

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: P1309032

Luminaire Tested: LDSQA3D09R159030DE010 3LSQPHR1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309032  
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: LDSQA3D09R159030DE010 3LSQPHR1MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , 3LSQPHR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

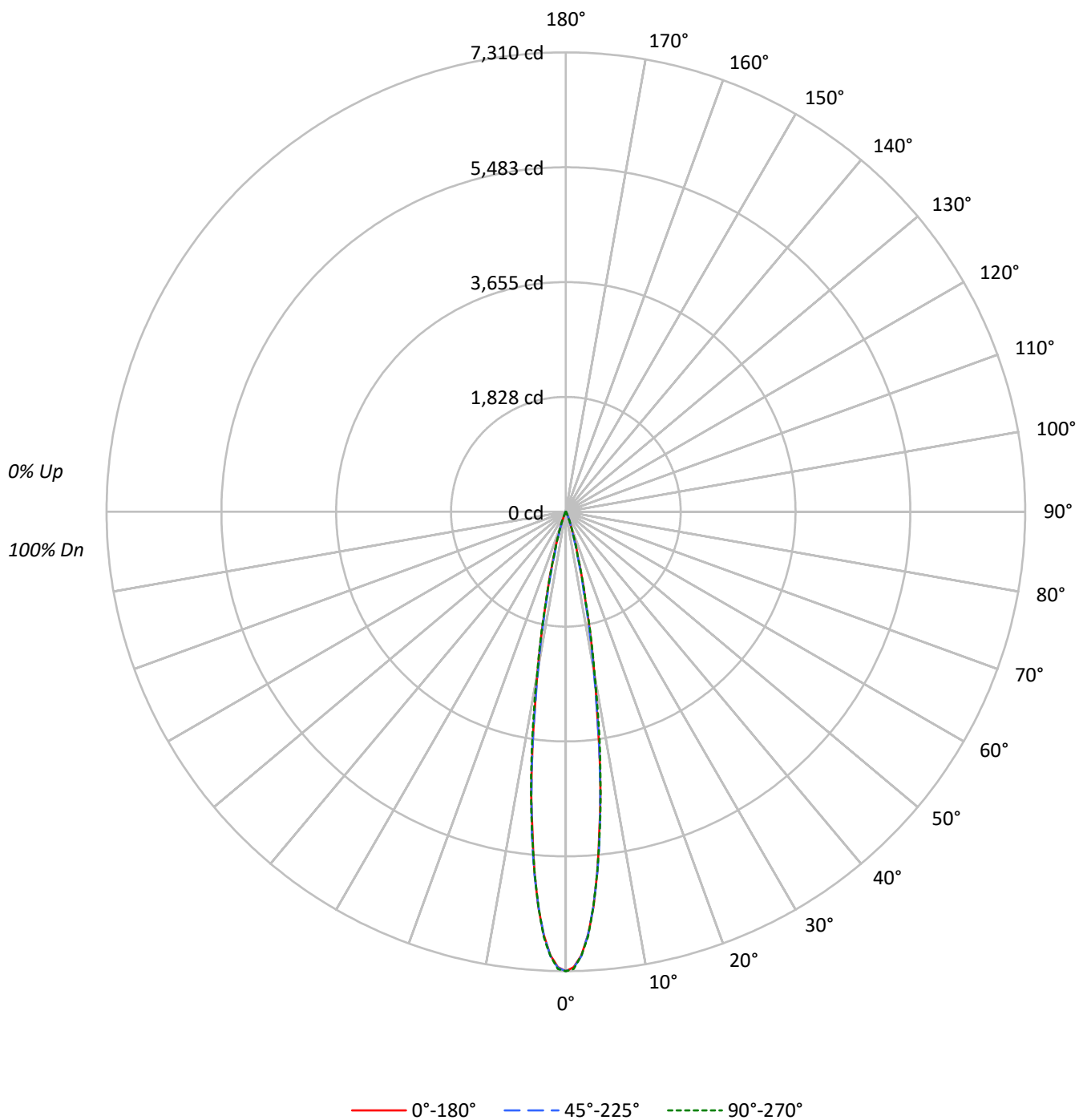
Lumens per Lamp: N/A  
Luminaire Lumens: 732.0 lumens  
Efficiency: N/A  
Efficacy: 65.9 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.29 / 0.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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°  | 1259034 | 1259034 | 1259034 |
| 5°  | 993129  | 995774  | 992230  |
| 10° | 454354  | 442445  | 463955  |
| 15° | 135096  | 120601  | 132351  |
| 20° | 40119   | 38909   | 42135   |
| 25° | 11402   | 14746   | 13207   |
| 30° | 4077    | 4375    | 3938    |
| 35° | 1535    | 1388    | 1388    |
| 40° | 652     | 337     | 495     |
| 45° | 365     | 170     | 365     |
| 50° | 188     | 0       | 188     |
| 55° | 210     | 0       | 210     |
| 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°    | 441.7  | 60.3      |
| 10°-20°   | 245.2  | 33.5      |
| 20°-30°   | 39.0   | 5.3       |
| 30°-40°   | 5.1    | 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       |
| 0°-30°    | 726.0  | 99.2      |
| 0°-40°    | 731.1  | 99.9      |
| 0°-60°    | 732.0  | 100.0     |
| 0°-90°    | 732.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 732.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 7310 | 7310  | 7310 | 7310  | 7310 |      |
| 5°  | 5745 | 5793  | 5760 | 5736  | 5739 | 441  |
| 15° | 758  | 748   | 676  | 719   | 742  | 250  |
| 25° | 60   | 67    | 78   | 77    | 70   | 37   |
| 35° | 7    | 7     | 7    | 7     | 7    | 5    |
| 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    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7310.5 | 7310.5 | 7310.5 | 7310.5 | 7310.5 | 7310.5 | 7310.5 | 7310.5 | 7310.5 | 7310.5 | 7310.5 |
| 1°    | 7247.5 | 7255.5 | 7265.8 | 7256.3 | 7247.5 | 7255.5 | 7244.6 | 7246.0 | 7237.2 | 7256.3 | 7277.5 |
| 2°    | 7063.0 | 7073.3 | 7067.4 | 7054.2 | 7074.7 | 7076.2 | 7053.5 | 7042.5 | 7041.1 | 7060.1 | 7067.4 |
| 3°    | 6736.5 | 6759.9 | 6760.7 | 6756.3 | 6749.7 | 6736.5 | 6713.1 | 6728.5 | 6707.2 | 6694.1 | 6768.7 |
| 4°    | 6302.4 | 6322.9 | 6347.1 | 6330.9 | 6282.6 | 6287.0 | 6302.4 | 6250.4 | 6253.3 | 6283.4 | 6285.6 |
| 5°    | 5744.6 | 5806.8 | 5809.7 | 5787.0 | 5748.9 | 5759.9 | 5748.9 | 5734.3 | 5739.4 | 5758.5 | 5739.4 |
| 6°    | 5087.9 | 5158.2 | 5106.2 | 5156.0 | 5145.0 | 5158.9 | 5162.6 | 5147.2 | 5158.2 | 5146.5 | 5142.8 |
| 7°    | 4520.5 | 4467.1 | 4474.4 | 4453.9 | 4475.9 | 4490.5 | 4499.3 | 4473.0 | 4494.2 | 4527.9 | 4537.4 |
| 8°    | 3817.0 | 3801.6 | 3786.3 | 3822.9 | 3812.6 | 3830.2 | 3841.2 | 3870.5 | 3869.0 | 3879.2 | 3912.9 |
| 9°    | 3147.2 | 3169.9 | 3183.8 | 3151.6 | 3179.4 | 3125.2 | 3144.2 | 3222.6 | 3202.1 | 3222.6 | 3282.6 |
| 10°   | 2598.1 | 2616.4 | 2595.9 | 2595.2 | 2565.9 | 2530.0 | 2527.8 | 2557.1 | 2618.6 | 2666.9 | 2653.0 |
| 12.5° | 1433.4 | 1449.5 | 1451.7 | 1450.2 | 1397.5 | 1338.2 | 1349.2 | 1372.6 | 1410.7 | 1426.8 | 1453.2 |
| 15°   | 757.7  | 757.0  | 765.0  | 742.3  | 714.5  | 676.4  | 679.4  | 711.6  | 740.1  | 747.4  | 742.3  |
| 17.5° | 388.7  | 390.2  | 396.1  | 390.2  | 360.9  | 364.6  | 372.6  | 376.3  | 393.1  | 399.7  | 396.1  |
| 20°   | 218.9  | 219.6  | 218.9  | 221.1  | 209.4  | 212.3  | 222.5  | 223.3  | 226.9  | 230.6  | 229.9  |
| 22.5° | 125.2  | 125.9  | 130.3  | 128.8  | 125.9  | 129.6  | 131.8  | 135.4  | 136.9  | 135.4  | 139.8  |
| 25°   | 60.0   | 60.8   | 60.8   | 69.5   | 73.9   | 77.6   | 79.1   | 77.6   | 76.1   | 70.3   | 69.5   |
| 27.5° | 34.4   | 34.4   | 35.9   | 36.6   | 38.1   | 44.7   | 43.9   | 36.6   | 30.7   | 30.7   | 31.5   |
| 30°   | 20.5   | 19.8   | 19.8   | 20.5   | 21.2   | 22.0   | 20.5   | 19.8   | 19.8   | 20.5   | 19.8   |
| 32.5° | 12.4   | 12.4   | 12.4   | 11.7   | 11.7   | 11.0   | 11.0   | 12.4   | 12.4   | 12.4   | 12.4   |
| 35°   | 7.3    | 7.3    | 7.3    | 7.3    | 6.6    | 6.6    | 6.6    | 7.3    | 7.3    | 6.6    | 6.6    |
| 37.5° | 4.4    | 4.4    | 4.4    | 3.7    | 3.7    | 2.9    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 40°   | 2.9    | 2.9    | 2.2    | 2.2    | 1.5    | 1.5    | 1.5    | 2.2    | 2.2    | 2.2    | 2.2    |
| 42.5° | 2.2    | 2.2    | 1.5    | 1.5    | 0.7    | 0.7    | 0.7    | 1.5    | 1.5    | 1.5    | 1.5    |
| 45°   | 1.5    | 1.5    | 1.5    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.5    | 1.5    |
| 47.5° | 1.5    | 1.5    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    |
| 50°   | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    |
| 52.5° | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    |
| 55°   | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    |
| 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    | 0.7    | 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)