

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: P756106

Luminaire Tested: LD4D95BD010-EU4DR3070959024-4LBCSSQMMS

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756106
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-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: 6727.1 lumens
Efficiency: N/A
Efficacy: 67.8 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

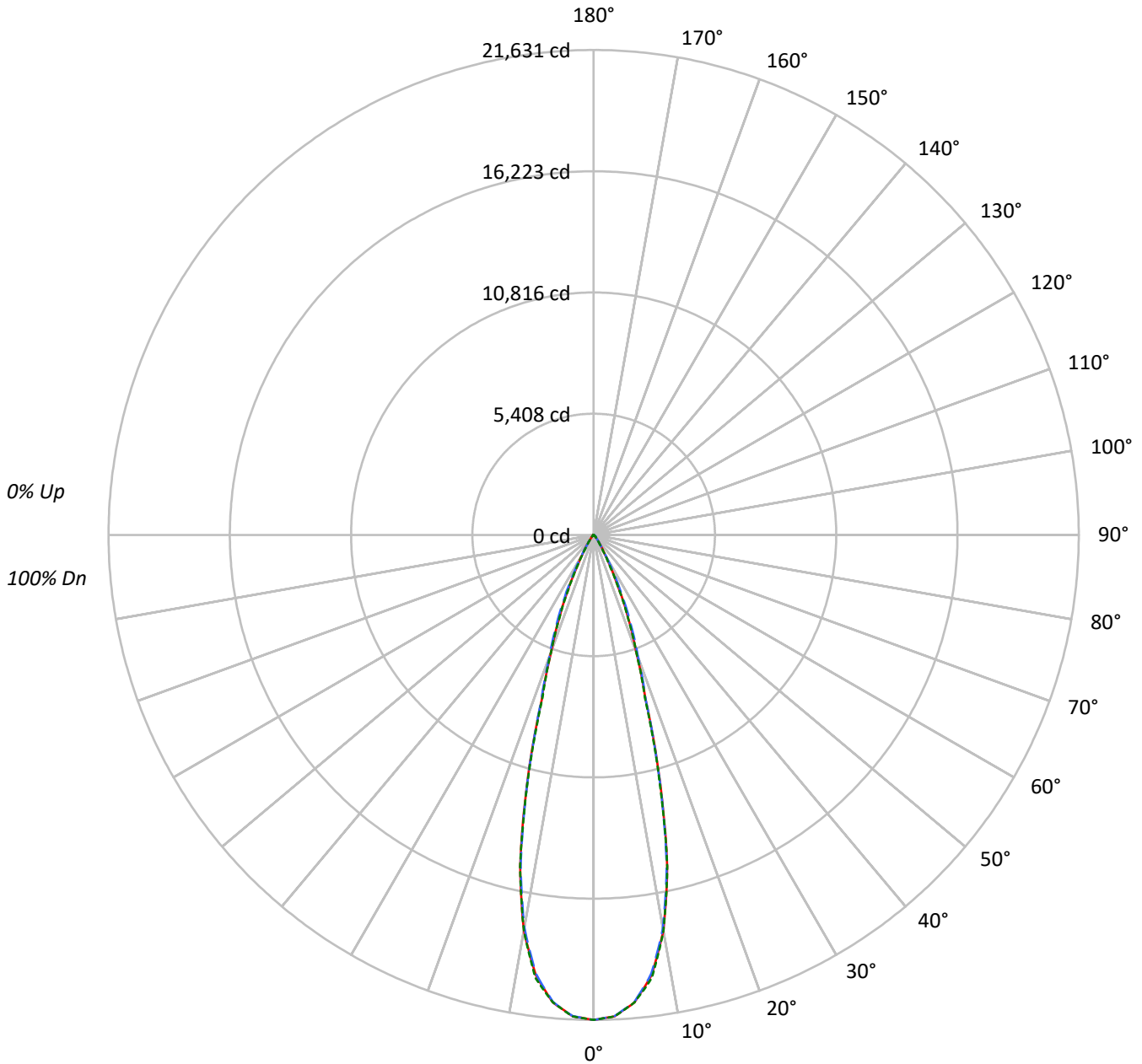
Input Watts (W): 99.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 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° | 1655695 | 1655695 | 1655695 |
| 5° | 1608165 | 1606290 | 1608250 |
| 10° | 1392919 | 1383094 | 1392585 |
| 15° | 908813 | 903931 | 899383 |
| 20° | 451909 | 468859 | 451306 |
| 25° | 227643 | 256696 | 222973 |
| 30° | 91142 | 99309 | 79414 |
| 35° | 42273 | 40489 | 33938 |
| 40° | 18255 | 20264 | 17186 |
| 45° | 12871 | 15978 | 12990 |
| 50° | 4430 | 11634 | 4680 |
| 55° | 2549 | 4818 | 2696 |
| 60° | 1791 | 2113 | 1791 |
| 65° | 1159 | 1159 | 1159 |
| 70° | 716 | 470 | 716 |
| 75° | 0 | 325 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15978 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1902.1 | 28.3 |
| 10°-20° | 3063.4 | 45.5 |
| 20°-30° | 1323.8 | 19.7 |
| 30°-40° | 301.7 | 4.5 |
| 40°-50° | 103.6 | 1.5 |
| 50°-60° | 25.3 | 0.4 |
| 60°-70° | 6.6 | 0.1 |
| 70°-80° | 0.7 | 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° | 6289.2 | 93.5 |
| 0°-40° | 6590.9 | 98.0 |
| 0°-60° | 6719.8 | 99.9 |
| 0°-90° | 6727.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6727.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 21631 | 21631 | 21631 | 21631 | 21631 | |
| 5° | 20930 | 20910 | 20906 | 20949 | 20931 | 1904 |
| 15° | 11469 | 11330 | 11407 | 11370 | 11350 | 3071 |
| 25° | 2695 | 2797 | 3039 | 2726 | 2640 | 1290 |
| 35° | 452 | 462 | 433 | 430 | 363 | 307 |
| 45° | 119 | 148 | 148 | 148 | 120 | 84 |
| 55° | 19 | 20 | 36 | 21 | 20 | 19 |
| 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 |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 21630.8 | 21630.8 | 21630.8 | 21630.8 | 21630.8 |
| 2.5° | 21487.5 | 21472.6 | 21481.1 | 21491.7 | 21496.0 |
| 5° | 20929.9 | 20909.7 | 20905.5 | 20949.0 | 20931.0 |
| 7.5° | 19805.3 | 19776.6 | 19733.0 | 19831.8 | 19924.2 |
| 10° | 17921.3 | 17889.4 | 17794.9 | 17841.6 | 17917.0 |
| 12.5° | 15139.9 | 15036.9 | 15034.8 | 15183.4 | 15163.3 |
| 15° | 11468.6 | 11330.5 | 11407.0 | 11369.8 | 11349.6 |
| 17.5° | 7712.3 | 7659.2 | 7761.1 | 7730.3 | 7597.6 |
| 20° | 5547.9 | 5561.7 | 5756.0 | 5658.3 | 5540.5 |
| 22.5° | 4048.3 | 4098.3 | 4328.7 | 4077.0 | 3984.6 |
| 25° | 2695.4 | 2797.3 | 3039.4 | 2726.2 | 2640.1 |
| 27.5° | 1657.8 | 1704.5 | 1949.8 | 1636.5 | 1589.8 |
| 30° | 1031.2 | 1007.8 | 1123.6 | 964.3 | 898.5 |
| 32.5° | 676.5 | 646.8 | 683.9 | 613.8 | 560.7 |
| 35° | 452.4 | 462.0 | 433.3 | 430.1 | 363.2 |
| 37.5° | 282.5 | 325.0 | 286.7 | 305.9 | 233.6 |
| 40° | 182.7 | 235.8 | 202.8 | 224.1 | 172.0 |
| 42.5° | 149.7 | 181.6 | 166.7 | 177.4 | 152.9 |
| 45° | 118.9 | 147.6 | 147.6 | 147.6 | 120.0 |
| 47.5° | 65.8 | 98.8 | 126.4 | 100.9 | 70.1 |
| 50° | 37.2 | 49.9 | 97.7 | 52.0 | 39.3 |
| 52.5° | 25.5 | 28.7 | 66.9 | 29.7 | 26.6 |
| 55° | 19.1 | 20.2 | 36.1 | 21.2 | 20.2 |
| 57.5° | 14.9 | 15.9 | 19.1 | 15.9 | 14.9 |
| 60° | 11.7 | 11.7 | 13.8 | 12.7 | 11.7 |
| 62.5° | 8.5 | 8.5 | 9.6 | 8.5 | 8.5 |
| 65° | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| 67.5° | 3.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 70° | 3.2 | 2.1 | 2.1 | 2.1 | 3.2 |
| 72.5° | 2.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 75° | 0.0 | 0.0 | 1.1 | 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

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Scaled Data Report





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

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