

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: P1323830

Luminaire Tested: LDSQA3D09R659030D2WDE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1323830  
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: LDSQA3D09R659030D2WDE010 3LSQCA45R 1MB  
Description: 3in Adjustable Dim to Warm LED luminaire with, R65 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

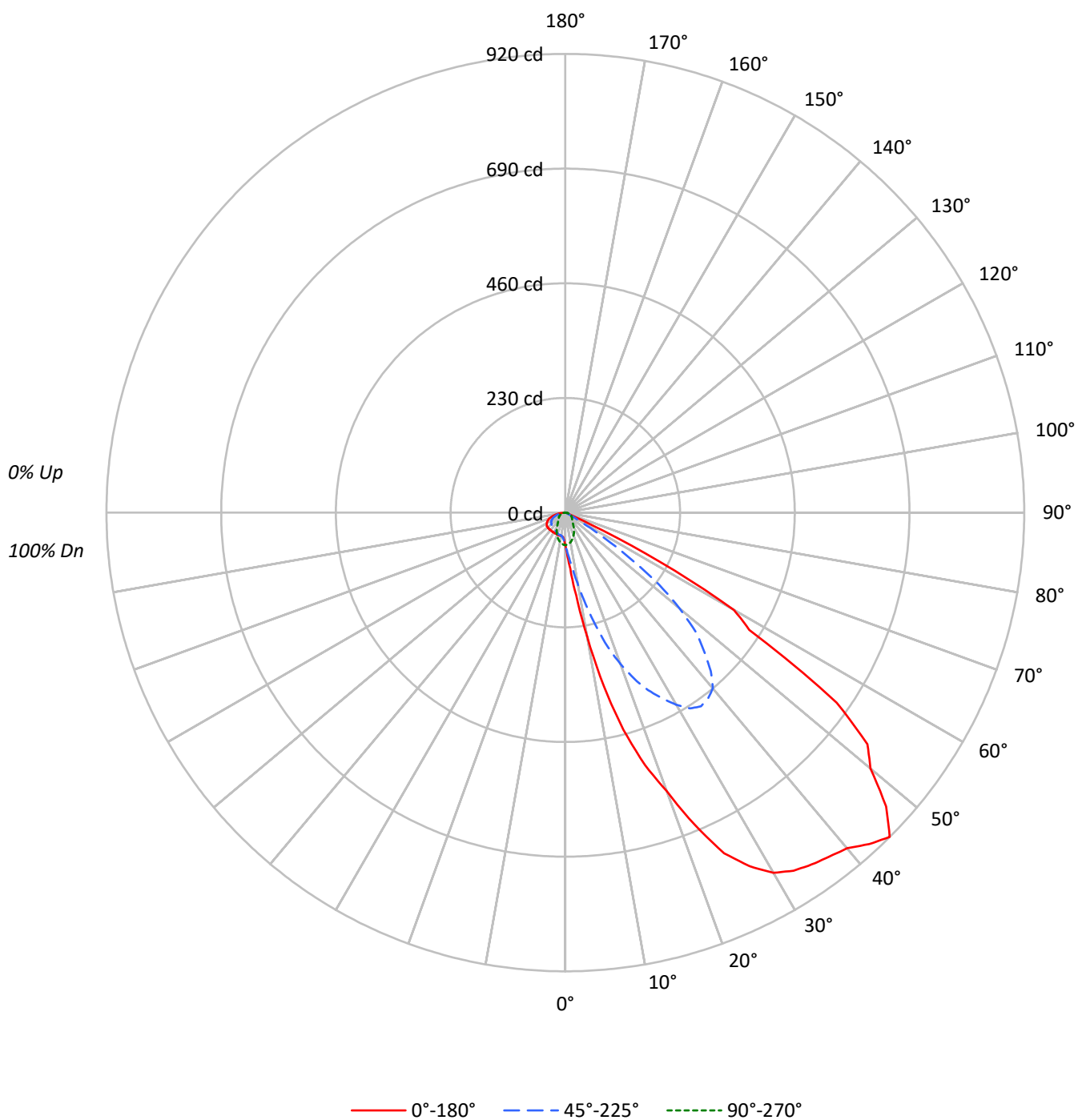
Lumens per Lamp: N/A  
Luminaire Lumens: 667.0 lumens  
Efficiency: N/A  
Efficacy: 45.4 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.7  
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

TEST NUMBER: P1323830

CATALOG NUMBER: LDSQA3D09R659030D2WDE010 3LSQCA45R 1MB

### Luminous Intensity Polar Plot





TEST NUMBER: P1323830

CATALOG NUMBER: LDSQA3D09R659030D2WDE010 3LSQCA45R 1MB

### 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   | 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  | 65  | 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°  | 11177  | 11177  | 11177 | 11177 | 11177 |
| 5°  | 19535  | 15957  | 10978 | 8903  | 8558  |
| 10° | 44210  | 25725  | 10528 | 8184  | 8307  |
| 15° | 80377  | 41383  | 9771  | 8220  | 8469  |
| 20° | 108957 | 59088  | 8834  | 8211  | 8577  |
| 25° | 143223 | 74604  | 7753  | 8000  | 8760  |
| 30° | 165854 | 88436  | 6642  | 7975  | 9168  |
| 35° | 181105 | 99698  | 5635  | 8158  | 9692  |
| 40° | 197572 | 103440 | 4969  | 8566  | 10364 |
| 45° | 223977 | 95938  | 4725  | 9133  | 11228 |
| 50° | 213943 | 80085  | 4662  | 9672  | 12352 |
| 55° | 199403 | 44979  | 4834  | 10449 | 13662 |
| 60° | 134299 | 9679   | 4822  | 11057 | 14742 |
| 65° | 20702  | 2445   | 4646  | 11451 | 16097 |
| 70° | 2367   | 2367   | 4381  | 11783 | 17171 |
| 75° | 2196   | 2196   | 3993  | 11578 | 17367 |
| 80° | 1984   | 2678   | 3967  | 10612 | 17257 |
| 85° | 1383   | 2569   | 3952  | 10671 | 15808 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $0^\circ$ 

Vertical Angle:  $45^\circ$

Luminance: 223977 cd/sqm

TEST NUMBER: P1323830

CATALOG NUMBER: LDSQA3D09R659030D2WDE010 3LSQCA45R 1MB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 7.9    | 1.2       |
| 10°-20°   | 42.4   | 6.4       |
| 20°-30°   | 99.6   | 14.9      |
| 30°-40°   | 150.6  | 22.6      |
| 40°-50°   | 173.1  | 25.9      |
| 50°-60°   | 137.4  | 20.6      |
| 60°-70°   | 41.2   | 6.2       |
| 70°-80°   | 11.2   | 1.7       |
| 80°-90°   | 3.7    | 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°    | 149.9  | 22.5      |
| 0°-40°    | 300.5  | 45.0      |
| 0°-60°    | 610.9  | 91.6      |
| 0°-90°    | 667.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 667.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 65  | 65  | 65  | 65   | 65   |      |
| 5°  | 113 | 92  | 64  | 52   | 50   | 15   |
| 15° | 451 | 232 | 55  | 46   | 48   | 130  |
| 25° | 754 | 393 | 41  | 42   | 46   | 344  |
| 35° | 861 | 474 | 27  | 39   | 46   | 541  |
| 45° | 920 | 394 | 19  | 38   | 46   | 683  |
| 55° | 664 | 150 | 16  | 35   | 46   | 547  |
| 65° | 51  | 6   | 11  | 28   | 40   | 114  |
| 75° | 3   | 3   | 6   | 17   | 26   | 4    |
| 85° | 1   | 1   | 2   | 5    | 8    | 1    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1323830

CATALOG NUMBER: LDSQA3D09R659030D2WDE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 45°   | 67.5° | 90°  | 112.5° | 135° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|------|
| 0°    | 64.9  | 64.9  | 64.9  | 64.9  | 64.9  | 64.9  | 64.9  | 64.9  | 64.9 | 64.9   | 64.9 |
| 2.5°  | 82.3  | 82.9  | 82.3  | 82.3  | 81.6  | 80.9  | 76.2  | 70.9  | 64.9 | 60.2   | 56.8 |
| 5°    | 113.0 | 113.7 | 111.7 | 111.7 | 110.3 | 108.3 | 92.3  | 76.9  | 63.5 | 56.2   | 51.5 |
| 7.5°  | 167.2 | 169.9 | 166.5 | 162.5 | 155.2 | 153.8 | 115.0 | 82.9  | 62.2 | 52.2   | 48.2 |
| 10°   | 252.8 | 250.8 | 247.4 | 239.4 | 226.7 | 220.7 | 147.1 | 88.9  | 60.2 | 49.5   | 46.8 |
| 12.5° | 356.5 | 351.1 | 347.1 | 332.4 | 315.0 | 305.0 | 187.3 | 94.3  | 57.5 | 46.8   | 46.1 |
| 15°   | 450.8 | 446.7 | 437.4 | 423.3 | 401.9 | 393.9 | 232.1 | 97.6  | 54.8 | 44.8   | 46.1 |
| 17.5° | 530.3 | 526.3 | 521.0 | 506.9 | 484.9 | 472.8 | 282.2 | 99.6  | 51.5 | 43.5   | 45.5 |
| 20°   | 594.5 | 591.9 | 584.5 | 573.1 | 551.1 | 539.7 | 322.4 | 99.6  | 48.2 | 42.1   | 44.8 |
| 22.5° | 677.5 | 671.5 | 662.1 | 645.4 | 618.0 | 600.6 | 360.5 | 97.6  | 44.8 | 40.8   | 43.5 |
| 25°   | 753.7 | 749.7 | 737.7 | 717.6 | 688.2 | 670.8 | 392.6 | 93.6  | 40.8 | 38.8   | 42.1 |
| 27.5° | 799.2 | 796.5 | 785.1 | 764.4 | 731.6 | 718.3 | 419.3 | 87.6  | 36.8 | 36.8   | 41.5 |
| 30°   | 834.0 | 828.6 | 817.2 | 797.2 | 763.7 | 747.7 | 444.7 | 80.3  | 33.4 | 34.8   | 40.1 |
| 32.5° | 851.4 | 849.3 | 839.3 | 821.9 | 789.2 | 771.1 | 465.5 | 70.9  | 29.4 | 33.4   | 39.5 |
| 35°   | 861.4 | 859.4 | 851.4 | 834.6 | 803.9 | 786.5 | 474.2 | 62.2  | 26.8 | 32.1   | 38.8 |
| 37.5° | 869.4 | 867.4 | 857.4 | 840.7 | 809.9 | 791.8 | 470.2 | 52.8  | 24.1 | 30.8   | 38.1 |
| 40°   | 878.8 | 871.4 | 856.0 | 839.3 | 811.2 | 793.8 | 460.1 | 44.1  | 22.1 | 30.1   | 38.1 |
| 42.5° | 901.5 | 876.1 | 852.0 | 836.6 | 809.9 | 789.8 | 431.4 | 34.8  | 20.1 | 28.8   | 37.5 |
| 45°   | 919.6 | 874.8 | 844.0 | 832.0 | 804.5 | 781.8 | 393.9 | 25.4  | 19.4 | 28.1   | 37.5 |
| 47.5° | 872.1 | 844.7 | 830.6 | 823.9 | 794.5 | 769.8 | 355.1 | 17.4  | 18.7 | 27.4   | 36.8 |
| 50°   | 798.5 | 795.2 | 789.8 | 790.5 | 763.7 | 743.7 | 298.9 | 12.0  | 17.4 | 26.8   | 36.1 |
| 52.5° | 763.1 | 759.1 | 749.7 | 743.0 | 716.3 | 698.9 | 236.7 | 9.4   | 16.7 | 26.1   | 35.4 |
| 55°   | 664.1 | 666.8 | 656.7 | 660.8 | 652.7 | 644.0 | 149.8 | 8.7   | 16.1 | 24.7   | 34.8 |
| 57.5° | 437.4 | 450.8 | 474.2 | 502.3 | 527.7 | 545.1 | 80.9  | 8.7   | 14.7 | 24.1   | 33.4 |
| 60°   | 389.9 | 386.6 | 385.9 | 391.2 | 402.6 | 412.0 | 28.1  | 8.0   | 14.0 | 22.1   | 32.1 |
| 62.5° | 213.3 | 212.0 | 232.1 | 266.2 | 286.2 | 288.2 | 8.0   | 8.0   | 12.7 | 20.7   | 30.1 |
| 65°   | 50.8  | 52.8  | 58.9  | 73.6  | 86.9  | 95.6  | 6.0   | 7.4   | 11.4 | 19.4   | 28.1 |
| 67.5° | 8.0   | 8.7   | 8.7   | 10.7  | 12.0  | 12.0  | 5.4   | 6.7   | 10.0 | 17.4   | 26.1 |
| 70°   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 6.0   | 8.7  | 15.4   | 23.4 |
| 72.5° | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.7   | 5.4   | 7.4  | 13.4   | 20.1 |
| 75°   | 3.3   | 3.3   | 3.3   | 3.3   | 3.3   | 3.3   | 3.3   | 4.7   | 6.0  | 10.7   | 17.4 |
| 77.5° | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 3.3   | 4.0   | 5.4  | 8.7    | 14.0 |
| 80°   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.7   | 3.3   | 4.0  | 6.7    | 10.7 |
| 82.5° | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 2.0   | 2.7   | 3.3  | 5.4    | 8.0  |
| 85°   | 0.7   | 0.7   | 0.7   | 0.7   | 1.3   | 1.3   | 1.3   | 2.0   | 2.0  | 3.3    | 5.4  |
| 87.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 1.3   | 1.3   | 1.3  | 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  |

TEST NUMBER: P1323830

CATALOG NUMBER: LDSQA3D09R659030D2WDE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 64.9   | 64.9 |
| 2.5°  | 54.8   | 54.2 |
| 5°    | 49.5   | 49.5 |
| 7.5°  | 47.5   | 47.5 |
| 10°   | 46.8   | 47.5 |
| 12.5° | 46.8   | 47.5 |
| 15°   | 46.8   | 47.5 |
| 17.5° | 46.8   | 47.5 |
| 20°   | 46.1   | 46.8 |
| 22.5° | 45.5   | 46.1 |
| 25°   | 44.8   | 46.1 |
| 27.5° | 44.1   | 46.1 |
| 30°   | 44.1   | 46.1 |
| 32.5° | 44.1   | 46.1 |
| 35°   | 43.5   | 46.1 |
| 37.5° | 43.5   | 46.1 |
| 40°   | 43.5   | 46.1 |
| 42.5° | 43.5   | 46.1 |
| 45°   | 43.5   | 46.1 |
| 47.5° | 43.5   | 46.1 |
| 50°   | 43.5   | 46.1 |
| 52.5° | 42.8   | 46.1 |
| 55°   | 42.8   | 45.5 |
| 57.5° | 41.5   | 44.1 |
| 60°   | 40.1   | 42.8 |
| 62.5° | 38.8   | 41.5 |
| 65°   | 36.8   | 39.5 |
| 67.5° | 34.8   | 36.8 |
| 70°   | 31.4   | 34.1 |
| 72.5° | 28.1   | 30.1 |
| 75°   | 24.1   | 26.1 |
| 77.5° | 20.1   | 22.1 |
| 80°   | 16.1   | 17.4 |
| 82.5° | 11.4   | 12.7 |
| 85°   | 7.4    | 8.0  |
| 87.5° | 3.3    | 3.3  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)