

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: P771091

Luminaire Tested: LD6D75BD010-EU6DR3070959035-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771091
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: LD6D75BD010-EU6DR3070959035-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6777.9 lumens
Efficiency: N/A
Efficacy: 93.6 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): 72.4
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

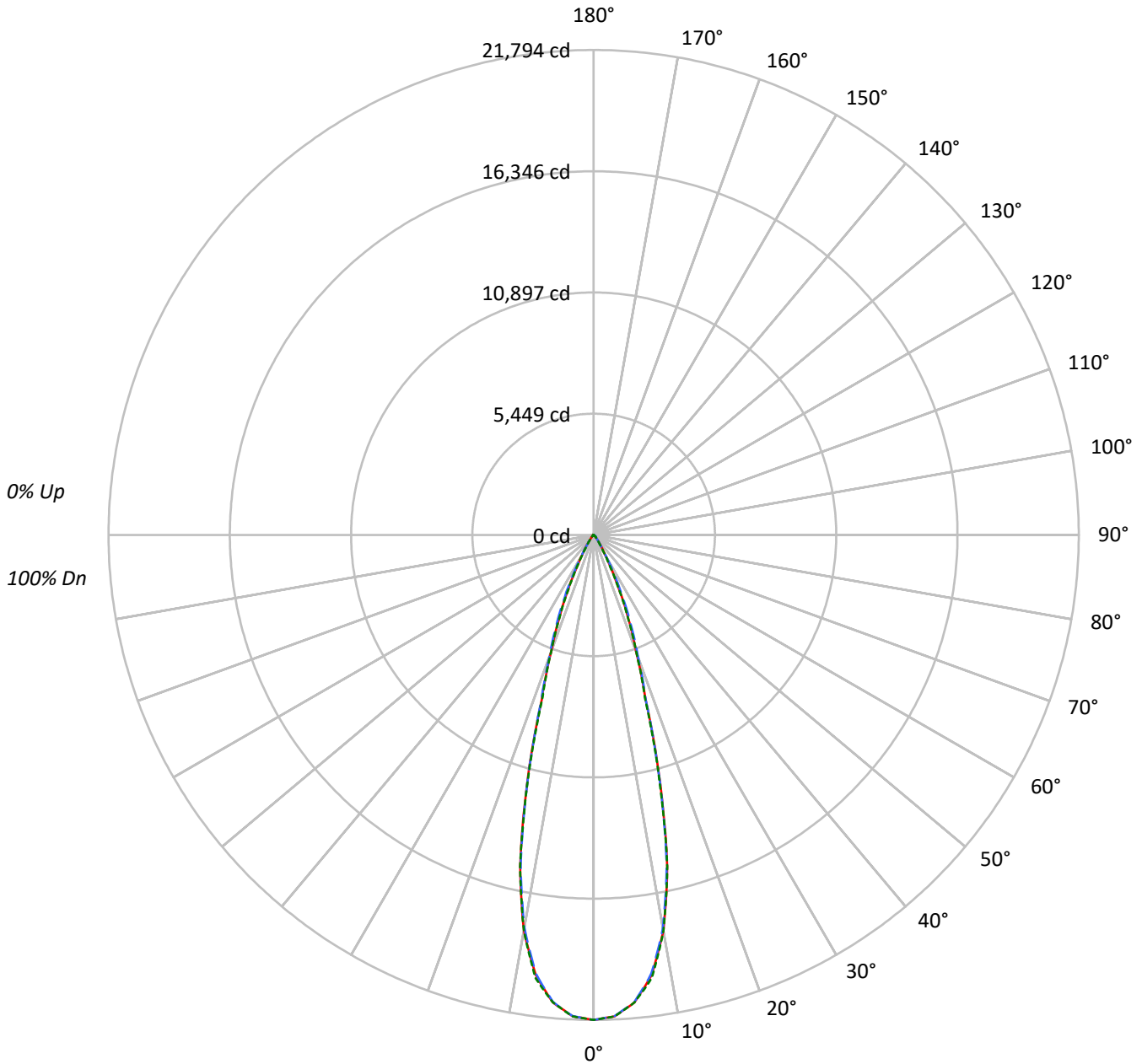


Downlight

TEST NUMBER: P771091

CATALOG NUMBER: LD6D75BD010-EU6DR3070959035-6LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P771091

CATALOG NUMBER: LD6D75BD010-EU6DR3070959035-6LBDP1B

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° | 1668202 | 1668202 | 1668202 |
| 5° | 1620313 | 1618423 | 1620397 |
| 10° | 1403435 | 1393541 | 1403108 |
| 15° | 915675 | 910754 | 906174 |
| 20° | 455322 | 472403 | 454711 |
| 25° | 229358 | 258639 | 224662 |
| 30° | 91832 | 100060 | 80006 |
| 35° | 42591 | 40797 | 34191 |
| 40° | 18385 | 20424 | 17316 |
| 45° | 12968 | 16097 | 13087 |
| 50° | 4466 | 11718 | 4716 |
| 55° | 2576 | 4858 | 2709 |
| 60° | 1806 | 2128 | 1806 |
| 65° | 1159 | 1159 | 1159 |
| 70° | 716 | 470 | 716 |
| 75° | 0 | 325 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16097 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1916.5 | 28.3 |
| 10°-20° | 3086.5 | 45.5 |
| 20°-30° | 1333.8 | 19.7 |
| 30°-40° | 304.0 | 4.5 |
| 40°-50° | 104.4 | 1.5 |
| 50°-60° | 25.5 | 0.4 |
| 60°-70° | 6.6 | 0.1 |
| 70°-80° | 0.7 | 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° | 6336.7 | 93.5 |
| 0°-40° | 6640.7 | 98.0 |
| 0°-60° | 6770.6 | 99.9 |
| 0°-90° | 6777.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6777.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 21794 | 21794 | 21794 | 21794 | 21794 | |
| 5° | 21088 | 21068 | 21063 | 21107 | 21089 | 1918 |
| 15° | 11555 | 11416 | 11493 | 11456 | 11435 | 3094 |
| 25° | 2716 | 2818 | 3062 | 2747 | 2660 | 1300 |
| 35° | 456 | 466 | 437 | 433 | 366 | 309 |
| 45° | 120 | 149 | 149 | 149 | 121 | 85 |
| 55° | 19 | 20 | 36 | 21 | 20 | 19 |
| 65° | 6 | 6 | 6 | 6 | 6 | 6 |
| 75° | 0 | 0 | 1 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P771091

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 21794.2 | 21794.2 | 21794.2 | 21794.2 | 21794.2 |
| 2.5° | 21649.8 | 21634.8 | 21643.4 | 21654.1 | 21658.3 |
| 5° | 21088.0 | 21067.7 | 21063.4 | 21107.3 | 21089.1 |
| 7.5° | 19954.9 | 19926.0 | 19882.1 | 19981.6 | 20074.7 |
| 10° | 18056.6 | 18024.5 | 17929.3 | 17976.4 | 18052.4 |
| 12.5° | 15254.3 | 15150.5 | 15148.3 | 15298.1 | 15277.8 |
| 15° | 11555.2 | 11416.1 | 11493.1 | 11455.7 | 11435.3 |
| 17.5° | 7770.5 | 7717.0 | 7819.7 | 7788.7 | 7654.9 |
| 20° | 5589.8 | 5603.7 | 5799.5 | 5701.1 | 5582.3 |
| 22.5° | 4078.9 | 4129.2 | 4361.4 | 4107.8 | 4014.7 |
| 25° | 2715.7 | 2818.4 | 3062.4 | 2746.7 | 2660.1 |
| 27.5° | 1670.3 | 1717.4 | 1964.6 | 1648.9 | 1601.8 |
| 30° | 1039.0 | 1015.5 | 1132.1 | 971.6 | 905.2 |
| 32.5° | 681.6 | 651.6 | 689.1 | 618.5 | 565.0 |
| 35° | 455.8 | 465.5 | 436.6 | 433.4 | 365.9 |
| 37.5° | 284.6 | 327.4 | 288.9 | 308.2 | 235.4 |
| 40° | 184.0 | 237.5 | 204.4 | 225.8 | 173.3 |
| 42.5° | 150.9 | 183.0 | 168.0 | 178.7 | 154.1 |
| 45° | 119.8 | 148.7 | 148.7 | 148.7 | 120.9 |
| 47.5° | 66.3 | 99.5 | 127.3 | 101.7 | 70.6 |
| 50° | 37.5 | 50.3 | 98.4 | 52.4 | 39.6 |
| 52.5° | 25.7 | 28.9 | 67.4 | 30.0 | 26.8 |
| 55° | 19.3 | 20.3 | 36.4 | 21.4 | 20.3 |
| 57.5° | 15.0 | 16.1 | 19.3 | 16.1 | 15.0 |
| 60° | 11.8 | 11.8 | 13.9 | 12.8 | 11.8 |
| 62.5° | 8.6 | 8.6 | 9.6 | 8.6 | 8.6 |
| 65° | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| 67.5° | 3.2 | 4.3 | 4.3 | 4.3 | 4.3 |
| 70° | 3.2 | 2.1 | 2.1 | 2.1 | 3.2 |
| 72.5° | 2.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 75° | 0.0 | 0.0 | 1.1 | 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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