

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: P1311551

Luminaire Tested: LDSQA3D13R609040DE010 3LSQCDR1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311551  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R609040DE010 3LSQCDR1MMS  
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 90CRI , 3LSQCDR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

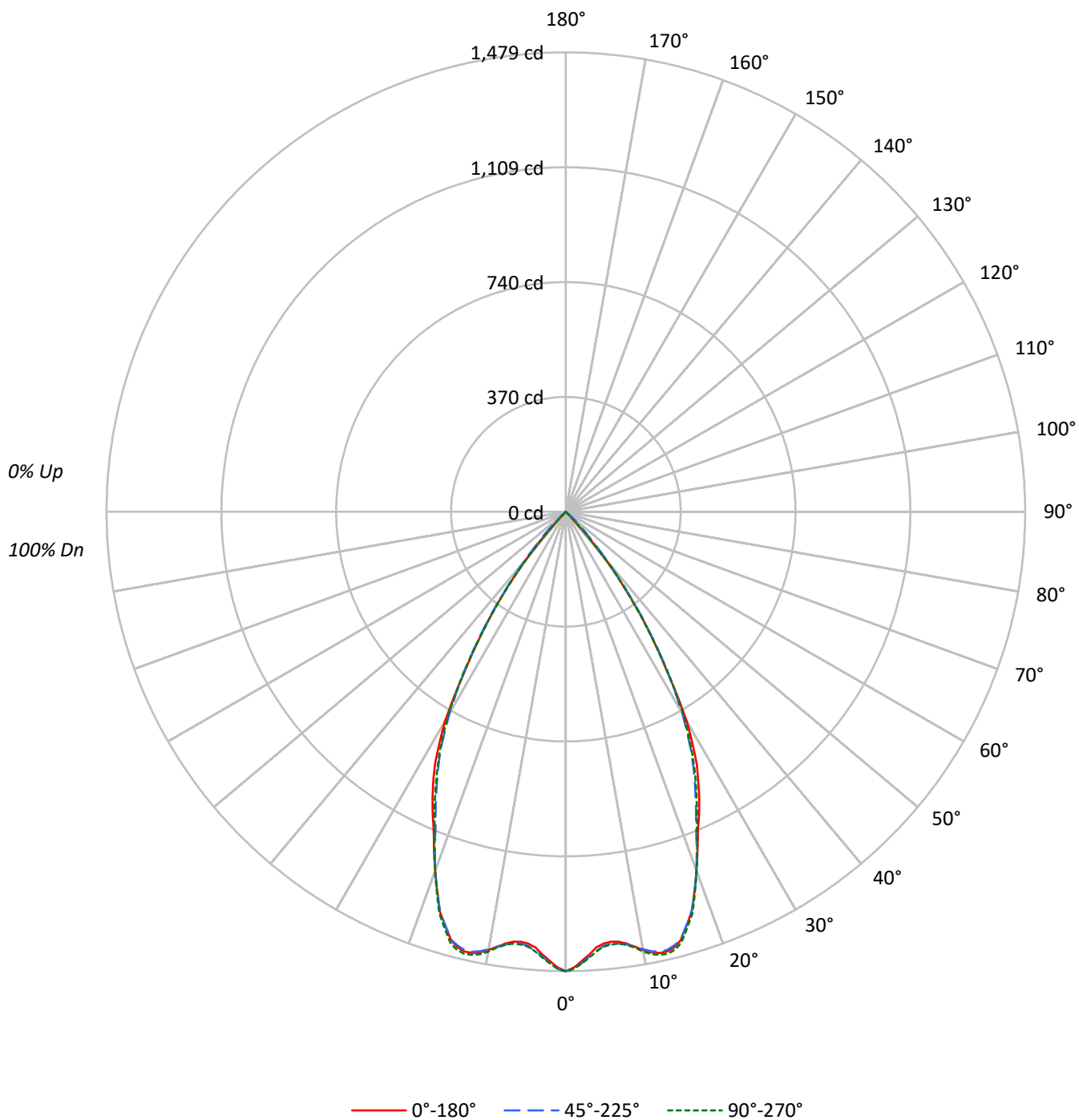
Lumens per Lamp: N/A  
Luminaire Lumens: 1311.0 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.93 / 0.9  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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   | 108 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 99  | 96  | 93  |  | 96  | 93  | 91  |  | 93  |
| 3   | 103 | 97  | 92  | 88  | 101 | 96  | 91  | 88  | 93  | 89  | 86  |  | 91  | 88  | 85  |  | 88  |
| 4   | 98  | 91  | 86  | 81  | 96  | 90  | 85  | 81  | 88  | 83  | 80  |  | 86  | 82  | 79  |  | 84  |
| 5   | 93  | 85  | 80  | 76  | 92  | 84  | 79  | 75  | 83  | 78  | 75  |  | 81  | 77  | 74  |  | 79  |
| 6   | 89  | 80  | 74  | 70  | 87  | 79  | 74  | 70  | 78  | 73  | 70  |  | 77  | 72  | 69  |  | 75  |
| 7   | 85  | 76  | 70  | 66  | 83  | 75  | 69  | 65  | 74  | 69  | 65  |  | 72  | 68  | 65  |  | 71  |
| 8   | 81  | 71  | 66  | 62  | 79  | 71  | 65  | 61  | 70  | 65  | 61  |  | 69  | 64  | 61  |  | 68  |
| 9   | 77  | 67  | 62  | 58  | 76  | 67  | 61  | 58  | 66  | 61  | 57  |  | 65  | 61  | 57  |  | 64  |
| 10  | 73  | 64  | 58  | 54  | 72  | 63  | 58  | 54  | 63  | 58  | 54  |  | 62  | 57  | 54  |  | 61  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 254786 | 254786 | 254786 |
| 5°  | 241289 | 242551 | 242914 |
| 10° | 250480 | 250113 | 251582 |
| 15° | 254627 | 254253 | 256125 |
| 20° | 225337 | 225337 | 225722 |
| 25° | 193105 | 187347 | 188944 |
| 30° | 154479 | 148871 | 151158 |
| 35° | 95830  | 97806  | 95619  |
| 40° | 42064  | 46313  | 43256  |
| 45° | 511    | 15028  | 1267   |
| 50° | 0      | 1688   | 0      |
| 55° | 0      | 0      | 0      |
| 60° | 0      | 0      | 0      |
| 65° | 0      | 0      | 0      |
| 70° | 0      | 0      | 0      |
| 75° | 0      | 0      | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 15028 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 135.1  | 10.3      |
| 10°-20°   | 391.7  | 29.9      |
| 20°-30°   | 454.7  | 34.7      |
| 30°-40°   | 286.3  | 21.8      |
| 40°-50°   | 43.0   | 3.3       |
| 50°-60°   | 0.2    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 981.5  | 74.9      |
| 0°-40°    | 1267.8 | 96.7      |
| 0°-60°    | 1311.0 | 100.0     |
| 0°-90°    | 1311.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1311.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1479 | 1479  | 1479 | 1479  | 1479 |      |
| 5°  | 1396 | 1401  | 1403 | 1406  | 1405 | 135  |
| 15° | 1428 | 1423  | 1426 | 1436  | 1436 | 392  |
| 25° | 1016 | 1005  | 986  | 990   | 994  | 462  |
| 35° | 456  | 457   | 465  | 456   | 455  | 285  |
| 45° | 2    | 20    | 62   | 26    | 5    | 28   |
| 55° | 0    | 0     | 0    | 0     | 0    | 0    |
| 65° | 0    | 0     | 0    | 0     | 0    | 0    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1479.4 | 1479.4 | 1479.4 | 1479.4 | 1479.4 |
| 1°    | 1467.9 | 1472.0 | 1472.0 | 1473.1 | 1472.0 |
| 2°    | 1448.0 | 1454.3 | 1454.3 | 1457.4 | 1455.3 |
| 3°    | 1428.1 | 1433.4 | 1434.4 | 1438.6 | 1437.5 |
| 4°    | 1406.2 | 1414.5 | 1417.7 | 1419.8 | 1418.7 |
| 5°    | 1395.7 | 1401.0 | 1403.0 | 1406.2 | 1405.1 |
| 6°    | 1391.5 | 1395.7 | 1397.8 | 1401.0 | 1401.0 |
| 7°    | 1394.7 | 1397.8 | 1401.0 | 1403.0 | 1401.0 |
| 8°    | 1404.1 | 1407.2 | 1407.2 | 1411.4 | 1408.3 |
| 9°    | 1417.7 | 1418.7 | 1418.7 | 1424.0 | 1420.8 |
| 10°   | 1432.3 | 1430.2 | 1430.2 | 1437.5 | 1438.6 |
| 11°   | 1444.9 | 1442.8 | 1441.7 | 1449.0 | 1451.1 |
| 12°   | 1452.2 | 1448.0 | 1448.0 | 1457.4 | 1458.5 |
| 13°   | 1453.2 | 1448.0 | 1448.0 | 1457.4 | 1460.5 |
| 14°   | 1444.9 | 1438.6 | 1439.6 | 1450.1 | 1453.2 |
| 15°   | 1428.1 | 1422.9 | 1426.0 | 1435.5 | 1436.5 |
| 17.5° | 1348.7 | 1345.5 | 1347.6 | 1353.9 | 1355.0 |
| 20°   | 1229.5 | 1227.4 | 1229.5 | 1229.5 | 1231.6 |
| 22.5° | 1111.4 | 1106.1 | 1095.7 | 1101.9 | 1103.0 |
| 25°   | 1016.2 | 1004.7 | 985.9  | 990.1  | 994.3  |
| 27.5° | 911.7  | 897.0  | 877.2  | 882.4  | 883.4  |
| 30°   | 776.8  | 769.5  | 748.6  | 753.8  | 760.1  |
| 32.5° | 600.1  | 620.0  | 607.4  | 606.4  | 607.4  |
| 35°   | 455.8  | 456.9  | 465.2  | 455.8  | 454.8  |
| 37.5° | 318.9  | 319.9  | 326.2  | 315.7  | 316.8  |
| 40°   | 187.1  | 200.7  | 206.0  | 201.8  | 192.4  |
| 42.5° | 58.5   | 103.5  | 117.1  | 101.4  | 64.8   |
| 45°   | 2.1    | 19.9   | 61.7   | 26.1   | 5.2    |
| 47.5° | 0.0    | 1.0    | 29.3   | 2.1    | 0.0    |
| 50°   | 0.0    | 0.0    | 6.3    | 0.0    | 0.0    |
| 52.5° | 0.0    | 0.0    | 1.0    | 0.0    | 0.0    |
| 55°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)