

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: P1320358

Luminaire Tested: LDSQA3D20R159840D010 3LSQPHRL1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320358  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R159840D010 3LSQPHRL1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , 3LSQPHRL1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

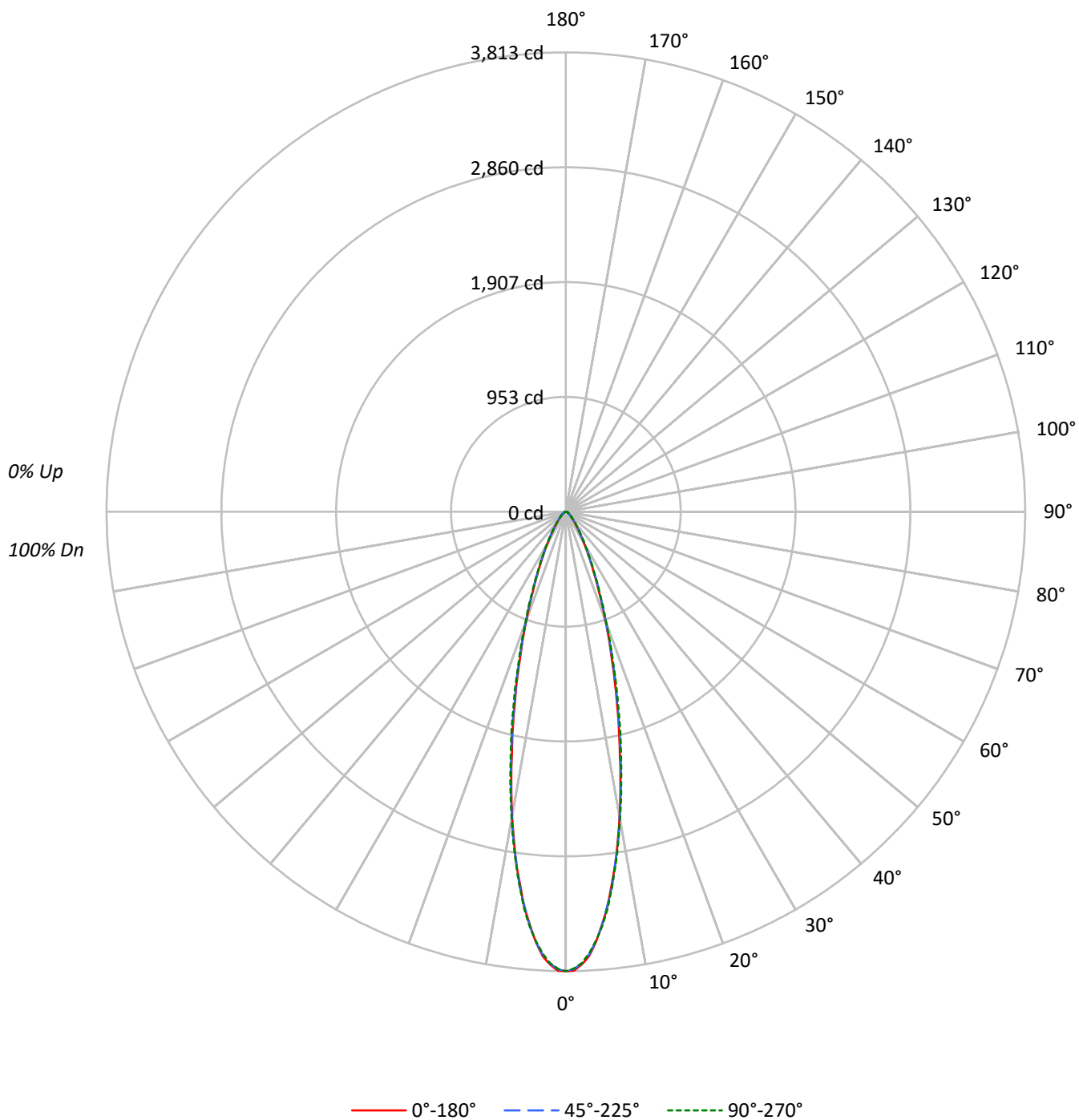
Lumens per Lamp: N/A  
Luminaire Lumens: 1261.0 lumens  
Efficiency: N/A  
Efficacy: 46.0 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.46 / 0.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |  | 97  | 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  | 85  | 82  |  | 86  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 83  | 79  | 86  | 82  | 78  |  | 84  | 80  | 78  |  | 83  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 78  | 75  | 82  | 78  | 74  |  | 81  | 77  | 74  |  | 79  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 79  | 74  | 71  |  | 77  | 74  | 71  |  | 76  |
| 8   | 85  | 77  | 72  | 68  | 84  | 76  | 72  | 68  | 75  | 71  | 68  |  | 74  | 70  | 68  |  | 74  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 69  | 65  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 63  | 78  | 71  | 66  | 63  | 70  | 66  | 63  |  | 69  | 65  | 62  |  | 69  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 656719 | 656719 | 656719 |
| 5°  | 594847 | 595954 | 596801 |
| 10° | 449090 | 450227 | 452501 |
| 15° | 291303 | 294477 | 300254 |
| 20° | 175376 | 177466 | 179830 |
| 25° | 102462 | 104610 | 106149 |
| 30° | 60216  | 62145  | 63120  |
| 35° | 37108  | 38475  | 39148  |
| 40° | 24393  | 25112  | 25472  |
| 45° | 16952  | 17341  | 17755  |
| 50° | 12593  | 13021  | 13450  |
| 55° | 10209  | 10689  | 10689  |
| 60° | 8921   | 8921   | 8921   |
| 65° | 7906   | 7906   | 7906   |
| 70° | 6546   | 7352   | 7352   |
| 75° | 6455   | 6455   | 6455   |
| 80° | 4860   | 6447   | 6447   |
| 85° | 3162   | 3162   | 3162   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 17755 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 300.4  | 23.8      |
| 10°-20°   | 459.3  | 36.4      |
| 20°-30°   | 261.0  | 20.7      |
| 30°-40°   | 119.1  | 9.4       |
| 40°-50°   | 57.1   | 4.5       |
| 50°-60°   | 31.9   | 2.5       |
| 60°-70°   | 19.5   | 1.5       |
| 70°-80°   | 10.4   | 0.8       |
| 80°-90°   | 2.2    | 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°    | 1020.7 | 80.9      |
| 0°-40°    | 1139.8 | 90.4      |
| 0°-60°    | 1228.8 | 97.4      |
| 0°-90°    | 1261.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1261.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3813 | 3813  | 3813 | 3813  | 3813 |      |
| 5°  | 3441 | 3439  | 3447 | 3447  | 3452 | 300  |
| 15° | 1634 | 1642  | 1652 | 1674  | 1684 | 453  |
| 25° | 539  | 539   | 550  | 555   | 559  | 256  |
| 35° | 176  | 180   | 183  | 186   | 186  | 116  |
| 45° | 70   | 70    | 71   | 73    | 73   | 55   |
| 55° | 34   | 34    | 36   | 36    | 36   | 31   |
| 65° | 19   | 19    | 19   | 19    | 19   | 19   |
| 75° | 10   | 10    | 10   | 10    | 10   | 10   |
| 85° | 2    | 2     | 2    | 2     | 2    | 2    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3813.2 | 3813.2 | 3813.2 | 3813.2 | 3813.2 |
| 1°    | 3809.9 | 3800.2 | 3797.0 | 3795.4 | 3792.1 |
| 2°    | 3761.4 | 3753.3 | 3751.7 | 3751.7 | 3750.0 |
| 3°    | 3693.4 | 3678.8 | 3680.4 | 3675.6 | 3670.7 |
| 4°    | 3578.4 | 3571.9 | 3575.2 | 3578.4 | 3571.9 |
| 5°    | 3440.8 | 3439.1 | 3447.2 | 3447.2 | 3452.1 |
| 6°    | 3298.3 | 3296.7 | 3291.8 | 3304.8 | 3311.2 |
| 7°    | 3116.9 | 3126.6 | 3139.6 | 3133.1 | 3138.0 |
| 8°    | 2951.8 | 2940.4 | 2945.3 | 2961.5 | 2963.1 |
| 9°    | 2757.5 | 2749.4 | 2770.4 | 2776.9 | 2778.5 |
| 10°   | 2568.0 | 2576.1 | 2574.5 | 2597.2 | 2587.5 |
| 12.5° | 2074.2 | 2087.1 | 2101.7 | 2111.4 | 2121.1 |
| 15°   | 1633.8 | 1641.9 | 1651.6 | 1674.2 | 1684.0 |
| 17.5° | 1256.5 | 1266.2 | 1275.9 | 1295.3 | 1298.6 |
| 20°   | 956.9  | 961.8  | 968.3  | 986.1  | 981.2  |
| 22.5° | 715.7  | 723.8  | 730.3  | 738.3  | 743.2  |
| 25°   | 539.2  | 539.2  | 550.5  | 555.4  | 558.6  |
| 27.5° | 401.6  | 404.8  | 412.9  | 419.4  | 417.7  |
| 30°   | 302.8  | 307.6  | 312.5  | 315.7  | 317.4  |
| 32.5° | 233.2  | 233.2  | 238.0  | 242.9  | 244.5  |
| 35°   | 176.5  | 179.7  | 183.0  | 186.2  | 186.2  |
| 37.5° | 137.6  | 139.2  | 142.5  | 144.1  | 144.1  |
| 40°   | 108.5  | 108.5  | 111.7  | 113.3  | 113.3  |
| 42.5° | 85.8   | 87.4   | 89.1   | 90.7   | 90.7   |
| 45°   | 69.6   | 69.6   | 71.2   | 72.9   | 72.9   |
| 47.5° | 56.7   | 56.7   | 58.3   | 59.9   | 59.9   |
| 50°   | 47.0   | 48.6   | 48.6   | 50.2   | 50.2   |
| 52.5° | 40.5   | 40.5   | 40.5   | 42.1   | 42.1   |
| 55°   | 34.0   | 34.0   | 35.6   | 35.6   | 35.6   |
| 57.5° | 29.1   | 29.1   | 29.1   | 30.8   | 30.8   |
| 60°   | 25.9   | 25.9   | 25.9   | 25.9   | 25.9   |
| 62.5° | 22.7   | 22.7   | 22.7   | 22.7   | 22.7   |
| 65°   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   |
| 67.5° | 16.2   | 16.2   | 16.2   | 17.8   | 17.8   |
| 70°   | 13.0   | 14.6   | 14.6   | 14.6   | 14.6   |
| 72.5° | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   |
| 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    | 6.5    | 6.5    | 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    | 1.6    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)