

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: P1308833

Luminaire Tested: LDSQA3D02R709030DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308833  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R709030DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

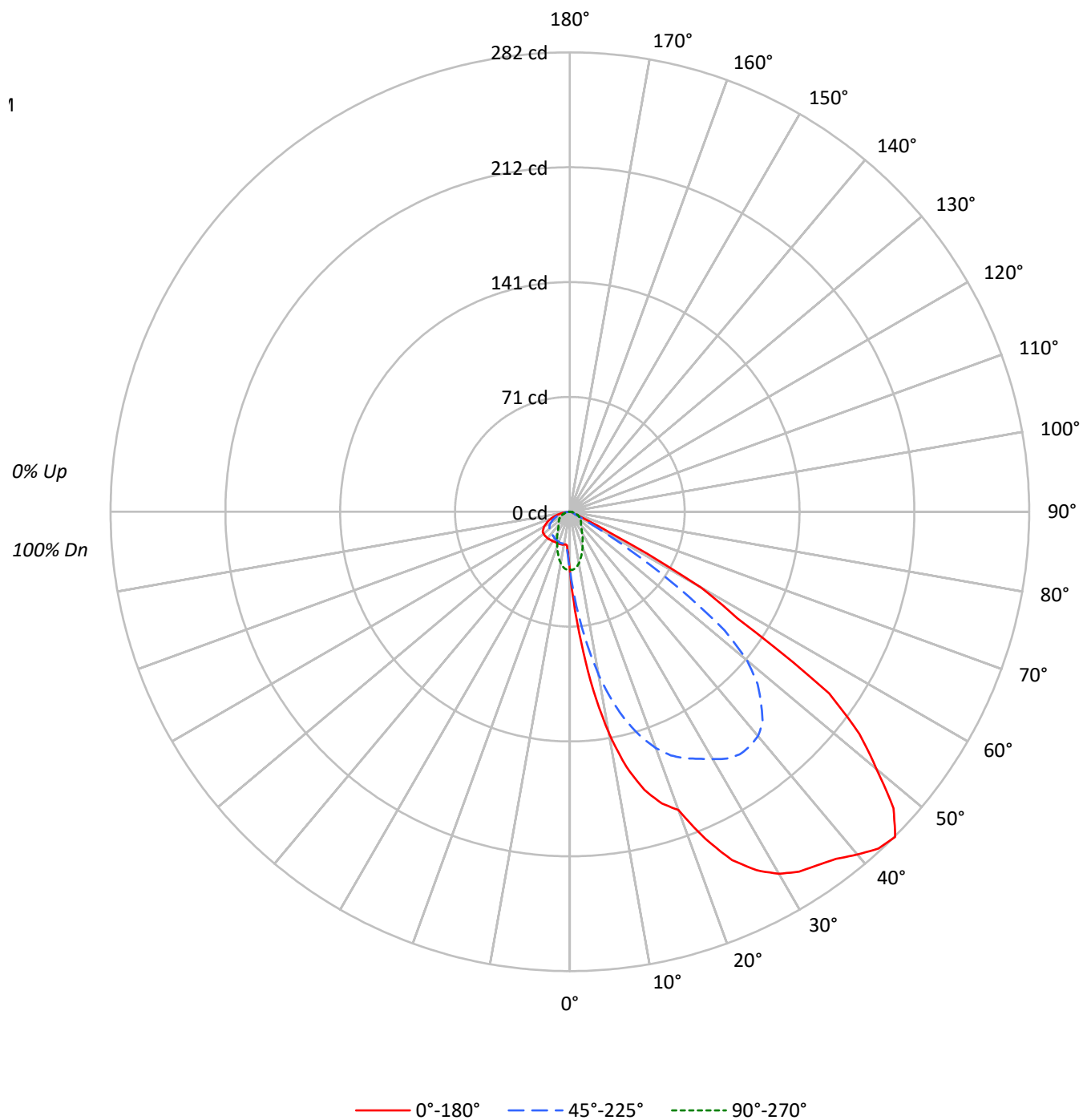
Lumens per Lamp: N/A  
Luminaire Lumens: 244.0 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |
| 2   | 101 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  | 86  | 82  | 78  | 83  | 79  | 77  | 75  |    |    |
| 3   | 93  | 83  | 76  | 70  | 90  | 82  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 69  | 66  | 64  |    |    |
| 4   | 85  | 74  | 66  | 59  | 83  | 72  | 65  | 59  | 70  | 63  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 54  |    |    |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 51  | 63  | 55  | 50  | 61  | 54  | 49  | 59  | 53  | 49  | 47  |    |    |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 35  |    |    |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |    |    |
| 9   | 57  | 44  | 35  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 29  | 28  |    |    |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  | 37  | 31  | 26  | 25  |    |    |

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

|     | 0°    | 45°   | 90°  | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0°  | 6114  | 6114  | 6114 | 6114 | 6114 |
| 5°  | 13934 | 11151 | 6068 | 3838 | 3579 |
| 10° | 24133 | 17715 | 5614 | 3498 | 3568 |
| 15° | 31505 | 23660 | 4903 | 3566 | 3691 |
| 20° | 35702 | 28279 | 4197 | 3611 | 3830 |
| 25° | 44827 | 31734 | 3515 | 3649 | 3934 |
| 30° | 51029 | 34861 | 3003 | 3719 | 4156 |
| 35° | 55694 | 38223 | 2607 | 3784 | 4394 |
| 40° | 61736 | 40400 | 2406 | 3934 | 4766 |
| 45° | 68781 | 40431 | 2363 | 4141 | 5163 |
| 50° | 65884 | 38019 | 2358 | 4367 | 5600 |
| 55° | 58341 | 24621 | 2402 | 4594 | 6065 |
| 60° | 31965 | 5270  | 2446 | 4684 | 6303 |
| 65° | 2282  | 1304  | 2364 | 4646 | 6357 |
| 70° | 1108  | 1209  | 2216 | 4431 | 6143 |
| 75° | 998   | 1264  | 2129 | 4192 | 5656 |
| 80° | 992   | 1190  | 1884 | 3868 | 5356 |
| 85° | 988   | 1383  | 1976 | 3359 | 4742 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 68781 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.6    | 1.9       |
| 10°-20°   | 19.8   | 8.1       |
| 20°-30°   | 38.0   | 15.6      |
| 30°-40°   | 53.8   | 22.0      |
| 40°-50°   | 60.9   | 24.9      |
| 50°-60°   | 48.2   | 19.8      |
| 60°-70°   | 13.0   | 5.3       |
| 70°-80°   | 4.3    | 1.8       |
| 80°-90°   | 1.3    | 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°    | 62.5   | 25.6      |
| 0°-40°    | 116.3  | 47.7      |
| 0°-60°    | 225.4  | 92.4      |
| 0°-90°    | 244.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 244.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 36  | 36  | 36  | 36   | 36   |      |
| 5°  | 81  | 64  | 35  | 22   | 21   | 10   |
| 15° | 177 | 133 | 28  | 20   | 21   | 50   |
| 25° | 236 | 167 | 18  | 19   | 21   | 108  |
| 35° | 265 | 182 | 12  | 18   | 21   | 167  |
| 45° | 282 | 166 | 10  | 17   | 21   | 211  |
| 55° | 194 | 82  | 8   | 15   | 20   | 158  |
| 65° | 6   | 3   | 6   | 11   | 16   | 20   |
| 75° | 2   | 2   | 3   | 6    | 8    | 2    |
| 85° | 0   | 1   | 1   | 2    | 2    | 1    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 45°   | 67.5° | 90°  | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|
| 0°    | 35.5  | 35.5  | 35.5  | 35.5  | 35.5  | 35.5  | 35.5  | 35.5  | 35.5  | 35.5 | 35.5   |
| 2.5°  | 55.3  | 55.3  | 55.0  | 54.0  | 53.6  | 52.3  | 51.4  | 48.7  | 42.1  | 35.8 | 30.7   |
| 5°    | 80.6  | 81.8  | 80.1  | 79.8  | 78.4  | 76.2  | 74.7  | 64.5  | 48.7  | 35.1 | 26.3   |
| 7.5°  | 110.5 | 111.0 | 110.5 | 108.1 | 105.9 | 102.2 | 98.8  | 82.8  | 55.3  | 33.8 | 23.1   |
| 10°   | 138.0 | 137.3 | 135.8 | 134.1 | 131.0 | 127.1 | 121.2 | 101.3 | 61.6  | 32.1 | 21.2   |
| 12.5° | 160.4 | 160.2 | 158.5 | 156.8 | 152.9 | 147.8 | 141.9 | 118.1 | 66.9  | 29.9 | 20.2   |
| 15°   | 176.7 | 176.7 | 175.0 | 173.1 | 169.4 | 165.3 | 158.7 | 132.7 | 71.3  | 27.5 | 19.2   |
| 17.5° | 187.7 | 187.2 | 186.0 | 184.5 | 181.6 | 177.5 | 172.4 | 144.4 | 74.2  | 25.1 | 19.0   |
| 20°   | 194.8 | 194.5 | 193.5 | 191.3 | 188.9 | 185.7 | 181.1 | 154.3 | 75.5  | 22.9 | 18.7   |
| 22.5° | 217.4 | 215.4 | 211.8 | 207.2 | 201.3 | 193.8 | 187.4 | 161.9 | 75.0  | 20.4 | 18.3   |
| 25°   | 235.9 | 235.2 | 231.3 | 225.7 | 217.9 | 208.1 | 197.7 | 167.0 | 72.5  | 18.5 | 17.8   |
| 27.5° | 248.1 | 246.8 | 243.2 | 237.1 | 228.8 | 219.3 | 209.6 | 170.9 | 69.1  | 16.8 | 17.0   |
| 30°   | 256.6 | 255.9 | 252.2 | 245.4 | 236.9 | 226.4 | 216.4 | 175.3 | 64.5  | 15.1 | 16.3   |
| 32.5° | 261.9 | 261.2 | 257.6 | 251.5 | 243.2 | 232.2 | 220.8 | 179.7 | 58.9  | 13.6 | 15.6   |
| 35°   | 264.9 | 264.1 | 260.0 | 254.6 | 246.8 | 236.1 | 224.0 | 181.8 | 52.1  | 12.4 | 14.8   |
| 37.5° | 268.5 | 267.1 | 261.5 | 254.9 | 247.1 | 237.1 | 224.9 | 181.6 | 45.3  | 11.4 | 14.4   |
| 40°   | 274.6 | 270.7 | 262.7 | 253.9 | 245.9 | 235.9 | 224.2 | 179.7 | 37.7  | 10.7 | 13.9   |
| 42.5° | 280.4 | 274.8 | 262.9 | 252.4 | 243.4 | 233.7 | 221.5 | 175.3 | 29.5  | 10.2 | 13.6   |
| 45°   | 282.4 | 274.1 | 259.5 | 249.0 | 240.5 | 230.5 | 217.9 | 166.0 | 20.0  | 9.7  | 13.1   |
| 47.5° | 269.5 | 263.4 | 251.2 | 243.4 | 235.4 | 225.7 | 212.5 | 156.3 | 11.4  | 9.3  | 12.7   |
| 50°   | 245.9 | 242.0 | 235.2 | 230.3 | 225.9 | 219.1 | 206.2 | 141.9 | 6.8   | 8.8  | 12.2   |
| 52.5° | 224.0 | 222.7 | 217.9 | 214.0 | 211.5 | 208.4 | 196.7 | 119.8 | 5.6   | 8.5  | 11.7   |
| 55°   | 194.3 | 190.4 | 189.2 | 187.7 | 192.8 | 192.6 | 176.7 | 82.0  | 5.4   | 8.0  | 11.2   |
| 57.5° | 122.0 | 123.7 | 130.0 | 141.7 | 155.6 | 163.6 | 163.1 | 43.8  | 5.1   | 7.5  | 10.5   |
| 60°   | 92.8  | 92.5  | 94.5  | 99.3  | 109.5 | 121.0 | 131.7 | 15.3  | 4.9   | 7.1  | 10.0   |
| 62.5° | 27.8  | 28.5  | 34.3  | 50.4  | 60.4  | 74.5  | 67.9  | 3.7   | 4.6   | 6.3  | 9.0    |
| 65°   | 5.6   | 5.8   | 5.8   | 6.6   | 8.0   | 12.2  | 14.8  | 3.2   | 4.4   | 5.8  | 8.3    |
| 67.5° | 2.4   | 2.4   | 2.4   | 2.7   | 2.7   | 3.2   | 2.7   | 2.9   | 3.9   | 5.1  | 7.3    |
| 70°   | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   | 2.4   | 2.4   | 3.4   | 4.4  | 6.3    |
| 72.5° | 1.7   | 1.7   | 1.7   | 1.9   | 1.9   | 1.9   | 1.9   | 2.2   | 2.9   | 3.7  | 5.4    |
| 75°   | 1.5   | 1.5   | 1.5   | 1.5   | 1.7   | 1.7   | 1.7   | 1.9   | 2.4   | 3.2  | 4.4    |
| 77.5° | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.5   | 1.5   | 1.5   | 1.9   | 2.4  | 3.7    |
| 80°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.2   | 1.5   | 1.9  | 2.7    |
| 82.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 1.0   | 1.2   | 1.5  | 1.9    |
| 85°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.7   | 0.7   | 1.0  | 1.2    |
| 87.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   | 0.5   | 0.5  | 0.7    |
| 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):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 35.5 | 35.5   | 35.5 |
| 2.5°  | 27.0 | 25.6   | 24.8 |
| 5°    | 22.2 | 20.9   | 20.7 |
| 7.5°  | 20.4 | 20.2   | 20.2 |
| 10°   | 20.0 | 20.2   | 20.4 |
| 12.5° | 20.0 | 20.4   | 20.7 |
| 15°   | 20.0 | 20.4   | 20.7 |
| 17.5° | 20.0 | 20.4   | 20.7 |
| 20°   | 19.7 | 20.4   | 20.9 |
| 22.5° | 19.5 | 20.4   | 20.7 |
| 25°   | 19.2 | 20.4   | 20.7 |
| 27.5° | 19.0 | 20.2   | 20.7 |
| 30°   | 18.7 | 20.2   | 20.9 |
| 32.5° | 18.3 | 20.2   | 20.9 |
| 35°   | 18.0 | 20.2   | 20.9 |
| 37.5° | 17.8 | 20.2   | 21.2 |
| 40°   | 17.5 | 20.2   | 21.2 |
| 42.5° | 17.3 | 20.2   | 21.2 |
| 45°   | 17.0 | 20.0   | 21.2 |
| 47.5° | 16.6 | 20.0   | 21.2 |
| 50°   | 16.3 | 19.7   | 20.9 |
| 52.5° | 15.8 | 19.5   | 20.9 |
| 55°   | 15.3 | 19.0   | 20.2 |
| 57.5° | 14.6 | 18.3   | 19.2 |
| 60°   | 13.6 | 17.3   | 18.3 |
| 62.5° | 12.4 | 16.1   | 16.8 |
| 65°   | 11.4 | 14.6   | 15.6 |
| 67.5° | 10.0 | 12.9   | 13.9 |
| 70°   | 8.8  | 11.2   | 12.2 |
| 72.5° | 7.5  | 9.5    | 10.5 |
| 75°   | 6.3  | 7.8    | 8.5  |
| 77.5° | 4.9  | 6.3    | 6.8  |
| 80°   | 3.9  | 4.9    | 5.4  |
| 82.5° | 2.7  | 3.4    | 3.7  |
| 85°   | 1.7  | 2.2    | 2.4  |
| 87.5° | 0.7  | 1.0    | 1.0  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)