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: P745836

Luminaire Tested: LD4D30D010-EU4DR2015309030-4LBCSSQMMS

Issue Date: 2/2/2024

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Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | P745836 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36) |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Issue Date: | 2/2/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | PORTFOLIO |
| Catalog Number: | LD4D30D010-EU4DR2015309030-4LBCSSQMMS |
| Description: | 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 20° OPTIC |
| Light Source: | (1) HIGH LUMEN LED 90CRI / 3000K CCT |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 2652.3 lumens |
| Efficiency: | N/A |
| Efficacy: | 91.5 lumens/watt |
| Spacing Criteria (0/90/45): | 0.34 / 0.34 / 0.36 |
| Luminous Opening: | Circular (Dia: 0.35' x H: 0') |
| CIE Type: | Direct |

| | |
|---|---|
| Input Watts (W): | 29 |
| 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 |

Downlight

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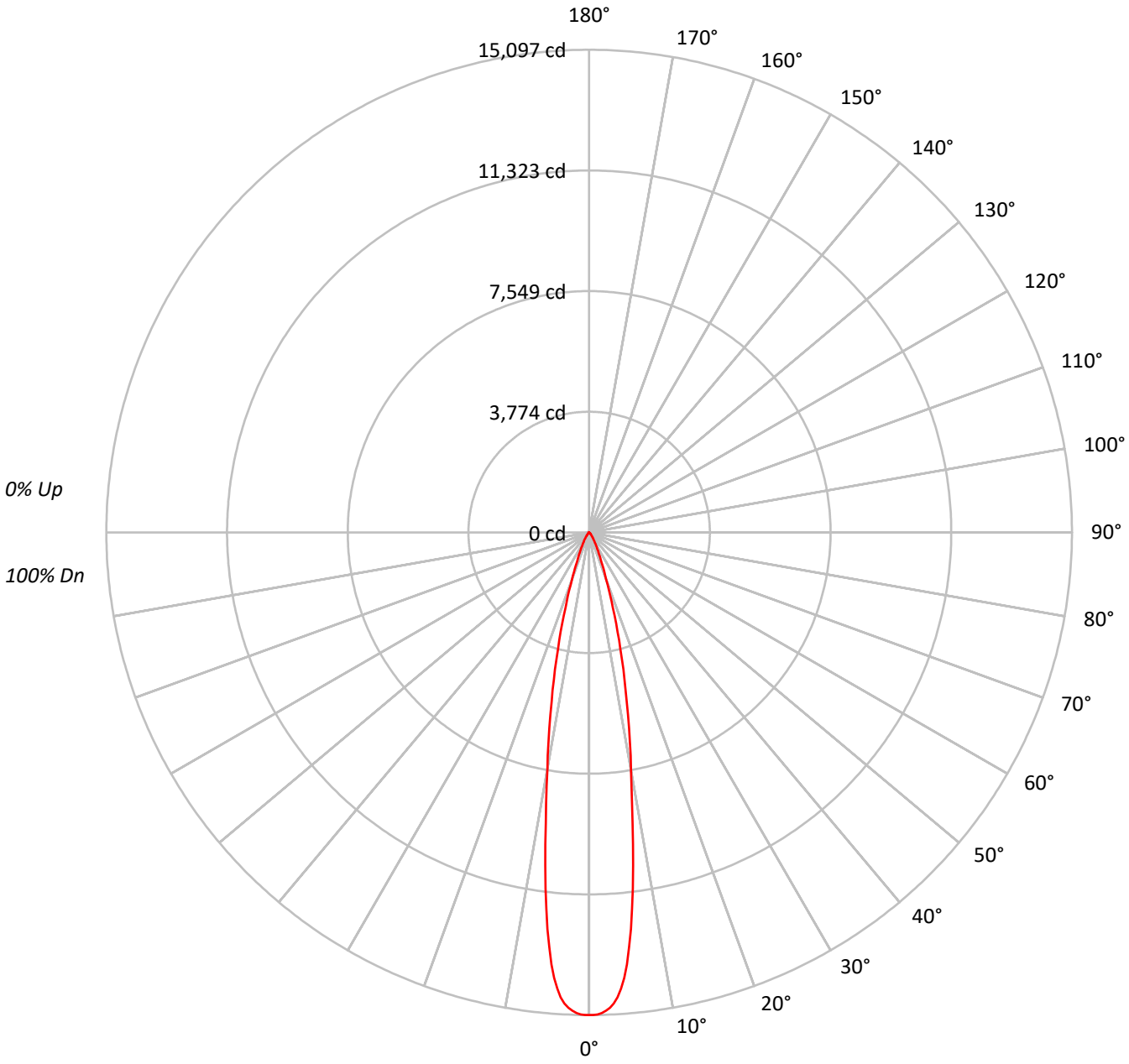
## Luminous Intensity Polar Plot



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## COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| RF | 20 | | | | 20 | | | | 20 | | | 20 | | | 20 | | | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 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 | 113 | 111 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 |
| 2 | 111 | 108 | 105 | 102 | 109 | 106 | 104 | 101 | 103 | 101 | 99 | 100 | 99 | 97 | 98 | 96 | 95 | 94 |
| 3 | 108 | 103 | 100 | 97 | 106 | 102 | 99 | 96 | 100 | 97 | 95 | 97 | 95 | 93 | 95 | 93 | 92 | 91 |
| 4 | 105 | 99 | 96 | 93 | 103 | 98 | 95 | 92 | 96 | 93 | 91 | 95 | 92 | 90 | 93 | 91 | 89 | 88 |
| 5 | 102 | 96 | 92 | 89 | 100 | 95 | 91 | 89 | 94 | 90 | 88 | 92 | 89 | 87 | 91 | 88 | 86 | 85 |
| 6 | 99 | 93 | 89 | 86 | 98 | 92 | 88 | 86 | 91 | 87 | 85 | 90 | 87 | 84 | 88 | 86 | 84 | 83 |
| 7 | 96 | 90 | 86 | 83 | 95 | 89 | 86 | 83 | 88 | 85 | 82 | 87 | 84 | 82 | 86 | 84 | 82 | 81 |
| 8 | 94 | 87 | 83 | 81 | 93 | 87 | 83 | 80 | 86 | 83 | 80 | 85 | 82 | 80 | 84 | 82 | 80 | 79 |
| 9 | 91 | 85 | 81 | 78 | 91 | 85 | 81 | 78 | 84 | 80 | 78 | 83 | 80 | 78 | 82 | 80 | 78 | 77 |
| 10 | 89 | 83 | 79 | 76 | 88 | 82 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 76 | 81 | 78 | 76 | 75 |

## AVERAGE LUMINANCE (cd/sqm):

| | 0° |
|---|---|
| 0° | 1649477 |
| 5° | 1488135 |
| 10° | 835226 |
| 15° | 424555 |
| 20° | 179758 |
| 25° | 82979 |
| 30° | 43930 |
| 35° | 23675 |
| 40° | 12651 |
| 45° | 7479 |
| 50° | 4334 |
| 55° | 2305 |
| 60° | 1464 |
| 65° | 1034 |
| 70° | 415 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

## MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7479 cd/sqm

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**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 1074.9 | 40.5 |
| 10°-20° | 1058.4 | 39.9 |
| 20°-30° | 345.8 | 13.0 |
| 30°-40° | 117.7 | 4.4 |
| 40°-50° | 39.6 | 1.5 |
| 50°-60° | 11.9 | 0.4 |
| 60°-70° | 4.0 | 0.1 |
| 70°-80° | 0.2 | 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° | 2479.0 | 93.5 |
| 0°-40° | 2596.8 | 97.9 |
| 0°-60° | 2648.2 | 99.8 |
| 0°-90° | 2652.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2652.3 | 100.0 |

**CANDELA DISTRIBUTION:**

| | 0° | Flux |
|---|---|---|
| 0° | 15097 | |
| 5° | 13568 | ### |
| 15° | 3753 | 1058 |
| 25° | 688 | 346 |
| 35° | 178 | 118 |
| 45° | 48 | 40 |
| 55° | 12 | 12 |
| 65° | 4 | 4 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |

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**CANDELA DISTRIBUTION (FULL):**

| | 0° |
|---|---|
| 0° | 15096.7 |
| 0.5° | 15096.7 |
| 1° | 15077.9 |
| 1.5° | 15040.3 |
| 2° | 14971.7 |
| 2.5° | 14880.3 |
| 3° | 14751.2 |
| 3.5° | 14571.1 |
| 4° | 14303.6 |
| 4.5° | 13978.3 |
| 5° | 13568.2 |
| 5.5° | 13029.2 |
| 6° | 12476.7 |
| 6.5° | 11843.5 |
| 7° | 11223.7 |
| 7.5° | 10497.8 |
| 8° | 9849.9 |
| 8.5° | 9197.9 |
| 9° | 8595.6 |
| 9.5° | 8043.1 |
| 10° | 7528.2 |
| 12.5° | 5405.5 |
| 15° | 3753.3 |
| 17.5° | 2452.0 |
| 20° | 1546.0 |
| 22.5° | 1001.5 |
| 25° | 688.3 |
| 27.5° | 484.0 |
| 30° | 348.2 |
| 32.5° | 250.0 |
| 35° | 177.5 |
| 37.5° | 123.7 |
| 40° | 88.7 |
| 42.5° | 64.5 |
| 45° | 48.4 |
| 47.5° | 37.6 |
| 50° | 25.5 |
| 52.5° | 16.1 |
| 55° | 12.1 |
| 57.5° | 9.4 |
| 60° | 6.7 |
| 62.5° | 5.4 |
| 65° | 4.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° |
|---|---|
| 72.5° | *0.0* |
| 75° | *0.0* |
| 77.5° | *0.0* |
| 80° | *0.0* |
| 82.5° | *0.0* |
| 85° | *0.0* |
| 87.5° | *0.0* |
| 90° | *0.0* |

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report

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Scaled Data Report

0°-180°

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| | |
|---|---|
| 67.5° | *2.7* |
| 70° | *1.3* |

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(END OF REPORT)