

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: P1307354

Luminaire Tested: LDSQA3D17R459024DE010 3LSQCDR1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307354  
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: LDSQA3D17R459024DE010 3LSQCDR1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , 3LSQCDR1MB TRIM  
Light Source: -  
Ballast/Driver: -

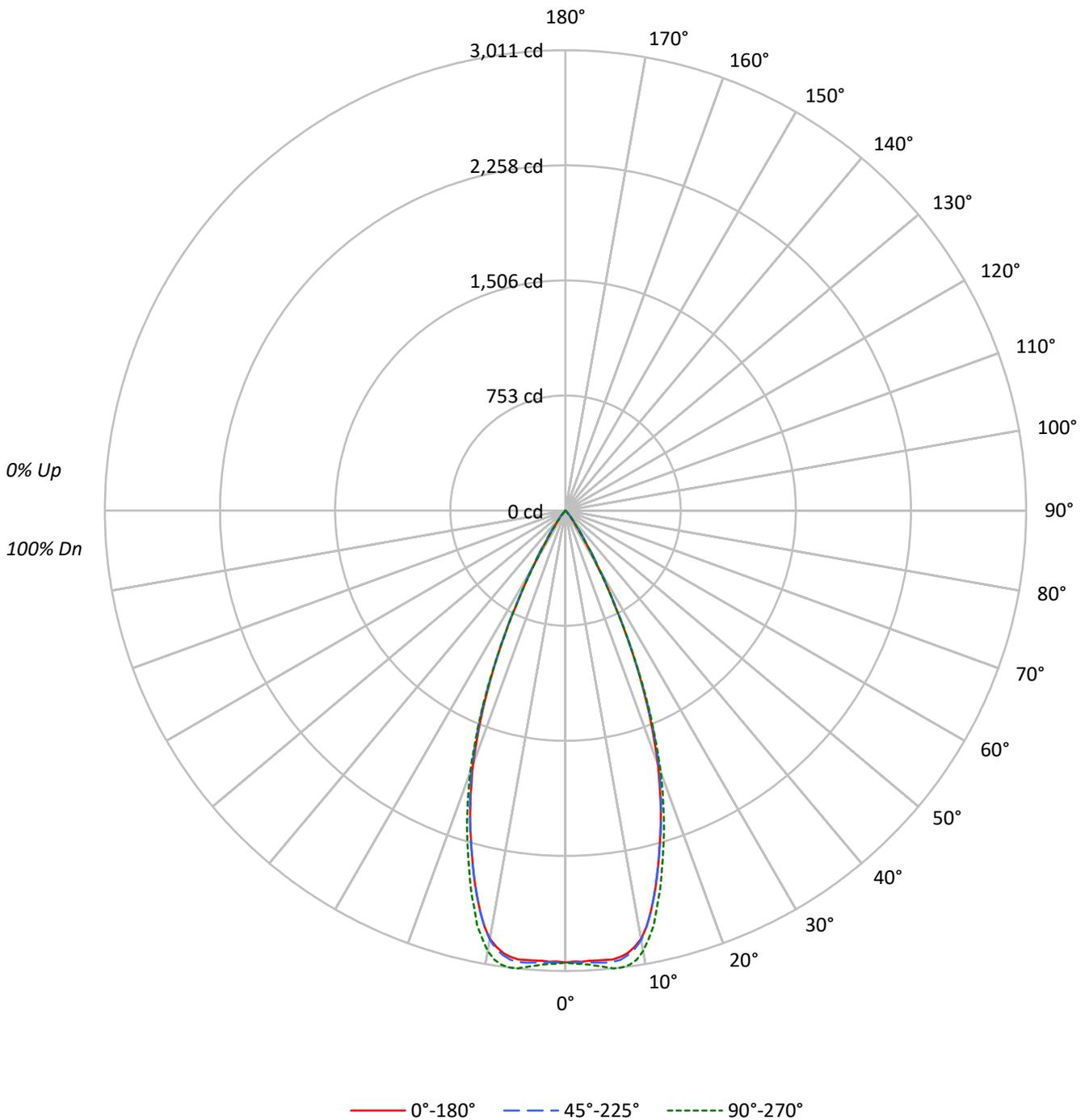
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1528.0 lumens  
Efficiency: N/A  
Efficacy: 72.1 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): 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  |     |     | 0   |     |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 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  | 97  | 95  |
| 2   | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 99  | 101 | 99  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 92  | 92  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 97  | 93  | 91  | 94  | 92  | 89  | 92  | 90  | 88  | 92  | 90  | 88  | 87  |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  | 90  | 87  | 85  | 89  | 86  | 84  | 89  | 86  | 84  | 83  |
| 5   | 98  | 91  | 86  | 83  | 96  | 90  | 86  | 82  | 88  | 85  | 82  | 87  | 83  | 81  | 85  | 82  | 80  | 85  | 82  | 80  | 79  |
| 6   | 94  | 87  | 82  | 78  | 93  | 86  | 81  | 78  | 85  | 81  | 78  | 83  | 80  | 77  | 82  | 79  | 77  | 82  | 79  | 77  | 75  |
| 7   | 91  | 83  | 78  | 75  | 89  | 82  | 78  | 74  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 79  | 76  | 73  | 72  |
| 8   | 87  | 79  | 75  | 71  | 86  | 79  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 76  | 73  | 70  | 76  | 73  | 70  | 69  |
| 9   | 84  | 76  | 71  | 68  | 83  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 68  | 73  | 70  | 67  | 73  | 70  | 67  | 66  |
| 10  | 81  | 73  | 68  | 65  | 80  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 71  | 67  | 65  | 71  | 67  | 65  | 64  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 508987 | 508987 | 508987 |
| 5°  | 510153 | 513092 | 518192 |
| 10° | 497375 | 498371 | 511487 |
| 15° | 419607 | 419820 | 433585 |
| 20° | 323903 | 328485 | 333910 |
| 25° | 200953 | 201162 | 202454 |
| 30° | 82887  | 88097  | 81535  |
| 35° | 25797  | 31516  | 24830  |
| 40° | 7914   | 10971  | 7397   |
| 45° | 560    | 4141   | 560    |
| 50° | 0      | 616    | 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: 4141 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 281.3  | 18.4      |
| 10°-20°   | 654.0  | 42.8      |
| 20°-30°   | 479.7  | 31.4      |
| 30°-40°   | 103.1  | 6.7       |
| 40°-50°   | 9.8    | 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°    | 1415.0 | 92.6      |
| 0°-40°    | 1518.1 | 99.4      |
| 0°-60°    | 1528.0 | 100.0     |
| 0°-90°    | 1528.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1528.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2955 | 2955  | 2955 | 2955  | 2955 |      |
| 5°  | 2951 | 2959  | 2968 | 2988  | 2997 | 279  |
| 15° | 2353 | 2349  | 2355 | 2392  | 2432 | 648  |
| 25° | 1058 | 1054  | 1059 | 1059  | 1065 | 474  |
| 35° | 123  | 132   | 150  | 128   | 118  | 97   |
| 45° | 2    | 7     | 17   | 7     | 2    | 6    |
| 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°    | 2955.4 | 2955.4 | 2955.4 | 2955.4 | 2955.4 |
| 1°    | 2949.7 | 2956.6 | 2956.6 | 2961.1 | 2963.4 |
| 2°    | 2952.0 | 2956.6 | 2955.4 | 2963.4 | 2966.8 |
| 3°    | 2948.6 | 2956.6 | 2958.8 | 2967.9 | 2973.6 |
| 4°    | 2949.7 | 2956.6 | 2963.4 | 2977.0 | 2985.0 |
| 5°    | 2950.9 | 2958.8 | 2967.9 | 2988.4 | 2997.4 |
| 6°    | 2952.0 | 2957.7 | 2967.9 | 2994.0 | 3011.1 |
| 7°    | 2940.7 | 2948.6 | 2960.0 | 2992.9 | 3011.1 |
| 8°    | 2922.5 | 2927.0 | 2936.1 | 2979.3 | 3000.9 |
| 9°    | 2888.4 | 2887.3 | 2900.9 | 2948.6 | 2973.6 |
| 10°   | 2844.1 | 2830.5 | 2849.8 | 2897.5 | 2924.8 |
| 11°   | 2772.6 | 2757.8 | 2774.8 | 2825.9 | 2852.1 |
| 12°   | 2679.4 | 2679.4 | 2682.8 | 2728.3 | 2773.7 |
| 13°   | 2580.6 | 2569.2 | 2576.1 | 2627.2 | 2659.0 |
| 14°   | 2471.6 | 2460.2 | 2467.0 | 2505.6 | 2555.6 |
| 15°   | 2353.4 | 2348.9 | 2354.6 | 2392.0 | 2431.8 |
| 17.5° | 2072.9 | 2062.7 | 2083.1 | 2120.6 | 2141.0 |
| 20°   | 1767.3 | 1784.4 | 1792.3 | 1816.2 | 1821.9 |
| 22.5° | 1416.4 | 1434.5 | 1445.9 | 1449.3 | 1452.7 |
| 25°   | 1057.5 | 1054.0 | 1058.6 | 1058.6 | 1065.4 |
| 27.5° | 695.1  | 695.1  | 707.6  | 699.7  | 691.7  |
| 30°   | 416.8  | 433.9  | 443.0  | 428.2  | 410.0  |
| 32.5° | 227.2  | 244.2  | 259.0  | 237.4  | 221.5  |
| 35°   | 122.7  | 131.8  | 149.9  | 128.3  | 118.1  |
| 37.5° | 67.0   | 75.0   | 86.3   | 72.7   | 67.0   |
| 40°   | 35.2   | 43.2   | 48.8   | 43.2   | 32.9   |
| 42.5° | 11.4   | 21.6   | 28.4   | 21.6   | 10.2   |
| 45°   | 2.3    | 6.8    | 17.0   | 6.8    | 2.3    |
| 47.5° | 0.0    | 1.1    | 8.0    | 1.1    | 0.0    |
| 50°   | 0.0    | 0.0    | 2.3    | 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)