

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: P1326436

Luminaire Tested: LDSQA3D09R30W2N902765DE010 3LSQPHRL1MB\_6500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326436  
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: LDSQA3D09R30W2N902765DE010 3LSQPHRL1MB\_6500K  
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 6500K CCT AND, 90CRI ,  
3LSQPHRL1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

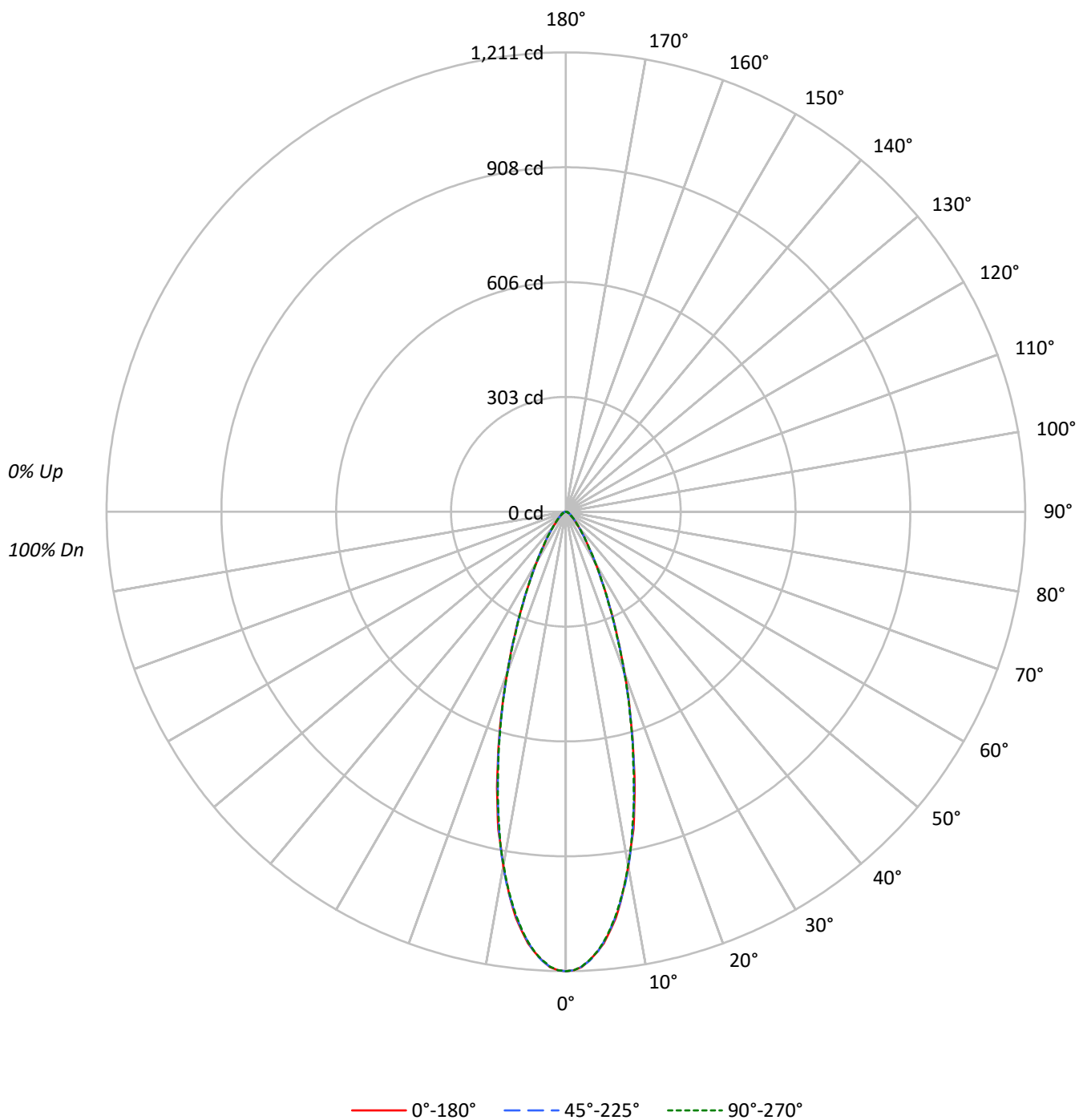
Lumens per Lamp: N/A  
Luminaire Lumens: 532.0 lumens  
Efficiency: N/A  
Efficacy: 59.1 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.57  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 100 | 100 | 100 |
| 1   | 114 | 111 | 109 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98  | 98  | 97  | 96  | 94  | 94  | 94  |
| 2   | 108 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 99  | 96  | 93  | 96  | 93  | 91  | 93  | 91  | 90  | 88  | 88  | 88  |
| 3   | 103 | 97  | 93  | 89  | 101 | 96  | 92  | 88  | 93  | 90  | 87  | 91  | 88  | 85  | 89  | 86  | 84  | 83  | 83  | 83  |
| 4   | 99  | 92  | 87  | 83  | 97  | 91  | 86  | 82  | 89  | 84  | 81  | 87  | 83  | 80  | 85  | 82  | 79  | 78  | 78  | 78  |
| 5   | 95  | 87  | 81  | 77  | 93  | 86  | 81  | 77  | 84  | 80  | 76  | 82  | 79  | 76  | 81  | 78  | 75  | 74  | 74  | 74  |
| 6   | 90  | 82  | 77  | 73  | 89  | 82  | 76  | 73  | 80  | 76  | 72  | 79  | 75  | 72  | 77  | 74  | 71  | 70  | 70  | 70  |
| 7   | 87  | 78  | 73  | 69  | 86  | 78  | 72  | 69  | 76  | 72  | 68  | 75  | 71  | 68  | 74  | 71  | 68  | 66  | 66  | 66  |
| 8   | 83  | 75  | 69  | 66  | 82  | 74  | 69  | 65  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 63  | 63  | 63  |
| 9   | 80  | 71  | 66  | 62  | 79  | 71  | 66  | 62  | 70  | 65  | 62  | 69  | 65  | 62  | 68  | 65  | 62  | 61  | 61  | 61  |
| 10  | 77  | 68  | 63  | 60  | 76  | 68  | 63  | 60  | 67  | 63  | 59  | 66  | 62  | 59  | 66  | 62  | 59  | 58  | 58  | 58  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 208631 | 208631 | 208631 |
| 5°  | 197516 | 197015 | 196911 |
| 10° | 165926 | 165926 | 165314 |
| 15° | 123632 | 123311 | 122580 |
| 20° | 82749  | 82309  | 82419  |
| 25° | 51003  | 50889  | 51117  |
| 30° | 30665  | 30665  | 30784  |
| 35° | 18817  | 18817  | 18943  |
| 40° | 11915  | 11915  | 12185  |
| 45° | 8184   | 8305   | 8305   |
| 50° | 6002   | 6002   | 6002   |
| 55° | 4594   | 4774   | 4774   |
| 60° | 3858   | 3858   | 4064   |
| 65° | 3342   | 3342   | 3342   |
| 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: 8305 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 102.7  | 19.3      |
| 10°-20°   | 189.6  | 35.6      |
| 20°-30°   | 126.0  | 23.7      |
| 30°-40°   | 58.3   | 11.0      |
| 40°-50°   | 27.1   | 5.1       |
| 50°-60°   | 14.4   | 2.7       |
| 60°-70°   | 8.4    | 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       |
| 0°-30°    | 418.3  | 78.6      |
| 0°-40°    | 476.6  | 89.6      |
| 0°-60°    | 518.1  | 97.4      |
| 0°-90°    | 532.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 532.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1211 | 1211  | 1211 | 1211  | 1211 |      |
| 5°  | 1142 | 1140  | 1140 | 1142  | 1139 | 103  |
| 15° | 693  | 696   | 692  | 692   | 688  | 190  |
| 25° | 268  | 268   | 268  | 268   | 269  | 126  |
| 35° | 90   | 89    | 90   | 90    | 90   | 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    |      |

TEST NUMBER: P1326436

CATALOG NUMBER: LDSQA3D09R30W2N902765DE010 3LSQPHRL1MB\_6500K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1211.4 | 1211.4 | 1211.4 | 1211.4 | 1211.4 |
| 1°    | 1209.0 | 1207.8 | 1209.0 | 1210.8 | 1208.4 |
| 2°    | 1200.8 | 1199.6 | 1199.6 | 1201.9 | 1199.6 |
| 3°    | 1184.9 | 1186.1 | 1185.5 | 1187.8 | 1183.7 |
| 4°    | 1164.9 | 1164.3 | 1166.6 | 1167.8 | 1164.3 |
| 5°    | 1142.5 | 1140.1 | 1139.6 | 1142.5 | 1139.0 |
| 6°    | 1111.9 | 1110.1 | 1108.9 | 1112.5 | 1107.8 |
| 7°    | 1078.9 | 1077.8 | 1076.0 | 1077.2 | 1073.6 |
| 8°    | 1038.3 | 1037.7 | 1036.5 | 1037.7 | 1033.6 |
| 9°    | 993.0  | 993.0  | 995.3  | 994.8  | 992.4  |
| 10°   | 948.8  | 950.0  | 948.8  | 950.0  | 945.3  |
| 11°   | 899.4  | 899.4  | 900.6  | 900.0  | 900.6  |
| 12°   | 856.4  | 851.7  | 850.5  | 849.4  | 845.8  |
| 13°   | 801.1  | 797.6  | 796.4  | 797.6  | 795.8  |
| 14°   | 750.5  | 748.1  | 742.2  | 743.4  | 741.1  |
| 15°   | 693.4  | 695.7  | 691.6  | 691.6  | 687.5  |
| 17.5° | 566.8  | 564.5  | 565.7  | 566.2  | 564.5  |
| 20°   | 451.5  | 450.3  | 449.1  | 447.9  | 449.7  |
| 22.5° | 350.8  | 351.4  | 350.2  | 349.0  | 347.9  |
| 25°   | 268.4  | 267.8  | 267.8  | 267.8  | 269.0  |
| 27.5° | 203.7  | 203.7  | 203.7  | 204.2  | 204.2  |
| 30°   | 154.2  | 153.0  | 154.2  | 154.8  | 154.8  |
| 32.5° | 115.4  | 116.5  | 117.1  | 117.1  | 117.1  |
| 35°   | 89.5   | 88.9   | 89.5   | 90.1   | 90.1   |
| 37.5° | 68.3   | 68.3   | 68.9   | 68.9   | 69.5   |
| 40°   | 53.0   | 53.0   | 53.0   | 53.6   | 54.2   |
| 42.5° | 41.8   | 41.8   | 42.4   | 42.4   | 43.0   |
| 45°   | 33.6   | 33.6   | 34.1   | 34.1   | 34.1   |
| 47.5° | 27.1   | 27.1   | 27.7   | 27.7   | 27.7   |
| 50°   | 22.4   | 22.4   | 22.4   | 22.4   | 22.4   |
| 52.5° | 18.8   | 18.2   | 18.8   | 18.8   | 18.8   |
| 55°   | 15.3   | 15.9   | 15.9   | 15.9   | 15.9   |
| 57.5° | 12.9   | 13.5   | 13.5   | 13.5   | 13.5   |
| 60°   | 11.2   | 11.2   | 11.2   | 11.8   | 11.8   |
| 62.5° | 9.4    | 10.0   | 10.0   | 10.0   | 10.0   |
| 65°   | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    |
| 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° | 2.9    | 2.9    | 3.5    | 3.5    | 2.9    |
| 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)