

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: P767955

Luminaire Tested: LD6D55D010-EU6DR3055659030-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P767955
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: LD6D55D010-EU6DR3055659030-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

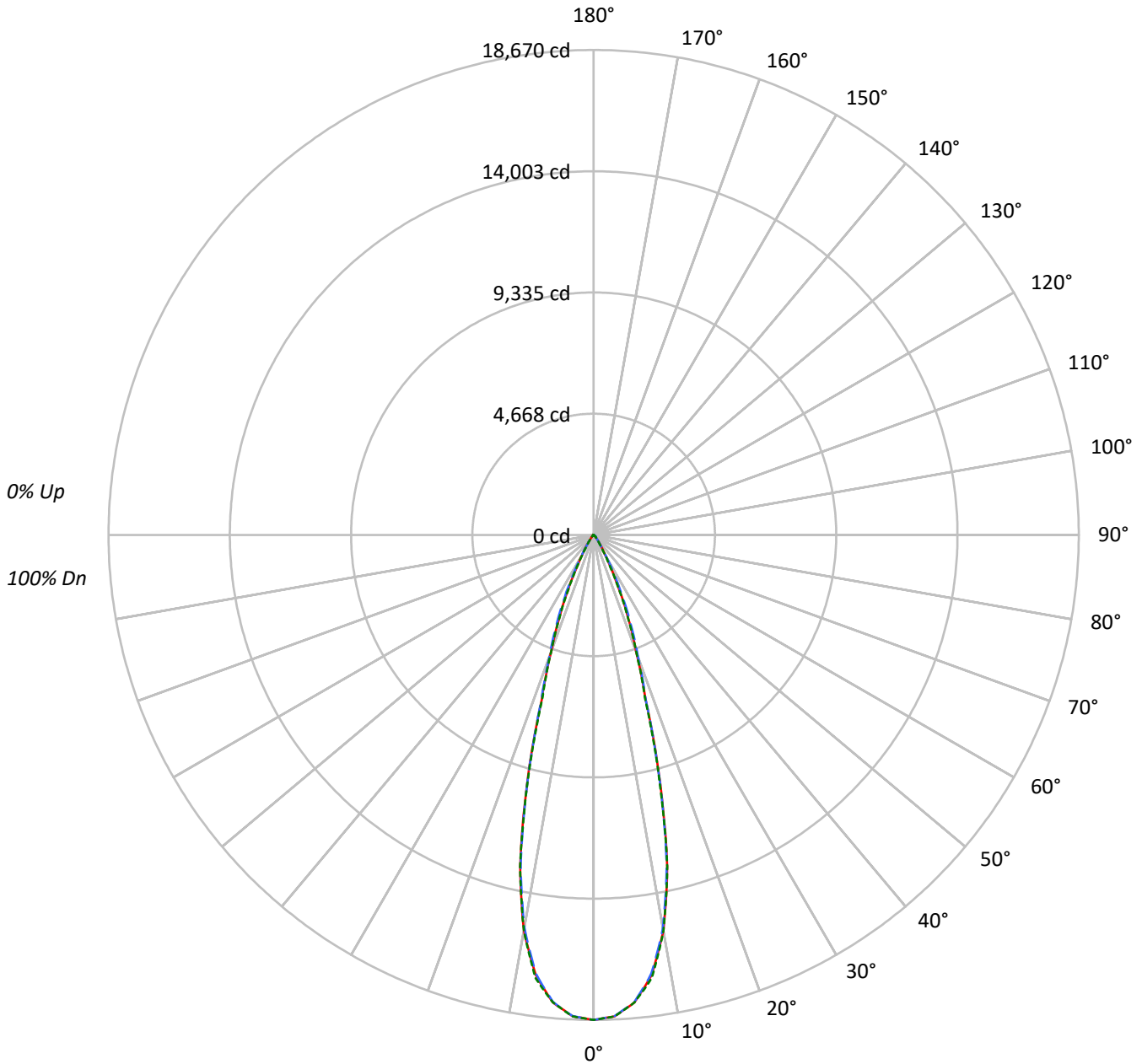
Lumens per Lamp: N/A
Luminaire Lumens: 5806.3 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 58.2
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 | 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° | 1429073 | 1429073 | 1429073 |
| 5° | 1388046 | 1386425 | 1388115 |
| 10° | 1202261 | 1193782 | 1201974 |
| 15° | 784416 | 780200 | 776278 |
| 20° | 390051 | 404689 | 389530 |
| 25° | 196479 | 221563 | 192459 |
| 30° | 78671 | 85715 | 68542 |
| 35° | 36489 | 34947 | 29294 |
| 40° | 15757 | 17496 | 14838 |
| 45° | 11117 | 13791 | 11215 |
| 50° | 3822 | 10038 | 4037 |
| 55° | 2202 | 4164 | 2322 |
| 60° | 1546 | 1822 | 1546 |
| 65° | 996 | 996 | 996 |
| 70° | 604 | 403 | 604 |
| 75° | 0 | 266 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13791 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1641.8 | 28.3 |
| 10°-20° | 2644.1 | 45.5 |
| 20°-30° | 1142.6 | 19.7 |
| 30°-40° | 260.4 | 4.5 |
| 40°-50° | 89.4 | 1.5 |
| 50°-60° | 21.8 | 0.4 |
| 60°-70° | 5.7 | 0.1 |
| 70°-80° | 0.6 | 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° | 5428.4 | 93.5 |
| 0°-40° | 5688.8 | 98.0 |
| 0°-60° | 5800.0 | 99.9 |
| 0°-90° | 5806.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5806.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 18670 | 18670 | 18670 | 18670 | 18670 | |
| 5° | 18065 | 18048 | 18044 | 18082 | 18066 | 1643 |
| 15° | 9899 | 9780 | 9846 | 9814 | 9796 | 2651 |
| 25° | 2326 | 2414 | 2623 | 2353 | 2279 | 1114 |
| 35° | 390 | 399 | 374 | 371 | 314 | 265 |
| 45° | 103 | 127 | 127 | 127 | 104 | 73 |
| 55° | 16 | 17 | 31 | 18 | 17 | 16 |
| 65° | 6 | 6 | 6 | 6 | 6 | 5 |
| 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° | 18670.1 | 18670.1 | 18670.1 | 18670.1 | 18670.1 |
| 2.5° | 18546.4 | 18533.5 | 18540.9 | 18550.0 | 18553.7 |
| 5° | 18065.1 | 18047.7 | 18044.0 | 18081.6 | 18066.0 |
| 7.5° | 17094.4 | 17069.6 | 17032.1 | 17117.3 | 17197.1 |
| 10° | 15468.3 | 15440.8 | 15359.2 | 15399.5 | 15464.6 |
| 12.5° | 13067.6 | 12978.7 | 12976.9 | 13105.2 | 13087.8 |
| 15° | 9898.8 | 9779.6 | 9845.6 | 9813.5 | 9796.1 |
| 17.5° | 6656.6 | 6610.8 | 6698.8 | 6672.2 | 6557.6 |
| 20° | 4788.5 | 4800.4 | 4968.2 | 4883.9 | 4782.1 |
| 22.5° | 3494.2 | 3537.3 | 3736.2 | 3519.0 | 3439.2 |
| 25° | 2326.4 | 2414.4 | 2623.4 | 2353.0 | 2278.8 |
| 27.5° | 1430.9 | 1471.2 | 1682.9 | 1412.5 | 1372.2 |
| 30° | 890.1 | 869.9 | 969.8 | 832.3 | 775.5 |
| 32.5° | 583.9 | 558.2 | 590.3 | 529.8 | 484.0 |
| 35° | 390.5 | 398.7 | 374.0 | 371.2 | 313.5 |
| 37.5° | 243.8 | 280.5 | 247.5 | 264.0 | 201.7 |
| 40° | 157.7 | 203.5 | 175.1 | 193.4 | 148.5 |
| 42.5° | 129.2 | 156.7 | 143.9 | 153.1 | 132.0 |
| 45° | 102.7 | 127.4 | 127.4 | 127.4 | 103.6 |
| 47.5° | 56.8 | 85.2 | 109.1 | 87.1 | 60.5 |
| 50° | 32.1 | 43.1 | 84.3 | 44.9 | 33.9 |
| 52.5° | 22.0 | 24.7 | 57.7 | 25.7 | 22.9 |
| 55° | 16.5 | 17.4 | 31.2 | 18.3 | 17.4 |
| 57.5° | 12.8 | 13.7 | 16.5 | 13.7 | 12.8 |
| 60° | 10.1 | 10.1 | 11.9 | 11.0 | 10.1 |
| 62.5° | 7.3 | 7.3 | 8.2 | 7.3 | 7.3 |
| 65° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| 67.5° | 2.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 70° | 2.7 | 1.8 | 1.8 | 1.8 | 2.7 |
| 72.5° | 1.8 | 0.9 | 0.9 | 0.9 | 0.9 |
| 75° | 0.0 | 0.0 | 0.9 | 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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