

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: P1314362

Luminaire Tested: LDSQA3D05R459730DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

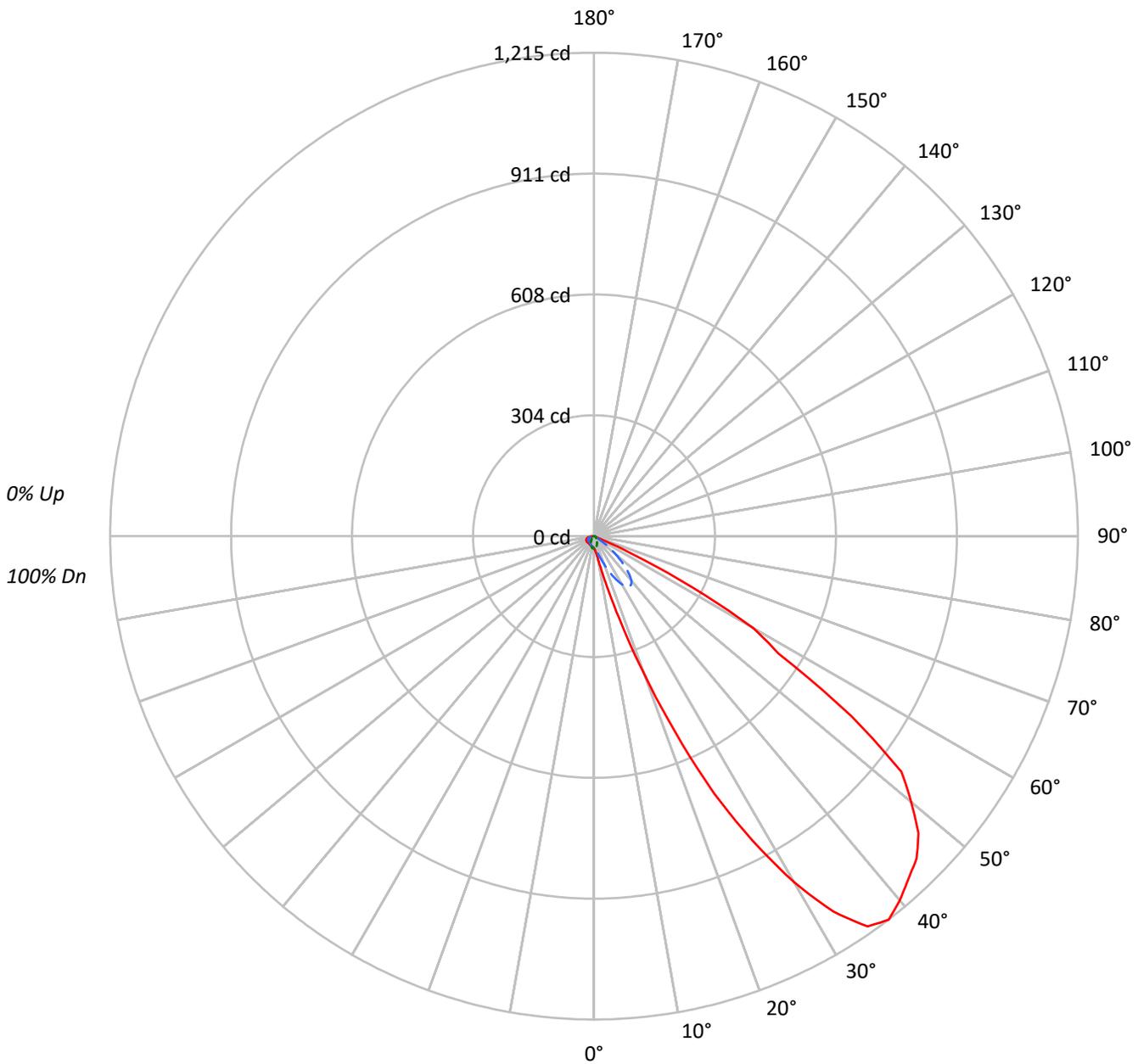
Test Method: LM-79-2019  
Report Number: P1314362  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R459730DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 542.9 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83  
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 (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



— 0°-180°    - - - 45°-225°    ····· 90°-270°



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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  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 88  | 88  | 88  | 88  | 86  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 75  | 75  | 75  | 73  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  | 77  | 70  | 65  | 74  | 69  | 64  | 71  | 67  | 63  | 63  | 63  | 63  | 61  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 53  | 53  | 53  | 51  |
| 5   | 76  | 63  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  | 57  | 51  | 45  | 55  | 50  | 45  | 45  | 45  | 45  | 43  |
| 6   | 69  | 55  | 46  | 39  | 67  | 54  | 46  | 39  | 52  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 38  | 38  | 38  | 38  | 36  |
| 7   | 63  | 49  | 40  | 34  | 61  | 48  | 40  | 33  | 47  | 39  | 33  | 45  | 38  | 33  | 44  | 37  | 33  | 33  | 33  | 33  | 31  |
| 8   | 58  | 44  | 35  | 29  | 56  | 43  | 35  | 29  | 42  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 28  | 28  | 28  | 26  |
| 9   | 53  | 39  | 31  | 25  | 52  | 39  | 30  | 25  | 38  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  | 24  | 24  | 24  | 22  |
| 10  | 49  | 36  | 27  | 22  | 48  | 35  | 27  | 22  | 34  | 27  | 21  | 33  | 26  | 21  | 32  | 26  | 21  | 21  | 21  | 21  | 19  |

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

|     | 0°     | 45°   | 90°  | 135° | 180°  |
|-----|--------|-------|------|------|-------|
| 0°  | 5408   | 5408  | 5408 | 5408 | 5408  |
| 5°  | 6431   | 5964  | 5359 | 4962 | 4962  |
| 10° | 10283  | 6978  | 5019 | 4704 | 4704  |
| 15° | 25604  | 9361  | 4564 | 4404 | 4564  |
| 20° | 67427  | 13984 | 3940 | 4197 | 4435  |
| 25° | 135394 | 20713 | 3401 | 3915 | 4352  |
| 30° | 199601 | 27742 | 2764 | 3838 | 4455  |
| 35° | 251768 | 32546 | 2355 | 3763 | 4625  |
| 40° | 268616 | 32891 | 2113 | 3934 | 4946  |
| 45° | 279095 | 27425 | 1973 | 4262 | 5358  |
| 50° | 278648 | 19103 | 1929 | 4555 | 6002  |
| 55° | 236846 | 8497  | 2012 | 5104 | 6606  |
| 60° | 159168 | 1688  | 1998 | 5718 | 7578  |
| 65° | 42218  | 734   | 1997 | 6235 | 8599  |
| 70° | 1108   | 906   | 2014 | 6798 | 9718  |
| 75° | 865    | 865   | 2063 | 7187 | 11046 |
| 80° | 893    | 1289  | 2182 | 7538 | 12497 |
| 85° | 790    | 1778  | 3557 | 7904 | 12449 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 47.5°  
 Luminance: 286277 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.1    | 0.6       |
| 10°-20°   | 15.3   | 2.8       |
| 20°-30°   | 63.2   | 11.6      |
| 30°-40°   | 133.1  | 24.5      |
| 40°-50°   | 164.2  | 30.2      |
| 50°-60°   | 123.1  | 22.7      |
| 60°-70°   | 31.7   | 5.8       |
| 70°-80°   | 6.5    | 1.2       |
| 80°-90°   | 2.7    | 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°    | 81.6   | 15.0      |
| 0°-40°    | 214.7  | 39.5      |
| 0°-60°    | 502.1  | 92.5      |
| 0°-90°    | 542.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 542.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 31   | 31  | 31  | 31   | 31   |      |
| 5°  | 37   | 34  | 31  | 29   | 29   | 4    |
| 15° | 144  | 52  | 26  | 25   | 26   | 53   |
| 25° | 712  | 109 | 18  | 21   | 23   | 332  |
| 35° | 1198 | 155 | 11  | 18   | 22   | 730  |
| 45° | 1146 | 113 | 8   | 18   | 22   | 877  |
| 55° | 789  | 28  | 7   | 17   | 22   | 681  |
| 65° | 104  | 2   | 5   | 15   | 21   | 149  |
| 75° | 1    | 1   | 3   | 11   | 17   | 2    |
| 85° | 0    | 1   | 2   | 4    | 6    | 0    |
| 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°    | 31.4   | 31.4   | 31.4   | 31.4   | 31.4  | 31.4  | 31.4  | 31.4  | 31.4  | 31.4 | 31.4   |
| 2.5°  | 33.2   | 33.2   | 33.2   | 33.2   | 33.2  | 33.2  | 33.2  | 32.8  | 32.3  | 31.4 | 30.5   |
| 5°    | 37.2   | 36.8   | 36.8   | 36.8   | 36.3  | 35.9  | 35.9  | 34.5  | 32.8  | 31.0 | 29.6   |
| 7.5°  | 44.0   | 44.0   | 43.5   | 42.6   | 42.2  | 41.3  | 40.4  | 36.8  | 32.8  | 30.1 | 28.3   |
| 10°   | 58.8   | 57.9   | 56.5   | 55.6   | 53.4  | 50.3  | 48.0  | 39.9  | 32.3  | 28.7 | 27.4   |
| 12.5° | 87.9   | 89.7   | 85.2   | 80.8   | 74.5  | 68.6  | 61.5  | 45.3  | 32.3  | 27.4 | 26.0   |
| 15°   | 143.6  | 146.7  | 138.2  | 129.2  | 114.0 | 99.6  | 86.1  | 52.5  | 31.4  | 25.6 | 24.2   |
| 17.5° | 234.7  | 238.7  | 224.3  | 203.2  | 179.5 | 150.8 | 126.1 | 62.4  | 30.5  | 23.8 | 22.9   |
| 20°   | 367.9  | 367.5  | 339.6  | 313.2  | 267.4 | 225.2 | 179.0 | 76.3  | 29.2  | 21.5 | 21.5   |
| 22.5° | 531.7  | 533.5  | 499.4  | 451.8  | 386.8 | 319.0 | 245.4 | 92.4  | 27.4  | 19.7 | 20.2   |
| 25°   | 712.5  | 697.2  | 656.8  | 599.0  | 516.0 | 422.2 | 325.3 | 109.0 | 25.6  | 17.9 | 18.8   |
| 27.5° | 863.2  | 848.4  | 802.2  | 733.6  | 644.3 | 533.0 | 406.5 | 125.6 | 23.3  | 16.2 | 17.5   |
| 30°   | 1003.7 | 984.8  | 929.2  | 851.6  | 745.2 | 625.0 | 482.8 | 139.5 | 20.6  | 13.9 | 16.2   |
| 32.5° | 1119.4 | 1102.4 | 1039.1 | 948.9  | 833.2 | 704.0 | 547.4 | 150.3 | 17.9  | 12.6 | 15.3   |
| 35°   | 1197.5 | 1180.0 | 1121.7 | 1022.5 | 896.4 | 761.4 | 599.9 | 154.8 | 15.7  | 11.2 | 14.8   |
| 37.5° | 1215.4 | 1206.0 | 1164.3 | 1071.4 | 940.0 | 798.2 | 633.5 | 153.4 | 13.0  | 10.3 | 13.9   |
| 40°   | 1194.8 | 1197.0 | 1177.3 | 1100.1 | 963.3 | 813.9 | 647.4 | 146.3 | 10.8  | 9.4  | 13.5   |
| 42.5° | 1168.3 | 1174.2 | 1172.8 | 1111.8 | 973.2 | 814.8 | 641.6 | 131.9 | 8.5   | 8.5  | 13.0   |
| 45°   | 1145.9 | 1151.7 | 1159.8 | 1106.9 | 966.4 | 803.1 | 623.2 | 112.6 | 6.3   | 8.1  | 13.0   |
| 47.5° | 1105.1 | 1111.4 | 1123.0 | 1067.4 | 932.3 | 773.1 | 590.0 | 91.5  | 4.5   | 7.6  | 12.6   |
| 50°   | 1040.0 | 1043.2 | 1040.0 | 977.6  | 866.8 | 724.6 | 536.2 | 71.3  | 3.1   | 7.2  | 12.6   |
| 52.5° | 973.2  | 966.9  | 940.9  | 861.9  | 762.7 | 647.9 | 468.4 | 50.7  | 2.2   | 6.7  | 12.1   |
| 55°   | 788.8  | 778.9  | 759.6  | 711.1  | 654.6 | 553.7 | 378.7 | 28.3  | 2.2   | 6.7  | 11.7   |
| 57.5° | 549.6  | 555.0  | 561.7  | 551.9  | 525.8 | 436.1 | 287.6 | 12.6  | 2.2   | 6.3  | 11.7   |
| 60°   | 462.1  | 457.6  | 458.1  | 451.8  | 408.7 | 318.1 | 197.9 | 4.9   | 2.2   | 5.8  | 11.2   |
| 62.5° | 275.9  | 279.1  | 284.9  | 286.3  | 243.6 | 177.7 | 103.6 | 2.2   | 2.2   | 5.4  | 10.8   |
| 65°   | 103.6  | 108.6  | 95.1   | 82.6   | 65.5  | 48.0  | 24.2  | 1.8   | 2.7   | 4.9  | 9.9    |
| 67.5° | 3.1    | 3.6    | 4.5    | 4.0    | 4.0   | 3.6   | 2.7   | 1.8   | 2.7   | 4.5  | 9.4    |
| 70°   | 2.2    | 2.2    | 2.2    | 2.2    | 2.2   | 1.8   | 1.8   | 1.8   | 2.2   | 4.0  | 8.5    |
| 72.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8   | 1.8   | 1.8   | 1.8   | 2.2   | 3.6  | 7.6    |
| 75°   | 1.3    | 1.8    | 1.3    | 1.3    | 1.3   | 1.3   | 1.3   | 1.3   | 2.2   | 3.1  | 6.3    |
| 77.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3   | 1.3   | 1.3   | 1.3   | 1.8   | 2.7  | 5.4    |
| 80°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 0.9   | 0.9   | 1.3   | 1.8   | 2.2  | 4.5    |
| 82.5° | 0.9    | 0.9    | 0.9    | 0.4    | 0.9   | 0.9   | 0.9   | 0.9   | 1.8   | 1.8  | 3.6    |
| 85°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.9   | 1.3   | 1.8  | 2.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.4   | 0.4   | 0.4   | 0.9   | 1.3   | 1.3  | 1.3    |
| 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°    | 31.4 | 31.4   | 31.4 |
| 2.5°  | 29.6 | 29.6   | 29.6 |
| 5°    | 28.7 | 28.7   | 28.7 |
| 7.5°  | 27.8 | 27.8   | 27.8 |
| 10°   | 26.9 | 26.9   | 26.9 |
| 12.5° | 26.0 | 26.0   | 26.5 |
| 15°   | 24.7 | 25.6   | 25.6 |
| 17.5° | 23.8 | 24.7   | 25.1 |
| 20°   | 22.9 | 23.8   | 24.2 |
| 22.5° | 21.5 | 22.9   | 23.8 |
| 25°   | 20.6 | 22.4   | 22.9 |
| 27.5° | 19.7 | 22.0   | 22.9 |
| 30°   | 19.3 | 21.5   | 22.4 |
| 32.5° | 18.4 | 21.1   | 22.0 |
| 35°   | 17.9 | 21.1   | 22.0 |
| 37.5° | 17.9 | 20.6   | 22.0 |
| 40°   | 17.5 | 20.6   | 22.0 |
| 42.5° | 17.5 | 20.6   | 22.0 |
| 45°   | 17.5 | 20.6   | 22.0 |
| 47.5° | 17.0 | 20.6   | 22.4 |
| 50°   | 17.0 | 21.1   | 22.4 |
| 52.5° | 17.0 | 21.1   | 22.4 |
| 55°   | 17.0 | 21.1   | 22.0 |
| 57.5° | 16.6 | 20.6   | 22.0 |
| 60°   | 16.6 | 20.6   | 22.0 |
| 62.5° | 15.7 | 20.2   | 21.5 |
| 65°   | 15.3 | 19.7   | 21.1 |
| 67.5° | 14.4 | 19.3   | 20.2 |
| 70°   | 13.5 | 17.9   | 19.3 |
| 72.5° | 12.1 | 17.0   | 18.4 |
| 75°   | 10.8 | 15.7   | 16.6 |
| 77.5° | 9.4  | 13.9   | 14.8 |
| 80°   | 7.6  | 11.7   | 12.6 |
| 82.5° | 5.8  | 9.0    | 9.4  |
| 85°   | 4.0  | 5.8    | 6.3  |
| 87.5° | 1.8  | 2.7    | 3.1  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)