

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: P1327016

Luminaire Tested: LDSQA3D09R55W2N902765DE010 3LSQCA45R 1MMS\_3500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1327016  
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 1MMS\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R55 optic, 3500K CCT AND, 90CRI ,  
3LSQCA45R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

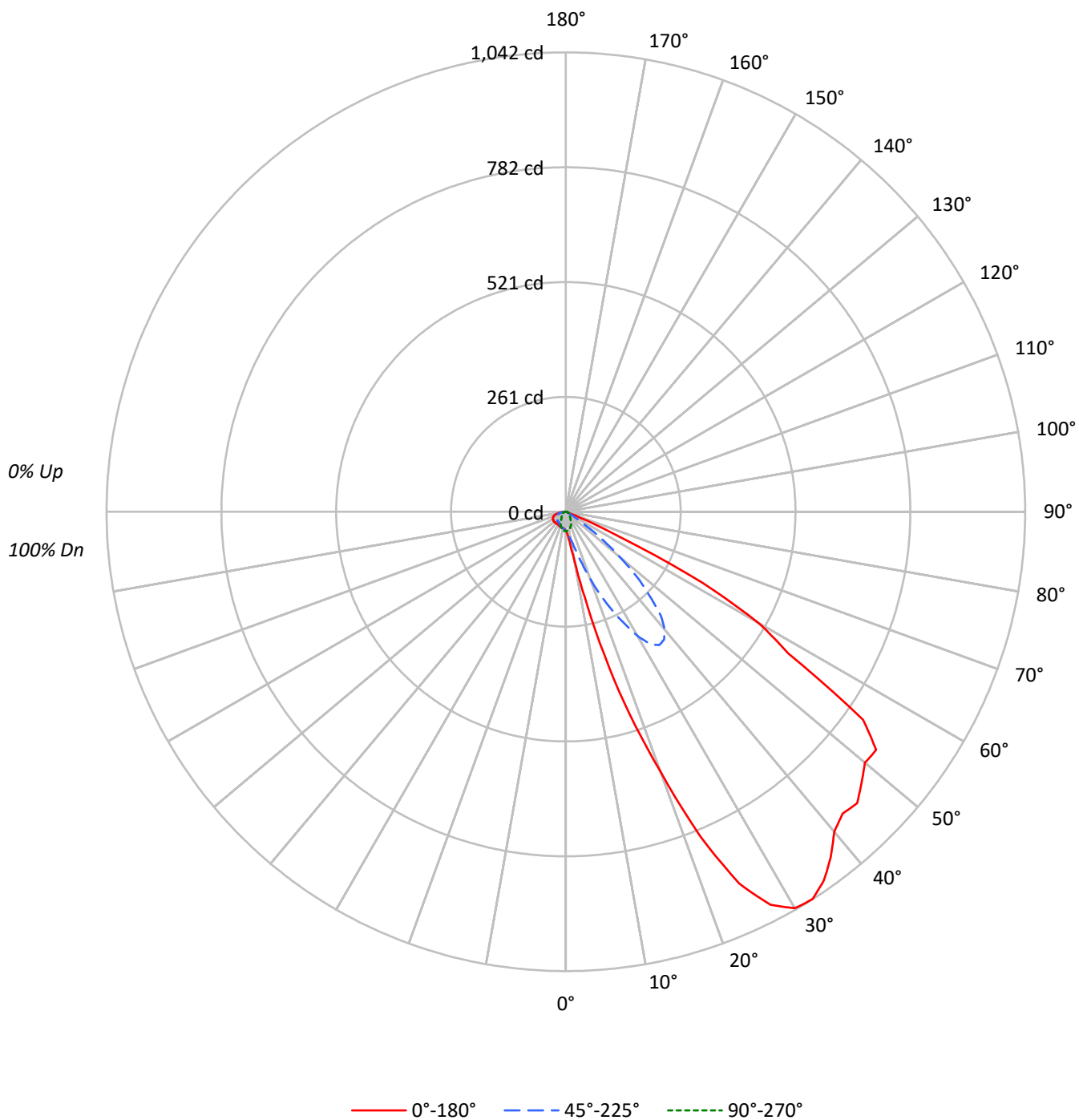
Lumens per Lamp: N/A  
Luminaire Lumens: 670.0 lumens  
Efficiency: N/A  
Efficacy: 74.4 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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: P1327016

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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  | 30  | 10  | 50  | 30  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  | 86  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  | 73  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 71  | 65  | 74  | 69  | 64  | 72  | 67  | 63  | 61  | 61  |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 51  | 51  |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 47  | 58  | 51  | 46  | 56  | 50  | 46  | 43  | 43  |
| 6   | 69  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  | 51  | 45  | 39  | 50  | 44  | 39  | 37  | 37  |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  | 32  | 32  |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 43  | 35  | 30  | 41  | 35  | 29  | 40  | 34  | 29  | 27  | 27  |
| 9   | 54  | 40  | 32  | 26  | 53  | 40  | 32  | 26  | 39  | 31  | 26  | 38  | 31  | 26  | 36  | 30  | 26  | 24  | 24  |
| 10  | 50  | 37  | 28  | 23  | 49  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 33  | 27  | 23  | 21  | 21  |

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

|     | 0°     | 45°   | 90°  | 135°  | 180°  |
|-----|--------|-------|------|-------|-------|
| 0°  | 7440   | 7440  | 7440 | 7440  | 7440  |
| 5°  | 9526   | 8696  | 7468 | 6967  | 6760  |
| 10° | 19359  | 11070 | 7240 | 6628  | 6628  |
| 15° | 59427  | 16992 | 6757 | 6437  | 6651  |
| 20° | 114895 | 29727 | 6085 | 6286  | 6616  |
| 25° | 176839 | 46233 | 5283 | 6081  | 6632  |
| 30° | 206482 | 64631 | 4355 | 6006  | 6821  |
| 35° | 214576 | 77665 | 3616 | 5971  | 7085  |
| 40° | 212950 | 78395 | 3327 | 6250  | 7711  |
| 45° | 227655 | 64884 | 3166 | 6771  | 8354  |
| 50° | 237280 | 42815 | 3162 | 7288  | 9351  |
| 55° | 247085 | 18676 | 3213 | 7987  | 10299 |
| 60° | 174530 | 4271  | 3272 | 8783  | 11608 |
| 65° | 56930  | 1467  | 3138 | 9414  | 13040 |
| 70° | 1813   | 1511  | 3273 | 10121 | 14905 |
| 75° | 1597   | 1597  | 2728 | 10647 | 16569 |
| 80° | 1190   | 1785  | 2975 | 10612 | 17654 |
| 85° | 1186   | 2371  | 3557 | 10473 | 17587 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 251051 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.6    | 0.7       |
| 10°-20°   | 28.4   | 4.2       |
| 20°-30°   | 95.4   | 14.2      |
| 30°-40°   | 156.6  | 23.4      |
| 40°-50°   | 174.7  | 26.1      |
| 50°-60°   | 147.0  | 21.9      |
| 60°-70°   | 49.9   | 7.4       |
| 70°-80°   | 9.8    | 1.5       |
| 80°-90°   | 3.7    | 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°    | 128.4  | 19.2      |
| 0°-40°    | 285.0  | 42.5      |
| 0°-60°    | 606.7  | 90.5      |
| 0°-90°    | 670.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 670.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 43   | 43  | 43  | 43   | 43   |      |
| 5°  | 55   | 50  | 43  | 40   | 39   | 7    |
| 15° | 333  | 95  | 38  | 36   | 37   | 106  |
| 25° | 931  | 243 | 28  | 32   | 35   | 418  |
| 35° | 1021 | 369 | 17  | 28   | 34   | 634  |
| 45° | 935  | 266 | 13  | 28   | 34   | 714  |
| 55° | 823  | 62  | 11  | 27   | 34   | 670  |
| 65° | 140  | 4   | 8   | 23   | 32   | 189  |
| 75° | 2    | 2   | 4   | 16   | 25   | 3    |
| 85° | 1    | 1   | 2   | 5    | 9    | 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°    | 43.2   | 43.2   | 43.2   | 43.2   | 43.2   | 43.2  | 43.2  | 43.2  | 43.2 | 43.2   | 43.2 |
| 2.5°  | 47.4   | 47.4   | 47.4   | 47.4   | 47.4   | 47.4  | 46.8  | 45.0  | 43.8 | 42.0   | 41.4 |
| 5°    | 55.1   | 55.1   | 55.1   | 54.5   | 54.5   | 53.3  | 50.3  | 46.2  | 43.2 | 40.8   | 40.3 |
| 7.5°  | 71.0   | 70.4   | 69.3   | 68.7   | 66.9   | 66.3  | 55.6  | 47.4  | 42.6 | 39.7   | 39.1 |
| 10°   | 110.7  | 109.5  | 107.7  | 101.2  | 95.3   | 91.2  | 63.3  | 48.0  | 41.4 | 38.5   | 37.9 |
| 12.5° | 199.5  | 197.1  | 188.3  | 174.6  | 158.1  | 149.8 | 75.8  | 48.5  | 39.7 | 37.3   | 37.3 |
| 15°   | 333.3  | 330.3  | 313.8  | 294.8  | 264.6  | 248.0 | 95.3  | 48.0  | 37.9 | 35.5   | 36.1 |
| 17.5° | 481.3  | 473.0  | 455.8  | 431.0  | 390.1  | 370.6 | 124.3 | 46.8  | 35.5 | 34.3   | 35.5 |
| 20°   | 626.9  | 624.5  | 596.1  | 562.4  | 512.1  | 486.0 | 162.2 | 45.0  | 33.2 | 32.6   | 34.3 |
| 22.5° | 797.4  | 787.3  | 757.1  | 721.0  | 651.8  | 617.4 | 203.1 | 42.6  | 30.8 | 30.8   | 33.2 |
| 25°   | 930.6  | 918.8  | 895.1  | 853.1  | 787.3  | 750.6 | 243.3 | 39.7  | 27.8 | 29.0   | 32.0 |
| 27.5° | 1005.2 | 991.6  | 973.8  | 937.7  | 886.8  | 854.2 | 283.6 | 36.1  | 24.9 | 27.2   | 30.8 |
| 30°   | 1038.3 | 1034.8 | 1021.8 | 995.1  | 948.4  | 919.4 | 325.0 | 32.0  | 21.9 | 25.5   | 30.2 |
| 32.5° | 1041.9 | 1043.7 | 1038.3 | 1021.2 | 985.7  | 960.8 | 355.8 | 28.4  | 19.5 | 24.3   | 29.0 |
| 35°   | 1020.6 | 1027.1 | 1030.6 | 1023.5 | 1000.5 | 980.3 | 369.4 | 24.3  | 17.2 | 23.1   | 28.4 |
| 37.5° | 987.4  | 999.3  | 1011.1 | 1012.9 | 998.7  | 985.7 | 365.8 | 20.7  | 16.0 | 22.5   | 28.4 |
| 40°   | 947.2  | 957.8  | 982.1  | 997.5  | 992.8  | 983.3 | 348.7 | 17.2  | 14.8 | 21.3   | 27.8 |
| 42.5° | 928.8  | 931.2  | 957.2  | 983.3  | 982.1  | 974.4 | 318.5 | 13.6  | 13.6 | 21.3   | 27.8 |
| 45°   | 934.7  | 924.1  | 941.3  | 971.4  | 969.7  | 959.6 | 266.4 | 10.7  | 13.0 | 20.7   | 27.8 |
| 47.5° | 909.9  | 895.1  | 924.1  | 959.6  | 953.1  | 938.3 | 220.2 | 7.7   | 12.4 | 20.1   | 27.2 |
| 50°   | 885.6  | 883.2  | 905.7  | 923.5  | 914.6  | 906.3 | 159.8 | 5.9   | 11.8 | 19.5   | 27.2 |
| 52.5° | 887.4  | 883.2  | 885.6  | 885.0  | 867.3  | 858.4 | 109.5 | 4.7   | 11.2 | 18.9   | 27.2 |
| 55°   | 822.9  | 809.8  | 797.4  | 801.0  | 802.1  | 796.2 | 62.2  | 4.1   | 10.7 | 18.9   | 26.6 |
| 57.5° | 597.9  | 594.4  | 608.0  | 646.4  | 676.6  | 680.2 | 30.2  | 4.1   | 10.1 | 18.4   | 26.0 |
| 60°   | 506.7  | 504.4  | 505.0  | 516.2  | 532.2  | 522.1 | 12.4  | 4.1   | 9.5  | 17.8   | 25.5 |
| 62.5° | 349.3  | 372.4  | 381.8  | 407.9  | 397.2  | 383.0 | 4.7   | 4.7   | 8.9  | 16.6   | 24.9 |
| 65°   | 139.7  | 139.1  | 152.1  | 164.6  | 161.0  | 150.4 | 3.6   | 4.1   | 7.7  | 15.4   | 23.1 |
| 67.5° | 32.6   | 29.6   | 25.5   | 21.9   | 18.4   | 14.8  | 3.6   | 4.1   | 7.1  | 14.2   | 21.9 |
| 70°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.0   | 3.0   | 4.1   | 6.5  | 13.0   | 20.1 |
| 72.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0   | 3.0   | 3.6   | 5.3  | 11.2   | 18.4 |
| 75°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4   | 2.4   | 3.0   | 4.1  | 9.5    | 16.0 |
| 77.5° | 1.8    | 1.8    | 1.8    | 2.4    | 1.8    | 2.4   | 2.4   | 3.0   | 3.6  | 7.7    | 13.6 |
| 80°   | 1.2    | 1.2    | 1.8    | 1.8    | 1.8    | 1.8   | 1.8   | 2.4   | 3.0  | 6.5    | 10.7 |
| 82.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2   | 1.8   | 1.8   | 2.4  | 4.7    | 7.7  |
| 85°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 1.2   | 1.2   | 1.8   | 1.8  | 3.6    | 5.3  |
| 87.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6   | 1.2   | 1.2   | 1.8  | 1.8    | 2.4  |
| 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°    | 43.2   | 43.2 |
| 2.5°  | 40.8   | 40.8 |
| 5°    | 39.7   | 39.1 |
| 7.5°  | 38.5   | 38.5 |
| 10°   | 37.9   | 37.9 |
| 12.5° | 37.3   | 37.9 |
| 15°   | 37.3   | 37.3 |
| 17.5° | 36.1   | 36.7 |
| 20°   | 35.5   | 36.1 |
| 22.5° | 34.9   | 35.5 |
| 25°   | 34.3   | 34.9 |
| 27.5° | 33.7   | 34.3 |
| 30°   | 33.2   | 34.3 |
| 32.5° | 32.6   | 33.7 |
| 35°   | 32.6   | 33.7 |
| 37.5° | 32.6   | 34.3 |
| 40°   | 32.6   | 34.3 |
| 42.5° | 32.6   | 34.3 |
| 45°   | 32.6   | 34.3 |
| 47.5° | 32.6   | 34.3 |
| 50°   | 32.6   | 34.9 |
| 52.5° | 32.6   | 34.9 |
| 55°   | 32.6   | 34.3 |
| 57.5° | 32.0   | 34.3 |
| 60°   | 32.0   | 33.7 |
| 62.5° | 31.4   | 33.2 |
| 65°   | 30.2   | 32.0 |
| 67.5° | 29.0   | 31.4 |
| 70°   | 27.2   | 29.6 |
| 72.5° | 25.5   | 27.2 |
| 75°   | 23.1   | 24.9 |
| 77.5° | 20.1   | 21.3 |
| 80°   | 16.0   | 17.8 |
| 82.5° | 12.4   | 13.6 |
| 85°   | 8.3    | 8.9  |
| 87.5° | 3.6    | 4.1  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)