

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: P1311485

Luminaire Tested: LDSQA3D13R309040DE010 3LSQPHR1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311485  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R309040DE010 3LSQPHR1MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 90CRI , 3LSQPHR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

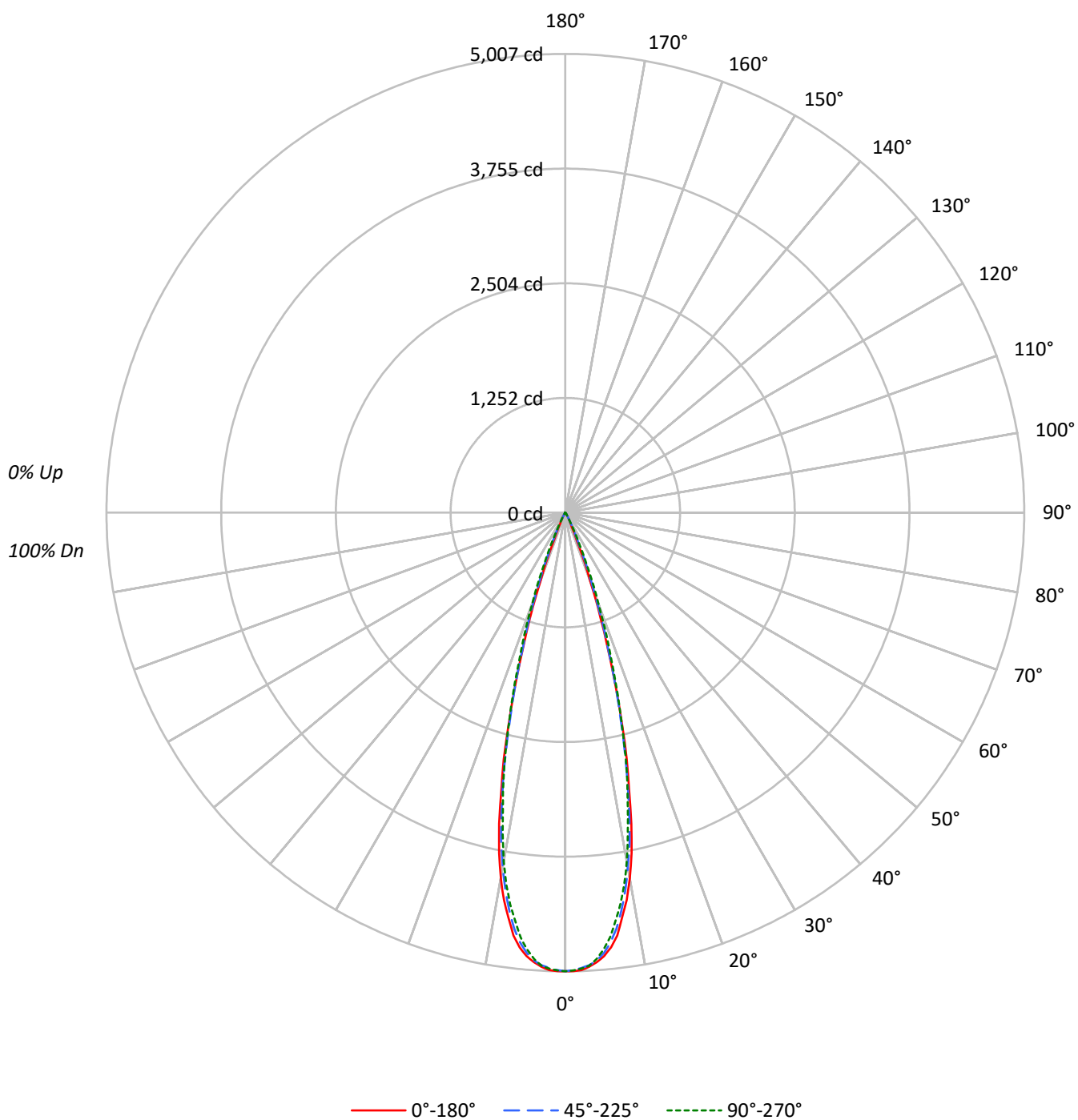
Lumens per Lamp: N/A  
Luminaire Lumens: 1213.0 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Spacing Criteria (0/90/45): 0.5 / 0.49 / 0.46  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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   | 115 | 113 | 111 | 110 | 113 | 111 | 109 | 108 | 107 | 106 | 105 |  | 103 | 103 | 102 |  | 100 |
| 2   | 112 | 108 | 105 | 103 | 110 | 107 | 104 | 102 | 104 | 101 | 100 |  | 101 | 99  | 98  |  | 98  |
| 3   | 108 | 104 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 98  | 96  |  | 98  | 96  | 94  |  | 96  |
| 4   | 105 | 100 | 97  | 94  | 104 | 99  | 96  | 93  | 97  | 94  | 92  |  | 95  | 93  | 91  |  | 94  |
| 5   | 102 | 97  | 93  | 90  | 101 | 96  | 93  | 90  | 95  | 91  | 89  |  | 93  | 90  | 88  |  | 92  |
| 6   | 100 | 94  | 90  | 87  | 99  | 93  | 90  | 87  | 92  | 89  | 86  |  | 91  | 88  | 86  |  | 90  |
| 7   | 97  | 91  | 87  | 84  | 96  | 91  | 87  | 84  | 90  | 86  | 84  |  | 88  | 86  | 83  |  | 88  |
| 8   | 95  | 89  | 85  | 82  | 94  | 88  | 84  | 82  | 87  | 84  | 82  |  | 86  | 83  | 81  |  | 86  |
| 9   | 92  | 86  | 82  | 80  | 92  | 86  | 82  | 80  | 85  | 82  | 79  |  | 84  | 81  | 79  |  | 84  |
| 10  | 90  | 84  | 80  | 78  | 90  | 84  | 80  | 78  | 83  | 80  | 77  |  | 82  | 79  | 77  |  | 82  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 862164 | 862164 | 862164 |
| 5°  | 839957 | 834183 | 827302 |
| 10° | 708856 | 687101 | 675944 |
| 15° | 427184 | 415238 | 422887 |
| 20° | 144898 | 167331 | 193007 |
| 25° | 26623  | 41730  | 49293  |
| 30° | 9148   | 10182  | 11435  |
| 35° | 2628   | 3301   | 3511   |
| 40° | 697    | 1169   | 944    |
| 45° | 244    | 244    | 244    |
| 50° | 268    | 0      | 268    |
| 55° | 0      | 0      | 0      |
| 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: 52.5°

Luminance: 283 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 432.9  | 35.7      |
| 10°-20°   | 632.7  | 52.2      |
| 20°-30°   | 133.9  | 11.0      |
| 30°-40°   | 12.3   | 1.0       |
| 40°-50°   | 1.2    | 0.1       |
| 50°-60°   | 0.1    | 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°    | 1199.4 | 98.9      |
| 0°-40°    | 1211.7 | 99.9      |
| 0°-60°    | 1213.0 | 100.0     |
| 0°-90°    | 1213.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1213.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5006 | 5006  | 5006 | 5006  | 5006 |      |
| 5°  | 4859 | 4849  | 4825 | 4810  | 4785 | 439  |
| 15° | 2396 | 2388  | 2329 | 2383  | 2372 | 632  |
| 25° | 140  | 157   | 220  | 258   | 259  | 102  |
| 35° | 12   | 16    | 16   | 19    | 17   | 10   |
| 45° | 1    | 1     | 1    | 1     | 1    | 1    |
| 55° | 0    | 0     | 0    | 0     | 0    | 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°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5006.1 | 5006.1 | 5006.1 | 5006.1 | 5006.1 |
| 1°    | 5007.1 | 5001.9 | 4994.6 | 5005.1 | 4997.7 |
| 2°    | 4996.7 | 4984.1 | 4973.7 | 4984.1 | 4981.0 |
| 3°    | 4965.3 | 4954.9 | 4947.5 | 4952.8 | 4952.8 |
| 4°    | 4918.3 | 4906.8 | 4900.5 | 4901.5 | 4885.8 |
| 5°    | 4858.6 | 4849.2 | 4825.2 | 4810.5 | 4785.4 |
| 6°    | 4770.8 | 4747.8 | 4718.5 | 4694.5 | 4662.0 |
| 7°    | 4651.6 | 4616.0 | 4574.2 | 4532.4 | 4491.6 |
| 8°    | 4460.2 | 4443.5 | 4387.0 | 4358.8 | 4318.0 |
| 9°    | 4280.3 | 4239.6 | 4178.9 | 4132.9 | 4110.9 |
| 10°   | 4053.4 | 3992.7 | 3929.0 | 3892.4 | 3865.2 |
| 11°   | 3784.6 | 3722.9 | 3671.7 | 3618.4 | 3576.5 |
| 12°   | 3468.8 | 3416.5 | 3358.0 | 3322.4 | 3273.3 |
| 13°   | 3094.4 | 3087.1 | 3021.2 | 3009.7 | 3003.5 |
| 14°   | 2773.4 | 2744.1 | 2679.3 | 2697.0 | 2701.2 |
| 15°   | 2395.9 | 2387.5 | 2328.9 | 2383.3 | 2371.8 |
| 17.5° | 1500.7 | 1503.8 | 1540.4 | 1626.2 | 1653.4 |
| 20°   | 790.6  | 814.7  | 913.0  | 1016.5 | 1053.1 |
| 22.5° | 320.0  | 373.3  | 473.7  | 543.8  | 590.9  |
| 25°   | 140.1  | 156.9  | 219.6  | 258.3  | 259.4  |
| 27.5° | 79.5   | 80.5   | 105.6  | 109.8  | 111.9  |
| 30°   | 46.0   | 47.1   | 51.2   | 54.4   | 57.5   |
| 32.5° | 25.1   | 27.2   | 28.2   | 32.4   | 32.4   |
| 35°   | 12.5   | 15.7   | 15.7   | 18.8   | 16.7   |
| 37.5° | 7.3    | 8.4    | 9.4    | 9.4    | 8.4    |
| 40°   | 3.1    | 4.2    | 5.2    | 5.2    | 4.2    |
| 42.5° | 1.0    | 2.1    | 2.1    | 2.1    | 3.1    |
| 45°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 47.5° | 1.0    | 1.0    | 0.0    | 1.0    | 1.0    |
| 50°   | 1.0    | 0.0    | 0.0    | 0.0    | 1.0    |
| 52.5° | 1.0    | 0.0    | 0.0    | 0.0    | 1.0    |
| 55°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)