

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: P788329

Luminaire Tested: LER6D08D010-EC6DR300210IC9027-6LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P788329
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: LER6D08D010-EC6DR300210IC9027-6LBDP1LI
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 1347.4 lumens
Efficiency: N/A
Efficacy: 151.4 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

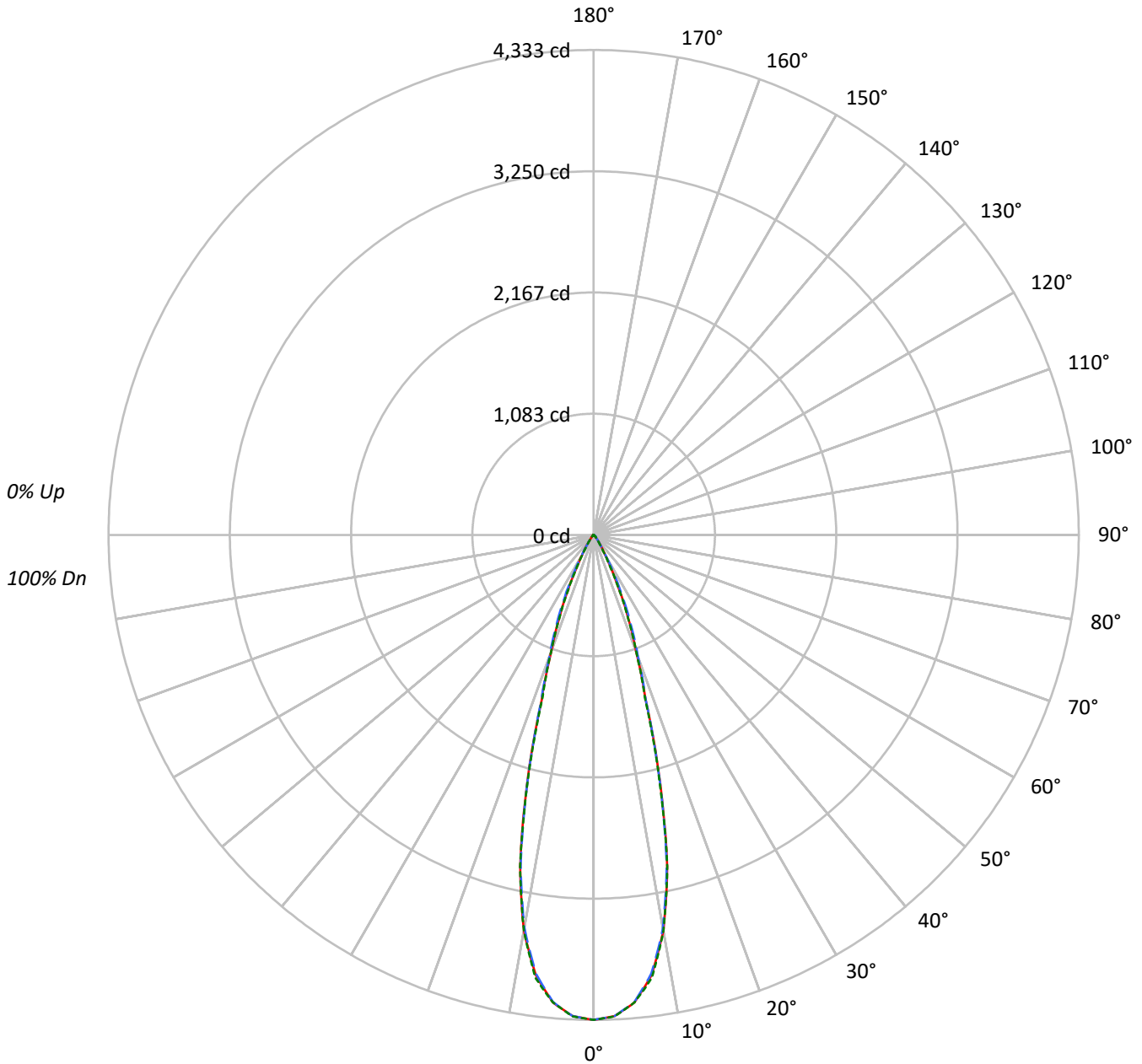
Input Watts (W): 8.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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° | 331640 | 331640 | 331640 |
| 5° | 322119 | 321742 | 322134 |
| 10° | 278999 | 277032 | 278937 |
| 15° | 182030 | 181056 | 180144 |
| 20° | 90514 | 93910 | 90400 |
| 25° | 45598 | 51417 | 44660 |
| 30° | 18251 | 19895 | 15909 |
| 35° | 8466 | 8111 | 6793 |
| 40° | 3657 | 4057 | 3447 |
| 45° | 2576 | 3204 | 2598 |
| 50° | 881 | 2334 | 941 |
| 55° | 507 | 961 | 534 |
| 60° | 352 | 429 | 352 |
| 65° | 235 | 235 | 235 |
| 70° | 134 | 90 | 134 |
| 75° | 0 | 59 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3204 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 381.0 | 28.3 |
| 10°-20° | 613.6 | 45.5 |
| 20°-30° | 265.1 | 19.7 |
| 30°-40° | 60.4 | 4.5 |
| 40°-50° | 20.8 | 1.5 |
| 50°-60° | 5.1 | 0.4 |
| 60°-70° | 1.3 | 0.1 |
| 70°-80° | 0.1 | 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° | 1259.7 | 93.5 |
| 0°-40° | 1320.2 | 98.0 |
| 0°-60° | 1346.0 | 99.9 |
| 0°-90° | 1347.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1347.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4333 | 4333 | 4333 | 4333 | 4333 | |
| 5° | 4192 | 4188 | 4187 | 4196 | 4192 | 381 |
| 15° | 2297 | 2270 | 2285 | 2277 | 2273 | 615 |
| 25° | 540 | 560 | 609 | 546 | 529 | 258 |
| 35° | 91 | 92 | 87 | 86 | 73 | 61 |
| 45° | 24 | 30 | 30 | 30 | 24 | 17 |
| 55° | 4 | 4 | 7 | 4 | 4 | 4 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 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° | 4332.7 | 4332.7 | 4332.7 | 4332.7 | 4332.7 |
| 2.5° | 4303.9 | 4301.0 | 4302.7 | 4304.8 | 4305.6 |
| 5° | 4192.3 | 4188.2 | 4187.4 | 4196.1 | 4192.5 |
| 7.5° | 3967.0 | 3961.2 | 3952.5 | 3972.3 | 3990.8 |
| 10° | 3589.6 | 3583.2 | 3564.3 | 3573.7 | 3588.8 |
| 12.5° | 3032.5 | 3011.9 | 3011.5 | 3041.2 | 3037.2 |
| 15° | 2297.1 | 2269.5 | 2284.8 | 2277.4 | 2273.3 |
| 17.5° | 1544.8 | 1534.1 | 1554.5 | 1548.4 | 1521.8 |
| 20° | 1111.2 | 1114.0 | 1152.9 | 1133.4 | 1109.8 |
| 22.5° | 810.9 | 820.9 | 867.0 | 816.6 | 798.1 |
| 25° | 539.9 | 560.3 | 608.8 | 546.0 | 528.8 |
| 27.5° | 332.1 | 341.4 | 390.6 | 327.8 | 318.4 |
| 30° | 206.5 | 201.9 | 225.1 | 193.1 | 180.0 |
| 32.5° | 135.5 | 129.5 | 137.0 | 123.0 | 112.3 |
| 35° | 90.6 | 92.5 | 86.8 | 86.2 | 72.7 |
| 37.5° | 56.6 | 65.1 | 57.4 | 61.3 | 46.8 |
| 40° | 36.6 | 47.2 | 40.6 | 44.9 | 34.5 |
| 42.5° | 30.0 | 36.4 | 33.4 | 35.5 | 30.6 |
| 45° | 23.8 | 29.6 | 29.6 | 29.6 | 24.0 |
| 47.5° | 13.2 | 19.8 | 25.3 | 20.2 | 14.0 |
| 50° | 7.4 | 10.0 | 19.6 | 10.4 | 7.9 |
| 52.5° | 5.1 | 5.7 | 13.4 | 6.0 | 5.3 |
| 55° | 3.8 | 4.0 | 7.2 | 4.3 | 4.0 |
| 57.5° | 3.0 | 3.2 | 3.8 | 3.2 | 3.0 |
| 60° | 2.3 | 2.3 | 2.8 | 2.6 | 2.3 |
| 62.5° | 1.7 | 1.7 | 1.9 | 1.7 | 1.7 |
| 65° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 67.5° | 0.6 | 0.9 | 0.9 | 0.9 | 0.9 |
| 70° | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 |
| 72.5° | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 |
| 75° | 0.0 | 0.0 | 0.2 | 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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