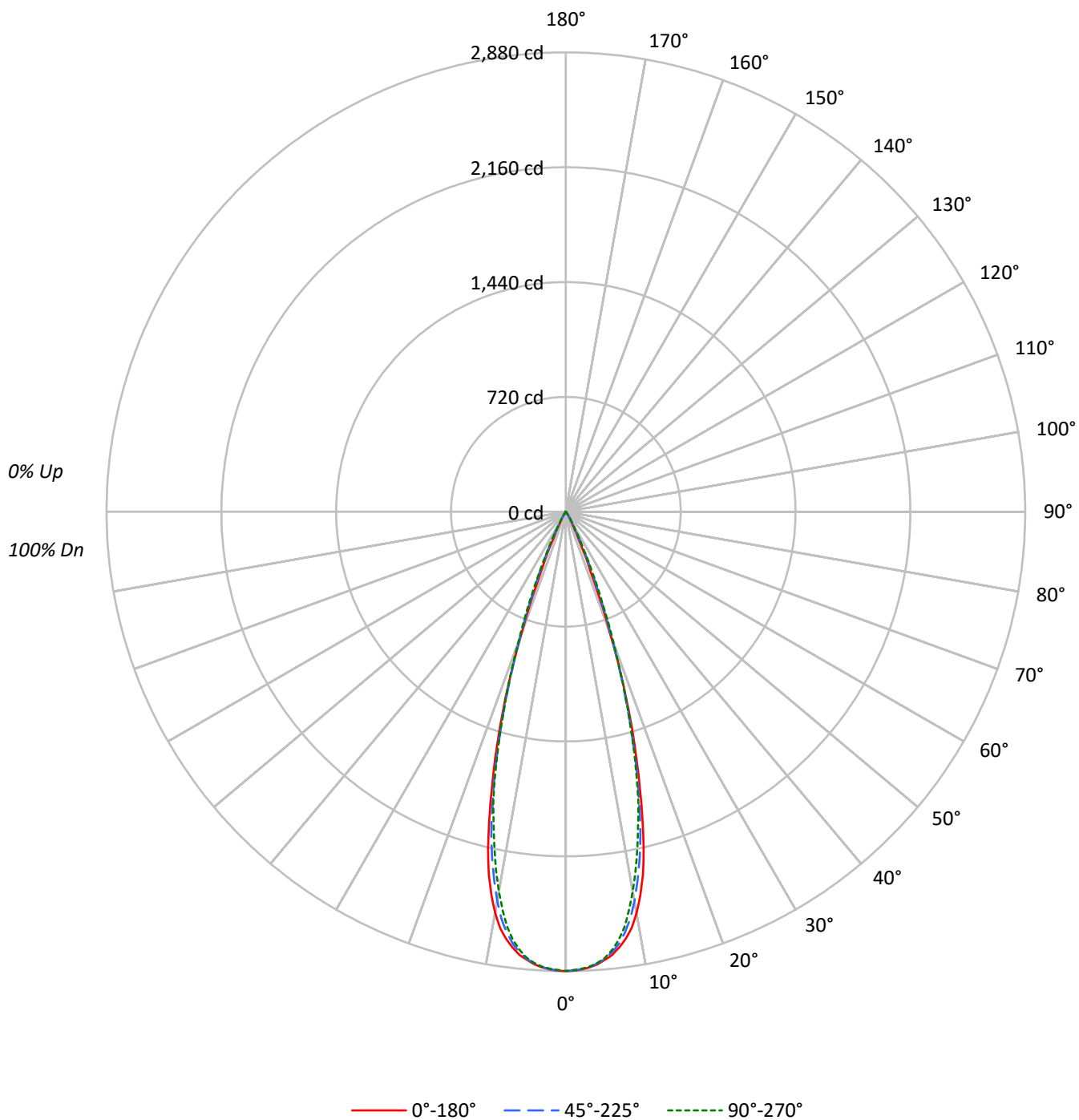
Lumens per Lamp: N/A  
Luminaire Lumens: 874.0 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Spacing Criteria (0/90/45): 0.57 / 0.56 / 0.51  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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   | 115 | 113 | 111 | 109 | 113 | 111 | 109 | 108 | 107 | 106 | 104 |  | 103 | 102 | 101 |  | 100 |
| 2   | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 103 | 101 | 99  |  | 100 | 98  | 97  |  | 97  |
| 3   | 108 | 103 | 100 | 97  | 106 | 102 | 99  | 96  | 99  | 97  | 94  |  | 97  | 95  | 93  |  | 95  |
| 4   | 104 | 99  | 95  | 92  | 103 | 98  | 94  | 92  | 96  | 93  | 91  |  | 94  | 92  | 90  |  | 93  |
| 5   | 101 | 95  | 91  | 88  | 100 | 95  | 91  | 88  | 93  | 90  | 87  |  | 92  | 89  | 87  |  | 90  |
| 6   | 98  | 92  | 88  | 85  | 97  | 91  | 88  | 85  | 90  | 87  | 84  |  | 89  | 86  | 84  |  | 88  |
| 7   | 96  | 89  | 85  | 82  | 94  | 89  | 85  | 82  | 87  | 84  | 81  |  | 86  | 83  | 81  |  | 85  |
| 8   | 93  | 86  | 82  | 79  | 92  | 86  | 82  | 79  | 85  | 81  | 79  |  | 84  | 81  | 79  |  | 83  |
| 9   | 90  | 84  | 80  | 77  | 89  | 83  | 79  | 77  | 82  | 79  | 76  |  | 82  | 79  | 76  |  | 81  |
| 10  | 88  | 81  | 77  | 75  | 87  | 81  | 77  | 74  | 80  | 77  | 74  |  | 80  | 76  | 74  |  | 79  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 495915 | 495915 | 495915 |
| 5°  | 487402 | 486365 | 485327 |
| 10° | 446695 | 433264 | 422736 |
| 15° | 319867 | 309668 | 305906 |
| 20° | 148325 | 153420 | 158808 |
| 25° | 35193  | 50072  | 52219  |
| 30° | 10321  | 11833  | 13324  |
| 35° | 2376   | 3805   | 3490   |
| 40° | 517    | 1012   | 674    |
| 45° | 195    | 195    | 195    |
| 50° | 214    | 0      | 214    |
| 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: 0°

Vertical Angle: 52.5°

Luminance: 226 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 258.5  | 29.6      |
| 10°-20°   | 462.2  | 52.9      |
| 20°-30°   | 139.0  | 15.9      |
| 30°-40°   | 13.3   | 1.5       |
| 40°-50°   | 0.9    | 0.1       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 859.7  | 98.4      |
| 0°-40°    | 873.0  | 99.9      |
| 0°-60°    | 874.0  | 100.0     |
| 0°-90°    | 874.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 874.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2880 | 2880  | 2880 | 2880  | 2880 |      |
| 5°  | 2819 | 2818  | 2813 | 2810  | 2807 | 261  |
| 15° | 1794 | 1780  | 1737 | 1729  | 1716 | 474  |
| 25° | 185  | 204   | 264  | 275   | 275  | 119  |
| 35° | 11   | 15    | 18   | 20    | 17   | 10   |
| 45° | 1    | 1     | 1    | 1     | 1    | 1    |
| 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°    | 2879.5 | 2879.5 | 2879.5 | 2879.5 | 2879.5 |
| 1°    | 2878.0 | 2878.0 | 2876.5 | 2876.5 | 2873.5 |
| 2°    | 2871.2 | 2872.0 | 2869.0 | 2868.2 | 2866.0 |
| 3°    | 2860.7 | 2858.4 | 2858.4 | 2856.9 | 2855.4 |
| 4°    | 2844.1 | 2839.6 | 2838.1 | 2838.9 | 2835.9 |
| 5°    | 2819.3 | 2818.5 | 2813.3 | 2809.5 | 2807.3 |
| 6°    | 2792.2 | 2786.9 | 2775.6 | 2765.9 | 2763.6 |
| 7°    | 2751.5 | 2740.3 | 2730.5 | 2710.1 | 2707.1 |
| 8°    | 2701.9 | 2683.8 | 2662.7 | 2634.1 | 2632.6 |
| 9°    | 2640.9 | 2611.5 | 2582.2 | 2543.8 | 2530.2 |
| 10°   | 2554.3 | 2527.2 | 2477.5 | 2443.6 | 2417.3 |
| 11°   | 2446.7 | 2412.8 | 2354.8 | 2314.2 | 2292.3 |
| 12°   | 2324.7 | 2293.1 | 2225.3 | 2188.4 | 2157.6 |
| 13°   | 2168.1 | 2141.8 | 2078.5 | 2037.9 | 2013.8 |
| 14°   | 1986.7 | 1967.1 | 1906.9 | 1888.8 | 1880.5 |
| 15°   | 1794.0 | 1780.4 | 1736.8 | 1729.2 | 1715.7 |
| 17.5° | 1320.4 | 1297.9 | 1273.0 | 1277.5 | 1282.0 |
| 20°   | 809.3  | 840.9  | 837.1  | 853.7  | 866.5  |
| 22.5° | 403.5  | 444.2  | 491.6  | 520.2  | 534.5  |
| 25°   | 185.2  | 204.0  | 263.5  | 274.8  | 274.8  |
| 27.5° | 93.3   | 97.9   | 124.2  | 126.5  | 132.5  |
| 30°   | 51.9   | 55.7   | 59.5   | 66.2   | 67.0   |
| 32.5° | 26.3   | 30.9   | 32.4   | 36.1   | 34.6   |
| 35°   | 11.3   | 15.1   | 18.1   | 19.6   | 16.6   |
| 37.5° | 5.3    | 6.8    | 9.8    | 9.0    | 6.8    |
| 40°   | 2.3    | 3.0    | 4.5    | 3.8    | 3.0    |
| 42.5° | 1.5    | 1.5    | 2.3    | 1.5    | 1.5    |
| 45°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 47.5° | 0.8    | 0.8    | 0.0    | 0.8    | 0.8    |
| 50°   | 0.8    | 0.0    | 0.0    | 0.0    | 0.8    |
| 52.5° | 0.8    | 0.0    | 0.0    | 0.0    | 0.8    |
| 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)