

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: P792321

Luminaire Tested: LER6D40BD010-EC6DR3040509040-6LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792321
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-EC6DR3040509040-6LBDP1LI
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4855.4 lumens
Efficiency: N/A
Efficacy: 137.9 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

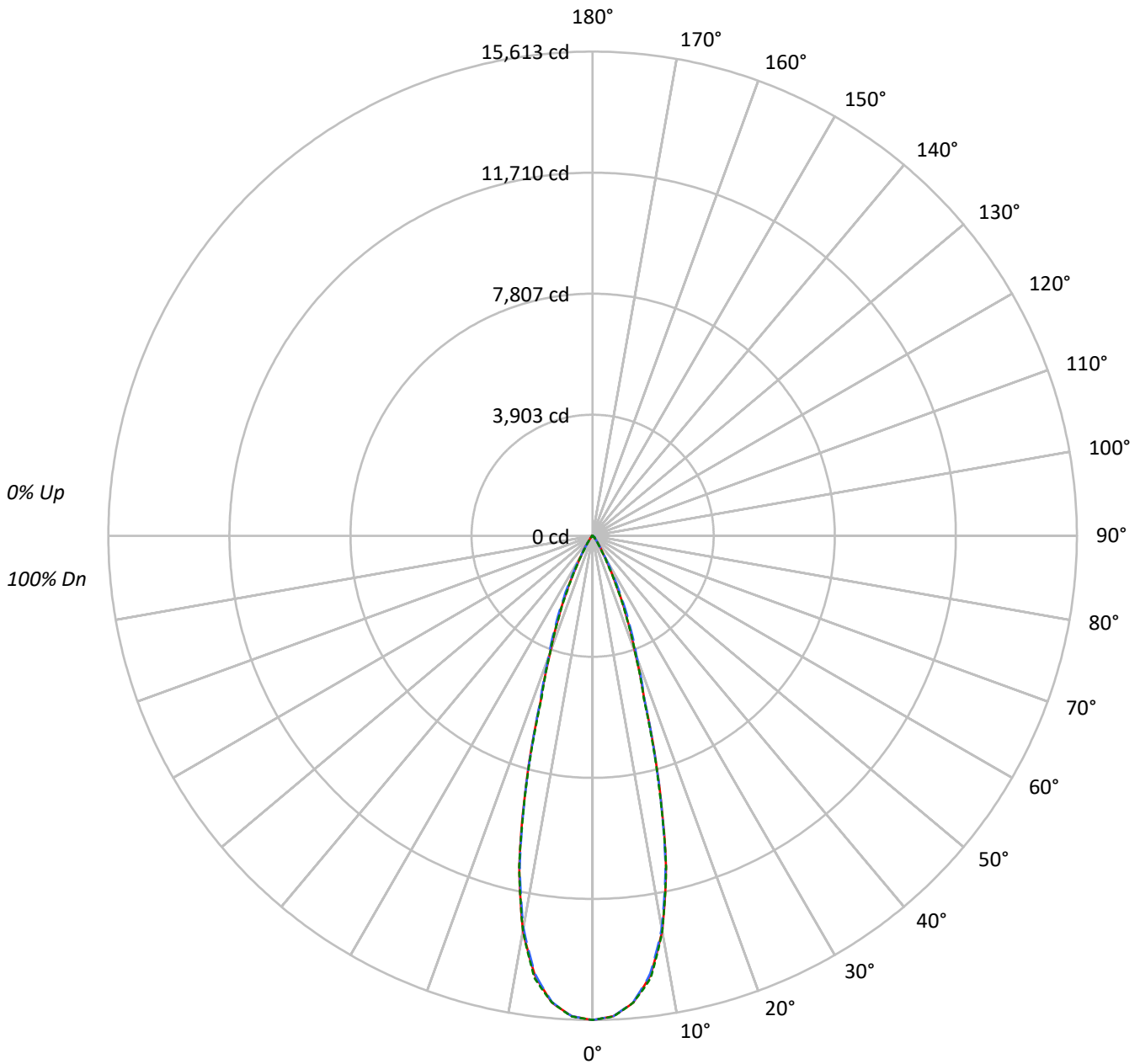


Downlight

TEST NUMBER: P792321

CATALOG NUMBER: LER6D40BD010-EC6DR3040509040-6LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P792321

CATALOG NUMBER: LER6D40BD010-EC6DR3040509040-6LBDP1LI

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 | | | | | | | | | | | | | | | | | | | |
| 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° | 1195041 | 1195041 | 1195041 |
| 5° | 1160735 | 1159383 | 1160789 |
| 10° | 1005370 | 998282 | 1005129 |
| 15° | 655954 | 652428 | 649155 |
| 20° | 326173 | 338416 | 325742 |
| 25° | 164301 | 185280 | 160940 |
| 30° | 65785 | 71680 | 57317 |
| 35° | 30509 | 29219 | 24501 |
| 40° | 13169 | 14628 | 12410 |
| 45° | 9299 | 11528 | 9374 |
| 50° | 3191 | 8395 | 3382 |
| 55° | 1842 | 3483 | 1948 |
| 60° | 1286 | 1531 | 1286 |
| 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: 11528 cd/sqm



TEST NUMBER: P792321

CATALOG NUMBER: LER6D40BD010-EC6DR3040509040-6LBDP1LI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1372.9 | 28.3 |
| 10°-20° | 2211.1 | 45.5 |
| 20°-30° | 955.5 | 19.7 |
| 30°-40° | 217.8 | 4.5 |
| 40°-50° | 74.8 | 1.5 |
| 50°-60° | 18.3 | 0.4 |
| 60°-70° | 4.7 | 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° | 4539.4 | 93.5 |
| 0°-40° | 4757.2 | 98.0 |
| 0°-60° | 4850.2 | 99.9 |
| 0°-90° | 4855.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4855.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 15613 | 15613 | 15613 | 15613 | 15613 | |
| 5° | 15107 | 15092 | 15089 | 15120 | 15107 | 1374 |
| 15° | 8278 | 8178 | 8233 | 8206 | 8192 | 2216 |
| 25° | 1945 | 2019 | 2194 | 1968 | 1906 | 931 |
| 35° | 326 | 333 | 313 | 310 | 262 | 221 |
| 45° | 86 | 106 | 106 | 106 | 87 | 61 |
| 55° | 14 | 15 | 26 | 15 | 15 | 13 |
| 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 |



TEST NUMBER: P792321

CATALOG NUMBER: LER6D40BD010-EC6DR3040509040-6LBDP1LI

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 15612.6 | 15612.6 | 15612.6 | 15612.6 | 15612.6 |
| 2.5° | 15509.1 | 15498.4 | 15504.5 | 15512.2 | 15515.2 |
| 5° | 15106.7 | 15092.1 | 15089.1 | 15120.5 | 15107.4 |
| 7.5° | 14294.9 | 14274.2 | 14242.8 | 14314.1 | 14380.8 |
| 10° | 12935.1 | 12912.1 | 12843.9 | 12877.6 | 12932.0 |
| 12.5° | 10927.6 | 10853.2 | 10851.7 | 10959.0 | 10944.4 |
| 15° | 8277.7 | 8178.1 | 8233.2 | 8206.4 | 8191.9 |
| 17.5° | 5566.5 | 5528.2 | 5601.8 | 5579.5 | 5483.7 |
| 20° | 4004.3 | 4014.3 | 4154.6 | 4084.0 | 3999.0 |
| 22.5° | 2922.0 | 2958.0 | 3124.4 | 2942.7 | 2876.0 |
| 25° | 1945.4 | 2019.0 | 2193.8 | 1967.7 | 1905.6 |
| 27.5° | 1196.5 | 1230.3 | 1407.3 | 1181.2 | 1147.5 |
| 30° | 744.3 | 727.4 | 811.0 | 696.0 | 648.5 |
| 32.5° | 488.3 | 466.8 | 493.6 | 443.1 | 404.7 |
| 35° | 326.5 | 333.4 | 312.7 | 310.4 | 262.2 |
| 37.5° | 203.9 | 234.6 | 207.0 | 220.8 | 168.6 |
| 40° | 131.8 | 170.2 | 146.4 | 161.7 | 124.2 |
| 42.5° | 108.1 | 131.1 | 120.3 | 128.0 | 110.4 |
| 45° | 85.9 | 106.5 | 106.5 | 106.5 | 86.6 |
| 47.5° | 47.5 | 71.3 | 91.2 | 72.8 | 50.6 |
| 50° | 26.8 | 36.0 | 70.5 | 37.6 | 28.4 |
| 52.5° | 18.4 | 20.7 | 48.3 | 21.5 | 19.2 |
| 55° | 13.8 | 14.6 | 26.1 | 15.3 | 14.6 |
| 57.5° | 10.7 | 11.5 | 13.8 | 11.5 | 10.7 |
| 60° | 8.4 | 8.4 | 10.0 | 9.2 | 8.4 |
| 62.5° | 6.1 | 6.1 | 6.9 | 6.1 | 6.1 |
| 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 |

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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)