

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: P1313932

Luminaire Tested: LDSQA3D20R159727D010 3LSQCDR1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313932
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: LDSQA3D20R159727D010 3LSQCDR1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , 3LSQCDR1MW TRIM
Light Source: -
Ballast/Driver: -

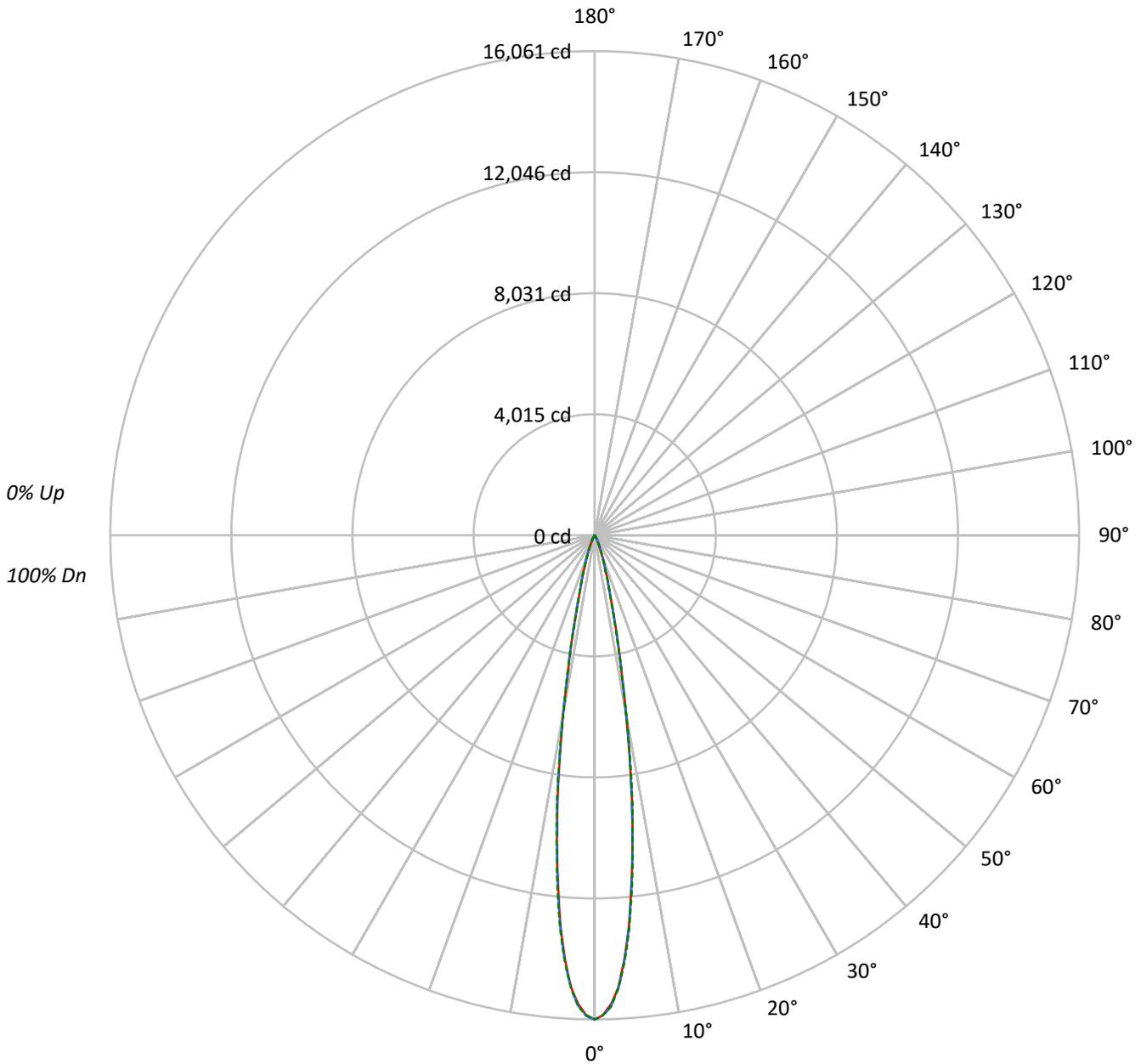
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1802.9 lumens
Efficiency: N/A
Efficacy: 62.6 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): 28.8
Input Voltage (V): NR
Input Current (A_{in}): 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 | 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 | 99 | 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 | 87 | 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° | 2766016 | 2766016 | 2766016 |
| 5° | 2249158 | 2256990 | 2264821 |
| 10° | 1047475 | 1048455 | 1042771 |
| 15° | 324092 | 335699 | 329388 |
| 20° | 129209 | 136467 | 127651 |
| 25° | 54063 | 63754 | 51383 |
| 30° | 21955 | 29273 | 20264 |
| 35° | 7148 | 13393 | 6539 |
| 40° | 2540 | 5418 | 2540 |
| 45° | 1023 | 1729 | 1023 |
| 50° | 750 | 1125 | 750 |
| 55° | 841 | 841 | 841 |
| 60° | 964 | 964 | 964 |
| 65° | 571 | 571 | 571 |
| 70° | 705 | 705 | 705 |
| 75° | 932 | 932 | 932 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1729 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1005.3 | 55.8 |
| 10°-20° | 601.1 | 33.3 |
| 20°-30° | 153.0 | 8.5 |
| 30°-40° | 33.2 | 1.8 |
| 40°-50° | 5.4 | 0.3 |
| 50°-60° | 2.5 | 0.1 |
| 60°-70° | 1.6 | 0.1 |
| 70°-80° | 0.9 | 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° | 1759.3 | 97.6 |
| 0°-40° | 1792.6 | 99.4 |
| 0°-60° | 1800.5 | 99.9 |
| 0°-90° | 1802.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1802.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 16061 | 16061 | 16061 | 16061 | 16061 | |
| 5° | 13010 | 13028 | 13055 | 12996 | 13100 | 1003 |
| 15° | 1818 | 1869 | 1883 | 1856 | 1847 | 598 |
| 25° | 284 | 304 | 336 | 297 | 270 | 145 |
| 35° | 34 | 44 | 64 | 42 | 31 | 27 |
| 45° | 4 | 6 | 7 | 6 | 4 | 4 |
| 55° | 3 | 3 | 3 | 3 | 3 | 3 |
| 65° | 1 | 1 | 1 | 1 | 1 | 2 |
| 75° | 1 | 1 | 1 | 1 | 1 | 1 |
| 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° | 16060.7 | 16060.7 | 16060.7 | 16060.7 | 16060.7 |
| 1° | 15920.5 | 15947.4 | 15951.7 | 15947.4 | 15924.8 |
| 2° | 15562.4 | 15641.6 | 15624.7 | 15590.7 | 15638.8 |
| 3° | 15008.8 | 15048.5 | 15042.8 | 15045.6 | 15034.3 |
| 4° | 14108.5 | 14177.8 | 14138.2 | 14167.9 | 14170.8 |
| 5° | 13009.9 | 13028.3 | 13055.2 | 12995.8 | 13100.5 |
| 6° | 11658.0 | 11775.5 | 11672.1 | 11774.1 | 11815.1 |
| 7° | 10283.4 | 10351.3 | 10219.7 | 10290.4 | 10332.9 |
| 8° | 8877.6 | 8758.7 | 8830.9 | 8832.3 | 8972.5 |
| 9° | 7360.0 | 7384.1 | 7445.0 | 7375.6 | 7436.5 |
| 10° | 5989.7 | 6044.9 | 5995.3 | 5971.3 | 5962.8 |
| 11° | 4729.7 | 4792.0 | 4787.8 | 4794.8 | 4748.1 |
| 12° | 3805.3 | 3772.7 | 3794.0 | 3724.6 | 3755.7 |
| 13° | 2961.6 | 2963.0 | 2946.0 | 2917.7 | 2892.2 |
| 14° | 2320.3 | 2306.1 | 2345.8 | 2310.4 | 2277.8 |
| 15° | 1817.7 | 1868.7 | 1882.8 | 1855.9 | 1847.4 |
| 17.5° | 1121.2 | 1122.6 | 1142.4 | 1117.0 | 1114.1 |
| 20° | 705.0 | 722.0 | 744.6 | 717.7 | 696.5 |
| 22.5° | 445.9 | 461.5 | 496.9 | 462.9 | 433.2 |
| 25° | 284.5 | 304.4 | 335.5 | 297.3 | 270.4 |
| 27.5° | 178.4 | 196.8 | 226.5 | 191.1 | 171.3 |
| 30° | 110.4 | 123.2 | 147.2 | 120.3 | 101.9 |
| 32.5° | 63.7 | 76.4 | 96.3 | 72.2 | 60.9 |
| 35° | 34.0 | 43.9 | 63.7 | 42.5 | 31.1 |
| 37.5° | 19.8 | 25.5 | 41.1 | 22.7 | 18.4 |
| 40° | 11.3 | 15.6 | 24.1 | 14.2 | 11.3 |
| 42.5° | 7.1 | 9.9 | 11.3 | 8.5 | 5.7 |
| 45° | 4.2 | 5.7 | 7.1 | 5.7 | 4.2 |
| 47.5° | 2.8 | 4.2 | 5.7 | 2.8 | 2.8 |
| 50° | 2.8 | 2.8 | 4.2 | 2.8 | 2.8 |
| 52.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 55° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 57.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 60° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 62.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 65° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 67.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 70° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 72.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 75° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 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)