

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: P767945

Luminaire Tested: LD6D55D010-EU6DR3055659027-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P767945
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: LD6D55D010-EU6DR3055659027-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4968.9 lumens
Efficiency: N/A
Efficacy: 85.4 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

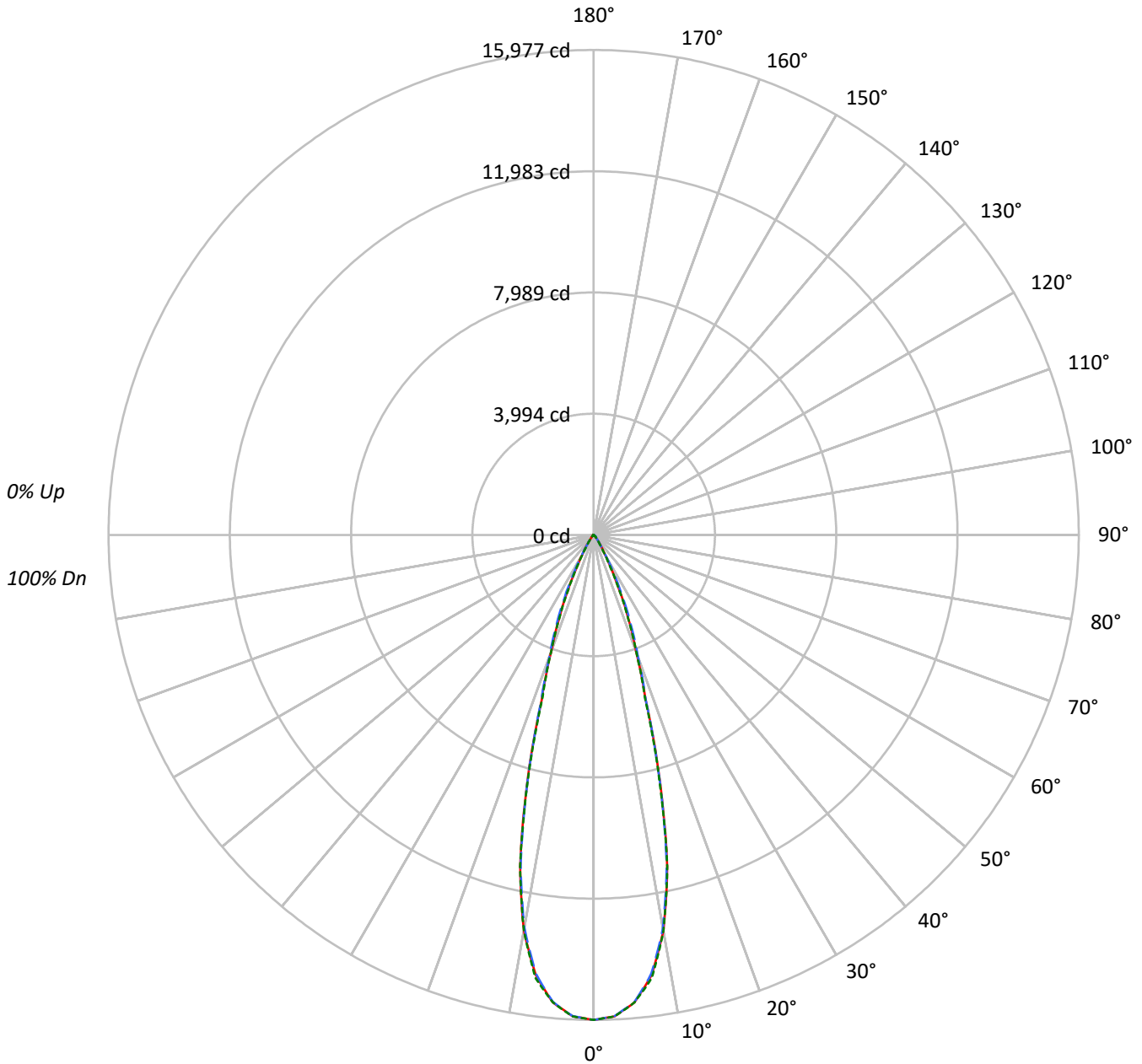
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P767945
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Luminous Intensity Polar Plot





TEST NUMBER: P767945

CATALOG NUMBER: LD6D55D010-EU6DR3055659027-6LBDP1B

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 | 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° | 1222957 | 1222957 | 1222957 |
| 5° | 1187850 | 1186460 | 1187912 |
| 10° | 1028859 | 1021599 | 1028610 |
| 15° | 671280 | 667674 | 664315 |
| 20° | 333798 | 346317 | 333350 |
| 25° | 168144 | 189604 | 164698 |
| 30° | 67323 | 73350 | 58652 |
| 35° | 31228 | 29902 | 25071 |
| 40° | 13479 | 14968 | 12700 |
| 45° | 9515 | 11799 | 9591 |
| 50° | 3275 | 8598 | 3453 |
| 55° | 1882 | 3563 | 1988 |
| 60° | 1317 | 1561 | 1317 |
| 65° | 851 | 851 | 851 |
| 70° | 537 | 358 | 537 |
| 75° | 0 | 237 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11799 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1405.0 | 28.3 |
| 10°-20° | 2262.7 | 45.5 |
| 20°-30° | 977.8 | 19.7 |
| 30°-40° | 222.9 | 4.5 |
| 40°-50° | 76.5 | 1.5 |
| 50°-60° | 18.7 | 0.4 |
| 60°-70° | 4.8 | 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° | 4645.4 | 93.5 |
| 0°-40° | 4868.3 | 98.0 |
| 0°-60° | 4963.5 | 99.9 |
| 0°-90° | 4968.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4968.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 15977 | 15977 | 15977 | 15977 | 15977 | |
| 5° | 15460 | 15445 | 15442 | 15474 | 15460 | 1406 |
| 15° | 8471 | 8369 | 8426 | 8398 | 8383 | 2268 |
| 25° | 1991 | 2066 | 2245 | 2014 | 1950 | 953 |
| 35° | 334 | 341 | 320 | 318 | 268 | 227 |
| 45° | 88 | 109 | 109 | 109 | 89 | 62 |
| 55° | 14 | 15 | 27 | 16 | 15 | 14 |
| 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 |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 15977.3 | 15977.3 | 15977.3 | 15977.3 | 15977.3 |
| 2.5° | 15871.4 | 15860.4 | 15866.7 | 15874.5 | 15877.7 |
| 5° | 15459.6 | 15444.7 | 15441.5 | 15473.7 | 15460.4 |
| 7.5° | 14628.9 | 14607.7 | 14575.5 | 14648.5 | 14716.7 |
| 10° | 13237.3 | 13213.8 | 13143.9 | 13178.5 | 13234.1 |
| 12.5° | 11182.9 | 11106.8 | 11105.2 | 11215.0 | 11200.1 |
| 15° | 8471.1 | 8369.1 | 8425.6 | 8398.1 | 8383.2 |
| 17.5° | 5696.5 | 5657.3 | 5732.6 | 5709.9 | 5611.8 |
| 20° | 4097.9 | 4108.1 | 4251.6 | 4179.5 | 4092.4 |
| 22.5° | 2990.3 | 3027.1 | 3197.3 | 3011.4 | 2943.2 |
| 25° | 1990.9 | 2066.2 | 2245.0 | 2013.6 | 1950.1 |
| 27.5° | 1224.5 | 1259.0 | 1440.2 | 1208.8 | 1174.3 |
| 30° | 761.7 | 744.4 | 829.9 | 712.3 | 663.6 |
| 32.5° | 499.7 | 477.7 | 505.2 | 453.4 | 414.2 |
| 35° | 334.2 | 341.2 | 320.0 | 317.7 | 268.3 |
| 37.5° | 208.7 | 240.0 | 211.8 | 225.9 | 172.6 |
| 40° | 134.9 | 174.1 | 149.8 | 165.5 | 127.1 |
| 42.5° | 110.6 | 134.1 | 123.2 | 131.0 | 113.0 |
| 45° | 87.9 | 109.0 | 109.0 | 109.0 | 88.6 |
| 47.5° | 48.6 | 73.0 | 93.3 | 74.5 | 51.8 |
| 50° | 27.5 | 36.9 | 72.2 | 38.4 | 29.0 |
| 52.5° | 18.8 | 21.2 | 49.4 | 22.0 | 19.6 |
| 55° | 14.1 | 14.9 | 26.7 | 15.7 | 14.9 |
| 57.5° | 11.0 | 11.8 | 14.1 | 11.8 | 11.0 |
| 60° | 8.6 | 8.6 | 10.2 | 9.4 | 8.6 |
| 62.5° | 6.3 | 6.3 | 7.1 | 6.3 | 6.3 |
| 65° | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| 67.5° | 2.4 | 3.1 | 3.1 | 3.1 | 3.1 |
| 70° | 2.4 | 1.6 | 1.6 | 1.6 | 2.4 |
| 72.5° | 1.6 | 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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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