

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: P754546

Luminaire Tested: LD4D85BD010-EU4DR3070959024-4LBCSSQMMS

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754546  
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: LD4D85BD010-EU4DR3070959024-4LBCSSQMMMS  
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

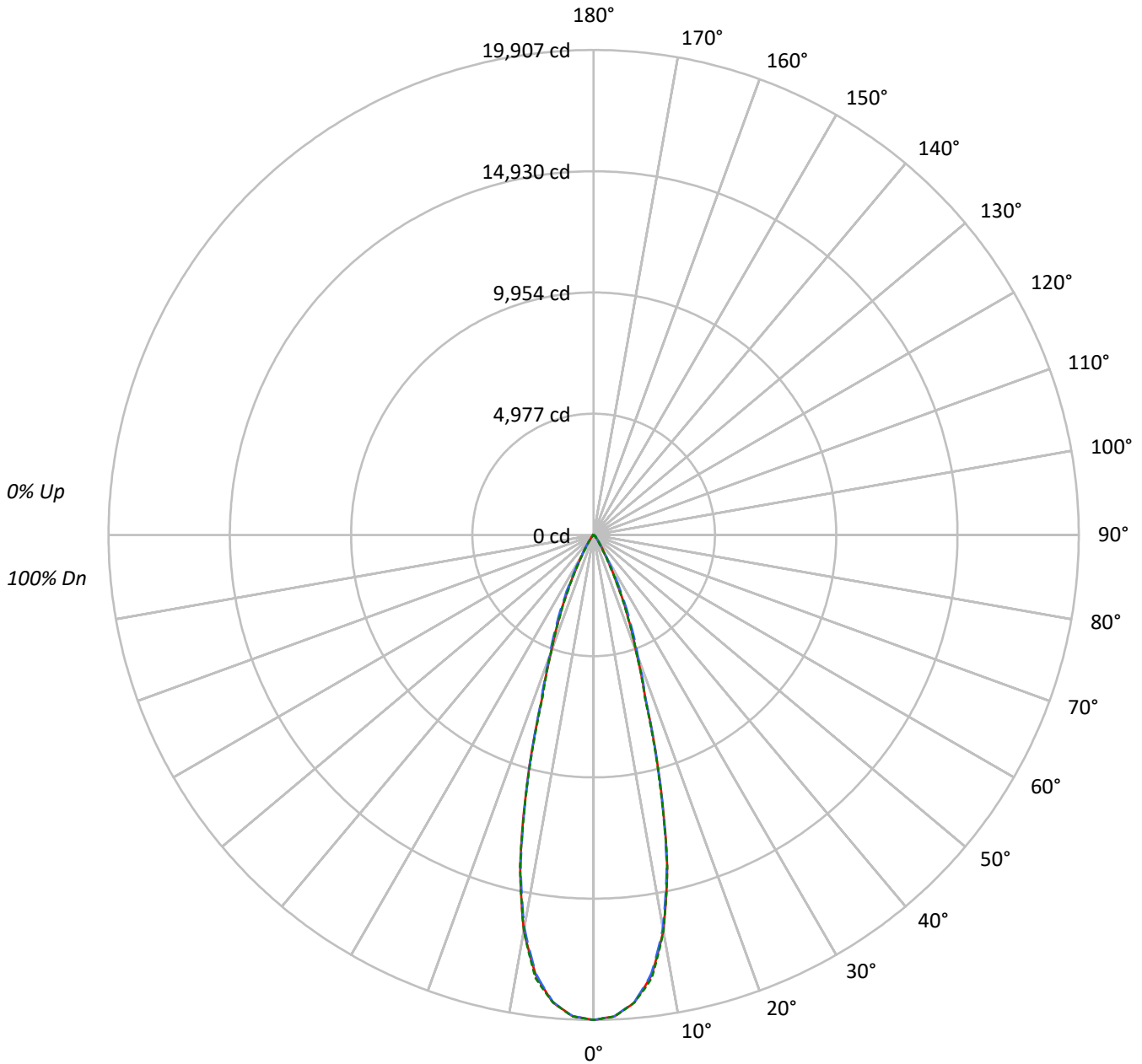
Lumens per Lamp: N/A  
Luminaire Lumens: 6191.0 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 87.7  
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



TEST NUMBER: P754546  
CATALOG NUMBER: LD4D85BD010-EU4DR3070959024-4LBCSSQMMS

### Luminous Intensity Polar Plot





TEST NUMBER: P754546

CATALOG NUMBER: LD4D85BD010-EU4DR3070959024-4LBCSSQMMS

**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 | 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°  | 1523742 | 1523742 | 1523742 |
| 5°  | 1480003 | 1478274 | 1480080 |
| 10° | 1281905 | 1272866 | 1281602 |
| 15° | 836384  | 831891  | 827707  |
| 20° | 415889  | 431496  | 415335  |
| 25° | 209494  | 236241  | 205203  |
| 30° | 83877   | 91399   | 73076   |
| 35° | 38909   | 37265   | 31238   |
| 40° | 16797   | 18655   | 15817   |
| 45° | 11853   | 14711   | 11951   |
| 50° | 4073    | 10705   | 4311    |
| 55° | 2349    | 4431    | 2482    |
| 60° | 1653    | 1944    | 1653    |
| 65° | 1069    | 1069    | 1069    |
| 70° | 649     | 448     | 649     |
| 75° | 0       | 296     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14711 cd/sqm



TEST NUMBER: P754546

CATALOG NUMBER: LD4D85BD010-EU4DR3070959024-4LBCSSQMMS

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1750.5 | 28.3      |
| 10°-20°   | 2819.2 | 45.5      |
| 20°-30°   | 1218.3 | 19.7      |
| 30°-40°   | 277.7  | 4.5       |
| 40°-50°   | 95.3   | 1.5       |
| 50°-60°   | 23.3   | 0.4       |
| 60°-70°   | 6.0    | 0.1       |
| 70°-80°   | 0.6    | 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°    | 5788.0 | 93.5      |
| 0°-40°    | 6065.7 | 98.0      |
| 0°-60°    | 6184.3 | 99.9      |
| 0°-90°    | 6191.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6191.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 19907 | 19907 | 19907 | 19907 | 19907 |      |
| 5°  | 19262 | 19243 | 19239 | 19280 | 19263 | 1752 |
| 15° | 10555 | 10428 | 10498 | 10464 | 10445 | 2826 |
| 25° | 2480  | 2574  | 2797  | 2509  | 2430  | 1187 |
| 35° | 416   | 425   | 399   | 396   | 334   | 282  |
| 45° | 110   | 136   | 136   | 136   | 110   | 78   |
| 55° | 18    | 19    | 33    | 20    | 19    | 17   |
| 65° | 6     | 6     | 6     | 6     | 6     | 6    |
| 75° | 0     | 0     | 1     | 0     | 0     | 1    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     | 0    |



TEST NUMBER: P754546

CATALOG NUMBER: LD4D85BD010-EU4DR3070959024-4LBCSSQMMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 19906.9 | 19906.9 | 19906.9 | 19906.9 | 19906.9 |
| 2.5°  | 19775.0 | 19761.3 | 19769.1 | 19778.9 | 19782.8 |
| 5°    | 19261.9 | 19243.3 | 19239.4 | 19279.5 | 19262.9 |
| 7.5°  | 18226.9 | 18200.5 | 18160.4 | 18251.3 | 18336.3 |
| 10°   | 16493.0 | 16463.7 | 16376.7 | 16419.7 | 16489.1 |
| 12.5° | 13933.3 | 13838.5 | 13836.5 | 13973.4 | 13954.8 |
| 15°   | 10554.6 | 10427.5 | 10497.9 | 10463.7 | 10445.1 |
| 17.5° | 7097.6  | 7048.7  | 7142.6  | 7114.2  | 6992.1  |
| 20°   | 5105.7  | 5118.5  | 5297.3  | 5207.4  | 5098.9  |
| 22.5° | 3725.7  | 3771.6  | 3983.7  | 3752.1  | 3667.1  |
| 25°   | 2480.5  | 2574.4  | 2797.2  | 2508.9  | 2429.7  |
| 27.5° | 1525.7  | 1568.7  | 1794.4  | 1506.1  | 1463.1  |
| 30°   | 949.0   | 927.5   | 1034.1  | 887.4   | 826.8   |
| 32.5° | 622.6   | 595.2   | 629.4   | 564.9   | 516.0   |
| 35°   | 416.4   | 425.2   | 398.8   | 395.8   | 334.3   |
| 37.5° | 260.0   | 299.1   | 263.9   | 281.5   | 215.0   |
| 40°   | 168.1   | 217.0   | 186.7   | 206.2   | 158.3   |
| 42.5° | 137.8   | 167.1   | 153.4   | 163.2   | 140.7   |
| 45°   | 109.5   | 135.9   | 135.9   | 135.9   | 110.4   |
| 47.5° | 60.6    | 90.9    | 116.3   | 92.8    | 64.5    |
| 50°   | 34.2    | 45.9    | 89.9    | 47.9    | 36.2    |
| 52.5° | 23.5    | 26.4    | 61.6    | 27.4    | 24.4    |
| 55°   | 17.6    | 18.6    | 33.2    | 19.5    | 18.6    |
| 57.5° | 13.7    | 14.7    | 17.6    | 14.7    | 13.7    |
| 60°   | 10.8    | 10.8    | 12.7    | 11.7    | 10.8    |
| 62.5° | 7.8     | 7.8     | 8.8     | 7.8     | 7.8     |
| 65°   | 5.9     | 5.9     | 5.9     | 5.9     | 5.9     |
| 67.5° | 2.9     | 3.9     | 3.9     | 3.9     | 3.9     |
| 70°   | 2.9     | 2.0     | 2.0     | 2.0     | 2.9     |
| 72.5° | 2.0     | 1.0     | 1.0     | 1.0     | 1.0     |
| 75°   | 0.0     | 0.0     | 1.0     | 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     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report







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

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)