

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: P1314382

Luminaire Tested: LDSQA3D05R559730DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314382  
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: LDSQA3D05R559730DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

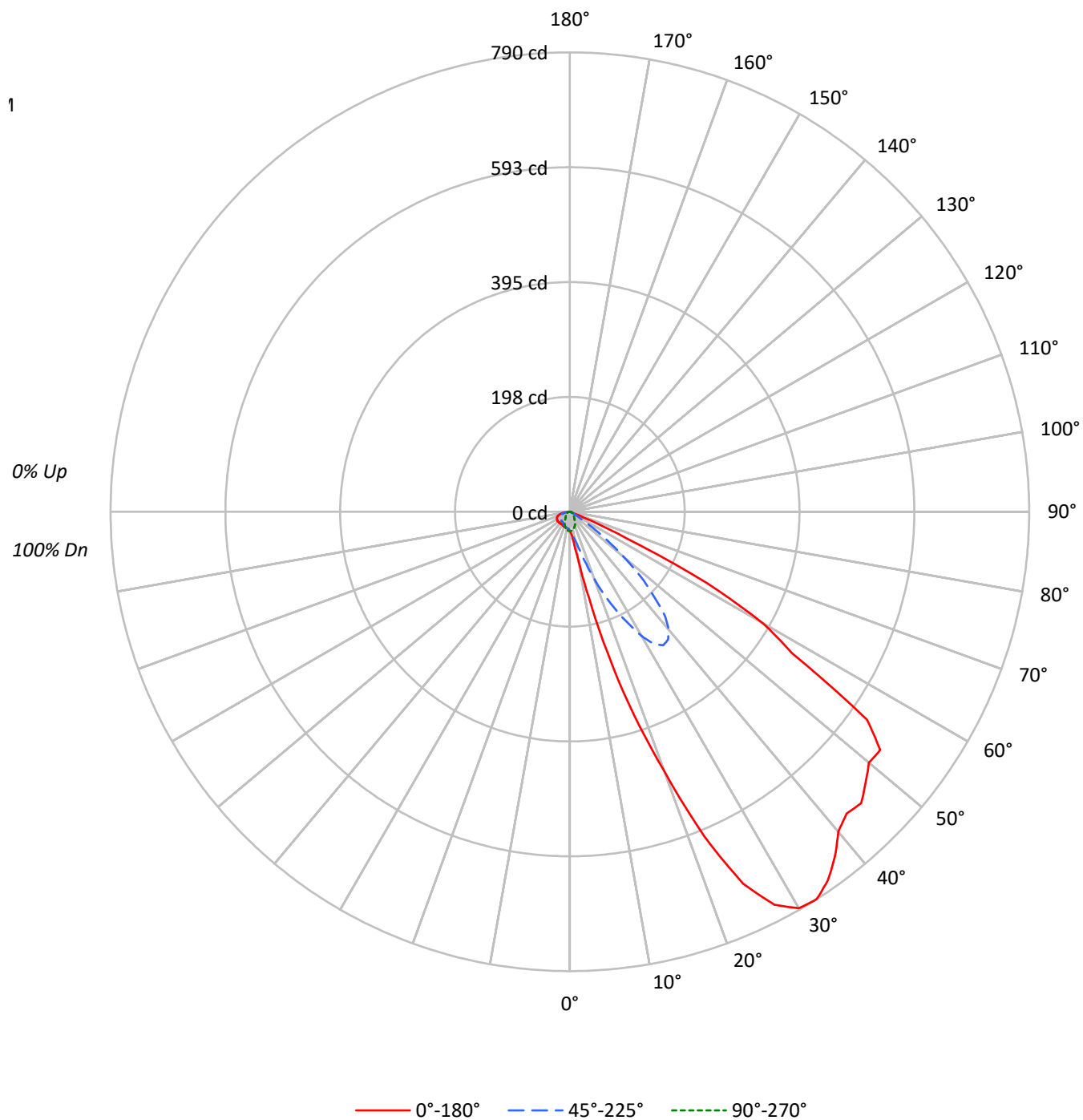
Lumens per Lamp: N/A  
Luminaire Lumens: 508.0 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 95  | 93  | 91  | 92  | 90  | 88  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 71  | 65  | 74  | 69  | 64  | 72  | 67  | 63  |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 65  | 59  | 54  | 63  | 58  | 54  |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 47  | 58  | 51  | 46  | 56  | 50  | 46  |
| 6   | 69  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  | 51  | 45  | 39  | 50  | 44  | 39  |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 43  | 35  | 30  | 41  | 35  | 29  | 40  | 34  | 29  |
| 9   | 54  | 40  | 32  | 26  | 53  | 40  | 32  | 26  | 39  | 31  | 26  | 38  | 31  | 26  | 36  | 30  | 26  |
| 10  | 50  | 37  | 28  | 23  | 49  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 33  | 27  | 23  |

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

|     | 0°     | 45°   | 90°  | 135° | 180°  |
|-----|--------|-------|------|------|-------|
| 0°  | 5649   | 5649  | 5649 | 5649 | 5649  |
| 5°  | 7209   | 6604  | 5670 | 5273 | 5117  |
| 10° | 14672  | 8394  | 5491 | 5019 | 5019  |
| 15° | 45056  | 12891 | 5117 | 4885 | 5046  |
| 20° | 87111  | 22543 | 4600 | 4765 | 5022  |
| 25° | 134083 | 35060 | 4010 | 4599 | 5036  |
| 30° | 156567 | 49000 | 3301 | 4554 | 5171  |
| 35° | 162688 | 58890 | 2733 | 4520 | 5382  |
| 40° | 161466 | 59443 | 2518 | 4744 | 5845  |
| 45° | 172611 | 49199 | 2411 | 5139 | 6333  |
| 50° | 179916 | 32473 | 2411 | 5519 | 7100  |
| 55° | 187333 | 14142 | 2432 | 6065 | 7807  |
| 60° | 132336 | 3238  | 2480 | 6648 | 8818  |
| 65° | 43156  | 1100  | 2364 | 7131 | 9862  |
| 70° | 1360   | 1108  | 2467 | 7704 | 11279 |
| 75° | 1198   | 1198  | 2063 | 8052 | 12576 |
| 80° | 893    | 1289  | 2182 | 8034 | 13389 |
| 85° | 790    | 1778  | 2569 | 7904 | 13239 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 190340 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.5    | 0.7       |
| 10°-20°   | 21.6   | 4.2       |
| 20°-30°   | 72.3   | 14.2      |
| 30°-40°   | 118.7  | 23.4      |
| 40°-50°   | 132.4  | 26.1      |
| 50°-60°   | 111.5  | 21.9      |
| 60°-70°   | 37.8   | 7.4       |
| 70°-80°   | 7.4    | 1.5       |
| 80°-90°   | 2.8    | 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°    | 97.3   | 19.2      |
| 0°-40°    | 216.1  | 42.5      |
| 0°-60°    | 460.0  | 90.6      |
| 0°-90°    | 508.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 508.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 33  | 33  | 33  | 33   | 33   |      |
| 5°  | 42  | 38  | 33  | 30   | 30   | 5    |
| 15° | 253 | 72  | 29  | 27   | 28   | 80   |
| 25° | 706 | 184 | 21  | 24   | 26   | 317  |
| 35° | 774 | 280 | 13  | 22   | 26   | 480  |
| 45° | 709 | 202 | 10  | 21   | 26   | 541  |
| 55° | 624 | 47  | 8   | 20   | 26   | 508  |
| 65° | 106 | 3   | 6   | 18   | 24   | 143  |
| 75° | 2   | 2   | 3   | 12   | 19   | 2    |
| 85° | 0   | 1   | 1   | 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°    | 32.8  | 32.8  | 32.8  | 32.8  | 32.8  | 32.8  | 32.8  | 32.8  | 32.8 | 32.8   | 32.8 |
| 2.5°  | 35.9  | 35.9  | 35.9  | 35.9  | 35.9  | 35.9  | 35.5  | 34.1  | 33.2 | 31.9   | 31.4 |
| 5°    | 41.7  | 41.7  | 41.7  | 41.3  | 41.3  | 40.4  | 38.2  | 35.0  | 32.8 | 31.0   | 30.5 |
| 7.5°  | 53.9  | 53.4  | 52.5  | 52.1  | 50.7  | 50.3  | 42.2  | 35.9  | 32.3 | 30.1   | 29.6 |
| 10°   | 83.9  | 83.0  | 81.7  | 76.8  | 72.3  | 69.1  | 48.0  | 36.4  | 31.4 | 29.2   | 28.7 |
| 12.5° | 151.3 | 149.5 | 142.7 | 132.4 | 119.8 | 113.6 | 57.5  | 36.8  | 30.1 | 28.3   | 28.3 |
| 15°   | 252.7 | 250.5 | 237.9 | 223.5 | 200.6 | 188.1 | 72.3  | 36.4  | 28.7 | 26.9   | 27.4 |
| 17.5° | 364.9 | 358.6 | 345.6 | 326.8 | 295.8 | 281.0 | 94.3  | 35.5  | 26.9 | 26.0   | 26.9 |
| 20°   | 475.3 | 473.5 | 452.0 | 426.4 | 388.3 | 368.5 | 123.0 | 34.1  | 25.1 | 24.7   | 26.0 |
| 22.5° | 604.6 | 597.0 | 574.1 | 546.7 | 494.2 | 468.1 | 154.0 | 32.3  | 23.3 | 23.3   | 25.1 |
| 25°   | 705.6 | 696.6 | 678.7 | 646.8 | 597.0 | 569.1 | 184.5 | 30.1  | 21.1 | 22.0   | 24.2 |
| 27.5° | 762.1 | 751.8 | 738.4 | 711.0 | 672.4 | 647.7 | 215.0 | 27.4  | 18.9 | 20.6   | 23.3 |
| 30°   | 787.3 | 784.6 | 774.7 | 754.5 | 719.1 | 697.1 | 246.4 | 24.2  | 16.6 | 19.3   | 22.9 |
| 32.5° | 790.0 | 791.3 | 787.3 | 774.3 | 747.3 | 728.5 | 269.8 | 21.5  | 14.8 | 18.4   | 22.0 |
| 35°   | 773.8 | 778.8 | 781.4 | 776.1 | 758.6 | 743.3 | 280.1 | 18.4  | 13.0 | 17.5   | 21.5 |
| 37.5° | 748.7 | 757.7 | 766.6 | 768.0 | 757.2 | 747.3 | 277.4 | 15.7  | 12.1 | 17.1   | 21.5 |
| 40°   | 718.2 | 726.2 | 744.6 | 756.3 | 752.7 | 745.5 | 264.4 | 13.0  | 11.2 | 16.2   | 21.1 |
| 42.5° | 704.2 | 706.0 | 725.8 | 745.5 | 744.6 | 738.8 | 241.5 | 10.3  | 10.3 | 16.2   | 21.1 |
| 45°   | 708.7 | 700.7 | 713.7 | 736.6 | 735.2 | 727.6 | 202.0 | 8.1   | 9.9  | 15.7   | 21.1 |
| 47.5° | 689.9 | 678.7 | 700.7 | 727.6 | 722.6 | 711.4 | 167.0 | 5.8   | 9.4  | 15.3   | 20.6 |
| 50°   | 671.5 | 669.7 | 686.7 | 700.2 | 693.5 | 687.2 | 121.2 | 4.5   | 9.0  | 14.8   | 20.6 |
| 52.5° | 672.8 | 669.7 | 671.5 | 671.0 | 657.6 | 650.8 | 83.0  | 3.6   | 8.5  | 14.4   | 20.6 |
| 55°   | 623.9 | 614.0 | 604.6 | 607.3 | 608.2 | 603.7 | 47.1  | 3.1   | 8.1  | 14.4   | 20.2 |
| 57.5° | 453.3 | 450.6 | 461.0 | 490.1 | 513.0 | 515.7 | 22.9  | 3.1   | 7.6  | 13.9   | 19.7 |
| 60°   | 384.2 | 382.4 | 382.9 | 391.4 | 403.5 | 395.9 | 9.4   | 3.1   | 7.2  | 13.5   | 19.3 |
| 62.5° | 264.8 | 282.3 | 289.5 | 309.3 | 301.2 | 290.4 | 3.6   | 3.6   | 6.7  | 12.6   | 18.9 |
| 65°   | 105.9 | 105.5 | 115.4 | 124.8 | 122.1 | 114.0 | 2.7   | 3.1   | 5.8  | 11.7   | 17.5 |
| 67.5° | 24.7  | 22.4  | 19.3  | 16.6  | 13.9  | 11.2  | 2.7   | 3.1   | 5.4  | 10.8   | 16.6 |
| 70°   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 2.2   | 2.2   | 3.1   | 4.9  | 9.9    | 15.3 |
| 72.5° | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   | 2.7   | 4.0  | 8.5    | 13.9 |
| 75°   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 2.2   | 3.1  | 7.2    | 12.1 |
| 77.5° | 1.3   | 1.3   | 1.3   | 1.8   | 1.3   | 1.8   | 1.8   | 2.2   | 2.7  | 5.8    | 10.3 |
| 80°   | 0.9   | 0.9   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.8   | 2.2  | 4.9    | 8.1  |
| 82.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 1.3   | 1.3   | 1.8  | 3.6    | 5.8  |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.9   | 0.9   | 1.3   | 1.3  | 2.7    | 4.0  |
| 87.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.9   | 0.9   | 1.3  | 1.3    | 1.8  |
| 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°    | 32.8   | 32.8 |
| 2.5°  | 31.0   | 31.0 |
| 5°    | 30.1   | 29.6 |
| 7.5°  | 29.2   | 29.2 |
| 10°   | 28.7   | 28.7 |
| 12.5° | 28.3   | 28.7 |
| 15°   | 28.3   | 28.3 |
| 17.5° | 27.4   | 27.8 |
| 20°   | 26.9   | 27.4 |
| 22.5° | 26.5   | 26.9 |
| 25°   | 26.0   | 26.5 |
| 27.5° | 25.6   | 26.0 |
| 30°   | 25.1   | 26.0 |
| 32.5° | 24.7   | 25.6 |
| 35°   | 24.7   | 25.6 |
| 37.5° | 24.7   | 26.0 |
| 40°   | 24.7   | 26.0 |
| 42.5° | 24.7   | 26.0 |
| 45°   | 24.7   | 26.0 |
| 47.5° | 24.7   | 26.0 |
| 50°   | 24.7   | 26.5 |
| 52.5° | 24.7   | 26.5 |
| 55°   | 24.7   | 26.0 |
| 57.5° | 24.2   | 26.0 |
| 60°   | 24.2   | 25.6 |
| 62.5° | 23.8   | 25.1 |
| 65°   | 22.9   | 24.2 |
| 67.5° | 22.0   | 23.8 |
| 70°   | 20.6   | 22.4 |
| 72.5° | 19.3   | 20.6 |
| 75°   | 17.5   | 18.9 |
| 77.5° | 15.3   | 16.2 |
| 80°   | 12.1   | 13.5 |
| 82.5° | 9.4    | 10.3 |
| 85°   | 6.3    | 6.7  |
| 87.5° | 2.7    | 3.1  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)