

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: P1320369

Luminaire Tested: LDSQA3D20R209840D010 3LSQPHR1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320369  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R209840D010 3LSQPHR1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , 3LSQPHR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

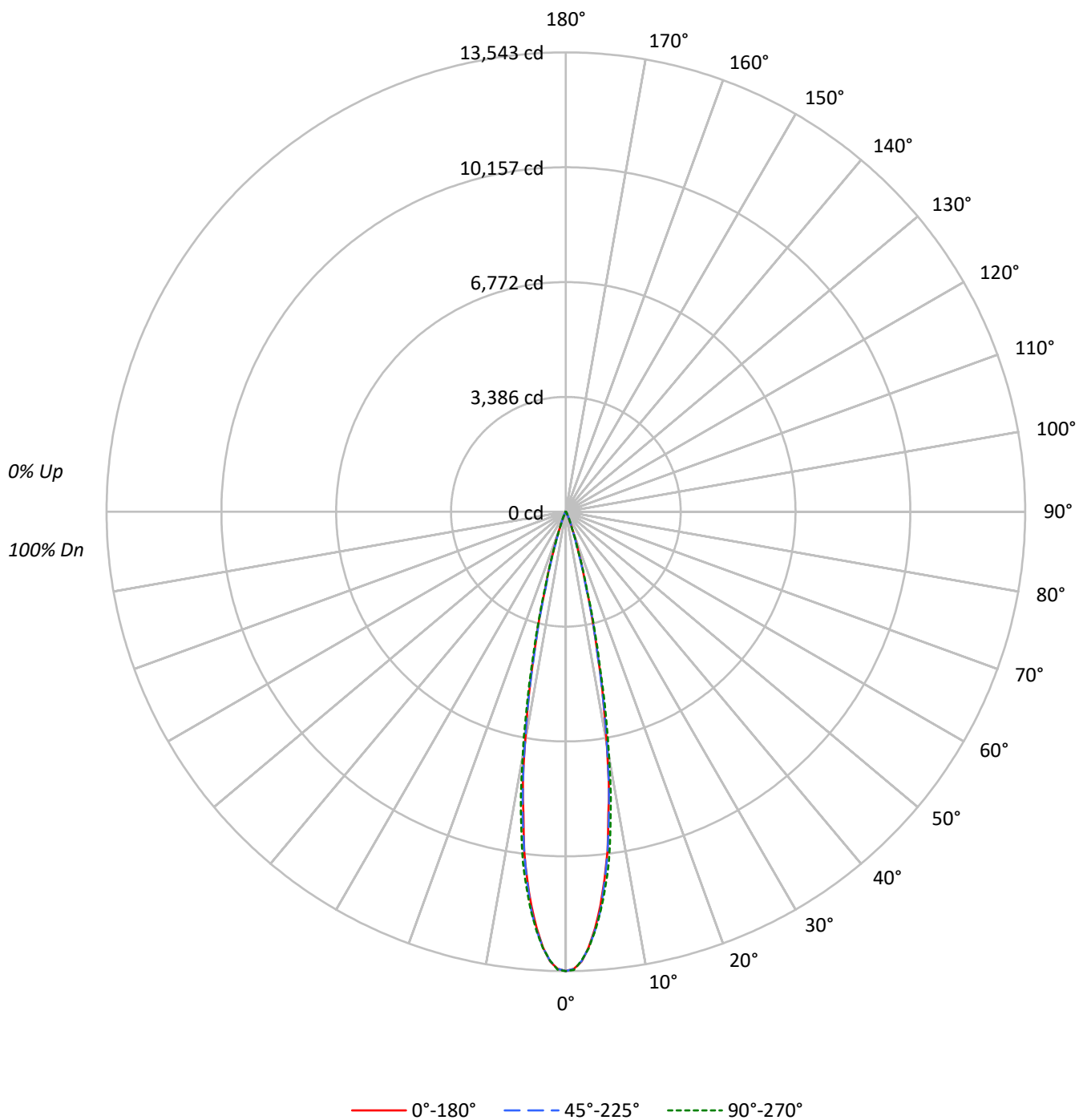
Lumens per Lamp: N/A  
Luminaire Lumens: 1819.0 lumens  
Efficiency: N/A  
Efficacy: 66.4 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 100 | 100 | 100 | 98  |
| 2   | 113 | 109 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 101 | 102 | 101 | 99  | 99  | 98  | 97  | 97  | 97  | 96  |
| 3   | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 100 | 102 | 100 | 98  | 100 | 98  | 97  | 98  | 96  | 95  | 95  | 95  | 94  |
| 4   | 107 | 103 | 99  | 97  | 106 | 102 | 99  | 96  | 100 | 97  | 95  | 98  | 96  | 94  | 96  | 95  | 93  | 93  | 93  | 92  |
| 5   | 105 | 100 | 97  | 94  | 104 | 99  | 96  | 94  | 98  | 95  | 93  | 96  | 94  | 92  | 95  | 93  | 92  | 92  | 92  | 91  |
| 6   | 103 | 98  | 94  | 92  | 102 | 97  | 94  | 91  | 96  | 93  | 91  | 95  | 92  | 90  | 93  | 91  | 90  | 90  | 90  | 89  |
| 7   | 101 | 95  | 92  | 90  | 100 | 95  | 92  | 89  | 94  | 91  | 89  | 93  | 90  | 89  | 92  | 90  | 88  | 88  | 88  | 87  |
| 8   | 99  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 89  | 87  | 91  | 89  | 87  | 91  | 88  | 87  | 87  | 87  | 86  |
| 9   | 97  | 92  | 88  | 86  | 96  | 91  | 88  | 86  | 91  | 88  | 86  | 90  | 87  | 86  | 89  | 87  | 85  | 85  | 85  | 85  |
| 10  | 95  | 90  | 87  | 85  | 95  | 90  | 87  | 85  | 89  | 86  | 84  | 88  | 86  | 84  | 88  | 86  | 84  | 84  | 84  | 83  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 2332411 | 2332411 | 2332411 |
| 5°  | 2014922 | 2033697 | 2041269 |
| 10° | 1212964 | 1224296 | 1285224 |
| 15° | 419535  | 409711  | 442375  |
| 20° | 110185  | 103661  | 103954  |
| 25° | 24019   | 28941   | 32951   |
| 30° | 10321   | 10321   | 10639   |
| 35° | 5782    | 5109    | 5445    |
| 40° | 2540    | 2923    | 3282    |
| 45° | 779     | 1193    | 1193    |
| 50° | 429     | 429     | 429     |
| 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: 22.5°

Vertical Angle: 45°

Luminance: 1193 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 968.6  | 53.3      |
| 10°-20°   | 737.5  | 40.5      |
| 20°-30°   | 91.2   | 5.0       |
| 30°-40°   | 17.3   | 0.9       |
| 40°-50°   | 4.2    | 0.2       |
| 50°-60°   | 0.3    | 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°    | 1797.3 | 98.8      |
| 0°-40°    | 1814.6 | 99.8      |
| 0°-60°    | 1819.0 | 100.0     |
| 0°-90°    | 1819.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1819.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 13543 | 13543 | 13543 | 13543 | 13543 |      |
| 5°  | 11655 | 11647 | 11764 | 11756 | 11807 | 961  |
| 15° | 2353  | 2269  | 2298  | 2436  | 2481  | 737  |
| 25° | 126   | 144   | 152   | 159   | 173   | 87   |
| 35° | 28    | 28    | 24    | 26    | 26    | 18   |
| 45° | 3     | 5     | 5     | 5     | 5     | 3    |
| 55° | 0     | 0     | 0     | 0     | 0     | 1    |
| 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     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 13543.0 | 13543.0 | 13543.0 | 13543.0 | 13543.0 |
| 1°    | 13479.8 | 13463.6 | 13476.5 | 13449.0 | 13505.7 |
| 2°    | 13264.3 | 13248.0 | 13248.0 | 13231.8 | 13239.9 |
| 3°    | 12862.4 | 12888.3 | 12872.1 | 12838.0 | 12881.8 |
| 4°    | 12314.6 | 12343.8 | 12369.7 | 12371.3 | 12377.8 |
| 5°    | 11655.0 | 11646.9 | 11763.6 | 11755.5 | 11807.4 |
| 6°    | 10903.1 | 10893.4 | 10943.6 | 11027.9 | 11131.6 |
| 7°    | 10076.6 | 9958.3  | 10092.8 | 10263.0 | 10402.4 |
| 8°    | 9007.1  | 9037.8  | 9130.2  | 9331.2  | 9443.0  |
| 9°    | 8099.5  | 7919.7  | 8115.7  | 8355.6  | 8477.1  |
| 10°   | 6936.0  | 6790.1  | 7000.8  | 7253.6  | 7349.2  |
| 12.5° | 4365.8  | 4239.4  | 4307.4  | 4573.2  | 4615.3  |
| 15°   | 2353.0  | 2268.8  | 2297.9  | 2435.7  | 2481.1  |
| 17.5° | 1200.8  | 1124.7  | 1108.5  | 1196.0  | 1205.7  |
| 20°   | 601.2   | 583.4   | 565.6   | 573.7   | 567.2   |
| 22.5° | 278.7   | 303.0   | 299.8   | 283.6   | 303.0   |
| 25°   | 126.4   | 144.2   | 152.3   | 158.8   | 173.4   |
| 27.5° | 77.8    | 74.5    | 85.9    | 92.4    | 94.0    |
| 30°   | 51.9    | 50.2    | 51.9    | 53.5    | 53.5    |
| 32.5° | 37.3    | 35.7    | 34.0    | 34.0    | 35.7    |
| 35°   | 27.5    | 27.5    | 24.3    | 25.9    | 25.9    |
| 37.5° | 19.4    | 19.4    | 17.8    | 19.4    | 19.4    |
| 40°   | 11.3    | 13.0    | 13.0    | 13.0    | 14.6    |
| 42.5° | 6.5     | 8.1     | 8.1     | 8.1     | 8.1     |
| 45°   | 3.2     | 4.9     | 4.9     | 4.9     | 4.9     |
| 47.5° | 1.6     | 1.6     | 1.6     | 3.2     | 3.2     |
| 50°   | 1.6     | 1.6     | 1.6     | 1.6     | 1.6     |
| 52.5° | 1.6     | 0.0     | 0.0     | 0.0     | 1.6     |
| 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     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)