

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: P1316996

Luminaire Tested: LDSQA3D02R159827DE010 3LSQPHR1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316996  
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: LDSQA3D02R159827DE010 3LSQPHR1MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , 3LSQPHR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

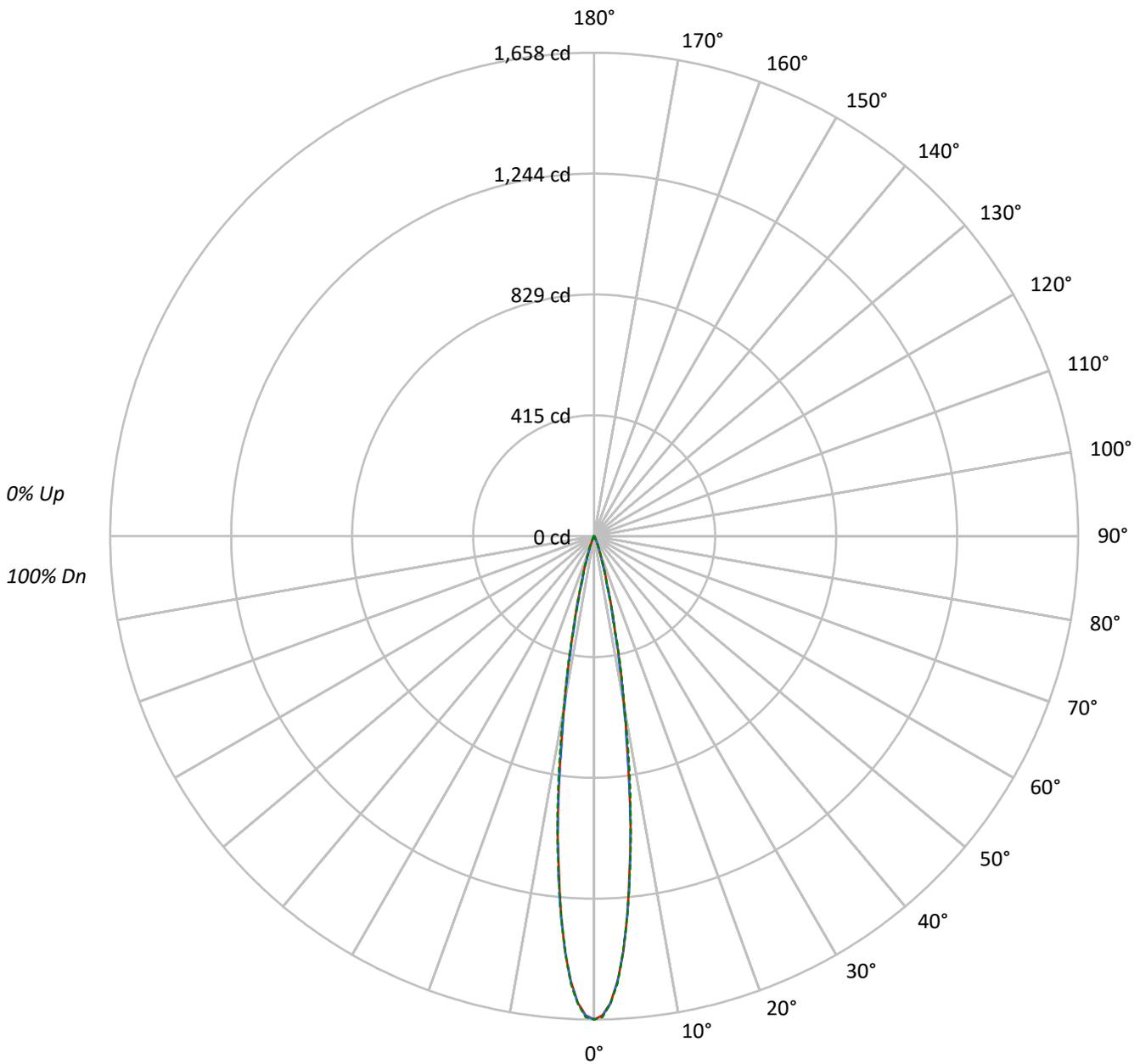
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 166.0 lumens  
Efficiency: N/A  
Efficacy: 46.1 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): 3.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



— 0°-180°    - - 45°-225°    ···· 90°-270°



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

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 285511 | 285511 | 285511 |
| 5°  | 225211 | 225817 | 225021 |
| 10° | 103039 | 100346 | 105207 |
| 15° | 30632  | 27351  | 30008  |
| 20° | 9090   | 8816   | 9549   |
| 25° | 2584   | 3344   | 3002   |
| 30° | 915    | 994    | 895    |
| 35° | 357    | 315    | 315    |
| 40° | 157    | 67     | 112    |
| 45° | 73     | 49     | 73     |
| 50° | 54     | 0      | 54     |
| 55° | 60     | 0      | 60     |
| 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: 76 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.2  | 60.3      |
| 10°-20°   | 55.6   | 33.5      |
| 20°-30°   | 8.9    | 5.3       |
| 30°-40°   | 1.2    | 0.7       |
| 40°-50°   | 0.2    | 0.1       |
| 50°-60°   | 0.0    | 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       |
| 0°-30°    | 164.6  | 99.2      |
| 0°-40°    | 165.8  | 99.9      |
| 0°-60°    | 166.0  | 100.0     |
| 0°-90°    | 166.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 166.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1658 | 1658  | 1658 | 1658  | 1658 |      |
| 5°  | 1303 | 1314  | 1306 | 1301  | 1302 | 100  |
| 15° | 172  | 170   | 153  | 163   | 168  | 57   |
| 25° | 14   | 15    | 18   | 18    | 16   | 8    |
| 35° | 2    | 2     | 2    | 2     | 2    | 1    |
| 45° | 0    | 0     | 0    | 0     | 0    | 0    |
| 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    | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1657.8 | 1657.8 | 1657.8 | 1657.8 | 1657.8 | 1657.8 | 1657.8 | 1657.8 | 1657.8 | 1657.8 | 1657.8 |
| 1°    | 1643.6 | 1645.4 | 1647.7 | 1645.6 | 1643.6 | 1645.4 | 1642.9 | 1643.2 | 1641.2 | 1645.6 | 1650.4 |
| 2°    | 1601.7 | 1604.0 | 1602.7 | 1599.7 | 1604.4 | 1604.7 | 1599.6 | 1597.1 | 1596.7 | 1601.1 | 1602.7 |
| 3°    | 1527.7 | 1533.0 | 1533.2 | 1532.2 | 1530.7 | 1527.7 | 1522.4 | 1525.9 | 1521.0 | 1518.0 | 1535.0 |
| 4°    | 1429.2 | 1433.9 | 1439.4 | 1435.7 | 1424.7 | 1425.7 | 1429.2 | 1417.4 | 1418.1 | 1424.9 | 1425.4 |
| 5°    | 1302.7 | 1316.8 | 1317.5 | 1312.4 | 1303.7 | 1306.2 | 1303.7 | 1300.4 | 1301.6 | 1305.9 | 1301.6 |
| 6°    | 1153.8 | 1169.7 | 1158.0 | 1169.3 | 1166.8 | 1169.9 | 1170.7 | 1167.3 | 1169.7 | 1167.1 | 1166.3 |
| 7°    | 1025.1 | 1013.0 | 1014.7 | 1010.0 | 1015.0 | 1018.3 | 1020.3 | 1014.4 | 1019.2 | 1026.8 | 1029.0 |
| 8°    | 865.6  | 862.1  | 858.6  | 866.9  | 864.6  | 868.6  | 871.1  | 877.7  | 877.4  | 879.7  | 887.4  |
| 9°    | 713.7  | 718.8  | 722.0  | 714.7  | 721.0  | 708.7  | 713.0  | 730.8  | 726.2  | 730.8  | 744.4  |
| 10°   | 589.2  | 593.3  | 588.7  | 588.5  | 581.9  | 573.8  | 573.3  | 579.9  | 593.8  | 604.8  | 601.6  |
| 12.5° | 325.1  | 328.7  | 329.2  | 328.9  | 316.9  | 303.5  | 306.0  | 311.3  | 319.9  | 323.6  | 329.5  |
| 15°   | 171.8  | 171.7  | 173.5  | 168.3  | 162.0  | 153.4  | 154.1  | 161.4  | 167.8  | 169.5  | 168.3  |
| 17.5° | 88.2   | 88.5   | 89.8   | 88.5   | 81.8   | 82.7   | 84.5   | 85.3   | 89.2   | 90.6   | 89.8   |
| 20°   | 49.6   | 49.8   | 49.6   | 50.1   | 47.5   | 48.1   | 50.5   | 50.6   | 51.5   | 52.3   | 52.1   |
| 22.5° | 28.4   | 28.6   | 29.6   | 29.2   | 28.6   | 29.4   | 29.9   | 30.7   | 31.0   | 30.7   | 31.7   |
| 25°   | 13.6   | 13.8   | 13.8   | 15.8   | 16.8   | 17.6   | 17.9   | 17.6   | 17.3   | 15.9   | 15.8   |
| 27.5° | 7.8    | 7.8    | 8.1    | 8.3    | 8.6    | 10.1   | 10.0   | 8.3    | 7.0    | 7.0    | 7.1    |
| 30°   | 4.6    | 4.5    | 4.5    | 4.6    | 4.8    | 5.0    | 4.6    | 4.5    | 4.5    | 4.6    | 4.5    |
| 32.5° | 2.8    | 2.8    | 2.8    | 2.7    | 2.7    | 2.5    | 2.5    | 2.8    | 2.8    | 2.8    | 2.8    |
| 35°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.5    | 1.5    | 1.5    | 1.7    | 1.7    | 1.5    | 1.5    |
| 37.5° | 1.0    | 1.0    | 1.0    | 0.8    | 0.8    | 0.7    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 40°   | 0.7    | 0.7    | 0.5    | 0.5    | 0.3    | 0.3    | 0.3    | 0.5    | 0.5    | 0.5    | 0.5    |
| 42.5° | 0.5    | 0.5    | 0.3    | 0.3    | 0.2    | 0.2    | 0.2    | 0.3    | 0.3    | 0.3    | 0.3    |
| 45°   | 0.3    | 0.3    | 0.3    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.3    | 0.3    |
| 47.5° | 0.3    | 0.3    | 0.2    | 0.2    | 0.0    | 0.0    | 0.0    | 0.2    | 0.2    | 0.2    | 0.2    |
| 50°   | 0.2    | 0.2    | 0.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.2    | 0.2    | 0.2    |
| 52.5° | 0.2    | 0.2    | 0.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.2    | 0.2    | 0.2    |
| 55°   | 0.2    | 0.2    | 0.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.2    | 0.2    |
| 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    | 0.2    | 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)