

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: P1309556

Luminaire Tested: LDSQA3D20R309030D010 3LSQPHRLD1MW

Issue Date: 1/29/2026

**Test Information**

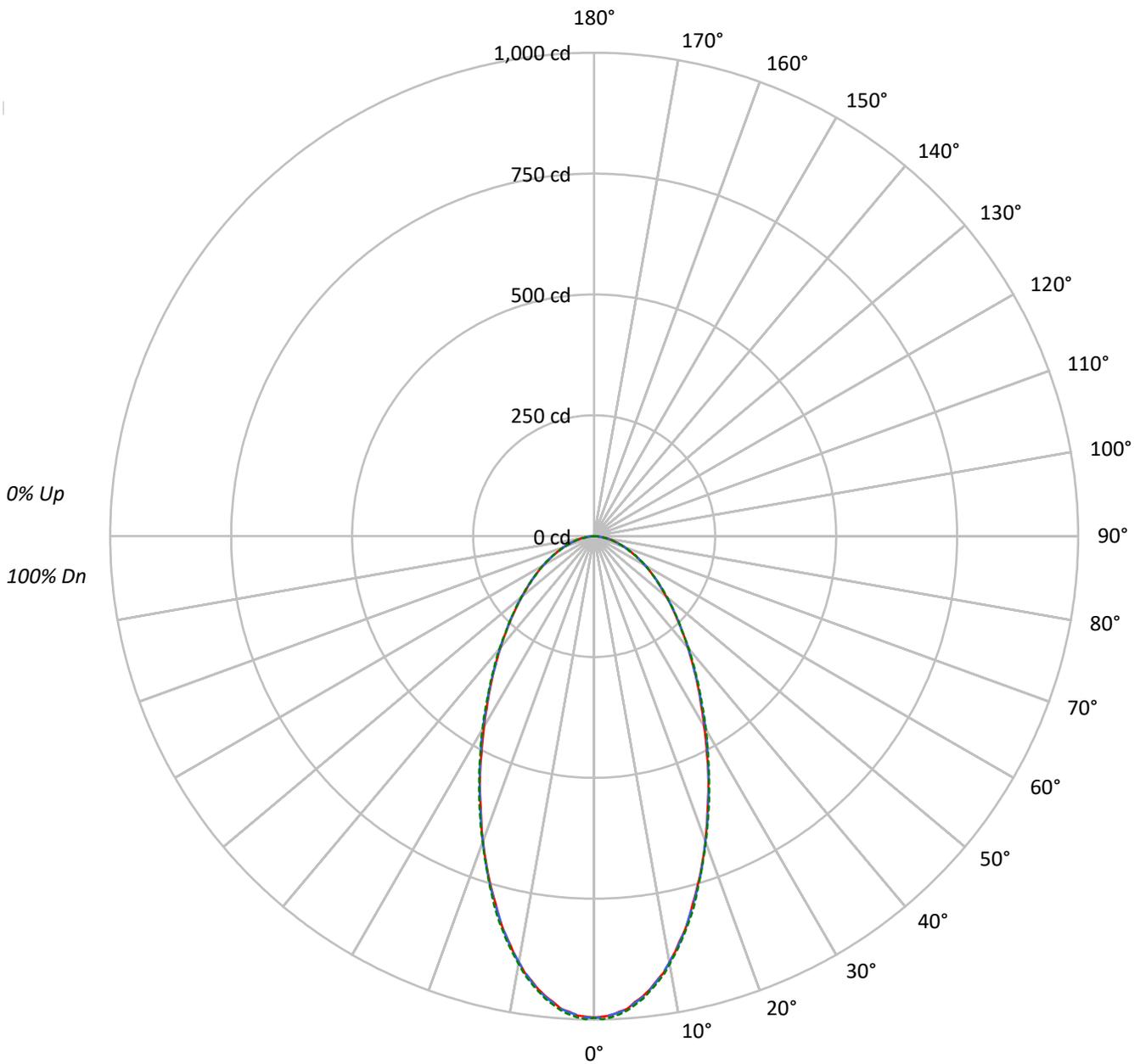
Test Method: LM-79-2019  
Report Number: P1309556  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R309030D010 3LSQPHRLD1MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , 3LSQPHRLD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1279.0 lumens  
Efficiency: N/A  
Efficacy: 44.4 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.9  
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 (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



— 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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 100 |    |
| 1   | 111 | 107 | 103 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 90  | 88  |    |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 83  | 87  | 84  | 81  | 85  | 82  | 79  | 79  | 77  |    |
| 3   | 95  | 86  | 80  | 74  | 93  | 85  | 79  | 74  | 82  | 77  | 72  | 79  | 75  | 71  | 77  | 73  | 70  | 70  | 68  |    |
| 4   | 89  | 78  | 71  | 65  | 86  | 77  | 70  | 65  | 75  | 69  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 62  | 60  |    |
| 5   | 83  | 72  | 64  | 58  | 81  | 71  | 63  | 58  | 69  | 62  | 57  | 67  | 61  | 57  | 65  | 60  | 56  | 56  | 54  |    |
| 6   | 77  | 66  | 58  | 52  | 76  | 65  | 58  | 52  | 63  | 57  | 52  | 62  | 56  | 51  | 60  | 55  | 51  | 51  | 49  |    |
| 7   | 72  | 61  | 53  | 48  | 71  | 60  | 53  | 47  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 47  | 45  |    |
| 8   | 68  | 56  | 49  | 44  | 67  | 56  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 43  | 41  |    |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 43  | 40  | 40  | 38  |    |
| 10  | 61  | 49  | 42  | 37  | 60  | 48  | 42  | 37  | 48  | 41  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 37  | 35  |    |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 171551 | 171551 | 171551 |
| 5°  | 167314 | 167608 | 168230 |
| 10° | 156552 | 156552 | 157182 |
| 15° | 140374 | 140695 | 141640 |
| 20° | 123216 | 123216 | 123546 |
| 25° | 106244 | 106244 | 106909 |
| 30° | 90424  | 91478  | 91836  |
| 35° | 78106  | 78484  | 78863  |
| 40° | 67626  | 68008  | 68413  |
| 45° | 59039  | 59477  | 59477  |
| 50° | 52139  | 52139  | 52622  |
| 55° | 46751  | 46751  | 46751  |
| 60° | 42057  | 42057  | 42057  |
| 65° | 37491  | 37491  | 37491  |
| 70° | 33838  | 33838  | 33838  |
| 75° | 30609  | 29411  | 29411  |
| 80° | 26282  | 24596  | 24596  |
| 85° | 17389  | 17389  | 17389  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 59477 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.2   | 7.1       |
| 10°-20°   | 219.9  | 17.2      |
| 20°-30°   | 256.9  | 20.1      |
| 30°-40°   | 233.7  | 18.3      |
| 40°-50°   | 188.8  | 14.8      |
| 50°-60°   | 139.4  | 10.9      |
| 60°-70°   | 91.8   | 7.2       |
| 70°-80°   | 47.5   | 3.7       |
| 80°-90°   | 10.8   | 0.8       |
| 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°    | 567.0  | 44.3      |
| 0°-40°    | 800.7  | 62.6      |
| 0°-60°    | 1129.0 | 88.3      |
| 0°-90°    | 1279.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1279.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 996 | 996   | 996 | 996   | 996 |      |
| 5°  | 968 | 968   | 970 | 970   | 973 | 90   |
| 15° | 787 | 789   | 789 | 789   | 794 | 220  |
| 25° | 559 | 557   | 559 | 559   | 563 | 256  |
| 35° | 372 | 370   | 373 | 373   | 375 | 233  |
| 45° | 242 | 244   | 244 | 244   | 244 | 188  |
| 55° | 156 | 154   | 156 | 154   | 156 | 140  |
| 65° | 92  | 92    | 92  | 92    | 92  | 92   |
| 75° | 46  | 44    | 44  | 44    | 44  | 49   |
| 85° | 9   | 9     | 9   | 9     | 9   | 11   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 996.1 | 996.1 | 996.1 | 996.1 | 996.1 |
| 1°    | 994.3 | 994.3 | 996.1 | 994.3 | 999.6 |
| 2°    | 992.5 | 990.8 | 990.8 | 990.8 | 996.1 |
| 3°    | 985.4 | 985.4 | 987.2 | 985.4 | 990.8 |
| 4°    | 980.1 | 978.4 | 980.1 | 978.4 | 983.7 |
| 5°    | 967.8 | 967.8 | 969.5 | 969.5 | 973.1 |
| 6°    | 957.1 | 957.1 | 958.9 | 957.1 | 962.4 |
| 7°    | 944.8 | 944.8 | 944.8 | 944.8 | 948.3 |
| 8°    | 928.8 | 928.8 | 930.6 | 930.6 | 934.1 |
| 9°    | 914.7 | 912.9 | 912.9 | 912.9 | 918.2 |
| 10°   | 895.2 | 895.2 | 895.2 | 895.2 | 898.8 |
| 11°   | 875.8 | 875.8 | 875.8 | 875.8 | 879.3 |
| 12°   | 854.5 | 854.5 | 856.3 | 854.5 | 859.8 |
| 13°   | 835.1 | 835.1 | 835.1 | 835.1 | 838.6 |
| 14°   | 812.1 | 810.3 | 812.1 | 812.1 | 817.4 |
| 15°   | 787.3 | 789.1 | 789.1 | 789.1 | 794.4 |
| 17.5° | 730.7 | 730.7 | 732.5 | 728.9 | 732.5 |
| 20°   | 672.3 | 670.5 | 672.3 | 672.3 | 674.1 |
| 22.5° | 612.1 | 613.9 | 613.9 | 613.9 | 617.5 |
| 25°   | 559.1 | 557.3 | 559.1 | 559.1 | 562.6 |
| 27.5° | 504.2 | 506.0 | 507.8 | 506.0 | 509.5 |
| 30°   | 454.7 | 458.2 | 460.0 | 456.5 | 461.8 |
| 32.5° | 410.5 | 410.5 | 412.2 | 414.0 | 415.8 |
| 35°   | 371.5 | 369.8 | 373.3 | 373.3 | 375.1 |
| 37.5° | 334.4 | 334.4 | 334.4 | 336.1 | 337.9 |
| 40°   | 300.8 | 300.8 | 302.5 | 302.5 | 304.3 |
| 42.5° | 270.7 | 268.9 | 270.7 | 270.7 | 270.7 |
| 45°   | 242.4 | 244.2 | 244.2 | 244.2 | 244.2 |
| 47.5° | 217.6 | 217.6 | 219.4 | 217.6 | 219.4 |
| 50°   | 194.6 | 194.6 | 194.6 | 194.6 | 196.4 |
| 52.5° | 173.4 | 173.4 | 173.4 | 173.4 | 175.2 |
| 55°   | 155.7 | 153.9 | 155.7 | 153.9 | 155.7 |
| 57.5° | 138.0 | 138.0 | 138.0 | 138.0 | 138.0 |
| 60°   | 122.1 | 120.3 | 122.1 | 120.3 | 122.1 |
| 62.5° | 106.2 | 106.2 | 106.2 | 106.2 | 106.2 |
| 65°   | 92.0  | 92.0  | 92.0  | 92.0  | 92.0  |
| 67.5° | 79.6  | 79.6  | 79.6  | 77.8  | 77.8  |
| 70°   | 67.2  | 67.2  | 67.2  | 67.2  | 67.2  |
| 72.5° | 56.6  | 54.8  | 54.8  | 54.8  | 54.8  |
| 75°   | 46.0  | 44.2  | 44.2  | 44.2  | 44.2  |
| 77.5° | 35.4  | 35.4  | 33.6  | 33.6  | 35.4  |
| 80°   | 26.5  | 24.8  | 24.8  | 24.8  | 24.8  |
| 82.5° | 15.9  | 15.9  | 15.9  | 15.9  | 15.9  |
| 85°   | 8.8   | 8.8   | 8.8   | 8.8   | 8.8   |
| 87.5° | 1.8   | 1.8   | 1.8   | 3.5   | 3.5   |



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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)