

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: P1317554

Luminaire Tested: LDSQA3D13R659827DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317554  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R659827DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

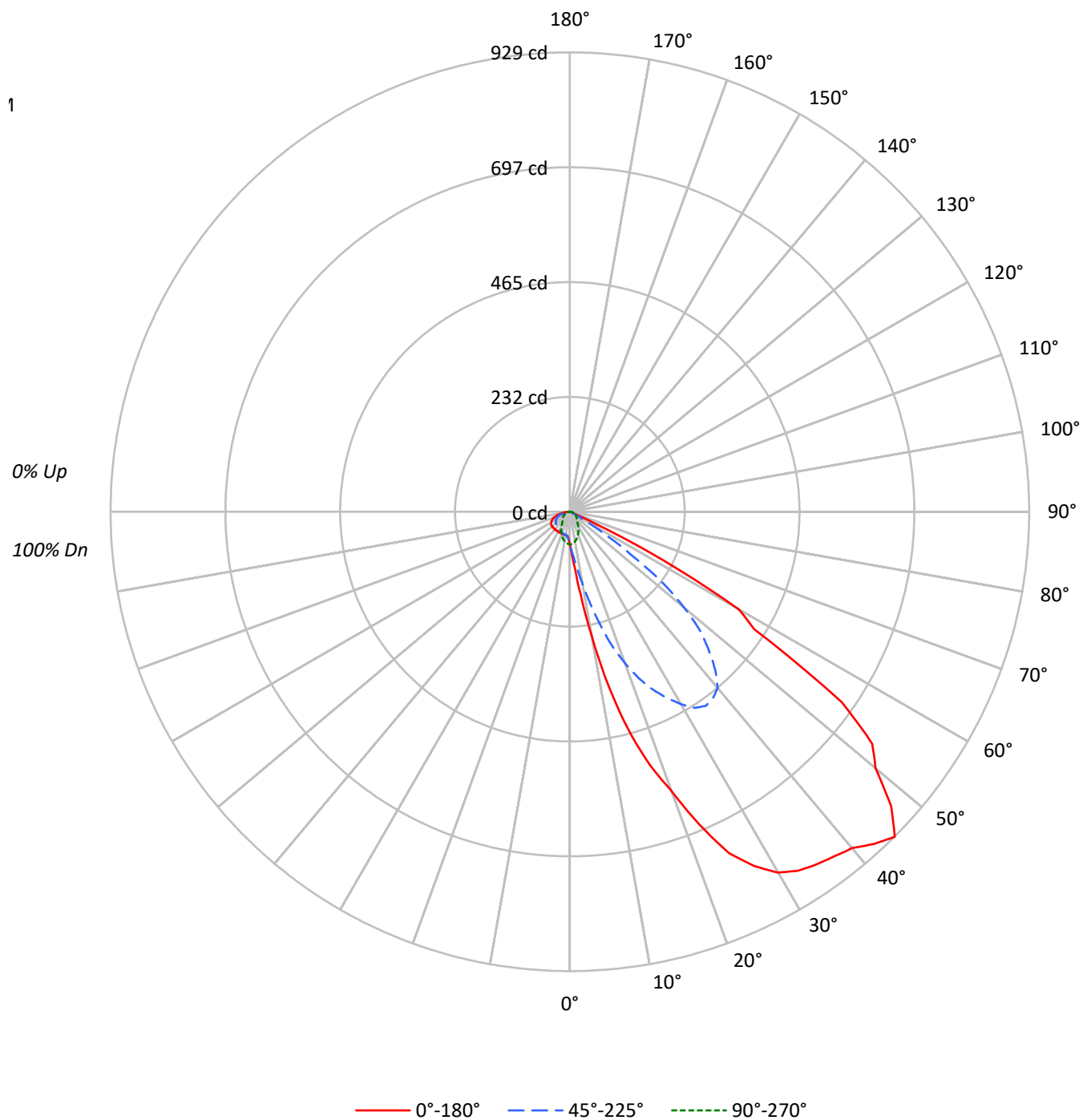
Lumens per Lamp: N/A  
Luminaire Lumens: 674.0 lumens  
Efficiency: N/A  
Efficacy: 46.5 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 94  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 92  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 3   | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 64  | 62  |    |    |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  | 67  | 61  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |
| 6   | 71  | 57  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 46  | 41  | 39  |    |    |
| 7   | 65  | 52  | 43  | 37  | 63  | 51  | 42  | 36  | 49  | 42  | 36  | 48  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  | 23  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 11298  | 11298  | 11298 | 11298 | 11298 |
| 5°  | 19743  | 16130  | 11099 | 8990  | 8644  |
| 10° | 44682  | 26005  | 10633 | 8272  | 8394  |
| 15° | 81215  | 41811  | 9878  | 8309  | 8558  |
| 20° | 110112 | 59693  | 8926  | 8302  | 8669  |
| 25° | 144724 | 75384  | 7829  | 8095  | 8855  |
| 30° | 167584 | 89370  | 6722  | 8054  | 9267  |
| 35° | 182997 | 100728 | 5677  | 8242  | 9797  |
| 40° | 199641 | 104519 | 5014  | 8656  | 10477 |
| 45° | 226316 | 96937  | 4774  | 9207  | 11350 |
| 50° | 216193 | 80942  | 4716  | 9779  | 12486 |
| 55° | 201505 | 45460  | 4864  | 10539 | 13812 |
| 60° | 135711 | 9782   | 4891  | 11160 | 14914 |
| 65° | 20946  | 2486   | 4686  | 11573 | 16260 |
| 70° | 2367   | 2367   | 4431  | 11934 | 17372 |
| 75° | 2262   | 2262   | 4059  | 11711 | 17567 |
| 80° | 1984   | 2678   | 4066  | 10711 | 17456 |
| 85° | 1383   | 2766   | 3952  | 10671 | 16006 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 226316 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 7.9    | 1.2       |
| 10°-20°   | 42.9   | 6.4       |
| 20°-30°   | 100.7  | 14.9      |
| 30°-40°   | 152.1  | 22.6      |
| 40°-50°   | 174.9  | 25.9      |
| 50°-60°   | 138.8  | 20.6      |
| 60°-70°   | 41.6   | 6.2       |
| 70°-80°   | 11.3   | 1.7       |
| 80°-90°   | 3.8    | 0.6       |
| 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°    | 151.5  | 22.5      |
| 0°-40°    | 303.6  | 45.0      |
| 0°-60°    | 617.3  | 91.6      |
| 0°-90°    | 674.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 674.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 66  | 66  | 66  | 66   | 66   |      |
| 5°  | 114 | 93  | 64  | 52   | 50   | 15   |
| 15° | 456 | 234 | 55  | 47   | 48   | 131  |
| 25° | 762 | 397 | 41  | 43   | 47   | 348  |
| 35° | 870 | 479 | 27  | 39   | 47   | 546  |
| 45° | 929 | 398 | 20  | 38   | 47   | 690  |
| 55° | 671 | 151 | 16  | 35   | 46   | 553  |
| 65° | 51  | 6   | 12  | 28   | 40   | 115  |
| 75° | 3   | 3   | 6   | 18   | 26   | 4    |
| 85° | 1   | 1   | 2   | 5    | 8    | 1    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 45°   | 67.5° | 90°  | 112.5° | 135° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|------|
| 0°    | 65.6  | 65.6  | 65.6  | 65.6  | 65.6  | 65.6  | 65.6  | 65.6  | 65.6 | 65.6   | 65.6 |
| 2.5°  | 83.1  | 83.8  | 83.1  | 83.1  | 82.4  | 81.8  | 77.0  | 71.6  | 65.6 | 60.8   | 57.4 |
| 5°    | 114.2 | 114.9 | 112.9 | 112.9 | 111.5 | 109.5 | 93.3  | 77.7  | 64.2 | 56.8   | 52.0 |
| 7.5°  | 168.9 | 171.7 | 168.3 | 164.2 | 156.8 | 155.4 | 116.2 | 83.8  | 62.8 | 52.7   | 48.7 |
| 10°   | 255.5 | 253.4 | 250.0 | 241.9 | 229.1 | 223.0 | 148.7 | 89.9  | 60.8 | 50.0   | 47.3 |
| 12.5° | 360.2 | 354.8 | 350.7 | 335.9 | 318.3 | 308.2 | 189.2 | 95.3  | 58.1 | 47.3   | 46.6 |
| 15°   | 455.5 | 451.4 | 442.0 | 427.8 | 406.2 | 398.0 | 234.5 | 98.7  | 55.4 | 45.3   | 46.6 |
| 17.5° | 535.9 | 531.9 | 526.4 | 512.3 | 490.0 | 477.8 | 285.2 | 100.7 | 52.0 | 43.9   | 46.0 |
| 20°   | 600.8 | 598.1 | 590.6 | 579.2 | 556.9 | 545.4 | 325.7 | 100.7 | 48.7 | 42.6   | 45.3 |
| 22.5° | 684.6 | 678.5 | 669.0 | 652.1 | 624.4 | 606.9 | 364.3 | 98.7  | 45.3 | 41.2   | 43.9 |
| 25°   | 761.6 | 757.6 | 745.4 | 725.1 | 695.4 | 677.8 | 396.7 | 94.6  | 41.2 | 39.2   | 42.6 |
| 27.5° | 807.6 | 804.9 | 793.4 | 772.4 | 739.3 | 725.8 | 423.7 | 88.5  | 37.2 | 37.2   | 41.9 |
| 30°   | 842.7 | 837.3 | 825.8 | 805.5 | 771.8 | 755.5 | 449.4 | 81.1  | 33.8 | 35.1   | 40.5 |
| 32.5° | 860.3 | 858.3 | 848.1 | 830.6 | 797.4 | 779.2 | 470.4 | 71.6  | 29.7 | 33.8   | 39.9 |
| 35°   | 870.4 | 868.4 | 860.3 | 843.4 | 812.3 | 794.7 | 479.1 | 62.8  | 27.0 | 32.4   | 39.2 |
| 37.5° | 878.5 | 876.5 | 866.4 | 849.5 | 818.4 | 800.1 | 475.1 | 53.4  | 24.3 | 31.1   | 38.5 |
| 40°   | 888.0 | 880.6 | 865.0 | 848.1 | 819.7 | 802.2 | 464.9 | 44.6  | 22.3 | 30.4   | 38.5 |
| 42.5° | 911.0 | 885.3 | 861.0 | 845.4 | 818.4 | 798.1 | 435.9 | 35.1  | 20.3 | 29.1   | 37.8 |
| 45°   | 929.2 | 883.9 | 852.9 | 840.7 | 813.0 | 790.0 | 398.0 | 25.7  | 19.6 | 28.4   | 37.8 |
| 47.5° | 881.2 | 853.5 | 839.3 | 832.6 | 802.8 | 777.8 | 358.8 | 17.6  | 18.9 | 27.7   | 37.2 |
| 50°   | 806.9 | 803.5 | 798.1 | 798.8 | 771.8 | 751.5 | 302.1 | 12.2  | 17.6 | 27.0   | 36.5 |
| 52.5° | 771.1 | 767.0 | 757.6 | 750.8 | 723.8 | 706.2 | 239.2 | 9.5   | 16.9 | 26.4   | 35.8 |
| 55°   | 671.1 | 673.8 | 663.6 | 667.7 | 659.6 | 650.8 | 151.4 | 8.8   | 16.2 | 25.0   | 35.1 |
| 57.5° | 442.0 | 455.5 | 479.1 | 507.5 | 533.2 | 550.8 | 81.8  | 8.8   | 14.9 | 24.3   | 33.8 |
| 60°   | 394.0 | 390.6 | 389.9 | 395.3 | 406.8 | 416.3 | 28.4  | 8.1   | 14.2 | 22.3   | 32.4 |
| 62.5° | 215.6 | 214.2 | 234.5 | 269.0 | 289.2 | 291.3 | 8.1   | 8.1   | 12.8 | 20.9   | 30.4 |
| 65°   | 51.4  | 53.4  | 59.5  | 74.3  | 87.9  | 96.6  | 6.1   | 7.4   | 11.5 | 19.6   | 28.4 |
| 67.5° | 8.1   | 8.8   | 8.8   | 10.8  | 12.2  | 12.2  | 5.4   | 6.8   | 10.1 | 17.6   | 26.4 |
| 70°   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 6.1   | 8.8  | 15.5   | 23.7 |
| 72.5° | 4.1   | 4.1   | 4.1   | 4.1   | 4.1   | 4.1   | 4.7   | 5.4   | 7.4  | 13.5   | 20.3 |
| 75°   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 4.7   | 6.1  | 10.8   | 17.6 |
| 77.5° | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 3.4   | 4.1   | 5.4  | 8.8    | 14.2 |
| 80°   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.7   | 3.4   | 4.1  | 6.8    | 10.8 |
| 82.5° | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 2.0   | 2.7   | 3.4  | 5.4    | 8.1  |
| 85°   | 0.7   | 0.7   | 0.7   | 0.7   | 1.4   | 1.4   | 1.4   | 2.0   | 2.0  | 3.4    | 5.4  |
| 87.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 1.4   | 1.4   | 1.4  | 2.0    | 2.7  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  |

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**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 65.6   | 65.6 |
| 2.5°  | 55.4   | 54.7 |
| 5°    | 50.0   | 50.0 |
| 7.5°  | 48.0   | 48.0 |
| 10°   | 47.3   | 48.0 |
| 12.5° | 47.3   | 48.0 |
| 15°   | 47.3   | 48.0 |
| 17.5° | 47.3   | 48.0 |
| 20°   | 46.6   | 47.3 |
| 22.5° | 46.0   | 46.6 |
| 25°   | 45.3   | 46.6 |
| 27.5° | 44.6   | 46.6 |
| 30°   | 44.6   | 46.6 |
| 32.5° | 44.6   | 46.6 |
| 35°   | 43.9   | 46.6 |
| 37.5° | 43.9   | 46.6 |
| 40°   | 43.9   | 46.6 |
| 42.5° | 43.9   | 46.6 |
| 45°   | 43.9   | 46.6 |
| 47.5° | 43.9   | 46.6 |
| 50°   | 43.9   | 46.6 |
| 52.5° | 43.3   | 46.6 |
| 55°   | 43.3   | 46.0 |
| 57.5° | 41.9   | 44.6 |
| 60°   | 40.5   | 43.3 |
| 62.5° | 39.2   | 41.9 |
| 65°   | 37.2   | 39.9 |
| 67.5° | 35.1   | 37.2 |
| 70°   | 31.8   | 34.5 |
| 72.5° | 28.4   | 30.4 |
| 75°   | 24.3   | 26.4 |
| 77.5° | 20.3   | 22.3 |
| 80°   | 16.2   | 17.6 |
| 82.5° | 11.5   | 12.8 |
| 85°   | 7.4    | 8.1  |
| 87.5° | 3.4    | 3.4  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)