

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: P792332

Luminaire Tested: LER6D40BD010-EC6DR3040509050-6LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792332
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: LER6D40BD010-EC6DR3040509050-6LBS1H
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4902.4 lumens
Efficiency: N/A
Efficacy: 139.3 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): 35.2
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

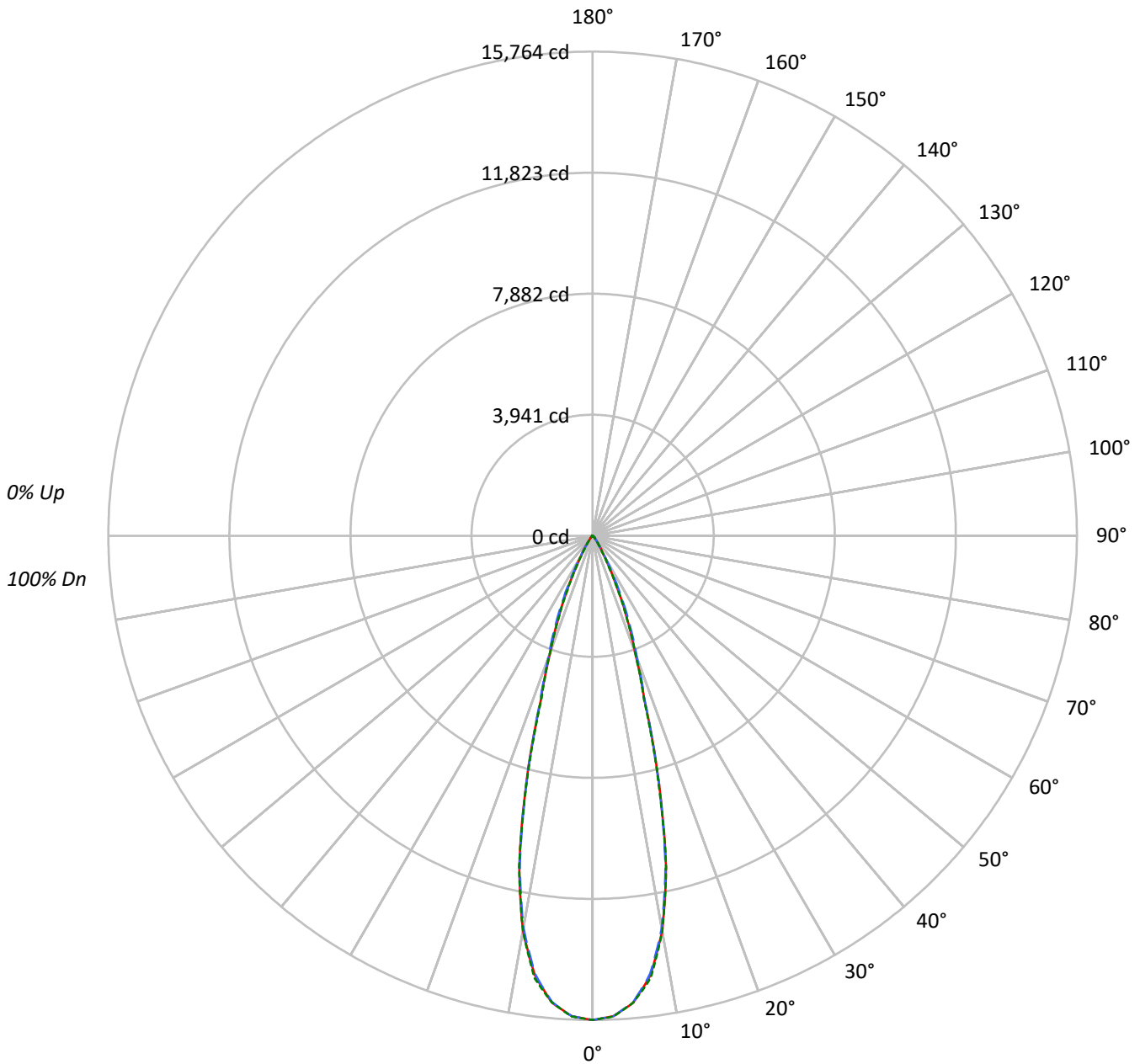


Downlight

TEST NUMBER: P792332

CATALOG NUMBER: LER6D40BD010-EC6DR3040509050-6LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P792332

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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° | 1206592 | 1206592 | 1206592 |
| 5° | 1171953 | 1170585 | 1172015 |
| 10° | 1015094 | 1007935 | 1014853 |
| 15° | 662294 | 658736 | 655423 |
| 20° | 329326 | 341683 | 328886 |
| 25° | 165889 | 187071 | 162494 |
| 30° | 66421 | 72369 | 57865 |
| 35° | 30808 | 29509 | 24734 |
| 40° | 13299 | 14768 | 12530 |
| 45° | 9385 | 11648 | 9472 |
| 50° | 3227 | 8479 | 3406 |
| 55° | 1855 | 3510 | 1962 |
| 60° | 1301 | 1546 | 1301 |
| 65° | 833 | 833 | 833 |
| 70° | 515 | 336 | 515 |
| 75° | 0 | 237 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11648 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1386.2 | 28.3 |
| 10°-20° | 2232.4 | 45.5 |
| 20°-30° | 964.7 | 19.7 |
| 30°-40° | 219.9 | 4.5 |
| 40°-50° | 75.5 | 1.5 |
| 50°-60° | 18.4 | 0.4 |
| 60°-70° | 4.8 | 0.1 |
| 70°-80° | 0.5 | 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° | 4583.3 | 93.5 |
| 0°-40° | 4803.1 | 98.0 |
| 0°-60° | 4897.1 | 99.9 |
| 0°-90° | 4902.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4902.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 15764 | 15764 | 15764 | 15764 | 15764 | |
| 5° | 15253 | 15238 | 15235 | 15267 | 15254 | 1387 |
| 15° | 8358 | 8257 | 8313 | 8286 | 8271 | 2238 |
| 25° | 1964 | 2038 | 2215 | 1987 | 1924 | 940 |
| 35° | 330 | 337 | 316 | 313 | 265 | 224 |
| 45° | 87 | 108 | 108 | 108 | 88 | 62 |
| 55° | 14 | 15 | 26 | 16 | 15 | 14 |
| 65° | 5 | 5 | 5 | 5 | 5 | 5 |
| 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° | 15763.5 | 15763.5 | 15763.5 | 15763.5 | 15763.5 |
| 2.5° | 15659.0 | 15648.2 | 15654.4 | 15662.1 | 15665.2 |
| 5° | 15252.7 | 15238.0 | 15234.9 | 15266.6 | 15253.5 |
| 7.5° | 14433.1 | 14412.2 | 14380.5 | 14452.5 | 14519.8 |
| 10° | 13060.2 | 13036.9 | 12968.1 | 13002.1 | 13057.1 |
| 12.5° | 11033.2 | 10958.2 | 10956.6 | 11065.0 | 11050.2 |
| 15° | 8357.7 | 8257.1 | 8312.8 | 8285.8 | 8271.0 |
| 17.5° | 5620.3 | 5581.6 | 5655.9 | 5633.5 | 5536.7 |
| 20° | 4043.0 | 4053.1 | 4194.7 | 4123.5 | 4037.6 |
| 22.5° | 2950.2 | 2986.6 | 3154.6 | 2971.1 | 2903.8 |
| 25° | 1964.2 | 2038.5 | 2215.0 | 1986.7 | 1924.0 |
| 27.5° | 1208.1 | 1242.2 | 1420.9 | 1192.6 | 1158.6 |
| 30° | 751.5 | 734.5 | 818.8 | 702.7 | 654.7 |
| 32.5° | 493.0 | 471.3 | 498.4 | 447.3 | 408.6 |
| 35° | 329.7 | 336.7 | 315.8 | 313.4 | 264.7 |
| 37.5° | 205.9 | 236.8 | 209.0 | 222.9 | 170.3 |
| 40° | 133.1 | 171.8 | 147.8 | 163.3 | 125.4 |
| 42.5° | 109.1 | 132.3 | 121.5 | 129.2 | 111.4 |
| 45° | 86.7 | 107.6 | 107.6 | 107.6 | 87.5 |
| 47.5° | 48.0 | 72.0 | 92.1 | 73.5 | 51.1 |
| 50° | 27.1 | 36.4 | 71.2 | 37.9 | 28.6 |
| 52.5° | 18.6 | 20.9 | 48.8 | 21.7 | 19.3 |
| 55° | 13.9 | 14.7 | 26.3 | 15.5 | 14.7 |
| 57.5° | 10.8 | 11.6 | 13.9 | 11.6 | 10.8 |
| 60° | 8.5 | 8.5 | 10.1 | 9.3 | 8.5 |
| 62.5° | 6.2 | 6.2 | 7.0 | 6.2 | 6.2 |
| 65° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| 67.5° | 2.3 | 3.1 | 3.1 | 3.1 | 3.1 |
| 70° | 2.3 | 1.5 | 1.5 | 1.5 | 2.3 |
| 72.5° | 1.5 | 0.8 | 0.8 | 0.8 | 0.8 |
| 75° | 0.0 | 0.0 | 0.8 | 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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