

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: P1318184

Luminaire Tested: LDSQA3D09R209830DE010 3LSQPHRLP1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318184  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R209830DE010 3LSQPHRLP1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , 3LSQPHRLP1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

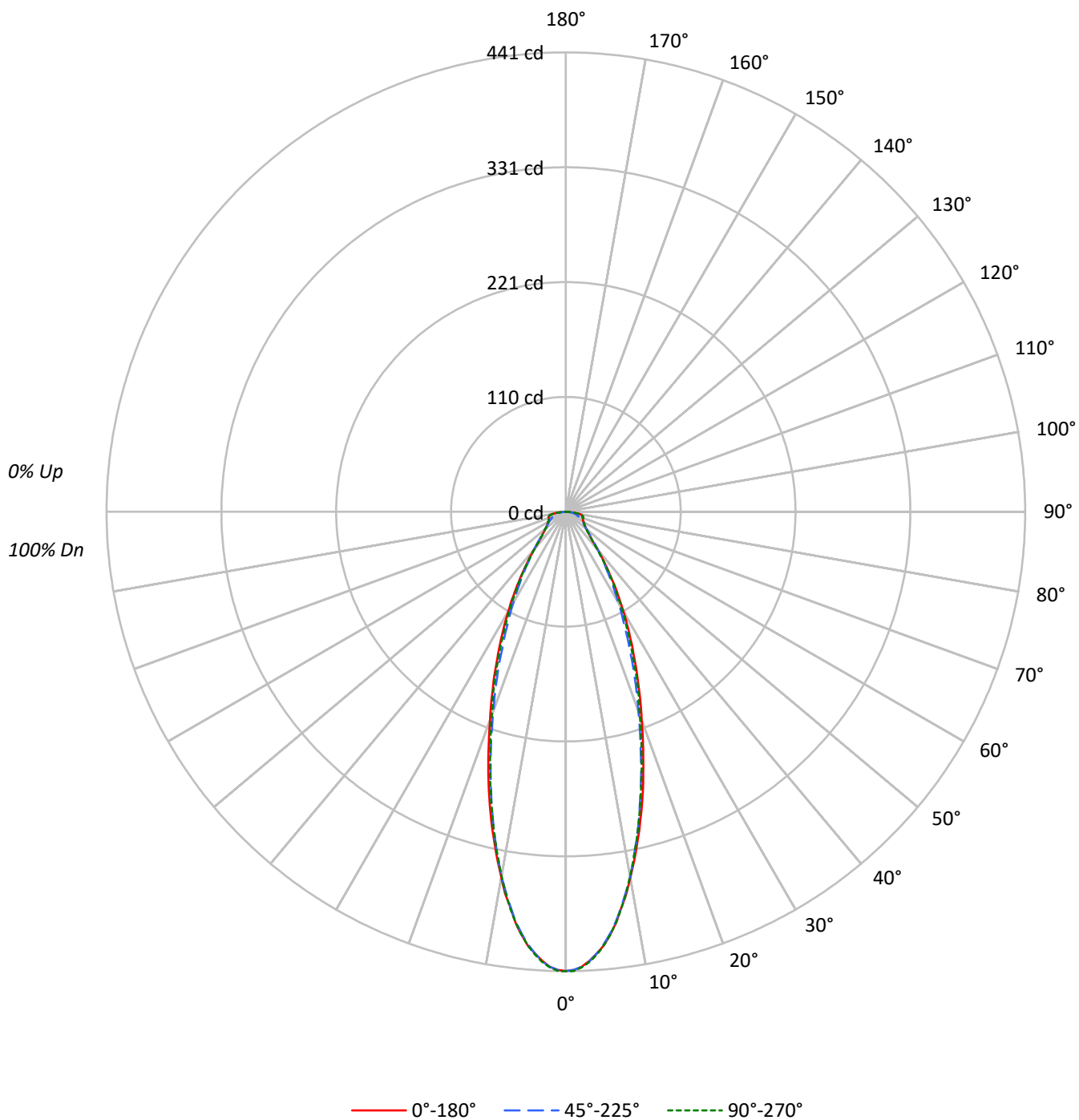
Lumens per Lamp: N/A  
Luminaire Lumens: 311.0 lumens  
Efficiency: N/A  
Efficacy: 28.3 lumens/watt  
Spacing Criteria (0/90/45): 0.62 / 0.6 / 0.65  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  |  | 97  | 95  | 94  |  | 94  |
| 2   | 104 | 98  | 93  | 88  | 102 | 96  | 91  | 87  | 93  | 89  | 85  |  | 90  | 86  | 83  |  | 87  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 85  | 81  | 77  |  | 83  | 79  | 75  |  | 81  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 75  | 71  | 79  | 74  | 70  |  | 77  | 73  | 69  |  | 75  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 68  | 64  |  | 72  | 67  | 63  |  | 71  |
| 6   | 82  | 72  | 65  | 60  | 81  | 71  | 65  | 60  | 69  | 64  | 59  |  | 68  | 63  | 59  |  | 67  |
| 7   | 78  | 67  | 61  | 56  | 77  | 67  | 60  | 56  | 65  | 60  | 55  |  | 64  | 59  | 55  |  | 63  |
| 8   | 74  | 63  | 57  | 52  | 73  | 63  | 57  | 52  | 62  | 56  | 52  |  | 61  | 55  | 52  |  | 60  |
| 9   | 71  | 60  | 53  | 49  | 69  | 59  | 53  | 49  | 58  | 53  | 49  |  | 57  | 52  | 49  |  | 57  |
| 10  | 67  | 57  | 50  | 46  | 66  | 56  | 50  | 46  | 55  | 50  | 46  |  | 55  | 50  | 46  |  | 54  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 75950 | 75950 | 75950 |
| 5°  | 72264 | 72074 | 72264 |
| 10° | 62380 | 62187 | 62100 |
| 15° | 50637 | 49460 | 49656 |
| 20° | 39001 | 37297 | 38011 |
| 25° | 29625 | 27440 | 28808 |
| 30° | 21975 | 20026 | 21318 |
| 35° | 15537 | 14486 | 15306 |
| 40° | 10701 | 10701 | 10454 |
| 45° | 7867  | 8257  | 7867  |
| 50° | 6886  | 6886  | 6886  |
| 55° | 6576  | 6396  | 6576  |
| 60° | 6786  | 6234  | 6786  |
| 65° | 7376  | 6235  | 7376  |
| 70° | 8812  | 6345  | 8812  |
| 75° | 11312 | 6920  | 11312 |
| 80° | 14083 | 7042  | 13588 |
| 85° | 10868 | 6521  | 11856 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 80°

Luminance: 14083 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.8   | 12.2      |
| 10°-20°   | 77.2   | 24.8      |
| 20°-30°   | 69.0   | 22.2      |
| 30°-40°   | 45.3   | 14.6      |
| 40°-50°   | 26.3   | 8.5       |
| 50°-60°   | 19.5   | 6.3       |
| 60°-70°   | 16.5   | 5.3       |
| 70°-80°   | 13.6   | 4.4       |
| 80°-90°   | 5.7    | 1.8       |
| 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°    | 184.1  | 59.2      |
| 0°-40°    | 229.3  | 73.7      |
| 0°-60°    | 275.1  | 88.5      |
| 0°-90°    | 311.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 311.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 441 | 441   | 441 | 441   | 441 |      |
| 5°  | 418 | 418   | 417 | 418   | 418 | 38   |
| 15° | 284 | 281   | 277 | 278   | 278 | 78   |
| 25° | 156 | 152   | 144 | 148   | 152 | 72   |
| 35° | 74  | 72    | 69  | 71    | 73  | 47   |
| 45° | 32  | 33    | 34  | 33    | 32  | 26   |
| 55° | 22  | 21    | 21  | 21    | 22  | 20   |
| 65° | 18  | 16    | 15  | 16    | 18  | 18   |
| 75° | 17  | 13    | 10  | 13    | 17  | 17   |
| 85° | 6   | 6     | 3   | 6     | 6   | 6    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 441.0 | 441.0 | 441.0 | 441.0 | 441.0 |
| 1°    | 439.9 | 440.4 | 439.9 | 440.4 | 441.0 |
| 2°    | 437.2 | 437.7 | 437.2 | 437.2 | 437.7 |
| 3°    | 431.7 | 432.2 | 432.2 | 432.2 | 432.8 |
| 4°    | 425.1 | 425.7 | 425.1 | 425.7 | 426.2 |
| 5°    | 418.0 | 417.5 | 416.9 | 417.5 | 418.0 |
| 6°    | 408.2 | 407.6 | 407.1 | 407.6 | 408.2 |
| 7°    | 397.2 | 396.7 | 396.1 | 396.1 | 396.7 |
| 8°    | 383.5 | 384.1 | 382.5 | 383.5 | 384.1 |
| 9°    | 371.5 | 370.4 | 369.3 | 369.3 | 370.4 |
| 10°   | 356.7 | 355.6 | 355.6 | 355.1 | 355.1 |
| 12.5° | 320.6 | 318.4 | 316.8 | 316.8 | 317.3 |
| 15°   | 284.0 | 281.2 | 277.4 | 277.9 | 278.5 |
| 17.5° | 247.3 | 244.0 | 239.1 | 240.2 | 241.3 |
| 20°   | 212.8 | 209.6 | 203.5 | 205.7 | 207.4 |
| 22.5° | 183.3 | 178.4 | 172.9 | 174.5 | 180.0 |
| 25°   | 155.9 | 151.6 | 144.4 | 148.3 | 151.6 |
| 27.5° | 131.9 | 126.9 | 120.9 | 124.7 | 128.0 |
| 30°   | 110.5 | 106.1 | 100.7 | 104.0 | 107.2 |
| 32.5° | 91.4  | 87.5  | 83.7  | 85.9  | 88.6  |
| 35°   | 73.9  | 71.7  | 68.9  | 71.1  | 72.8  |
| 37.5° | 59.6  | 58.5  | 57.4  | 58.5  | 58.0  |
| 40°   | 47.6  | 48.1  | 47.6  | 47.6  | 46.5  |
| 42.5° | 37.8  | 39.4  | 39.9  | 38.8  | 37.8  |
| 45°   | 32.3  | 32.8  | 33.9  | 32.8  | 32.3  |
| 47.5° | 28.5  | 28.5  | 29.0  | 28.5  | 27.9  |
| 50°   | 25.7  | 25.7  | 25.7  | 25.7  | 25.7  |
| 52.5° | 23.5  | 23.5  | 23.0  | 23.5  | 23.5  |
| 55°   | 21.9  | 21.3  | 21.3  | 21.3  | 21.9  |
| 57.5° | 20.8  | 20.2  | 19.7  | 20.2  | 20.8  |
| 60°   | 19.7  | 18.6  | 18.1  | 18.6  | 19.7  |
| 62.5° | 18.6  | 17.5  | 17.0  | 17.5  | 18.6  |
| 65°   | 18.1  | 16.4  | 15.3  | 16.4  | 18.1  |
| 67.5° | 17.5  | 15.3  | 14.2  | 15.3  | 18.1  |
| 70°   | 17.5  | 14.2  | 12.6  | 14.8  | 17.5  |
| 72.5° | 17.0  | 13.7  | 11.5  | 13.7  | 17.0  |
| 75°   | 17.0  | 12.6  | 10.4  | 12.6  | 17.0  |
| 77.5° | 15.9  | 11.5  | 8.8   | 11.5  | 15.9  |
| 80°   | 14.2  | 10.4  | 7.1   | 10.4  | 13.7  |
| 82.5° | 10.4  | 8.8   | 5.5   | 8.8   | 10.4  |
| 85°   | 5.5   | 6.0   | 3.3   | 6.0   | 6.0   |
| 87.5° | 0.5   | 2.2   | 1.1   | 3.3   | 2.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)