

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: P1324449

Luminaire Tested: LDSQA3D05R20W2N902765DE010 3LSQPHR1MW\_5000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1324449  
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: LDSQA3D05R20W2N902765DE010 3LSQPHR1MW\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 90CRI ,  
3LSQPHR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

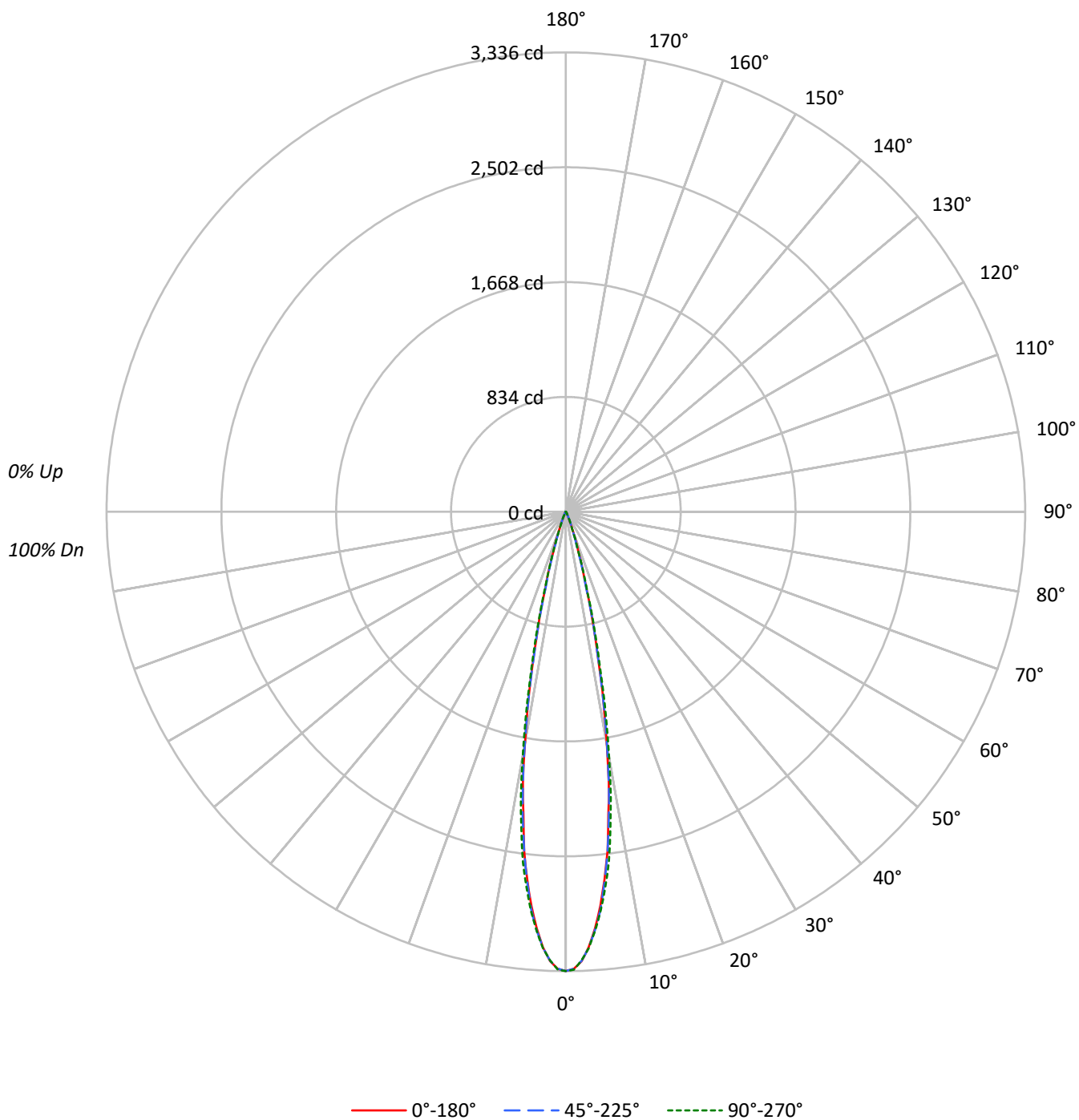
Lumens per Lamp: N/A  
Luminaire Lumens: 448.0 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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   | 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°  | 574449 | 574449 | 574449 |
| 5°  | 496253 | 500887 | 502737 |
| 10° | 298747 | 301527 | 316532 |
| 15° | 103324 | 100917 | 108958 |
| 20° | 27143  | 25530  | 25604  |
| 25° | 5910   | 7126   | 8114   |
| 30° | 2545   | 2545   | 2625   |
| 35° | 1430   | 1261   | 1346   |
| 40° | 629    | 719    | 809    |
| 45° | 195    | 292    | 292    |
| 50° | 107    | 107    | 107    |
| 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: 292 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 238.6  | 53.2      |
| 10°-20°   | 181.6  | 40.5      |
| 20°-30°   | 22.5   | 5.0       |
| 30°-40°   | 4.3    | 1.0       |
| 40°-50°   | 1.0    | 0.2       |
| 50°-60°   | 0.1    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 442.7  | 98.8      |
| 0°-40°    | 446.9  | 99.8      |
| 0°-60°    | 448.0  | 100.0     |
| 0°-90°    | 448.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 448.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3336 | 3336  | 3336 | 3336  | 3336 |      |
| 5°  | 2870 | 2868  | 2897 | 2895  | 2908 | 237  |
| 15° | 580  | 559   | 566  | 600   | 611  | 181  |
| 25° | 31   | 36    | 38   | 39    | 43   | 21   |
| 35° | 7    | 7     | 6    | 6     | 6    | 4    |
| 45° | 1    | 1     | 1    | 1     | 1    | 1    |
| 55° | 0    | 0     | 0    | 0     | 0    | 0    |
| 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°    | 3335.5 | 3335.5 | 3335.5 | 3335.5 | 3335.5 |
| 1°    | 3319.9 | 3315.9 | 3319.1 | 3312.3 | 3326.3 |
| 2°    | 3266.8 | 3262.9 | 3262.9 | 3258.9 | 3260.9 |
| 3°    | 3167.9 | 3174.2 | 3170.3 | 3161.9 | 3172.6 |
| 4°    | 3033.0 | 3040.1 | 3046.5 | 3046.9 | 3048.5 |
| 5°    | 2870.5 | 2868.5 | 2897.3 | 2895.3 | 2908.0 |
| 6°    | 2685.3 | 2682.9 | 2695.3 | 2716.0 | 2741.6 |
| 7°    | 2481.8 | 2452.6 | 2485.8 | 2527.7 | 2562.0 |
| 8°    | 2218.3 | 2225.9 | 2248.7 | 2298.2 | 2325.7 |
| 9°    | 1994.8 | 1950.5 | 1998.8 | 2057.9 | 2087.8 |
| 10°   | 1708.3 | 1672.3 | 1724.2 | 1786.5 | 1810.0 |
| 12.5° | 1075.2 | 1044.1 | 1060.9 | 1126.3 | 1136.7 |
| 15°   | 579.5  | 558.8  | 566.0  | 599.9  | 611.1  |
| 17.5° | 295.8  | 277.0  | 273.0  | 294.6  | 296.9  |
| 20°   | 148.1  | 143.7  | 139.3  | 141.3  | 139.7  |
| 22.5° | 68.6   | 74.6   | 73.8   | 69.8   | 74.6   |
| 25°   | 31.1   | 35.5   | 37.5   | 39.1   | 42.7   |
| 27.5° | 19.2   | 18.4   | 21.2   | 22.8   | 23.1   |
| 30°   | 12.8   | 12.4   | 12.8   | 13.2   | 13.2   |
| 32.5° | 9.2    | 8.8    | 8.4    | 8.4    | 8.8    |
| 35°   | 6.8    | 6.8    | 6.0    | 6.4    | 6.4    |
| 37.5° | 4.8    | 4.8    | 4.4    | 4.8    | 4.8    |
| 40°   | 2.8    | 3.2    | 3.2    | 3.2    | 3.6    |
| 42.5° | 1.6    | 2.0    | 2.0    | 2.0    | 2.0    |
| 45°   | 0.8    | 1.2    | 1.2    | 1.2    | 1.2    |
| 47.5° | 0.4    | 0.4    | 0.4    | 0.8    | 0.8    |
| 50°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 52.5° | 0.4    | 0.0    | 0.0    | 0.0    | 0.4    |
| 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)