

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: P1327020

Luminaire Tested: LDSQA3D09R55W2N902765DE010 3LSQCA45R 1MW\_2700K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1327020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R55W2N902765DE010 3LSQCA45R 1MW\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R55 optic, 2700K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

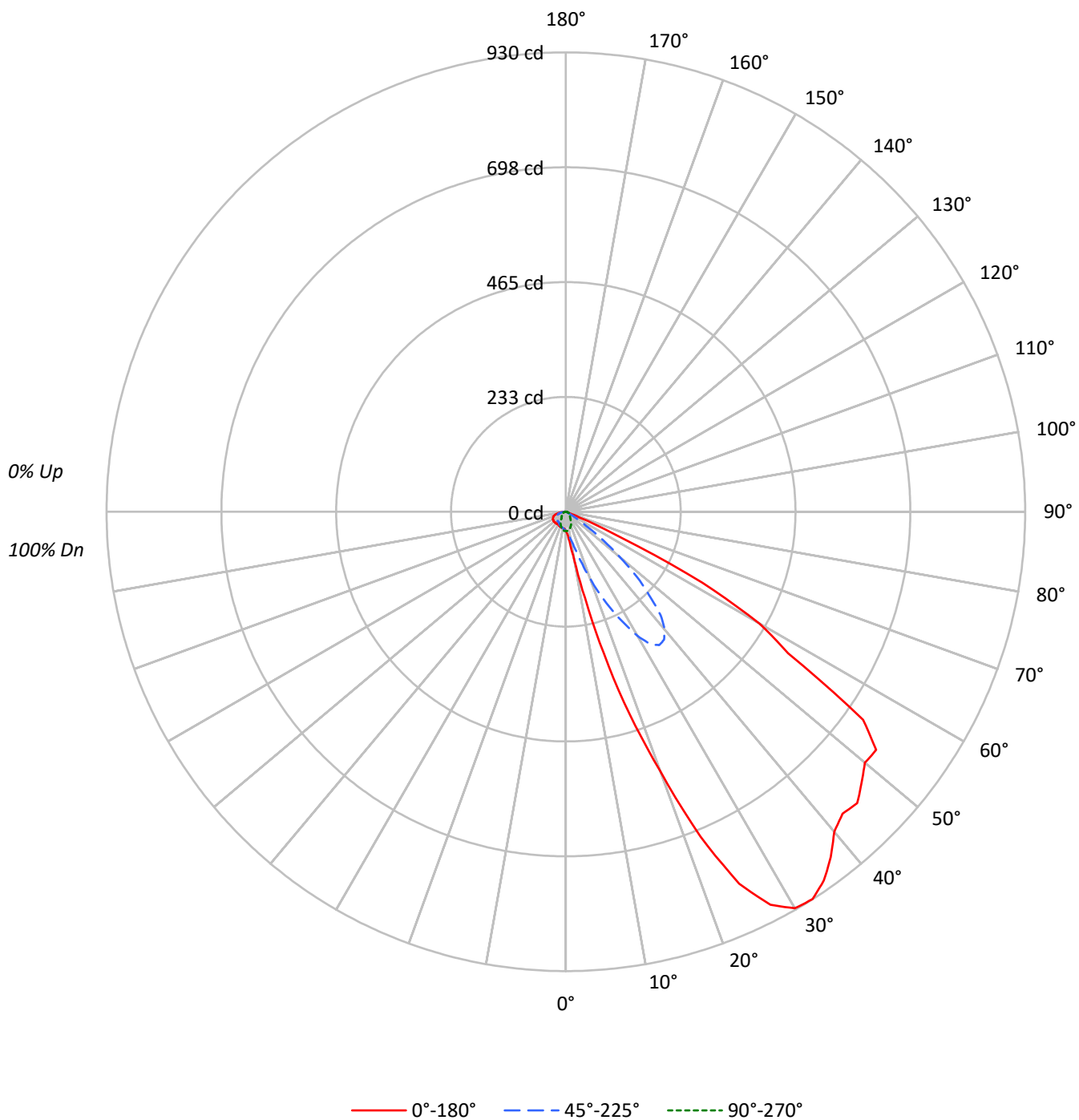
Lumens per Lamp: N/A  
Luminaire Lumens: 598.0 lumens  
Efficiency: N/A  
Efficacy: 66.4 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 9  
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



TEST NUMBER: P1327020

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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  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 71  | 65  | 74  | 69  | 64  | 72  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 51  |    |    |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 47  | 58  | 51  | 46  | 56  | 50  | 46  | 43  |    |    |
| 6   | 69  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  | 51  | 45  | 39  | 50  | 44  | 39  | 37  |    |    |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  | 32  |    |    |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 43  | 35  | 30  | 41  | 35  | 29  | 40  | 34  | 29  | 27  |    |    |
| 9   | 54  | 40  | 32  | 26  | 53  | 40  | 32  | 26  | 39  | 31  | 26  | 38  | 31  | 26  | 36  | 30  | 26  | 24  |    |    |
| 10  | 50  | 37  | 28  | 23  | 49  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 33  | 27  | 23  | 21  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180°  |
|-----|--------|-------|------|------|-------|
| 0°  | 6648   | 6648  | 6648 | 6648 | 6648  |
| 5°  | 8488   | 7762  | 6673 | 6206 | 6034  |
| 10° | 17278  | 9881  | 6471 | 5911 | 5911  |
| 15° | 53044  | 15173 | 6026 | 5741 | 5937  |
| 20° | 102543 | 26538 | 5425 | 5608 | 5901  |
| 25° | 157836 | 41274 | 4713 | 5416 | 5929  |
| 30° | 184309 | 57691 | 3878 | 5349 | 6085  |
| 35° | 191512 | 69318 | 3217 | 5340 | 6328  |
| 40° | 190063 | 69964 | 2968 | 5576 | 6880  |
| 45° | 203202 | 57918 | 2825 | 6040 | 7453  |
| 50° | 211773 | 38234 | 2840 | 6511 | 8359  |
| 55° | 220512 | 16664 | 2852 | 7146 | 9188  |
| 60° | 155793 | 3823  | 2928 | 7819 | 10368 |
| 65° | 50817  | 1304  | 2812 | 8395 | 11614 |
| 70° | 1611   | 1309  | 2921 | 9064 | 13294 |
| 75° | 1397   | 1397  | 2462 | 9515 | 14772 |
| 80° | 1091   | 1587  | 2579 | 9422 | 15769 |
| 85° | 988    | 2174  | 3162 | 9485 | 15611 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 224062 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.1    | 0.7       |
| 10°-20°   | 25.4   | 4.2       |
| 20°-30°   | 85.1   | 14.2      |
| 30°-40°   | 139.8  | 23.4      |
| 40°-50°   | 155.9  | 26.1      |
| 50°-60°   | 131.2  | 21.9      |
| 60°-70°   | 44.5   | 7.4       |
| 70°-80°   | 8.7    | 1.5       |
| 80°-90°   | 3.3    | 0.5       |
| 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°    | 114.6  | 19.2      |
| 0°-40°    | 254.4  | 42.5      |
| 0°-60°    | 541.5  | 90.6      |
| 0°-90°    | 598.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 598.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 39  | 39  | 39  | 39   | 39   |      |
| 5°  | 49  | 45  | 39  | 36   | 35   | 6    |
| 15° | 298 | 85  | 34  | 32   | 33   | 94   |
| 25° | 831 | 217 | 25  | 28   | 31   | 373  |
| 35° | 911 | 330 | 15  | 25   | 30   | 566  |
| 45° | 834 | 238 | 12  | 25   | 31   | 637  |
| 55° | 734 | 56  | 10  | 24   | 31   | 598  |
| 65° | 125 | 3   | 7   | 21   | 28   | 169  |
| 75° | 2   | 2   | 4   | 14   | 22   | 2    |
| 85° | 0   | 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°    | 38.6  | 38.6  | 38.6  | 38.6  | 38.6  | 38.6  | 38.6  | 38.6  | 38.6 | 38.6   | 38.6 |
| 2.5°  | 42.3  | 42.3  | 42.3  | 42.3  | 42.3  | 42.3  | 41.7  | 40.2  | 39.1 | 37.5   | 37.0 |
| 5°    | 49.1  | 49.1  | 49.1  | 48.6  | 48.6  | 47.6  | 44.9  | 41.2  | 38.6 | 36.5   | 35.9 |
| 7.5°  | 63.4  | 62.9  | 61.8  | 61.3  | 59.7  | 59.2  | 49.7  | 42.3  | 38.0 | 35.4   | 34.9 |
| 10°   | 98.8  | 97.7  | 96.2  | 90.4  | 85.1  | 81.4  | 56.5  | 42.8  | 37.0 | 34.3   | 33.8 |
| 12.5° | 178.1 | 175.9 | 168.0 | 155.9 | 141.1 | 133.7 | 67.6  | 43.3  | 35.4 | 33.3   | 33.3 |
| 15°   | 297.5 | 294.8 | 280.0 | 263.1 | 236.2 | 221.4 | 85.1  | 42.8  | 33.8 | 31.7   | 32.2 |
| 17.5° | 429.6 | 422.2 | 406.8 | 384.7 | 348.2 | 330.8 | 111.0 | 41.7  | 31.7 | 30.6   | 31.7 |
| 20°   | 559.5 | 557.4 | 532.1 | 502.0 | 457.0 | 433.8 | 144.8 | 40.2  | 29.6 | 29.1   | 30.6 |
| 22.5° | 711.7 | 702.7 | 675.8 | 643.6 | 581.7 | 551.1 | 181.2 | 38.0  | 27.5 | 27.5   | 29.6 |
| 25°   | 830.6 | 820.0 | 798.9 | 761.4 | 702.7 | 670.0 | 217.2 | 35.4  | 24.8 | 25.9   | 28.5 |
| 27.5° | 897.2 | 885.0 | 869.2 | 836.9 | 791.5 | 762.4 | 253.1 | 32.2  | 22.2 | 24.3   | 27.5 |
| 30°   | 926.8 | 923.6 | 912.0 | 888.2 | 846.4 | 820.6 | 290.1 | 28.5  | 19.5 | 22.7   | 26.9 |
| 32.5° | 929.9 | 931.5 | 926.8 | 911.4 | 879.7 | 857.5 | 317.5 | 25.4  | 17.4 | 21.7   | 25.9 |
| 35°   | 910.9 | 916.7 | 919.9 | 913.5 | 892.9 | 875.0 | 329.7 | 21.7  | 15.3 | 20.6   | 25.4 |
| 37.5° | 881.3 | 891.9 | 902.5 | 904.0 | 891.4 | 879.7 | 326.5 | 18.5  | 14.3 | 20.1   | 25.4 |
| 40°   | 845.4 | 854.9 | 876.6 | 890.3 | 886.1 | 877.6 | 311.2 | 15.3  | 13.2 | 19.0   | 24.8 |
| 42.5° | 829.0 | 831.1 | 854.4 | 877.6 | 876.6 | 869.7 | 284.3 | 12.2  | 12.2 | 19.0   | 24.8 |
| 45°   | 834.3 | 824.8 | 840.1 | 867.1 | 865.5 | 856.5 | 237.8 | 9.5   | 11.6 | 18.5   | 24.8 |
| 47.5° | 812.1 | 798.9 | 824.8 | 856.5 | 850.7 | 837.5 | 196.6 | 6.9   | 11.1 | 18.0   | 24.3 |
| 50°   | 790.4 | 788.3 | 808.4 | 824.3 | 816.3 | 808.9 | 142.7 | 5.3   | 10.6 | 17.4   | 24.3 |
| 52.5° | 792.0 | 788.3 | 790.4 | 789.9 | 774.1 | 766.1 | 97.7  | 4.2   | 10.0 | 16.9   | 24.3 |
| 55°   | 734.4 | 722.8 | 711.7 | 714.9 | 715.9 | 710.7 | 55.5  | 3.7   | 9.5  | 16.9   | 23.8 |
| 57.5° | 533.7 | 530.5 | 542.6 | 577.0 | 603.9 | 607.1 | 26.9  | 3.7   | 9.0  | 16.4   | 23.2 |
| 60°   | 452.3 | 450.2 | 450.7 | 460.7 | 475.0 | 466.0 | 11.1  | 3.7   | 8.5  | 15.9   | 22.7 |
| 62.5° | 311.7 | 332.3 | 340.8 | 364.0 | 354.5 | 341.9 | 4.2   | 4.2   | 7.9  | 14.8   | 22.2 |
| 65°   | 124.7 | 124.2 | 135.8 | 146.9 | 143.7 | 134.2 | 3.2   | 3.7   | 6.9  | 13.7   | 20.6 |
| 67.5° | 29.1  | 26.4  | 22.7  | 19.5  | 16.4  | 13.2  | 3.2   | 3.7   | 6.3  | 12.7   | 19.5 |
| 70°   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 2.6   | 2.6   | 3.7   | 5.8  | 11.6   | 18.0 |
| 72.5° | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.2   | 4.8  | 10.0   | 16.4 |
| 75°   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 2.6   | 3.7  | 8.5    | 14.3 |
| 77.5° | 1.6   | 1.6   | 1.6   | 2.1   | 1.6   | 2.1   | 2.1   | 2.6   | 3.2  | 6.9    | 12.2 |
| 80°   | 1.1   | 1.1   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 2.1   | 2.6  | 5.8    | 9.5  |
| 82.5° | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.6   | 1.6   | 2.1  | 4.2    | 6.9  |
| 85°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 1.1   | 1.1   | 1.6   | 1.6  | 3.2    | 4.8  |
| 87.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 1.1   | 1.1   | 1.6  | 1.6    | 2.1  |
| 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°    | 38.6   | 38.6 |
| 2.5°  | 36.5   | 36.5 |
| 5°    | 35.4   | 34.9 |
| 7.5°  | 34.3   | 34.3 |
| 10°   | 33.8   | 33.8 |
| 12.5° | 33.3   | 33.8 |
| 15°   | 33.3   | 33.3 |
| 17.5° | 32.2   | 32.8 |
| 20°   | 31.7   | 32.2 |
| 22.5° | 31.2   | 31.7 |
| 25°   | 30.6   | 31.2 |
| 27.5° | 30.1   | 30.6 |
| 30°   | 29.6   | 30.6 |
| 32.5° | 29.1   | 30.1 |
| 35°   | 29.1   | 30.1 |
| 37.5° | 29.1   | 30.6 |
| 40°   | 29.1   | 30.6 |
| 42.5° | 29.1   | 30.6 |
| 45°   | 29.1   | 30.6 |
| 47.5° | 29.1   | 30.6 |
| 50°   | 29.1   | 31.2 |
| 52.5° | 29.1   | 31.2 |
| 55°   | 29.1   | 30.6 |
| 57.5° | 28.5   | 30.6 |
| 60°   | 28.5   | 30.1 |
| 62.5° | 28.0   | 29.6 |
| 65°   | 26.9   | 28.5 |
| 67.5° | 25.9   | 28.0 |
| 70°   | 24.3   | 26.4 |
| 72.5° | 22.7   | 24.3 |
| 75°   | 20.6   | 22.2 |
| 77.5° | 18.0   | 19.0 |
| 80°   | 14.3   | 15.9 |
| 82.5° | 11.1   | 12.2 |
| 85°   | 7.4    | 7.9  |
| 87.5° | 3.2    | 3.7  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)