

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: P1324193

Luminaire Tested: LDSQA3D05R15W2N902750DE010 3LSQPHR1MMS\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1324193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R15W2N902750DE010 3LSQPHR1MMS\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 4000K CCT AND, 90CRI ,  
3LSQPHR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

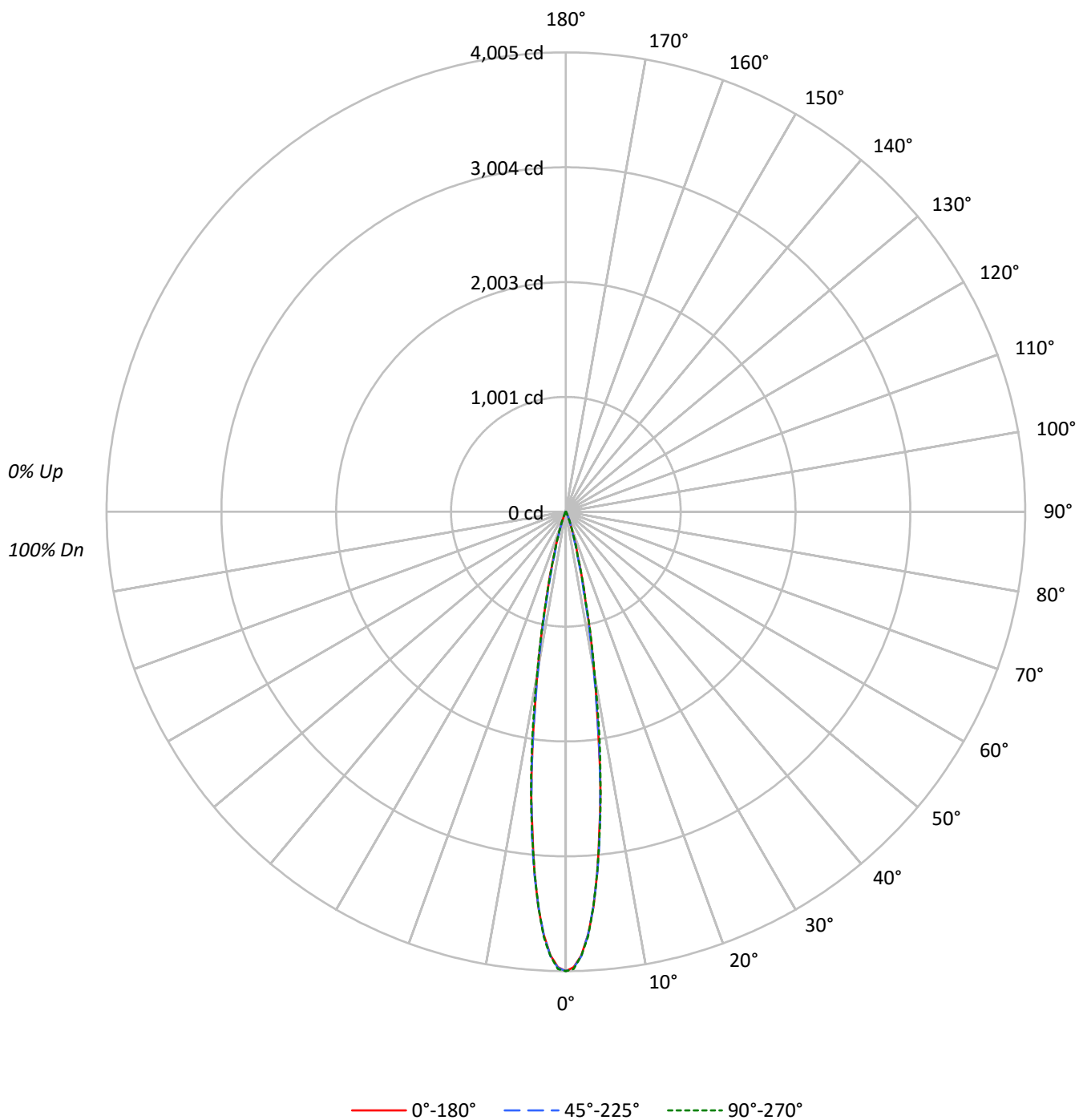
Lumens per Lamp: N/A  
Luminaire Lumens: 401.0 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.29 / 0.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 104 | 103 | 101 | 100 | 100 | 100 | 100 | 98  |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 104 | 102 | 102 | 101 | 100 | 100 | 99  | 98  | 98  | 98  | 97  |
| 3   | 110 | 107 | 104 | 101 | 109 | 105 | 103 | 100 | 103 | 101 | 99  | 101 | 99  | 97  | 99  | 97  | 96  | 96  | 96  | 95  |
| 4   | 108 | 104 | 100 | 98  | 106 | 103 | 100 | 98  | 101 | 98  | 96  | 99  | 97  | 95  | 97  | 96  | 94  | 94  | 94  | 93  |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  | 99  | 96  | 94  | 97  | 95  | 94  | 96  | 94  | 93  | 93  | 93  | 92  |
| 6   | 104 | 99  | 96  | 93  | 103 | 98  | 95  | 93  | 97  | 94  | 92  | 96  | 94  | 92  | 95  | 93  | 91  | 91  | 91  | 91  |
| 7   | 102 | 97  | 94  | 91  | 101 | 96  | 93  | 91  | 95  | 93  | 91  | 94  | 92  | 90  | 94  | 92  | 90  | 90  | 90  | 89  |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  | 94  | 91  | 89  | 93  | 91  | 89  | 92  | 90  | 89  | 89  | 89  | 88  |
| 9   | 98  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 90  | 88  | 92  | 89  | 88  | 91  | 89  | 87  | 87  | 87  | 87  |
| 10  | 97  | 92  | 89  | 87  | 96  | 92  | 89  | 87  | 91  | 88  | 87  | 90  | 88  | 86  | 90  | 88  | 86  | 86  | 86  | 86  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 689717 | 689717 | 689717 |
| 5°  | 544038 | 545507 | 543554 |
| 10° | 248906 | 242383 | 254170 |
| 15° | 74011  | 66077  | 72514  |
| 20° | 21975  | 21315  | 23074  |
| 25° | 6252   | 8076   | 7240   |
| 30° | 2227   | 2386   | 2148   |
| 35° | 841    | 757    | 757    |
| 40° | 360    | 180    | 270    |
| 45° | 195    | 97     | 195    |
| 50° | 107    | 0      | 107    |
| 55° | 120    | 0      | 120    |
| 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: 0°

Vertical Angle: 47.5°

Luminance: 204 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 242.0  | 60.3      |
| 10°-20°   | 134.3  | 33.5      |
| 20°-30°   | 21.4   | 5.3       |
| 30°-40°   | 2.8    | 0.7       |
| 40°-50°   | 0.4    | 0.1       |
| 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°    | 397.7  | 99.2      |
| 0°-40°    | 400.5  | 99.9      |
| 0°-60°    | 401.0  | 100.0     |
| 0°-90°    | 401.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 401.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4005 | 4005  | 4005 | 4005  | 4005 |      |
| 5°  | 3147 | 3173  | 3155 | 3142  | 3144 | 241  |
| 15° | 415  | 410   | 371  | 394   | 407  | 137  |
| 25° | 33   | 37    | 42   | 42    | 38   | 20   |
| 35° | 4    | 4     | 4    | 4     | 4    | 3    |
| 45° | 1    | 0     | 0    | 0     | 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°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4004.8 | 4004.8 | 4004.8 | 4004.8 | 4004.8 | 4004.8 | 4004.8 | 4004.8 | 4004.8 | 4004.8 | 4004.8 |
| 1°    | 3970.3 | 3974.7 | 3980.3 | 3975.1 | 3970.3 | 3974.7 | 3968.7 | 3969.5 | 3964.7 | 3975.1 | 3986.7 |
| 2°    | 3869.2 | 3874.8 | 3871.6 | 3864.4 | 3875.6 | 3876.4 | 3864.0 | 3858.0 | 3857.2 | 3867.6 | 3871.6 |
| 3°    | 3690.4 | 3703.2 | 3703.6 | 3701.2 | 3697.6 | 3690.4 | 3677.5 | 3685.9 | 3674.3 | 3667.1 | 3708.0 |
| 4°    | 3452.5 | 3463.8 | 3477.0 | 3468.2 | 3441.7 | 3444.1 | 3452.5 | 3424.1 | 3425.7 | 3442.1 | 3443.3 |
| 5°    | 3146.9 | 3181.0 | 3182.6 | 3170.2 | 3149.4 | 3155.4 | 3149.4 | 3141.3 | 3144.1 | 3154.6 | 3144.1 |
| 6°    | 2787.2 | 2825.7 | 2797.2 | 2824.5 | 2818.5 | 2826.1 | 2828.1 | 2819.7 | 2825.7 | 2819.3 | 2817.3 |
| 7°    | 2476.4 | 2447.1 | 2451.1 | 2439.9 | 2451.9 | 2460.0 | 2464.8 | 2450.3 | 2462.0 | 2480.4 | 2485.6 |
| 8°    | 2091.0 | 2082.6 | 2074.2 | 2094.2 | 2088.6 | 2098.2 | 2104.2 | 2120.3 | 2119.5 | 2125.1 | 2143.6 |
| 9°    | 1724.1 | 1736.5 | 1744.1 | 1726.5 | 1741.7 | 1712.0 | 1722.5 | 1765.4 | 1754.1 | 1765.4 | 1798.3 |
| 10°   | 1423.3 | 1433.3 | 1422.1 | 1421.7 | 1405.6 | 1386.0 | 1384.8 | 1400.8 | 1434.5 | 1461.0 | 1453.4 |
| 12.5° | 785.2  | 794.1  | 795.3  | 794.5  | 765.6  | 733.1  | 739.1  | 751.9  | 772.8  | 781.6  | 796.1  |
| 15°   | 415.1  | 414.7  | 419.1  | 406.7  | 391.4  | 370.6  | 372.2  | 389.8  | 405.4  | 409.5  | 406.7  |
| 17.5° | 213.0  | 213.8  | 217.0  | 213.8  | 197.7  | 199.7  | 204.1  | 206.1  | 215.4  | 219.0  | 217.0  |
| 20°   | 119.9  | 120.3  | 119.9  | 121.1  | 114.7  | 116.3  | 121.9  | 122.3  | 124.3  | 126.3  | 125.9  |
| 22.5° | 68.6   | 69.0   | 71.4   | 70.6   | 69.0   | 71.0   | 72.2   | 74.2   | 75.0   | 74.2   | 76.6   |
| 25°   | 32.9   | 33.3   | 33.3   | 38.1   | 40.5   | 42.5   | 43.3   | 42.5   | 41.7   | 38.5   | 38.1   |
| 27.5° | 18.8   | 18.8   | 19.7   | 20.1   | 20.9   | 24.5   | 24.1   | 20.1   | 16.8   | 16.8   | 17.2   |
| 30°   | 11.2   | 10.8   | 10.8   | 11.2   | 11.6   | 12.0   | 11.2   | 10.8   | 10.8   | 11.2   | 10.8   |
| 32.5° | 6.8    | 6.8    | 6.8    | 6.4    | 6.4    | 6.0    | 6.0    | 6.8    | 6.8    | 6.8    | 6.8    |
| 35°   | 4.0    | 4.0    | 4.0    | 4.0    | 3.6    | 3.6    | 3.6    | 4.0    | 4.0    | 3.6    | 3.6    |
| 37.5° | 2.4    | 2.4    | 2.4    | 2.0    | 2.0    | 1.6    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 40°   | 1.6    | 1.6    | 1.2    | 1.2    | 0.8    | 0.8    | 0.8    | 1.2    | 1.2    | 1.2    | 1.2    |
| 42.5° | 1.2    | 1.2    | 0.8    | 0.8    | 0.4    | 0.4    | 0.4    | 0.8    | 0.8    | 0.8    | 0.8    |
| 45°   | 0.8    | 0.8    | 0.8    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.8    | 0.8    |
| 47.5° | 0.8    | 0.8    | 0.4    | 0.4    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4    | 0.4    | 0.4    |
| 50°   | 0.4    | 0.4    | 0.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4    | 0.4    |
| 52.5° | 0.4    | 0.4    | 0.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4    | 0.4    |
| 55°   | 0.4    | 0.4    | 0.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4    |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)