

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: P1319221

Luminaire Tested: LDSQA3D13R259835DE010 3LSQPHRL1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319221  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R259835DE010 3LSQPHRL1MW  
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 98CRI , 3LSQPHRL1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

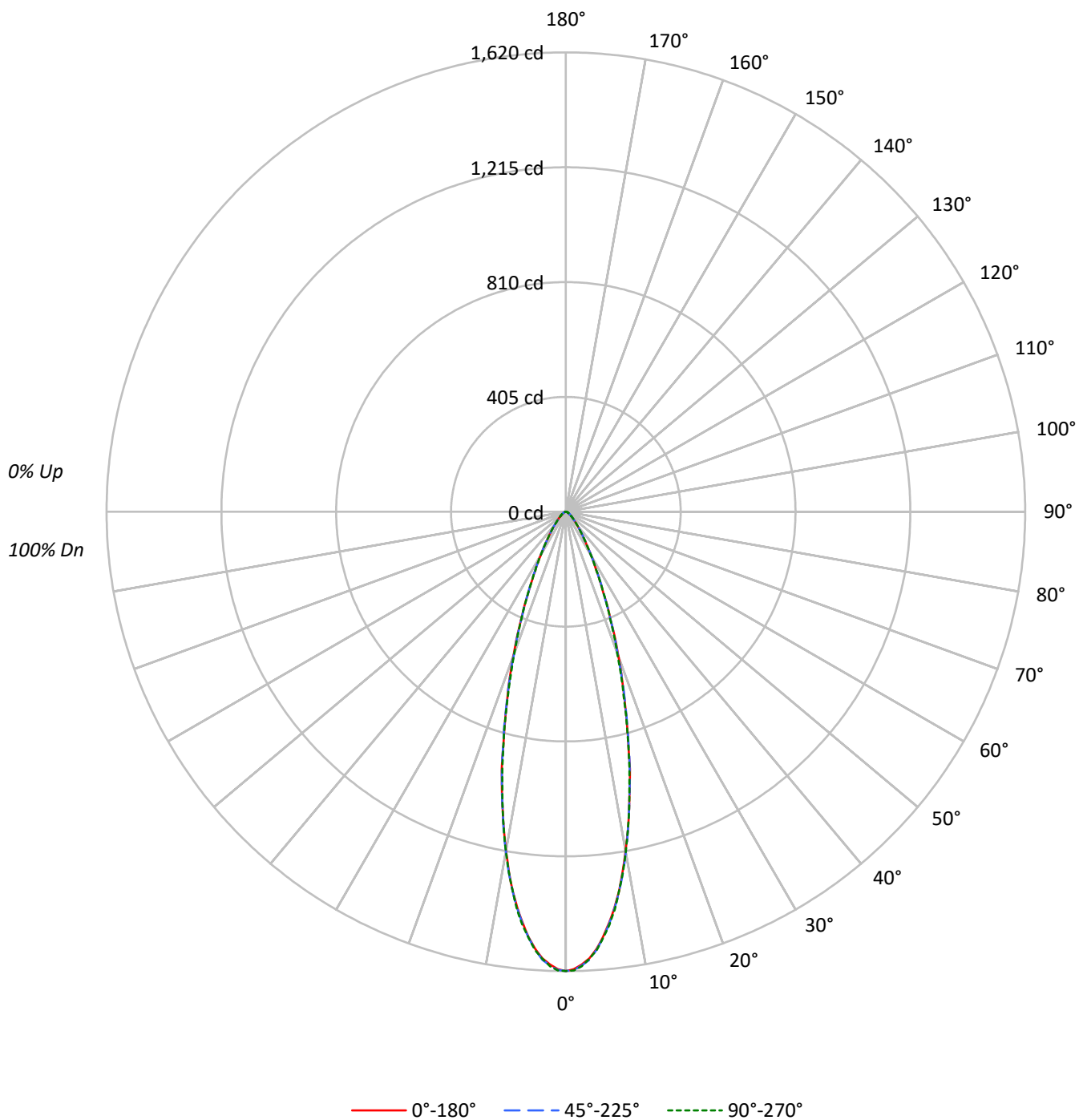
Lumens per Lamp: N/A  
Luminaire Lumens: 649.0 lumens  
Efficiency: N/A  
Efficacy: 44.8 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.54  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 |  | 101 | 100 | 99  |  | 98  |
| 2   | 109 | 104 | 100 | 97  | 106 | 102 | 99  | 96  | 99  | 96  | 94  |  | 96  | 94  | 92  |  | 93  |
| 3   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 89  | 94  | 90  | 87  |  | 91  | 88  | 86  |  | 89  |
| 4   | 99  | 92  | 87  | 83  | 97  | 91  | 86  | 83  | 89  | 85  | 82  |  | 87  | 84  | 81  |  | 85  |
| 5   | 95  | 87  | 82  | 78  | 93  | 86  | 81  | 78  | 85  | 80  | 77  |  | 83  | 79  | 76  |  | 82  |
| 6   | 91  | 83  | 78  | 74  | 90  | 82  | 77  | 73  | 81  | 76  | 73  |  | 79  | 76  | 72  |  | 78  |
| 7   | 87  | 79  | 74  | 70  | 86  | 78  | 73  | 70  | 77  | 73  | 69  |  | 76  | 72  | 69  |  | 75  |
| 8   | 84  | 76  | 70  | 67  | 83  | 75  | 70  | 66  | 74  | 69  | 66  |  | 73  | 69  | 66  |  | 72  |
| 9   | 81  | 72  | 67  | 64  | 80  | 72  | 67  | 63  | 71  | 66  | 63  |  | 70  | 66  | 63  |  | 69  |
| 10  | 78  | 69  | 64  | 61  | 77  | 69  | 64  | 61  | 68  | 64  | 61  |  | 67  | 63  | 60  |  | 67  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 278949 | 278949 | 278949 |
| 5°  | 260375 | 260635 | 260773 |
| 10° | 212374 | 213038 | 213038 |
| 15° | 151696 | 152498 | 151696 |
| 20° | 99280  | 98309  | 96916  |
| 25° | 59022  | 59307  | 59022  |
| 30° | 35557  | 35557  | 35398  |
| 35° | 21655  | 21823  | 21655  |
| 40° | 13804  | 13961  | 13961  |
| 45° | 9596   | 9596   | 9596   |
| 50° | 6913   | 7100   | 7100   |
| 55° | 5465   | 5465   | 5675   |
| 60° | 4443   | 4684   | 4684   |
| 65° | 3994   | 3994   | 3994   |
| 70° | 3424   | 3424   | 3827   |
| 75° | 2994   | 2994   | 3527   |
| 80° | 2975   | 2975   | 2975   |
| 85° | 1581   | 1581   | 1581   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9596 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.6  | 20.7      |
| 10°-20°   | 234.6  | 36.2      |
| 20°-30°   | 147.5  | 22.7      |
| 30°-40°   | 67.5   | 10.4      |
| 40°-50°   | 31.5   | 4.9       |
| 50°-60°   | 16.9   | 2.6       |
| 60°-70°   | 10.0   | 1.5       |
| 70°-80°   | 5.2    | 0.8       |
| 80°-90°   | 1.2    | 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°    | 516.7  | 79.6      |
| 0°-40°    | 584.2  | 90.0      |
| 0°-60°    | 632.6  | 97.5      |
| 0°-90°    | 649.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 649.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1620 | 1620  | 1620 | 1620  | 1620 |      |
| 5°  | 1506 | 1509  | 1508 | 1509  | 1508 | 134  |
| 15° | 851  | 856   | 855  | 857   | 851  | 235  |
| 25° | 311  | 314   | 312  | 312   | 311  | 148  |
| 35° | 103  | 103   | 104  | 104   | 103  | 67   |
| 45° | 39   | 39    | 39   | 39    | 39   | 31   |
| 55° | 18   | 18    | 18   | 19    | 19   | 17   |
| 65° | 10   | 10    | 10   | 10    | 10   | 10   |
| 75° | 4    | 4     | 4    | 5     | 5    | 5    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1619.7 | 1619.7 | 1619.7 | 1619.7 | 1619.7 |
| 1°    | 1612.9 | 1614.4 | 1615.9 | 1618.2 | 1617.5 |
| 2°    | 1597.8 | 1600.8 | 1601.5 | 1604.6 | 1603.8 |
| 3°    | 1577.3 | 1576.5 | 1582.6 | 1582.6 | 1578.8 |
| 4°    | 1545.5 | 1547.0 | 1548.5 | 1550.0 | 1550.8 |
| 5°    | 1506.1 | 1509.1 | 1507.6 | 1509.1 | 1508.4 |
| 6°    | 1457.6 | 1462.1 | 1461.4 | 1462.9 | 1465.2 |
| 7°    | 1406.1 | 1409.1 | 1409.1 | 1407.6 | 1413.7 |
| 8°    | 1350.0 | 1347.8 | 1351.5 | 1350.0 | 1349.3 |
| 9°    | 1283.4 | 1287.9 | 1288.7 | 1284.9 | 1286.4 |
| 10°   | 1214.4 | 1217.4 | 1218.2 | 1220.5 | 1218.2 |
| 11°   | 1146.2 | 1146.2 | 1147.7 | 1151.5 | 1145.5 |
| 12°   | 1072.0 | 1078.8 | 1072.0 | 1075.0 | 1072.0 |
| 13°   | 1001.5 | 1003.0 | 1001.5 | 1000.8 | 995.5  |
| 14°   | 934.9  | 929.6  | 931.1  | 925.0  | 925.8  |
| 15°   | 850.8  | 856.1  | 855.3  | 856.8  | 850.8  |
| 17.5° | 684.1  | 687.1  | 686.4  | 684.9  | 677.3  |
| 20°   | 541.7  | 541.7  | 536.4  | 533.3  | 528.8  |
| 22.5° | 413.6  | 412.1  | 409.9  | 407.6  | 409.1  |
| 25°   | 310.6  | 314.4  | 312.1  | 312.1  | 310.6  |
| 27.5° | 234.9  | 239.4  | 235.6  | 233.3  | 234.9  |
| 30°   | 178.8  | 180.3  | 178.8  | 178.0  | 178.0  |
| 32.5° | 134.9  | 135.6  | 134.9  | 134.9  | 134.9  |
| 35°   | 103.0  | 103.0  | 103.8  | 103.8  | 103.0  |
| 37.5° | 79.5   | 79.5   | 79.5   | 79.5   | 80.3   |
| 40°   | 61.4   | 62.1   | 62.1   | 62.1   | 62.1   |
| 42.5° | 48.5   | 49.2   | 49.2   | 49.2   | 49.2   |
| 45°   | 39.4   | 39.4   | 39.4   | 39.4   | 39.4   |
| 47.5° | 31.8   | 31.8   | 31.8   | 31.8   | 32.6   |
| 50°   | 25.8   | 26.5   | 26.5   | 26.5   | 26.5   |
| 52.5° | 22.0   | 22.0   | 22.0   | 22.0   | 22.0   |
| 55°   | 18.2   | 18.2   | 18.2   | 18.9   | 18.9   |
| 57.5° | 15.2   | 15.2   | 15.9   | 15.9   | 15.9   |
| 60°   | 12.9   | 13.6   | 13.6   | 13.6   | 13.6   |
| 62.5° | 11.4   | 11.4   | 12.1   | 12.1   | 12.1   |
| 65°   | 9.8    | 9.8    | 9.8    | 9.8    | 9.8    |
| 67.5° | 8.3    | 8.3    | 8.3    | 8.3    | 9.1    |
| 70°   | 6.8    | 6.8    | 6.8    | 7.6    | 7.6    |
| 72.5° | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    |
| 75°   | 4.5    | 4.5    | 4.5    | 5.3    | 5.3    |
| 77.5° | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 80°   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 82.5° | 1.5    | 1.5    | 2.3    | 2.3    | 2.3    |
| 85°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 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)