

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: P1323960

Luminaire Tested: LDSQA3D13R559030D2WDE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

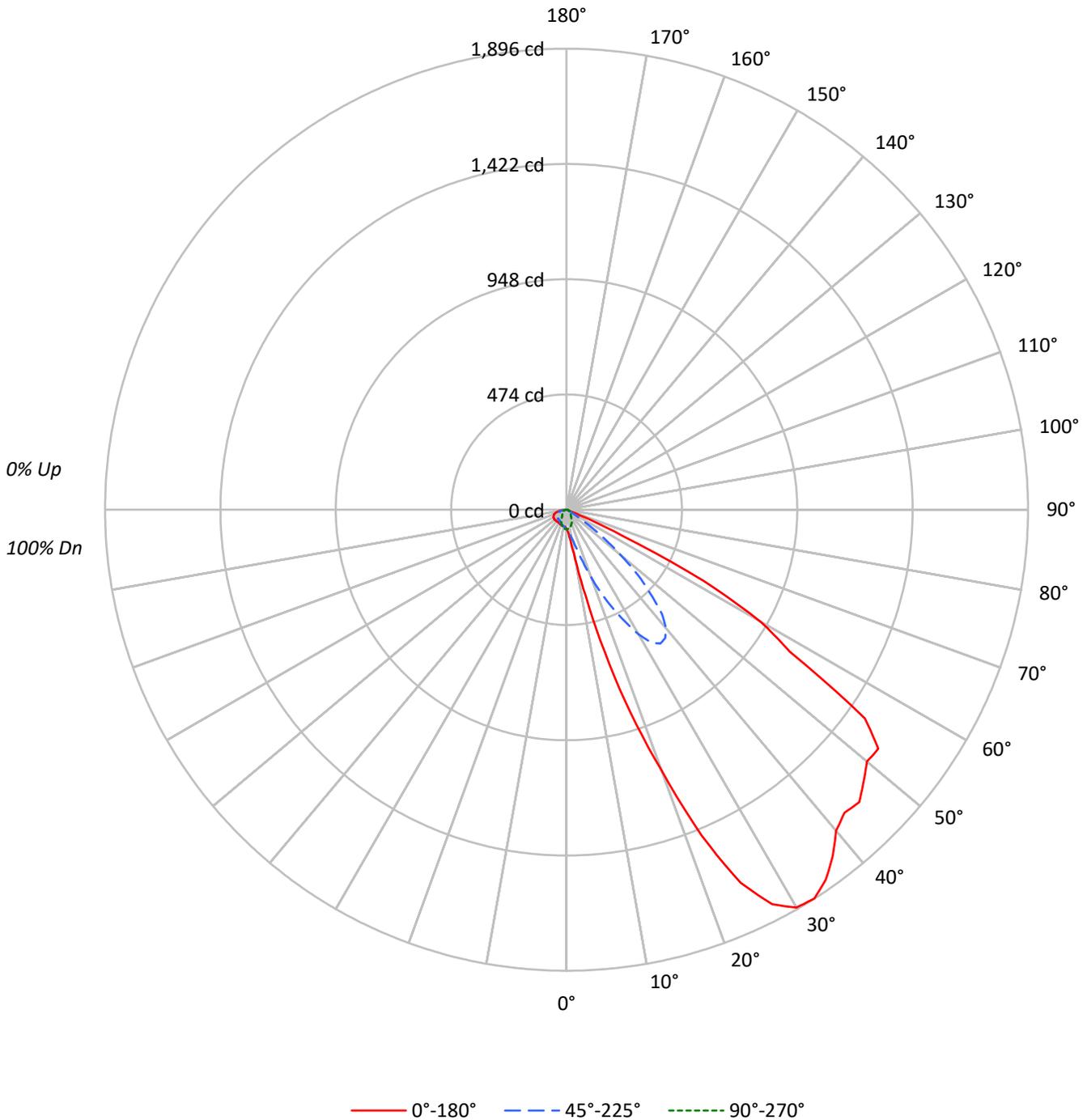
Test Method: LM-79-2019  
Report Number: P1323960  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R559030D2WDE010 3LSQCA45R 1MB  
Description: 3in Adjustable Dim to Warm LED luminaire with, R55 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1219.0 lumens  
Efficiency: N/A  
Efficacy: 60.6 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): 20.1  
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

TEST NUMBER: P1323960  
CATALOG NUMBER: LDSQA3D13R559030D2WDE010 3LSQCA45R 1MB

### Luminous Intensity Polar Plot





TEST NUMBER: P1323960

CATALOG NUMBER: LDSQA3D13R559030D2WDE010 3LSQCA45R 1MB

**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  | 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°  | 13537  | 13537  | 13537 | 13537 | 13537 |
| 5°  | 17323  | 15836  | 13588 | 12655 | 12292 |
| 10° | 35221  | 20146  | 13186 | 12049 | 12049 |
| 15° | 108120 | 30917  | 12285 | 11714 | 12106 |
| 20° | 209044 | 54085  | 11052 | 11455 | 12041 |
| 25° | 321734 | 84125  | 9615  | 11060 | 12067 |
| 30° | 375697 | 117589 | 7935  | 10918 | 12429 |
| 35° | 390404 | 141306 | 6560  | 10870 | 12909 |
| 40° | 387433 | 142626 | 6048  | 11376 | 14051 |
| 45° | 414222 | 118053 | 5772  | 12324 | 15222 |
| 50° | 431717 | 77914  | 5761  | 13263 | 17014 |
| 55° | 449521 | 33960  | 5825  | 14563 | 18766 |
| 60° | 317579 | 7784   | 5924  | 15948 | 21149 |
| 65° | 103590 | 2649   | 5705  | 17116 | 23717 |
| 70° | 3273   | 2719   | 5942  | 18430 | 27141 |
| 75° | 2861   | 2861   | 4991  | 19364 | 30077 |
| 80° | 2182   | 3174   | 5356  | 19241 | 32035 |
| 85° | 2174   | 4347   | 6323  | 19168 | 32012 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 456753 cd/sqm



TEST NUMBER: P1323960

CATALOG NUMBER: LDSQA3D13R559030D2WDE010 3LSQCA45R 1MB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.3    | 0.7       |
| 10°-20°   | 51.8   | 4.2       |
| 20°-30°   | 173.5  | 14.2      |
| 30°-40°   | 284.9  | 23.4      |
| 40°-50°   | 317.8  | 26.1      |
| 50°-60°   | 267.5  | 21.9      |
| 60°-70°   | 90.7   | 7.4       |
| 70°-80°   | 17.8   | 1.5       |
| 80°-90°   | 6.7    | 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°    | 233.6  | 19.2      |
| 0°-40°    | 518.5  | 42.5      |
| 0°-60°    | 1103.8 | 90.6      |
| 0°-90°    | 1219.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1219.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 79   | 79  | 79  | 79   | 79   |      |
| 5°  | 100  | 92  | 79  | 73   | 71   | 12   |
| 15° | 606  | 173 | 69  | 66   | 68   | 192  |
| 25° | 1693 | 443 | 51  | 58   | 64   | 761  |
| 35° | 1857 | 672 | 31  | 52   | 61   | 1153 |
| 45° | 1701 | 485 | 24  | 51   | 62   | 1299 |
| 55° | 1497 | 113 | 19  | 48   | 62   | 1219 |
| 65° | 254  | 6   | 14  | 42   | 58   | 344  |
| 75° | 4    | 4   | 8   | 29   | 45   | 5    |
| 85° | 1    | 2   | 3   | 10   | 16   | 1    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P1323960

CATALOG NUMBER: LDSQA3D13R559030D2WDE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 45°   | 67.5° | 90°  | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|------|
| 0°    | 78.6   | 78.6   | 78.6   | 78.6   | 78.6   | 78.6   | 78.6  | 78.6  | 78.6 | 78.6   | 78.6 |
| 2.5°  | 86.2   | 86.2   | 86.2   | 86.2   | 86.2   | 86.2   | 85.1  | 81.9  | 79.7 | 76.5   | 75.4 |
| 5°    | 100.2  | 100.2  | 100.2  | 99.1   | 99.1   | 96.9   | 91.6  | 84.0  | 78.6 | 74.3   | 73.2 |
| 7.5°  | 129.2  | 128.2  | 126.0  | 124.9  | 121.7  | 120.6  | 101.2 | 86.2  | 77.5 | 72.2   | 71.1 |
| 10°   | 201.4  | 199.3  | 196.0  | 184.2  | 173.4  | 165.9  | 115.2 | 87.2  | 75.4 | 70.0   | 68.9 |
| 12.5° | 363.0  | 358.7  | 342.5  | 317.7  | 287.6  | 272.5  | 137.9 | 88.3  | 72.2 | 67.9   | 67.9 |
| 15°   | 606.4  | 601.0  | 570.8  | 536.4  | 481.4  | 451.3  | 173.4 | 87.2  | 68.9 | 64.6   | 65.7 |
| 17.5° | 875.6  | 860.6  | 829.3  | 784.1  | 709.8  | 674.2  | 226.2 | 85.1  | 64.6 | 62.5   | 64.6 |
| 20°   | 1140.6 | 1136.3 | 1084.6 | 1023.2 | 931.7  | 884.3  | 295.1 | 81.9  | 60.3 | 59.2   | 62.5 |
| 22.5° | 1450.8 | 1432.5 | 1377.6 | 1311.9 | 1185.8 | 1123.4 | 369.4 | 77.5  | 56.0 | 56.0   | 60.3 |
| 25°   | 1693.1 | 1671.6 | 1628.5 | 1552.0 | 1432.5 | 1365.7 | 442.7 | 72.2  | 50.6 | 52.8   | 58.2 |
| 27.5° | 1828.8 | 1804.1 | 1771.8 | 1706.1 | 1613.4 | 1554.2 | 515.9 | 65.7  | 45.2 | 49.5   | 56.0 |
| 30°   | 1889.2 | 1882.7 | 1859.0 | 1810.5 | 1725.4 | 1672.7 | 591.3 | 58.2  | 39.9 | 46.3   | 54.9 |
| 32.5° | 1895.6 | 1898.9 | 1889.2 | 1857.9 | 1793.3 | 1748.1 | 647.3 | 51.7  | 35.5 | 44.2   | 52.8 |
| 35°   | 1856.9 | 1868.7 | 1875.2 | 1862.2 | 1820.2 | 1783.6 | 672.1 | 44.2  | 31.2 | 42.0   | 51.7 |
| 37.5° | 1796.5 | 1818.1 | 1839.6 | 1842.8 | 1817.0 | 1793.3 | 665.6 | 37.7  | 29.1 | 40.9   | 51.7 |
| 40°   | 1723.3 | 1742.7 | 1786.8 | 1814.8 | 1806.2 | 1789.0 | 634.4 | 31.2  | 26.9 | 38.8   | 50.6 |
| 42.5° | 1689.9 | 1694.2 | 1741.6 | 1789.0 | 1786.8 | 1772.8 | 579.5 | 24.8  | 24.8 | 38.8   | 50.6 |
| 45°   | 1700.7 | 1681.3 | 1712.5 | 1767.5 | 1764.2 | 1745.9 | 484.7 | 19.4  | 23.7 | 37.7   | 50.6 |
| 47.5° | 1655.4 | 1628.5 | 1681.3 | 1745.9 | 1734.1 | 1707.1 | 400.7 | 14.0  | 22.6 | 36.6   | 49.5 |
| 50°   | 1611.3 | 1607.0 | 1647.9 | 1680.2 | 1664.1 | 1649.0 | 290.8 | 10.8  | 21.5 | 35.5   | 49.5 |
| 52.5° | 1614.5 | 1607.0 | 1611.3 | 1610.2 | 1577.9 | 1561.7 | 199.3 | 8.6   | 20.5 | 34.5   | 49.5 |
| 55°   | 1497.1 | 1473.4 | 1450.8 | 1457.3 | 1459.4 | 1448.6 | 113.1 | 7.5   | 19.4 | 34.5   | 48.5 |
| 57.5° | 1087.8 | 1081.4 | 1106.1 | 1176.1 | 1231.1 | 1237.5 | 54.9  | 7.5   | 18.3 | 33.4   | 47.4 |
| 60°   | 922.0  | 917.7  | 918.7  | 939.2  | 968.3  | 950.0  | 22.6  | 7.5   | 17.2 | 32.3   | 46.3 |
| 62.5° | 635.5  | 677.5  | 694.7  | 742.1  | 722.7  | 696.9  | 8.6   | 8.6   | 16.2 | 30.2   | 45.2 |
| 65°   | 254.2  | 253.1  | 276.8  | 299.4  | 293.0  | 273.6  | 6.5   | 7.5   | 14.0 | 28.0   | 42.0 |
| 67.5° | 59.2   | 53.9   | 46.3   | 39.9   | 33.4   | 26.9   | 6.5   | 7.5   | 12.9 | 25.8   | 39.9 |
| 70°   | 6.5    | 6.5    | 6.5    | 6.5    | 6.5    | 5.4    | 5.4   | 7.5   | 11.8 | 23.7   | 36.6 |
| 72.5° | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4   | 6.5   | 9.7  | 20.5   | 33.4 |
| 75°   | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3   | 5.4   | 7.5  | 17.2   | 29.1 |
| 77.5° | 3.2    | 3.2    | 3.2    | 4.3    | 3.2    | 4.3    | 4.3   | 5.4   | 6.5  | 14.0   | 24.8 |
| 80°   | 2.2    | 2.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2   | 4.3   | 5.4  | 11.8   | 19.4 |
| 82.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 3.2   | 3.2   | 4.3  | 8.6    | 14.0 |
| 85°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.2    | 2.2   | 3.2   | 3.2  | 6.5    | 9.7  |
| 87.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.2   | 2.2   | 3.2  | 3.2    | 4.3  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  |



TEST NUMBER: P1323960  
CATALOG NUMBER: LDSQA3D13R559030D2WDE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 78.6   | 78.6 |
| 2.5°  | 74.3   | 74.3 |
| 5°    | 72.2   | 71.1 |
| 7.5°  | 70.0   | 70.0 |
| 10°   | 68.9   | 68.9 |
| 12.5° | 67.9   | 68.9 |
| 15°   | 67.9   | 67.9 |
| 17.5° | 65.7   | 66.8 |
| 20°   | 64.6   | 65.7 |
| 22.5° | 63.5   | 64.6 |
| 25°   | 62.5   | 63.5 |
| 27.5° | 61.4   | 62.5 |
| 30°   | 60.3   | 62.5 |
| 32.5° | 59.2   | 61.4 |
| 35°   | 59.2   | 61.4 |
| 37.5° | 59.2   | 62.5 |
| 40°   | 59.2   | 62.5 |
| 42.5° | 59.2   | 62.5 |
| 45°   | 59.2   | 62.5 |
| 47.5° | 59.2   | 62.5 |
| 50°   | 59.2   | 63.5 |
| 52.5° | 59.2   | 63.5 |
| 55°   | 59.2   | 62.5 |
| 57.5° | 58.2   | 62.5 |
| 60°   | 58.2   | 61.4 |
| 62.5° | 57.1   | 60.3 |
| 65°   | 54.9   | 58.2 |
| 67.5° | 52.8   | 57.1 |
| 70°   | 49.5   | 53.9 |
| 72.5° | 46.3   | 49.5 |
| 75°   | 42.0   | 45.2 |
| 77.5° | 36.6   | 38.8 |
| 80°   | 29.1   | 32.3 |
| 82.5° | 22.6   | 24.8 |
| 85°   | 15.1   | 16.2 |
| 87.5° | 6.5    | 7.5  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)