

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: P1311490

Luminaire Tested: LDSQA3D13R309040DE010 3LSQPHRLP1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311490  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R309040DE010 3LSQPHRLP1MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 90CRI , 3LSQPHRLP1MW TRIM  
Light Source: -  
Ballast/Driver: -

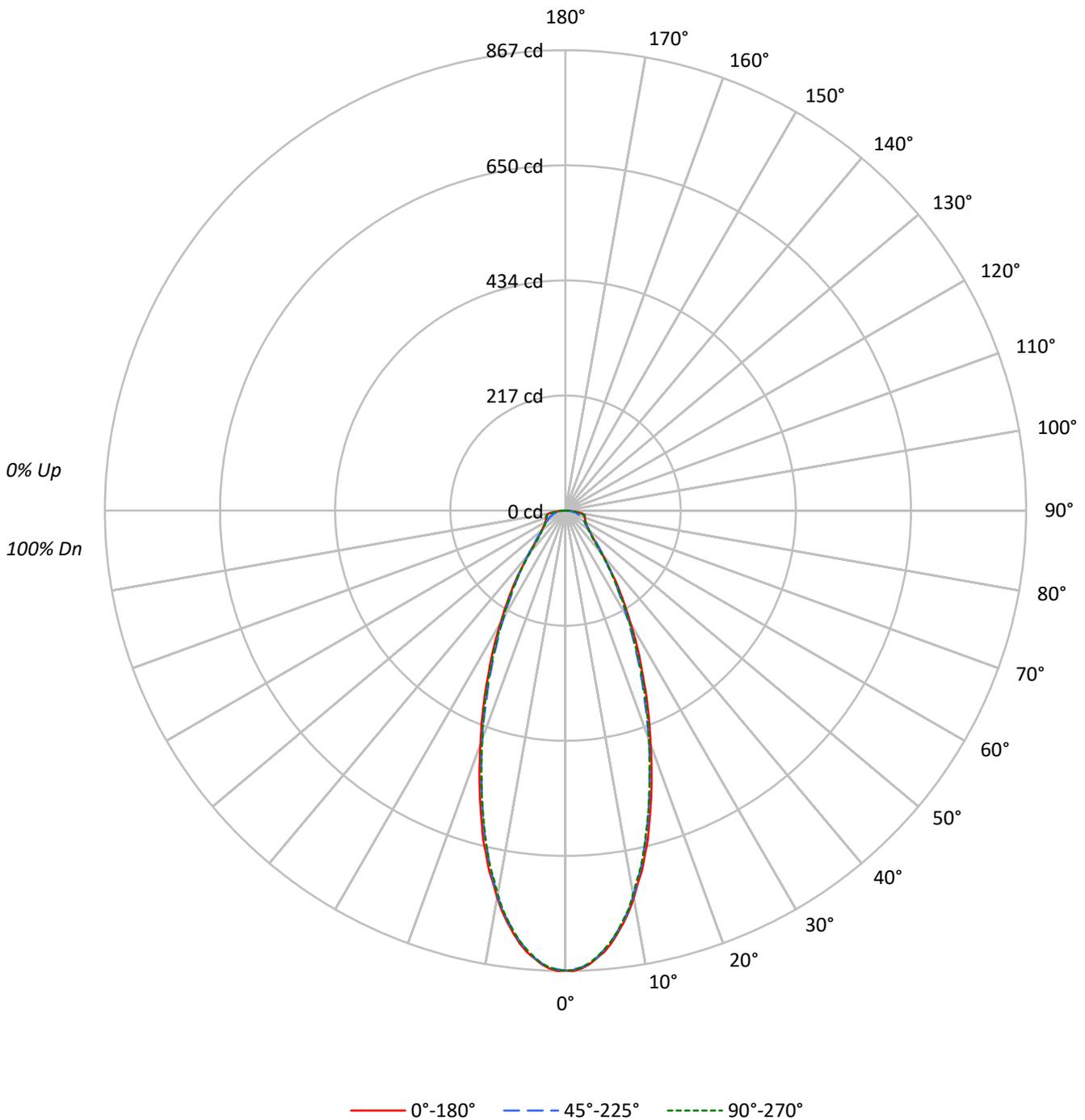
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 683.0 lumens  
Efficiency: N/A  
Efficacy: 46.8 lumens/watt  
Spacing Criteria (0/90/45): 0.67 / 0.66 / 0.7  
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  |     |     | 0   |     |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 | 100 | 100 | 100 |
| 1   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99  | 101 | 99  | 96  | 97  | 95  | 93  | 94  | 92  | 91  | 89  | 89  | 89  | 89  |
| 2   | 104 | 98  | 92  | 88  | 102 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 84  | 81  | 79  | 79  | 79  | 79  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  | 83  | 78  | 75  | 80  | 77  | 74  | 72  | 72  | 72  | 72  |
| 4   | 92  | 82  | 76  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 66  | 66  | 66  | 66  |
| 5   | 86  | 76  | 69  | 64  | 85  | 75  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 61  | 61  | 61  | 61  |
| 6   | 82  | 71  | 64  | 59  | 80  | 70  | 64  | 59  | 69  | 63  | 59  | 67  | 62  | 58  | 66  | 61  | 58  | 56  | 56  | 56  | 56  |
| 7   | 77  | 67  | 60  | 55  | 76  | 66  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 62  | 57  | 54  | 52  | 52  | 52  | 52  |
| 8   | 74  | 63  | 56  | 51  | 72  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 51  | 49  | 49  | 49  | 49  |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 52  | 48  | 58  | 52  | 48  | 57  | 51  | 48  | 56  | 51  | 48  | 46  | 46  | 46  | 46  |
| 10  | 67  | 56  | 50  | 45  | 66  | 56  | 49  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 53  | 48  | 45  | 43  | 43  | 43  | 43  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 149162 | 149162 | 149162 |
| 5°  | 144303 | 143577 | 143577 |
| 10° | 129516 | 128781 | 128239 |
| 15° | 108548 | 106872 | 106676 |
| 20° | 85700  | 83977  | 83977  |
| 25° | 65597  | 63013  | 64210  |
| 30° | 48682  | 46177  | 47211  |
| 35° | 35195  | 33639  | 33870  |
| 40° | 24213  | 24685  | 23516  |
| 45° | 18096  | 18852  | 17317  |
| 50° | 15701  | 15406  | 15406  |
| 55° | 14773  | 14142  | 14443  |
| 60° | 15121  | 14053  | 14777  |
| 65° | 16627  | 14059  | 16178  |
| 70° | 19487  | 14200  | 18984  |
| 75° | 25086  | 15305  | 24354  |
| 80° | 31142  | 16563  | 29059  |
| 85° | 24898  | 16599  | 22724  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 80°  
 Luminance: 31142 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 76.4   | 11.2      |
| 10°-20°   | 166.1  | 24.3      |
| 20°-30°   | 154.7  | 22.7      |
| 30°-40°   | 102.7  | 15.0      |
| 40°-50°   | 59.8   | 8.8       |
| 50°-60°   | 43.5   | 6.4       |
| 60°-70°   | 36.8   | 5.4       |
| 70°-80°   | 30.5   | 4.5       |
| 80°-90°   | 12.7   | 1.9       |
| 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°    | 397.2  | 58.2      |
| 0°-40°    | 499.8  | 73.2      |
| 0°-60°    | 603.1  | 88.3      |
| 0°-90°    | 683.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 683.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 866 | 866   | 866 | 866   | 866 |      |
| 5°  | 835 | 834   | 830 | 830   | 830 | 77   |
| 15° | 609 | 602   | 599 | 598   | 598 | 168  |
| 25° | 345 | 339   | 332 | 333   | 338 | 159  |
| 35° | 167 | 164   | 160 | 161   | 161 | 105  |
| 45° | 74  | 75    | 77  | 73    | 71  | 60   |
| 55° | 49  | 48    | 47  | 48    | 48  | 45   |
| 65° | 41  | 37    | 34  | 37    | 40  | 41   |
| 75° | 38  | 28    | 23  | 28    | 37  | 39   |
| 85° | 13  | 15    | 8   | 14    | 12  | 15   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 866.1 | 866.1 | 866.1 | 866.1 | 866.1 |
| 1°    | 867.2 | 866.1 | 864.0 | 865.1 | 865.1 |
| 2°    | 863.0 | 861.9 | 860.9 | 860.9 | 860.9 |
| 3°    | 855.7 | 854.6 | 853.6 | 853.6 | 853.6 |
| 4°    | 845.2 | 844.1 | 844.1 | 843.1 | 843.1 |
| 5°    | 834.7 | 833.7 | 830.5 | 830.5 | 830.5 |
| 6°    | 820.1 | 819.0 | 817.0 | 815.9 | 815.9 |
| 7°    | 802.3 | 802.3 | 799.2 | 798.1 | 799.2 |
| 8°    | 783.5 | 782.4 | 780.3 | 779.3 | 779.3 |
| 9°    | 763.6 | 760.5 | 760.5 | 757.3 | 759.4 |
| 10°   | 740.6 | 738.5 | 736.4 | 734.3 | 733.3 |
| 11°   | 714.4 | 713.4 | 710.3 | 708.2 | 707.1 |
| 12°   | 692.5 | 687.2 | 685.2 | 682.0 | 684.1 |
| 13°   | 664.2 | 661.1 | 655.9 | 654.8 | 655.9 |
| 14°   | 640.2 | 633.9 | 629.7 | 627.6 | 626.6 |
| 15°   | 608.8 | 602.5 | 599.4 | 598.3 | 598.3 |
| 17.5° | 538.7 | 534.5 | 526.2 | 526.2 | 526.2 |
| 20°   | 467.6 | 463.4 | 458.2 | 457.1 | 458.2 |
| 22.5° | 405.9 | 398.5 | 390.2 | 391.2 | 397.5 |
| 25°   | 345.2 | 338.9 | 331.6 | 332.6 | 337.9 |
| 27.5° | 293.9 | 285.6 | 278.2 | 280.3 | 283.5 |
| 30°   | 244.8 | 239.5 | 232.2 | 234.3 | 237.4 |
| 32.5° | 202.9 | 199.8 | 191.4 | 193.5 | 196.7 |
| 35°   | 167.4 | 164.2 | 160.0 | 161.1 | 161.1 |
| 37.5° | 133.9 | 133.9 | 132.8 | 131.8 | 130.8 |
| 40°   | 107.7 | 109.8 | 109.8 | 106.7 | 104.6 |
| 42.5° | 87.9  | 90.0  | 92.1  | 87.9  | 84.7  |
| 45°   | 74.3  | 75.3  | 77.4  | 73.2  | 71.1  |
| 47.5° | 64.9  | 64.9  | 66.9  | 63.8  | 62.8  |
| 50°   | 58.6  | 58.6  | 57.5  | 56.5  | 57.5  |
| 52.5° | 53.3  | 52.3  | 51.3  | 52.3  | 52.3  |
| 55°   | 49.2  | 48.1  | 47.1  | 48.1  | 48.1  |
| 57.5° | 46.0  | 45.0  | 43.9  | 43.9  | 45.0  |
| 60°   | 43.9  | 41.8  | 40.8  | 41.8  | 42.9  |
| 62.5° | 41.8  | 38.7  | 37.7  | 38.7  | 40.8  |
| 65°   | 40.8  | 36.6  | 34.5  | 36.6  | 39.7  |
| 67.5° | 39.7  | 34.5  | 31.4  | 34.5  | 38.7  |
| 70°   | 38.7  | 32.4  | 28.2  | 32.4  | 37.7  |
| 72.5° | 37.7  | 30.3  | 26.2  | 30.3  | 37.7  |
| 75°   | 37.7  | 28.2  | 23.0  | 28.2  | 36.6  |
| 77.5° | 35.6  | 26.2  | 19.9  | 26.2  | 34.5  |
| 80°   | 31.4  | 24.1  | 16.7  | 23.0  | 29.3  |
| 82.5° | 23.0  | 20.9  | 12.6  | 19.9  | 22.0  |
| 85°   | 12.6  | 14.6  | 8.4   | 13.6  | 11.5  |
| 87.5° | 2.1   | 3.1   | 2.1   | 6.3   | 4.2   |



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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)