

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: P788319

Luminaire Tested: LER6D08D010-EC6DR300210IC9024-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P788319
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-EC6DR300210IC9024-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 930.7 lumens
Efficiency: N/A
Efficacy: 104.6 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

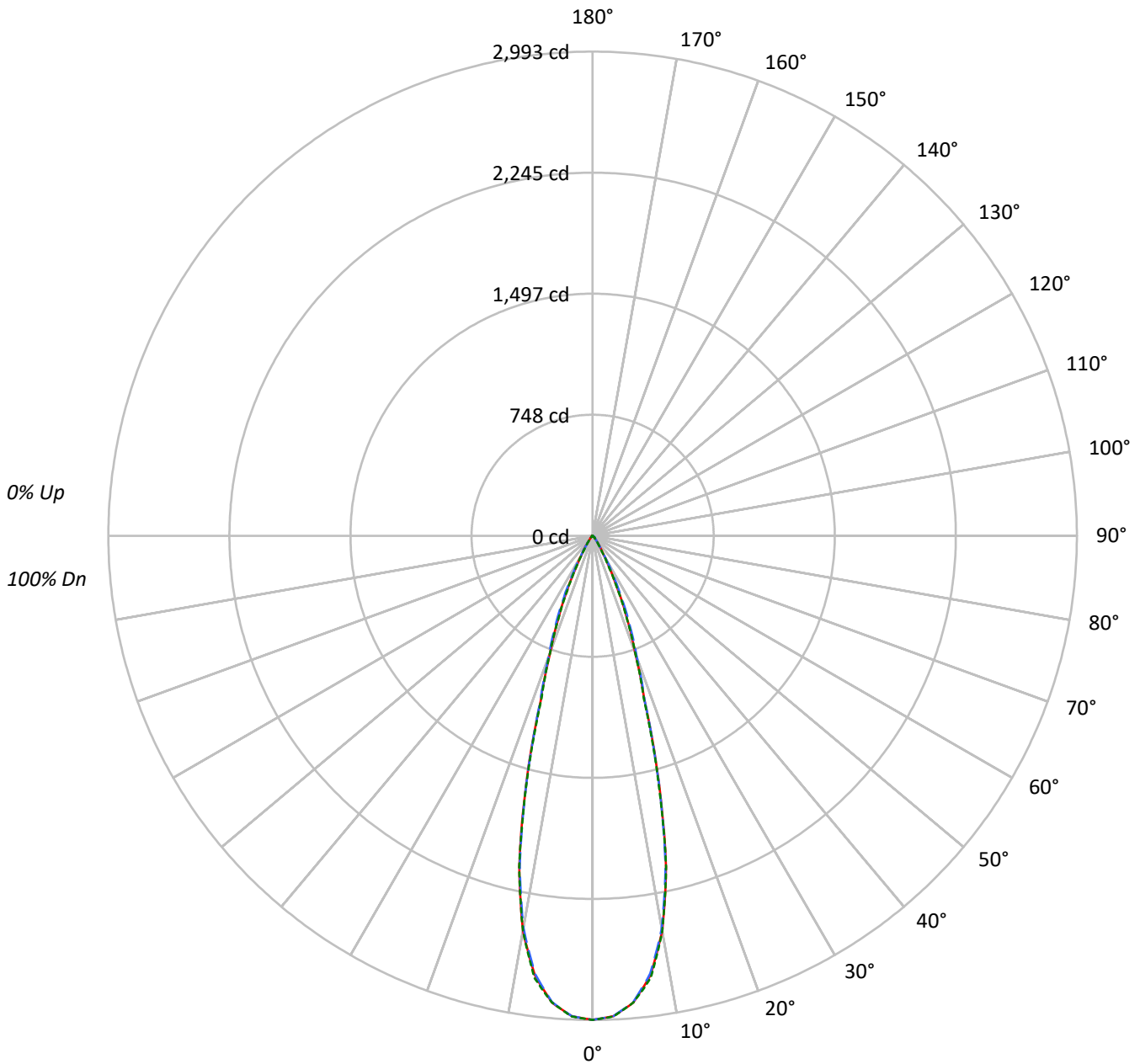


Downlight

TEST NUMBER: P788319

CATALOG NUMBER: LER6D08D010-EC6DR300210IC9024-6LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P788319

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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° | 229071 | 229071 | 229071 |
| 5° | 222493 | 222232 | 222501 |
| 10° | 192709 | 191349 | 192663 |
| 15° | 125736 | 125062 | 124428 |
| 20° | 62525 | 64871 | 62436 |
| 25° | 31494 | 35514 | 30852 |
| 30° | 12612 | 13744 | 10986 |
| 35° | 5849 | 5597 | 4691 |
| 40° | 2528 | 2808 | 2378 |
| 45° | 1786 | 2208 | 1797 |
| 50° | 607 | 1608 | 643 |
| 55° | 347 | 667 | 374 |
| 60° | 245 | 291 | 245 |
| 65° | 163 | 163 | 163 |
| 70° | 90 | 67 | 90 |
| 75° | 0 | 30 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2208 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 263.2 | 28.3 |
| 10°-20° | 423.8 | 45.5 |
| 20°-30° | 183.1 | 19.7 |
| 30°-40° | 41.7 | 4.5 |
| 40°-50° | 14.3 | 1.5 |
| 50°-60° | 3.5 | 0.4 |
| 60°-70° | 0.9 | 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° | 870.1 | 93.5 |
| 0°-40° | 911.9 | 98.0 |
| 0°-60° | 929.7 | 99.9 |
| 0°-90° | 930.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 930.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2993 | 2993 | 2993 | 2993 | 2993 | |
| 5° | 2896 | 2893 | 2892 | 2898 | 2896 | 263 |
| 15° | 1587 | 1568 | 1578 | 1573 | 1570 | 425 |
| 25° | 373 | 387 | 420 | 377 | 365 | 179 |
| 35° | 63 | 64 | 60 | 60 | 50 | 42 |
| 45° | 16 | 20 | 20 | 20 | 17 | 12 |
| 55° | 3 | 3 | 5 | 3 | 3 | 3 |
| 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 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2992.7 | 2992.7 | 2992.7 | 2992.7 | 2992.7 |
| 2.5° | 2972.8 | 2970.8 | 2971.9 | 2973.4 | 2974.0 |
| 5° | 2895.7 | 2892.9 | 2892.3 | 2898.3 | 2895.8 |
| 7.5° | 2740.1 | 2736.1 | 2730.1 | 2743.8 | 2756.5 |
| 10° | 2479.4 | 2475.0 | 2461.9 | 2468.4 | 2478.8 |
| 12.5° | 2094.6 | 2080.4 | 2080.1 | 2100.6 | 2097.9 |
| 15° | 1586.7 | 1567.6 | 1578.2 | 1573.0 | 1570.2 |
| 17.5° | 1067.0 | 1059.7 | 1073.8 | 1069.5 | 1051.1 |
| 20° | 767.6 | 769.5 | 796.4 | 782.8 | 766.5 |
| 22.5° | 560.1 | 567.0 | 598.9 | 564.1 | 551.3 |
| 25° | 372.9 | 387.0 | 420.5 | 377.2 | 365.3 |
| 27.5° | 229.4 | 235.8 | 269.8 | 226.4 | 220.0 |
| 30° | 142.7 | 139.4 | 155.5 | 133.4 | 124.3 |
| 32.5° | 93.6 | 89.5 | 94.6 | 84.9 | 77.6 |
| 35° | 62.6 | 63.9 | 59.9 | 59.5 | 50.2 |
| 37.5° | 39.1 | 45.0 | 39.7 | 42.3 | 32.3 |
| 40° | 25.3 | 32.6 | 28.1 | 31.0 | 23.8 |
| 42.5° | 20.7 | 25.1 | 23.1 | 24.5 | 21.2 |
| 45° | 16.5 | 20.4 | 20.4 | 20.4 | 16.6 |
| 47.5° | 9.1 | 13.7 | 17.5 | 14.0 | 9.7 |
| 50° | 5.1 | 6.9 | 13.5 | 7.2 | 5.4 |
| 52.5° | 3.5 | 4.0 | 9.3 | 4.1 | 3.7 |
| 55° | 2.6 | 2.8 | 5.0 | 2.9 | 2.8 |
| 57.5° | 2.1 | 2.2 | 2.6 | 2.2 | 2.1 |
| 60° | 1.6 | 1.6 | 1.9 | 1.8 | 1.6 |
| 62.5° | 1.2 | 1.2 | 1.3 | 1.2 | 1.2 |
| 65° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 67.5° | 0.4 | 0.6 | 0.6 | 0.6 | 0.6 |
| 70° | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 |
| 72.5° | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 |
| 75° | 0.0 | 0.0 | 0.1 | 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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