

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: P1307854

Luminaire Tested: LDSQA3D05R509027DE010 3LSQCDR1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R509027DE010 3LSQCDR1MMS  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , 3LSQCDR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

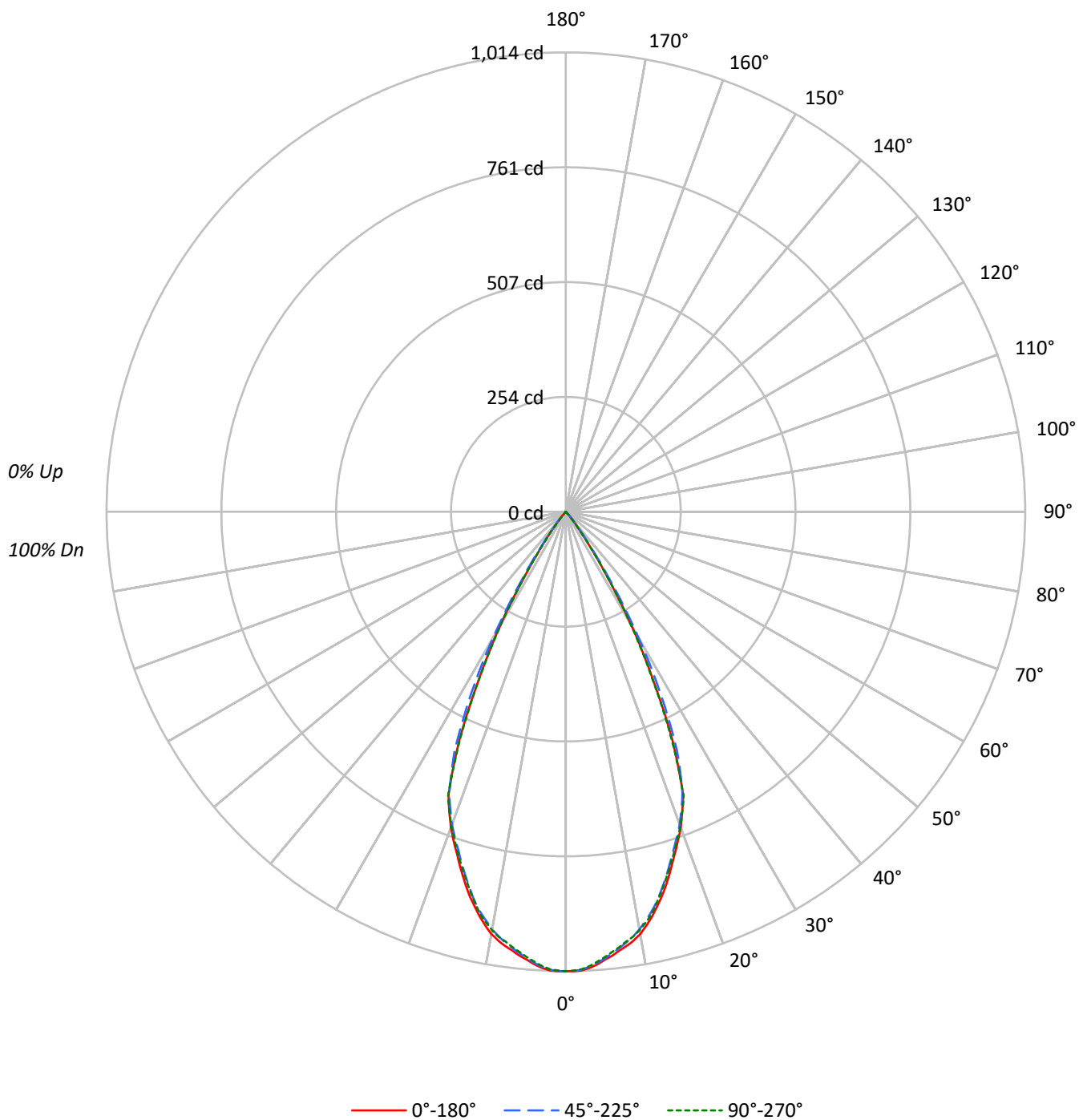
Lumens per Lamp: N/A  
Luminaire Lumens: 653.0 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |     |     |     | 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 | 102 | 102 | 100 |
| 1   | 114 | 112 | 109 | 107 | 112 | 110 | 108 | 106 | 106 | 104 | 102 | 102 | 101 | 99  | 98  | 97  | 97  | 97  | 97  | 95  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 98  | 95  | 97  | 95  | 93  | 95  | 93  | 91  | 91  | 91  | 90  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  | 93  | 90  | 88  | 91  | 88  | 86  | 86  | 86  | 85  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 90  | 87  | 84  | 89  | 85  | 83  | 87  | 84  | 82  | 82  | 82  | 80  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 77  | 77  | 76  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 79  | 75  | 82  | 78  | 74  | 81  | 77  | 74  | 79  | 76  | 73  | 73  | 73  | 72  |
| 7   | 88  | 80  | 75  | 71  | 87  | 79  | 74  | 71  | 78  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 70  | 70  | 70  | 69  |
| 8   | 85  | 76  | 71  | 67  | 83  | 76  | 71  | 67  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 66  | 66  | 65  |
| 9   | 81  | 73  | 67  | 64  | 80  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 66  | 63  | 70  | 66  | 63  | 63  | 63  | 62  |
| 10  | 78  | 69  | 64  | 61  | 77  | 69  | 64  | 61  | 68  | 64  | 60  | 67  | 63  | 60  | 67  | 63  | 60  | 60  | 60  | 59  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 174651 | 174651 | 174651 |
| 5°  | 171601 | 171117 | 170633 |
| 10° | 165488 | 163687 | 164019 |
| 15° | 152231 | 150323 | 150733 |
| 20° | 135935 | 134653 | 135422 |
| 25° | 105807 | 110234 | 104648 |
| 30° | 57313  | 63995  | 56299  |
| 35° | 18060  | 21508  | 17682  |
| 40° | 3979   | 5576   | 3777   |
| 45° | 122    | 1705   | 122    |
| 50° | 0      | 241    | 0      |
| 55° | 0      | 0      | 0      |
| 60° | 0      | 0      | 0      |
| 65° | 0      | 0      | 0      |
| 70° | 0      | 0      | 0      |
| 75° | 0      | 0      | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 1705 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 92.9   | 14.2      |
| 10°-20°   | 236.0  | 36.1      |
| 20°-30°   | 248.6  | 38.1      |
| 30°-40°   | 71.0   | 10.9      |
| 40°-50°   | 4.4    | 0.7       |
| 50°-60°   | 0.0    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 577.6  | 88.4      |
| 0°-40°    | 648.6  | 99.3      |
| 0°-60°    | 653.0  | 100.0     |
| 0°-90°    | 653.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 653.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1014 | 1014  | 1014 | 1014  | 1014 |      |
| 5°  | 993  | 992   | 990  | 989   | 987  | 93   |
| 15° | 854  | 848   | 843  | 844   | 845  | 238  |
| 25° | 557  | 577   | 580  | 574   | 551  | 244  |
| 35° | 86   | 92    | 102  | 87    | 84   | 67   |
| 45° | 0    | 2     | 7    | 2     | 0    | 3    |
| 55° | 0    | 0     | 0    | 0     | 0    | 0    |
| 65° | 0    | 0     | 0    | 0     | 0    | 0    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1014.1 | 1014.1 | 1014.1 | 1014.1 | 1014.1 |
| 1°    | 1014.5 | 1015.0 | 1014.1 | 1015.0 | 1012.7 |
| 2°    | 1013.1 | 1012.2 | 1011.2 | 1011.7 | 1010.3 |
| 3°    | 1008.0 | 1007.5 | 1005.6 | 1006.1 | 1004.2 |
| 4°    | 1001.4 | 1000.0 | 998.6  | 997.7  | 995.8  |
| 5°    | 992.6  | 991.6  | 989.8  | 988.8  | 987.0  |
| 6°    | 985.1  | 983.2  | 980.0  | 979.0  | 977.2  |
| 7°    | 975.3  | 974.3  | 970.1  | 969.2  | 968.3  |
| 8°    | 967.8  | 965.0  | 959.9  | 960.3  | 958.0  |
| 9°    | 958.0  | 954.3  | 949.1  | 949.1  | 949.6  |
| 10°   | 946.3  | 940.7  | 936.0  | 937.4  | 937.9  |
| 11°   | 930.9  | 927.2  | 920.2  | 923.4  | 923.4  |
| 12°   | 914.1  | 909.4  | 904.3  | 907.1  | 909.0  |
| 13°   | 894.5  | 890.7  | 886.1  | 888.9  | 887.9  |
| 14°   | 875.3  | 868.3  | 865.1  | 868.8  | 867.4  |
| 15°   | 853.8  | 848.2  | 843.1  | 844.5  | 845.4  |
| 17.5° | 796.4  | 790.3  | 786.6  | 787.0  | 791.3  |
| 20°   | 741.7  | 739.4  | 734.7  | 736.6  | 738.9  |
| 22.5° | 677.3  | 678.2  | 672.6  | 674.0  | 679.6  |
| 25°   | 556.8  | 577.3  | 580.1  | 573.6  | 550.7  |
| 27.5° | 412.4  | 443.3  | 452.6  | 437.7  | 409.6  |
| 30°   | 288.2  | 296.6  | 321.8  | 293.3  | 283.1  |
| 32.5° | 169.1  | 181.7  | 195.2  | 175.6  | 168.6  |
| 35°   | 85.9   | 92.0   | 102.3  | 86.9   | 84.1   |
| 37.5° | 39.7   | 42.5   | 46.7   | 39.7   | 37.4   |
| 40°   | 17.7   | 21.0   | 24.8   | 20.1   | 16.8   |
| 42.5° | 5.6    | 9.8    | 13.1   | 8.9    | 5.1    |
| 45°   | 0.5    | 2.3    | 7.0    | 2.3    | 0.5    |
| 47.5° | 0.0    | 0.5    | 2.8    | 0.5    | 0.0    |
| 50°   | 0.0    | 0.0    | 0.9    | 0.0    | 0.0    |
| 52.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CANDELA DISTRIBUTION (continued):

|     | 0°  | 22.5° | 45° | 67.5° | 90° |
|-----|-----|-------|-----|-------|-----|
| 90° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |

(END OF REPORT)