

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: P751462

Luminaire Tested: LD4D65D010-EU4DR3055659030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751462
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-EU4DR3055659030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4934.6 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

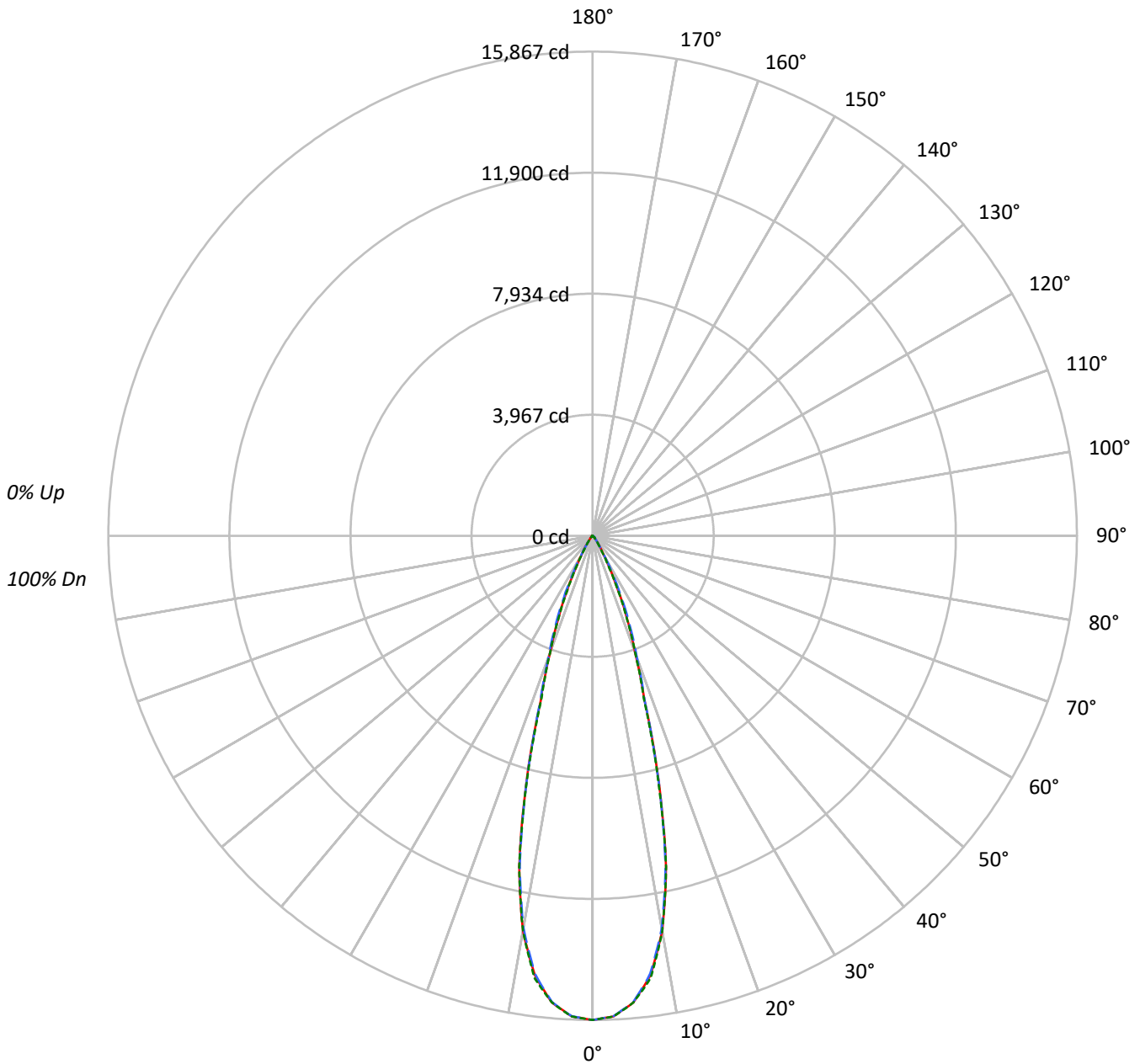
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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° | 1214529 | 1214529 | 1214529 |
| 5° | 1179667 | 1178284 | 1179721 |
| 10° | 1021770 | 1014565 | 1021529 |
| 15° | 666652 | 663070 | 659742 |
| 20° | 331492 | 343931 | 331053 |
| 25° | 166987 | 188304 | 163567 |
| 30° | 66854 | 72847 | 58254 |
| 35° | 31013 | 29696 | 24893 |
| 40° | 13389 | 14868 | 12610 |
| 45° | 9450 | 11723 | 9526 |
| 50° | 3251 | 8538 | 3430 |
| 55° | 1868 | 3536 | 1975 |
| 60° | 1317 | 1546 | 1317 |
| 65° | 851 | 851 | 851 |
| 70° | 515 | 358 | 515 |
| 75° | 0 | 237 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11723 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1395.3 | 28.3 |
| 10°-20° | 2247.1 | 45.5 |
| 20°-30° | 971.0 | 19.7 |
| 30°-40° | 221.3 | 4.5 |
| 40°-50° | 76.0 | 1.5 |
| 50°-60° | 18.6 | 0.4 |
| 60°-70° | 4.8 | 0.1 |
| 70°-80° | 0.5 | 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° | 4613.4 | 93.5 |
| 0°-40° | 4834.8 | 98.0 |
| 0°-60° | 4929.3 | 99.9 |
| 0°-90° | 4934.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4934.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 15867 | 15867 | 15867 | 15867 | 15867 | |
| 5° | 15353 | 15338 | 15335 | 15367 | 15354 | 1396 |
| 15° | 8413 | 8311 | 8368 | 8340 | 8326 | 2253 |
| 25° | 1977 | 2052 | 2230 | 2000 | 1937 | 946 |
| 35° | 332 | 339 | 318 | 316 | 266 | 225 |
| 45° | 87 | 108 | 108 | 108 | 88 | 62 |
| 55° | 14 | 15 | 26 | 16 | 15 | 14 |
| 65° | 5 | 5 | 5 | 5 | 5 | 5 |
| 75° | 0 | 0 | 1 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P751462

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 15867.2 | 15867.2 | 15867.2 | 15867.2 | 15867.2 |
| 2.5° | 15762.1 | 15751.1 | 15757.4 | 15765.2 | 15768.3 |
| 5° | 15353.1 | 15338.3 | 15335.1 | 15367.1 | 15353.8 |
| 7.5° | 14528.1 | 14507.0 | 14475.1 | 14547.5 | 14615.3 |
| 10° | 13146.1 | 13122.7 | 13053.4 | 13087.7 | 13143.0 |
| 12.5° | 11105.8 | 11030.2 | 11028.7 | 11137.7 | 11122.9 |
| 15° | 8412.7 | 8311.4 | 8367.5 | 8340.3 | 8325.5 |
| 17.5° | 5657.3 | 5618.3 | 5693.1 | 5670.5 | 5573.2 |
| 20° | 4069.6 | 4079.8 | 4222.3 | 4150.7 | 4064.2 |
| 22.5° | 2969.7 | 3006.3 | 3175.3 | 2990.7 | 2922.9 |
| 25° | 1977.2 | 2052.0 | 2229.6 | 1999.8 | 1936.7 |
| 27.5° | 1216.1 | 1250.3 | 1430.3 | 1200.5 | 1166.2 |
| 30° | 756.4 | 739.3 | 824.2 | 707.4 | 659.1 |
| 32.5° | 496.2 | 474.4 | 501.7 | 450.3 | 411.3 |
| 35° | 331.9 | 338.9 | 317.8 | 315.5 | 266.4 |
| 37.5° | 207.2 | 238.4 | 210.3 | 224.4 | 171.4 |
| 40° | 134.0 | 172.9 | 148.8 | 164.4 | 126.2 |
| 42.5° | 109.8 | 133.2 | 122.3 | 130.1 | 112.2 |
| 45° | 87.3 | 108.3 | 108.3 | 108.3 | 88.0 |
| 47.5° | 48.3 | 72.4 | 92.7 | 74.0 | 51.4 |
| 50° | 27.3 | 36.6 | 71.7 | 38.2 | 28.8 |
| 52.5° | 18.7 | 21.0 | 49.1 | 21.8 | 19.5 |
| 55° | 14.0 | 14.8 | 26.5 | 15.6 | 14.8 |
| 57.5° | 10.9 | 11.7 | 14.0 | 11.7 | 10.9 |
| 60° | 8.6 | 8.6 | 10.1 | 9.3 | 8.6 |
| 62.5° | 6.2 | 6.2 | 7.0 | 6.2 | 6.2 |
| 65° | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| 67.5° | 2.3 | 3.1 | 3.1 | 3.1 | 3.1 |
| 70° | 2.3 | 1.6 | 1.6 | 1.6 | 2.3 |
| 72.5° | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| 75° | 0.0 | 0.0 | 0.8 | 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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