

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: P1325364

Luminaire Tested: LDSQA3D05R55W2N902750DE010 3LSQCA45R 1MW\_2700K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325364  
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: LDSQA3D05R55W2N902750DE010 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**

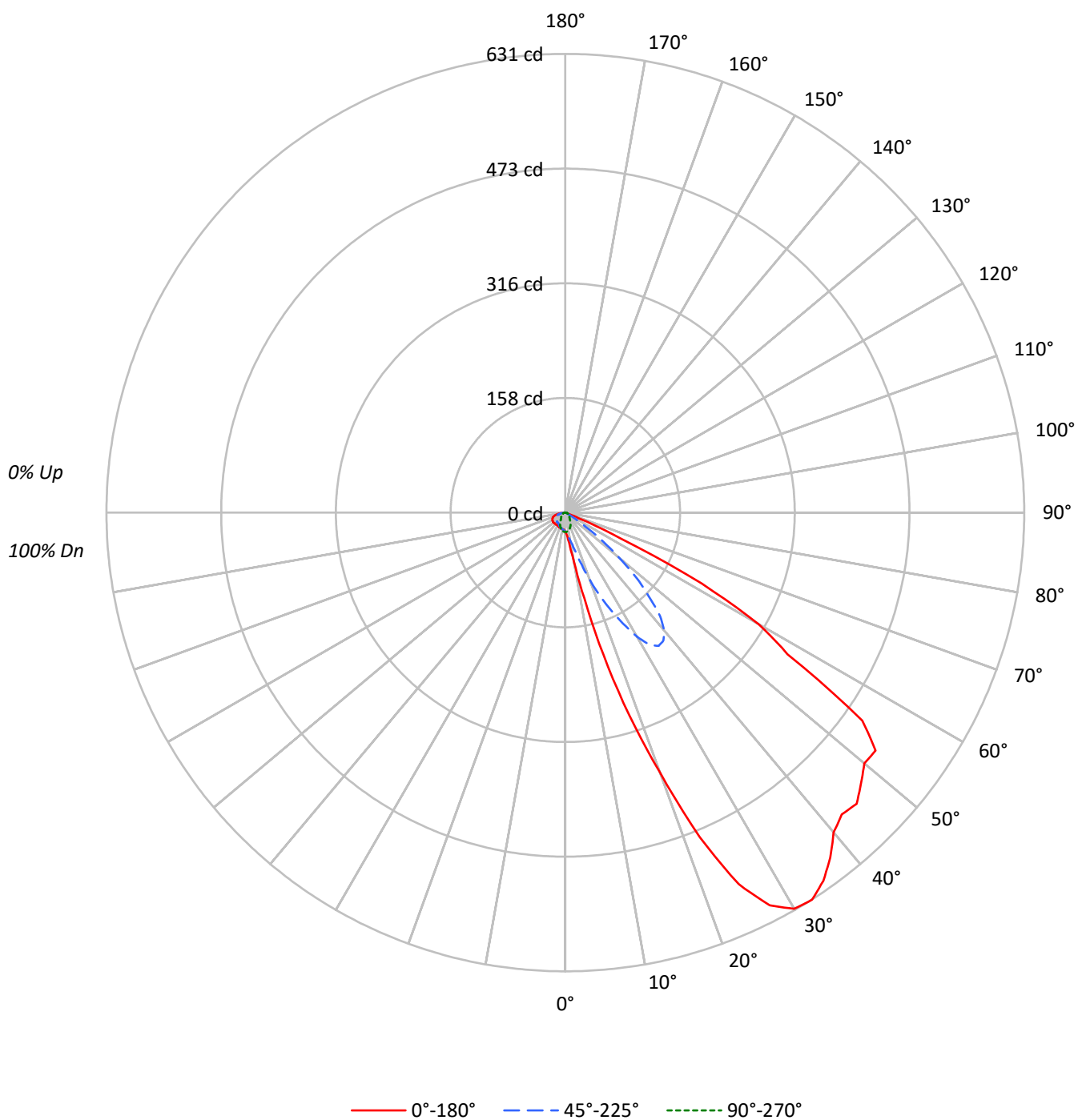
Lumens per Lamp: N/A  
Luminaire Lumens: 406.0 lumens  
Efficiency: N/A  
Efficacy: 68.8 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.9  
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



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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  | 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  | 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°  | 4512   | 4512  | 4512 | 4512 | 4512  |
| 5°  | 5774   | 5273  | 4529 | 4218 | 4097  |
| 10° | 11734  | 6715  | 4389 | 4022 | 4022  |
| 15° | 36016  | 10306 | 4101 | 3905 | 4030  |
| 20° | 69626  | 18016 | 3684 | 3812 | 4014  |
| 25° | 107156 | 28010 | 3211 | 3687 | 4029  |
| 30° | 125126 | 39157 | 2645 | 3639 | 4136  |
| 35° | 130016 | 47053 | 2187 | 3616 | 4289  |
| 40° | 129047 | 47505 | 2023 | 3799 | 4676  |
| 45° | 137952 | 39311 | 1924 | 4116 | 5066  |
| 50° | 143798 | 25963 | 1929 | 4421 | 5680  |
| 55° | 149710 | 11320 | 1952 | 4834 | 6245  |
| 60° | 105779 | 2583  | 1963 | 5304 | 7027  |
| 65° | 34516  | 897   | 1915 | 5705 | 7906  |
| 70° | 1108   | 906   | 1964 | 6143 | 9013  |
| 75° | 932    | 932   | 1664 | 6455 | 10048 |
| 80° | 694    | 1091  | 1785 | 6447 | 10711 |
| 85° | 790    | 1383  | 2174 | 6323 | 10671 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 152119 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.8    | 0.7       |
| 10°-20°   | 17.2   | 4.2       |
| 20°-30°   | 57.8   | 14.2      |
| 30°-40°   | 94.9   | 23.4      |
| 40°-50°   | 105.9  | 26.1      |
| 50°-60°   | 89.1   | 21.9      |
| 60°-70°   | 30.2   | 7.4       |
| 70°-80°   | 5.9    | 1.5       |
| 80°-90°   | 2.2    | 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°    | 77.8   | 19.2      |
| 0°-40°    | 172.7  | 42.5      |
| 0°-60°    | 367.7  | 90.6      |
| 0°-90°    | 406.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 406.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 26  | 26  | 26  | 26   | 26   |      |
| 5°  | 33  | 30  | 26  | 24   | 24   | 4    |
| 15° | 202 | 58  | 23  | 22   | 23   | 64   |
| 25° | 564 | 147 | 17  | 19   | 21   | 253  |
| 35° | 618 | 224 | 10  | 17   | 20   | 384  |
| 45° | 566 | 161 | 8   | 17   | 21   | 433  |
| 55° | 499 | 38  | 6   | 16   | 21   | 406  |
| 65° | 85  | 2   | 5   | 14   | 19   | 115  |
| 75° | 1   | 1   | 2   | 10   | 15   | 2    |
| 85° | 0   | 1   | 1   | 3    | 5    | 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°    | 26.2  | 26.2  | 26.2  | 26.2  | 26.2  | 26.2  | 26.2  | 26.2  | 26.2 | 26.2   | 26.2 |
| 2.5°  | 28.7  | 28.7  | 28.7  | 28.7  | 28.7  | 28.7  | 28.3  | 27.3  | 26.5 | 25.5   | 25.1 |
| 5°    | 33.4  | 33.4  | 33.4  | 33.0  | 33.0  | 32.3  | 30.5  | 28.0  | 26.2 | 24.8   | 24.4 |
| 7.5°  | 43.0  | 42.7  | 42.0  | 41.6  | 40.5  | 40.2  | 33.7  | 28.7  | 25.8 | 24.0   | 23.7 |
| 10°   | 67.1  | 66.4  | 65.3  | 61.3  | 57.8  | 55.2  | 38.4  | 29.1  | 25.1 | 23.3   | 23.0 |
| 12.5° | 120.9 | 119.5 | 114.1 | 105.8 | 95.8  | 90.8  | 45.9  | 29.4  | 24.0 | 22.6   | 22.6 |
| 15°   | 202.0 | 200.2 | 190.1 | 178.6 | 160.4 | 150.3 | 57.8  | 29.1  | 23.0 | 21.5   | 21.9 |
| 17.5° | 291.6 | 286.6 | 276.2 | 261.2 | 236.4 | 224.6 | 75.3  | 28.3  | 21.5 | 20.8   | 21.5 |
| 20°   | 379.9 | 378.5 | 361.2 | 340.8 | 310.3 | 294.5 | 98.3  | 27.3  | 20.1 | 19.7   | 20.8 |
| 22.5° | 483.2 | 477.1 | 458.8 | 436.9 | 395.0 | 374.2 | 123.0 | 25.8  | 18.7 | 18.7   | 20.1 |
| 25°   | 563.9 | 556.7 | 542.4 | 516.9 | 477.1 | 454.9 | 147.4 | 24.0  | 16.9 | 17.6   | 19.4 |
| 27.5° | 609.1 | 600.9 | 590.1 | 568.2 | 537.4 | 517.6 | 171.8 | 21.9  | 15.1 | 16.5   | 18.7 |
| 30°   | 629.2 | 627.1 | 619.2 | 603.0 | 574.7 | 557.1 | 196.9 | 19.4  | 13.3 | 15.4   | 18.3 |
| 32.5° | 631.4 | 632.4 | 629.2 | 618.8 | 597.3 | 582.2 | 215.6 | 17.2  | 11.8 | 14.7   | 17.6 |
| 35°   | 618.4 | 622.4 | 624.5 | 620.2 | 606.2 | 594.0 | 223.8 | 14.7  | 10.4 | 14.0   | 17.2 |
| 37.5° | 598.4 | 605.5 | 612.7 | 613.8 | 605.2 | 597.3 | 221.7 | 12.6  | 9.7  | 13.6   | 17.2 |
| 40°   | 574.0 | 580.4 | 595.1 | 604.5 | 601.6 | 595.8 | 211.3 | 10.4  | 9.0  | 12.9   | 16.9 |
| 42.5° | 562.8 | 564.3 | 580.1 | 595.8 | 595.1 | 590.5 | 193.0 | 8.3   | 8.3  | 12.9   | 16.9 |
| 45°   | 566.4 | 560.0 | 570.4 | 588.7 | 587.6 | 581.5 | 161.4 | 6.5   | 7.9  | 12.6   | 16.9 |
| 47.5° | 551.4 | 542.4 | 560.0 | 581.5 | 577.5 | 568.6 | 133.4 | 4.7   | 7.5  | 12.2   | 16.5 |
| 50°   | 536.7 | 535.2 | 548.8 | 559.6 | 554.2 | 549.2 | 96.9  | 3.6   | 7.2  | 11.8   | 16.5 |
| 52.5° | 537.7 | 535.2 | 536.7 | 536.3 | 525.5 | 520.2 | 66.4  | 2.9   | 6.8  | 11.5   | 16.5 |
| 55°   | 498.6 | 490.7 | 483.2 | 485.4 | 486.1 | 482.5 | 37.7  | 2.5   | 6.5  | 11.5   | 16.1 |
| 57.5° | 362.3 | 360.2 | 368.4 | 391.7 | 410.0 | 412.2 | 18.3  | 2.5   | 6.1  | 11.1   | 15.8 |
| 60°   | 307.1 | 305.6 | 306.0 | 312.8 | 322.5 | 316.4 | 7.5   | 2.5   | 5.7  | 10.8   | 15.4 |
| 62.5° | 211.6 | 225.6 | 231.4 | 247.2 | 240.7 | 232.1 | 2.9   | 2.9   | 5.4  | 10.0   | 15.1 |
| 65°   | 84.7  | 84.3  | 92.2  | 99.7  | 97.6  | 91.1  | 2.2   | 2.5   | 4.7  | 9.3    | 14.0 |
| 67.5° | 19.7  | 17.9  | 15.4  | 13.3  | 11.1  | 9.0   | 2.2   | 2.5   | 4.3  | 8.6    | 13.3 |
| 70°   | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   | 1.8   | 1.8   | 2.5   | 3.9  | 7.9    | 12.2 |
| 72.5° | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 2.2   | 3.2  | 6.8    | 11.1 |
| 75°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.8   | 2.5  | 5.7    | 9.7  |
| 77.5° | 1.1   | 1.1   | 1.1   | 1.4   | 1.1   | 1.4   | 1.4   | 1.8   | 2.2  | 4.7    | 8.3  |
| 80°   | 0.7   | 0.7   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.4   | 1.8  | 3.9    | 6.5  |
| 82.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 1.1   | 1.1   | 1.4  | 2.9    | 4.7  |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.7   | 0.7   | 1.1   | 1.1  | 2.2    | 3.2  |
| 87.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.7   | 0.7   | 1.1  | 1.1    | 1.4  |
| 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°    | 26.2   | 26.2 |
| 2.5°  | 24.8   | 24.8 |
| 5°    | 24.0   | 23.7 |
| 7.5°  | 23.3   | 23.3 |
| 10°   | 23.0   | 23.0 |
| 12.5° | 22.6   | 23.0 |
| 15°   | 22.6   | 22.6 |
| 17.5° | 21.9   | 22.2 |
| 20°   | 21.5   | 21.9 |
| 22.5° | 21.2   | 21.5 |
| 25°   | 20.8   | 21.2 |
| 27.5° | 20.4   | 20.8 |
| 30°   | 20.1   | 20.8 |
| 32.5° | 19.7   | 20.4 |
| 35°   | 19.7   | 20.4 |
| 37.5° | 19.7   | 20.8 |
| 40°   | 19.7   | 20.8 |
| 42.5° | 19.7   | 20.8 |
| 45°   | 19.7   | 20.8 |
| 47.5° | 19.7   | 20.8 |
| 50°   | 19.7   | 21.2 |
| 52.5° | 19.7   | 21.2 |
| 55°   | 19.7   | 20.8 |
| 57.5° | 19.4   | 20.8 |
| 60°   | 19.4   | 20.4 |
| 62.5° | 19.0   | 20.1 |
| 65°   | 18.3   | 19.4 |
| 67.5° | 17.6   | 19.0 |
| 70°   | 16.5   | 17.9 |
| 72.5° | 15.4   | 16.5 |
| 75°   | 14.0   | 15.1 |
| 77.5° | 12.2   | 12.9 |
| 80°   | 9.7    | 10.8 |
| 82.5° | 7.5    | 8.3  |
| 85°   | 5.0    | 5.4  |
| 87.5° | 2.2    | 2.5  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)