

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: P1317290

Luminaire Tested: LDSQA3D09R159827DE010 3LSQPHRL1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R159827DE010 3LSQPHRL1MB  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , 3LSQPHRL1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

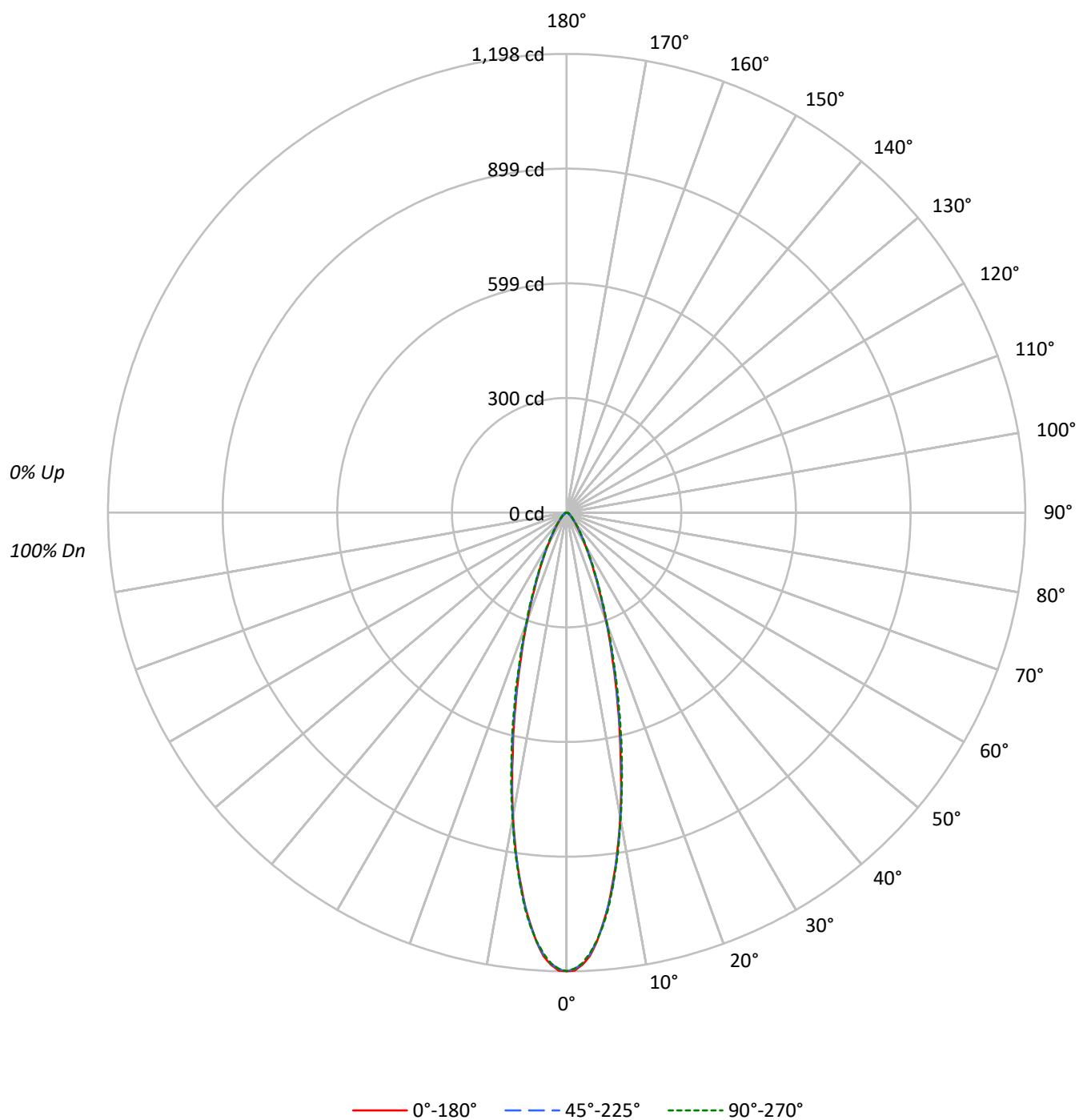
Lumens per Lamp: N/A  
Luminaire Lumens: 396.0 lumens  
Efficiency: N/A  
Efficacy: 36.0 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.46 / 0.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 |  | 101 | 100 | 99  |  | 98  |
| 2   | 109 | 104 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 97  | 94  |  | 97  | 94  | 92  |  | 94  |
| 3   | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 91  | 88  |  | 92  | 89  | 87  |  | 90  |
| 4   | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 84  | 90  | 86  | 83  |  | 88  | 85  | 82  |  | 86  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 83  | 79  | 86  | 82  | 78  |  | 84  | 80  | 78  |  | 83  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 78  | 75  | 82  | 78  | 74  |  | 81  | 77  | 74  |  | 79  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 79  | 74  | 71  |  | 77  | 74  | 71  |  | 76  |
| 8   | 85  | 77  | 72  | 68  | 84  | 76  | 72  | 68  | 75  | 71  | 68  |  | 74  | 70  | 68  |  | 74  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 69  | 65  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 63  | 78  | 71  | 66  | 63  | 70  | 66  | 63  |  | 69  | 65  | 62  |  | 69  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 206237 | 206237 | 206237 |
| 5°  | 186797 | 187160 | 187420 |
| 10° | 141040 | 141390 | 142107 |
| 15° | 91485  | 92483  | 94284  |
| 20° | 55074  | 55734  | 56467  |
| 25° | 32172  | 32856  | 33331  |
| 30° | 18912  | 19509  | 19827  |
| 35° | 11648  | 12089  | 12299  |
| 40° | 7666   | 7891   | 8004   |
| 45° | 5334   | 5456   | 5578   |
| 50° | 3939   | 4099   | 4233   |
| 55° | 3213   | 3363   | 3363   |
| 60° | 2790   | 2790   | 2790   |
| 65° | 2486   | 2486   | 2486   |
| 70° | 2065   | 2316   | 2316   |
| 75° | 2063   | 2063   | 2063   |
| 80° | 1488   | 1984   | 1984   |
| 85° | 988    | 988    | 988    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 5578 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.3   | 23.8      |
| 10°-20°   | 144.2  | 36.4      |
| 20°-30°   | 82.0   | 20.7      |
| 30°-40°   | 37.4   | 9.4       |
| 40°-50°   | 18.0   | 4.5       |
| 50°-60°   | 10.0   | 2.5       |
| 60°-70°   | 6.1    | 1.5       |
| 70°-80°   | 3.3    | 0.8       |
| 80°-90°   | 0.7    | 0.2       |
| 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°    | 320.5  | 80.9      |
| 0°-40°    | 357.9  | 90.4      |
| 0°-60°    | 385.9  | 97.4      |
| 0°-90°    | 396.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 396.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1198 | 1198  | 1198 | 1198  | 1198 |      |
| 5°  | 1080 | 1080  | 1083 | 1083  | 1084 | 94   |
| 15° | 513  | 516   | 519  | 526   | 529  | 142  |
| 25° | 169  | 169   | 173  | 174   | 175  | 80   |
| 35° | 55   | 56    | 58   | 58    | 58   | 36   |
| 45° | 22   | 22    | 22   | 23    | 23   | 17   |
| 55° | 11   | 11    | 11   | 11    | 11   | 10   |
| 65° | 6    | 6     | 6    | 6     | 6    | 6    |
| 75° | 3    | 3     | 3    | 3     | 3    | 3    |
| 85° | 0    | 0     | 0    | 0     | 0    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1197.5 | 1197.5 | 1197.5 | 1197.5 | 1197.5 |
| 1°    | 1196.5 | 1193.4 | 1192.4 | 1191.9 | 1190.9 |
| 2°    | 1181.2 | 1178.7 | 1178.2 | 1178.2 | 1177.6 |
| 3°    | 1159.9 | 1155.3 | 1155.8 | 1154.3 | 1152.7 |
| 4°    | 1123.7 | 1121.7 | 1122.7 | 1123.7 | 1121.7 |
| 5°    | 1080.5 | 1080.0 | 1082.6 | 1082.6 | 1084.1 |
| 6°    | 1035.8 | 1035.3 | 1033.7 | 1037.8 | 1039.8 |
| 7°    | 978.8  | 981.9  | 985.9  | 983.9  | 985.4  |
| 8°    | 927.0  | 923.4  | 924.9  | 930.0  | 930.5  |
| 9°    | 865.9  | 863.4  | 870.0  | 872.0  | 872.6  |
| 10°   | 806.5  | 809.0  | 808.5  | 815.6  | 812.6  |
| 12.5° | 651.4  | 655.4  | 660.0  | 663.1  | 666.1  |
| 15°   | 513.1  | 515.6  | 518.7  | 525.8  | 528.8  |
| 17.5° | 394.6  | 397.6  | 400.7  | 406.8  | 407.8  |
| 20°   | 300.5  | 302.0  | 304.1  | 309.7  | 308.1  |
| 22.5° | 224.7  | 227.3  | 229.3  | 231.9  | 233.4  |
| 25°   | 169.3  | 169.3  | 172.9  | 174.4  | 175.4  |
| 27.5° | 126.1  | 127.1  | 129.7  | 131.7  | 131.2  |
| 30°   | 95.1   | 96.6   | 98.1   | 99.2   | 99.7   |
| 32.5° | 73.2   | 73.2   | 74.7   | 76.3   | 76.8   |
| 35°   | 55.4   | 56.4   | 57.5   | 58.5   | 58.5   |
| 37.5° | 43.2   | 43.7   | 44.7   | 45.3   | 45.3   |
| 40°   | 34.1   | 34.1   | 35.1   | 35.6   | 35.6   |
| 42.5° | 26.9   | 27.5   | 28.0   | 28.5   | 28.5   |
| 45°   | 21.9   | 21.9   | 22.4   | 22.9   | 22.9   |
| 47.5° | 17.8   | 17.8   | 18.3   | 18.8   | 18.8   |
| 50°   | 14.7   | 15.3   | 15.3   | 15.8   | 15.8   |
| 52.5° | 12.7   | 12.7   | 12.7   | 13.2   | 13.2   |
| 55°   | 10.7   | 10.7   | 11.2   | 11.2   | 11.2   |
| 57.5° | 9.2    | 9.2    | 9.2    | 9.7    | 9.7    |
| 60°   | 8.1    | 8.1    | 8.1    | 8.1    | 8.1    |
| 62.5° | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    |
| 65°   | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    |
| 67.5° | 5.1    | 5.1    | 5.1    | 5.6    | 5.6    |
| 70°   | 4.1    | 4.6    | 4.6    | 4.6    | 4.6    |
| 72.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 75°   | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 77.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 80°   | 1.5    | 2.0    | 2.0    | 2.0    | 2.0    |
| 82.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 85°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)