

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: P1318322

Luminaire Tested: LDSQA3D13R209830DE010 3LSQCDR1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318322  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-34)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R209830DE010 3LSQCDR1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , 3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

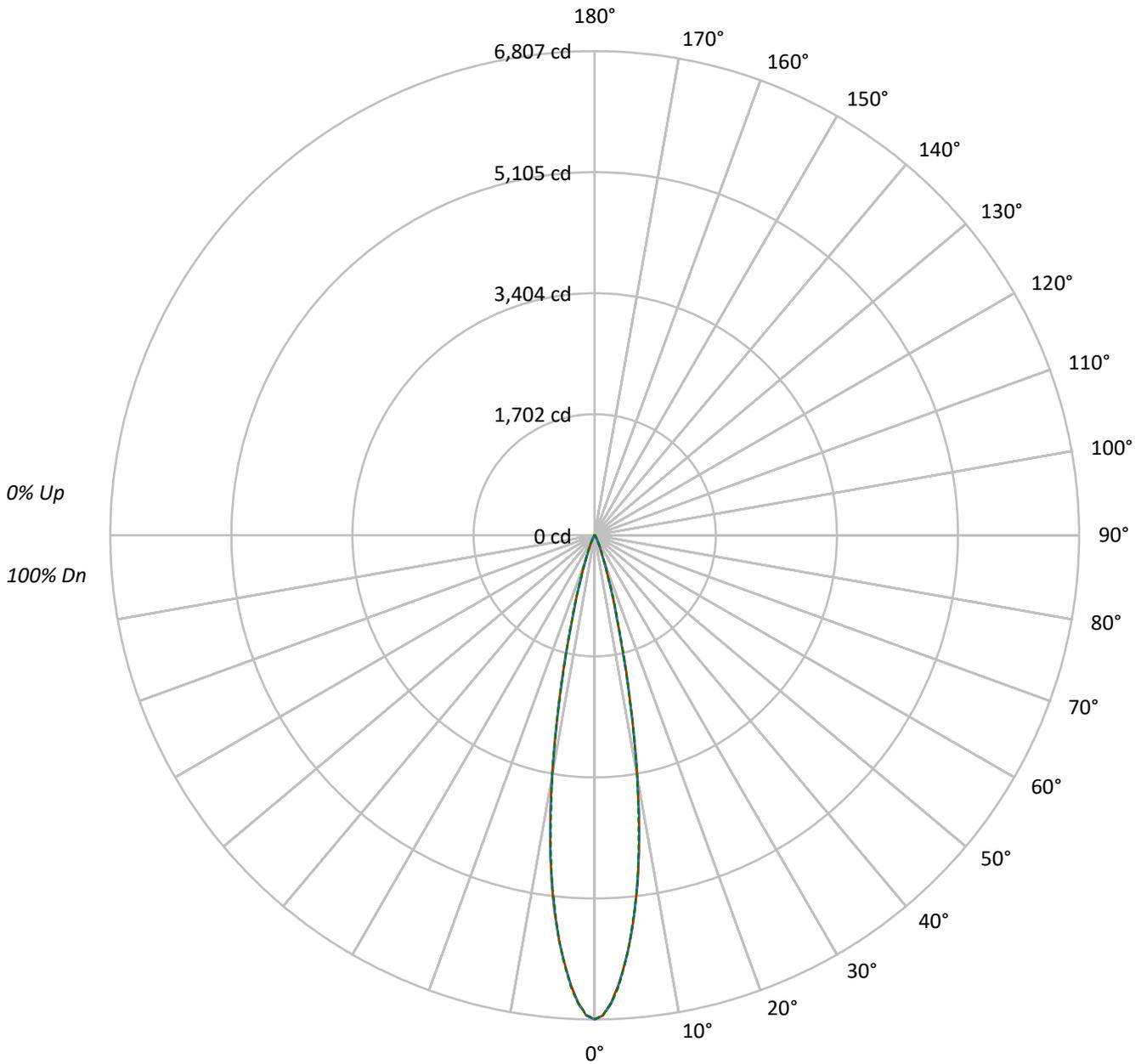
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 938.0 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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



— 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 | 110 | 113 | 111 | 110 | 109 | 108 | 106 | 105 | 104 | 103 | 102 | 101 | 100 | 99  | 99  | 98  | 98  | 98  |
| 2   | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 103 | 104 | 102 | 101 | 102 | 100 | 99  | 99  | 98  | 97  | 99  | 98  | 97  | 95  |
| 3   | 109 | 105 | 102 | 100 | 108 | 104 | 101 | 99  | 102 | 99  | 97  | 99  | 97  | 96  | 97  | 96  | 94  | 97  | 96  | 94  | 93  |
| 4   | 107 | 102 | 98  | 96  | 105 | 101 | 98  | 95  | 99  | 96  | 94  | 97  | 95  | 93  | 96  | 94  | 92  | 96  | 94  | 92  | 91  |
| 5   | 104 | 99  | 95  | 93  | 103 | 98  | 95  | 92  | 97  | 94  | 92  | 95  | 93  | 91  | 94  | 92  | 90  | 94  | 92  | 90  | 89  |
| 6   | 102 | 96  | 93  | 90  | 101 | 96  | 92  | 90  | 94  | 92  | 89  | 93  | 91  | 89  | 92  | 90  | 88  | 92  | 90  | 88  | 87  |
| 7   | 100 | 94  | 90  | 88  | 99  | 94  | 90  | 88  | 92  | 90  | 87  | 91  | 89  | 87  | 91  | 88  | 87  | 91  | 88  | 87  | 86  |
| 8   | 97  | 92  | 88  | 86  | 97  | 91  | 88  | 86  | 91  | 88  | 86  | 90  | 87  | 85  | 89  | 87  | 85  | 89  | 87  | 85  | 84  |
| 9   | 96  | 90  | 87  | 84  | 95  | 90  | 86  | 84  | 89  | 86  | 84  | 88  | 86  | 84  | 88  | 85  | 83  | 88  | 85  | 83  | 83  |
| 10  | 94  | 88  | 85  | 83  | 93  | 88  | 85  | 82  | 87  | 84  | 82  | 87  | 84  | 82  | 86  | 84  | 82  | 86  | 84  | 82  | 81  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1172268 | 1172268 | 1172268 |
| 5°  | 988047  | 988410  | 987908  |
| 10° | 602092  | 599294  | 600693  |
| 15° | 212085  | 212995  | 219592  |
| 20° | 66639   | 68508   | 67042   |
| 25° | 24970   | 27307   | 25654   |
| 30° | 9665    | 13702   | 10102   |
| 35° | 3658    | 6097    | 3974    |
| 40° | 1956    | 2608    | 1956    |
| 45° | 706     | 1242    | 877     |
| 50° | 402     | 589     | 402     |
| 55° | 450     | 450     | 450     |
| 60° | 241     | 241     | 241     |
| 65° | 285     | 285     | 285     |
| 70° | 352     | 352     | 352     |
| 75° | 0       | 0       | 466     |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1242 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 472.5  | 50.4      |
| 10°-20°   | 370.5  | 39.5      |
| 20°-30°   | 72.8   | 7.8       |
| 30°-40°   | 16.3   | 1.7       |
| 40°-50°   | 3.7    | 0.4       |
| 50°-60°   | 1.2    | 0.1       |
| 60°-70°   | 0.7    | 0.1       |
| 70°-80°   | 0.3    | 0.0       |
| 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°    | 915.8  | 97.6      |
| 0°-40°    | 932.1  | 99.4      |
| 0°-60°    | 937.0  | 99.9      |
| 0°-90°    | 938.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 938.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6807 | 6807  | 6807 | 6807  | 6807 |      |
| 5°  | 5715 | 5720  | 5717 | 5737  | 5714 | 473  |
| 15° | 1190 | 1195  | 1195 | 1221  | 1232 | 370  |
| 25° | 131  | 140   | 144  | 142   | 135  | 69   |
| 35° | 17   | 21    | 29   | 21    | 19   | 13   |
| 45° | 3    | 4     | 5    | 4     | 4    | 3    |
| 55° | 2    | 2     | 2    | 2     | 2    | 1    |
| 65° | 1    | 1     | 1    | 1     | 1    | 1    |
| 75° | 0    | 0     | 0    | 0     | 1    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 6806.7 | 6806.7 | 6806.7 | 6806.7 | 6806.7 |
| 1°    | 6751.5 | 6737.0 | 6753.7 | 6740.6 | 6743.5 |
| 2°    | 6576.6 | 6568.6 | 6590.4 | 6576.6 | 6583.9 |
| 3°    | 6333.5 | 6323.3 | 6339.3 | 6340.0 | 6360.3 |
| 4°    | 6043.2 | 6023.6 | 6047.6 | 6048.3 | 6051.9 |
| 5°    | 5715.2 | 5720.2 | 5717.3 | 5736.9 | 5714.4 |
| 6°    | 5346.5 | 5363.2 | 5341.4 | 5352.3 | 5321.1 |
| 7°    | 4934.3 | 4913.2 | 4902.3 | 4906.0 | 4927.7 |
| 8°    | 4479.2 | 4464.7 | 4480.7 | 4458.2 | 4443.0 |
| 9°    | 3973.4 | 3948.0 | 3965.4 | 3943.6 | 3921.9 |
| 10°   | 3442.9 | 3431.3 | 3426.9 | 3402.2 | 3434.9 |
| 11°   | 2910.9 | 2876.1 | 2893.5 | 2881.2 | 2916.7 |
| 12°   | 2413.1 | 2416.0 | 2381.9 | 2392.8 | 2397.1 |
| 13°   | 1963.8 | 1917.4 | 1923.2 | 1953.0 | 1958.0 |
| 14°   | 1523.3 | 1529.9 | 1532.0 | 1553.1 | 1565.4 |
| 15°   | 1189.5 | 1194.6 | 1194.6 | 1220.7 | 1231.6 |
| 17.5° | 637.9  | 637.9  | 651.7  | 654.6  | 656.1  |
| 20°   | 363.6  | 365.8  | 373.8  | 373.0  | 365.8  |
| 22.5° | 217.7  | 222.1  | 226.4  | 222.1  | 217.7  |
| 25°   | 131.4  | 140.1  | 143.7  | 141.5  | 135.0  |
| 27.5° | 78.4   | 87.8   | 98.0   | 90.0   | 77.7   |
| 30°   | 48.6   | 53.7   | 68.9   | 55.2   | 50.8   |
| 32.5° | 26.9   | 34.8   | 47.2   | 36.3   | 27.6   |
| 35°   | 17.4   | 21.0   | 29.0   | 21.0   | 18.9   |
| 37.5° | 12.3   | 14.5   | 18.1   | 15.2   | 13.1   |
| 40°   | 8.7    | 10.2   | 11.6   | 10.9   | 8.7    |
| 42.5° | 5.8    | 7.3    | 8.0    | 7.3    | 5.8    |
| 45°   | 2.9    | 4.4    | 5.1    | 4.4    | 3.6    |
| 47.5° | 1.5    | 2.2    | 3.6    | 2.2    | 1.5    |
| 50°   | 1.5    | 1.5    | 2.2    | 1.5    | 1.5    |
| 52.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 55°   | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 57.5° | 1.5    | 1.5    | 0.7    | 1.5    | 0.7    |
| 60°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 62.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 65°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 67.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 70°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 72.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    |
| 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)