

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: P1317486

Luminaire Tested: LDSQA3D13R309827DE010 3LSQPHRL1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317486  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R309827DE010 3LSQPHRL1MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , 3LSQPHRL1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

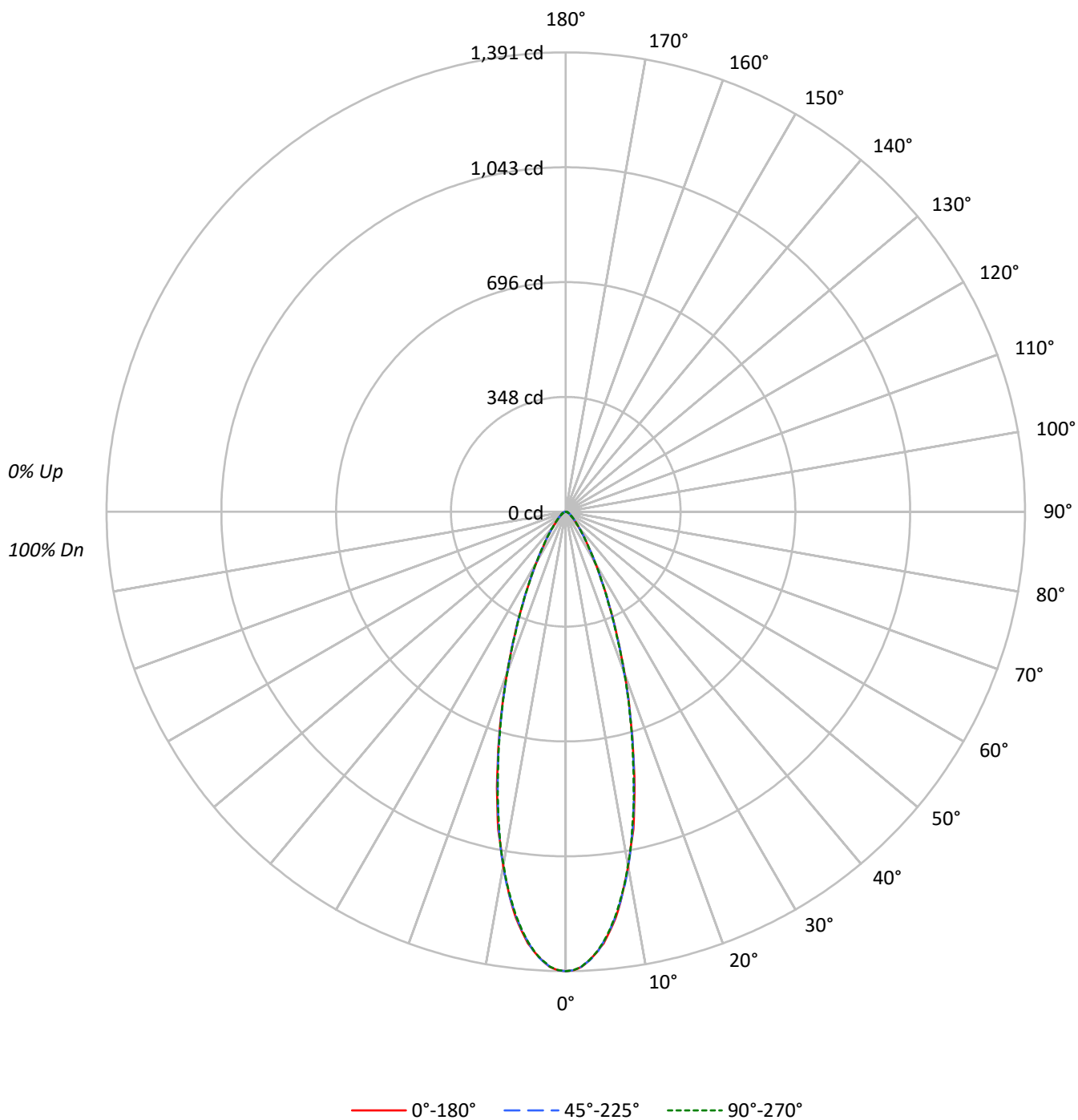
Lumens per Lamp: N/A  
Luminaire Lumens: 611.0 lumens  
Efficiency: N/A  
Efficacy: 42.1 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.57  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 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 | 100 |
| 1   | 114 | 111 | 109 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 |  | 101 | 100 | 98  |  | 98  | 97  | 96  | 94  |
| 2   | 108 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 99  | 96  | 93  |  | 96  | 93  | 91  |  | 93  | 91  | 90  | 88  |
| 3   | 103 | 97  | 93  | 89  | 101 | 96  | 92  | 88  | 93  | 90  | 87  |  | 91  | 88  | 85  |  | 89  | 86  | 84  | 83  |
| 4   | 99  | 92  | 87  | 83  | 97  | 91  | 86  | 82  | 89  | 84  | 81  |  | 87  | 83  | 80  |  | 85  | 82  | 79  | 78  |
| 5   | 95  | 87  | 81  | 77  | 93  | 86  | 81  | 77  | 84  | 80  | 76  |  | 82  | 79  | 76  |  | 81  | 78  | 75  | 74  |
| 6   | 90  | 82  | 77  | 73  | 89  | 82  | 76  | 73  | 80  | 76  | 72  |  | 79  | 75  | 72  |  | 77  | 74  | 71  | 70  |
| 7   | 87  | 78  | 73  | 69  | 86  | 78  | 72  | 69  | 76  | 72  | 68  |  | 75  | 71  | 68  |  | 74  | 71  | 68  | 66  |
| 8   | 83  | 75  | 69  | 66  | 82  | 74  | 69  | 65  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  | 67  | 65  | 63  |
| 9   | 80  | 71  | 66  | 62  | 79  | 71  | 66  | 62  | 70  | 65  | 62  |  | 69  | 65  | 62  |  | 68  | 65  | 62  | 61  |
| 10  | 77  | 68  | 63  | 60  | 76  | 68  | 63  | 60  | 67  | 63  | 59  |  | 66  | 62  | 59  |  | 66  | 62  | 59  | 58  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 239596 | 239596 | 239596 |
| 5°  | 226854 | 226266 | 226145 |
| 10° | 190566 | 190566 | 189867 |
| 15° | 141997 | 141622 | 140784 |
| 20° | 95028  | 94534  | 94662  |
| 25° | 58585  | 58452  | 58699  |
| 30° | 35219  | 35219  | 35358  |
| 35° | 21613  | 21613  | 21739  |
| 40° | 13669  | 13669  | 13984  |
| 45° | 9377   | 9548   | 9548   |
| 50° | 6886   | 6886   | 6886   |
| 55° | 5285   | 5495   | 5495   |
| 60° | 4409   | 4409   | 4650   |
| 65° | 3871   | 3871   | 3871   |
| 70° | 3424   | 3726   | 3726   |
| 75° | 3127   | 3127   | 3127   |
| 80° | 2678   | 2678   | 2678   |
| 85° | 1383   | 1383   | 1383   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 9548 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 117.9  | 19.3      |
| 10°-20°   | 217.8  | 35.6      |
| 20°-30°   | 144.8  | 23.7      |
| 30°-40°   | 66.9   | 11.0      |
| 40°-50°   | 31.1   | 5.1       |
| 50°-60°   | 16.6   | 2.7       |
| 60°-70°   | 9.7    | 1.6       |
| 70°-80°   | 5.1    | 0.8       |
| 80°-90°   | 1.1    | 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°    | 480.5  | 78.6      |
| 0°-40°    | 547.4  | 89.6      |
| 0°-60°    | 595.1  | 97.4      |
| 0°-90°    | 611.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 611.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1391 | 1391  | 1391 | 1391  | 1391 |      |
| 5°  | 1312 | 1310  | 1309 | 1312  | 1308 | 118  |
| 15° | 796  | 799   | 794  | 794   | 790  | 218  |
| 25° | 308  | 308   | 308  | 308   | 309  | 145  |
| 35° | 103  | 102   | 103  | 103   | 103  | 67   |
| 45° | 38   | 38    | 39   | 39    | 39   | 31   |
| 55° | 18   | 18    | 18   | 18    | 18   | 16   |
| 65° | 10   | 10    | 10   | 10    | 10   | 9    |
| 75° | 5    | 5     | 5    | 5     | 5    | 5    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1391.2 | 1391.2 | 1391.2 | 1391.2 | 1391.2 |
| 1°    | 1388.5 | 1387.2 | 1388.5 | 1390.6 | 1387.9 |
| 2°    | 1379.1 | 1377.7 | 1377.7 | 1380.4 | 1377.7 |
| 3°    | 1360.8 | 1362.2 | 1361.5 | 1364.2 | 1359.5 |
| 4°    | 1337.8 | 1337.2 | 1339.9 | 1341.2 | 1337.2 |
| 5°    | 1312.2 | 1309.5 | 1308.8 | 1312.2 | 1308.1 |
| 6°    | 1277.0 | 1275.0 | 1273.6 | 1277.7 | 1272.3 |
| 7°    | 1239.1 | 1237.8 | 1235.8 | 1237.1 | 1233.1 |
| 8°    | 1192.5 | 1191.8 | 1190.5 | 1191.8 | 1187.1 |
| 9°    | 1140.4 | 1140.4 | 1143.1 | 1142.5 | 1139.8 |
| 10°   | 1089.7 | 1091.1 | 1089.7 | 1091.1 | 1085.7 |
| 11°   | 1033.0 | 1033.0 | 1034.3 | 1033.6 | 1034.3 |
| 12°   | 983.6  | 978.2  | 976.8  | 975.5  | 971.4  |
| 13°   | 920.1  | 916.0  | 914.7  | 916.0  | 914.0  |
| 14°   | 861.9  | 859.2  | 852.5  | 853.8  | 851.1  |
| 15°   | 796.4  | 799.1  | 794.3  | 794.3  | 789.6  |
| 17.5° | 651.0  | 648.3  | 649.7  | 650.3  | 648.3  |
| 20°   | 518.5  | 517.2  | 515.8  | 514.5  | 516.5  |
| 22.5° | 402.9  | 403.6  | 402.2  | 400.9  | 399.5  |
| 25°   | 308.3  | 307.6  | 307.6  | 307.6  | 308.9  |
| 27.5° | 233.9  | 233.9  | 233.9  | 234.6  | 234.6  |
| 30°   | 177.1  | 175.8  | 177.1  | 177.8  | 177.8  |
| 32.5° | 132.5  | 133.9  | 134.5  | 134.5  | 134.5  |
| 35°   | 102.8  | 102.1  | 102.8  | 103.4  | 103.4  |
| 37.5° | 78.4   | 78.4   | 79.1   | 79.1   | 79.8   |
| 40°   | 60.8   | 60.8   | 60.8   | 61.5   | 62.2   |
| 42.5° | 48.0   | 48.0   | 48.7   | 48.7   | 49.3   |
| 45°   | 38.5   | 38.5   | 39.2   | 39.2   | 39.2   |
| 47.5° | 31.1   | 31.1   | 31.8   | 31.8   | 31.8   |
| 50°   | 25.7   | 25.7   | 25.7   | 25.7   | 25.7   |
| 52.5° | 21.6   | 21.0   | 21.6   | 21.6   | 21.6   |
| 55°   | 17.6   | 18.3   | 18.3   | 18.3   | 18.3   |
| 57.5° | 14.9   | 15.5   | 15.5   | 15.5   | 15.5   |
| 60°   | 12.8   | 12.8   | 12.8   | 13.5   | 13.5   |
| 62.5° | 10.8   | 11.5   | 11.5   | 11.5   | 11.5   |
| 65°   | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    |
| 67.5° | 8.1    | 8.1    | 8.1    | 8.1    | 8.8    |
| 70°   | 6.8    | 6.8    | 7.4    | 7.4    | 7.4    |
| 72.5° | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    |
| 75°   | 4.7    | 4.7    | 4.7    | 4.7    | 4.7    |
| 77.5° | 3.4    | 3.4    | 4.1    | 4.1    | 3.4    |
| 80°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 82.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 85°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 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)