

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: P1326342

Luminaire Tested: LDSQA3D09R30W2N902750DE010 3LSQPHRL1MMS\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R30W2N902750DE010 3LSQPHRL1MMS\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 4000K CCT AND, 90CRI ,  
3LSQPHRL1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

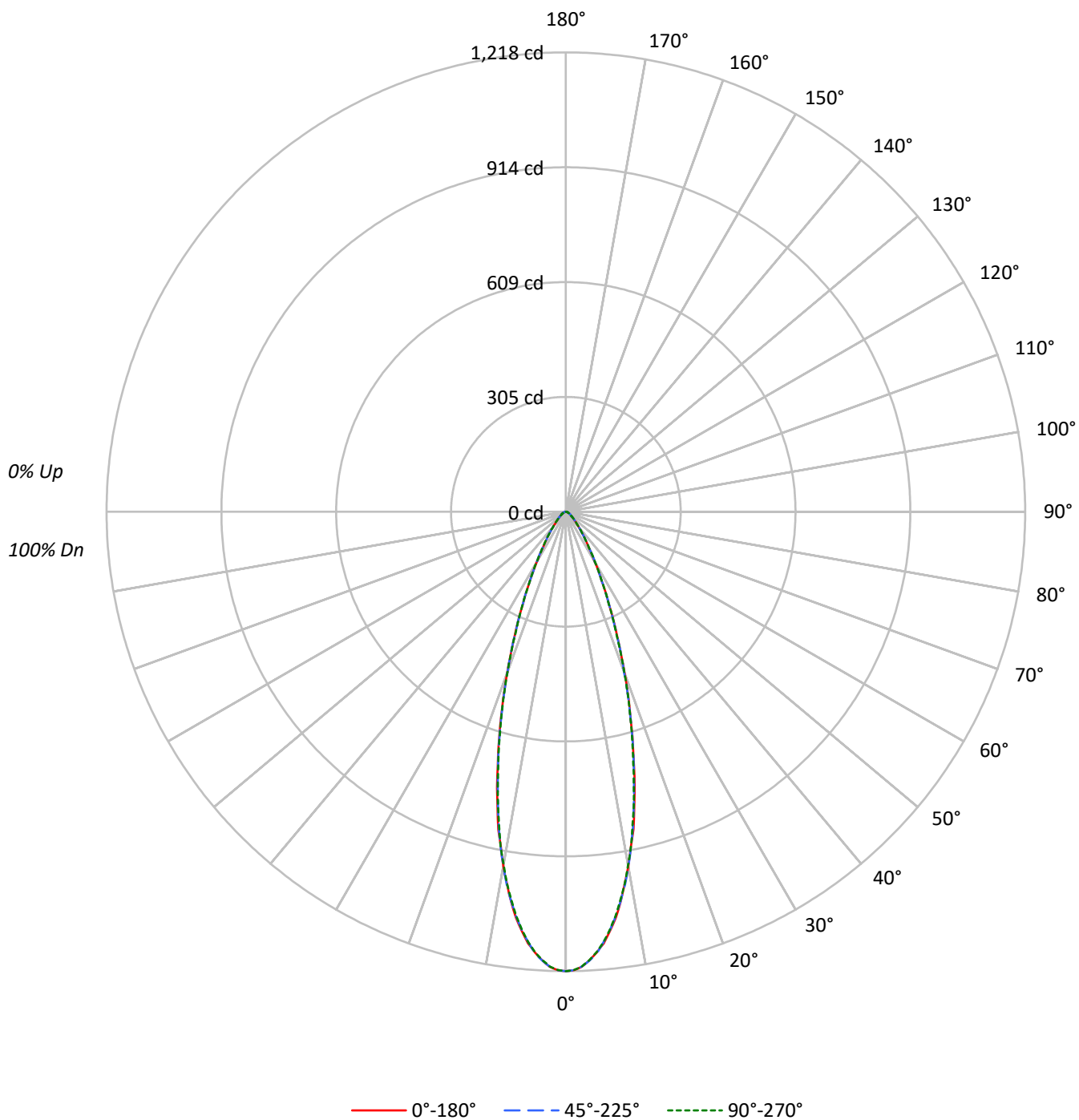
Lumens per Lamp: N/A  
Luminaire Lumens: 535.0 lumens  
Efficiency: N/A  
Efficacy: 59.4 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.57  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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   | 114 | 111 | 109 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98  | 98  | 97  | 96  | 96  | 96  | 94  |
| 2   | 108 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 99  | 96  | 93  | 96  | 93  | 91  | 93  | 91  | 90  | 90  | 90  | 88  |
| 3   | 103 | 97  | 93  | 89  | 101 | 96  | 92  | 88  | 93  | 90  | 87  | 91  | 88  | 85  | 89  | 86  | 84  | 84  | 84  | 83  |
| 4   | 99  | 92  | 87  | 83  | 97  | 91  | 86  | 82  | 89  | 84  | 81  | 87  | 83  | 80  | 85  | 82  | 79  | 79  | 79  | 78  |
| 5   | 95  | 87  | 81  | 77  | 93  | 86  | 81  | 77  | 84  | 80  | 76  | 82  | 79  | 76  | 81  | 78  | 75  | 75  | 75  | 74  |
| 6   | 90  | 82  | 77  | 73  | 89  | 82  | 76  | 73  | 80  | 76  | 72  | 79  | 75  | 72  | 77  | 74  | 71  | 71  | 71  | 70  |
| 7   | 87  | 78  | 73  | 69  | 86  | 78  | 72  | 69  | 76  | 72  | 68  | 75  | 71  | 68  | 74  | 71  | 68  | 68  | 68  | 66  |
| 8   | 83  | 75  | 69  | 66  | 82  | 74  | 69  | 65  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 65  | 65  | 63  |
| 9   | 80  | 71  | 66  | 62  | 79  | 71  | 66  | 62  | 70  | 65  | 62  | 69  | 65  | 62  | 68  | 65  | 62  | 62  | 62  | 61  |
| 10  | 77  | 68  | 63  | 60  | 76  | 68  | 63  | 60  | 67  | 63  | 59  | 66  | 62  | 59  | 66  | 62  | 59  | 59  | 59  | 58  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 209802 | 209802 | 209802 |
| 5°  | 198622 | 198121 | 198017 |
| 10° | 166870 | 166870 | 166240 |
| 15° | 124327 | 124006 | 123275 |
| 20° | 83207  | 82767  | 82877  |
| 25° | 51288  | 51174  | 51402  |
| 30° | 30844  | 30844  | 30963  |
| 35° | 18922  | 18922  | 19048  |
| 40° | 11983  | 11983  | 12253  |
| 45° | 8208   | 8354   | 8354   |
| 50° | 6028   | 6028   | 6028   |
| 55° | 4624   | 4804   | 4804   |
| 60° | 3858   | 3858   | 4064   |
| 65° | 3382   | 3382   | 3382   |
| 70° | 2971   | 3273   | 3273   |
| 75° | 2728   | 2728   | 2728   |
| 80° | 2380   | 2380   | 2380   |
| 85° | 1186   | 1186   | 1186   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 8354 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 103.3  | 19.3      |
| 10°-20°   | 190.7  | 35.6      |
| 20°-30°   | 126.8  | 23.7      |
| 30°-40°   | 58.6   | 11.0      |
| 40°-50°   | 27.2   | 5.1       |
| 50°-60°   | 14.5   | 2.7       |
| 60°-70°   | 8.5    | 1.6       |
| 70°-80°   | 4.5    | 0.8       |
| 80°-90°   | 1.0    | 0.2       |
| 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°    | 420.7  | 78.6      |
| 0°-40°    | 479.3  | 89.6      |
| 0°-60°    | 521.0  | 97.4      |
| 0°-90°    | 535.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 535.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1218 | 1218  | 1218 | 1218  | 1218 |      |
| 5°  | 1149 | 1147  | 1146 | 1149  | 1145 | 103  |
| 15° | 697  | 700   | 696  | 696   | 691  | 191  |
| 25° | 270  | 269   | 269  | 269   | 270  | 127  |
| 35° | 90   | 89    | 90   | 91    | 91   | 58   |
| 45° | 34   | 34    | 34   | 34    | 34   | 27   |
| 55° | 15   | 16    | 16   | 16    | 16   | 14   |
| 65° | 8    | 8     | 8    | 8     | 8    | 8    |
| 75° | 4    | 4     | 4    | 4     | 4    | 4    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1218.2 | 1218.2 | 1218.2 | 1218.2 | 1218.2 |
| 1°    | 1215.8 | 1214.6 | 1215.8 | 1217.6 | 1215.2 |
| 2°    | 1207.5 | 1206.4 | 1206.4 | 1208.7 | 1206.4 |
| 3°    | 1191.6 | 1192.7 | 1192.2 | 1194.5 | 1190.4 |
| 4°    | 1171.4 | 1170.8 | 1173.2 | 1174.4 | 1170.8 |
| 5°    | 1148.9 | 1146.6 | 1146.0 | 1148.9 | 1145.4 |
| 6°    | 1118.2 | 1116.4 | 1115.2 | 1118.8 | 1114.0 |
| 7°    | 1085.0 | 1083.8 | 1082.1 | 1083.2 | 1079.7 |
| 8°    | 1044.2 | 1043.6 | 1042.4 | 1043.6 | 1039.4 |
| 9°    | 998.6  | 998.6  | 1001.0 | 1000.4 | 998.0  |
| 10°   | 954.2  | 955.4  | 954.2  | 955.4  | 950.6  |
| 11°   | 904.5  | 904.5  | 905.7  | 905.1  | 905.7  |
| 12°   | 861.3  | 856.5  | 855.3  | 854.2  | 850.6  |
| 13°   | 805.6  | 802.1  | 800.9  | 802.1  | 800.3  |
| 14°   | 754.7  | 752.3  | 746.4  | 747.6  | 745.2  |
| 15°   | 697.3  | 699.7  | 695.5  | 695.5  | 691.4  |
| 17.5° | 570.0  | 567.7  | 568.8  | 569.4  | 567.7  |
| 20°   | 454.0  | 452.8  | 451.6  | 450.5  | 452.2  |
| 22.5° | 352.8  | 353.4  | 352.2  | 351.0  | 349.8  |
| 25°   | 269.9  | 269.3  | 269.3  | 269.3  | 270.5  |
| 27.5° | 204.8  | 204.8  | 204.8  | 205.4  | 205.4  |
| 30°   | 155.1  | 153.9  | 155.1  | 155.7  | 155.7  |
| 32.5° | 116.0  | 117.2  | 117.8  | 117.8  | 117.8  |
| 35°   | 90.0   | 89.4   | 90.0   | 90.6   | 90.6   |
| 37.5° | 68.7   | 68.7   | 69.3   | 69.3   | 69.8   |
| 40°   | 53.3   | 53.3   | 53.3   | 53.9   | 54.5   |
| 42.5° | 42.0   | 42.0   | 42.6   | 42.6   | 43.2   |
| 45°   | 33.7   | 33.7   | 34.3   | 34.3   | 34.3   |
| 47.5° | 27.2   | 27.2   | 27.8   | 27.8   | 27.8   |
| 50°   | 22.5   | 22.5   | 22.5   | 22.5   | 22.5   |
| 52.5° | 18.9   | 18.3   | 18.9   | 18.9   | 18.9   |
| 55°   | 15.4   | 16.0   | 16.0   | 16.0   | 16.0   |
| 57.5° | 13.0   | 13.6   | 13.6   | 13.6   | 13.6   |
| 60°   | 11.2   | 11.2   | 11.2   | 11.8   | 11.8   |
| 62.5° | 9.5    | 10.1   | 10.1   | 10.1   | 10.1   |
| 65°   | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    |
| 67.5° | 7.1    | 7.1    | 7.1    | 7.1    | 7.7    |
| 70°   | 5.9    | 5.9    | 6.5    | 6.5    | 6.5    |
| 72.5° | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    |
| 75°   | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    |
| 77.5° | 3.0    | 3.0    | 3.6    | 3.6    | 3.0    |
| 80°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 82.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 85°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|     | 0°  | 22.5° | 45° | 67.5° | 90° |
|-----|-----|-------|-----|-------|-----|
| 90° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |

(END OF REPORT)