

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: P1320372

Luminaire Tested: LDSQA3D20R209840D010 3LSQPHRL1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320372  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R209840D010 3LSQPHRL1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , 3LSQPHRL1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

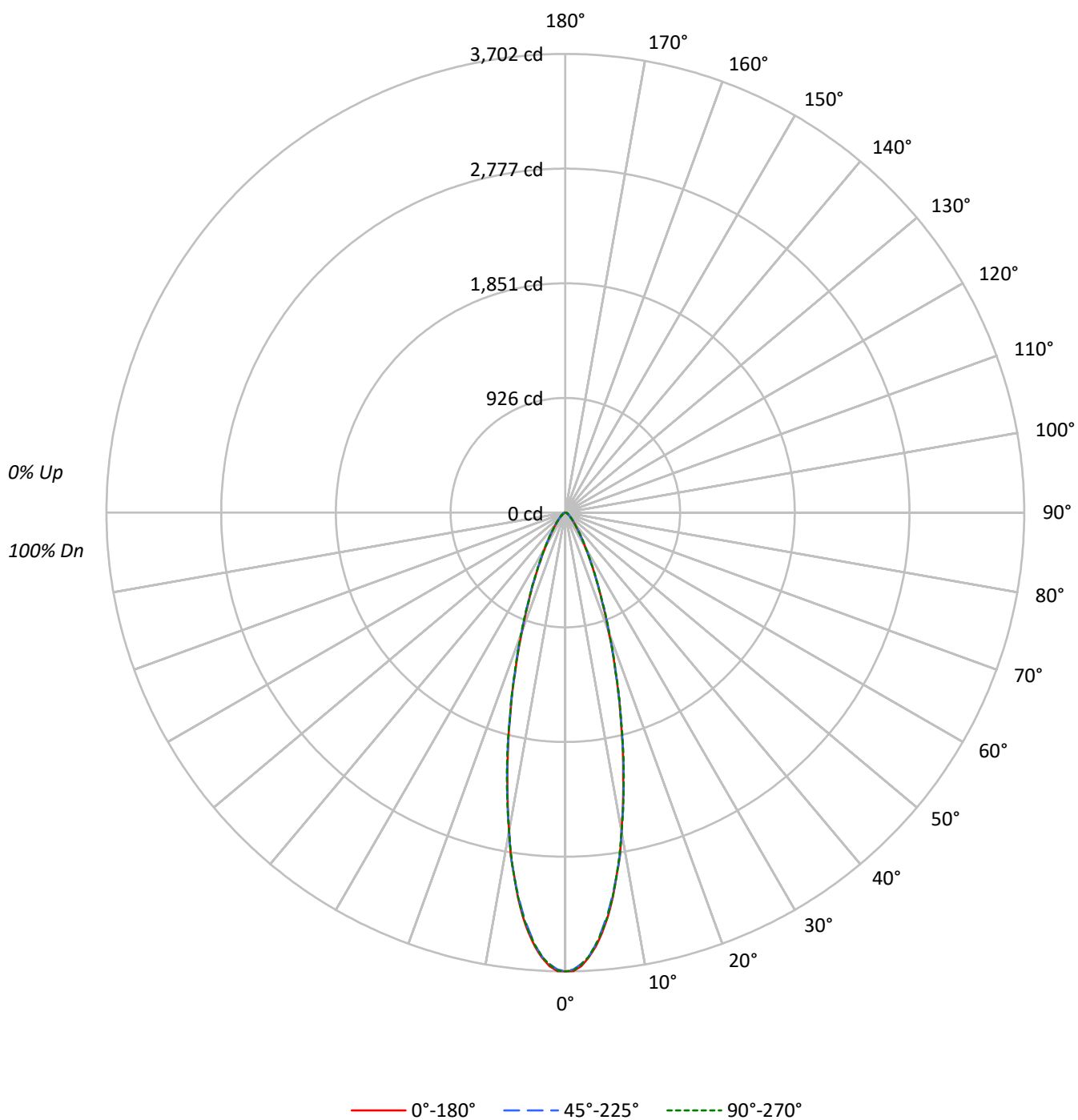
Lumens per Lamp: N/A  
Luminaire Lumens: 1300.9 lumens  
Efficiency: N/A  
Efficacy: 47.5 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.4  
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  |  | 96  | 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  | 84  | 82  |  | 86  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 82  | 79  | 86  | 81  | 78  |  | 84  | 80  | 77  |  | 82  |
| 6   | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 77  | 74  |  | 80  | 77  | 74  |  | 79  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 78  | 74  | 71  |  | 77  | 73  | 70  |  | 76  |
| 8   | 85  | 77  | 72  | 68  | 84  | 76  | 71  | 68  | 75  | 71  | 68  |  | 74  | 70  | 67  |  | 73  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 68  | 65  | 72  | 68  | 65  |  | 71  | 67  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 62  | 78  | 70  | 66  | 62  | 70  | 65  | 62  |  | 69  | 65  | 62  |  | 68  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 637585 | 637585 | 637585 |
| 5°  | 588209 | 584837 | 586808 |
| 10° | 456453 | 457012 | 457012 |
| 15° | 308509 | 309953 | 309953 |
| 20° | 187363 | 189745 | 190625 |
| 25° | 109911 | 111451 | 111147 |
| 30° | 64114  | 65407  | 65725  |
| 35° | 39169  | 40199  | 40199  |
| 40° | 25495  | 25854  | 26237  |
| 45° | 17755  | 18145  | 18535  |
| 50° | 13021  | 13450  | 13450  |
| 55° | 10209  | 10689  | 10689  |
| 60° | 8921   | 8921   | 9472   |
| 65° | 7906   | 7906   | 8599   |
| 70° | 7352   | 7352   | 7352   |
| 75° | 6455   | 6455   | 6455   |
| 80° | 4860   | 4860   | 6447   |
| 85° | 3162   | 3162   | 6323   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 18535 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 298.5  | 22.9      |
| 10°-20°   | 478.1  | 36.7      |
| 20°-30°   | 276.9  | 21.3      |
| 30°-40°   | 124.1  | 9.5       |
| 40°-50°   | 58.8   | 4.5       |
| 50°-60°   | 32.2   | 2.5       |
| 60°-70°   | 19.5   | 1.5       |
| 70°-80°   | 10.5   | 0.8       |
| 80°-90°   | 2.3    | 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°    | 1053.4 | 81.0      |
| 0°-40°    | 1177.6 | 90.5      |
| 0°-60°    | 1268.6 | 97.5      |
| 0°-90°    | 1300.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1300.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3702 | 3702  | 3702 | 3702  | 3702 |      |
| 5°  | 3402 | 3391  | 3383 | 3389  | 3394 | 299  |
| 15° | 1730 | 1730  | 1738 | 1730  | 1738 | 477  |
| 25° | 578  | 578   | 586  | 582   | 585  | 274  |
| 35° | 186  | 188   | 191  | 193   | 191  | 122  |
| 45° | 73   | 73    | 74   | 74    | 76   | 58   |
| 55° | 34   | 34    | 36   | 36    | 36   | 31   |
| 65° | 19   | 19    | 19   | 19    | 21   | 19   |
| 75° | 10   | 10    | 10   | 10    | 10   | 10   |
| 85° | 2    | 2     | 2    | 2     | 3    | 2    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3702.1 | 3702.1 | 3702.1 | 3702.1 | 3702.1 |
| 1°    | 3700.5 | 3690.7 | 3687.5 | 3684.3 | 3694.0 |
| 2°    | 3663.2 | 3651.9 | 3645.4 | 3648.6 | 3650.2 |
| 3°    | 3596.8 | 3590.3 | 3590.3 | 3585.4 | 3588.7 |
| 4°    | 3510.9 | 3497.9 | 3497.9 | 3499.6 | 3499.6 |
| 5°    | 3402.4 | 3391.0 | 3382.9 | 3389.4 | 3394.3 |
| 6°    | 3280.8 | 3266.3 | 3259.8 | 3261.4 | 3272.7 |
| 7°    | 3131.8 | 3112.3 | 3115.6 | 3123.7 | 3123.7 |
| 8°    | 2963.3 | 2961.7 | 2964.9 | 2961.7 | 2964.9 |
| 9°    | 2807.8 | 2785.1 | 2804.5 | 2788.3 | 2796.4 |
| 10°   | 2610.1 | 2608.5 | 2613.3 | 2618.2 | 2613.3 |
| 12.5° | 2159.7 | 2167.8 | 2171.0 | 2164.5 | 2179.1 |
| 15°   | 1730.3 | 1730.3 | 1738.4 | 1730.3 | 1738.4 |
| 17.5° | 1346.4 | 1344.7 | 1351.2 | 1344.7 | 1354.5 |
| 20°   | 1022.3 | 1033.7 | 1035.3 | 1035.3 | 1040.1 |
| 22.5° | 771.2  | 771.2  | 777.7  | 779.3  | 776.1  |
| 25°   | 578.4  | 578.4  | 586.5  | 581.6  | 584.9  |
| 27.5° | 427.7  | 431.0  | 437.4  | 440.7  | 440.7  |
| 30°   | 322.4  | 324.0  | 328.9  | 330.5  | 330.5  |
| 32.5° | 243.0  | 246.3  | 249.5  | 251.1  | 252.7  |
| 35°   | 186.3  | 187.9  | 191.2  | 192.8  | 191.2  |
| 37.5° | 142.6  | 144.2  | 147.4  | 149.1  | 149.1  |
| 40°   | 113.4  | 113.4  | 115.0  | 116.7  | 116.7  |
| 42.5° | 89.1   | 90.7   | 90.7   | 92.3   | 92.3   |
| 45°   | 72.9   | 72.9   | 74.5   | 74.5   | 76.1   |
| 47.5° | 58.3   | 58.3   | 59.9   | 61.6   | 61.6   |
| 50°   | 48.6   | 48.6   | 50.2   | 50.2   | 50.2   |
| 52.5° | 40.5   | 40.5   | 42.1   | 42.1   | 42.1   |
| 55°   | 34.0   | 34.0   | 35.6   | 35.6   | 35.6   |
| 57.5° | 29.2   | 29.2   | 30.8   | 30.8   | 30.8   |
| 60°   | 25.9   | 25.9   | 25.9   | 25.9   | 27.5   |
| 62.5° | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   |
| 65°   | 19.4   | 19.4   | 19.4   | 19.4   | 21.1   |
| 67.5° | 16.2   | 16.2   | 16.2   | 16.2   | 17.8   |
| 70°   | 14.6   | 14.6   | 14.6   | 14.6   | 14.6   |
| 72.5° | 11.3   | 11.3   | 11.3   | 13.0   | 13.0   |
| 75°   | 9.7    | 9.7    | 9.7    | 9.7    | 9.7    |
| 77.5° | 8.1    | 8.1    | 8.1    | 8.1    | 8.1    |
| 80°   | 4.9    | 4.9    | 4.9    | 6.5    | 6.5    |
| 82.5° | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 85°   | 1.6    | 1.6    | 1.6    | 1.6    | 3.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)