

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: P1324124

Luminaire Tested: LDSQA3D17R659030D2WDE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1324124  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R659030D2WDE010 3LSQCA45R 1MW  
Description: 3in Adjustable Dim to Warm LED luminaire with, R65 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

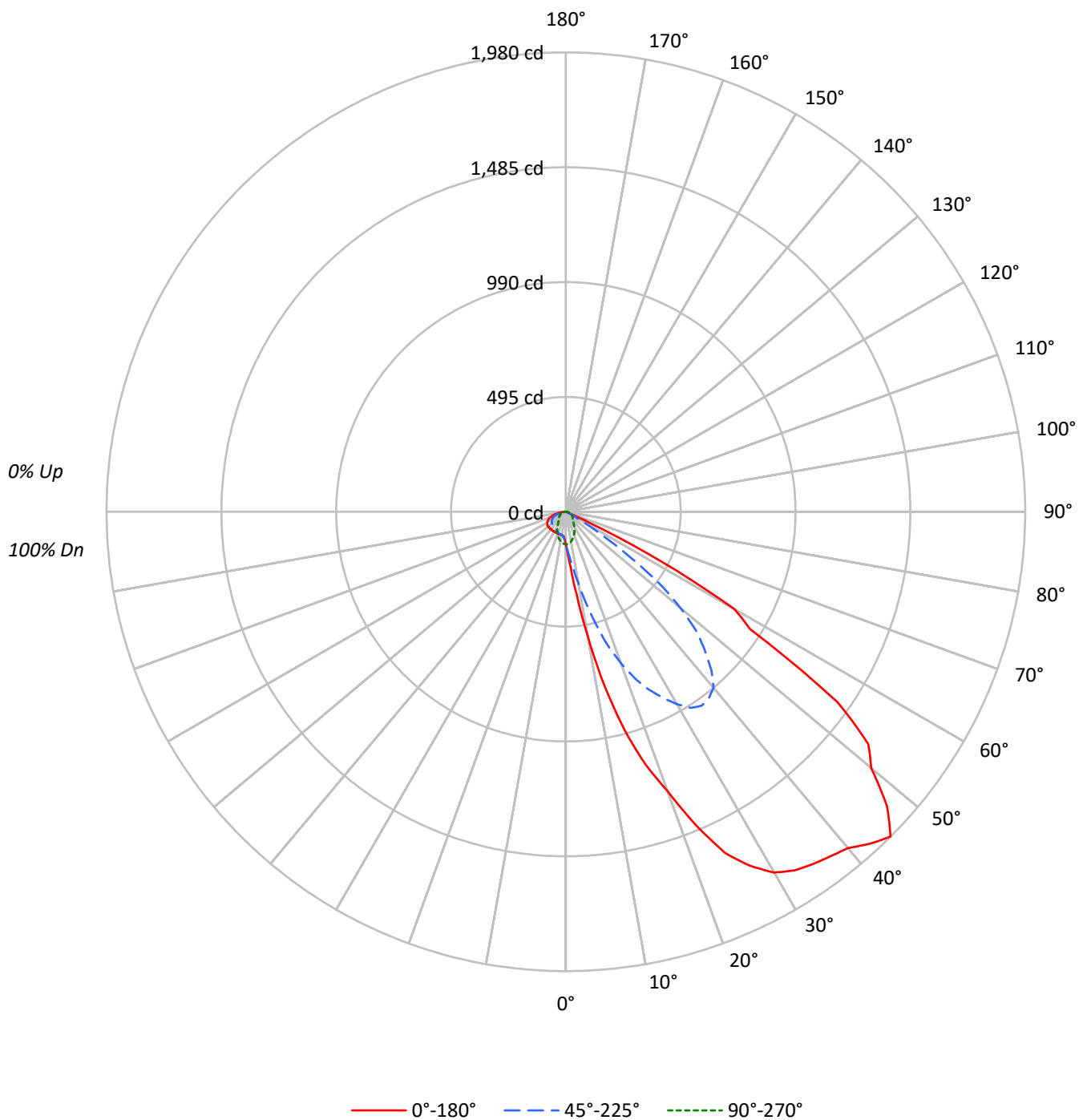
Lumens per Lamp: N/A  
Luminaire Lumens: 1436.0 lumens  
Efficiency: N/A  
Efficacy: 52.6 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.3  
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  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 94  | 91  | 92  | 90  | 89  | 87  |  |  |
| 2   | 101 | 93  | 87  | 82  | 98  | 92  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |  |  |
| 3   | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 65  | 62  |  |  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  | 67  | 61  | 56  | 64  | 59  | 55  | 53  |  |  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |  |  |
| 6   | 71  | 57  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 46  | 41  | 39  |  |  |
| 7   | 65  | 52  | 43  | 37  | 63  | 51  | 42  | 36  | 49  | 42  | 36  | 48  | 41  | 36  | 46  | 40  | 36  | 34  |  |  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |  |  |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |  |  |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  | 23  |  |  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 24060  | 24060  | 24060 | 24060 | 24060 |
| 5°  | 42062  | 34351  | 23650 | 19172 | 18412 |
| 10° | 95187  | 55402  | 22664 | 17628 | 17873 |
| 15° | 173020 | 89078  | 21057 | 17705 | 18222 |
| 20° | 234593 | 127193 | 19006 | 17686 | 18474 |
| 25° | 308356 | 160611 | 16684 | 17235 | 18870 |
| 30° | 357063 | 190414 | 14318 | 17182 | 19747 |
| 35° | 389899 | 214618 | 12110 | 17555 | 20877 |
| 40° | 425338 | 222707 | 10679 | 18458 | 22325 |
| 45° | 482199 | 206563 | 10181 | 19631 | 24185 |
| 50° | 460627 | 172440 | 10021 | 20845 | 26606 |
| 55° | 429283 | 96834  | 10389 | 22490 | 29396 |
| 60° | 289127 | 20839  | 10402 | 23801 | 31723 |
| 65° | 44582  | 5298   | 9984  | 24655 | 34598 |
| 70° | 5086   | 5086   | 9416  | 25379 | 36960 |
| 75° | 4791   | 4791   | 8650  | 24887 | 37396 |
| 80° | 4265   | 5752   | 8529  | 22811 | 37093 |
| 85° | 2766   | 5730   | 8497  | 22724 | 34185 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle:  $45^\circ$

Luminance: 482199 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 16.9   | 1.2       |
| 10°-20°   | 91.3   | 6.4       |
| 20°-30°   | 214.5  | 14.9      |
| 30°-40°   | 324.1  | 22.6      |
| 40°-50°   | 372.6  | 25.9      |
| 50°-60°   | 295.8  | 20.6      |
| 60°-70°   | 88.6   | 6.2       |
| 70°-80°   | 24.1   | 1.7       |
| 80°-90°   | 8.1    | 0.6       |
| 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°    | 322.8  | 22.5      |
| 0°-40°    | 646.9  | 45.0      |
| 0°-60°    | 1315.2 | 91.6      |
| 0°-90°    | 1436.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1436.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 140  | 140  | 140 | 140  | 140  |      |
| 5°  | 243  | 199  | 137 | 111  | 106  | 33   |
| 15° | 970  | 500  | 118 | 99   | 102  | 279  |
| 25° | 1623 | 845  | 88  | 91   | 99   | 741  |
| 35° | 1854 | 1021 | 58  | 84   | 99   | 1164 |
| 45° | 1980 | 848  | 42  | 81   | 99   | 1471 |
| 55° | 1430 | 322  | 35  | 75   | 98   | 1178 |
| 65° | 109  | 13   | 24  | 60   | 85   | 245  |
| 75° | 7    | 7    | 13  | 37   | 56   | 8    |
| 85° | 1    | 3    | 4   | 12   | 17   | 2    |
| 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°    | 139.7  | 139.7  | 139.7  | 139.7  | 139.7  | 139.7  | 139.7  | 139.7 | 139.7 | 139.7  | 139.7 |
| 2.5°  | 177.1  | 178.5  | 177.1  | 177.1  | 175.7  | 174.2  | 164.1  | 152.6 | 139.7 | 129.6  | 122.4 |
| 5°    | 243.3  | 244.8  | 240.5  | 240.5  | 237.6  | 233.3  | 198.7  | 165.6 | 136.8 | 120.9  | 110.9 |
| 7.5°  | 360.0  | 365.7  | 358.5  | 349.9  | 334.0  | 331.2  | 247.7  | 178.5 | 133.9 | 112.3  | 103.7 |
| 10°   | 544.3  | 539.9  | 532.7  | 515.5  | 488.1  | 475.1  | 316.8  | 191.5 | 129.6 | 106.5  | 100.8 |
| 12.5° | 767.4  | 755.9  | 747.3  | 715.6  | 678.2  | 656.6  | 403.2  | 203.0 | 123.8 | 100.8  | 99.3  |
| 15°   | 970.4  | 961.8  | 941.6  | 911.4  | 865.3  | 848.1  | 499.6  | 210.2 | 118.1 | 96.5   | 99.3  |
| 17.5° | 1141.8 | 1133.1 | 1121.6 | 1091.4 | 1043.9 | 1018.0 | 607.6  | 214.5 | 110.9 | 93.6   | 97.9  |
| 20°   | 1280.0 | 1274.2 | 1258.4 | 1233.9 | 1186.4 | 1161.9 | 694.0  | 214.5 | 103.7 | 90.7   | 96.5  |
| 22.5° | 1458.5 | 1445.6 | 1425.4 | 1389.4 | 1330.4 | 1293.0 | 776.1  | 210.2 | 96.5  | 87.8   | 93.6  |
| 25°   | 1622.7 | 1614.0 | 1588.1 | 1544.9 | 1481.6 | 1444.1 | 845.2  | 201.6 | 87.8  | 83.5   | 90.7  |
| 27.5° | 1720.6 | 1714.8 | 1690.4 | 1645.7 | 1575.2 | 1546.4 | 902.8  | 188.6 | 79.2  | 79.2   | 89.3  |
| 30°   | 1795.5 | 1783.9 | 1759.5 | 1716.3 | 1644.3 | 1609.7 | 957.5  | 172.8 | 72.0  | 74.9   | 86.4  |
| 32.5° | 1832.9 | 1828.6 | 1807.0 | 1769.5 | 1699.0 | 1660.1 | 1002.1 | 152.6 | 63.4  | 72.0   | 84.9  |
| 35°   | 1854.5 | 1850.2 | 1832.9 | 1796.9 | 1730.7 | 1693.2 | 1020.8 | 133.9 | 57.6  | 69.1   | 83.5  |
| 37.5° | 1871.8 | 1867.5 | 1845.9 | 1809.9 | 1743.6 | 1704.8 | 1012.2 | 113.7 | 51.8  | 66.2   | 82.1  |
| 40°   | 1891.9 | 1876.1 | 1843.0 | 1807.0 | 1746.5 | 1709.1 | 990.6  | 95.0  | 47.5  | 64.8   | 82.1  |
| 42.5° | 1940.9 | 1886.2 | 1834.3 | 1801.2 | 1743.6 | 1700.4 | 928.7  | 74.9  | 43.2  | 61.9   | 80.6  |
| 45°   | 1979.8 | 1883.3 | 1817.1 | 1791.1 | 1732.1 | 1683.2 | 848.1  | 54.7  | 41.8  | 60.5   | 80.6  |
| 47.5° | 1877.5 | 1818.5 | 1788.3 | 1773.9 | 1710.5 | 1657.2 | 764.5  | 37.4  | 40.3  | 59.0   | 79.2  |
| 50°   | 1719.2 | 1712.0 | 1700.4 | 1701.9 | 1644.3 | 1601.1 | 643.6  | 25.9  | 37.4  | 57.6   | 77.8  |
| 52.5° | 1642.8 | 1634.2 | 1614.0 | 1599.6 | 1542.1 | 1504.6 | 509.7  | 20.2  | 36.0  | 56.2   | 76.3  |
| 55°   | 1429.7 | 1435.5 | 1413.9 | 1422.5 | 1405.3 | 1386.6 | 322.5  | 18.7  | 34.6  | 53.3   | 74.9  |
| 57.5° | 941.6  | 970.4  | 1020.8 | 1081.3 | 1136.0 | 1173.5 | 174.2  | 18.7  | 31.7  | 51.8   | 72.0  |
| 60°   | 839.4  | 832.2  | 830.8  | 842.3  | 866.8  | 886.9  | 60.5   | 17.3  | 30.2  | 47.5   | 69.1  |
| 62.5° | 459.3  | 456.4  | 499.6  | 573.1  | 616.2  | 620.6  | 17.3   | 17.3  | 27.4  | 44.6   | 64.8  |
| 65°   | 109.4  | 113.7  | 126.7  | 158.4  | 187.2  | 205.9  | 13.0   | 15.8  | 24.5  | 41.8   | 60.5  |
| 67.5° | 17.3   | 18.7   | 18.7   | 23.0   | 25.9   | 25.9   | 11.5   | 14.4  | 21.6  | 37.4   | 56.2  |
| 70°   | 10.1   | 10.1   | 10.1   | 10.1   | 10.1   | 10.1   | 10.1   | 13.0  | 18.7  | 33.1   | 50.4  |
| 72.5° | 8.6    | 8.6    | 8.6    | 8.6    | 8.6    | 8.6    | 10.1   | 11.5  | 15.8  | 28.8   | 43.2  |
| 75°   | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 10.1  | 13.0  | 23.0   | 37.4  |
| 77.5° | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 7.2    | 8.6   | 11.5  | 18.7   | 30.2  |
| 80°   | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 5.8    | 7.2   | 8.6   | 14.4   | 23.0  |
| 82.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 4.3    | 5.8   | 7.2   | 11.5   | 17.3  |
| 85°   | 1.4    | 1.4    | 1.4    | 1.4    | 2.9    | 2.9    | 2.9    | 4.3   | 4.3   | 7.2    | 11.5  |
| 87.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 2.9    | 2.9   | 2.9   | 4.3    | 5.8   |
| 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°    | 139.7  | 139.7 |
| 2.5°  | 118.1  | 116.6 |
| 5°    | 106.5  | 106.5 |
| 7.5°  | 102.2  | 102.2 |
| 10°   | 100.8  | 102.2 |
| 12.5° | 100.8  | 102.2 |
| 15°   | 100.8  | 102.2 |
| 17.5° | 100.8  | 102.2 |
| 20°   | 99.3   | 100.8 |
| 22.5° | 97.9   | 99.3  |
| 25°   | 96.5   | 99.3  |
| 27.5° | 95.0   | 99.3  |
| 30°   | 95.0   | 99.3  |
| 32.5° | 95.0   | 99.3  |
| 35°   | 93.6   | 99.3  |
| 37.5° | 93.6   | 99.3  |
| 40°   | 93.6   | 99.3  |
| 42.5° | 93.6   | 99.3  |
| 45°   | 93.6   | 99.3  |
| 47.5° | 93.6   | 99.3  |
| 50°   | 93.6   | 99.3  |
| 52.5° | 92.1   | 99.3  |
| 55°   | 92.1   | 97.9  |
| 57.5° | 89.3   | 95.0  |
| 60°   | 86.4   | 92.1  |
| 62.5° | 83.5   | 89.3  |
| 65°   | 79.2   | 84.9  |
| 67.5° | 74.9   | 79.2  |
| 70°   | 67.7   | 73.4  |
| 72.5° | 60.5   | 64.8  |
| 75°   | 51.8   | 56.2  |
| 77.5° | 43.2   | 47.5  |
| 80°   | 34.6   | 37.4  |
| 82.5° | 24.5   | 27.4  |
| 85°   | 15.8   | 17.3  |
| 87.5° | 7.2    | 7.2   |
| 90°   | 0.0    | 0.0   |

(END OF REPORT)