

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: P1309554

Luminaire Tested: LDSQA3D20R309030D010 3LSQPHRL1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309554  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R309030D010 3LSQPHRL1MMS  
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , 3LSQPHRL1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

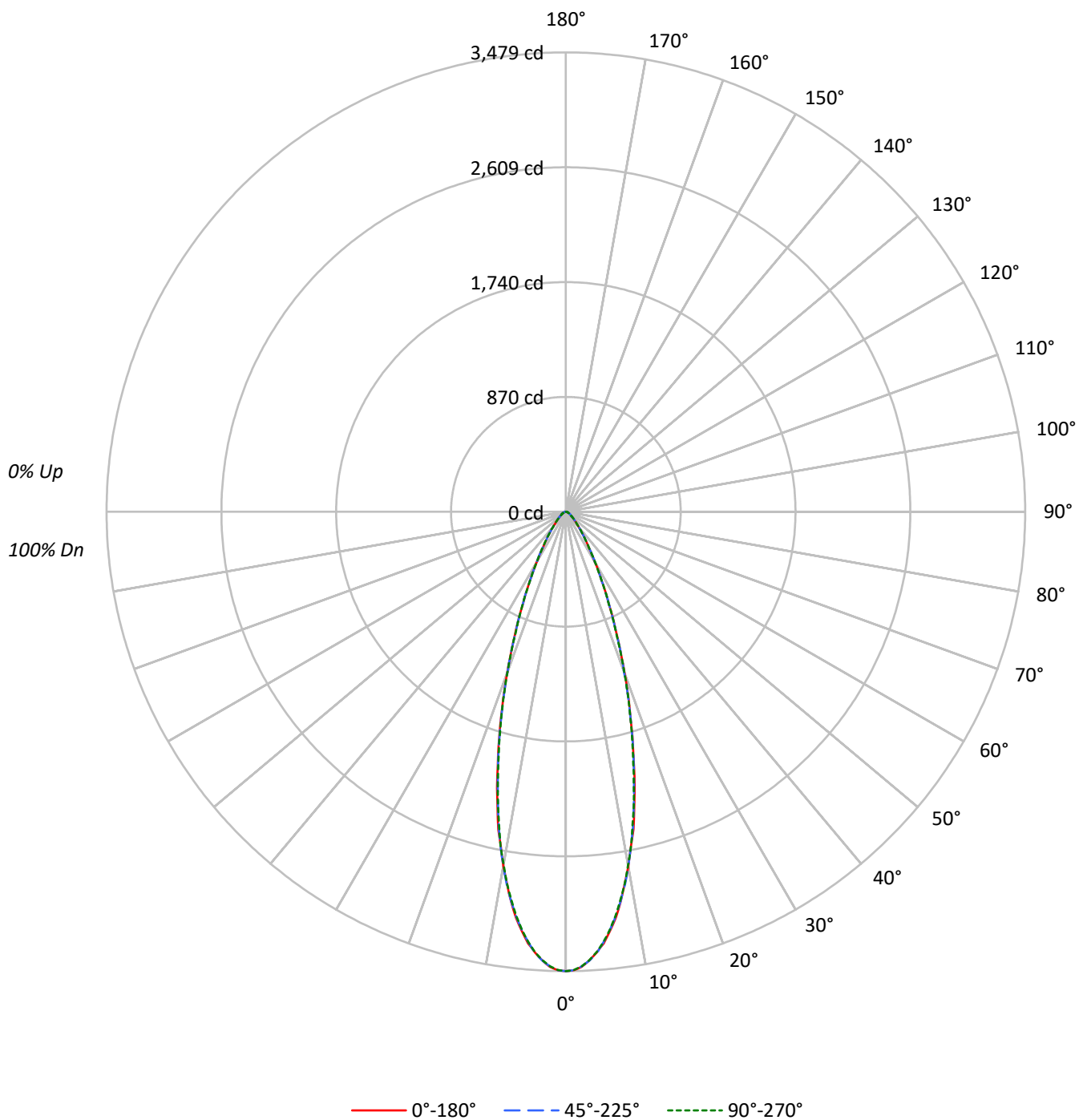
Lumens per Lamp: N/A  
Luminaire Lumens: 1528.0 lumens  
Efficiency: N/A  
Efficacy: 53.1 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.57  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |     |     |
| 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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 114 | 111 | 109 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 |  | 101 | 100 | 98  |  | 98  | 97  | 96  | 94  |
| 2   | 108 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 99  | 96  | 93  |  | 96  | 93  | 91  |  | 93  | 91  | 90  | 88  |
| 3   | 103 | 97  | 93  | 89  | 101 | 96  | 92  | 88  | 93  | 90  | 87  |  | 91  | 88  | 85  |  | 89  | 86  | 84  | 83  |
| 4   | 99  | 92  | 87  | 83  | 97  | 91  | 86  | 82  | 89  | 84  | 81  |  | 87  | 83  | 80  |  | 85  | 82  | 79  | 78  |
| 5   | 95  | 87  | 81  | 77  | 93  | 86  | 81  | 77  | 84  | 80  | 76  |  | 82  | 79  | 76  |  | 81  | 78  | 75  | 74  |
| 6   | 90  | 82  | 77  | 73  | 89  | 82  | 76  | 73  | 80  | 76  | 72  |  | 79  | 75  | 72  |  | 77  | 74  | 71  | 70  |
| 7   | 87  | 78  | 73  | 69  | 86  | 78  | 72  | 69  | 76  | 72  | 68  |  | 75  | 71  | 68  |  | 74  | 71  | 68  | 66  |
| 8   | 83  | 75  | 69  | 66  | 82  | 74  | 69  | 65  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  | 67  | 65  | 63  |
| 9   | 80  | 71  | 66  | 62  | 79  | 71  | 66  | 62  | 70  | 65  | 62  |  | 69  | 65  | 62  |  | 68  | 65  | 62  | 61  |
| 10  | 77  | 68  | 63  | 60  | 76  | 68  | 63  | 60  | 67  | 63  | 59  |  | 66  | 62  | 59  |  | 66  | 62  | 59  | 58  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 599214 | 599214 | 599214 |
| 5°  | 567307 | 565838 | 565544 |
| 10° | 476599 | 476599 | 474815 |
| 15° | 355080 | 354189 | 352067 |
| 20° | 237653 | 236407 | 236719 |
| 25° | 146492 | 146169 | 146815 |
| 30° | 88078  | 88078  | 88416  |
| 35° | 54033  | 54033  | 54390  |
| 40° | 34218  | 34218  | 34960  |
| 45° | 23479  | 23893  | 23893  |
| 50° | 17201  | 17201  | 17201  |
| 55° | 13211  | 13692  | 13692  |
| 60° | 11057  | 11057  | 11642  |
| 65° | 9658   | 9658   | 9658   |
| 70° | 8510   | 9366   | 9366   |
| 75° | 7852   | 7852   | 7852   |
| 80° | 6744   | 6744   | 6744   |
| 85° | 3359   | 3359   | 3359   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 23893 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 295.0  | 19.3      |
| 10°-20°   | 544.6  | 35.6      |
| 20°-30°   | 362.0  | 23.7      |
| 30°-40°   | 167.4  | 11.0      |
| 40°-50°   | 77.7   | 5.1       |
| 50°-60°   | 41.5   | 2.7       |
| 60°-70°   | 24.2   | 1.6       |
| 70°-80°   | 12.8   | 0.8       |
| 80°-90°   | 2.8    | 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       |
| 0°-30°    | 1201.6 | 78.6      |
| 0°-40°    | 1368.9 | 89.6      |
| 0°-60°    | 1488.2 | 97.4      |
| 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°  | 3479 | 3479  | 3479 | 3479  | 3479 |      |
| 5°  | 3282 | 3275  | 3273 | 3282  | 3271 | 295  |
| 15° | 1992 | 1998  | 1986 | 1986  | 1975 | 546  |
| 25° | 771  | 769   | 769  | 769   | 773  | 363  |
| 35° | 257  | 255   | 257  | 259   | 259  | 166  |
| 45° | 96   | 96    | 98   | 98    | 98   | 77   |
| 55° | 44   | 46    | 46   | 46    | 46   | 41   |
| 65° | 24   | 24    | 24   | 24    | 24   | 24   |
| 75° | 12   | 12    | 12   | 12    | 12   | 12   |
| 85° | 2    | 2     | 2    | 2     | 2    | 3    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3479.3 | 3479.3 | 3479.3 | 3479.3 | 3479.3 |
| 1°    | 3472.5 | 3469.1 | 3472.5 | 3477.6 | 3470.8 |
| 2°    | 3448.8 | 3445.4 | 3445.4 | 3452.2 | 3445.4 |
| 3°    | 3403.2 | 3406.6 | 3404.9 | 3411.6 | 3399.8 |
| 4°    | 3345.7 | 3344.0 | 3350.8 | 3354.2 | 3344.0 |
| 5°    | 3281.5 | 3274.7 | 3273.0 | 3281.5 | 3271.3 |
| 6°    | 3193.5 | 3188.5 | 3185.1 | 3195.2 | 3181.7 |
| 7°    | 3098.9 | 3095.5 | 3090.4 | 3093.8 | 3083.7 |
| 8°    | 2982.2 | 2980.5 | 2977.2 | 2980.5 | 2968.7 |
| 9°    | 2852.0 | 2852.0 | 2858.8 | 2857.1 | 2850.4 |
| 10°   | 2725.3 | 2728.6 | 2725.3 | 2728.6 | 2715.1 |
| 11°   | 2583.2 | 2583.2 | 2586.6 | 2584.9 | 2586.6 |
| 12°   | 2459.8 | 2446.3 | 2442.9 | 2439.5 | 2429.4 |
| 13°   | 2300.9 | 2290.8 | 2287.4 | 2290.8 | 2285.7 |
| 14°   | 2155.5 | 2148.8 | 2131.9 | 2135.2 | 2128.5 |
| 15°   | 1991.5 | 1998.3 | 1986.5 | 1986.5 | 1974.6 |
| 17.5° | 1628.1 | 1621.3 | 1624.7 | 1626.4 | 1621.3 |
| 20°   | 1296.7 | 1293.3 | 1289.9 | 1286.5 | 1291.6 |
| 22.5° | 1007.6 | 1009.3 | 1005.9 | 1002.5 | 999.1  |
| 25°   | 770.9  | 769.2  | 769.2  | 769.2  | 772.6  |
| 27.5° | 584.9  | 584.9  | 584.9  | 586.6  | 586.6  |
| 30°   | 442.9  | 439.6  | 442.9  | 444.6  | 444.6  |
| 32.5° | 331.4  | 334.7  | 336.4  | 336.4  | 336.4  |
| 35°   | 257.0  | 255.3  | 257.0  | 258.7  | 258.7  |
| 37.5° | 196.1  | 196.1  | 197.8  | 197.8  | 199.5  |
| 40°   | 152.2  | 152.2  | 152.2  | 153.8  | 155.5  |
| 42.5° | 120.0  | 120.0  | 121.7  | 121.7  | 123.4  |
| 45°   | 96.4   | 96.4   | 98.1   | 98.1   | 98.1   |
| 47.5° | 77.8   | 77.8   | 79.5   | 79.5   | 79.5   |
| 50°   | 64.2   | 64.2   | 64.2   | 64.2   | 64.2   |
| 52.5° | 54.1   | 52.4   | 54.1   | 54.1   | 54.1   |
| 55°   | 44.0   | 45.6   | 45.6   | 45.6   | 45.6   |
| 57.5° | 37.2   | 38.9   | 38.9   | 38.9   | 38.9   |
| 60°   | 32.1   | 32.1   | 32.1   | 33.8   | 33.8   |
| 62.5° | 27.0   | 28.7   | 28.7   | 28.7   | 28.7   |
| 65°   | 23.7   | 23.7   | 23.7   | 23.7   | 23.7   |
| 67.5° | 20.3   | 20.3   | 20.3   | 20.3   | 22.0   |
| 70°   | 16.9   | 16.9   | 18.6   | 18.6   | 18.6   |
| 72.5° | 15.2   | 15.2   | 15.2   | 15.2   | 15.2   |
| 75°   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   |
| 77.5° | 8.5    | 8.5    | 10.1   | 10.1   | 8.5    |
| 80°   | 6.8    | 6.8    | 6.8    | 6.8    | 6.8    |
| 82.5° | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    |
| 85°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 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)