

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: P771072

Luminaire Tested: LD6D75BD010-EU6DR3070959027-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771072
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-EU6DR3070959027-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8091.4 lumens
Efficiency: N/A
Efficacy: 111.8 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

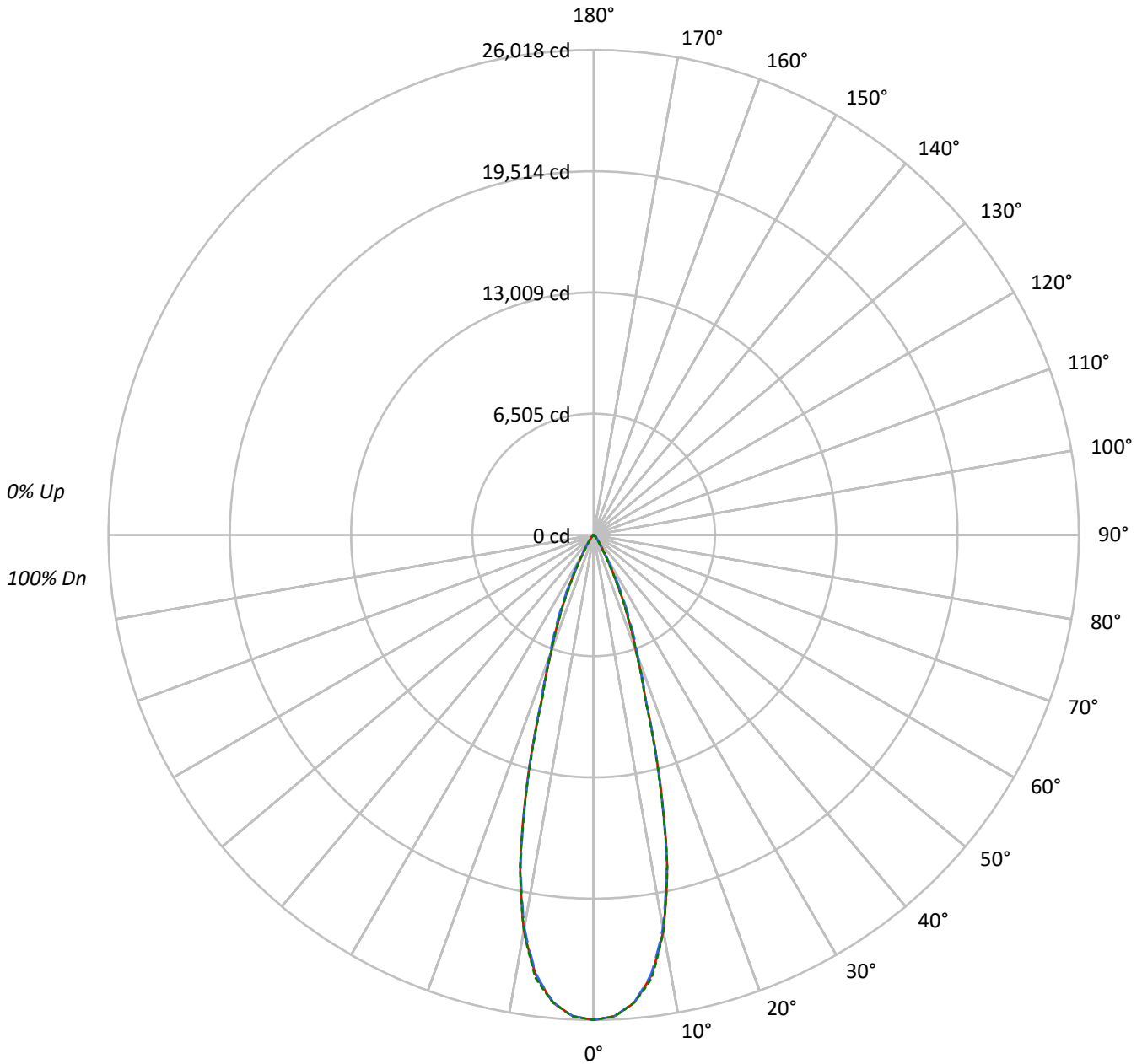


Downlight

TEST NUMBER: P771072

CATALOG NUMBER: LD6D75BD010-EU6DR3070959027-6LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P771072

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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 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | 100 | | | | | | | | | | | | | |
| 1 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | | | | | | 96 | | | | | | | | | | | | | |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | | | | | | 92 | | | | | | | | | | | | | |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | | | | | | 89 | | | | | | | | | | | | | |
| 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | | | | | | 85 | | | | | | | | | | | | | |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 86 | 84 | 88 | 86 | 83 | 82 | | | | | | 82 | | | | | | | | | | | | | |
| 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | | | | | | 79 | | | | | | | | | | | | | |
| 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | | | | | | 77 | | | | | | | | | | | | | |
| 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | | | | | | 74 | | | | | | | | | | | | | |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | | | | | | 72 | | | | | | | | | | | | | |
| 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | | | | | | 69 | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1991475 | 1991475 | 1991475 |
| 5° | 1934302 | 1932043 | 1934402 |
| 10° | 1675400 | 1663585 | 1675003 |
| 15° | 1093117 | 1087245 | 1081778 |
| 20° | 543554 | 563951 | 542829 |
| 25° | 273807 | 308764 | 268199 |
| 30° | 109624 | 119452 | 95517 |
| 35° | 50851 | 48702 | 40825 |
| 40° | 21952 | 24381 | 20674 |
| 45° | 15490 | 19225 | 15620 |
| 50° | 5323 | 13992 | 5633 |
| 55° | 3069 | 5792 | 3243 |
| 60° | 2159 | 2541 | 2159 |
| 65° | 1395 | 1395 | 1395 |
| 70° | 850 | 582 | 850 |
| 75° | 0 | 384 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19225 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2287.9 | 28.3 |
| 10°-20° | 3684.6 | 45.5 |
| 20°-30° | 1592.2 | 19.7 |
| 30°-40° | 362.9 | 4.5 |
| 40°-50° | 124.6 | 1.5 |
| 50°-60° | 30.4 | 0.4 |
| 60°-70° | 7.9 | 0.1 |
| 70°-80° | 0.8 | 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° | 7564.7 | 93.5 |
| 0°-40° | 7927.6 | 98.0 |
| 0°-60° | 8082.6 | 99.9 |
| 0°-90° | 8091.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8091.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 26018 | 26018 | 26018 | 26018 | 26018 | |
| 5° | 25174 | 25150 | 25145 | 25198 | 25176 | 2290 |
| 15° | 13794 | 13628 | 13720 | 13676 | 13651 | 3694 |
| 25° | 3242 | 3365 | 3656 | 3279 | 3176 | 1552 |
| 35° | 544 | 556 | 521 | 517 | 437 | 369 |
| 45° | 143 | 178 | 178 | 178 | 144 | 102 |
| 55° | 23 | 24 | 43 | 26 | 24 | 22 |
| 65° | 8 | 8 | 8 | 8 | 8 | 8 |
| 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° | 26017.6 | 26017.6 | 26017.6 | 26017.6 | 26017.6 |
| 2.5° | 25845.2 | 25827.3 | 25837.5 | 25850.3 | 25855.4 |
| 5° | 25174.5 | 25150.3 | 25145.1 | 25197.5 | 25175.8 |
| 7.5° | 23821.8 | 23787.3 | 23734.9 | 23853.7 | 23964.9 |
| 10° | 21555.7 | 21517.4 | 21403.7 | 21459.9 | 21550.6 |
| 12.5° | 18210.3 | 18086.4 | 18083.8 | 18262.6 | 18238.4 |
| 15° | 13794.4 | 13628.3 | 13720.3 | 13675.6 | 13651.3 |
| 17.5° | 9276.3 | 9212.4 | 9335.1 | 9298.0 | 9138.3 |
| 20° | 6673.0 | 6689.6 | 6923.4 | 6805.9 | 6664.1 |
| 22.5° | 4869.4 | 4929.4 | 5206.6 | 4903.8 | 4792.7 |
| 25° | 3242.0 | 3364.6 | 3655.9 | 3279.0 | 3175.6 |
| 27.5° | 1994.0 | 2050.2 | 2345.3 | 1968.4 | 1912.2 |
| 30° | 1240.3 | 1212.2 | 1351.5 | 1159.9 | 1080.7 |
| 32.5° | 813.7 | 777.9 | 822.6 | 738.3 | 674.5 |
| 35° | 544.2 | 555.7 | 521.2 | 517.3 | 436.9 |
| 37.5° | 339.8 | 390.9 | 344.9 | 367.9 | 281.0 |
| 40° | 219.7 | 283.6 | 244.0 | 269.5 | 206.9 |
| 42.5° | 180.1 | 218.4 | 200.5 | 213.3 | 183.9 |
| 45° | 143.1 | 177.6 | 177.6 | 177.6 | 144.3 |
| 47.5° | 79.2 | 118.8 | 152.0 | 121.4 | 84.3 |
| 50° | 44.7 | 60.0 | 117.5 | 62.6 | 47.3 |
| 52.5° | 30.7 | 34.5 | 80.5 | 35.8 | 31.9 |
| 55° | 23.0 | 24.3 | 43.4 | 25.5 | 24.3 |
| 57.5° | 17.9 | 19.2 | 23.0 | 19.2 | 17.9 |
| 60° | 14.1 | 14.1 | 16.6 | 15.3 | 14.1 |
| 62.5° | 10.2 | 10.2 | 11.5 | 10.2 | 10.2 |
| 65° | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 |
| 67.5° | 3.8 | 5.1 | 5.1 | 5.1 | 5.1 |
| 70° | 3.8 | 2.6 | 2.6 | 2.6 | 3.8 |
| 72.5° | 2.6 | 1.3 | 1.3 | 1.3 | 1.3 |
| 75° | 0.0 | 0.0 | 1.3 | 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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