

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: P1318282

Luminaire Tested: LDSQA3D09R659830DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318282  
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: LDSQA3D09R659830DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

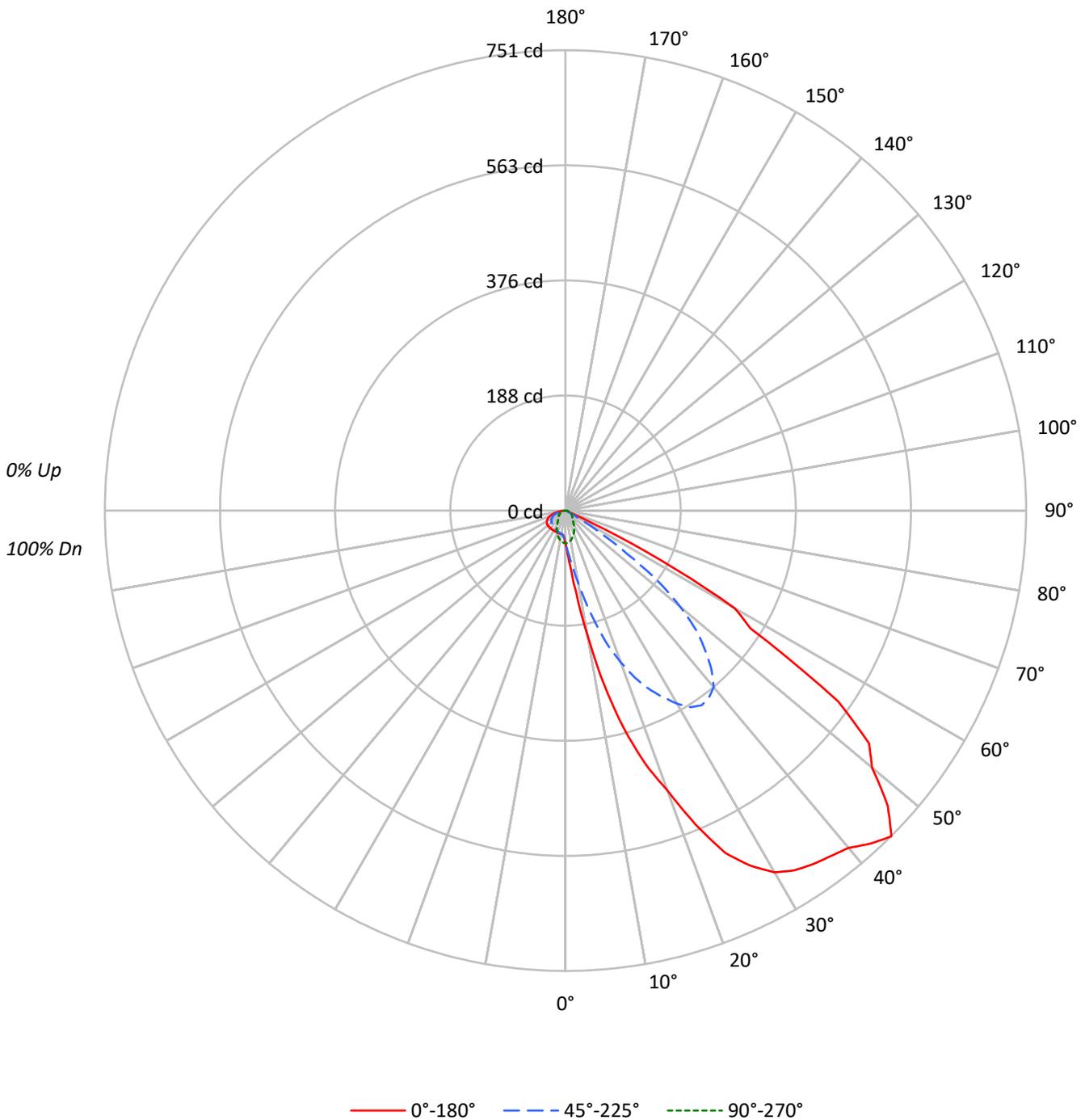
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 545.0 lumens  
Efficiency: N/A  
Efficacy: 49.5 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): 11  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 94  | 91  | 92  | 90  | 89  | 89  | 89  | 89  | 87  |
| 2   | 101 | 93  | 87  | 82  | 98  | 92  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 76  | 76  | 76  | 74  |
| 3   | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 65  | 65  | 65  | 65  | 62  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  | 67  | 61  | 56  | 64  | 59  | 55  | 55  | 55  | 55  | 53  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 47  | 47  | 47  | 45  |
| 6   | 71  | 57  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 46  | 41  | 41  | 41  | 41  | 39  |
| 7   | 65  | 52  | 43  | 37  | 63  | 51  | 42  | 36  | 49  | 42  | 36  | 48  | 41  | 36  | 46  | 40  | 36  | 36  | 36  | 36  | 34  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 31  | 31  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 28  | 28  | 28  | 26  |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  | 24  | 24  | 24  | 23  |

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

|     | 0°     | 45°   | 90°  | 135° | 180°  |
|-----|--------|-------|------|------|-------|
| 0°  | 9128   | 9128  | 9128 | 9128 | 9128  |
| 5°  | 15974  | 13035 | 8972 | 7278 | 6984  |
| 10° | 36130  | 21021 | 8604 | 6698 | 6785  |
| 15° | 65667  | 33805 | 7988 | 6722 | 6918  |
| 20° | 89035  | 48275 | 7203 | 6708 | 7019  |
| 25° | 117037 | 60961 | 6328 | 6537 | 7164  |
| 30° | 135507 | 72268 | 5429 | 6523 | 7497  |
| 35° | 147970 | 81449 | 4604 | 6665 | 7926  |
| 40° | 161421 | 84533 | 4047 | 6992 | 8476  |
| 45° | 183011 | 78402 | 3848 | 7453 | 9182  |
| 50° | 174825 | 65456 | 3805 | 7904 | 10101 |
| 55° | 162922 | 36752 | 3933 | 8527 | 11170 |
| 60° | 109740 | 7922  | 3961 | 9024 | 12056 |
| 65° | 16912  | 1997  | 3790 | 9373 | 13122 |
| 70° | 1913   | 1913  | 3575 | 9618 | 14049 |
| 75° | 1797   | 1797  | 3261 | 9449 | 14173 |
| 80° | 1587   | 2182  | 3273 | 8629 | 14083 |
| 85° | 988    | 2174  | 3162 | 8695 | 13042 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 183011 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.4    | 1.2       |
| 10°-20°   | 34.7   | 6.4       |
| 20°-30°   | 81.4   | 14.9      |
| 30°-40°   | 123.0  | 22.6      |
| 40°-50°   | 141.4  | 25.9      |
| 50°-60°   | 112.3  | 20.6      |
| 60°-70°   | 33.6   | 6.2       |
| 70°-80°   | 9.1    | 1.7       |
| 80°-90°   | 3.1    | 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°    | 122.5  | 22.5      |
| 0°-40°    | 245.5  | 45.0      |
| 0°-60°    | 499.2  | 91.6      |
| 0°-90°    | 545.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 545.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 53  | 53  | 53  | 53   | 53   |      |
| 5°  | 92  | 75  | 52  | 42   | 40   | 12   |
| 15° | 368 | 190 | 45  | 38   | 39   | 106  |
| 25° | 616 | 321 | 33  | 34   | 38   | 281  |
| 35° | 704 | 387 | 22  | 32   | 38   | 442  |
| 45° | 751 | 322 | 16  | 31   | 38   | 558  |
| 55° | 543 | 122 | 13  | 28   | 37   | 447  |
| 65° | 42  | 5   | 9   | 23   | 32   | 93   |
| 75° | 3   | 3   | 5   | 14   | 21   | 3    |
| 85° | 0   | 1   | 2   | 4    | 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°    | 53.0  | 53.0  | 53.0  | 53.0  | 53.0  | 53.0  | 53.0  | 53.0  | 53.0 | 53.0   | 53.0 |
| 2.5°  | 67.2  | 67.8  | 67.2  | 67.2  | 66.7  | 66.1  | 62.3  | 57.9  | 53.0 | 49.2   | 46.4 |
| 5°    | 92.4  | 92.9  | 91.3  | 91.3  | 90.2  | 88.5  | 75.4  | 62.8  | 51.9 | 45.9   | 42.1 |
| 7.5°  | 136.6 | 138.8 | 136.1 | 132.8 | 126.8 | 125.7 | 94.0  | 67.8  | 50.8 | 42.6   | 39.3 |
| 10°   | 206.6 | 204.9 | 202.2 | 195.6 | 185.2 | 180.3 | 120.2 | 72.7  | 49.2 | 40.4   | 38.3 |
| 12.5° | 291.3 | 286.9 | 283.6 | 271.6 | 257.4 | 249.2 | 153.0 | 77.0  | 47.0 | 38.3   | 37.7 |
| 15°   | 368.3 | 365.0 | 357.4 | 345.9 | 328.4 | 321.9 | 189.6 | 79.8  | 44.8 | 36.6   | 37.7 |
| 17.5° | 433.3 | 430.1 | 425.7 | 414.2 | 396.2 | 386.3 | 230.6 | 81.4  | 42.1 | 35.5   | 37.2 |
| 20°   | 485.8 | 483.6 | 477.6 | 468.3 | 450.3 | 441.0 | 263.4 | 81.4  | 39.3 | 34.4   | 36.6 |
| 22.5° | 553.6 | 548.6 | 541.0 | 527.3 | 504.9 | 490.7 | 294.5 | 79.8  | 36.6 | 33.3   | 35.5 |
| 25°   | 615.9 | 612.6 | 602.7 | 586.3 | 562.3 | 548.1 | 320.8 | 76.5  | 33.3 | 31.7   | 34.4 |
| 27.5° | 653.0 | 650.8 | 641.5 | 624.6 | 597.8 | 586.9 | 342.6 | 71.6  | 30.1 | 30.1   | 33.9 |
| 30°   | 681.4 | 677.1 | 667.8 | 651.4 | 624.0 | 610.9 | 363.4 | 65.6  | 27.3 | 28.4   | 32.8 |
| 32.5° | 695.6 | 694.0 | 685.8 | 671.6 | 644.8 | 630.1 | 380.3 | 57.9  | 24.0 | 27.3   | 32.2 |
| 35°   | 703.8 | 702.2 | 695.6 | 682.0 | 656.8 | 642.6 | 387.4 | 50.8  | 21.9 | 26.2   | 31.7 |
| 37.5° | 710.4 | 708.7 | 700.6 | 686.9 | 661.8 | 647.0 | 384.2 | 43.2  | 19.7 | 25.1   | 31.1 |
| 40°   | 718.0 | 712.0 | 699.5 | 685.8 | 662.8 | 648.6 | 376.0 | 36.1  | 18.0 | 24.6   | 31.1 |
| 42.5° | 736.6 | 715.9 | 696.2 | 683.6 | 661.8 | 645.4 | 352.5 | 28.4  | 16.4 | 23.5   | 30.6 |
| 45°   | 751.4 | 714.8 | 689.6 | 679.8 | 657.4 | 638.8 | 321.9 | 20.8  | 15.8 | 23.0   | 30.6 |
| 47.5° | 712.6 | 690.2 | 678.7 | 673.2 | 649.2 | 629.0 | 290.2 | 14.2  | 15.3 | 22.4   | 30.1 |
| 50°   | 652.5 | 649.7 | 645.4 | 645.9 | 624.0 | 607.7 | 244.3 | 9.8   | 14.2 | 21.9   | 29.5 |
| 52.5° | 623.5 | 620.2 | 612.6 | 607.1 | 585.3 | 571.0 | 193.4 | 7.7   | 13.7 | 21.3   | 29.0 |
| 55°   | 542.6 | 544.8 | 536.6 | 539.9 | 533.3 | 526.2 | 122.4 | 7.1   | 13.1 | 20.2   | 28.4 |
| 57.5° | 357.4 | 368.3 | 387.4 | 410.4 | 431.2 | 445.4 | 66.1  | 7.1   | 12.0 | 19.7   | 27.3 |
| 60°   | 318.6 | 315.8 | 315.3 | 319.7 | 329.0 | 336.6 | 23.0  | 6.6   | 11.5 | 18.0   | 26.2 |
| 62.5° | 174.3 | 173.2 | 189.6 | 217.5 | 233.9 | 235.5 | 6.6   | 6.6   | 10.4 | 16.9   | 24.6 |
| 65°   | 41.5  | 43.2  | 48.1  | 60.1  | 71.0  | 78.1  | 4.9   | 6.0   | 9.3  | 15.8   | 23.0 |
| 67.5° | 6.6   | 7.1   | 7.1   | 8.7   | 9.8   | 9.8   | 4.4   | 5.5   | 8.2  | 14.2   | 21.3 |
| 70°   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 4.9   | 7.1  | 12.6   | 19.1 |
| 72.5° | 3.3   | 3.3   | 3.3   | 3.3   | 3.3   | 3.3   | 3.8   | 4.4   | 6.0  | 10.9   | 16.4 |
| 75°   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 3.8   | 4.9  | 8.7    | 14.2 |
| 77.5° | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   | 2.7   | 3.3   | 4.4  | 7.1    | 11.5 |
| 80°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 2.2   | 2.7   | 3.3  | 5.5    | 8.7  |
| 82.5° | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.6   | 2.2   | 2.7  | 4.4    | 6.6  |
| 85°   | 0.5   | 0.5   | 0.5   | 0.5   | 1.1   | 1.1   | 1.1   | 1.6   | 1.6  | 2.7    | 4.4  |
| 87.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 1.1   | 1.1   | 1.1  | 1.6    | 2.2  |
| 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°    | 53.0   | 53.0 |
| 2.5°  | 44.8   | 44.3 |
| 5°    | 40.4   | 40.4 |
| 7.5°  | 38.8   | 38.8 |
| 10°   | 38.3   | 38.8 |
| 12.5° | 38.3   | 38.8 |
| 15°   | 38.3   | 38.8 |
| 17.5° | 38.3   | 38.8 |
| 20°   | 37.7   | 38.3 |
| 22.5° | 37.2   | 37.7 |
| 25°   | 36.6   | 37.7 |
| 27.5° | 36.1   | 37.7 |
| 30°   | 36.1   | 37.7 |
| 32.5° | 36.1   | 37.7 |
| 35°   | 35.5   | 37.7 |
| 37.5° | 35.5   | 37.7 |
| 40°   | 35.5   | 37.7 |
| 42.5° | 35.5   | 37.7 |
| 45°   | 35.5   | 37.7 |
| 47.5° | 35.5   | 37.7 |
| 50°   | 35.5   | 37.7 |
| 52.5° | 35.0   | 37.7 |
| 55°   | 35.0   | 37.2 |
| 57.5° | 33.9   | 36.1 |
| 60°   | 32.8   | 35.0 |
| 62.5° | 31.7   | 33.9 |
| 65°   | 30.1   | 32.2 |
| 67.5° | 28.4   | 30.1 |
| 70°   | 25.7   | 27.9 |
| 72.5° | 23.0   | 24.6 |
| 75°   | 19.7   | 21.3 |
| 77.5° | 16.4   | 18.0 |
| 80°   | 13.1   | 14.2 |
| 82.5° | 9.3    | 10.4 |
| 85°   | 6.0    | 6.6  |
| 87.5° | 2.7    | 2.7  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)