

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: P1327179

Luminaire Tested: LDSQA3D09R65W2N902765DE010 3LSQCA45R 1MMS\_5000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1327179  
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 1MMS\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R65 optic, 5000K CCT AND, 90CRI ,  
3LSQCA45R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

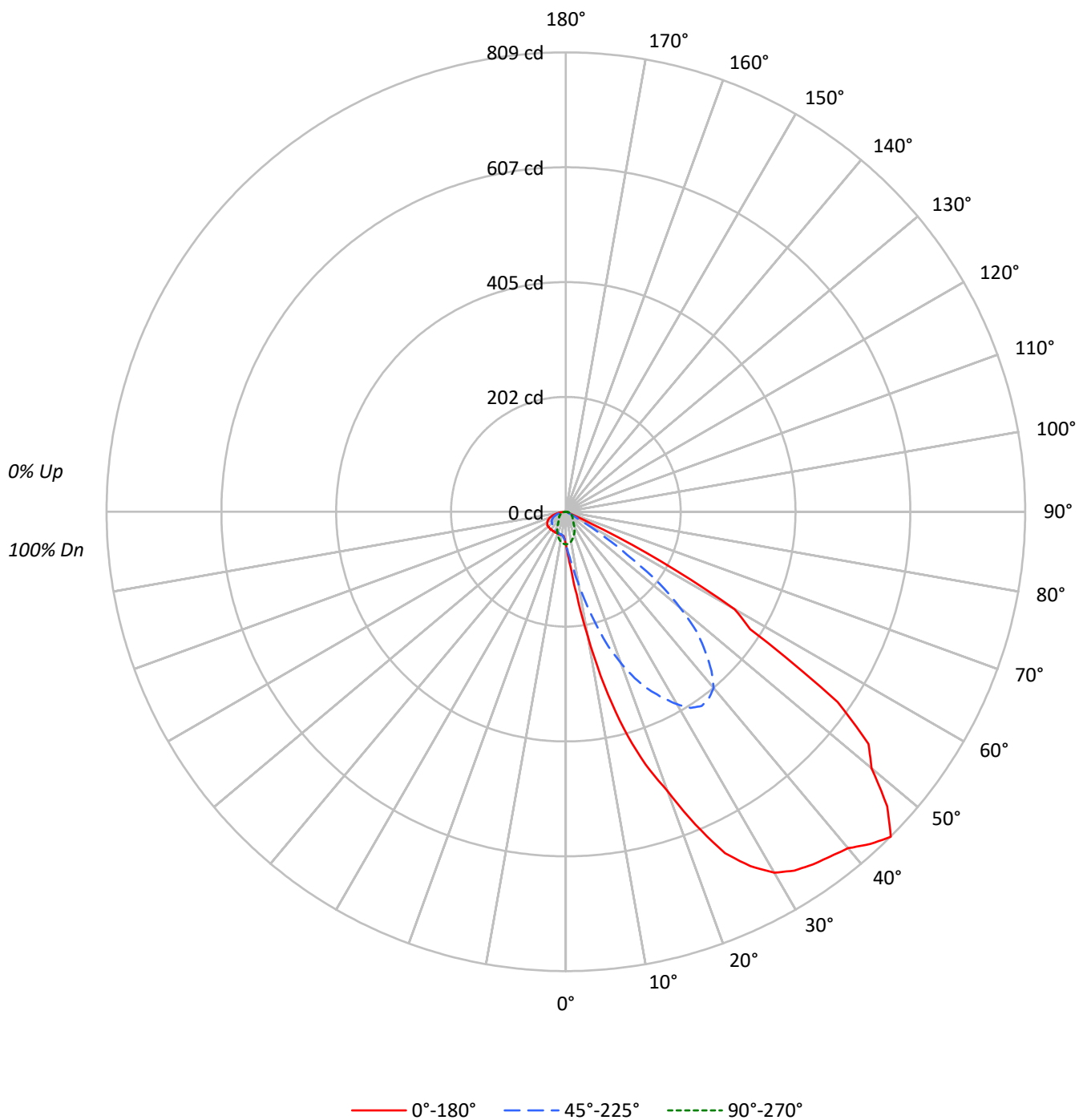
Lumens per Lamp: N/A  
Luminaire Lumens: 587.0 lumens  
Efficiency: N/A  
Efficacy: 65.2 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 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  | 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  | 64  | 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°  | 9834   | 9834  | 9834 | 9834  | 9834  |
| 5°  | 17202  | 14038 | 9664 | 7831  | 7538  |
| 10° | 38911  | 22647 | 9269 | 7205  | 7310  |
| 15° | 70731  | 36408 | 8612 | 7239  | 7453  |
| 20° | 95890  | 51995 | 7771 | 7221  | 7551  |
| 25° | 126045 | 65654 | 6822 | 7050  | 7715  |
| 30° | 145947 | 77836 | 5847 | 7020  | 8074  |
| 35° | 159387 | 87735 | 4941 | 7169  | 8536  |
| 40° | 173876 | 91030 | 4362 | 7531  | 9128  |
| 45° | 197113 | 84442 | 4165 | 8037  | 9889  |
| 50° | 188275 | 70493 | 4099 | 8520  | 10878 |
| 55° | 175473 | 39574 | 4234 | 9188  | 12010 |
| 60° | 118179 | 8508  | 4271 | 9748  | 12986 |
| 65° | 18216  | 2160  | 4075 | 10066 | 14141 |
| 70° | 2065   | 2065  | 3877 | 10373 | 15106 |
| 75° | 1930   | 1930  | 3527 | 10181 | 15305 |
| 80° | 1785   | 2380  | 3471 | 9323  | 15174 |
| 85° | 1186   | 2371  | 3557 | 9287  | 14030 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 197113 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.9    | 1.2       |
| 10°-20°   | 37.3   | 6.4       |
| 20°-30°   | 87.7   | 14.9      |
| 30°-40°   | 132.5  | 22.6      |
| 40°-50°   | 152.3  | 25.9      |
| 50°-60°   | 120.9  | 20.6      |
| 60°-70°   | 36.2   | 6.2       |
| 70°-80°   | 9.8    | 1.7       |
| 80°-90°   | 3.3    | 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°    | 131.9  | 22.5      |
| 0°-40°    | 264.4  | 45.0      |
| 0°-60°    | 537.6  | 91.6      |
| 0°-90°    | 587.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 587.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 57  | 57  | 57  | 57   | 57   |      |
| 5°  | 100 | 81  | 56  | 45   | 44   | 13   |
| 15° | 397 | 204 | 48  | 41   | 42   | 114  |
| 25° | 663 | 346 | 36  | 37   | 41   | 303  |
| 35° | 758 | 417 | 24  | 34   | 41   | 476  |
| 45° | 809 | 347 | 17  | 33   | 41   | 601  |
| 55° | 584 | 132 | 14  | 31   | 40   | 482  |
| 65° | 45  | 5   | 10  | 25   | 35   | 100  |
| 75° | 3   | 3   | 5   | 15   | 23   | 3    |
| 85° | 1   | 1   | 2   | 5    | 7    | 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°    | 57.1  | 57.1  | 57.1  | 57.1  | 57.1  | 57.1  | 57.1  | 57.1  | 57.1 | 57.1   | 57.1 |
| 2.5°  | 72.4  | 73.0  | 72.4  | 72.4  | 71.8  | 71.2  | 67.1  | 62.4  | 57.1 | 53.0   | 50.0 |
| 5°    | 99.5  | 100.1 | 98.3  | 98.3  | 97.1  | 95.3  | 81.2  | 67.7  | 55.9 | 49.4   | 45.3 |
| 7.5°  | 147.1 | 149.5 | 146.6 | 143.0 | 136.5 | 135.4 | 101.2 | 73.0  | 54.7 | 45.9   | 42.4 |
| 10°   | 222.5 | 220.7 | 217.8 | 210.7 | 199.5 | 194.2 | 129.5 | 78.3  | 53.0 | 43.6   | 41.2 |
| 12.5° | 313.7 | 309.0 | 305.5 | 292.5 | 277.2 | 268.4 | 164.8 | 83.0  | 50.6 | 41.2   | 40.6 |
| 15°   | 396.7 | 393.2 | 384.9 | 372.6 | 353.7 | 346.7 | 204.2 | 85.9  | 48.3 | 39.4   | 40.6 |
| 17.5° | 466.7 | 463.2 | 458.5 | 446.1 | 426.7 | 416.1 | 248.4 | 87.7  | 45.3 | 38.3   | 40.0 |
| 20°   | 523.2 | 520.9 | 514.4 | 504.4 | 485.0 | 475.0 | 283.7 | 87.7  | 42.4 | 37.1   | 39.4 |
| 22.5° | 596.2 | 590.9 | 582.7 | 568.0 | 543.8 | 528.5 | 317.2 | 85.9  | 39.4 | 35.9   | 38.3 |
| 25°   | 663.3 | 659.8 | 649.2 | 631.5 | 605.6 | 590.3 | 345.5 | 82.4  | 35.9 | 34.1   | 37.1 |
| 27.5° | 703.3 | 701.0 | 691.0 | 672.7 | 643.9 | 632.1 | 369.0 | 77.1  | 32.4 | 32.4   | 36.5 |
| 30°   | 733.9 | 729.2 | 719.2 | 701.6 | 672.1 | 658.0 | 391.4 | 70.6  | 29.4 | 30.6   | 35.3 |
| 32.5° | 749.2 | 747.5 | 738.6 | 723.3 | 694.5 | 678.6 | 409.6 | 62.4  | 25.9 | 29.4   | 34.7 |
| 35°   | 758.1 | 756.3 | 749.2 | 734.5 | 707.5 | 692.2 | 417.3 | 54.7  | 23.5 | 28.3   | 34.1 |
| 37.5° | 765.1 | 763.4 | 754.5 | 739.8 | 712.8 | 696.9 | 413.8 | 46.5  | 21.2 | 27.1   | 33.5 |
| 40°   | 773.4 | 766.9 | 753.4 | 738.6 | 713.9 | 698.6 | 404.9 | 38.8  | 19.4 | 26.5   | 33.5 |
| 42.5° | 793.4 | 771.0 | 749.8 | 736.3 | 712.8 | 695.1 | 379.6 | 30.6  | 17.7 | 25.3   | 33.0 |
| 45°   | 809.3 | 769.8 | 742.8 | 732.2 | 708.0 | 688.0 | 346.7 | 22.4  | 17.1 | 24.7   | 33.0 |
| 47.5° | 767.5 | 743.4 | 731.0 | 725.1 | 699.2 | 677.4 | 312.5 | 15.3  | 16.5 | 24.1   | 32.4 |
| 50°   | 702.7 | 699.8 | 695.1 | 695.7 | 672.1 | 654.5 | 263.1 | 10.6  | 15.3 | 23.5   | 31.8 |
| 52.5° | 671.6 | 668.0 | 659.8 | 653.9 | 630.4 | 615.0 | 208.4 | 8.2   | 14.7 | 23.0   | 31.2 |
| 55°   | 584.4 | 586.8 | 578.0 | 581.5 | 574.4 | 566.8 | 131.8 | 7.7   | 14.1 | 21.8   | 30.6 |
| 57.5° | 384.9 | 396.7 | 417.3 | 442.0 | 464.4 | 479.7 | 71.2  | 7.7   | 12.9 | 21.2   | 29.4 |
| 60°   | 343.1 | 340.2 | 339.6 | 344.3 | 354.3 | 362.6 | 24.7  | 7.1   | 12.4 | 19.4   | 28.3 |
| 62.5° | 187.8 | 186.6 | 204.2 | 234.2 | 251.9 | 253.7 | 7.1   | 7.1   | 11.2 | 18.2   | 26.5 |
| 65°   | 44.7  | 46.5  | 51.8  | 64.7  | 76.5  | 84.2  | 5.3   | 6.5   | 10.0 | 17.1   | 24.7 |
| 67.5° | 7.1   | 7.7   | 7.7   | 9.4   | 10.6  | 10.6  | 4.7   | 5.9   | 8.8  | 15.3   | 23.0 |
| 70°   | 4.1   | 4.1   | 4.1   | 4.1   | 4.1   | 4.1   | 4.1   | 5.3   | 7.7  | 13.5   | 20.6 |
| 72.5° | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 4.1   | 4.7   | 6.5  | 11.8   | 17.7 |
| 75°   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 4.1   | 5.3  | 9.4    | 15.3 |
| 77.5° | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   | 2.9   | 3.5   | 4.7  | 7.7    | 12.4 |
| 80°   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 2.4   | 2.9   | 3.5  | 5.9    | 9.4  |
| 82.5° | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.8   | 2.4   | 2.9  | 4.7    | 7.1  |
| 85°   | 0.6   | 0.6   | 0.6   | 0.6   | 1.2   | 1.2   | 1.2   | 1.8   | 1.8  | 2.9    | 4.7  |
| 87.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 1.2   | 1.2   | 1.2  | 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°    | 57.1   | 57.1 |
| 2.5°  | 48.3   | 47.7 |
| 5°    | 43.6   | 43.6 |
| 7.5°  | 41.8   | 41.8 |
| 10°   | 41.2   | 41.8 |
| 12.5° | 41.2   | 41.8 |
| 15°   | 41.2   | 41.8 |
| 17.5° | 41.2   | 41.8 |
| 20°   | 40.6   | 41.2 |
| 22.5° | 40.0   | 40.6 |
| 25°   | 39.4   | 40.6 |
| 27.5° | 38.8   | 40.6 |
| 30°   | 38.8   | 40.6 |
| 32.5° | 38.8   | 40.6 |
| 35°   | 38.3   | 40.6 |
| 37.5° | 38.3   | 40.6 |
| 40°   | 38.3   | 40.6 |
| 42.5° | 38.3   | 40.6 |
| 45°   | 38.3   | 40.6 |
| 47.5° | 38.3   | 40.6 |
| 50°   | 38.3   | 40.6 |
| 52.5° | 37.7   | 40.6 |
| 55°   | 37.7   | 40.0 |
| 57.5° | 36.5   | 38.8 |
| 60°   | 35.3   | 37.7 |
| 62.5° | 34.1   | 36.5 |
| 65°   | 32.4   | 34.7 |
| 67.5° | 30.6   | 32.4 |
| 70°   | 27.7   | 30.0 |
| 72.5° | 24.7   | 26.5 |
| 75°   | 21.2   | 23.0 |
| 77.5° | 17.7   | 19.4 |
| 80°   | 14.1   | 15.3 |
| 82.5° | 10.0   | 11.2 |
| 85°   | 6.5    | 7.1  |
| 87.5° | 2.9    | 2.9  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)