

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: P793261

Luminaire Tested: LER6D50D010-EC6DR3040509027-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793261
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-EC6DR3040509027-6LBS1LI
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6033.5 lumens
Efficiency: N/A
Efficacy: 128.4 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

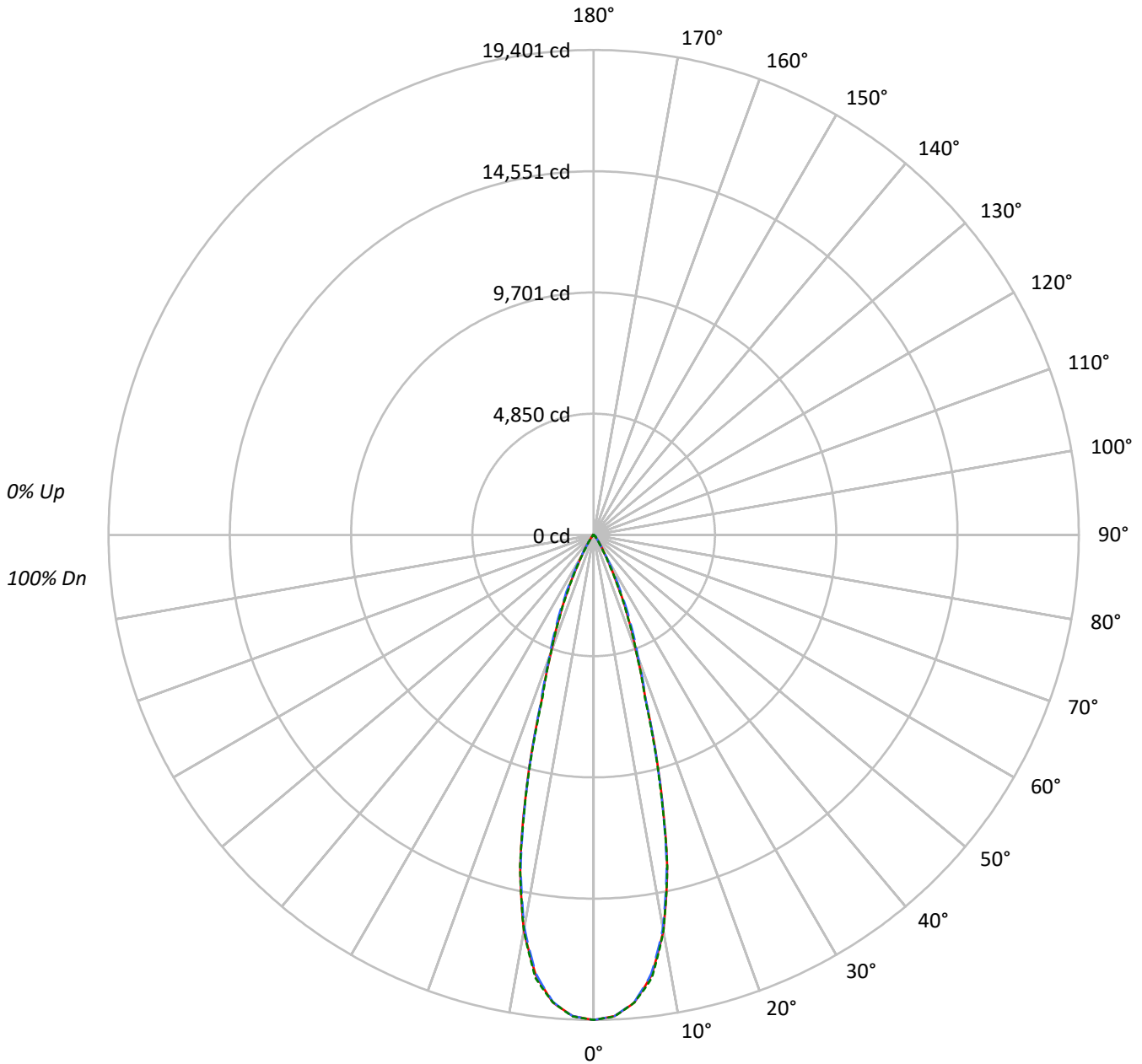
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P793261
CATALOG NUMBER: LER6D50D010-EC6DR3040509027-6LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P793261

CATALOG NUMBER: LER6D50D010-EC6DR3040509027-6LBS1LI

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° | 1484988 | 1484988 | 1484988 |
| 5° | 1442354 | 1440671 | 1442430 |
| 10° | 1249300 | 1240486 | 1249005 |
| 15° | 815107 | 810725 | 806652 |
| 20° | 405316 | 420524 | 404770 |
| 25° | 204173 | 230236 | 199984 |
| 30° | 81747 | 89065 | 71220 |
| 35° | 37919 | 36312 | 30443 |
| 40° | 16367 | 18176 | 15418 |
| 45° | 11550 | 14332 | 11648 |
| 50° | 3965 | 10431 | 4192 |
| 55° | 2282 | 4324 | 2415 |
| 60° | 1607 | 1898 | 1607 |
| 65° | 1032 | 1032 | 1032 |
| 70° | 649 | 425 | 649 |
| 75° | 0 | 296 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14332 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1706.0 | 28.3 |
| 10°-20° | 2747.5 | 45.5 |
| 20°-30° | 1187.3 | 19.7 |
| 30°-40° | 270.6 | 4.5 |
| 40°-50° | 92.9 | 1.5 |
| 50°-60° | 22.7 | 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° | 5640.8 | 93.5 |
| 0°-40° | 5911.4 | 98.0 |
| 0°-60° | 6027.0 | 99.9 |
| 0°-90° | 6033.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6033.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 19401 | 19401 | 19401 | 19401 | 19401 | |
| 5° | 18772 | 18754 | 18750 | 18789 | 18773 | 1707 |
| 15° | 10286 | 10162 | 10231 | 10198 | 10179 | 2754 |
| 25° | 2418 | 2509 | 2726 | 2445 | 2368 | 1157 |
| 35° | 406 | 414 | 389 | 386 | 326 | 275 |
| 45° | 107 | 132 | 132 | 132 | 108 | 76 |
| 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° | 19400.6 | 19400.6 | 19400.6 | 19400.6 | 19400.6 |
| 2.5° | 19272.0 | 19258.6 | 19266.3 | 19275.8 | 19279.6 |
| 5° | 18771.9 | 18753.8 | 18750.0 | 18789.1 | 18772.9 |
| 7.5° | 17763.2 | 17737.5 | 17698.4 | 17787.0 | 17869.9 |
| 10° | 16073.5 | 16044.9 | 15960.1 | 16002.0 | 16069.7 |
| 12.5° | 13578.9 | 13486.5 | 13484.6 | 13617.9 | 13599.8 |
| 15° | 10286.1 | 10162.2 | 10230.8 | 10197.5 | 10179.4 |
| 17.5° | 6917.1 | 6869.4 | 6960.9 | 6933.3 | 6814.2 |
| 20° | 4975.9 | 4988.3 | 5162.6 | 5074.9 | 4969.2 |
| 22.5° | 3630.9 | 3675.7 | 3882.4 | 3656.7 | 3573.8 |
| 25° | 2417.5 | 2508.9 | 2726.1 | 2445.1 | 2367.9 |
| 27.5° | 1486.9 | 1528.8 | 1748.8 | 1467.8 | 1425.9 |
| 30° | 924.9 | 903.9 | 1007.7 | 864.9 | 805.8 |
| 32.5° | 606.7 | 580.1 | 613.4 | 550.5 | 502.9 |
| 35° | 405.8 | 414.3 | 388.6 | 385.8 | 325.8 |
| 37.5° | 253.4 | 291.5 | 257.2 | 274.3 | 209.6 |
| 40° | 163.8 | 211.5 | 181.9 | 201.0 | 154.3 |
| 42.5° | 134.3 | 162.9 | 149.5 | 159.1 | 137.2 |
| 45° | 106.7 | 132.4 | 132.4 | 132.4 | 107.6 |
| 47.5° | 59.1 | 88.6 | 113.3 | 90.5 | 62.9 |
| 50° | 33.3 | 44.8 | 87.6 | 46.7 | 35.2 |
| 52.5° | 22.9 | 25.7 | 60.0 | 26.7 | 23.8 |
| 55° | 17.1 | 18.1 | 32.4 | 19.1 | 18.1 |
| 57.5° | 13.3 | 14.3 | 17.1 | 14.3 | 13.3 |
| 60° | 10.5 | 10.5 | 12.4 | 11.4 | 10.5 |
| 62.5° | 7.6 | 7.6 | 8.6 | 7.6 | 7.6 |
| 65° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 67.5° | 2.9 | 3.8 | 3.8 | 3.8 | 3.8 |
| 70° | 2.9 | 1.9 | 1.9 | 1.9 | 2.9 |
| 72.5° | 1.9 | 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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