

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: P1316482

Luminaire Tested: LDSQA3D09R559740DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316482  
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: LDSQA3D09R559740DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

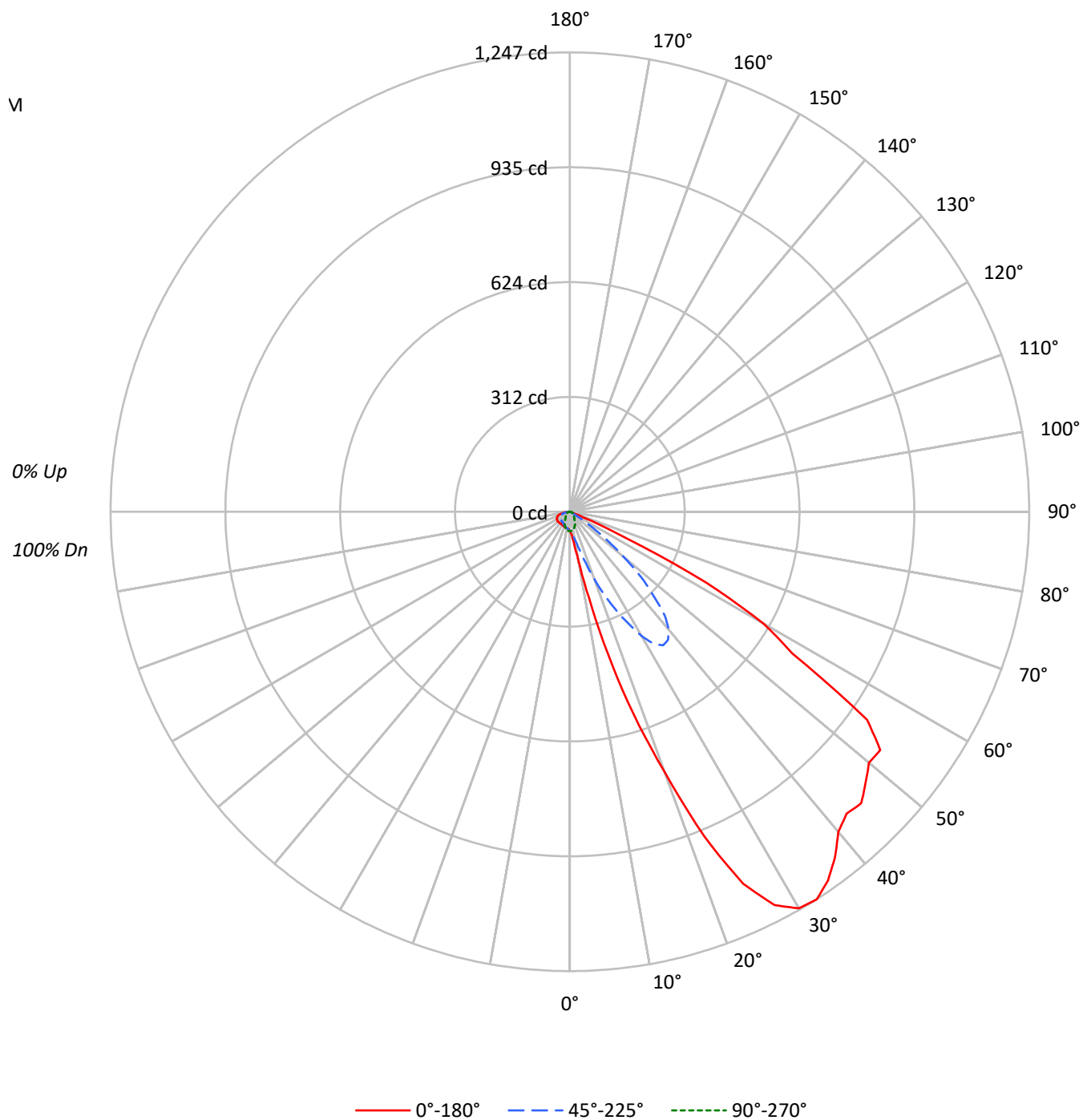
Lumens per Lamp: N/A  
Luminaire Lumens: 802.0 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |  |  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |  |  |
| 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°  | 8904   | 8904  | 8904 | 8904  | 8904  |
| 5°  | 11393  | 10407 | 8938 | 8333  | 8091  |
| 10° | 23172  | 13256 | 8674 | 7940  | 7940  |
| 15° | 71141  | 20344 | 8095 | 7702  | 7952  |
| 20° | 137530 | 35592 | 7276 | 7533  | 7918  |
| 25° | 211671 | 55336 | 6328 | 7278  | 7943  |
| 30° | 247170 | 77359 | 5210 | 7179  | 8173  |
| 35° | 256856 | 92970 | 4310 | 7148  | 8494  |
| 40° | 254902 | 93840 | 3979 | 7487  | 9240  |
| 45° | 272519 | 77671 | 3800 | 8111  | 10010 |
| 50° | 284034 | 51255 | 3805 | 8735  | 11200 |
| 55° | 295757 | 22339 | 3843 | 9578  | 12341 |
| 60° | 208941 | 5132  | 3892 | 10506 | 13916 |
| 65° | 68136  | 1752  | 3749 | 11247 | 15608 |
| 70° | 2165   | 1762  | 3928 | 12135 | 17826 |
| 75° | 1863   | 1863  | 3327 | 12709 | 19829 |
| 80° | 1389   | 2083  | 3471 | 12695 | 21125 |
| 85° | 1383   | 2766  | 4150 | 12647 | 20946 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle:  $52.5^\circ$

Luminance: 300503 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.5    | 0.7       |
| 10°-20°   | 34.0   | 4.2       |
| 20°-30°   | 114.1  | 14.2      |
| 30°-40°   | 187.5  | 23.4      |
| 40°-50°   | 209.1  | 26.1      |
| 50°-60°   | 176.0  | 21.9      |
| 60°-70°   | 59.7   | 7.4       |
| 70°-80°   | 11.7   | 1.5       |
| 80°-90°   | 4.4    | 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°    | 153.7  | 19.2      |
| 0°-40°    | 341.1  | 42.5      |
| 0°-60°    | 726.3  | 90.6      |
| 0°-90°    | 802.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 802.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 52   | 52  | 52  | 52   | 52   |      |
| 5°  | 66   | 60  | 52  | 48   | 47   | 8    |
| 15° | 399  | 114 | 45  | 43   | 45   | 127  |
| 25° | 1114 | 291 | 33  | 38   | 42   | 501  |
| 35° | 1222 | 442 | 20  | 34   | 40   | 759  |
| 45° | 1119 | 319 | 16  | 33   | 41   | 854  |
| 55° | 985  | 74  | 13  | 32   | 41   | 802  |
| 65° | 167  | 4   | 9   | 28   | 38   | 226  |
| 75° | 3    | 3   | 5   | 19   | 30   | 3    |
| 85° | 1    | 1   | 2   | 6    | 11   | 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°    | 51.7   | 51.7   | 51.7   | 51.7   | 51.7   | 51.7   | 51.7  | 51.7  | 51.7 | 51.7   | 51.7 |
| 2.5°  | 56.7   | 56.7   | 56.7   | 56.7   | 56.7   | 56.7   | 56.0  | 53.9  | 52.4 | 50.3   | 49.6 |
| 5°    | 65.9   | 65.9   | 65.9   | 65.2   | 65.2   | 63.8   | 60.2  | 55.3  | 51.7 | 48.9   | 48.2 |
| 7.5°  | 85.0   | 84.3   | 82.9   | 82.2   | 80.1   | 79.4   | 66.6  | 56.7  | 51.0 | 47.5   | 46.8 |
| 10°   | 132.5  | 131.1  | 129.0  | 121.2  | 114.1  | 109.1  | 75.8  | 57.4  | 49.6 | 46.1   | 45.4 |
| 12.5° | 238.8  | 236.0  | 225.3  | 209.0  | 189.2  | 179.3  | 90.7  | 58.1  | 47.5 | 44.6   | 44.6 |
| 15°   | 399.0  | 395.4  | 375.6  | 352.9  | 316.8  | 296.9  | 114.1 | 57.4  | 45.4 | 42.5   | 43.2 |
| 17.5° | 576.1  | 566.2  | 545.6  | 515.9  | 467.0  | 443.6  | 148.8 | 56.0  | 42.5 | 41.1   | 42.5 |
| 20°   | 750.4  | 747.6  | 713.6  | 673.2  | 613.0  | 581.8  | 194.2 | 53.9  | 39.7 | 39.0   | 41.1 |
| 22.5° | 954.5  | 942.5  | 906.3  | 863.1  | 780.2  | 739.1  | 243.1 | 51.0  | 36.8 | 36.8   | 39.7 |
| 25°   | 1113.9 | 1099.8 | 1071.4 | 1021.1 | 942.5  | 898.5  | 291.2 | 47.5  | 33.3 | 34.7   | 38.3 |
| 27.5° | 1203.2 | 1186.9 | 1165.7 | 1122.4 | 1061.5 | 1022.5 | 339.4 | 43.2  | 29.8 | 32.6   | 36.8 |
| 30°   | 1242.9 | 1238.7 | 1223.1 | 1191.2 | 1135.2 | 1100.5 | 389.0 | 38.3  | 26.2 | 30.5   | 36.1 |
| 32.5° | 1247.2 | 1249.3 | 1242.9 | 1222.4 | 1179.8 | 1150.1 | 425.9 | 34.0  | 23.4 | 29.1   | 34.7 |
| 35°   | 1221.7 | 1229.4 | 1233.7 | 1225.2 | 1197.6 | 1173.5 | 442.2 | 29.1  | 20.5 | 27.6   | 34.0 |
| 37.5° | 1182.0 | 1196.1 | 1210.3 | 1212.4 | 1195.4 | 1179.8 | 437.9 | 24.8  | 19.1 | 26.9   | 34.0 |
| 40°   | 1133.8 | 1146.5 | 1175.6 | 1194.0 | 1188.3 | 1177.0 | 417.4 | 20.5  | 17.7 | 25.5   | 33.3 |
| 42.5° | 1111.8 | 1114.7 | 1145.8 | 1177.0 | 1175.6 | 1166.4 | 381.2 | 16.3  | 16.3 | 25.5   | 33.3 |
| 45°   | 1118.9 | 1106.1 | 1126.7 | 1162.8 | 1160.7 | 1148.7 | 318.9 | 12.8  | 15.6 | 24.8   | 33.3 |
| 47.5° | 1089.1 | 1071.4 | 1106.1 | 1148.7 | 1140.9 | 1123.2 | 263.6 | 9.2   | 14.9 | 24.1   | 32.6 |
| 50°   | 1060.1 | 1057.3 | 1084.2 | 1105.4 | 1094.8 | 1084.9 | 191.3 | 7.1   | 14.2 | 23.4   | 32.6 |
| 52.5° | 1062.2 | 1057.3 | 1060.1 | 1059.4 | 1038.1 | 1027.5 | 131.1 | 5.7   | 13.5 | 22.7   | 32.6 |
| 55°   | 985.0  | 969.4  | 954.5  | 958.8  | 960.2  | 953.1  | 74.4  | 5.0   | 12.8 | 22.7   | 31.9 |
| 57.5° | 715.7  | 711.4  | 727.7  | 773.8  | 809.9  | 814.2  | 36.1  | 5.0   | 12.0 | 22.0   | 31.2 |
| 60°   | 606.6  | 603.7  | 604.4  | 617.9  | 637.0  | 625.0  | 14.9  | 5.0   | 11.3 | 21.3   | 30.5 |
| 62.5° | 418.1  | 445.7  | 457.1  | 488.2  | 475.5  | 458.5  | 5.7   | 5.7   | 10.6 | 19.8   | 29.8 |
| 65°   | 167.2  | 166.5  | 182.1  | 197.0  | 192.7  | 180.0  | 4.3   | 5.0   | 9.2  | 18.4   | 27.6 |
| 67.5° | 39.0   | 35.4   | 30.5   | 26.2   | 22.0   | 17.7   | 4.3   | 5.0   | 8.5  | 17.0   | 26.2 |
| 70°   | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 3.5    | 3.5   | 5.0   | 7.8  | 15.6   | 24.1 |
| 72.5° | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5   | 4.3   | 6.4  | 13.5   | 22.0 |
| 75°   | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8   | 3.5   | 5.0  | 11.3   | 19.1 |
| 77.5° | 2.1    | 2.1    | 2.1    | 2.8    | 2.1    | 2.8    | 2.8   | 3.5   | 4.3  | 9.2    | 16.3 |
| 80°   | 1.4    | 1.4    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1   | 2.8   | 3.5  | 7.8    | 12.8 |
| 82.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 2.1   | 2.1   | 2.8  | 5.7    | 9.2  |
| 85°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.4    | 1.4   | 2.1   | 2.1  | 4.3    | 6.4  |
| 87.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.4   | 1.4   | 2.1  | 2.1    | 2.8  |
| 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°    | 51.7   | 51.7 |
| 2.5°  | 48.9   | 48.9 |
| 5°    | 47.5   | 46.8 |
| 7.5°  | 46.1   | 46.1 |
| 10°   | 45.4   | 45.4 |
| 12.5° | 44.6   | 45.4 |
| 15°   | 44.6   | 44.6 |
| 17.5° | 43.2   | 43.9 |
| 20°   | 42.5   | 43.2 |
| 22.5° | 41.8   | 42.5 |
| 25°   | 41.1   | 41.8 |
| 27.5° | 40.4   | 41.1 |
| 30°   | 39.7   | 41.1 |
| 32.5° | 39.0   | 40.4 |
| 35°   | 39.0   | 40.4 |
| 37.5° | 39.0   | 41.1 |
| 40°   | 39.0   | 41.1 |
| 42.5° | 39.0   | 41.1 |
| 45°   | 39.0   | 41.1 |
| 47.5° | 39.0   | 41.1 |
| 50°   | 39.0   | 41.8 |
| 52.5° | 39.0   | 41.8 |
| 55°   | 39.0   | 41.1 |
| 57.5° | 38.3   | 41.1 |
| 60°   | 38.3   | 40.4 |
| 62.5° | 37.6   | 39.7 |
| 65°   | 36.1   | 38.3 |
| 67.5° | 34.7   | 37.6 |
| 70°   | 32.6   | 35.4 |
| 72.5° | 30.5   | 32.6 |
| 75°   | 27.6   | 29.8 |
| 77.5° | 24.1   | 25.5 |
| 80°   | 19.1   | 21.3 |
| 82.5° | 14.9   | 16.3 |
| 85°   | 9.9    | 10.6 |
| 87.5° | 4.3    | 5.0  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)