

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: P792293

Luminaire Tested: LER6D40BD010-EC6DR3040509024-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792293
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-EC6DR3040509024-6LBS1LI
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4140.3 lumens
Efficiency: N/A
Efficacy: 117.6 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): 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

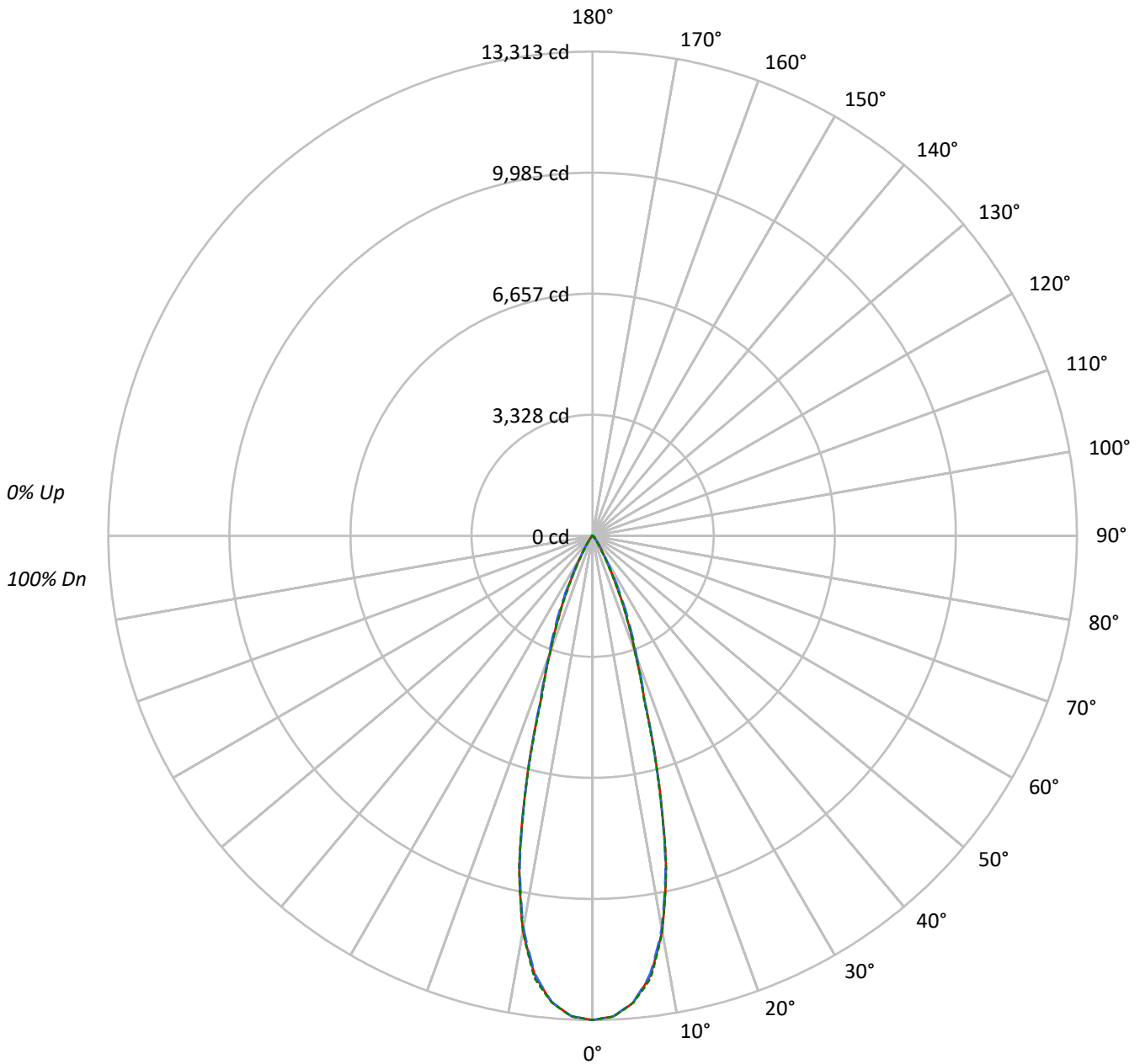


Downlight

TEST NUMBER: P792293

CATALOG NUMBER: LER6D40BD010-EC6DR3040509024-6LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P792293

CATALOG NUMBER: LER6D40BD010-EC6DR3040509024-6LBS1LI

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° | 1019038 | 1019038 | 1019038 |
| 5° | 989783 | 988623 | 989829 |
| 10° | 857298 | 851259 | 857096 |
| 15° | 559349 | 556345 | 553548 |
| 20° | 278139 | 288573 | 277764 |
| 25° | 140105 | 157992 | 137233 |
| 30° | 56098 | 61118 | 48877 |
| 35° | 26014 | 24921 | 20884 |
| 40° | 11231 | 12470 | 10582 |
| 45° | 7924 | 9840 | 8000 |
| 50° | 2727 | 7157 | 2882 |
| 55° | 1575 | 2963 | 1655 |
| 60° | 1102 | 1301 | 1102 |
| 65° | 706 | 706 | 706 |
| 70° | 448 | 291 | 448 |
| 75° | 0 | 207 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9840 cd/sqm



TEST NUMBER: P792293

CATALOG NUMBER: LER6D40BD010-EC6DR3040509024-6LBS1LI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1170.7 | 28.3 |
| 10°-20° | 1885.4 | 45.5 |
| 20°-30° | 814.7 | 19.7 |
| 30°-40° | 185.7 | 4.5 |
| 40°-50° | 63.8 | 1.5 |
| 50°-60° | 15.6 | 0.4 |
| 60°-70° | 4.0 | 0.1 |
| 70°-80° | 0.4 | 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° | 3870.8 | 93.5 |
| 0°-40° | 4056.5 | 98.0 |
| 0°-60° | 4135.9 | 99.9 |
| 0°-90° | 4140.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4140.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 13313 | 13313 | 13313 | 13313 | 13313 | |
| 5° | 12882 | 12869 | 12867 | 12894 | 12882 | 1172 |
| 15° | 7059 | 6974 | 7021 | 6998 | 6985 | 1890 |
| 25° | 1659 | 1722 | 1871 | 1678 | 1625 | 794 |
| 35° | 278 | 284 | 267 | 265 | 224 | 189 |
| 45° | 73 | 91 | 91 | 91 | 74 | 52 |
| 55° | 12 | 12 | 22 | 13 | 12 | 11 |
| 65° | 4 | 4 | 4 | 4 | 4 | 4 |
| 75° | 0 | 0 | 1 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P792293

CATALOG NUMBER: LER6D40BD010-EC6DR3040509024-6LBS1LI

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 13313.2 | 13313.2 | 13313.2 | 13313.2 | 13313.2 |
| 2.5° | 13224.9 | 13215.8 | 13221.0 | 13227.5 | 13230.2 |
| 5° | 12881.8 | 12869.4 | 12866.7 | 12893.5 | 12882.4 |
| 7.5° | 12189.6 | 12171.9 | 12145.1 | 12205.9 | 12262.8 |
| 10° | 11030.0 | 11010.4 | 10952.3 | 10981.0 | 11027.4 |
| 12.5° | 9318.2 | 9254.8 | 9253.5 | 9345.0 | 9332.6 |
| 15° | 7058.6 | 6973.6 | 7020.7 | 6997.8 | 6985.4 |
| 17.5° | 4746.7 | 4714.0 | 4776.7 | 4757.8 | 4676.1 |
| 20° | 3414.6 | 3423.1 | 3542.7 | 3482.5 | 3410.0 |
| 22.5° | 2491.6 | 2522.4 | 2664.2 | 2509.3 | 2452.4 |
| 25° | 1658.9 | 1721.7 | 1870.7 | 1677.9 | 1624.9 |
| 27.5° | 1020.3 | 1049.1 | 1200.1 | 1007.2 | 978.5 |
| 30° | 634.7 | 620.3 | 691.5 | 593.5 | 553.0 |
| 32.5° | 416.4 | 398.1 | 420.9 | 377.8 | 345.1 |
| 35° | 278.4 | 284.3 | 266.7 | 264.7 | 223.5 |
| 37.5° | 173.9 | 200.0 | 176.5 | 188.2 | 143.8 |
| 40° | 112.4 | 145.1 | 124.8 | 137.9 | 105.9 |
| 42.5° | 92.2 | 111.8 | 102.6 | 109.2 | 94.1 |
| 45° | 73.2 | 90.9 | 90.9 | 90.9 | 73.9 |
| 47.5° | 40.5 | 60.8 | 77.8 | 62.1 | 43.1 |
| 50° | 22.9 | 30.7 | 60.1 | 32.0 | 24.2 |
| 52.5° | 15.7 | 17.6 | 41.2 | 18.3 | 16.3 |
| 55° | 11.8 | 12.4 | 22.2 | 13.1 | 12.4 |
| 57.5° | 9.2 | 9.8 | 11.8 | 9.8 | 9.2 |
| 60° | 7.2 | 7.2 | 8.5 | 7.8 | 7.2 |
| 62.5° | 5.2 | 5.2 | 5.9 | 5.2 | 5.2 |
| 65° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 67.5° | 2.0 | 2.6 | 2.6 | 2.6 | 2.6 |
| 70° | 2.0 | 1.3 | 1.3 | 1.3 | 2.0 |
| 72.5° | 1.3 | 0.7 | 0.7 | 0.7 | 0.7 |
| 75° | 0.0 | 0.0 | 0.7 | 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)