

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: P793268

Luminaire Tested: LER6D50D010-EC6DR3040509030-6LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793268
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-EC6DR3040509030-6LBS1H
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5919.8 lumens
Efficiency: N/A
Efficacy: 126.0 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

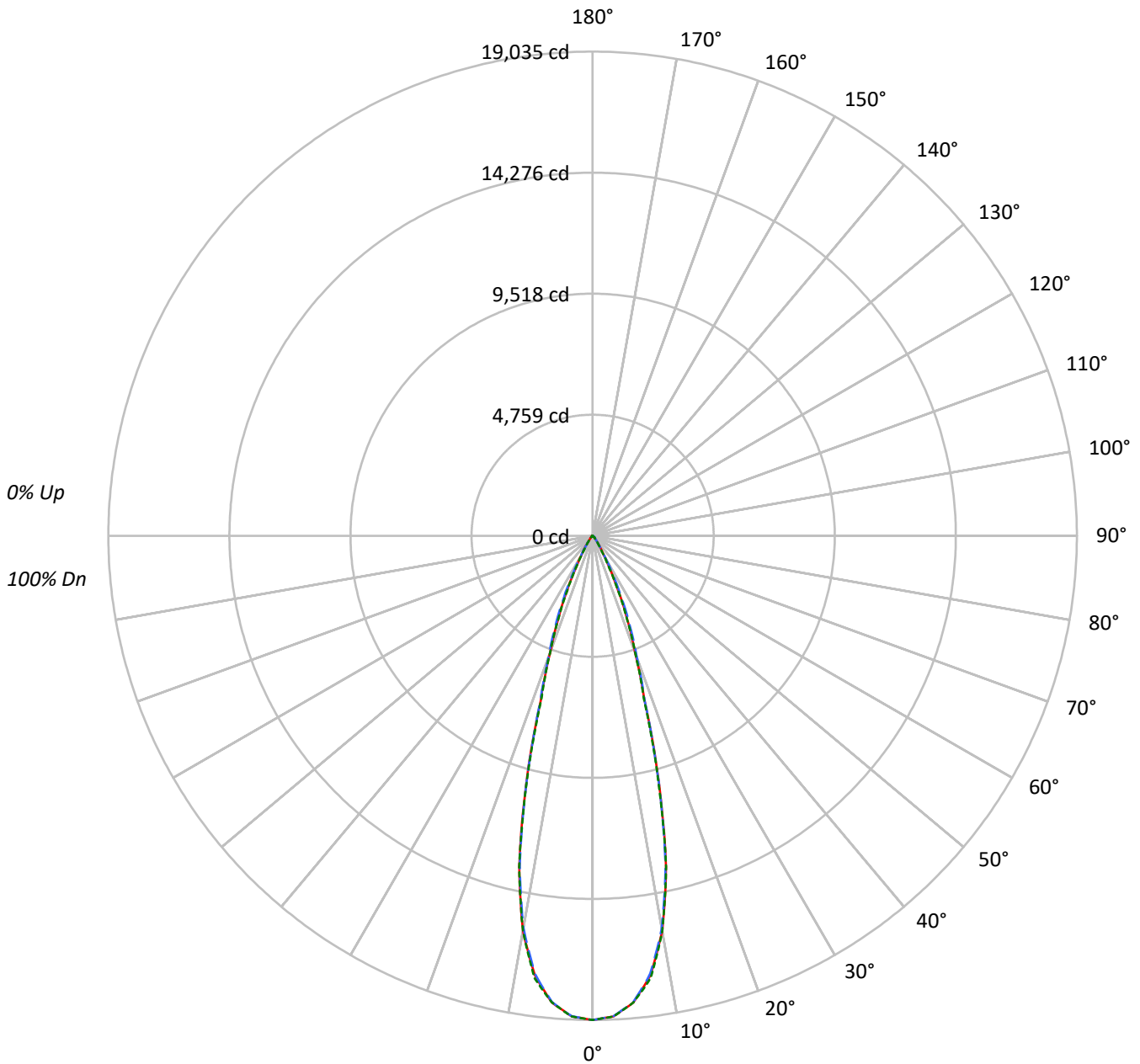


Downlight

TEST NUMBER: P793268

CATALOG NUMBER: LER6D50D010-EC6DR3040509030-6LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P793268

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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° | 1457011 | 1457011 | 1457011 |
| 5° | 1415184 | 1413532 | 1415254 |
| 10° | 1225765 | 1217122 | 1225470 |
| 15° | 799750 | 795455 | 791453 |
| 20° | 397675 | 412598 | 397146 |
| 25° | 200322 | 225895 | 196217 |
| 30° | 80209 | 87395 | 69877 |
| 35° | 37199 | 35630 | 29864 |
| 40° | 16057 | 17836 | 15128 |
| 45° | 11334 | 14062 | 11431 |
| 50° | 3894 | 10241 | 4120 |
| 55° | 2242 | 4244 | 2375 |
| 60° | 1577 | 1852 | 1577 |
| 65° | 1014 | 1014 | 1014 |
| 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: 14062 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1673.8 | 28.3 |
| 10°-20° | 2695.7 | 45.5 |
| 20°-30° | 1164.9 | 19.7 |
| 30°-40° | 265.5 | 4.5 |
| 40°-50° | 91.2 | 1.5 |
| 50°-60° | 22.3 | 0.4 |
| 60°-70° | 5.8 | 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° | 5534.5 | 93.5 |
| 0°-40° | 5800.0 | 98.0 |
| 0°-60° | 5913.4 | 99.9 |
| 0°-90° | 5919.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5919.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 19035 | 19035 | 19035 | 19035 | 19035 | |
| 5° | 18418 | 18400 | 18397 | 18435 | 18419 | 1675 |
| 15° | 10092 | 9971 | 10038 | 10005 | 9988 | 2702 |
| 25° | 2372 | 2462 | 2675 | 2399 | 2323 | 1135 |
| 35° | 398 | 406 | 381 | 378 | 320 | 270 |
| 45° | 105 | 130 | 130 | 130 | 106 | 74 |
| 55° | 17 | 18 | 32 | 19 | 18 | 16 |
| 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° | 19035.1 | 19035.1 | 19035.1 | 19035.1 | 19035.1 |
| 2.5° | 18908.9 | 18895.8 | 18903.3 | 18912.7 | 18916.4 |
| 5° | 18418.3 | 18400.5 | 18396.8 | 18435.1 | 18419.2 |
| 7.5° | 17428.6 | 17403.3 | 17365.0 | 17451.9 | 17533.3 |
| 10° | 15770.7 | 15742.6 | 15659.5 | 15700.6 | 15766.9 |
| 12.5° | 13323.1 | 13232.4 | 13230.5 | 13361.4 | 13343.6 |
| 15° | 10092.3 | 9970.8 | 10038.1 | 10005.4 | 9987.6 |
| 17.5° | 6786.8 | 6740.0 | 6829.8 | 6802.7 | 6685.8 |
| 20° | 4882.1 | 4894.3 | 5065.3 | 4979.3 | 4875.6 |
| 22.5° | 3562.5 | 3606.5 | 3809.3 | 3587.8 | 3506.5 |
| 25° | 2371.9 | 2461.6 | 2674.7 | 2399.0 | 2323.3 |
| 27.5° | 1458.8 | 1500.0 | 1715.8 | 1440.2 | 1399.0 |
| 30° | 907.5 | 886.9 | 988.8 | 848.6 | 790.6 |
| 32.5° | 595.3 | 569.1 | 601.9 | 540.2 | 493.4 |
| 35° | 398.1 | 406.5 | 381.3 | 378.5 | 319.6 |
| 37.5° | 248.6 | 286.0 | 252.3 | 269.2 | 205.6 |
| 40° | 160.7 | 207.5 | 178.5 | 197.2 | 151.4 |
| 42.5° | 131.8 | 159.8 | 146.7 | 156.1 | 134.6 |
| 45° | 104.7 | 129.9 | 129.9 | 129.9 | 105.6 |
| 47.5° | 57.9 | 86.9 | 111.2 | 88.8 | 61.7 |
| 50° | 32.7 | 43.9 | 86.0 | 45.8 | 34.6 |
| 52.5° | 22.4 | 25.2 | 58.9 | 26.2 | 23.4 |
| 55° | 16.8 | 17.8 | 31.8 | 18.7 | 17.8 |
| 57.5° | 13.1 | 14.0 | 16.8 | 14.0 | 13.1 |
| 60° | 10.3 | 10.3 | 12.1 | 11.2 | 10.3 |
| 62.5° | 7.5 | 7.5 | 8.4 | 7.5 | 7.5 |
| 65° | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| 67.5° | 2.8 | 3.7 | 3.7 | 3.7 | 3.7 |
| 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 |

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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