

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: P1319186

Luminaire Tested: LDSQA3D13R159835DE010 3LSQPHR1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319186  
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: LDSQA3D13R159835DE010 3LSQPHR1MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , 3LSQPHR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

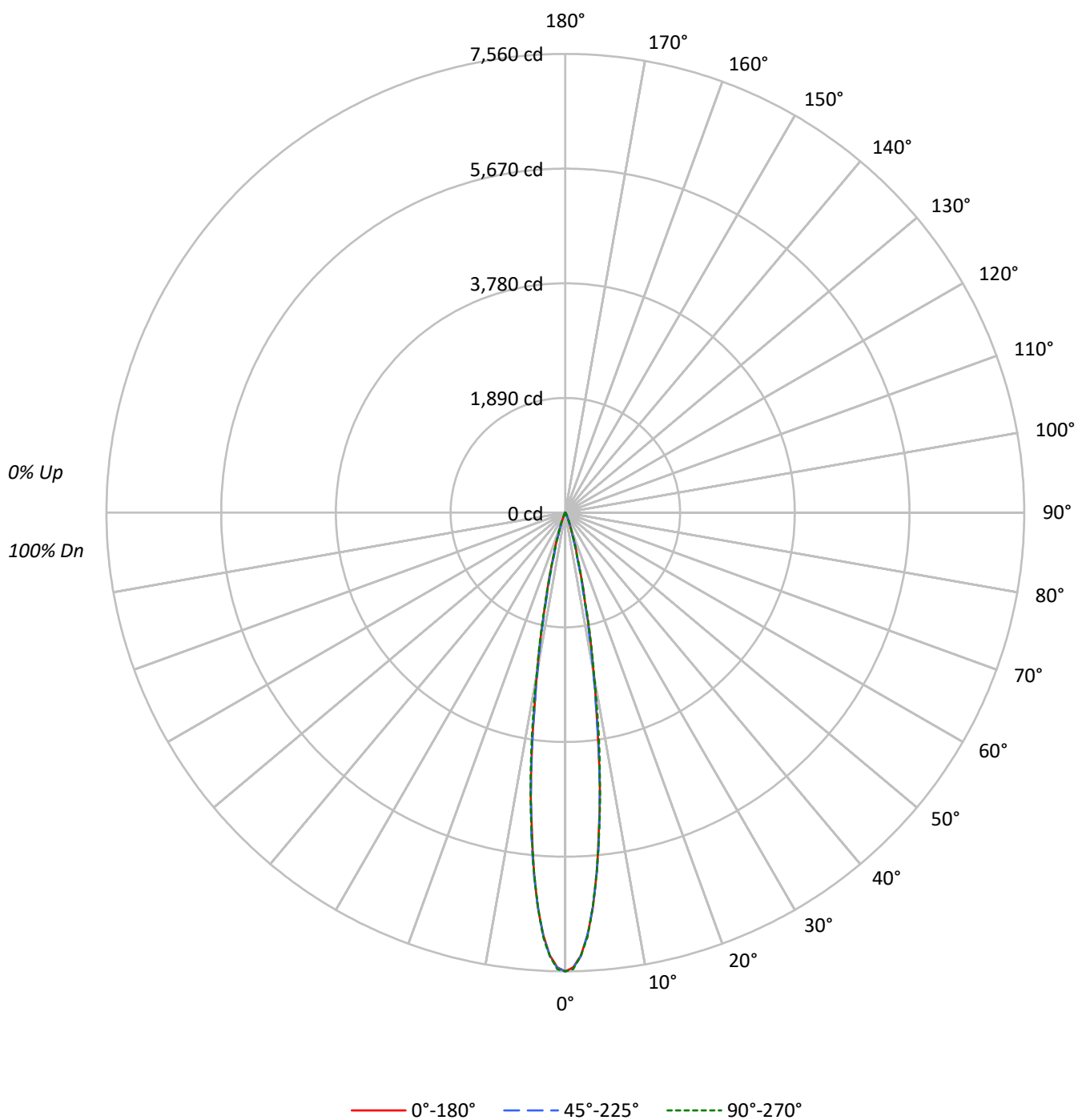
Lumens per Lamp: N/A  
Luminaire Lumens: 757.0 lumens  
Efficiency: N/A  
Efficacy: 52.2 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.29 / 0.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 |  | 104 | 104 | 103 |  | 101 |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 |  | 102 | 101 | 100 |  | 100 |
| 3   | 110 | 107 | 104 | 101 | 109 | 105 | 103 | 100 | 103 | 101 | 99  |  | 101 | 99  | 97  |  | 99  |
| 4   | 108 | 104 | 100 | 98  | 106 | 103 | 100 | 98  | 101 | 98  | 96  |  | 99  | 97  | 95  |  | 97  |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  | 99  | 96  | 94  |  | 97  | 95  | 94  |  | 96  |
| 6   | 104 | 99  | 96  | 93  | 103 | 98  | 95  | 93  | 97  | 94  | 92  |  | 96  | 94  | 92  |  | 95  |
| 7   | 102 | 97  | 94  | 91  | 101 | 96  | 93  | 91  | 95  | 93  | 91  |  | 94  | 92  | 90  |  | 94  |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  | 94  | 91  | 89  |  | 93  | 91  | 89  |  | 92  |
| 9   | 98  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 90  | 88  |  | 92  | 89  | 88  |  | 91  |
| 10  | 97  | 92  | 89  | 87  | 96  | 92  | 89  | 87  | 91  | 88  | 87  |  | 90  | 88  | 86  |  | 90  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1302020 | 1302020 | 1302020 |
| 5°  | 1027048 | 1029780 | 1026132 |
| 10° | 469884  | 457555  | 479799  |
| 15° | 139714  | 124719  | 136879  |
| 20° | 41494   | 40247   | 43565   |
| 25° | 11801   | 15240   | 13663   |
| 30° | 4216    | 4514    | 4057    |
| 35° | 1598    | 1430    | 1430    |
| 40° | 674     | 337     | 517     |
| 45° | 365     | 195     | 365     |
| 50° | 214     | 0       | 214     |
| 55° | 240     | 0       | 240     |
| 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: 382 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 456.8  | 60.3      |
| 10°-20°   | 253.6  | 33.5      |
| 20°-30°   | 40.4   | 5.3       |
| 30°-40°   | 5.3    | 0.7       |
| 40°-50°   | 0.8    | 0.1       |
| 50°-60°   | 0.2    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 750.7  | 99.2      |
| 0°-40°    | 756.0  | 99.9      |
| 0°-60°    | 757.0  | 100.0     |
| 0°-90°    | 757.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 757.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 7560 | 7560  | 7560 | 7560  | 7560 |      |
| 5°  | 5941 | 5991  | 5957 | 5932  | 5936 | 456  |
| 15° | 784  | 774   | 700  | 743   | 768  | 258  |
| 25° | 62   | 70    | 80   | 80    | 72   | 38   |
| 35° | 8    | 8     | 7    | 8     | 7    | 6    |
| 45° | 2    | 1     | 1    | 1     | 2    | 1    |
| 55° | 1    | 0     | 0    | 0     | 1    | 0    |
| 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    | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7560.1 | 7560.1 | 7560.1 | 7560.1 | 7560.1 | 7560.1 | 7560.1 | 7560.1 | 7560.1 | 7560.1 | 7560.1 |
| 1°    | 7495.0 | 7503.3 | 7513.9 | 7504.1 | 7495.0 | 7503.3 | 7492.0 | 7493.5 | 7484.4 | 7504.1 | 7526.1 |
| 2°    | 7304.2 | 7314.8 | 7308.8 | 7295.2 | 7316.4 | 7317.9 | 7294.4 | 7283.0 | 7281.5 | 7301.2 | 7308.8 |
| 3°    | 6966.6 | 6990.8 | 6991.6 | 6987.0 | 6980.2 | 6966.6 | 6942.4 | 6958.3 | 6936.3 | 6922.7 | 6999.9 |
| 4°    | 6517.6 | 6538.8 | 6563.8 | 6547.2 | 6497.2 | 6501.7 | 6517.6 | 6463.9 | 6466.9 | 6498.0 | 6500.2 |
| 5°    | 5940.8 | 6005.1 | 6008.1 | 5984.7 | 5945.3 | 5956.6 | 5945.3 | 5930.2 | 5935.5 | 5955.1 | 5935.5 |
| 6°    | 5261.7 | 5334.3 | 5280.6 | 5332.1 | 5320.7 | 5335.1 | 5338.9 | 5323.0 | 5334.3 | 5322.2 | 5318.4 |
| 7°    | 4674.9 | 4619.7 | 4627.2 | 4606.0 | 4628.7 | 4643.9 | 4653.0 | 4625.7 | 4647.7 | 4682.5 | 4692.3 |
| 8°    | 3947.4 | 3931.5 | 3915.6 | 3953.4 | 3942.8 | 3961.0 | 3972.4 | 4002.6 | 4001.1 | 4011.7 | 4046.6 |
| 9°    | 3254.7 | 3278.1 | 3292.5 | 3259.2 | 3288.0 | 3231.9 | 3251.6 | 3332.6 | 3311.4 | 3332.6 | 3394.7 |
| 10°   | 2686.9 | 2705.8 | 2684.6 | 2683.8 | 2653.5 | 2616.4 | 2614.2 | 2644.5 | 2708.0 | 2758.0 | 2743.6 |
| 12.5° | 1482.3 | 1499.0 | 1501.3 | 1499.8 | 1445.3 | 1383.9 | 1395.3 | 1419.5 | 1458.9 | 1475.5 | 1502.8 |
| 15°   | 783.6  | 782.8  | 791.1  | 767.7  | 738.9  | 699.5  | 702.6  | 735.9  | 765.4  | 773.0  | 767.7  |
| 17.5° | 402.0  | 403.5  | 409.6  | 403.5  | 373.2  | 377.0  | 385.4  | 389.1  | 406.5  | 413.4  | 409.6  |
| 20°   | 226.4  | 227.1  | 226.4  | 228.6  | 216.5  | 219.6  | 230.2  | 230.9  | 234.7  | 238.5  | 237.7  |
| 22.5° | 129.5  | 130.2  | 134.8  | 133.2  | 130.2  | 134.0  | 136.3  | 140.1  | 141.6  | 140.1  | 144.6  |
| 25°   | 62.1   | 62.8   | 62.8   | 71.9   | 76.5   | 80.2   | 81.8   | 80.2   | 78.7   | 72.7   | 71.9   |
| 27.5° | 35.6   | 35.6   | 37.1   | 37.9   | 39.4   | 46.2   | 45.4   | 37.9   | 31.8   | 31.8   | 32.6   |
| 30°   | 21.2   | 20.4   | 20.4   | 21.2   | 22.0   | 22.7   | 21.2   | 20.4   | 20.4   | 21.2   | 20.4   |
| 32.5° | 12.9   | 12.9   | 12.9   | 12.1   | 12.1   | 11.4   | 11.4   | 12.9   | 12.9   | 12.9   | 12.9   |
| 35°   | 7.6    | 7.6    | 7.6    | 7.6    | 6.8    | 6.8    | 6.8    | 7.6    | 7.6    | 6.8    | 6.8    |
| 37.5° | 4.5    | 4.5    | 4.5    | 3.8    | 3.8    | 3.0    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 40°   | 3.0    | 3.0    | 2.3    | 2.3    | 1.5    | 1.5    | 1.5    | 2.3    | 2.3    | 2.3    | 2.3    |
| 42.5° | 2.3    | 2.3    | 1.5    | 1.5    | 0.8    | 0.8    | 0.8    | 1.5    | 1.5    | 1.5    | 1.5    |
| 45°   | 1.5    | 1.5    | 1.5    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 1.5    | 1.5    |
| 47.5° | 1.5    | 1.5    | 0.8    | 0.8    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    |
| 50°   | 0.8    | 0.8    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    |
| 52.5° | 0.8    | 0.8    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    |
| 55°   | 0.8    | 0.8    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    |
| 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    | 0.8    | 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)