

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: P1325794

Luminaire Tested: LDSQA3D09R15W2N902750DE010 3LSQPHR1MB\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325794  
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: LDSQA3D09R15W2N902750DE010 3LSQPHR1MB\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 4000K CCT AND, 90CRI ,  
3LSQPHR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

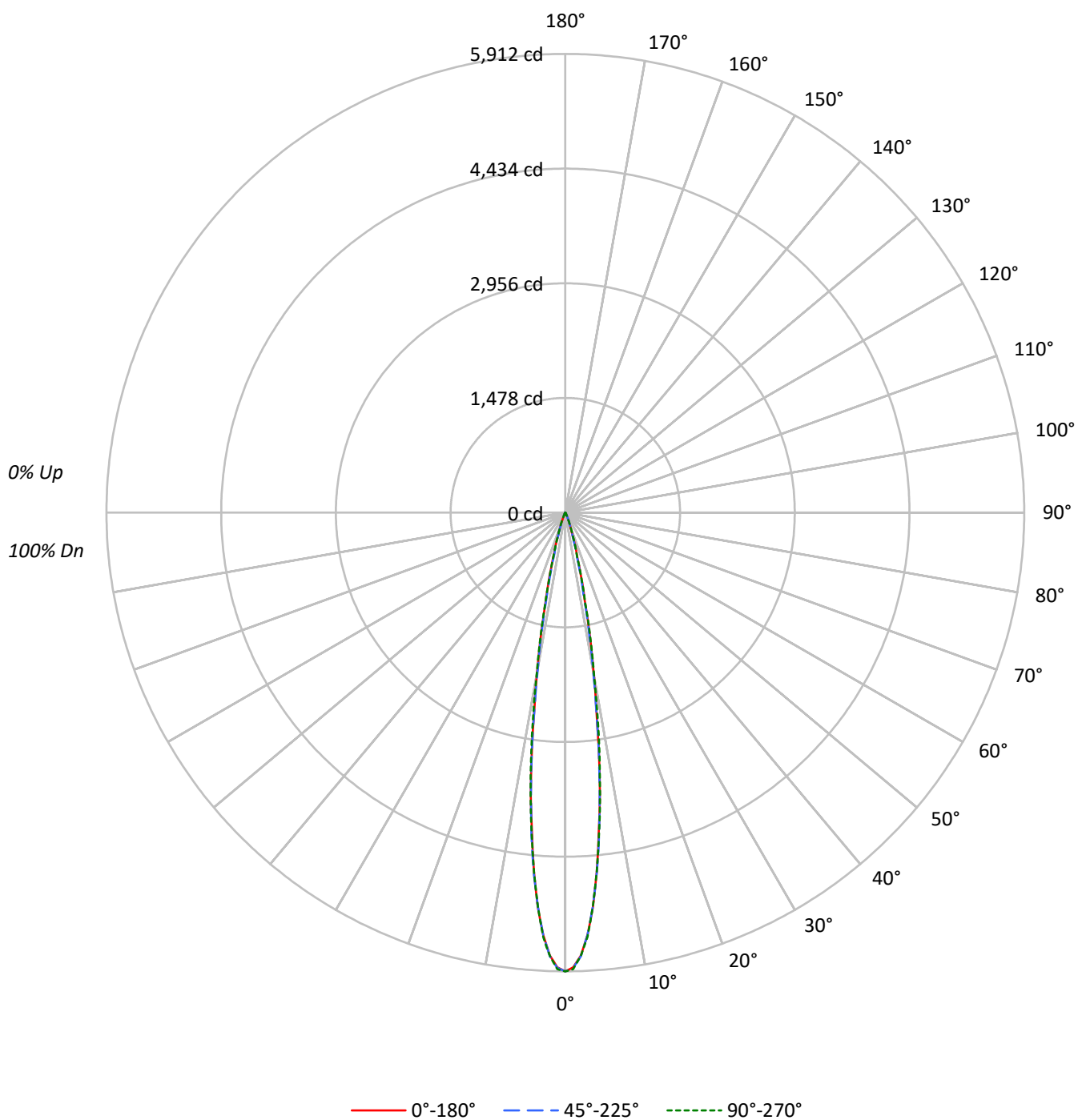
Lumens per Lamp: N/A  
Luminaire Lumens: 592.0 lumens  
Efficiency: N/A  
Efficacy: 65.8 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.29 / 0.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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 | 100 | 100 | 100 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 104 | 103 | 101 | 100 | 100 | 98  | 98  | 98  |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 104 | 102 | 102 | 101 | 100 | 100 | 99  | 98  | 97  | 97  | 97  |
| 3   | 110 | 107 | 104 | 101 | 109 | 105 | 103 | 100 | 103 | 101 | 99  | 101 | 99  | 97  | 99  | 97  | 96  | 95  | 95  | 95  |
| 4   | 108 | 104 | 100 | 98  | 106 | 103 | 100 | 98  | 101 | 98  | 96  | 99  | 97  | 95  | 97  | 96  | 94  | 93  | 93  | 93  |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  | 99  | 96  | 94  | 97  | 95  | 94  | 96  | 94  | 93  | 92  | 92  | 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  | 89  | 89  | 89  |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  | 94  | 91  | 89  | 93  | 91  | 89  | 92  | 90  | 89  | 88  | 88  | 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°  | 1018232 | 1018232 | 1018232 |
| 5°  | 803186  | 805329  | 802459  |
| 10° | 367457  | 357821  | 375221  |
| 15° | 109261  | 97547   | 107032  |
| 20° | 32440   | 31468   | 34071   |
| 25° | 9216    | 11934   | 10679   |
| 30° | 3301    | 3540    | 3182    |
| 35° | 1240    | 1114    | 1114    |
| 40° | 540     | 270     | 405     |
| 45° | 292     | 146     | 292     |
| 50° | 161     | 0       | 161     |
| 55° | 180     | 0       | 180     |
| 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: 306 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 357.2  | 60.3      |
| 10°-20°   | 198.3  | 33.5      |
| 20°-30°   | 31.6   | 5.3       |
| 30°-40°   | 4.1    | 0.7       |
| 40°-50°   | 0.6    | 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°    | 587.1  | 99.2      |
| 0°-40°    | 591.3  | 99.9      |
| 0°-60°    | 592.0  | 100.0     |
| 0°-90°    | 592.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 592.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5912 | 5912  | 5912 | 5912  | 5912 |      |
| 5°  | 4646 | 4685  | 4658 | 4639  | 4642 | 356  |
| 15° | 613  | 605   | 547  | 581   | 600  | 202  |
| 25° | 48   | 54    | 63   | 62    | 56   | 30   |
| 35° | 6    | 6     | 5    | 6     | 5    | 4    |
| 45° | 1    | 1     | 1    | 1     | 1    | 1    |
| 55° | 1    | 0     | 0    | 0     | 1    | 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°    | 5912.3 | 5912.3 | 5912.3 | 5912.3 | 5912.3 | 5912.3 | 5912.3 | 5912.3 | 5912.3 | 5912.3 | 5912.3 |
| 1°    | 5861.4 | 5867.9 | 5876.2 | 5868.5 | 5861.4 | 5867.9 | 5859.0 | 5860.2 | 5853.1 | 5868.5 | 5885.6 |
| 2°    | 5712.2 | 5720.5 | 5715.7 | 5705.1 | 5721.6 | 5722.8 | 5704.5 | 5695.6 | 5694.4 | 5709.8 | 5715.7 |
| 3°    | 5448.1 | 5467.1 | 5467.6 | 5464.1 | 5458.8 | 5448.1 | 5429.2 | 5441.6 | 5424.4 | 5413.8 | 5474.2 |
| 4°    | 5097.0 | 5113.6 | 5133.1 | 5120.1 | 5081.0 | 5084.6 | 5097.0 | 5055.0 | 5057.4 | 5081.6 | 5083.4 |
| 5°    | 4645.9 | 4696.2 | 4698.6 | 4680.2 | 4649.4 | 4658.3 | 4649.4 | 4637.6 | 4641.7 | 4657.1 | 4641.7 |
| 6°    | 4114.8 | 4171.6 | 4129.6 | 4169.9 | 4161.0 | 4172.2 | 4175.2 | 4162.8 | 4171.6 | 4162.2 | 4159.2 |
| 7°    | 3656.0 | 3612.7 | 3618.7 | 3602.1 | 3619.8 | 3631.7 | 3638.8 | 3617.5 | 3634.6 | 3661.9 | 3669.6 |
| 8°    | 3087.0 | 3074.6 | 3062.1 | 3091.7 | 3083.4 | 3097.6 | 3106.5 | 3130.2 | 3129.0 | 3137.3 | 3164.5 |
| 9°    | 2545.3 | 2563.6 | 2574.9 | 2548.8 | 2571.3 | 2527.5 | 2542.9 | 2606.2 | 2589.7 | 2606.2 | 2654.8 |
| 10°   | 2101.2 | 2116.0 | 2099.4 | 2098.8 | 2075.2 | 2046.1 | 2044.4 | 2068.1 | 2117.8 | 2156.9 | 2145.6 |
| 12.5° | 1159.2 | 1172.3 | 1174.0 | 1172.9 | 1130.2 | 1082.3 | 1091.2 | 1110.1 | 1140.9 | 1153.9 | 1175.2 |
| 15°   | 612.8  | 612.2  | 618.7  | 600.3  | 577.8  | 547.1  | 549.4  | 575.5  | 598.6  | 604.5  | 600.3  |
| 17.5° | 314.4  | 315.6  | 320.3  | 315.6  | 291.9  | 294.8  | 301.4  | 304.3  | 317.9  | 323.3  | 320.3  |
| 20°   | 177.0  | 177.6  | 177.0  | 178.8  | 169.3  | 171.7  | 180.0  | 180.6  | 183.5  | 186.5  | 185.9  |
| 22.5° | 101.2  | 101.8  | 105.4  | 104.2  | 101.8  | 104.8  | 106.6  | 109.5  | 110.7  | 109.5  | 113.1  |
| 25°   | 48.5   | 49.1   | 49.1   | 56.2   | 59.8   | 62.8   | 63.9   | 62.8   | 61.6   | 56.8   | 56.2   |
| 27.5° | 27.8   | 27.8   | 29.0   | 29.6   | 30.8   | 36.1   | 35.5   | 29.6   | 24.9   | 24.9   | 25.5   |
| 30°   | 16.6   | 16.0   | 16.0   | 16.6   | 17.2   | 17.8   | 16.6   | 16.0   | 16.0   | 16.6   | 16.0   |
| 32.5° | 10.1   | 10.1   | 10.1   | 9.5    | 9.5    | 8.9    | 8.9    | 10.1   | 10.1   | 10.1   | 10.1   |
| 35°   | 5.9    | 5.9    | 5.9    | 5.9    | 5.3    | 5.3    | 5.3    | 5.9    | 5.9    | 5.3    | 5.3    |
| 37.5° | 3.6    | 3.6    | 3.6    | 3.0    | 3.0    | 2.4    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 40°   | 2.4    | 2.4    | 1.8    | 1.8    | 1.2    | 1.2    | 1.2    | 1.8    | 1.8    | 1.8    | 1.8    |
| 42.5° | 1.8    | 1.8    | 1.2    | 1.2    | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    | 1.2    | 1.2    |
| 45°   | 1.2    | 1.2    | 1.2    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    |
| 47.5° | 1.2    | 1.2    | 0.6    | 0.6    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    |
| 50°   | 0.6    | 0.6    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    | 0.6    |
| 52.5° | 0.6    | 0.6    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    | 0.6    |
| 55°   | 0.6    | 0.6    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    |
| 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    | 0.6    | 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)