

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: P772622

Luminaire Tested: LD6D85BD010-EU6DR3070959027-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD6D85BD010-EU6DR3070959027-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8906.5 lumens
Efficiency: N/A
Efficacy: 101.6 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

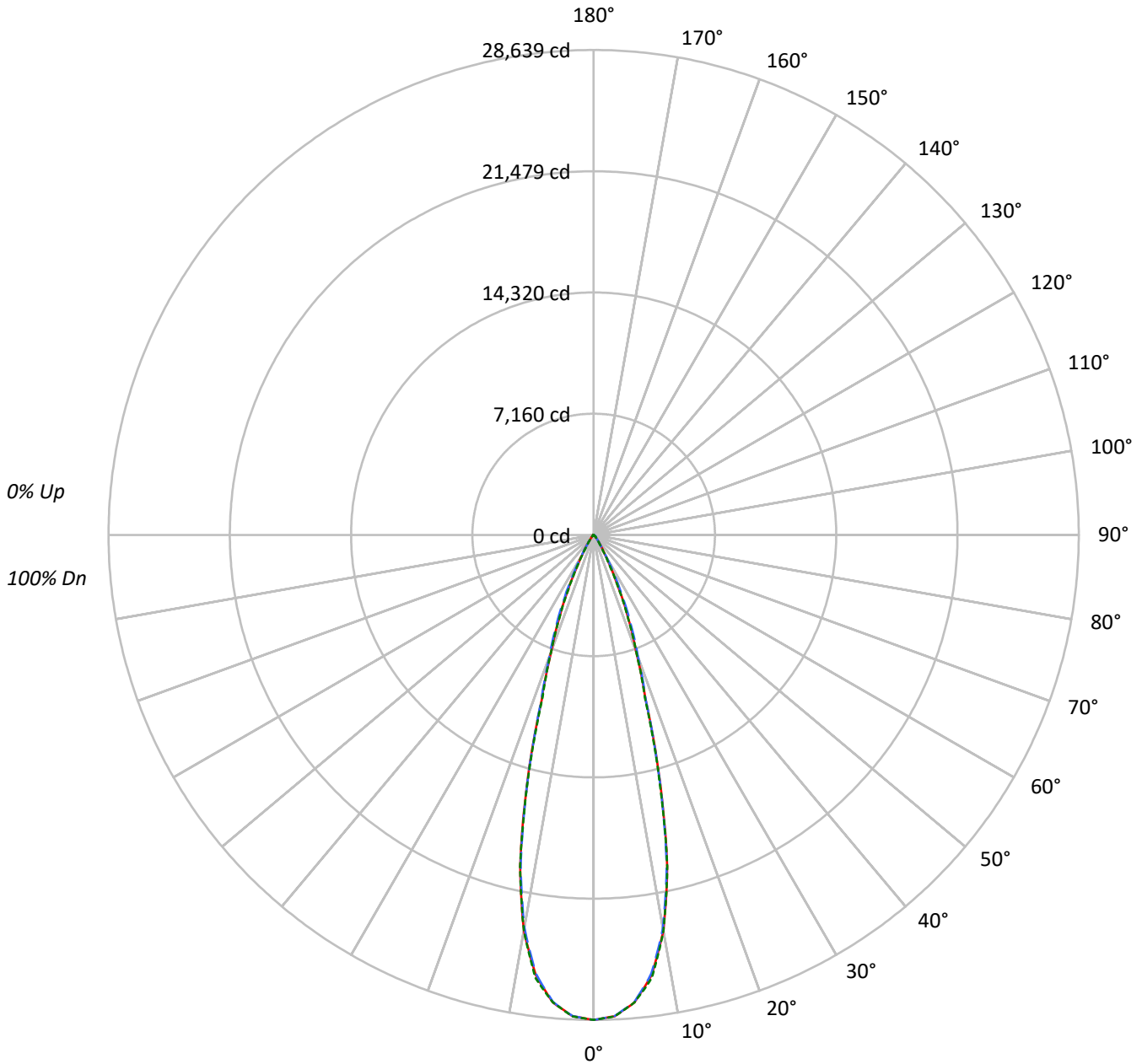
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 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° | 2192103 | 2192103 | 2192103 |
| 5° | 2129173 | 2126691 | 2129281 |
| 10° | 1844193 | 1831182 | 1843750 |
| 15° | 1203242 | 1196776 | 1190761 |
| 20° | 598317 | 620766 | 597511 |
| 25° | 301391 | 339869 | 295217 |
| 30° | 120672 | 131481 | 105134 |
| 35° | 55972 | 53608 | 44936 |
| 40° | 24161 | 26839 | 22762 |
| 45° | 17049 | 21152 | 17201 |
| 50° | 5859 | 15409 | 6192 |
| 55° | 3376 | 6379 | 3563 |
| 60° | 2373 | 2801 | 2373 |
| 65° | 1521 | 1521 | 1521 |
| 70° | 940 | 627 | 940 |
| 75° | 0 | 414 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 21152 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2518.3 | 28.3 |
| 10°-20° | 4055.8 | 45.5 |
| 20°-30° | 1752.6 | 19.7 |
| 30°-40° | 399.5 | 4.5 |
| 40°-50° | 137.2 | 1.5 |
| 50°-60° | 33.5 | 0.4 |
| 60°-70° | 8.7 | 0.1 |
| 70°-80° | 0.9 | 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° | 8326.8 | 93.5 |
| 0°-40° | 8726.2 | 98.0 |
| 0°-60° | 8896.9 | 99.9 |
| 0°-90° | 8906.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8906.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 28639 | 28639 | 28639 | 28639 | 28639 | |
| 5° | 27711 | 27684 | 27678 | 27736 | 27712 | 2520 |
| 15° | 15184 | 15001 | 15102 | 15053 | 15027 | 4066 |
| 25° | 3569 | 3704 | 4024 | 3609 | 3496 | 1708 |
| 35° | 599 | 612 | 574 | 570 | 481 | 406 |
| 45° | 158 | 195 | 195 | 195 | 159 | 112 |
| 55° | 25 | 27 | 48 | 28 | 27 | 25 |
| 65° | 8 | 8 | 8 | 8 | 8 | 8 |
| 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° | 28638.7 | 28638.7 | 28638.7 | 28638.7 | 28638.7 |
| 2.5° | 28448.9 | 28429.2 | 28440.5 | 28454.5 | 28460.2 |
| 5° | 27710.7 | 27684.0 | 27678.4 | 27736.0 | 27712.1 |
| 7.5° | 26221.7 | 26183.8 | 26126.1 | 26256.9 | 26379.2 |
| 10° | 23727.4 | 23685.2 | 23560.0 | 23621.9 | 23721.7 |
| 12.5° | 20044.9 | 19908.5 | 19905.7 | 20102.5 | 20075.8 |
| 15° | 15184.1 | 15001.3 | 15102.5 | 15053.3 | 15026.6 |
| 17.5° | 10210.8 | 10140.5 | 10275.5 | 10234.8 | 10059.0 |
| 20° | 7345.3 | 7363.6 | 7620.9 | 7491.5 | 7335.4 |
| 22.5° | 5359.9 | 5426.0 | 5731.1 | 5397.9 | 5275.6 |
| 25° | 3568.6 | 3703.6 | 4024.2 | 3609.4 | 3495.5 |
| 27.5° | 2194.9 | 2256.7 | 2581.5 | 2166.7 | 2104.9 |
| 30° | 1365.3 | 1334.4 | 1487.6 | 1276.7 | 1189.5 |
| 32.5° | 895.7 | 856.3 | 905.5 | 812.7 | 742.4 |
| 35° | 599.0 | 611.6 | 573.7 | 569.5 | 480.9 |
| 37.5° | 374.0 | 430.3 | 379.6 | 404.9 | 309.3 |
| 40° | 241.8 | 312.1 | 268.6 | 296.7 | 227.8 |
| 42.5° | 198.3 | 240.4 | 220.8 | 234.8 | 202.5 |
| 45° | 157.5 | 195.4 | 195.4 | 195.4 | 158.9 |
| 47.5° | 87.2 | 130.8 | 167.3 | 133.6 | 92.8 |
| 50° | 49.2 | 66.1 | 129.4 | 68.9 | 52.0 |
| 52.5° | 33.7 | 38.0 | 88.6 | 39.4 | 35.2 |
| 55° | 25.3 | 26.7 | 47.8 | 28.1 | 26.7 |
| 57.5° | 19.7 | 21.1 | 25.3 | 21.1 | 19.7 |
| 60° | 15.5 | 15.5 | 18.3 | 16.9 | 15.5 |
| 62.5° | 11.2 | 11.2 | 12.7 | 11.2 | 11.2 |
| 65° | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| 67.5° | 4.2 | 5.6 | 5.6 | 5.6 | 5.6 |
| 70° | 4.2 | 2.8 | 2.8 | 2.8 | 4.2 |
| 72.5° | 2.8 | 1.4 | 1.4 | 1.4 | 1.4 |
| 75° | 0.0 | 0.0 | 1.4 | 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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