

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: P1308482

Luminaire Tested: LDSQA3D20R509027D010 3LSQCDR1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308482  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R509027D010 3LSQCDR1MMS  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , 3LSQCDR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

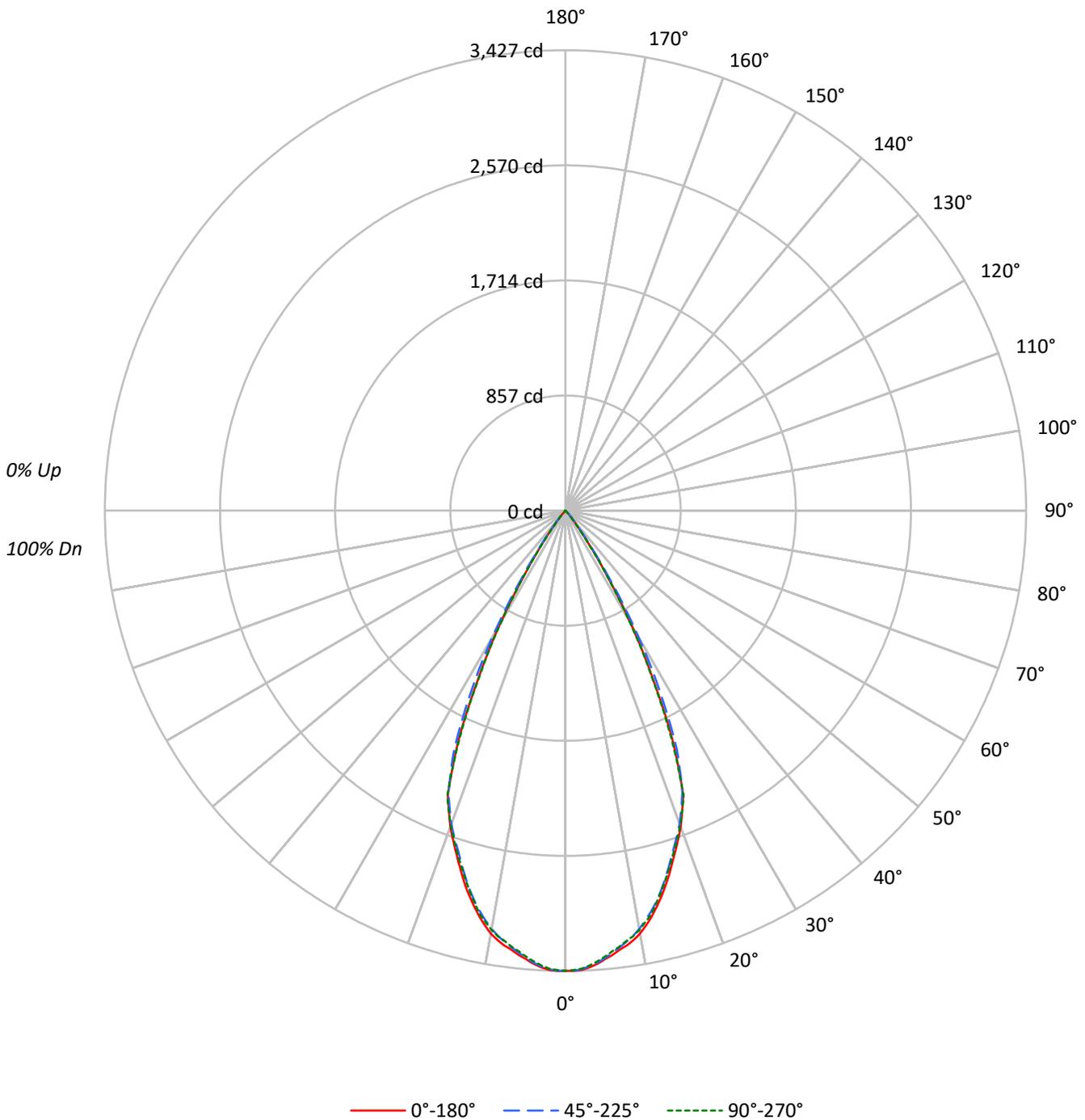
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2206.0 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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  |     |     |     | 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 | 109 | 107 | 112 | 110 | 108 | 106 | 106 | 104 | 102 | 102 | 101 | 99  | 98  | 97  | 97  | 97  | 97  | 97  | 95  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 98  | 95  | 97  | 95  | 93  | 95  | 93  | 91  | 91  | 91  | 91  | 90  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  | 93  | 90  | 88  | 91  | 88  | 86  | 86  | 86  | 86  | 85  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 90  | 87  | 84  | 89  | 85  | 83  | 87  | 84  | 82  | 82  | 82  | 82  | 80  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 77  | 77  | 77  | 76  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 79  | 75  | 82  | 78  | 74  | 81  | 77  | 74  | 79  | 76  | 73  | 73  | 73  | 73  | 72  |
| 7   | 88  | 80  | 75  | 71  | 87  | 79  | 74  | 71  | 78  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 70  | 70  | 70  | 70  | 69  |
| 8   | 85  | 76  | 71  | 67  | 83  | 76  | 71  | 67  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 66  | 66  | 66  | 65  |
| 9   | 81  | 73  | 67  | 64  | 80  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 66  | 63  | 70  | 66  | 63  | 63  | 63  | 63  | 62  |
| 10  | 78  | 69  | 64  | 61  | 77  | 69  | 64  | 61  | 68  | 64  | 60  | 67  | 63  | 60  | 67  | 63  | 60  | 60  | 60  | 60  | 59  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 589983 | 589983 | 589983 |
| 5°  | 579686 | 578061 | 576418 |
| 10° | 559072 | 553004 | 554106 |
| 15° | 514301 | 507828 | 509237 |
| 20° | 459252 | 454908 | 457511 |
| 25° | 357421 | 372414 | 353526 |
| 30° | 193616 | 216207 | 190155 |
| 35° | 61034  | 72661  | 59710  |
| 40° | 13489  | 18795  | 12770  |
| 45° | 390    | 5772   | 390    |
| 50° | 0      | 857    | 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: 5772 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 313.8  | 14.2      |
| 10°-20°   | 797.4  | 36.1      |
| 20°-30°   | 839.9  | 38.1      |
| 30°-40°   | 239.9  | 10.9      |
| 40°-50°   | 14.9   | 0.7       |
| 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°    | 1951.2 | 88.4      |
| 0°-40°    | 2191.1 | 99.3      |
| 0°-60°    | 2206.0 | 100.0     |
| 0°-90°    | 2206.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2206.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3426 | 3426  | 3426 | 3426  | 3426 |      |
| 5°  | 3353 | 3350  | 3344 | 3340  | 3334 | 315  |
| 15° | 2884 | 2866  | 2848 | 2853  | 2856 | 804  |
| 25° | 1881 | 1950  | 1960 | 1938  | 1860 | 823  |
| 35° | 290  | 311   | 346  | 294   | 284  | 226  |
| 45° | 2    | 8     | 24   | 8     | 2    | 9    |
| 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°    | 3425.7 | 3425.7 | 3425.7 | 3425.7 | 3425.7 |
| 1°    | 3427.3 | 3428.9 | 3425.7 | 3428.9 | 3421.0 |
| 2°    | 3422.6 | 3419.4 | 3416.3 | 3417.8 | 3413.1 |
| 3°    | 3405.2 | 3403.6 | 3397.3 | 3398.9 | 3392.6 |
| 4°    | 3383.1 | 3378.4 | 3373.7 | 3370.5 | 3364.2 |
| 5°    | 3353.1 | 3350.0 | 3343.7 | 3340.5 | 3334.2 |
| 6°    | 3327.9 | 3321.6 | 3310.5 | 3307.4 | 3301.1 |
| 7°    | 3294.8 | 3291.6 | 3277.4 | 3274.2 | 3271.1 |
| 8°    | 3269.5 | 3260.0 | 3242.7 | 3244.3 | 3236.4 |
| 9°    | 3236.4 | 3223.7 | 3206.4 | 3206.4 | 3208.0 |
| 10°   | 3196.9 | 3178.0 | 3162.2 | 3166.9 | 3168.5 |
| 11°   | 3144.9 | 3132.2 | 3108.6 | 3119.6 | 3119.6 |
| 12°   | 3088.0 | 3072.3 | 3054.9 | 3064.4 | 3070.7 |
| 13°   | 3021.8 | 3009.1 | 2993.4 | 3002.8 | 2999.7 |
| 14°   | 2957.1 | 2933.4 | 2922.4 | 2935.0 | 2930.2 |
| 15°   | 2884.5 | 2865.6 | 2848.2 | 2852.9 | 2856.1 |
| 17.5° | 2690.4 | 2669.9 | 2657.3 | 2658.8 | 2673.0 |
| 20°   | 2505.8 | 2497.9 | 2482.1 | 2488.4 | 2496.3 |
| 22.5° | 2288.0 | 2291.2 | 2272.2 | 2277.0 | 2295.9 |
| 25°   | 1880.9 | 1950.3 | 1959.8 | 1937.7 | 1860.4 |
| 27.5° | 1393.3 | 1497.5 | 1529.0 | 1478.5 | 1383.9 |
| 30°   | 973.6  | 1002.0 | 1087.2 | 991.0  | 956.2  |
| 32.5° | 571.2  | 613.8  | 659.6  | 593.3  | 569.6  |
| 35°   | 290.3  | 310.9  | 345.6  | 293.5  | 284.0  |
| 37.5° | 134.1  | 143.6  | 157.8  | 134.1  | 126.2  |
| 40°   | 60.0   | 71.0   | 83.6   | 67.9   | 56.8   |
| 42.5° | 18.9   | 33.1   | 44.2   | 30.0   | 17.4   |
| 45°   | 1.6    | 7.9    | 23.7   | 7.9    | 1.6    |
| 47.5° | 0.0    | 1.6    | 9.5    | 1.6    | 0.0    |
| 50°   | 0.0    | 0.0    | 3.2    | 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)