

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: P1324477

Luminaire Tested: LDSQA3D05R20W2N902765DE010 3LSQPHRLP1MW\_3500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1324477  
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: LDSQA3D05R20W2N902765DE010 3LSQPHRLP1MW\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3500K CCT AND, 90CRI ,  
3LSQPHRLP1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

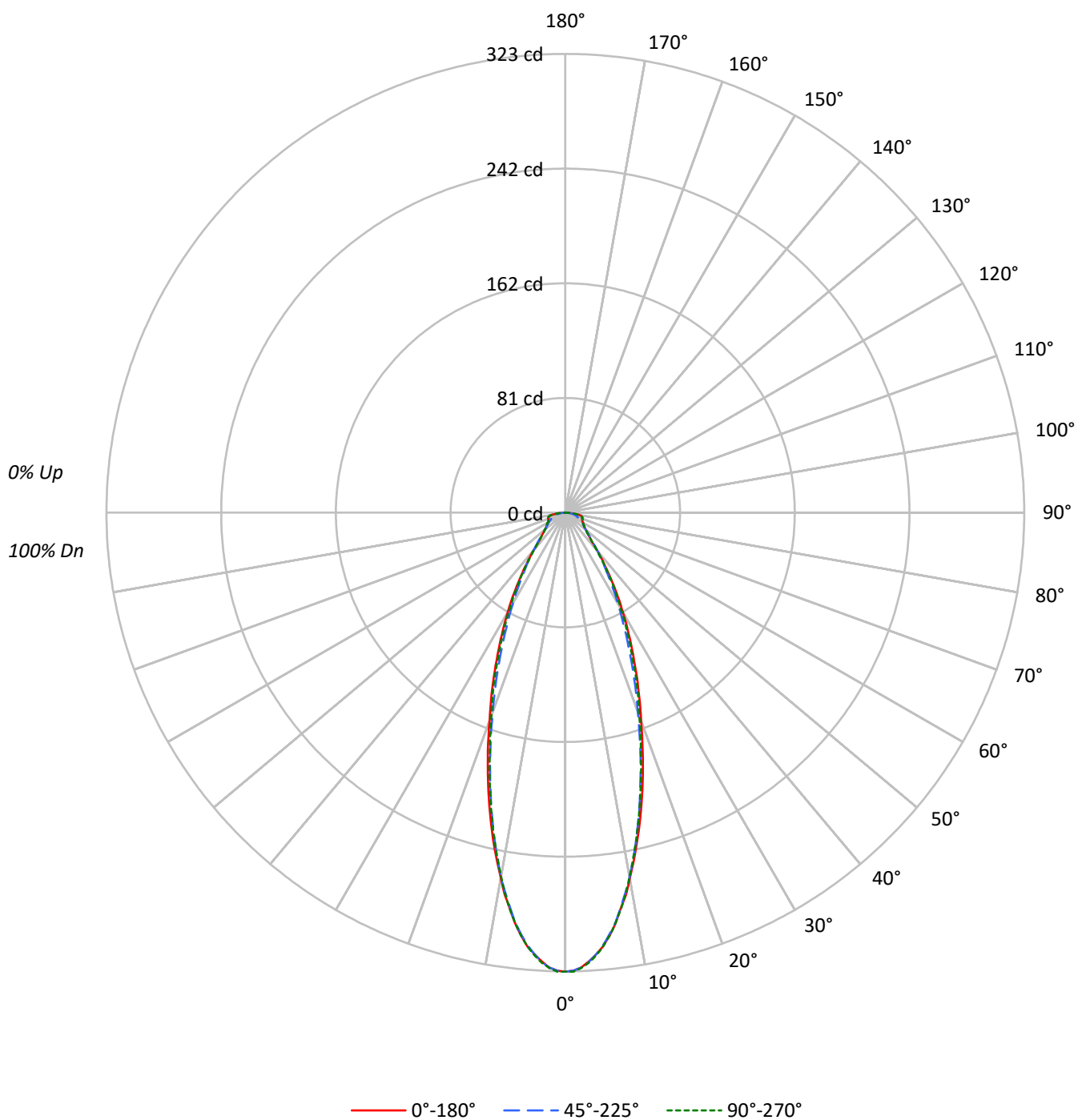
Lumens per Lamp: N/A  
Luminaire Lumens: 227.9 lumens  
Efficiency: N/A  
Efficacy: 38.6 lumens/watt  
Spacing Criteria (0/90/45): 0.62 / 0.6 / 0.65  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.9  
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   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  | 97  | 95  | 94  | 94  | 92  | 91  | 91  | 91  | 89  |
| 2   | 104 | 98  | 93  | 88  | 102 | 96  | 91  | 87  | 93  | 89  | 85  | 90  | 86  | 83  | 87  | 84  | 82  | 82  | 82  | 80  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 85  | 81  | 77  | 83  | 79  | 75  | 81  | 77  | 74  | 74  | 74  | 72  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 69  | 75  | 71  | 68  | 68  | 68  | 66  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 68  | 64  | 72  | 67  | 64  | 71  | 66  | 63  | 63  | 63  | 61  |
| 6   | 82  | 72  | 65  | 60  | 81  | 71  | 65  | 60  | 69  | 64  | 59  | 68  | 63  | 59  | 67  | 62  | 59  | 59  | 59  | 57  |
| 7   | 78  | 67  | 61  | 56  | 77  | 67  | 60  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 55  | 55  | 55  | 53  |
| 8   | 74  | 63  | 57  | 52  | 73  | 63  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 52  | 60  | 55  | 51  | 51  | 51  | 50  |
| 9   | 71  | 60  | 53  | 49  | 69  | 59  | 53  | 49  | 58  | 53  | 49  | 58  | 52  | 49  | 57  | 52  | 48  | 48  | 48  | 47  |
| 10  | 67  | 57  | 51  | 46  | 66  | 56  | 50  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 46  | 46  | 46  | 44  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 55680 | 55680 | 55680 |
| 5°  | 52988 | 52850 | 52988 |
| 10° | 45731 | 45591 | 45521 |
| 15° | 37122 | 36266 | 36408 |
| 20° | 28591 | 27345 | 27858 |
| 25° | 21720 | 20124 | 21112 |
| 30° | 16108 | 14676 | 15631 |
| 35° | 11395 | 10617 | 11206 |
| 40° | 7846  | 7846  | 7666  |
| 45° | 5772  | 6065  | 5772  |
| 50° | 5064  | 5064  | 5064  |
| 55° | 4804  | 4684  | 4804  |
| 60° | 4960  | 4547  | 4960  |
| 65° | 5379  | 4564  | 5379  |
| 70° | 6445  | 4633  | 6445  |
| 75° | 8251  | 5057  | 8251  |
| 80° | 10315 | 5157  | 9918  |
| 85° | 7904  | 4742  | 8695  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 80°

Luminance: 10315 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 27.7   | 12.2      |
| 10°-20°   | 56.6   | 24.8      |
| 20°-30°   | 50.6   | 22.2      |
| 30°-40°   | 33.2   | 14.6      |
| 40°-50°   | 19.3   | 8.5       |
| 50°-60°   | 14.3   | 6.3       |
| 60°-70°   | 12.1   | 5.3       |
| 70°-80°   | 10.0   | 4.4       |
| 80°-90°   | 4.2    | 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°    | 134.9  | 59.2      |
| 0°-40°    | 168.1  | 73.8      |
| 0°-60°    | 201.7  | 88.5      |
| 0°-90°    | 227.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 227.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 323 | 323   | 323 | 323   | 323 |      |
| 5°  | 306 | 306   | 306 | 306   | 306 | 28   |
| 15° | 208 | 206   | 203 | 204   | 204 | 58   |
| 25° | 114 | 111   | 106 | 109   | 111 | 53   |
| 35° | 54  | 52    | 50  | 52    | 53  | 34   |
| 45° | 24  | 24    | 25  | 24    | 24  | 19   |
| 55° | 16  | 16    | 16  | 16    | 16  | 15   |
| 65° | 13  | 12    | 11  | 12    | 13  | 13   |
| 75° | 12  | 9     | 8   | 9     | 12  | 13   |
| 85° | 4   | 4     | 2   | 4     | 4   | 5    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 323.3 | 323.3 | 323.3 | 323.3 | 323.3 |
| 1°    | 322.5 | 322.9 | 322.5 | 322.9 | 323.3 |
| 2°    | 320.5 | 320.9 | 320.5 | 320.5 | 320.9 |
| 3°    | 316.5 | 316.9 | 316.9 | 316.9 | 317.3 |
| 4°    | 311.7 | 312.1 | 311.7 | 312.1 | 312.5 |
| 5°    | 306.5 | 306.1 | 305.7 | 306.1 | 306.5 |
| 6°    | 299.2 | 298.8 | 298.4 | 298.8 | 299.2 |
| 7°    | 291.2 | 290.8 | 290.4 | 290.4 | 290.8 |
| 8°    | 281.2 | 281.6 | 280.4 | 281.2 | 281.6 |
| 9°    | 272.4 | 271.6 | 270.8 | 270.8 | 271.6 |
| 10°   | 261.5 | 260.7 | 260.7 | 260.3 | 260.3 |
| 12.5° | 235.1 | 233.5 | 232.2 | 232.2 | 232.6 |
| 15°   | 208.2 | 206.2 | 203.4 | 203.8 | 204.2 |
| 17.5° | 181.3 | 178.9 | 175.3 | 176.1 | 176.9 |
| 20°   | 156.0 | 153.6 | 149.2 | 150.8 | 152.0 |
| 22.5° | 134.4 | 130.8 | 126.8 | 128.0 | 132.0 |
| 25°   | 114.3 | 111.1 | 105.9 | 108.7 | 111.1 |
| 27.5° | 96.7  | 93.1  | 88.6  | 91.5  | 93.9  |
| 30°   | 81.0  | 77.8  | 73.8  | 76.2  | 78.6  |
| 32.5° | 67.0  | 64.2  | 61.4  | 63.0  | 65.0  |
| 35°   | 54.2  | 52.5  | 50.5  | 52.1  | 53.3  |
| 37.5° | 43.7  | 42.9  | 42.1  | 42.9  | 42.5  |
| 40°   | 34.9  | 35.3  | 34.9  | 34.9  | 34.1  |
| 42.5° | 27.7  | 28.9  | 29.3  | 28.5  | 27.7  |
| 45°   | 23.7  | 24.1  | 24.9  | 24.1  | 23.7  |
| 47.5° | 20.9  | 20.9  | 21.3  | 20.9  | 20.5  |
| 50°   | 18.9  | 18.9  | 18.9  | 18.9  | 18.9  |
| 52.5° | 17.2  | 17.2  | 16.8  | 17.2  | 17.2  |
| 55°   | 16.0  | 15.6  | 15.6  | 15.6  | 16.0  |
| 57.5° | 15.2  | 14.8  | 14.4  | 14.8  | 15.2  |
| 60°   | 14.4  | 13.6  | 13.2  | 13.6  | 14.4  |
| 62.5° | 13.6  | 12.8  | 12.4  | 12.8  | 13.6  |
| 65°   | 13.2  | 12.0  | 11.2  | 12.0  | 13.2  |
| 67.5° | 12.8  | 11.2  | 10.4  | 11.2  | 13.2  |
| 70°   | 12.8  | 10.4  | 9.2   | 10.8  | 12.8  |
| 72.5° | 12.4  | 10.0  | 8.4   | 10.0  | 12.4  |
| 75°   | 12.4  | 9.2   | 7.6   | 9.2   | 12.4  |
| 77.5° | 11.6  | 8.4   | 6.4   | 8.4   | 11.6  |
| 80°   | 10.4  | 7.6   | 5.2   | 7.6   | 10.0  |
| 82.5° | 7.6   | 6.4   | 4.0   | 6.4   | 7.6   |
| 85°   | 4.0   | 4.4   | 2.4   | 4.4   | 4.4   |
| 87.5° | 0.4   | 1.6   | 0.8   | 2.4   | 2.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)