

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: P1309358

Luminaire Tested: LDSQA3D17R159030DE010 3LSQPHR1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309358  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R159030DE010 3LSQPHR1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , 3LSQPHR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

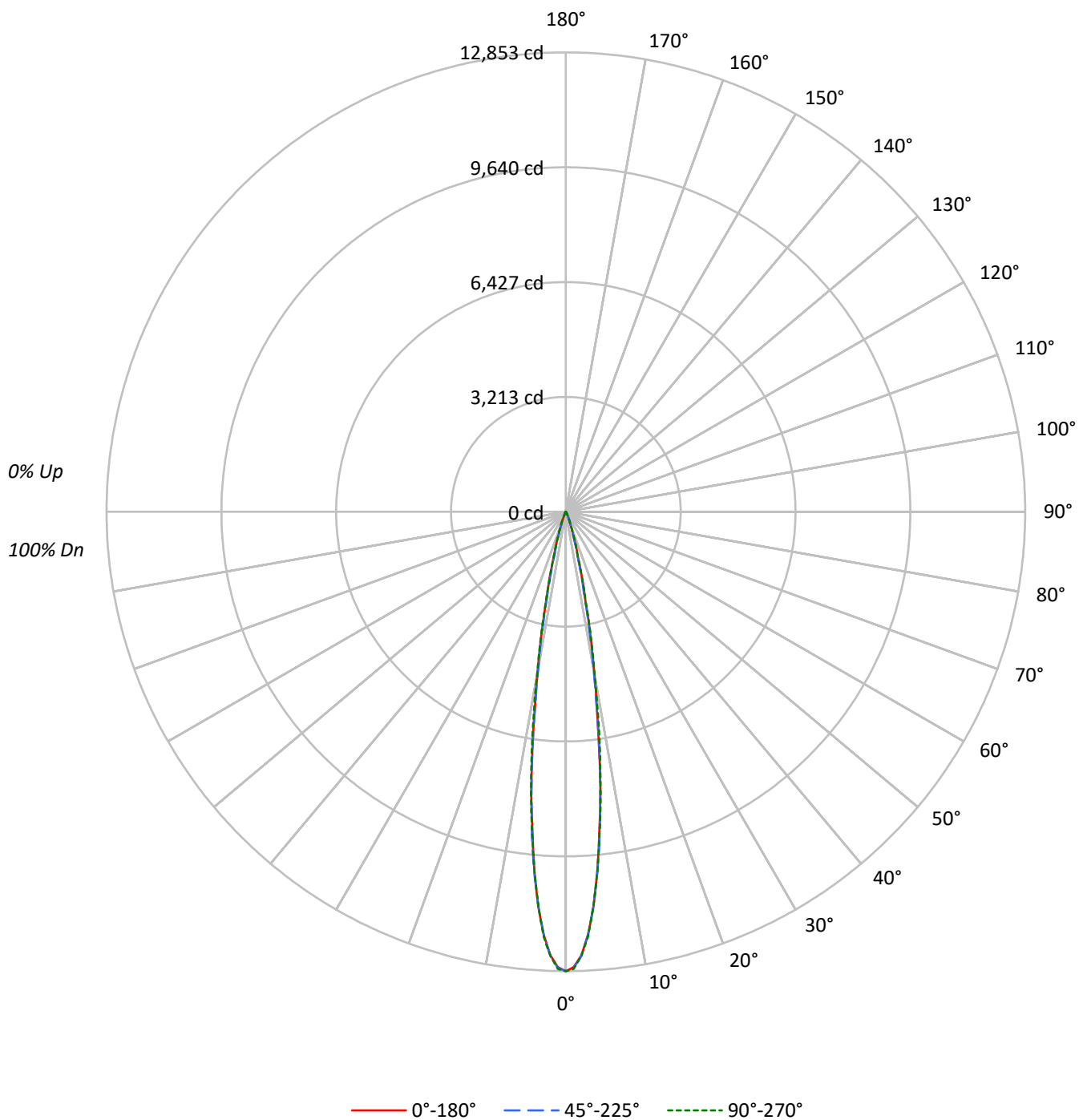
Lumens per Lamp: N/A  
Luminaire Lumens: 1287.0 lumens  
Efficiency: N/A  
Efficacy: 60.7 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.29 / 0.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
Input Voltage (V): NR  
Input Current (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



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |     | 10  |
| 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 | 102 | 100 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 104 | 103 | 101 | 100 | 100 | 100 | 100 | 98  |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 104 | 102 | 102 | 101 | 100 | 100 | 99  | 98  | 98  | 98  | 97  |
| 3   | 110 | 107 | 104 | 101 | 109 | 105 | 103 | 100 | 103 | 101 | 99  | 101 | 99  | 97  | 99  | 97  | 96  | 96  | 96  | 95  |
| 4   | 108 | 104 | 100 | 98  | 106 | 103 | 100 | 98  | 101 | 98  | 96  | 99  | 97  | 95  | 97  | 96  | 94  | 94  | 94  | 93  |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  | 99  | 96  | 94  | 97  | 95  | 94  | 96  | 94  | 93  | 93  | 93  | 92  |
| 6   | 104 | 99  | 96  | 93  | 103 | 98  | 95  | 93  | 97  | 94  | 92  | 96  | 94  | 92  | 95  | 93  | 91  | 91  | 91  | 91  |
| 7   | 102 | 97  | 94  | 91  | 101 | 96  | 93  | 91  | 95  | 93  | 91  | 94  | 92  | 90  | 94  | 92  | 90  | 90  | 90  | 89  |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  | 94  | 91  | 89  | 93  | 91  | 89  | 92  | 90  | 89  | 89  | 89  | 88  |
| 9   | 98  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 90  | 88  | 92  | 89  | 88  | 91  | 89  | 87  | 87  | 87  | 87  |
| 10  | 97  | 92  | 89  | 87  | 96  | 92  | 89  | 87  | 91  | 88  | 87  | 90  | 88  | 86  | 90  | 88  | 86  | 86  | 86  | 86  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 2213612 | 2213612 | 2213612 |
| 5°  | 1746110 | 1750778 | 1744554 |
| 10° | 798849  | 777916  | 815725  |
| 15° | 237529  | 212050  | 232697  |
| 20° | 70543   | 68417   | 74080   |
| 25° | 20048   | 25920   | 23240   |
| 30° | 7159    | 7676    | 6921    |
| 35° | 2712    | 2439    | 2439    |
| 40° | 1147    | 585     | 877     |
| 45° | 633     | 317     | 633     |
| 50° | 348     | 0       | 348     |
| 55° | 390     | 0       | 390     |
| 60° | 0       | 0       | 0       |
| 65° | 0       | 0       | 0       |
| 70° | 0       | 0       | 0       |
| 75° | 0       | 0       | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 663 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 776.6  | 60.3      |
| 10°-20°   | 431.1  | 33.5      |
| 20°-30°   | 68.6   | 5.3       |
| 30°-40°   | 9.0    | 0.7       |
| 40°-50°   | 1.4    | 0.1       |
| 50°-60°   | 0.3    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 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°    | 1276.4 | 99.2      |
| 0°-40°    | 1285.4 | 99.9      |
| 0°-60°    | 1287.0 | 100.0     |
| 0°-90°    | 1287.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1287.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 12853 | 12853 | 12853 | 12853 | 12853 |      |
| 5°  | 10100 | 10185 | 10127 | 10084 | 10091 | 775  |
| 15° | 1332  | 1315  | 1189  | 1264  | 1305  | 439  |
| 25° | 106   | 118   | 136   | 136   | 122   | 64   |
| 35° | 13    | 13    | 12    | 13    | 12    | 10   |
| 45° | 3     | 2     | 1     | 1     | 3     | 2    |
| 55° | 1     | 0     | 0     | 0     | 1     | 1    |
| 65° | 0     | 0     | 0     | 0     | 0     | 0    |
| 75° | 0     | 0     | 0     | 0     | 0     | 0    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12853.2 | 12853.2 | 12853.2 | 12853.2 | 12853.2 | 12853.2 | 12853.2 | 12853.2 | 12853.2 | 12853.2 | 12853.2 |
| 1°    | 12742.5 | 12756.7 | 12774.7 | 12758.0 | 12742.5 | 12756.7 | 12737.4 | 12740.0 | 12724.5 | 12758.0 | 12795.3 |
| 2°    | 12418.2 | 12436.2 | 12425.9 | 12402.7 | 12438.8 | 12441.3 | 12401.4 | 12382.1 | 12379.6 | 12413.0 | 12425.9 |
| 3°    | 11844.1 | 11885.3 | 11886.6 | 11878.9 | 11867.3 | 11844.1 | 11802.9 | 11830.0 | 11792.6 | 11769.5 | 11900.7 |
| 4°    | 11080.8 | 11116.9 | 11159.4 | 11131.0 | 11046.1 | 11053.8 | 11080.8 | 10989.5 | 10994.6 | 11047.4 | 11051.2 |
| 5°    | 10100.1 | 10209.5 | 10214.6 | 10174.7 | 10107.8 | 10127.1 | 10107.8 | 10082.0 | 10091.1 | 10124.5 | 10091.1 |
| 6°    | 8945.5  | 9069.1  | 8977.7  | 9065.2  | 9045.9  | 9070.4  | 9076.8  | 9049.8  | 9069.1  | 9048.5  | 9042.0  |
| 7°    | 7948.0  | 7854.0  | 7866.9  | 7830.9  | 7869.5  | 7895.2  | 7910.7  | 7864.3  | 7901.7  | 7960.9  | 7977.6  |
| 8°    | 6711.1  | 6684.0  | 6657.0  | 6721.4  | 6703.3  | 6734.2  | 6753.5  | 6805.0  | 6802.4  | 6820.5  | 6879.7  |
| 9°    | 5533.3  | 5573.2  | 5597.7  | 5541.1  | 5590.0  | 5494.7  | 5528.2  | 5665.9  | 5629.9  | 5665.9  | 5771.5  |
| 10°   | 4568.0  | 4600.2  | 4564.1  | 4562.9  | 4511.4  | 4448.3  | 4444.4  | 4495.9  | 4604.0  | 4689.0  | 4664.5  |
| 12.5° | 2520.2  | 2548.5  | 2552.4  | 2549.8  | 2457.1  | 2352.9  | 2372.2  | 2413.4  | 2480.3  | 2508.6  | 2554.9  |
| 15°   | 1332.2  | 1330.9  | 1345.0  | 1305.1  | 1256.2  | 1189.3  | 1194.5  | 1251.1  | 1301.3  | 1314.2  | 1305.1  |
| 17.5° | 683.5   | 686.0   | 696.3   | 686.0   | 634.6   | 641.0   | 655.1   | 661.6   | 691.2   | 702.8   | 696.3   |
| 20°   | 384.9   | 386.1   | 384.9   | 388.7   | 368.1   | 373.3   | 391.3   | 392.6   | 399.0   | 405.4   | 404.2   |
| 22.5° | 220.1   | 221.4   | 229.1   | 226.5   | 221.4   | 227.8   | 231.7   | 238.1   | 240.7   | 238.1   | 245.8   |
| 25°   | 105.5   | 106.8   | 106.8   | 122.3   | 130.0   | 136.4   | 139.0   | 136.4   | 133.9   | 123.6   | 122.3   |
| 27.5° | 60.5    | 60.5    | 63.1    | 64.4    | 66.9    | 78.5    | 77.2    | 64.4    | 54.1    | 54.1    | 55.3    |
| 30°   | 36.0    | 34.8    | 34.8    | 36.0    | 37.3    | 38.6    | 36.0    | 34.8    | 34.8    | 36.0    | 34.8    |
| 32.5° | 21.9    | 21.9    | 21.9    | 20.6    | 20.6    | 19.3    | 19.3    | 21.9    | 21.9    | 21.9    | 21.9    |
| 35°   | 12.9    | 12.9    | 12.9    | 12.9    | 11.6    | 11.6    | 11.6    | 12.9    | 12.9    | 11.6    | 11.6    |
| 37.5° | 7.7     | 7.7     | 7.7     | 6.4     | 6.4     | 5.1     | 6.4     | 6.4     | 6.4     | 6.4     | 6.4     |
| 40°   | 5.1     | 5.1     | 3.9     | 3.9     | 2.6     | 2.6     | 2.6     | 3.9     | 3.9     | 3.9     | 3.9     |
| 42.5° | 3.9     | 3.9     | 2.6     | 2.6     | 1.3     | 1.3     | 1.3     | 2.6     | 2.6     | 2.6     | 2.6     |
| 45°   | 2.6     | 2.6     | 2.6     | 1.3     | 1.3     | 1.3     | 1.3     | 1.3     | 1.3     | 2.6     | 2.6     |
| 47.5° | 2.6     | 2.6     | 1.3     | 1.3     | 0.0     | 0.0     | 0.0     | 1.3     | 1.3     | 1.3     | 1.3     |
| 50°   | 1.3     | 1.3     | 1.3     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 1.3     | 1.3     | 1.3     |
| 52.5° | 1.3     | 1.3     | 1.3     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 1.3     | 1.3     | 1.3     |
| 55°   | 1.3     | 1.3     | 1.3     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 1.3     | 1.3     |
| 57.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 60°   | 0.0     | 1.3     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 62.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 65°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 67.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 70°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 72.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 75°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 77.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 80°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 82.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)