

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: P1309549

Luminaire Tested: LDSQA3D20R309030D010 3LSQCDR1MW

Issue Date: 1/29/2026

**Test Information**

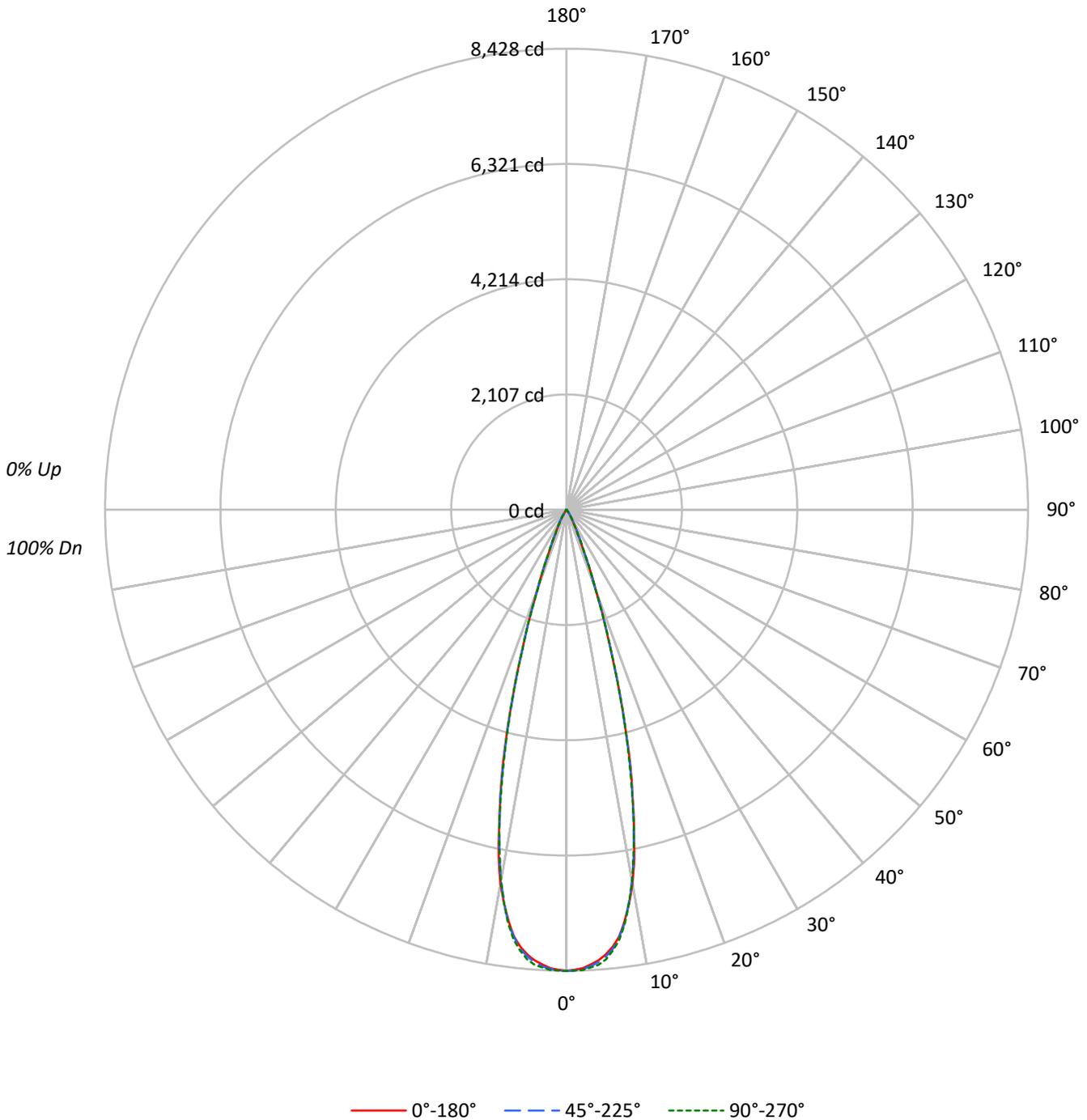
Test Method: LM-79-2019  
Report Number: P1309549  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-36)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R309030D010 3LSQCDR1MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , 3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2192.0 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46  
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<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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 99 | 98 |
| 1   | 115 | 113 | 111 | 109 | 113 | 111 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96 | 95 |
| 2   | 111 | 108 | 105 | 102 | 109 | 106 | 104 | 101 | 103 | 101 | 99  | 100 | 99  | 97  | 98  | 96  | 95  | 94  | 93 | 92 |
| 3   | 108 | 103 | 100 | 97  | 106 | 102 | 99  | 96  | 100 | 97  | 95  | 97  | 95  | 93  | 95  | 93  | 92  | 91  | 90 | 89 |
| 4   | 105 | 99  | 96  | 93  | 103 | 98  | 95  | 92  | 96  | 93  | 91  | 95  | 92  | 90  | 93  | 91  | 89  | 88  | 87 | 86 |
| 5   | 102 | 96  | 92  | 89  | 100 | 95  | 91  | 89  | 93  | 90  | 88  | 92  | 89  | 87  | 91  | 88  | 86  | 85  | 84 | 83 |
| 6   | 99  | 93  | 89  | 86  | 98  | 92  | 88  | 85  | 91  | 87  | 85  | 90  | 87  | 84  | 88  | 86  | 84  | 83  | 82 | 81 |
| 7   | 96  | 90  | 86  | 83  | 95  | 89  | 85  | 83  | 88  | 85  | 82  | 87  | 84  | 82  | 86  | 84  | 82  | 81  | 80 | 79 |
| 8   | 94  | 87  | 83  | 80  | 93  | 87  | 83  | 80  | 86  | 82  | 80  | 85  | 82  | 80  | 84  | 81  | 79  | 78  | 77 | 76 |
| 9   | 91  | 85  | 81  | 78  | 90  | 84  | 80  | 78  | 83  | 80  | 78  | 83  | 80  | 77  | 82  | 79  | 77  | 76  | 75 | 74 |
| 10  | 89  | 82  | 78  | 76  | 88  | 82  | 78  | 76  | 81  | 78  | 76  | 81  | 78  | 75  | 80  | 77  | 75  | 74  | 73 | 72 |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1451527 | 1451527 | 1451527 |
| 5°  | 1411759 | 1417897 | 1426662 |
| 10° | 1213978 | 1203625 | 1204815 |
| 15° | 745945  | 739901  | 740507  |
| 20° | 283894  | 284517  | 279239  |
| 25° | 90301   | 95127   | 90624   |
| 30° | 36313   | 45063   | 37327   |
| 35° | 11732   | 19910   | 11732   |
| 40° | 5328    | 8746    | 5328    |
| 45° | 2070    | 3702    | 2070    |
| 50° | 911     | 1822    | 911     |
| 55° | 1021    | 1021    | 1021    |
| 60° | 1171    | 1171    | 1171    |
| 65° | 693     | 693     | 693     |
| 70° | 856     | 856     | 856     |
| 75° | 1131    | 1131    | 1131    |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 3702 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 743.4  | 33.9      |
| 10°-20°   | 1102.9 | 50.3      |
| 20°-30°   | 274.0  | 12.5      |
| 30°-40°   | 54.7   | 2.5       |
| 40°-50°   | 10.0   | 0.5       |
| 50°-60°   | 3.1    | 0.1       |
| 60°-70°   | 2.3    | 0.1       |
| 70°-80°   | 1.6    | 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°    | 2120.4 | 96.7      |
| 0°-40°    | 2175.1 | 99.2      |
| 0°-60°    | 2188.2 | 99.8      |
| 0°-90°    | 2192.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2192.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 8428 | 8428  | 8428 | 8428  | 8428 |      |
| 5°  | 8166 | 8193  | 8202 | 8213  | 8252 | 742  |
| 15° | 4184 | 4192  | 4150 | 4163  | 4153 | 1107 |
| 25° | 475  | 485   | 501  | 494   | 477  | 266  |
| 35° | 56   | 73    | 95   | 71    | 56   | 45   |
| 45° | 8    | 10    | 15   | 12    | 8    | 7    |
| 55° | 3    | 3     | 3    | 3     | 3    | 3    |
| 65° | 2    | 2     | 2    | 2     | 2    | 2    |
| 75° | 2    | 2     | 2    | 2     | 2    | 2    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    | 0    |



TEST NUMBER: P1309549

CATALOG NUMBER: LDSQA3D20R309030D010 3LSQCDR1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 8428.2 | 8428.2 | 8428.2 | 8428.2 | 8428.2 |
| 1°    | 8409.6 | 8419.8 | 8426.5 | 8426.5 | 8426.5 |
| 2°    | 8385.9 | 8392.7 | 8402.8 | 8404.5 | 8418.1 |
| 3°    | 8330.1 | 8345.3 | 8362.3 | 8372.4 | 8379.2 |
| 4°    | 8262.5 | 8282.8 | 8292.9 | 8318.3 | 8340.3 |
| 5°    | 8166.1 | 8193.2 | 8201.6 | 8213.4 | 8252.3 |
| 6°    | 8035.9 | 8056.2 | 8073.1 | 8078.2 | 8101.8 |
| 7°    | 7863.4 | 7873.5 | 7870.2 | 7878.6 | 7920.9 |
| 8°    | 7601.3 | 7604.7 | 7633.4 | 7614.8 | 7643.6 |
| 9°    | 7290.1 | 7276.6 | 7269.8 | 7283.4 | 7285.1 |
| 10°   | 6941.8 | 6896.1 | 6882.6 | 6870.7 | 6889.4 |
| 11°   | 6490.3 | 6431.1 | 6436.1 | 6432.8 | 6405.7 |
| 12°   | 5928.8 | 5922.1 | 5878.1 | 5886.6 | 5927.1 |
| 13°   | 5355.6 | 5367.4 | 5358.9 | 5369.1 | 5323.4 |
| 14°   | 4817.8 | 4760.3 | 4775.5 | 4718.0 | 4740.0 |
| 15°   | 4183.7 | 4192.1 | 4149.8 | 4163.4 | 4153.2 |
| 17.5° | 2678.6 | 2697.2 | 2683.7 | 2671.9 | 2690.5 |
| 20°   | 1549.0 | 1547.3 | 1552.4 | 1537.2 | 1523.6 |
| 22.5° | 815.1  | 826.9  | 842.1  | 843.8  | 854.0  |
| 25°   | 475.2  | 485.3  | 500.6  | 493.8  | 476.9  |
| 27.5° | 290.9  | 309.5  | 333.1  | 316.2  | 295.9  |
| 30°   | 182.6  | 197.9  | 226.6  | 199.5  | 187.7  |
| 32.5° | 103.2  | 125.1  | 148.8  | 125.1  | 103.2  |
| 35°   | 55.8   | 72.7   | 94.7   | 71.0   | 55.8   |
| 37.5° | 37.2   | 42.3   | 62.6   | 42.3   | 37.2   |
| 40°   | 23.7   | 28.7   | 38.9   | 28.7   | 23.7   |
| 42.5° | 13.5   | 18.6   | 22.0   | 18.6   | 13.5   |
| 45°   | 8.5    | 10.1   | 15.2   | 11.8   | 8.5    |
| 47.5° | 3.4    | 5.1    | 10.1   | 5.1    | 5.1    |
| 50°   | 3.4    | 3.4    | 6.8    | 3.4    | 3.4    |
| 52.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 55°   | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 57.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 60°   | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 62.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 65°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 67.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 70°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 72.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 75°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 77.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 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)