

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: P1325797

Luminaire Tested: LDSQA3D09R15W2N902750DE010 3LSQPHR1MMS\_3000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325797  
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 3LSQPHR1MMS\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,  
3LSQPHR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

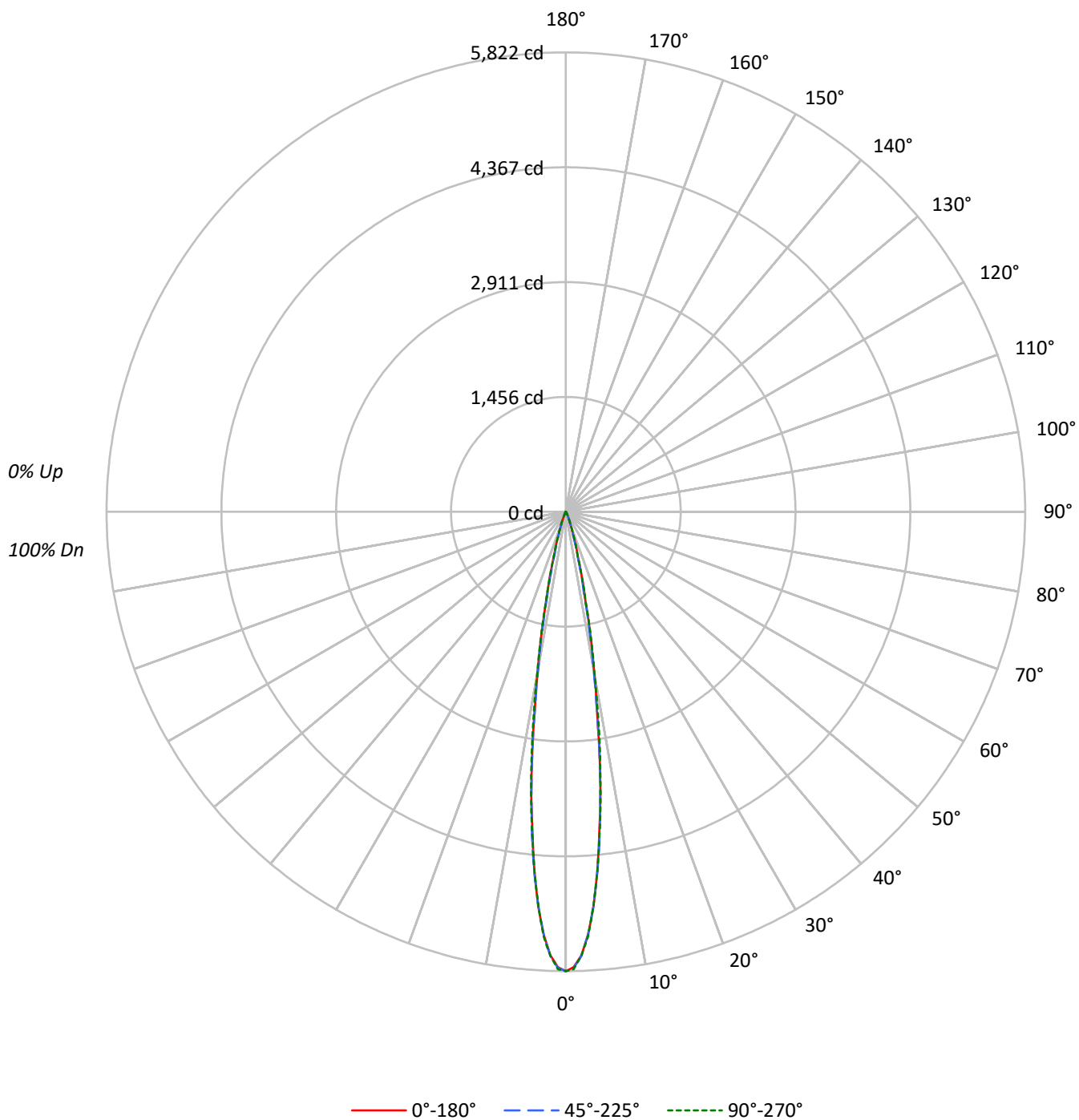
Lumens per Lamp: N/A  
Luminaire Lumens: 583.0 lumens  
Efficiency: N/A  
Efficacy: 64.8 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.29 / 0.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 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°  | 1002749 | 1002749 | 1002749 |
| 5°  | 790963  | 793089  | 790271  |
| 10° | 361878  | 352382  | 369520  |
| 15° | 107603  | 96049   | 105410  |
| 20° | 31945   | 30992   | 33558   |
| 25° | 9083    | 11744   | 10527   |
| 30° | 3242    | 3480    | 3122    |
| 35° | 1219    | 1093    | 1093    |
| 40° | 517     | 270     | 382     |
| 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°    | 351.8  | 60.3      |
| 10°-20°   | 195.3  | 33.5      |
| 20°-30°   | 31.1   | 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°    | 578.2  | 99.2      |
| 0°-40°    | 582.2  | 99.9      |
| 0°-60°    | 583.0  | 100.0     |
| 0°-90°    | 583.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 583.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5822 | 5822  | 5822 | 5822  | 5822 |      |
| 5°  | 4575 | 4614  | 4588 | 4568  | 4571 | 351  |
| 15° | 604  | 596   | 539  | 572   | 591  | 199  |
| 25° | 48   | 54    | 62   | 62    | 55   | 29   |
| 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°    | 5822.4 | 5822.4 | 5822.4 | 5822.4 | 5822.4 | 5822.4 | 5822.4 | 5822.4 | 5822.4 | 5822.4 | 5822.4 |
| 1°    | 5772.3 | 5778.7 | 5786.8 | 5779.3 | 5772.3 | 5778.7 | 5769.9 | 5771.1 | 5764.1 | 5779.3 | 5796.2 |
| 2°    | 5625.3 | 5633.5 | 5628.8 | 5618.3 | 5634.7 | 5635.8 | 5617.7 | 5609.0 | 5607.8 | 5623.0 | 5628.8 |
| 3°    | 5365.3 | 5383.9 | 5384.5 | 5381.0 | 5375.8 | 5365.3 | 5346.6 | 5358.9 | 5342.0 | 5331.5 | 5390.9 |
| 4°    | 5019.5 | 5035.9 | 5055.1 | 5042.3 | 5003.8 | 5007.3 | 5019.5 | 4978.1 | 4980.5 | 5004.4 | 5006.1 |
| 5°    | 4575.2 | 4624.8 | 4627.1 | 4609.1 | 4578.7 | 4587.5 | 4578.7 | 4567.1 | 4571.2 | 4586.3 | 4571.2 |
| 6°    | 4052.2 | 4108.2 | 4066.8 | 4106.5 | 4097.7 | 4108.8 | 4111.7 | 4099.5 | 4108.2 | 4098.9 | 4096.0 |
| 7°    | 3600.4 | 3557.8 | 3563.6 | 3547.3 | 3564.8 | 3576.5 | 3583.5 | 3562.5 | 3579.4 | 3606.2 | 3613.8 |
| 8°    | 3040.1 | 3027.8 | 3015.6 | 3044.7 | 3036.6 | 3050.5 | 3059.3 | 3082.6 | 3081.5 | 3089.6 | 3116.4 |
| 9°    | 2506.6 | 2524.6 | 2535.7 | 2510.1 | 2532.2 | 2489.1 | 2504.2 | 2566.6 | 2550.3 | 2566.6 | 2614.4 |
| 10°   | 2069.3 | 2083.8 | 2067.5 | 2066.9 | 2043.6 | 2015.0 | 2013.3 | 2036.6 | 2085.6 | 2124.1 | 2113.0 |
| 12.5° | 1141.6 | 1154.5 | 1156.2 | 1155.0 | 1113.1 | 1065.8 | 1074.6 | 1093.2 | 1123.5 | 1136.4 | 1157.4 |
| 15°   | 603.5  | 602.9  | 609.3  | 591.2  | 569.1  | 538.7  | 541.1  | 566.7  | 589.5  | 595.3  | 591.2  |
| 17.5° | 309.6  | 310.8  | 315.4  | 310.8  | 287.4  | 290.4  | 296.8  | 299.7  | 313.1  | 318.3  | 315.4  |
| 20°   | 174.3  | 174.9  | 174.3  | 176.1  | 166.8  | 169.1  | 177.2  | 177.8  | 180.7  | 183.7  | 183.1  |
| 22.5° | 99.7   | 100.3  | 103.8  | 102.6  | 100.3  | 103.2  | 105.0  | 107.9  | 109.0  | 107.9  | 111.4  |
| 25°   | 47.8   | 48.4   | 48.4   | 55.4   | 58.9   | 61.8   | 63.0   | 61.8   | 60.6   | 56.0   | 55.4   |
| 27.5° | 27.4   | 27.4   | 28.6   | 29.2   | 30.3   | 35.6   | 35.0   | 29.2   | 24.5   | 24.5   | 25.1   |
| 30°   | 16.3   | 15.7   | 15.7   | 16.3   | 16.9   | 17.5   | 16.3   | 15.7   | 15.7   | 16.3   | 15.7   |
| 32.5° | 9.9    | 9.9    | 9.9    | 9.3    | 9.3    | 8.7    | 8.7    | 9.9    | 9.9    | 9.9    | 9.9    |
| 35°   | 5.8    | 5.8    | 5.8    | 5.8    | 5.2    | 5.2    | 5.2    | 5.8    | 5.8    | 5.2    | 5.2    |
| 37.5° | 3.5    | 3.5    | 3.5    | 2.9    | 2.9    | 2.3    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 40°   | 2.3    | 2.3    | 1.7    | 1.7    | 1.2    | 1.2    | 1.2    | 1.7    | 1.7    | 1.7    | 1.7    |
| 42.5° | 1.7    | 1.7    | 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)