

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: P751468

Luminaire Tested: LD4D65D010-EU4DR3055659035-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751468
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: LD4D65D010-EU4DR3055659035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6566.6 lumens
Efficiency: N/A
Efficacy: 90.2 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

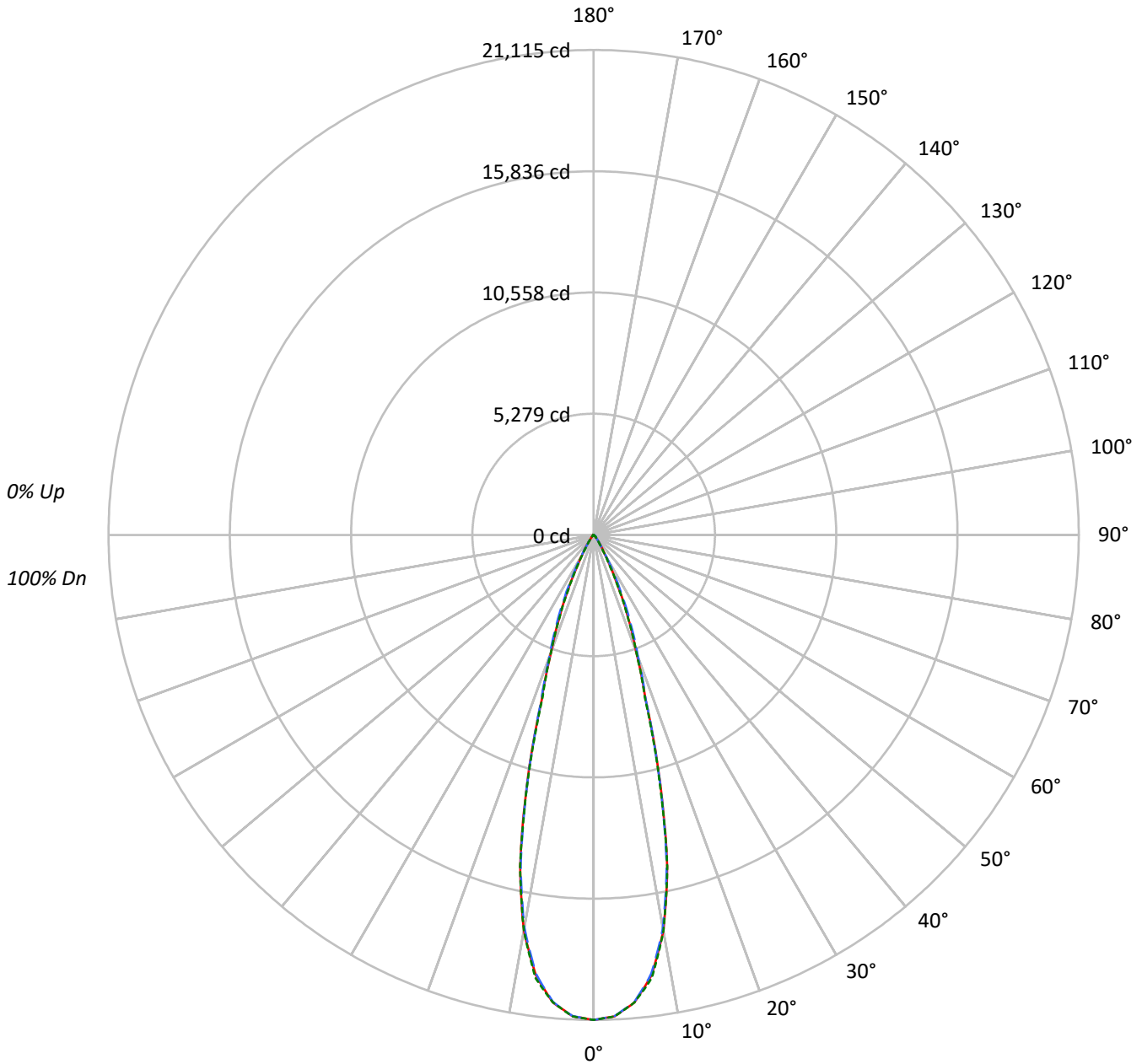
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P751468
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Luminous Intensity Polar Plot





TEST NUMBER: P751468

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1616214 | 1616214 | 1616214 |
| 5° | 1569816 | 1567980 | 1569893 |
| 10° | 1359699 | 1350108 | 1359373 |
| 15° | 887132 | 882369 | 877931 |
| 20° | 441132 | 457684 | 440537 |
| 25° | 222213 | 250582 | 217661 |
| 30° | 88968 | 96940 | 77513 |
| 35° | 41264 | 39526 | 33125 |
| 40° | 17816 | 19784 | 16777 |
| 45° | 12568 | 15599 | 12676 |
| 50° | 4323 | 11360 | 4573 |
| 55° | 2496 | 4697 | 2629 |
| 60° | 1745 | 2067 | 1745 |
| 65° | 1123 | 1123 | 1123 |
| 70° | 694 | 470 | 694 |
| 75° | 0 | 296 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15599 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1856.7 | 28.3 |
| 10°-20° | 2990.3 | 45.5 |
| 20°-30° | 1292.2 | 19.7 |
| 30°-40° | 294.5 | 4.5 |
| 40°-50° | 101.1 | 1.5 |
| 50°-60° | 24.7 | 0.4 |
| 60°-70° | 6.4 | 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° | 6139.2 | 93.5 |
| 0°-40° | 6433.7 | 98.0 |
| 0°-60° | 6559.6 | 99.9 |
| 0°-90° | 6566.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6566.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 21115 | 21115 | 21115 | 21115 | 21115 | |
| 5° | 20431 | 20411 | 20407 | 20449 | 20432 | 1858 |
| 15° | 11195 | 11060 | 11135 | 11099 | 11079 | 2998 |
| 25° | 2631 | 2731 | 2967 | 2661 | 2577 | 1259 |
| 35° | 442 | 451 | 423 | 420 | 354 | 300 |
| 45° | 116 | 144 | 144 | 144 | 117 | 82 |
| 55° | 19 | 20 | 35 | 21 | 20 | 18 |
| 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° | 21115.0 | 21115.0 | 21115.0 | 21115.0 | 21115.0 |
| 2.5° | 20975.0 | 20960.5 | 20968.8 | 20979.2 | 20983.3 |
| 5° | 20430.8 | 20411.1 | 20406.9 | 20449.4 | 20431.8 |
| 7.5° | 19332.9 | 19304.9 | 19262.4 | 19358.8 | 19449.0 |
| 10° | 17493.9 | 17462.8 | 17370.5 | 17416.1 | 17489.7 |
| 12.5° | 14778.8 | 14678.3 | 14676.2 | 14821.3 | 14801.6 |
| 15° | 11195.0 | 11060.3 | 11134.9 | 11098.6 | 11078.9 |
| 17.5° | 7528.3 | 7476.5 | 7576.0 | 7545.9 | 7416.4 |
| 20° | 5415.6 | 5429.1 | 5618.8 | 5523.4 | 5408.3 |
| 22.5° | 3951.8 | 4000.5 | 4225.5 | 3979.8 | 3889.6 |
| 25° | 2631.1 | 2730.6 | 2967.0 | 2661.1 | 2577.2 |
| 27.5° | 1618.2 | 1663.9 | 1903.3 | 1597.5 | 1551.9 |
| 30° | 1006.6 | 983.8 | 1096.8 | 941.3 | 877.0 |
| 32.5° | 660.4 | 631.3 | 667.6 | 599.2 | 547.4 |
| 35° | 441.6 | 451.0 | 423.0 | 419.9 | 354.5 |
| 37.5° | 275.8 | 317.2 | 279.9 | 298.6 | 228.1 |
| 40° | 178.3 | 230.1 | 198.0 | 218.7 | 167.9 |
| 42.5° | 146.2 | 177.3 | 162.8 | 173.1 | 149.3 |
| 45° | 116.1 | 144.1 | 144.1 | 144.1 | 117.1 |
| 47.5° | 64.3 | 96.4 | 123.4 | 98.5 | 68.4 |
| 50° | 36.3 | 48.7 | 95.4 | 50.8 | 38.4 |
| 52.5° | 24.9 | 28.0 | 65.3 | 29.0 | 25.9 |
| 55° | 18.7 | 19.7 | 35.2 | 20.7 | 19.7 |
| 57.5° | 14.5 | 15.6 | 18.7 | 15.6 | 14.5 |
| 60° | 11.4 | 11.4 | 13.5 | 12.4 | 11.4 |
| 62.5° | 8.3 | 8.3 | 9.3 | 8.3 | 8.3 |
| 65° | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| 67.5° | 3.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 70° | 3.1 | 2.1 | 2.1 | 2.1 | 3.1 |
| 72.5° | 2.1 | 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

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Scaled Data Report





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

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