

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: P771864

Luminaire Tested: LD6D80BD010-EU6DR3070959030-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771864
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: LD6D80BD010-EU6DR3070959030-6LBS1LI
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10432.0 lumens
Efficiency: N/A
Efficacy: 132.2 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

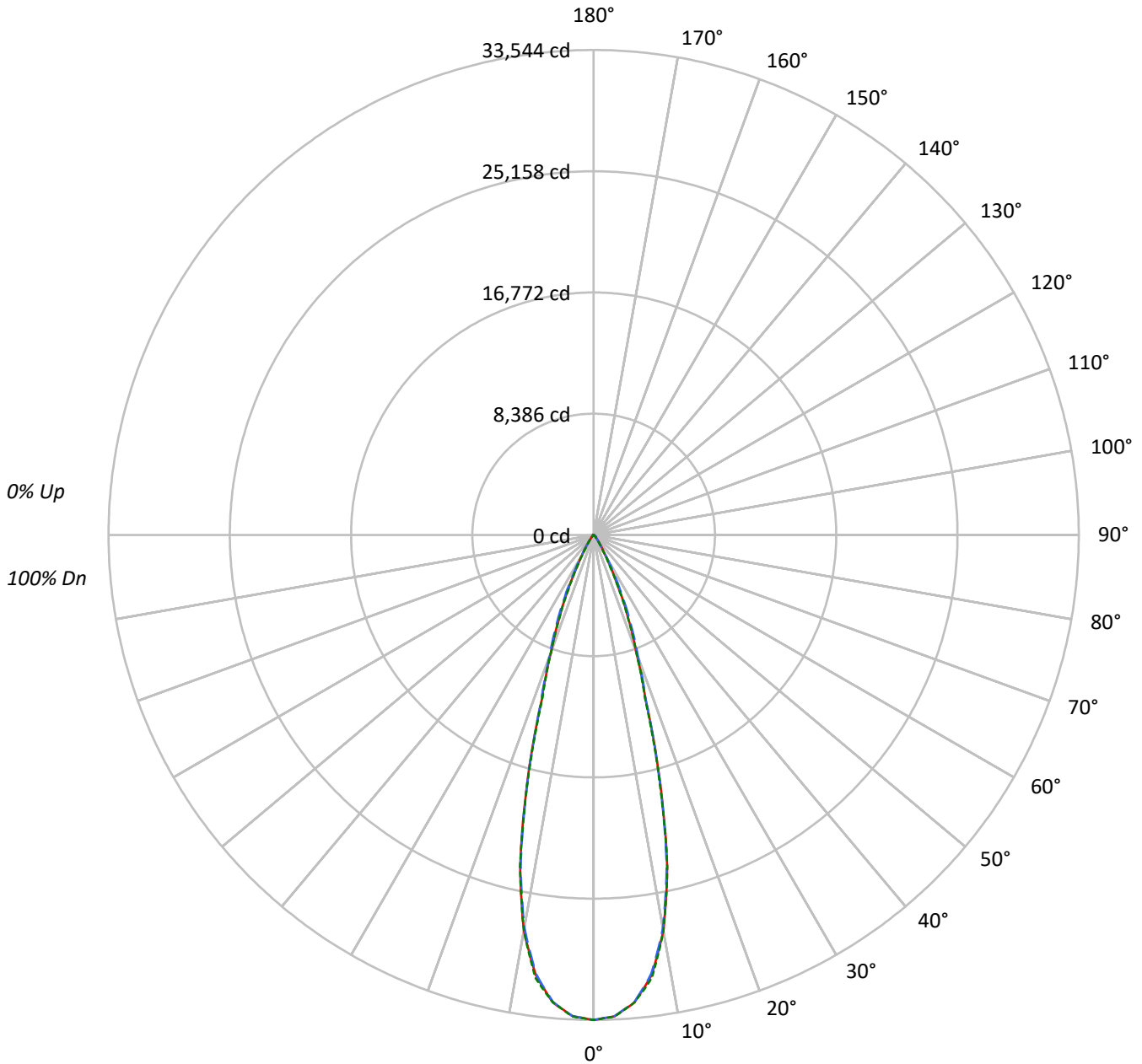
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P771864
CATALOG NUMBER: LD6D80BD010-EU6DR3070959030-6LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P771864

CATALOG NUMBER: LD6D80BD010-EU6DR3070959030-6LBS1LI

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° | 2567572 | 2567572 | 2567572 |
| 5° | 2493867 | 2490954 | 2493990 |
| 10° | 2160064 | 2144830 | 2159551 |
| 15° | 1409339 | 1401763 | 1394718 |
| 20° | 700797 | 727091 | 699860 |
| 25° | 353010 | 398076 | 345781 |
| 30° | 141336 | 154002 | 123146 |
| 35° | 65559 | 62784 | 52627 |
| 40° | 28307 | 31435 | 26659 |
| 45° | 19972 | 24778 | 20145 |
| 50° | 6859 | 18041 | 7252 |
| 55° | 3950 | 7473 | 4177 |
| 60° | 2771 | 3276 | 2771 |
| 65° | 1793 | 1793 | 1793 |
| 70° | 1097 | 739 | 1097 |
| 75° | 0 | 473 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 24778 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2949.7 | 28.3 |
| 10°-20° | 4750.5 | 45.5 |
| 20°-30° | 2052.8 | 19.7 |
| 30°-40° | 467.9 | 4.5 |
| 40°-50° | 160.7 | 1.5 |
| 50°-60° | 39.2 | 0.4 |
| 60°-70° | 10.2 | 0.1 |
| 70°-80° | 1.1 | 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° | 9753.0 | 93.5 |
| 0°-40° | 10220.9 | 98.0 |
| 0°-60° | 10420.8 | 99.9 |
| 0°-90° | 10432.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 10432.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 33544 | 33544 | 33544 | 33544 | 33544 | |
| 5° | 32457 | 32426 | 32419 | 32487 | 32459 | 2952 |
| 15° | 17785 | 17571 | 17689 | 17632 | 17600 | 4762 |
| 25° | 4180 | 4338 | 4713 | 4228 | 4094 | 2001 |
| 35° | 702 | 716 | 672 | 667 | 563 | 476 |
| 45° | 184 | 229 | 229 | 229 | 186 | 131 |
| 55° | 30 | 31 | 56 | 33 | 31 | 29 |
| 65° | 10 | 10 | 10 | 10 | 10 | 10 |
| 75° | 0 | 0 | 2 | 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° | 33544.0 | 33544.0 | 33544.0 | 33544.0 | 33544.0 |
| 2.5° | 33321.7 | 33298.6 | 33311.8 | 33328.3 | 33334.9 |
| 5° | 32457.1 | 32425.8 | 32419.2 | 32486.7 | 32458.7 |
| 7.5° | 30713.0 | 30668.5 | 30601.0 | 30754.2 | 30897.5 |
| 10° | 27791.4 | 27742.0 | 27595.4 | 27667.9 | 27784.8 |
| 12.5° | 23478.2 | 23318.4 | 23315.1 | 23545.7 | 23514.4 |
| 15° | 17784.9 | 17570.8 | 17689.3 | 17631.7 | 17600.4 |
| 17.5° | 11959.8 | 11877.4 | 12035.5 | 11987.8 | 11781.9 |
| 20° | 8603.4 | 8624.8 | 8926.2 | 8774.7 | 8591.9 |
| 22.5° | 6278.0 | 6355.4 | 6712.8 | 6322.4 | 6179.2 |
| 25° | 4179.8 | 4337.9 | 4713.4 | 4227.6 | 4094.2 |
| 27.5° | 2570.8 | 2643.3 | 3023.7 | 2537.9 | 2465.4 |
| 30° | 1599.1 | 1562.9 | 1742.4 | 1495.4 | 1393.3 |
| 32.5° | 1049.1 | 1003.0 | 1060.6 | 951.9 | 869.6 |
| 35° | 701.6 | 716.4 | 671.9 | 667.0 | 563.2 |
| 37.5° | 438.1 | 504.0 | 444.7 | 474.3 | 362.3 |
| 40° | 283.3 | 365.6 | 314.6 | 347.5 | 266.8 |
| 42.5° | 232.2 | 281.6 | 258.6 | 275.0 | 237.2 |
| 45° | 184.5 | 228.9 | 228.9 | 228.9 | 186.1 |
| 47.5° | 102.1 | 153.2 | 196.0 | 156.5 | 108.7 |
| 50° | 57.6 | 77.4 | 151.5 | 80.7 | 60.9 |
| 52.5° | 39.5 | 44.5 | 103.8 | 46.1 | 41.2 |
| 55° | 29.6 | 31.3 | 56.0 | 32.9 | 31.3 |
| 57.5° | 23.1 | 24.7 | 29.6 | 24.7 | 23.1 |
| 60° | 18.1 | 18.1 | 21.4 | 19.8 | 18.1 |
| 62.5° | 13.2 | 13.2 | 14.8 | 13.2 | 13.2 |
| 65° | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 |
| 67.5° | 4.9 | 6.6 | 6.6 | 6.6 | 6.6 |
| 70° | 4.9 | 3.3 | 3.3 | 3.3 | 4.9 |
| 72.5° | 3.3 | 1.6 | 1.6 | 1.6 | 1.6 |
| 75° | 0.0 | 0.0 | 1.6 | 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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