

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: P1316157

Luminaire Tested: LDSQA3D02R559740DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316157  
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: LDSQA3D02R559740DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

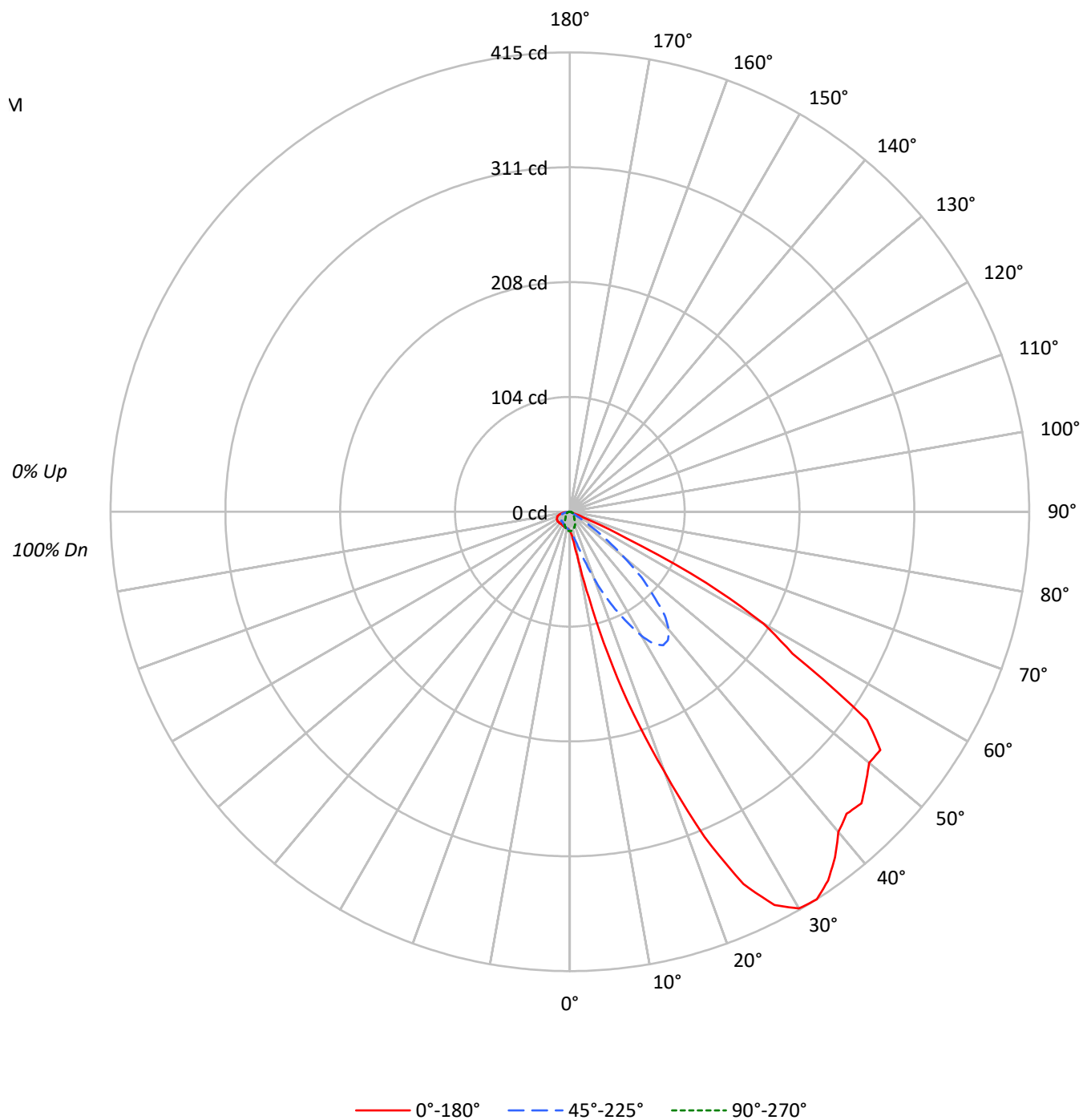
Lumens per Lamp: N/A  
Luminaire Lumens: 267.0 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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  | 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°  | 2962  | 2962  | 2962 | 2962 | 2962 |
| 5°  | 3786  | 3475  | 2974 | 2766 | 2697 |
| 10° | 7712  | 4407  | 2886 | 2641 | 2641 |
| 15° | 23678 | 6775  | 2692 | 2567 | 2657 |
| 20° | 45782 | 11840 | 2419 | 2511 | 2639 |
| 25° | 70481 | 18433 | 2109 | 2413 | 2641 |
| 30° | 82291 | 25753 | 1730 | 2386 | 2724 |
| 35° | 85507 | 30948 | 1430 | 2376 | 2817 |
| 40° | 84870 | 31250 | 1326 | 2496 | 3080 |
| 45° | 90726 | 25866 | 1267 | 2704 | 3337 |
| 50° | 94553 | 17067 | 1259 | 2920 | 3724 |
| 55° | 98456 | 7446  | 1261 | 3183 | 4114 |
| 60° | 69544 | 1722  | 1309 | 3479 | 4616 |
| 65° | 22699 | 571   | 1263 | 3749 | 5175 |
| 70° | 705   | 604   | 1309 | 4028 | 5942 |
| 75° | 599   | 599   | 1131 | 4259 | 6588 |
| 80° | 496   | 694   | 1190 | 4166 | 7042 |
| 85° | 395   | 988   | 1383 | 4150 | 6916 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 100036 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.8    | 0.7       |
| 10°-20°   | 11.3   | 4.2       |
| 20°-30°   | 38.0   | 14.2      |
| 30°-40°   | 62.4   | 23.4      |
| 40°-50°   | 69.6   | 26.1      |
| 50°-60°   | 58.6   | 21.9      |
| 60°-70°   | 19.9   | 7.4       |
| 70°-80°   | 3.9    | 1.5       |
| 80°-90°   | 1.5    | 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°    | 51.2   | 19.2      |
| 0°-40°    | 113.6  | 42.5      |
| 0°-60°    | 241.8  | 90.6      |
| 0°-90°    | 267.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 267.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 17  | 17  | 17  | 17   | 17   |      |
| 5°  | 22  | 20  | 17  | 16   | 16   | 3    |
| 15° | 133 | 38  | 15  | 14   | 15   | 42   |
| 25° | 371 | 97  | 11  | 13   | 14   | 167  |
| 35° | 407 | 147 | 7   | 11   | 13   | 253  |
| 45° | 372 | 106 | 5   | 11   | 14   | 284  |
| 55° | 328 | 25  | 4   | 11   | 14   | 267  |
| 65° | 56  | 1   | 3   | 9    | 13   | 75   |
| 75° | 1   | 1   | 2   | 6    | 10   | 1    |
| 85° | 0   | 0   | 1   | 2    | 4    | 0    |
| 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°    | 17.2  | 17.2  | 17.2  | 17.2  | 17.2  | 17.2  | 17.2  | 17.2  | 17.2 | 17.2   | 17.2 |
| 2.5°  | 18.9  | 18.9  | 18.9  | 18.9  | 18.9  | 18.9  | 18.6  | 17.9  | 17.5 | 16.7   | 16.5 |
| 5°    | 21.9  | 21.9  | 21.9  | 21.7  | 21.7  | 21.2  | 20.1  | 18.4  | 17.2 | 16.3   | 16.0 |
| 7.5°  | 28.3  | 28.1  | 27.6  | 27.4  | 26.7  | 26.4  | 22.2  | 18.9  | 17.0 | 15.8   | 15.6 |
| 10°   | 44.1  | 43.6  | 42.9  | 40.3  | 38.0  | 36.3  | 25.2  | 19.1  | 16.5 | 15.3   | 15.1 |
| 12.5° | 79.5  | 78.6  | 75.0  | 69.6  | 63.0  | 59.7  | 30.2  | 19.3  | 15.8 | 14.9   | 14.9 |
| 15°   | 132.8 | 131.6 | 125.0 | 117.5 | 105.5 | 98.8  | 38.0  | 19.1  | 15.1 | 14.2   | 14.4 |
| 17.5° | 191.8 | 188.5 | 181.7 | 171.7 | 155.5 | 147.7 | 49.5  | 18.6  | 14.2 | 13.7   | 14.2 |
| 20°   | 249.8 | 248.9 | 237.6 | 224.1 | 204.1 | 193.7 | 64.6  | 17.9  | 13.2 | 13.0   | 13.7 |
| 22.5° | 317.8 | 313.8 | 301.7 | 287.3 | 259.7 | 246.1 | 80.9  | 17.0  | 12.3 | 12.3   | 13.2 |
| 25°   | 370.9 | 366.1 | 356.7 | 339.9 | 313.8 | 299.1 | 97.0  | 15.8  | 11.1 | 11.6   | 12.7 |
| 27.5° | 400.6 | 395.2 | 388.1 | 373.7 | 353.4 | 340.4 | 113.0 | 14.4  | 9.9  | 10.9   | 12.3 |
| 30°   | 413.8 | 412.4 | 407.2 | 396.6 | 377.9 | 366.4 | 129.5 | 12.7  | 8.7  | 10.1   | 12.0 |
| 32.5° | 415.2 | 415.9 | 413.8 | 406.9 | 392.8 | 382.9 | 141.8 | 11.3  | 7.8  | 9.7    | 11.6 |
| 35°   | 406.7 | 409.3 | 410.7 | 407.9 | 398.7 | 390.7 | 147.2 | 9.7   | 6.8  | 9.2    | 11.3 |
| 37.5° | 393.5 | 398.2 | 402.9 | 403.6 | 398.0 | 392.8 | 145.8 | 8.3   | 6.4  | 9.0    | 11.3 |
| 40°   | 377.5 | 381.7 | 391.4 | 397.5 | 395.6 | 391.8 | 139.0 | 6.8   | 5.9  | 8.5    | 11.1 |
| 42.5° | 370.1 | 371.1 | 381.5 | 391.8 | 391.4 | 388.3 | 126.9 | 5.4   | 5.4  | 8.5    | 11.1 |
| 45°   | 372.5 | 368.3 | 375.1 | 387.1 | 386.4 | 382.4 | 106.2 | 4.2   | 5.2  | 8.3    | 11.1 |
| 47.5° | 362.6 | 356.7 | 368.3 | 382.4 | 379.8 | 373.9 | 87.8  | 3.1   | 5.0  | 8.0    | 10.9 |
| 50°   | 352.9 | 352.0 | 360.9 | 368.0 | 364.5 | 361.2 | 63.7  | 2.4   | 4.7  | 7.8    | 10.9 |
| 52.5° | 353.6 | 352.0 | 352.9 | 352.7 | 345.6 | 342.1 | 43.6  | 1.9   | 4.5  | 7.5    | 10.9 |
| 55°   | 327.9 | 322.7 | 317.8 | 319.2 | 319.7 | 317.3 | 24.8  | 1.7   | 4.2  | 7.5    | 10.6 |
| 57.5° | 238.3 | 236.9 | 242.3 | 257.6 | 269.6 | 271.1 | 12.0  | 1.7   | 4.0  | 7.3    | 10.4 |
| 60°   | 201.9 | 201.0 | 201.2 | 205.7 | 212.1 | 208.1 | 5.0   | 1.7   | 3.8  | 7.1    | 10.1 |
| 62.5° | 139.2 | 148.4 | 152.2 | 162.5 | 158.3 | 152.6 | 1.9   | 1.9   | 3.5  | 6.6    | 9.9  |
| 65°   | 55.7  | 55.4  | 60.6  | 65.6  | 64.2  | 59.9  | 1.4   | 1.7   | 3.1  | 6.1    | 9.2  |
| 67.5° | 13.0  | 11.8  | 10.1  | 8.7   | 7.3   | 5.9   | 1.4   | 1.7   | 2.8  | 5.7    | 8.7  |
| 70°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.2   | 1.2   | 1.7   | 2.6  | 5.2    | 8.0  |
| 72.5° | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.4   | 2.1  | 4.5    | 7.3  |
| 75°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 1.2   | 1.7  | 3.8    | 6.4  |
| 77.5° | 0.7   | 0.7   | 0.7   | 0.9   | 0.7   | 0.9   | 0.9   | 1.2   | 1.4  | 3.1    | 5.4  |
| 80°   | 0.5   | 0.5   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.9   | 1.2  | 2.6    | 4.2  |
| 82.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.7   | 0.7   | 0.9  | 1.9    | 3.1  |
| 85°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   | 0.5   | 0.7   | 0.7  | 1.4    | 2.1  |
| 87.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   | 0.5   | 0.7  | 0.7    | 0.9  |
| 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°    | 17.2   | 17.2 |
| 2.5°  | 16.3   | 16.3 |
| 5°    | 15.8   | 15.6 |
| 7.5°  | 15.3   | 15.3 |
| 10°   | 15.1   | 15.1 |
| 12.5° | 14.9   | 15.1 |
| 15°   | 14.9   | 14.9 |
| 17.5° | 14.4   | 14.6 |
| 20°   | 14.2   | 14.4 |
| 22.5° | 13.9   | 14.2 |
| 25°   | 13.7   | 13.9 |
| 27.5° | 13.4   | 13.7 |
| 30°   | 13.2   | 13.7 |
| 32.5° | 13.0   | 13.4 |
| 35°   | 13.0   | 13.4 |
| 37.5° | 13.0   | 13.7 |
| 40°   | 13.0   | 13.7 |
| 42.5° | 13.0   | 13.7 |
| 45°   | 13.0   | 13.7 |
| 47.5° | 13.0   | 13.7 |
| 50°   | 13.0   | 13.9 |
| 52.5° | 13.0   | 13.9 |
| 55°   | 13.0   | 13.7 |
| 57.5° | 12.7   | 13.7 |
| 60°   | 12.7   | 13.4 |
| 62.5° | 12.5   | 13.2 |
| 65°   | 12.0   | 12.7 |
| 67.5° | 11.6   | 12.5 |
| 70°   | 10.9   | 11.8 |
| 72.5° | 10.1   | 10.9 |
| 75°   | 9.2    | 9.9  |
| 77.5° | 8.0    | 8.5  |
| 80°   | 6.4    | 7.1  |
| 82.5° | 5.0    | 5.4  |
| 85°   | 3.3    | 3.5  |
| 87.5° | 1.4    | 1.7  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)