

Signify Classified - Internal
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: P793294

Luminaire Tested: LER6D50D010-EC6DR3040509050-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793294
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: LER6D50D010-EC6DR3040509050-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5994.7 lumens
Efficiency: N/A
Efficacy: 127.5 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): 47
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

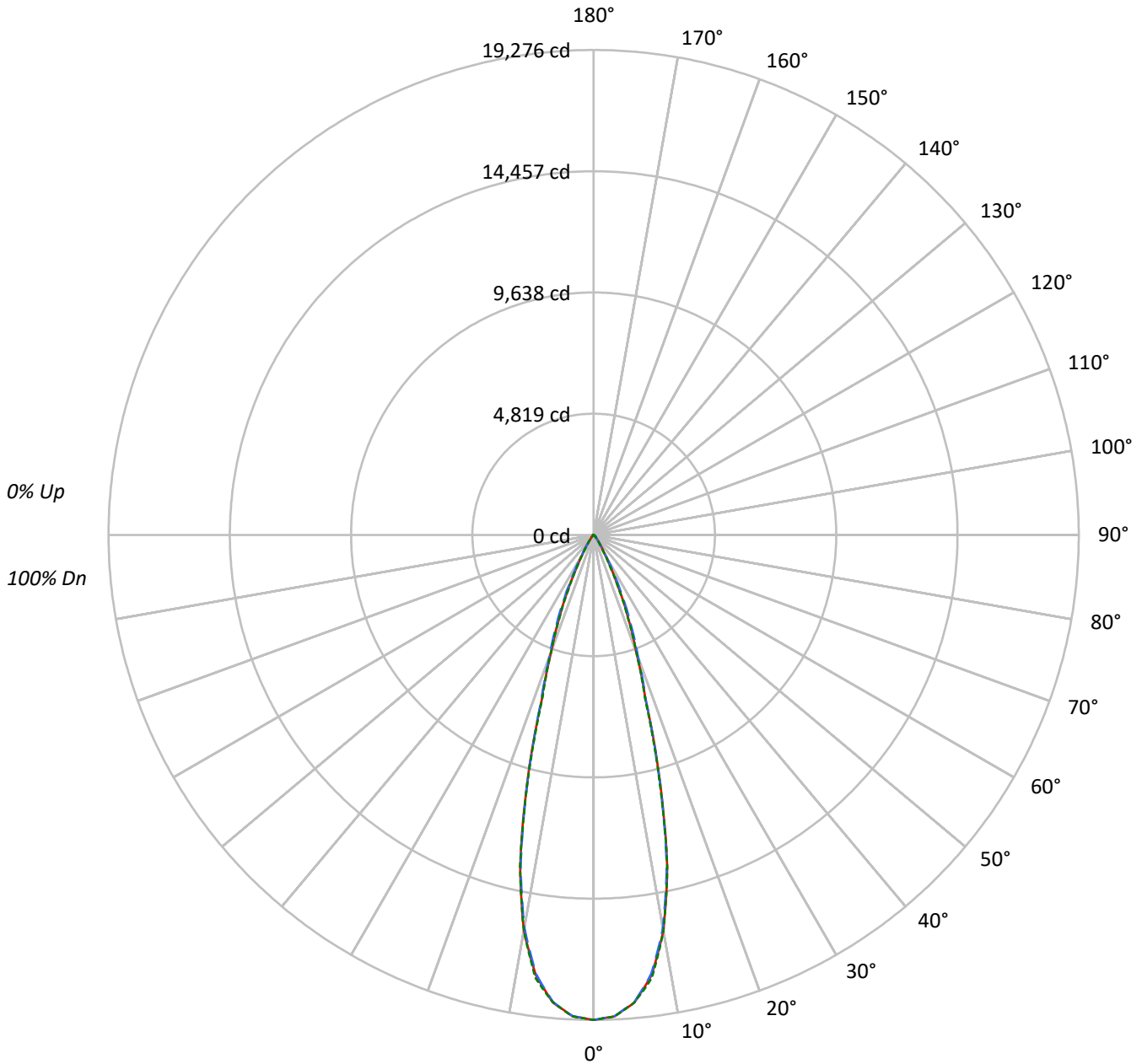


Downlight

TEST NUMBER: P793294

CATALOG NUMBER: LER6D50D010-EC6DR3040509050-6LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P793294

CATALOG NUMBER: LER6D50D010-EC6DR3040509050-6LBS1MW

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° | 1475450 | 1475450 | 1475450 |
| 5° | 1433087 | 1431420 | 1433164 |
| 10° | 1241271 | 1232519 | 1240983 |
| 15° | 809869 | 805519 | 801469 |
| 20° | 402709 | 417819 | 402172 |
| 25° | 202856 | 228758 | 198700 |
| 30° | 81217 | 88500 | 70761 |
| 35° | 37676 | 36078 | 30247 |
| 40° | 16267 | 18066 | 15318 |
| 45° | 11474 | 14235 | 11572 |
| 50° | 3942 | 10372 | 4168 |
| 55° | 2269 | 4297 | 2402 |
| 60° | 1592 | 1883 | 1592 |
| 65° | 1032 | 1032 | 1032 |
| 70° | 627 | 425 | 627 |
| 75° | 0 | 266 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14235 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1695.0 | 28.3 |
| 10°-20° | 2729.9 | 45.5 |
| 20°-30° | 1179.6 | 19.7 |
| 30°-40° | 268.9 | 4.5 |
| 40°-50° | 92.3 | 1.5 |
| 50°-60° | 22.6 | 0.4 |
| 60°-70° | 5.9 | 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° | 5604.5 | 93.5 |
| 0°-40° | 5873.4 | 98.0 |
| 0°-60° | 5988.3 | 99.9 |
| 0°-90° | 5994.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5994.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 19276 | 19276 | 19276 | 19276 | 19276 | |
| 5° | 18651 | 18633 | 18630 | 18668 | 18652 | 1696 |
| 15° | 10220 | 10097 | 10165 | 10132 | 10114 | 2737 |
| 25° | 2402 | 2493 | 2709 | 2429 | 2353 | 1150 |
| 35° | 403 | 412 | 386 | 383 | 324 | 273 |
| 45° | 106 | 132 | 132 | 132 | 107 | 75 |
| 55° | 17 | 18 | 32 | 19 | 18 | 17 |
| 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° | 19276.0 | 19276.0 | 19276.0 | 19276.0 | 19276.0 |
| 2.5° | 19148.2 | 19135.0 | 19142.5 | 19152.0 | 19155.8 |
| 5° | 18651.3 | 18633.4 | 18629.6 | 18668.4 | 18652.3 |
| 7.5° | 17649.1 | 17623.6 | 17584.8 | 17672.8 | 17755.1 |
| 10° | 15970.2 | 15941.9 | 15857.6 | 15899.3 | 15966.5 |
| 12.5° | 13491.7 | 13399.9 | 13398.0 | 13530.5 | 13512.5 |
| 15° | 10220.0 | 10097.0 | 10165.1 | 10132.0 | 10114.0 |
| 17.5° | 6872.6 | 6825.3 | 6916.2 | 6888.7 | 6770.4 |
| 20° | 4943.9 | 4956.2 | 5129.4 | 5042.3 | 4937.3 |
| 22.5° | 3607.6 | 3652.1 | 3857.5 | 3633.2 | 3550.8 |
| 25° | 2401.9 | 2492.8 | 2708.6 | 2429.4 | 2352.7 |
| 27.5° | 1477.3 | 1518.9 | 1737.6 | 1458.4 | 1416.7 |
| 30° | 918.9 | 898.1 | 1001.3 | 859.3 | 800.6 |
| 32.5° | 602.8 | 576.3 | 609.5 | 547.0 | 499.7 |
| 35° | 403.2 | 411.7 | 386.1 | 383.3 | 323.7 |
| 37.5° | 251.7 | 289.6 | 255.5 | 272.6 | 208.2 |
| 40° | 162.8 | 210.1 | 180.8 | 199.7 | 153.3 |
| 42.5° | 133.4 | 161.8 | 148.6 | 158.0 | 136.3 |
| 45° | 106.0 | 131.5 | 131.5 | 131.5 | 106.9 |
| 47.5° | 58.7 | 88.0 | 112.6 | 89.9 | 62.5 |
| 50° | 33.1 | 44.5 | 87.1 | 46.4 | 35.0 |
| 52.5° | 22.7 | 25.6 | 59.6 | 26.5 | 23.7 |
| 55° | 17.0 | 18.0 | 32.2 | 18.9 | 18.0 |
| 57.5° | 13.2 | 14.2 | 17.0 | 14.2 | 13.2 |
| 60° | 10.4 | 10.4 | 12.3 | 11.4 | 10.4 |
| 62.5° | 7.6 | 7.6 | 8.5 | 7.6 | 7.6 |
| 65° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 67.5° | 2.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 70° | 2.8 | 1.9 | 1.9 | 1.9 | 2.8 |
| 72.5° | 1.9 | 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 |

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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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