

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: P1309199

Luminaire Tested: LDSQA3D13R159030DE010 3LSQPHR1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R159030DE010 3LSQPHR1MB  
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , 3LSQPHR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

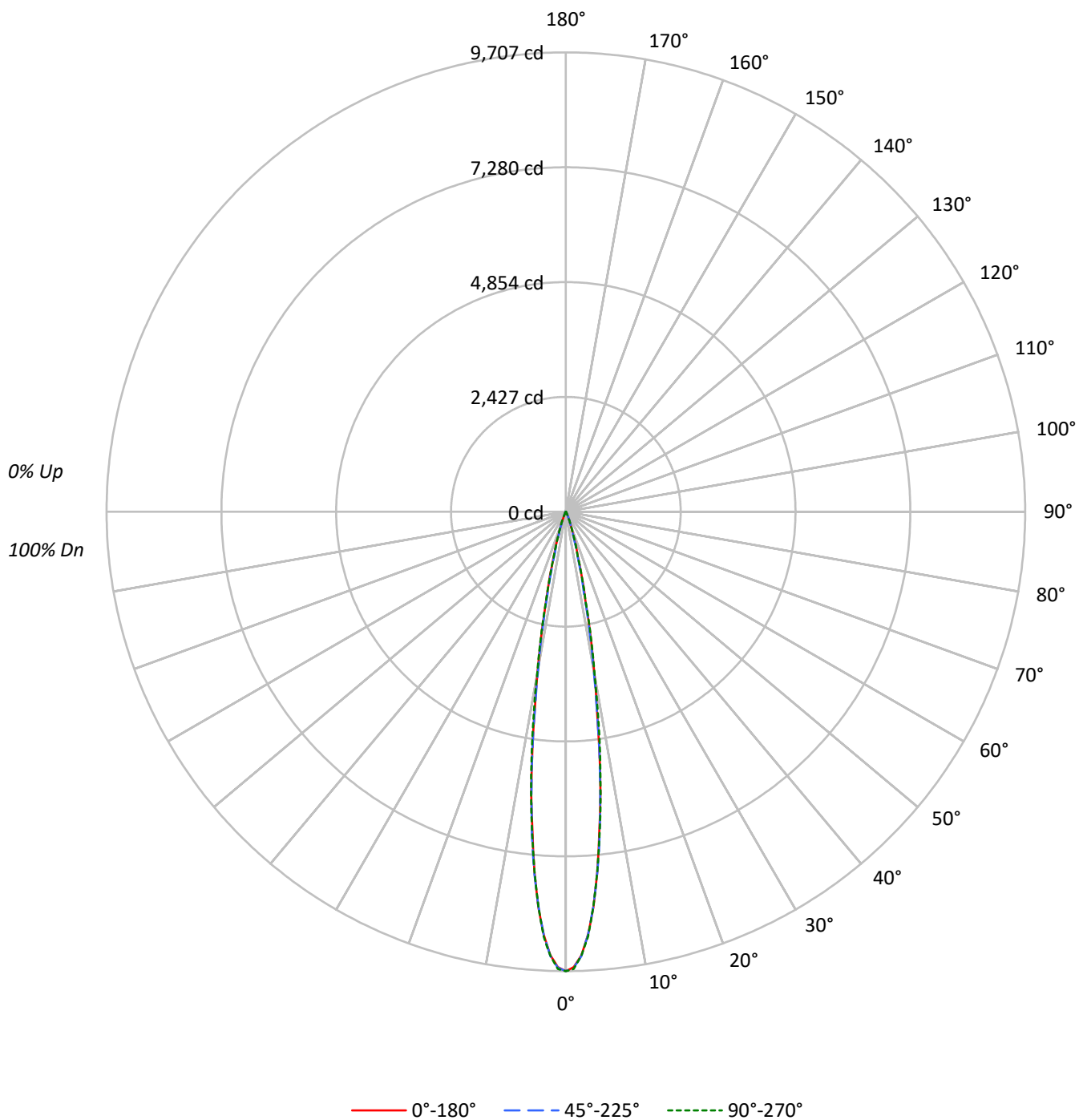
Lumens per Lamp: N/A  
Luminaire Lumens: 972.0 lumens  
Efficiency: N/A  
Efficacy: 66.6 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.29 / 0.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |     |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 104 | 103 | 101 | 100 | 100 | 100 | 100 | 98  |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 104 | 102 | 102 | 101 | 100 | 100 | 99  | 98  | 98  | 98  | 97  |
| 3   | 110 | 107 | 104 | 101 | 109 | 105 | 103 | 100 | 103 | 101 | 99  | 101 | 99  | 97  | 99  | 97  | 96  | 96  | 96  | 95  |
| 4   | 108 | 104 | 100 | 98  | 106 | 103 | 100 | 98  | 101 | 98  | 96  | 99  | 97  | 95  | 97  | 96  | 94  | 94  | 94  | 93  |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  | 99  | 96  | 94  | 97  | 95  | 94  | 96  | 94  | 93  | 93  | 93  | 92  |
| 6   | 104 | 99  | 96  | 93  | 103 | 98  | 95  | 93  | 97  | 94  | 92  | 96  | 94  | 92  | 95  | 93  | 91  | 91  | 91  | 91  |
| 7   | 102 | 97  | 94  | 91  | 101 | 96  | 93  | 91  | 95  | 93  | 91  | 94  | 92  | 90  | 94  | 92  | 90  | 90  | 90  | 89  |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  | 94  | 91  | 89  | 93  | 91  | 89  | 92  | 90  | 89  | 89  | 89  | 88  |
| 9   | 98  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 90  | 88  | 92  | 89  | 88  | 91  | 89  | 87  | 87  | 87  | 87  |
| 10  | 97  | 92  | 89  | 87  | 96  | 92  | 89  | 87  | 91  | 88  | 87  | 90  | 88  | 86  | 90  | 88  | 86  | 86  | 86  | 86  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1671817 | 1671817 | 1671817 |
| 5°  | 1318732 | 1322259 | 1317557 |
| 10° | 603334  | 587525  | 616083  |
| 15° | 179386  | 160147  | 175748  |
| 20° | 53278   | 51665   | 55936   |
| 25° | 15145   | 19573   | 17539   |
| 30° | 5409    | 5807    | 5210    |
| 35° | 2039    | 1829    | 1829    |
| 40° | 877     | 427     | 652     |
| 45° | 463     | 244     | 463     |
| 50° | 268     | 0       | 268     |
| 55° | 300     | 0       | 300     |
| 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: 0°

Vertical Angle: 47.5°

Luminance: 484 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 586.5  | 60.3      |
| 10°-20°   | 325.6  | 33.5      |
| 20°-30°   | 51.8   | 5.3       |
| 30°-40°   | 6.8    | 0.7       |
| 40°-50°   | 1.0    | 0.1       |
| 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°    | 964.0  | 99.2      |
| 0°-40°    | 970.7  | 99.9      |
| 0°-60°    | 972.0  | 100.0     |
| 0°-90°    | 972.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 972.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 9707 | 9707  | 9707 | 9707  | 9707 |      |
| 5°  | 7628 | 7692  | 7648 | 7616  | 7621 | 585  |
| 15° | 1006 | 993   | 898  | 954   | 986  | 332  |
| 25° | 80   | 89    | 103  | 103   | 92   | 49   |
| 35° | 10   | 10    | 9    | 10    | 9    | 7    |
| 45° | 2    | 1     | 1    | 1     | 2    | 2    |
| 55° | 1    | 0     | 0    | 0     | 1    | 1    |
| 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    | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9707.3 | 9707.3 | 9707.3 | 9707.3 | 9707.3 | 9707.3 | 9707.3 | 9707.3 | 9707.3 | 9707.3 | 9707.3 |
| 1°    | 9623.7 | 9634.4 | 9648.0 | 9635.4 | 9623.7 | 9634.4 | 9619.8 | 9621.8 | 9610.1 | 9635.4 | 9663.6 |
| 2°    | 9378.8 | 9392.4 | 9384.6 | 9367.1 | 9394.3 | 9396.3 | 9366.1 | 9351.5 | 9349.6 | 9374.9 | 9384.6 |
| 3°    | 8945.2 | 8976.3 | 8977.3 | 8971.5 | 8962.7 | 8945.2 | 8914.1 | 8934.5 | 8906.3 | 8888.8 | 8988.0 |
| 4°    | 8368.8 | 8396.0 | 8428.1 | 8406.7 | 8342.5 | 8348.3 | 8368.8 | 8299.7 | 8303.6 | 8343.5 | 8346.4 |
| 5°    | 7628.0 | 7710.6 | 7714.5 | 7684.4 | 7633.9 | 7648.4 | 7633.9 | 7614.4 | 7621.2 | 7646.5 | 7621.2 |
| 6°    | 6756.0 | 6849.4 | 6780.4 | 6846.5 | 6831.9 | 6850.3 | 6855.2 | 6834.8 | 6849.4 | 6833.8 | 6829.0 |
| 7°    | 6002.7 | 5931.7 | 5941.4 | 5914.2 | 5943.4 | 5962.8 | 5974.5 | 5939.5 | 5967.7 | 6012.4 | 6025.0 |
| 8°    | 5068.5 | 5048.1 | 5027.7 | 5076.3 | 5062.7 | 5086.0 | 5100.6 | 5139.5 | 5137.5 | 5151.1 | 5195.8 |
| 9°    | 4179.0 | 4209.2 | 4227.6 | 4184.9 | 4221.8 | 4149.9 | 4175.1 | 4279.2 | 4251.9 | 4279.2 | 4358.9 |
| 10°   | 3450.0 | 3474.3 | 3447.0 | 3446.1 | 3407.2 | 3359.6 | 3356.6 | 3395.5 | 3477.2 | 3541.3 | 3522.9 |
| 12.5° | 1903.4 | 1924.7 | 1927.7 | 1925.7 | 1855.7 | 1777.0 | 1791.6 | 1822.7 | 1873.2 | 1894.6 | 1929.6 |
| 15°   | 1006.1 | 1005.1 | 1015.8 | 985.7  | 948.8  | 898.2  | 902.1  | 944.9  | 982.8  | 992.5  | 985.7  |
| 17.5° | 516.2  | 518.1  | 525.9  | 518.1  | 479.2  | 484.1  | 494.8  | 499.7  | 522.0  | 530.8  | 525.9  |
| 20°   | 290.7  | 291.6  | 290.7  | 293.6  | 278.0  | 281.9  | 295.5  | 296.5  | 301.3  | 306.2  | 305.2  |
| 22.5° | 166.2  | 167.2  | 173.0  | 171.1  | 167.2  | 172.1  | 175.0  | 179.8  | 181.8  | 179.8  | 185.7  |
| 25°   | 79.7   | 80.7   | 80.7   | 92.3   | 98.2   | 103.0  | 105.0  | 103.0  | 101.1  | 93.3   | 92.3   |
| 27.5° | 45.7   | 45.7   | 47.6   | 48.6   | 50.5   | 59.3   | 58.3   | 48.6   | 40.8   | 40.8   | 41.8   |
| 30°   | 27.2   | 26.2   | 26.2   | 27.2   | 28.2   | 29.2   | 27.2   | 26.2   | 26.2   | 27.2   | 26.2   |
| 32.5° | 16.5   | 16.5   | 16.5   | 15.6   | 15.6   | 14.6   | 14.6   | 16.5   | 16.5   | 16.5   | 16.5   |
| 35°   | 9.7    | 9.7    | 9.7    | 9.7    | 8.7    | 8.7    | 8.7    | 9.7    | 9.7    | 8.7    | 8.7    |
| 37.5° | 5.8    | 5.8    | 5.8    | 4.9    | 4.9    | 3.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    |
| 40°   | 3.9    | 3.9    | 2.9    | 2.9    | 1.9    | 1.9    | 1.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 42.5° | 2.9    | 2.9    | 1.9    | 1.9    | 1.0    | 1.0    | 1.0    | 1.9    | 1.9    | 1.9    | 1.9    |
| 45°   | 1.9    | 1.9    | 1.9    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.9    | 1.9    |
| 47.5° | 1.9    | 1.9    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 50°   | 1.0    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    |
| 52.5° | 1.0    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    |
| 55°   | 1.0    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)