

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: P1327169

Luminaire Tested: LDSQA3D09R65W2N902765DE010 3LSQCA45R 1MB\_2700K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1327169  
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: LDSQA3D09R65W2N902765DE010 3LSQCA45R 1MB\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R65 optic, 2700K CCT AND, 90CRI ,  
3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

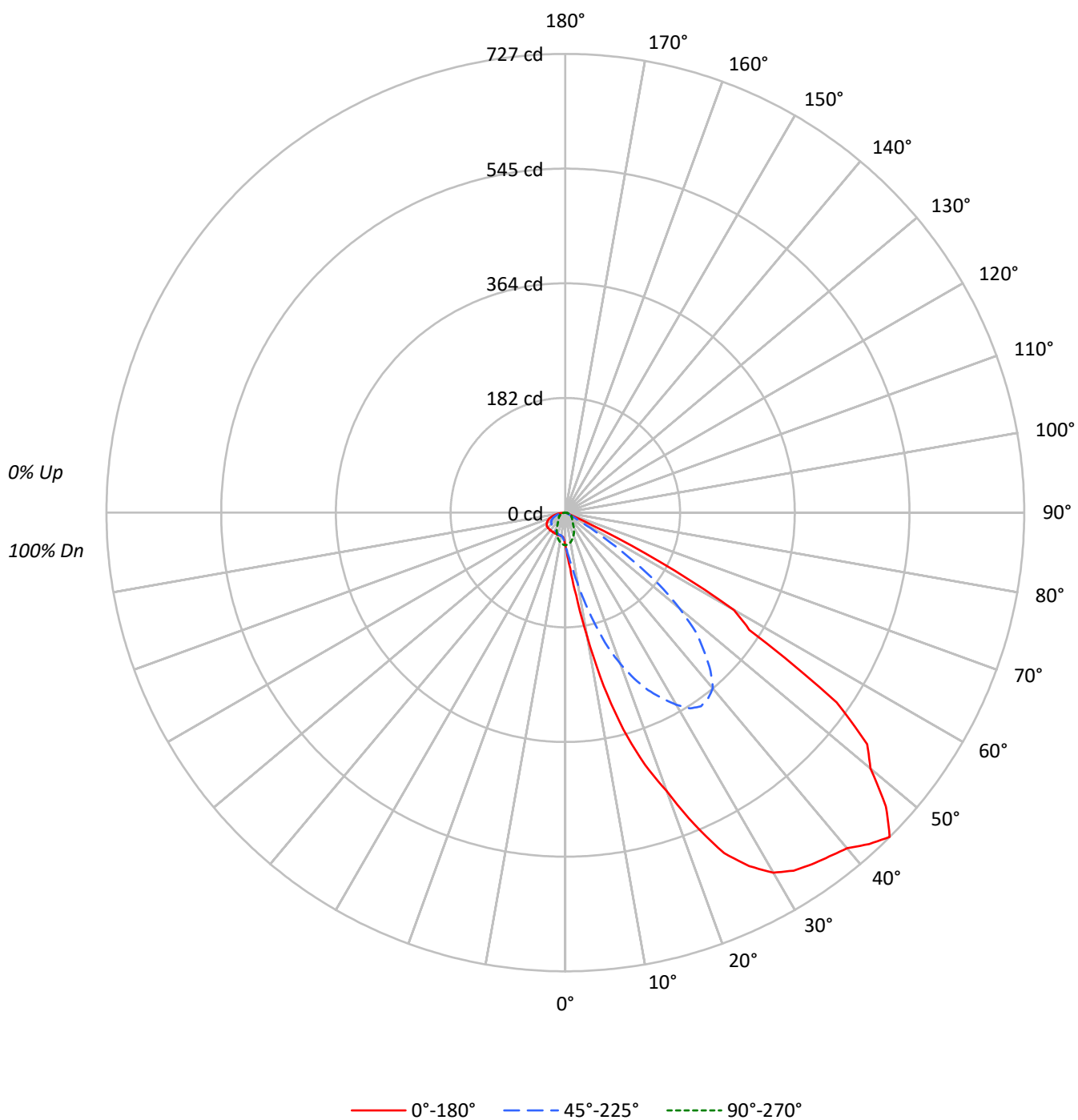
Lumens per Lamp: N/A  
Luminaire Lumens: 527.0 lumens  
Efficiency: N/A  
Efficacy: 58.6 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

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

|     | 0°     | 45°   | 90°  | 135° | 180°  |
|-----|--------|-------|------|------|-------|
| 0°  | 8835   | 8835  | 8835 | 8835 | 8835  |
| 5°  | 15438  | 12603 | 8679 | 7036 | 6760  |
| 10° | 34923  | 20321 | 8324 | 6471 | 6558  |
| 15° | 63492  | 32700 | 7720 | 6508 | 6686  |
| 20° | 86103  | 46680 | 6964 | 6488 | 6781  |
| 25° | 113161 | 58946 | 6119 | 6328 | 6936  |
| 30° | 131033 | 69881 | 5250 | 6304 | 7259  |
| 35° | 143093 | 78758 | 4436 | 6433 | 7674  |
| 40° | 156093 | 81722 | 3912 | 6767 | 8206  |
| 45° | 176970 | 75796 | 3726 | 7209 | 8890  |
| 50° | 169038 | 63285 | 3671 | 7636 | 9779  |
| 55° | 157547 | 35551 | 3813 | 8257 | 10779 |
| 60° | 106124 | 7647  | 3823 | 8749 | 11642 |
| 65° | 16382  | 1956  | 3668 | 9047 | 12714 |
| 70° | 1863   | 1863  | 3474 | 9316 | 13545 |
| 75° | 1730   | 1730  | 3194 | 9116 | 13708 |
| 80° | 1587   | 2083  | 3174 | 8430 | 13588 |
| 85° | 988    | 2174  | 3162 | 8299 | 12449 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 176970 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.2    | 1.2       |
| 10°-20°   | 33.5   | 6.4       |
| 20°-30°   | 78.7   | 14.9      |
| 30°-40°   | 118.9  | 22.6      |
| 40°-50°   | 136.7  | 25.9      |
| 50°-60°   | 108.6  | 20.6      |
| 60°-70°   | 32.5   | 6.2       |
| 70°-80°   | 8.8    | 1.7       |
| 80°-90°   | 3.0    | 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°    | 118.4  | 22.5      |
| 0°-40°    | 237.4  | 45.0      |
| 0°-60°    | 482.7  | 91.6      |
| 0°-90°    | 527.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 527.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 51  | 51  | 51  | 51   | 51   |      |
| 5°  | 89  | 73  | 50  | 41   | 39   | 12   |
| 15° | 356 | 183 | 43  | 36   | 38   | 103  |
| 25° | 596 | 310 | 32  | 33   | 36   | 272  |
| 35° | 681 | 375 | 21  | 31   | 36   | 427  |
| 45° | 727 | 311 | 15  | 30   | 36   | 540  |
| 55° | 525 | 118 | 13  | 28   | 36   | 432  |
| 65° | 40  | 5   | 9   | 22   | 31   | 90   |
| 75° | 3   | 3   | 5   | 14   | 21   | 3    |
| 85° | 0   | 1   | 2   | 4    | 6    | 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°    | 51.3  | 51.3  | 51.3  | 51.3  | 51.3  | 51.3  | 51.3  | 51.3  | 51.3 | 51.3   | 51.3 |
| 2.5°  | 65.0  | 65.5  | 65.0  | 65.0  | 64.5  | 63.9  | 60.2  | 56.0  | 51.3 | 47.6   | 44.9 |
| 5°    | 89.3  | 89.8  | 88.2  | 88.2  | 87.2  | 85.6  | 72.9  | 60.8  | 50.2 | 44.4   | 40.7 |
| 7.5°  | 132.1 | 134.2 | 131.6 | 128.4 | 122.6 | 121.5 | 90.9  | 65.5  | 49.1 | 41.2   | 38.0 |
| 10°   | 199.7 | 198.2 | 195.5 | 189.2 | 179.1 | 174.4 | 116.2 | 70.3  | 47.6 | 39.1   | 37.0 |
| 12.5° | 281.6 | 277.4 | 274.2 | 262.6 | 248.9 | 241.0 | 148.0 | 74.5  | 45.4 | 37.0   | 36.5 |
| 15°   | 356.1 | 353.0 | 345.6 | 334.5 | 317.6 | 311.2 | 183.4 | 77.1  | 43.3 | 35.4   | 36.5 |
| 17.5° | 419.0 | 415.9 | 411.6 | 400.5 | 383.1 | 373.6 | 223.0 | 78.7  | 40.7 | 34.3   | 35.9 |
| 20°   | 469.8 | 467.6 | 461.8 | 452.8 | 435.4 | 426.4 | 254.7 | 78.7  | 38.0 | 33.3   | 35.4 |
| 22.5° | 535.3 | 530.5 | 523.1 | 509.9 | 488.2 | 474.5 | 284.8 | 77.1  | 35.4 | 32.2   | 34.3 |
| 25°   | 595.5 | 592.3 | 582.8 | 567.0 | 543.7 | 530.0 | 310.2 | 74.0  | 32.2 | 30.6   | 33.3 |
| 27.5° | 631.4 | 629.3 | 620.3 | 604.0 | 578.1 | 567.5 | 331.3 | 69.2  | 29.1 | 29.1   | 32.8 |
| 30°   | 658.9 | 654.7 | 645.7 | 629.9 | 603.4 | 590.8 | 351.4 | 63.4  | 26.4 | 27.5   | 31.7 |
| 32.5° | 672.7 | 671.1 | 663.1 | 649.4 | 623.5 | 609.3 | 367.8 | 56.0  | 23.2 | 26.4   | 31.2 |
| 35°   | 680.6 | 679.0 | 672.7 | 659.4 | 635.1 | 621.4 | 374.6 | 49.1  | 21.1 | 25.4   | 30.6 |
| 37.5° | 686.9 | 685.3 | 677.4 | 664.2 | 639.9 | 625.6 | 371.5 | 41.7  | 19.0 | 24.3   | 30.1 |
| 40°   | 694.3 | 688.5 | 676.4 | 663.1 | 641.0 | 627.2 | 363.5 | 34.9  | 17.4 | 23.8   | 30.1 |
| 42.5° | 712.3 | 692.2 | 673.2 | 661.0 | 639.9 | 624.0 | 340.8 | 27.5  | 15.9 | 22.7   | 29.6 |
| 45°   | 726.6 | 691.2 | 666.8 | 657.3 | 635.7 | 617.7 | 311.2 | 20.1  | 15.3 | 22.2   | 29.6 |
| 47.5° | 689.0 | 667.4 | 656.3 | 651.0 | 627.7 | 608.2 | 280.6 | 13.7  | 14.8 | 21.7   | 29.1 |
| 50°   | 630.9 | 628.3 | 624.0 | 624.6 | 603.4 | 587.6 | 236.2 | 9.5   | 13.7 | 21.1   | 28.5 |
| 52.5° | 602.9 | 599.7 | 592.3 | 587.1 | 565.9 | 552.2 | 187.1 | 7.4   | 13.2 | 20.6   | 28.0 |
| 55°   | 524.7 | 526.8 | 518.9 | 522.1 | 515.7 | 508.9 | 118.4 | 6.9   | 12.7 | 19.6   | 27.5 |
| 57.5° | 345.6 | 356.1 | 374.6 | 396.8 | 416.9 | 430.6 | 63.9  | 6.9   | 11.6 | 19.0   | 26.4 |
| 60°   | 308.1 | 305.4 | 304.9 | 309.1 | 318.1 | 325.5 | 22.2  | 6.3   | 11.1 | 17.4   | 25.4 |
| 62.5° | 168.6 | 167.5 | 183.4 | 210.3 | 226.2 | 227.7 | 6.3   | 6.3   | 10.0 | 16.4   | 23.8 |
| 65°   | 40.2  | 41.7  | 46.5  | 58.1  | 68.7  | 75.6  | 4.8   | 5.8   | 9.0  | 15.3   | 22.2 |
| 67.5° | 6.3   | 6.9   | 6.9   | 8.5   | 9.5   | 9.5   | 4.2   | 5.3   | 7.9  | 13.7   | 20.6 |
| 70°   | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   | 4.8   | 6.9  | 12.2   | 18.5 |
| 72.5° | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.7   | 4.2   | 5.8  | 10.6   | 15.9 |
| 75°   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.7   | 4.8  | 8.5    | 13.7 |
| 77.5° | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 2.6   | 3.2   | 4.2  | 6.9    | 11.1 |
| 80°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 2.1   | 2.6   | 3.2  | 5.3    | 8.5  |
| 82.5° | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.6   | 2.1   | 2.6  | 4.2    | 6.3  |
| 85°   | 0.5   | 0.5   | 0.5   | 0.5   | 1.1   | 1.1   | 1.1   | 1.6   | 1.6  | 2.6    | 4.2  |
| 87.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 1.1   | 1.1   | 1.1  | 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°    | 51.3   | 51.3 |
| 2.5°  | 43.3   | 42.8 |
| 5°    | 39.1   | 39.1 |
| 7.5°  | 37.5   | 37.5 |
| 10°   | 37.0   | 37.5 |
| 12.5° | 37.0   | 37.5 |
| 15°   | 37.0   | 37.5 |
| 17.5° | 37.0   | 37.5 |
| 20°   | 36.5   | 37.0 |
| 22.5° | 35.9   | 36.5 |
| 25°   | 35.4   | 36.5 |
| 27.5° | 34.9   | 36.5 |
| 30°   | 34.9   | 36.5 |
| 32.5° | 34.9   | 36.5 |
| 35°   | 34.3   | 36.5 |
| 37.5° | 34.3   | 36.5 |
| 40°   | 34.3   | 36.5 |
| 42.5° | 34.3   | 36.5 |
| 45°   | 34.3   | 36.5 |
| 47.5° | 34.3   | 36.5 |
| 50°   | 34.3   | 36.5 |
| 52.5° | 33.8   | 36.5 |
| 55°   | 33.8   | 35.9 |
| 57.5° | 32.8   | 34.9 |
| 60°   | 31.7   | 33.8 |
| 62.5° | 30.6   | 32.8 |
| 65°   | 29.1   | 31.2 |
| 67.5° | 27.5   | 29.1 |
| 70°   | 24.8   | 26.9 |
| 72.5° | 22.2   | 23.8 |
| 75°   | 19.0   | 20.6 |
| 77.5° | 15.9   | 17.4 |
| 80°   | 12.7   | 13.7 |
| 82.5° | 9.0    | 10.0 |
| 85°   | 5.8    | 6.3  |
| 87.5° | 2.6    | 2.6  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)