

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: P1319622

Luminaire Tested: LDSQA3D02R159840DE010 3LSQCDR1MW

Issue Date: 1/29/2026

**Test Information**

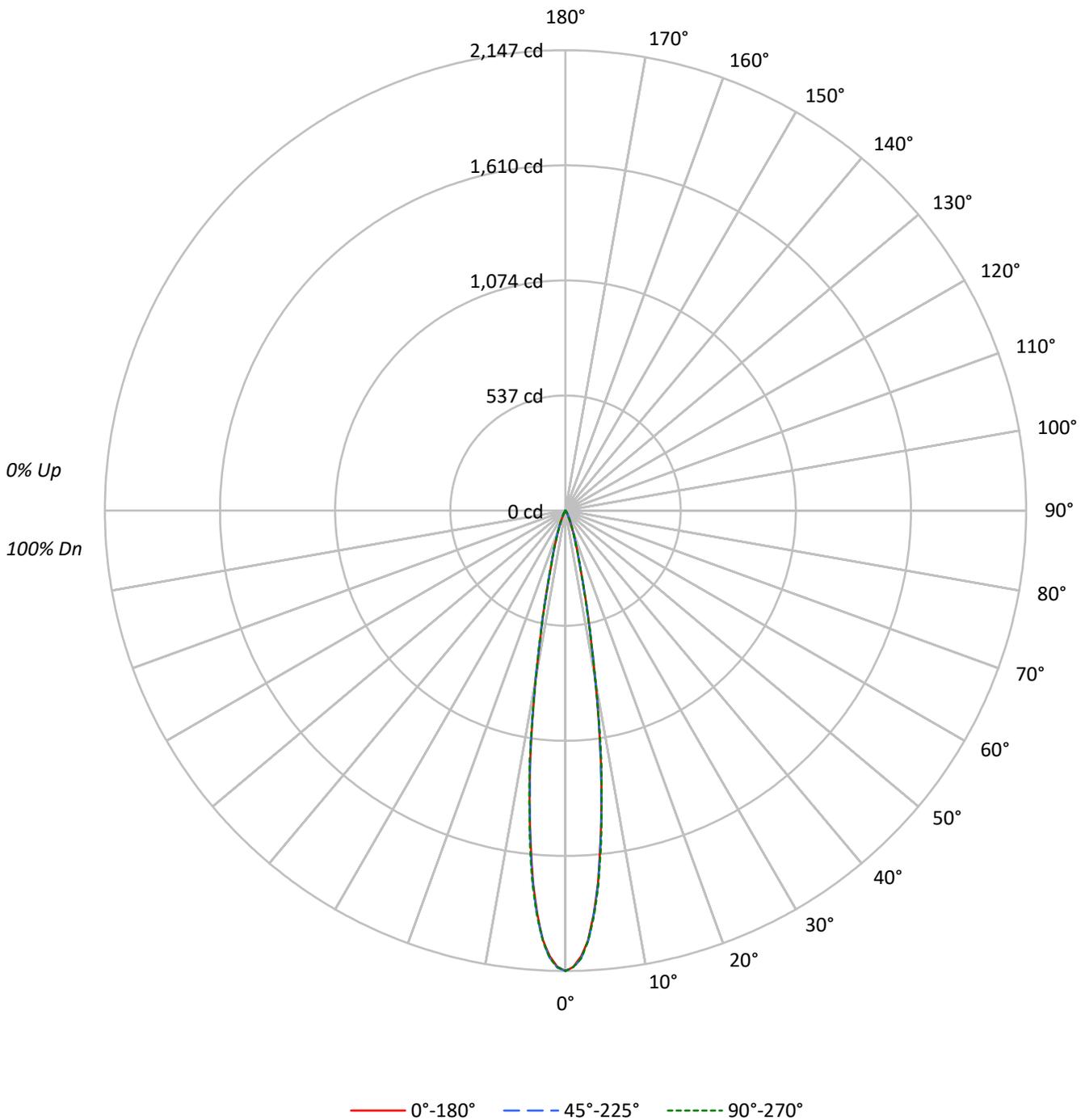
Test Method: LM-79-2019  
Report Number: P1319622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-33)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R159840DE010 3LSQCDR1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , 3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 241.0 lumens  
Efficiency: N/A  
Efficacy: 67.0 lumens/watt  
Spacing Criteria (0/90/45): 0.29 / 0.3 / 0.29  
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





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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  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 105 | 104 | 103 | 102 | 101 | 100 | 99  | 99  | 98  | 98  | 98  |
| 2   | 112 | 109 | 107 | 105 | 110 | 108 | 105 | 103 | 105 | 103 | 101 | 102 | 100 | 99  | 99  | 98  | 97  | 99  | 98  | 97  | 96  |
| 3   | 110 | 106 | 103 | 100 | 108 | 104 | 102 | 99  | 102 | 100 | 98  | 100 | 98  | 96  | 98  | 96  | 95  | 98  | 96  | 95  | 94  |
| 4   | 107 | 102 | 99  | 97  | 106 | 101 | 98  | 96  | 100 | 97  | 95  | 98  | 96  | 94  | 96  | 94  | 93  | 96  | 94  | 93  | 92  |
| 5   | 105 | 100 | 96  | 94  | 103 | 99  | 96  | 93  | 97  | 95  | 93  | 96  | 94  | 92  | 95  | 93  | 91  | 95  | 93  | 91  | 90  |
| 6   | 102 | 97  | 94  | 91  | 101 | 97  | 93  | 91  | 95  | 92  | 90  | 94  | 92  | 90  | 93  | 91  | 89  | 93  | 91  | 89  | 88  |
| 7   | 100 | 95  | 92  | 89  | 99  | 94  | 91  | 89  | 93  | 91  | 89  | 92  | 90  | 88  | 92  | 89  | 88  | 92  | 89  | 88  | 87  |
| 8   | 98  | 93  | 90  | 87  | 98  | 93  | 89  | 87  | 92  | 89  | 87  | 91  | 88  | 86  | 90  | 88  | 86  | 90  | 88  | 86  | 85  |
| 9   | 97  | 91  | 88  | 86  | 96  | 91  | 88  | 85  | 90  | 87  | 85  | 89  | 87  | 85  | 89  | 86  | 85  | 89  | 86  | 85  | 84  |
| 10  | 95  | 89  | 86  | 84  | 94  | 89  | 86  | 84  | 89  | 86  | 84  | 88  | 85  | 84  | 87  | 85  | 83  | 87  | 85  | 83  | 83  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 369728 | 369728 | 369728 |
| 5°  | 300639 | 301676 | 302731 |
| 10° | 140008 | 140148 | 139379 |
| 15° | 43326  | 44878  | 44022  |
| 20° | 17265  | 18236  | 17063  |
| 25° | 7221   | 8513   | 6860   |
| 30° | 2943   | 3918   | 2705   |
| 35° | 946    | 1787   | 883    |
| 40° | 337    | 719    | 337    |
| 45° | 146    | 219    | 146    |
| 50° | 107    | 161    | 107    |
| 55° | 120    | 120    | 120    |
| 60° | 138    | 138    | 138    |
| 65° | 82     | 82     | 82     |
| 70° | 101    | 101    | 101    |
| 75° | 133    | 133    | 133    |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 219 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.4  | 55.7      |
| 10°-20°   | 80.3   | 33.3      |
| 20°-30°   | 20.4   | 8.5       |
| 30°-40°   | 4.4    | 1.8       |
| 40°-50°   | 0.7    | 0.3       |
| 50°-60°   | 0.4    | 0.2       |
| 60°-70°   | 0.2    | 0.1       |
| 70°-80°   | 0.1    | 0.1       |
| 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°    | 235.2  | 97.6      |
| 0°-40°    | 239.6  | 99.4      |
| 0°-60°    | 240.7  | 99.9      |
| 0°-90°    | 241.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 241.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2147 | 2147  | 2147 | 2147  | 2147 |      |
| 5°  | 1739 | 1741  | 1745 | 1737  | 1751 | 134  |
| 15° | 243  | 250   | 252  | 248   | 247  | 80   |
| 25° | 38   | 41    | 45   | 40    | 36   | 19   |
| 35° | 4    | 6     | 8    | 6     | 4    | 4    |
| 45° | 1    | 1     | 1    | 1     | 1    | 1    |
| 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°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2146.8 | 2146.8 | 2146.8 | 2146.8 | 2146.8 |
| 1°    | 2128.0 | 2131.6 | 2132.2 | 2131.6 | 2128.6 |
| 2°    | 2080.2 | 2090.8 | 2088.5 | 2083.9 | 2090.4 |
| 3°    | 2006.2 | 2011.5 | 2010.7 | 2011.1 | 2009.6 |
| 4°    | 1885.8 | 1895.1 | 1889.8 | 1893.8 | 1894.2 |
| 5°    | 1739.0 | 1741.4 | 1745.0 | 1737.1 | 1751.1 |
| 6°    | 1558.3 | 1574.0 | 1560.2 | 1573.8 | 1579.3 |
| 7°    | 1374.5 | 1383.6 | 1366.0 | 1375.5 | 1381.2 |
| 8°    | 1186.6 | 1170.7 | 1180.4 | 1180.6 | 1199.3 |
| 9°    | 983.8  | 987.0  | 995.1  | 985.9  | 994.0  |
| 10°   | 800.6  | 808.0  | 801.4  | 798.2  | 797.0  |
| 11°   | 632.2  | 640.5  | 640.0  | 640.9  | 634.7  |
| 12°   | 508.6  | 504.3  | 507.1  | 497.9  | 502.0  |
| 13°   | 395.9  | 396.0  | 393.8  | 390.0  | 386.6  |
| 14°   | 310.1  | 308.2  | 313.5  | 308.8  | 304.5  |
| 15°   | 243.0  | 249.8  | 251.7  | 248.1  | 246.9  |
| 17.5° | 149.9  | 150.1  | 152.7  | 149.3  | 148.9  |
| 20°   | 94.2   | 96.5   | 99.5   | 95.9   | 93.1   |
| 22.5° | 59.6   | 61.7   | 66.4   | 61.9   | 57.9   |
| 25°   | 38.0   | 40.7   | 44.8   | 39.7   | 36.1   |
| 27.5° | 23.8   | 26.3   | 30.3   | 25.5   | 22.9   |
| 30°   | 14.8   | 16.5   | 19.7   | 16.1   | 13.6   |
| 32.5° | 8.5    | 10.2   | 12.9   | 9.7    | 8.1    |
| 35°   | 4.5    | 5.9    | 8.5    | 5.7    | 4.2    |
| 37.5° | 2.6    | 3.4    | 5.5    | 3.0    | 2.5    |
| 40°   | 1.5    | 2.1    | 3.2    | 1.9    | 1.5    |
| 42.5° | 0.9    | 1.3    | 1.5    | 1.1    | 0.8    |
| 45°   | 0.6    | 0.8    | 0.9    | 0.8    | 0.6    |
| 47.5° | 0.4    | 0.6    | 0.8    | 0.4    | 0.4    |
| 50°   | 0.4    | 0.4    | 0.6    | 0.4    | 0.4    |
| 52.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 55°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 57.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 60°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 62.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 65°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 67.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 70°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 72.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 75°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 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)