

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P756145

Luminaire Tested: LD4D95BD010-EU4DR3070959035-4LBCSSQMMS

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756145  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D95BD010-EU4DR3070959035-4LBCSSQMMMS  
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

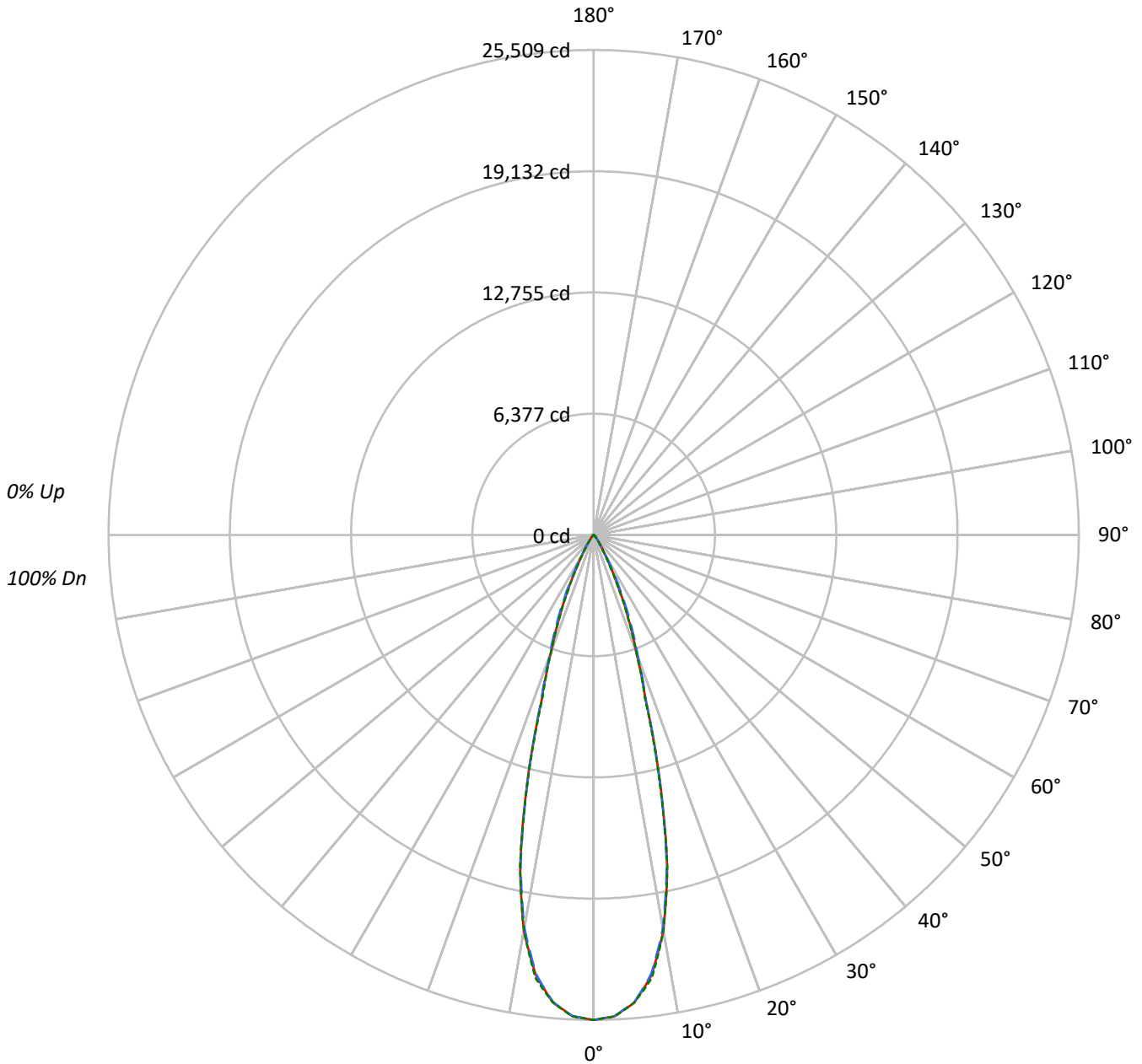
Lumens per Lamp: N/A  
Luminaire Lumens: 7933.3 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.2  
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 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 | 50 | 30 | 10 | 0 |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 96  |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 97  | 95  | 94  | 92  |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  | 89  |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 103 | 98  | 93  | 90  | 102 | 96  | 93  | 90  | 94  | 91  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 85  |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 100 | 94  | 89  | 86  | 98  | 93  | 89  | 86  | 91  | 88  | 85  | 90  | 86  | 84  | 88  | 86  | 83  | 82  |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 97  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  | 87  | 83  | 81  | 85  | 83  | 80  | 79  |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 94  | 87  | 82  | 79  | 92  | 86  | 82  | 79  | 85  | 81  | 78  | 84  | 81  | 78  | 83  | 80  | 78  | 77  |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 76  | 81  | 78  | 75  | 80  | 77  | 75  | 74  |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 73  | 72  |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 85  | 78  | 74  | 71  | 85  | 78  | 74  | 71  | 77  | 73  | 71  | 76  | 73  | 71  | 76  | 73  | 70  | 69  |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1952576 | 1952576 | 1952576 |
| 5°  | 1896522 | 1894309 | 1896614 |
| 10° | 1642670 | 1631089 | 1642281 |
| 15° | 1071761 | 1066008 | 1060643 |
| 20° | 532941  | 552930  | 532224  |
| 25° | 268461  | 302725  | 262955  |
| 30° | 107485  | 117119  | 93652   |
| 35° | 49851   | 47749   | 40021   |
| 40° | 21523   | 23901   | 20274   |
| 45° | 15187   | 18846   | 15317   |
| 50° | 5216    | 13718   | 5513    |
| 55° | 3003    | 5685    | 3176    |
| 60° | 2113    | 2495    | 2113    |
| 65° | 1358    | 1358    | 1358    |
| 70° | 850     | 559     | 850     |
| 75° | 0       | 384     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 18846 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2243.2 | 28.3      |
| 10°-20°   | 3612.6 | 45.5      |
| 20°-30°   | 1561.1 | 19.7      |
| 30°-40°   | 355.8  | 4.5       |
| 40°-50°   | 122.2  | 1.5       |
| 50°-60°   | 29.8   | 0.4       |
| 60°-70°   | 7.7    | 0.1       |
| 70°-80°   | 0.8    | 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       |
| 0°-30°    | 7416.9 | 93.5      |
| 0°-40°    | 7772.7 | 98.0      |
| 0°-60°    | 7924.7 | 99.9      |
| 0°-90°    | 7933.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7933.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 25509 | 25509 | 25509 | 25509 | 25509 |      |
| 5°  | 24683 | 24659 | 24654 | 24705 | 24684 | 2245 |
| 15° | 13525 | 13362 | 13452 | 13408 | 13385 | 3621 |
| 25° | 3179  | 3299  | 3584  | 3215  | 3114  | 1522 |
| 35° | 534   | 545   | 511   | 507   | 428   | 362  |
| 45° | 140   | 174   | 174   | 174   | 142   | 100  |
| 55° | 22    | 24    | 43    | 25    | 24    | 22   |
| 65° | 8     | 8     | 8     | 8     | 8     | 7    |
| 75° | 0     | 0     | 1     | 0     | 0     | 1    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 25509.4 | 25509.4 | 25509.4 | 25509.4 | 25509.4 |
| 2.5°  | 25340.3 | 25322.7 | 25332.8 | 25345.3 | 25350.3 |
| 5°    | 24682.8 | 24659.0 | 24654.0 | 24705.3 | 24684.0 |
| 7.5°  | 23356.4 | 23322.6 | 23271.3 | 23387.8 | 23496.7 |
| 10°   | 21134.6 | 21097.1 | 20985.6 | 21040.7 | 21129.6 |
| 12.5° | 17854.5 | 17733.1 | 17730.6 | 17905.9 | 17882.1 |
| 15°   | 13524.9 | 13362.1 | 13452.3 | 13408.4 | 13384.6 |
| 17.5° | 9095.1  | 9032.5  | 9152.7  | 9116.4  | 8959.8  |
| 20°   | 6542.7  | 6558.9  | 6788.1  | 6672.9  | 6533.9  |
| 22.5° | 4774.2  | 4833.1  | 5104.9  | 4808.1  | 4699.1  |
| 25°   | 3178.7  | 3298.9  | 3584.4  | 3215.0  | 3113.5  |
| 27.5° | 1955.0  | 2010.1  | 2299.4  | 1930.0  | 1874.9  |
| 30°   | 1216.1  | 1188.5  | 1325.1  | 1137.2  | 1059.6  |
| 32.5° | 797.8   | 762.7   | 806.6   | 723.9   | 661.3   |
| 35°   | 533.5   | 544.8   | 511.0   | 507.2   | 428.3   |
| 37.5° | 333.1   | 383.2   | 338.2   | 360.7   | 275.5   |
| 40°   | 215.4   | 278.0   | 239.2   | 264.3   | 202.9   |
| 42.5° | 176.6   | 214.2   | 196.6   | 209.2   | 180.3   |
| 45°   | 140.3   | 174.1   | 174.1   | 174.1   | 141.5   |
| 47.5° | 77.7    | 116.5   | 149.0   | 119.0   | 82.7    |
| 50°   | 43.8    | 58.9    | 115.2   | 61.4    | 46.3    |
| 52.5° | 30.1    | 33.8    | 78.9    | 35.1    | 31.3    |
| 55°   | 22.5    | 23.8    | 42.6    | 25.0    | 23.8    |
| 57.5° | 17.5    | 18.8    | 22.5    | 18.8    | 17.5    |
| 60°   | 13.8    | 13.8    | 16.3    | 15.0    | 13.8    |
| 62.5° | 10.0    | 10.0    | 11.3    | 10.0    | 10.0    |
| 65°   | 7.5     | 7.5     | 7.5     | 7.5     | 7.5     |
| 67.5° | 3.8     | 5.0     | 5.0     | 5.0     | 5.0     |
| 70°   | 3.8     | 2.5     | 2.5     | 2.5     | 3.8     |
| 72.5° | 2.5     | 1.3     | 1.3     | 1.3     | 1.3     |
| 75°   | 0.0     | 0.0     | 1.3     | 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     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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Scaled Data Report



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Scaled Data Report







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

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