

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: P1311371

Luminaire Tested: LDSQA3D09R559040DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311371  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R559040DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

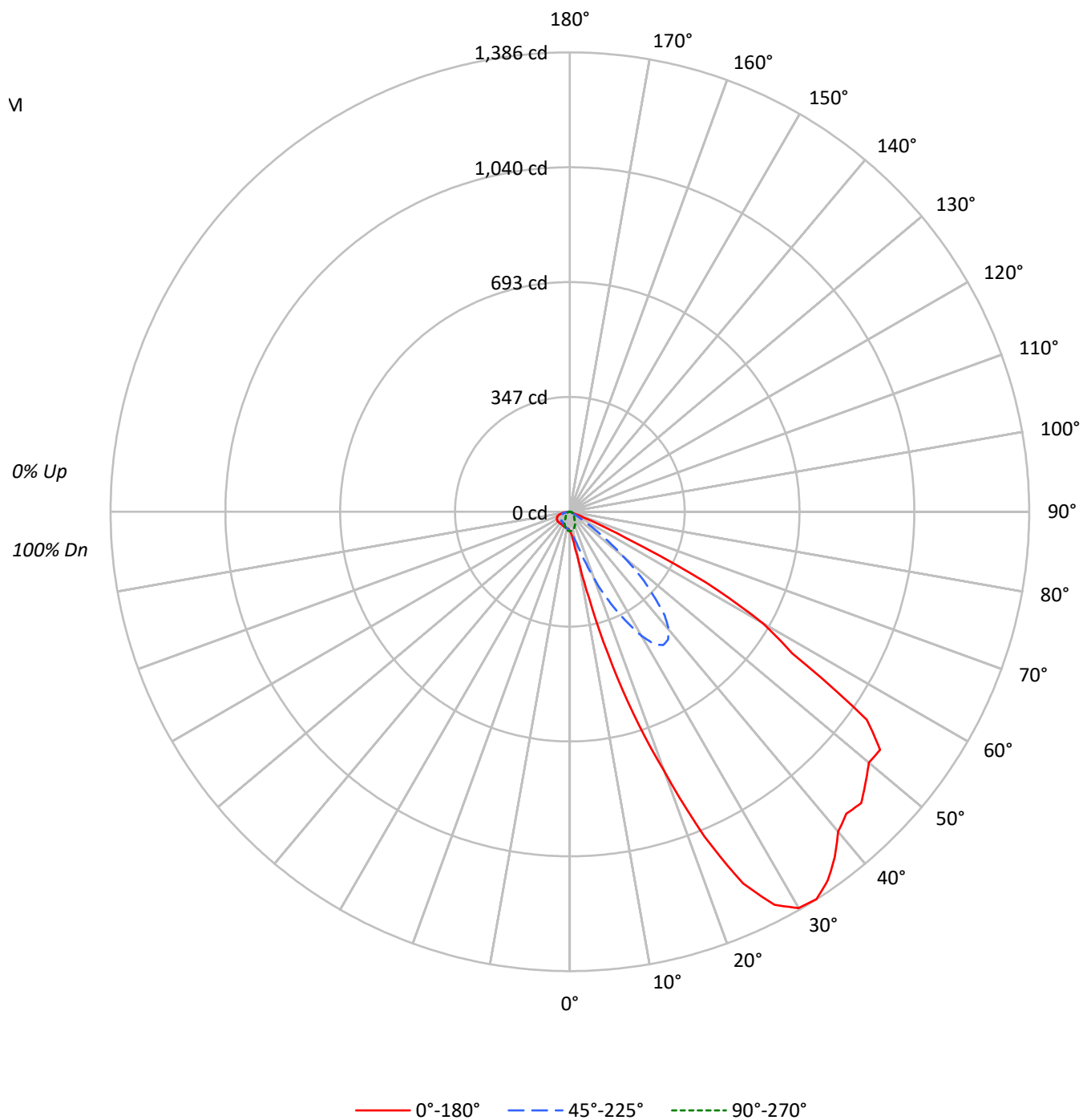
Lumens per Lamp: N/A  
Luminaire Lumens: 891.0 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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  |     |    | 0  |
| 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 |    |    |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 71  | 65  | 74  | 69  | 64  | 72  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 51  |    |    |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 47  | 58  | 51  | 46  | 56  | 50  | 46  | 43  |    |    |
| 6   | 69  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  | 51  | 45  | 39  | 50  | 44  | 39  | 37  |    |    |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  | 32  |    |    |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 43  | 35  | 30  | 41  | 35  | 29  | 40  | 34  | 29  | 27  |    |    |
| 9   | 54  | 40  | 32  | 26  | 53  | 40  | 32  | 26  | 39  | 31  | 26  | 38  | 31  | 26  | 36  | 30  | 26  | 24  |    |    |
| 10  | 50  | 37  | 28  | 23  | 49  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 33  | 27  | 23  | 21  |    |    |

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

|     | 0°     | 45°    | 90°  | 135°  | 180°  |
|-----|--------|--------|------|-------|-------|
| 0°  | 9903   | 9903   | 9903 | 9903  | 9903  |
| 5°  | 12655  | 11566  | 9941 | 9249  | 8990  |
| 10° | 25742  | 14725  | 9636 | 8814  | 8814  |
| 15° | 79022  | 22590  | 8986 | 8558  | 8844  |
| 20° | 152797 | 39533  | 8082 | 8376  | 8797  |
| 25° | 235177 | 61493  | 7031 | 8076  | 8817  |
| 30° | 274594 | 85950  | 5787 | 7975  | 9088  |
| 35° | 285345 | 103272 | 4794 | 7947  | 9440  |
| 40° | 283184 | 104249 | 4429 | 8318  | 10274 |
| 45° | 302769 | 86293  | 4214 | 9012  | 11131 |
| 50° | 315542 | 56962  | 4207 | 9699  | 12432 |
| 55° | 328576 | 24832  | 4264 | 10629 | 13722 |
| 60° | 232122 | 5683   | 4340 | 11677 | 15466 |
| 65° | 75716  | 1915   | 4157 | 12511 | 17319 |
| 70° | 2367   | 1964   | 4381 | 13495 | 19840 |
| 75° | 2063   | 2063   | 3660 | 14173 | 22025 |
| 80° | 1587   | 2380   | 3868 | 14083 | 23406 |
| 85° | 1581   | 3162   | 4742 | 14030 | 23317 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 333858 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.1    | 0.7       |
| 10°-20°   | 37.8   | 4.2       |
| 20°-30°   | 126.8  | 14.2      |
| 30°-40°   | 208.3  | 23.4      |
| 40°-50°   | 232.3  | 26.1      |
| 50°-60°   | 195.5  | 21.9      |
| 60°-70°   | 66.3   | 7.4       |
| 70°-80°   | 13.0   | 1.5       |
| 80°-90°   | 4.9    | 0.5       |
| 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°    | 170.7  | 19.2      |
| 0°-40°    | 379.0  | 42.5      |
| 0°-60°    | 806.8  | 90.6      |
| 0°-90°    | 891.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 891.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 58   | 58  | 58  | 58   | 58   |      |
| 5°  | 73   | 67  | 58  | 54   | 52   | 9    |
| 15° | 443  | 127 | 50  | 48   | 50   | 141  |
| 25° | 1238 | 324 | 37  | 42   | 46   | 556  |
| 35° | 1357 | 491 | 23  | 38   | 45   | 843  |
| 45° | 1243 | 354 | 17  | 37   | 46   | 949  |
| 55° | 1094 | 83  | 14  | 35   | 46   | 891  |
| 65° | 186  | 5   | 10  | 31   | 42   | 252  |
| 75° | 3    | 3   | 6   | 21   | 33   | 3    |
| 85° | 1    | 2   | 2   | 7    | 12   | 1    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 45°   | 67.5° | 90°  | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|------|
| 0°    | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5  | 57.5  | 57.5 | 57.5   | 57.5 |
| 2.5°  | 63.0   | 63.0   | 63.0   | 63.0   | 63.0   | 63.0   | 62.2  | 59.8  | 58.3 | 55.9   | 55.1 |
| 5°    | 73.2   | 73.2   | 73.2   | 72.4   | 72.4   | 70.9   | 66.9  | 61.4  | 57.5 | 54.3   | 53.5 |
| 7.5°  | 94.5   | 93.7   | 92.1   | 91.3   | 89.0   | 88.2   | 74.0  | 63.0  | 56.7 | 52.7   | 52.0 |
| 10°   | 147.2  | 145.6  | 143.3  | 134.6  | 126.7  | 121.2  | 84.2  | 63.8  | 55.1 | 51.2   | 50.4 |
| 12.5° | 265.3  | 262.2  | 250.3  | 232.2  | 210.2  | 199.2  | 100.8 | 64.6  | 52.7 | 49.6   | 49.6 |
| 15°   | 443.2  | 439.3  | 417.2  | 392.1  | 351.9  | 329.9  | 126.7 | 63.8  | 50.4 | 47.2   | 48.0 |
| 17.5° | 640.0  | 629.0  | 606.2  | 573.1  | 518.8  | 492.8  | 165.3 | 62.2  | 47.2 | 45.7   | 47.2 |
| 20°   | 833.7  | 830.6  | 792.8  | 747.9  | 681.0  | 646.3  | 215.7 | 59.8  | 44.1 | 43.3   | 45.7 |
| 22.5° | 1060.4 | 1047.0 | 1006.9 | 958.9  | 866.8  | 821.1  | 270.0 | 56.7  | 40.9 | 40.9   | 44.1 |
| 25°   | 1237.6 | 1221.8 | 1190.3 | 1134.4 | 1047.0 | 998.2  | 323.6 | 52.7  | 37.0 | 38.6   | 42.5 |
| 27.5° | 1336.8 | 1318.6 | 1295.0 | 1247.0 | 1179.3 | 1136.0 | 377.1 | 48.0  | 33.1 | 36.2   | 40.9 |
| 30°   | 1380.8 | 1376.1 | 1358.8 | 1323.4 | 1261.2 | 1222.6 | 432.2 | 42.5  | 29.1 | 33.9   | 40.1 |
| 32.5° | 1385.6 | 1387.9 | 1380.8 | 1358.0 | 1310.8 | 1277.7 | 473.1 | 37.8  | 26.0 | 32.3   | 38.6 |
| 35°   | 1357.2 | 1365.9 | 1370.6 | 1361.2 | 1330.5 | 1303.7 | 491.2 | 32.3  | 22.8 | 30.7   | 37.8 |
| 37.5° | 1313.1 | 1328.9 | 1344.6 | 1347.0 | 1328.1 | 1310.8 | 486.5 | 27.6  | 21.3 | 29.9   | 37.8 |
| 40°   | 1259.6 | 1273.8 | 1306.1 | 1326.5 | 1320.2 | 1307.6 | 463.7 | 22.8  | 19.7 | 28.3   | 37.0 |
| 42.5° | 1235.2 | 1238.3 | 1273.0 | 1307.6 | 1306.1 | 1295.8 | 423.5 | 18.1  | 18.1 | 28.3   | 37.0 |
| 45°   | 1243.1 | 1228.9 | 1251.7 | 1291.9 | 1289.5 | 1276.1 | 354.3 | 14.2  | 17.3 | 27.6   | 37.0 |
| 47.5° | 1210.0 | 1190.3 | 1228.9 | 1276.1 | 1267.5 | 1247.8 | 292.9 | 10.2  | 16.5 | 26.8   | 36.2 |
| 50°   | 1177.7 | 1174.6 | 1204.5 | 1228.1 | 1216.3 | 1205.3 | 212.6 | 7.9   | 15.7 | 26.0   | 36.2 |
| 52.5° | 1180.1 | 1174.6 | 1177.7 | 1176.9 | 1153.3 | 1141.5 | 145.6 | 6.3   | 15.0 | 25.2   | 36.2 |
| 55°   | 1094.3 | 1077.0 | 1060.4 | 1065.2 | 1066.7 | 1058.9 | 82.7  | 5.5   | 14.2 | 25.2   | 35.4 |
| 57.5° | 795.1  | 790.4  | 808.5  | 859.7  | 899.8  | 904.6  | 40.1  | 5.5   | 13.4 | 24.4   | 34.6 |
| 60°   | 673.9  | 670.7  | 671.5  | 686.5  | 707.7  | 694.4  | 16.5  | 5.5   | 12.6 | 23.6   | 33.9 |
| 62.5° | 464.5  | 495.2  | 507.8  | 542.4  | 528.2  | 509.4  | 6.3   | 6.3   | 11.8 | 22.0   | 33.1 |
| 65°   | 185.8  | 185.0  | 202.3  | 218.9  | 214.1  | 200.0  | 4.7   | 5.5   | 10.2 | 20.5   | 30.7 |
| 67.5° | 43.3   | 39.4   | 33.9   | 29.1   | 24.4   | 19.7   | 4.7   | 5.5   | 9.4  | 18.9   | 29.1 |
| 70°   | 4.7    | 4.7    | 4.7    | 4.7    | 4.7    | 3.9    | 3.9   | 5.5   | 8.7  | 17.3   | 26.8 |
| 72.5° | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9   | 4.7   | 7.1  | 15.0   | 24.4 |
| 75°   | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1   | 3.9   | 5.5  | 12.6   | 21.3 |
| 77.5° | 2.4    | 2.4    | 2.4    | 3.1    | 2.4    | 3.1    | 3.1   | 3.9   | 4.7  | 10.2   | 18.1 |
| 80°   | 1.6    | 1.6    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4   | 3.1   | 3.9  | 8.7    | 14.2 |
| 82.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 2.4   | 2.4   | 3.1  | 6.3    | 10.2 |
| 85°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 1.6    | 1.6   | 2.4   | 2.4  | 4.7    | 7.1  |
| 87.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 1.6   | 1.6   | 2.4  | 2.4    | 3.1  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  |

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**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 57.5   | 57.5 |
| 2.5°  | 54.3   | 54.3 |
| 5°    | 52.7   | 52.0 |
| 7.5°  | 51.2   | 51.2 |
| 10°   | 50.4   | 50.4 |
| 12.5° | 49.6   | 50.4 |
| 15°   | 49.6   | 49.6 |
| 17.5° | 48.0   | 48.8 |
| 20°   | 47.2   | 48.0 |
| 22.5° | 46.4   | 47.2 |
| 25°   | 45.7   | 46.4 |
| 27.5° | 44.9   | 45.7 |
| 30°   | 44.1   | 45.7 |
| 32.5° | 43.3   | 44.9 |
| 35°   | 43.3   | 44.9 |
| 37.5° | 43.3   | 45.7 |
| 40°   | 43.3   | 45.7 |
| 42.5° | 43.3   | 45.7 |
| 45°   | 43.3   | 45.7 |
| 47.5° | 43.3   | 45.7 |
| 50°   | 43.3   | 46.4 |
| 52.5° | 43.3   | 46.4 |
| 55°   | 43.3   | 45.7 |
| 57.5° | 42.5   | 45.7 |
| 60°   | 42.5   | 44.9 |
| 62.5° | 41.7   | 44.1 |
| 65°   | 40.1   | 42.5 |
| 67.5° | 38.6   | 41.7 |
| 70°   | 36.2   | 39.4 |
| 72.5° | 33.9   | 36.2 |
| 75°   | 30.7   | 33.1 |
| 77.5° | 26.8   | 28.3 |
| 80°   | 21.3   | 23.6 |
| 82.5° | 16.5   | 18.1 |
| 85°   | 11.0   | 11.8 |
| 87.5° | 4.7    | 5.5  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)