

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: P1309437

Luminaire Tested: LDSQA3D17R409030DE010 3LSQCDR1MW

Issue Date: 1/29/2026

**Test Information**

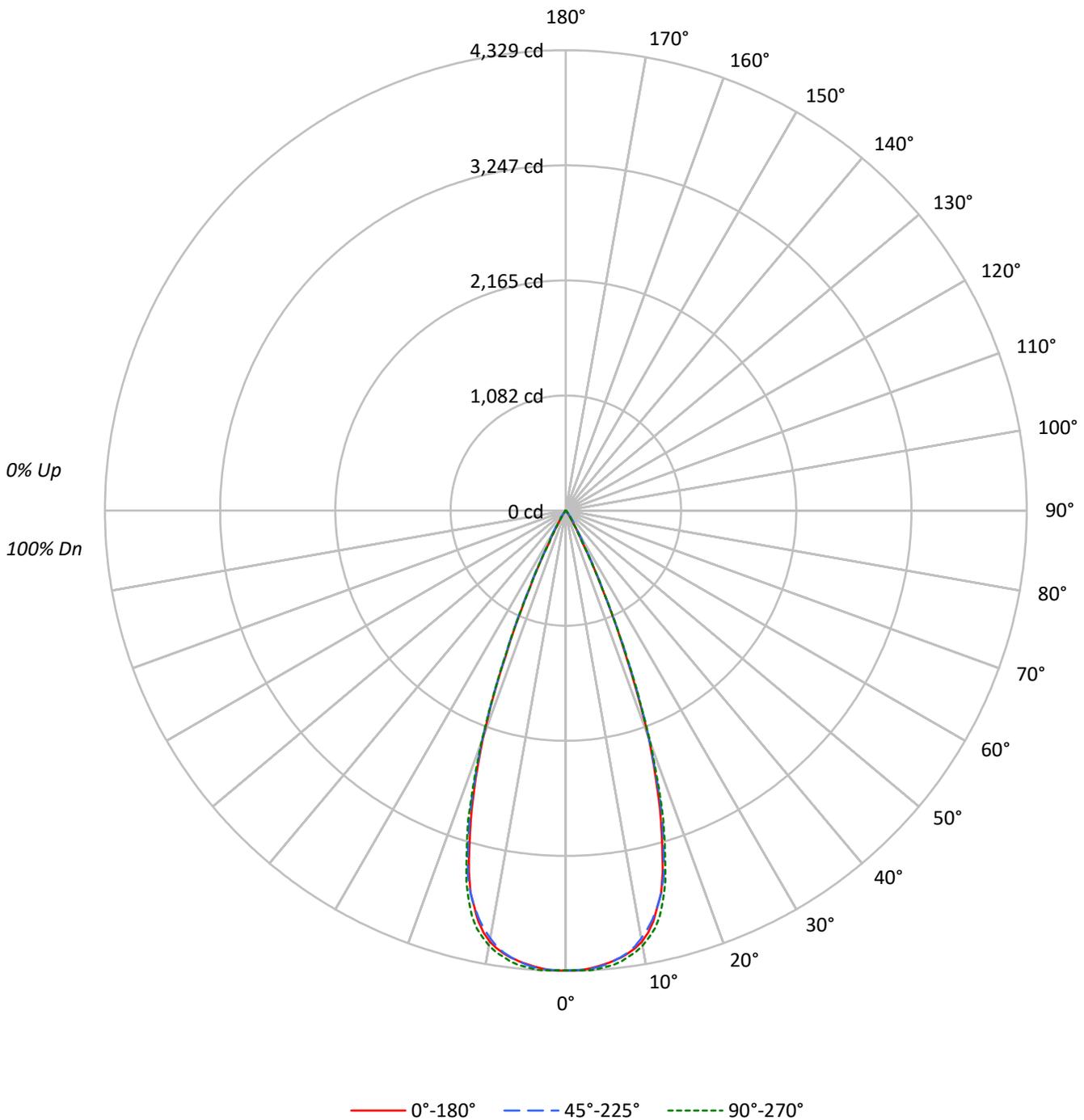
Test Method: LM-79-2019  
Report Number: P1309437  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R409030DE010 3LSQCDR1MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , 3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1830.1 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.6  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.2  
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   | 115 | 112 | 110 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 98  | 98  | 98  | 98  | 98  | 96  |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 96  | 95  | 94  | 94  | 94  | 94  | 92  |
| 3   | 107 | 102 | 98  | 95  | 105 | 100 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 93  | 91  | 90  | 90  | 90  | 90  | 88  |
| 4   | 103 | 97  | 93  | 90  | 101 | 96  | 92  | 89  | 94  | 91  | 88  | 92  | 89  | 87  | 91  | 88  | 86  | 86  | 86  | 86  | 85  |
| 5   | 99  | 93  | 89  | 85  | 98  | 92  | 88  | 85  | 91  | 87  | 84  | 89  | 86  | 84  | 88  | 85  | 83  | 83  | 83  | 83  | 82  |
| 6   | 96  | 89  | 85  | 82  | 95  | 89  | 84  | 81  | 87  | 84  | 81  | 86  | 83  | 80  | 85  | 82  | 80  | 80  | 80  | 80  | 79  |
| 7   | 93  | 86  | 81  | 78  | 92  | 85  | 81  | 78  | 84  | 80  | 78  | 83  | 80  | 77  | 82  | 79  | 77  | 77  | 77  | 77  | 76  |
| 8   | 90  | 83  | 78  | 75  | 89  | 82  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 74  | 80  | 76  | 74  | 74  | 74  | 74  | 73  |
| 9   | 87  | 80  | 75  | 72  | 86  | 79  | 75  | 72  | 79  | 75  | 72  | 78  | 74  | 72  | 77  | 74  | 72  | 72  | 72  | 72  | 71  |
| 10  | 84  | 77  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 75  | 71  | 69  | 69  | 69  | 69  | 68  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 744673 | 744673 | 744673 |
| 5°  | 739738 | 740845 | 744856 |
| 10° | 719699 | 714313 | 726239 |
| 15° | 627074 | 633511 | 643370 |
| 20° | 417703 | 419811 | 423825 |
| 25° | 151869 | 156506 | 152591 |
| 30° | 32236  | 43253  | 32236  |
| 35° | 11353  | 19216  | 10828  |
| 40° | 4047   | 6070   | 4047   |
| 45° | 950    | 2509   | 950    |
| 50° | 697    | 1045   | 697    |
| 55° | 781    | 781    | 781    |
| 60° | 896    | 896    | 896    |
| 65° | 530    | 1060   | 530    |
| 70° | 655    | 655    | 655    |
| 75° | 865    | 865    | 865    |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 2509 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 404.0  | 22.1      |
| 10°-20°   | 941.6  | 51.4      |
| 20°-30°   | 423.8  | 23.2      |
| 30°-40°   | 48.2   | 2.6       |
| 40°-50°   | 6.9    | 0.4       |
| 50°-60°   | 2.4    | 0.1       |
| 60°-70°   | 2.0    | 0.1       |
| 70°-80°   | 1.2    | 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°    | 1769.4 | 96.7      |
| 0°-40°    | 1817.6 | 99.3      |
| 0°-60°    | 1826.9 | 99.8      |
| 0°-90°    | 1830.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1830.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4324 | 4324  | 4324 | 4324  | 4324 |      |
| 5°  | 4279 | 4274  | 4285 | 4305  | 4308 | 404  |
| 15° | 3517 | 3526  | 3553 | 3581  | 3608 | 934  |
| 25° | 799  | 804   | 824  | 824   | 803  | 414  |
| 35° | 54   | 60    | 91   | 58    | 52   | 40   |
| 45° | 4    | 6     | 10   | 6     | 4    | 5    |
| 55° | 3    | 3     | 3    | 3     | 3    | 2    |
| 65° | 1    | 3     | 3    | 3     | 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°    | 4323.9 | 4323.9 | 4323.9 | 4323.9 | 4323.9 |
| 1°    | 4326.5 | 4322.6 | 4321.3 | 4329.1 | 4322.6 |
| 2°    | 4322.6 | 4320.1 | 4321.3 | 4329.1 | 4323.9 |
| 3°    | 4311.0 | 4312.3 | 4316.2 | 4330.3 | 4329.1 |
| 4°    | 4296.9 | 4295.6 | 4303.3 | 4321.3 | 4321.3 |
| 5°    | 4278.9 | 4273.7 | 4285.3 | 4304.6 | 4308.5 |
| 6°    | 4258.3 | 4251.8 | 4260.9 | 4285.3 | 4294.3 |
| 7°    | 4235.1 | 4222.2 | 4230.0 | 4259.6 | 4271.2 |
| 8°    | 4204.2 | 4187.5 | 4196.5 | 4226.1 | 4235.1 |
| 9°    | 4165.6 | 4139.9 | 4147.6 | 4183.6 | 4201.7 |
| 10°   | 4115.4 | 4083.3 | 4084.6 | 4124.4 | 4152.8 |
| 11°   | 4044.7 | 4008.6 | 4009.9 | 4060.1 | 4089.7 |
| 12°   | 3950.7 | 3918.5 | 3925.0 | 3971.3 | 4018.9 |
| 13°   | 3823.3 | 3814.3 | 3822.0 | 3872.2 | 3916.0 |
| 14°   | 3699.8 | 3690.8 | 3704.9 | 3751.3 | 3771.8 |
| 15°   | 3517.0 | 3526.0 | 3553.1 | 3581.4 | 3608.4 |
| 17.5° | 2937.9 | 2972.7 | 3004.9 | 3024.2 | 3047.3 |
| 20°   | 2279.1 | 2239.2 | 2290.6 | 2267.5 | 2312.5 |
| 22.5° | 1470.9 | 1500.5 | 1513.4 | 1500.5 | 1505.6 |
| 25°   | 799.2  | 804.3  | 823.6  | 823.6  | 803.0  |
| 27.5° | 339.7  | 366.8  | 391.2  | 382.2  | 339.7  |
| 30°   | 162.1  | 186.6  | 217.5  | 187.9  | 162.1  |
| 32.5° | 91.4   | 108.1  | 140.3  | 105.5  | 88.8   |
| 35°   | 54.0   | 60.5   | 91.4   | 57.9   | 51.5   |
| 37.5° | 32.2   | 33.5   | 50.2   | 34.7   | 30.9   |
| 40°   | 18.0   | 21.9   | 27.0   | 21.9   | 18.0   |
| 42.5° | 9.0    | 12.9   | 16.7   | 12.9   | 9.0    |
| 45°   | 3.9    | 6.4    | 10.3   | 6.4    | 3.9    |
| 47.5° | 3.9    | 3.9    | 6.4    | 3.9    | 3.9    |
| 50°   | 2.6    | 2.6    | 3.9    | 2.6    | 2.6    |
| 52.5° | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 55°   | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 57.5° | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 60°   | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 62.5° | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 65°   | 1.3    | 2.6    | 2.6    | 2.6    | 1.3    |
| 67.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 70°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 72.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 75°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 77.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 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)