

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: P743130

Luminaire Tested: LD4D15D010-EU4DR300215IC9030-4LBCSSQMMS

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743130
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: LD4D15D010-EU4DR300215IC9030-4LBCSSQMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1197.5 lumens
Efficiency: N/A
Efficacy: 75.8 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): 15.8
Input Voltage (V): NR
Input Current (A_{in}): 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

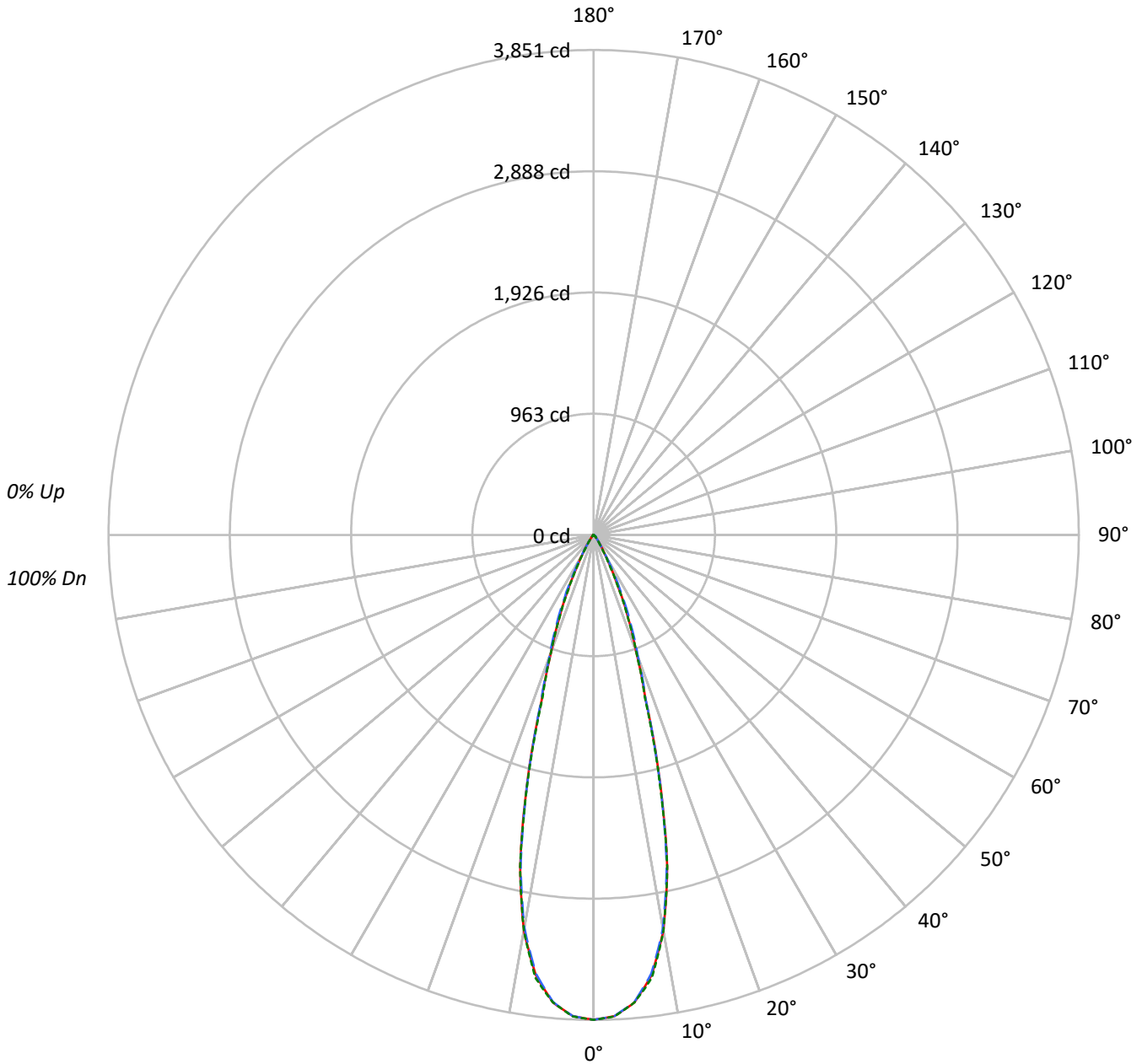


Downlight



TEST NUMBER: P743130
CATALOG NUMBER: LD4D15D010-EU4DR300215IC9030-4LBCSSQMMS

Luminous Intensity Polar Plot





TEST NUMBER: P743130

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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° | 294738 | 294738 | 294738 |
| 5° | 286275 | 285937 | 286290 |
| 10° | 247956 | 246207 | 247894 |
| 15° | 161776 | 160912 | 160104 |
| 20° | 80446 | 83468 | 80340 |
| 25° | 40522 | 45691 | 39694 |
| 30° | 16227 | 17677 | 14133 |
| 35° | 7531 | 7204 | 6036 |
| 40° | 3247 | 3607 | 3068 |
| 45° | 2295 | 2847 | 2317 |
| 50° | 786 | 2072 | 834 |
| 55° | 454 | 854 | 480 |
| 60° | 321 | 383 | 321 |
| 65° | 199 | 199 | 199 |
| 70° | 134 | 90 | 134 |
| 75° | 0 | 59 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2847 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 338.6 | 28.3 |
| 10°-20° | 545.3 | 45.5 |
| 20°-30° | 235.6 | 19.7 |
| 30°-40° | 53.7 | 4.5 |
| 40°-50° | 18.4 | 1.5 |
| 50°-60° | 4.5 | 0.4 |
| 60°-70° | 1.2 | 0.1 |
| 70°-80° | 0.1 | 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° | 1119.6 | 93.5 |
| 0°-40° | 1173.3 | 98.0 |
| 0°-60° | 1196.2 | 99.9 |
| 0°-90° | 1197.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1197.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3851 | 3851 | 3851 | 3851 | 3851 | |
| 5° | 3726 | 3722 | 3721 | 3729 | 3726 | 339 |
| 15° | 2042 | 2017 | 2031 | 2024 | 2020 | 547 |
| 25° | 480 | 498 | 541 | 485 | 470 | 230 |
| 35° | 81 | 82 | 77 | 76 | 65 | 55 |
| 45° | 21 | 26 | 26 | 26 | 21 | 15 |
| 55° | 3 | 4 | 6 | 4 | 4 | 3 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 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° | 3850.6 | 3850.6 | 3850.6 | 3850.6 | 3850.6 |
| 2.5° | 3825.0 | 3822.4 | 3823.9 | 3825.8 | 3826.6 |
| 5° | 3725.8 | 3722.2 | 3721.4 | 3729.2 | 3726.0 |
| 7.5° | 3525.6 | 3520.5 | 3512.7 | 3530.3 | 3546.7 |
| 10° | 3190.2 | 3184.5 | 3167.7 | 3176.0 | 3189.4 |
| 12.5° | 2695.1 | 2676.8 | 2676.4 | 2702.8 | 2699.2 |
| 15° | 2041.5 | 2017.0 | 2030.6 | 2023.9 | 2020.4 |
| 17.5° | 1372.9 | 1363.5 | 1381.6 | 1376.1 | 1352.5 |
| 20° | 987.6 | 990.1 | 1024.7 | 1007.2 | 986.3 |
| 22.5° | 720.7 | 729.5 | 770.6 | 725.8 | 709.3 |
| 25° | 479.8 | 498.0 | 541.0 | 485.3 | 470.0 |
| 27.5° | 295.1 | 303.4 | 347.1 | 291.3 | 283.0 |
| 30° | 183.6 | 179.4 | 200.0 | 171.7 | 159.9 |
| 32.5° | 120.4 | 115.1 | 121.8 | 109.3 | 99.8 |
| 35° | 80.6 | 82.2 | 77.1 | 76.5 | 64.6 |
| 37.5° | 50.3 | 57.9 | 51.0 | 54.4 | 41.6 |
| 40° | 32.5 | 42.0 | 36.1 | 39.9 | 30.7 |
| 42.5° | 26.6 | 32.3 | 29.7 | 31.6 | 27.2 |
| 45° | 21.2 | 26.3 | 26.3 | 26.3 | 21.4 |
| 47.5° | 11.7 | 17.6 | 22.5 | 17.9 | 12.5 |
| 50° | 6.6 | 8.9 | 17.4 | 9.3 | 7.0 |
| 52.5° | 4.5 | 5.1 | 11.9 | 5.3 | 4.7 |
| 55° | 3.4 | 3.6 | 6.4 | 3.8 | 3.6 |
| 57.5° | 2.6 | 2.8 | 3.4 | 2.8 | 2.6 |
| 60° | 2.1 | 2.1 | 2.5 | 2.3 | 2.1 |
| 62.5° | 1.5 | 1.5 | 1.7 | 1.5 | 1.5 |
| 65° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 67.5° | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 |
| 70° | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 |
| 72.5° | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 |
| 75° | 0.0 | 0.0 | 0.2 | 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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