

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: P791210

Luminaire Tested: LER6D30D010-EC6DR1515309035-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P791210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D30D010-EC6DR1515309035-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3291.2 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

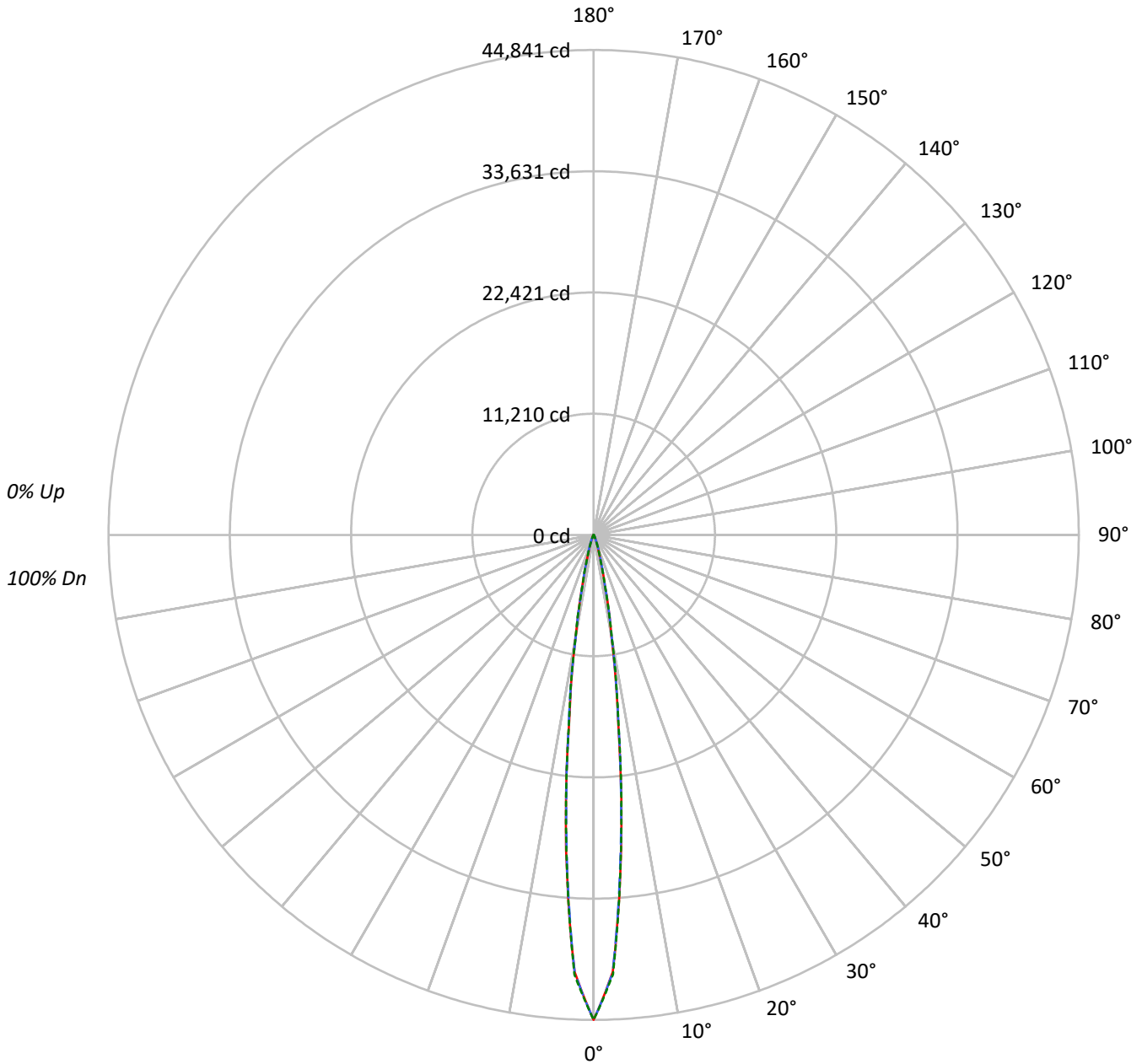
Input Watts (W): 29
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P791210
CATALOG NUMBER: LER6D30D010-EC6DR1515309035-6LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P791210

CATALOG NUMBER: LER6D30D010-EC6DR1515309035-6LBDP1MW

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 | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 103 | 101 | 100 | 100 | 98 | | | | | | 98 | | | | | | | | | | | | | |
| 2 | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 | 102 | 101 | 100 | 100 | 98 | 98 | 96 | | | | | | 96 | | | | | | | | | | | | | |
| 3 | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99 | 100 | 99 | 97 | 98 | 97 | 96 | 94 | | | | | | 94 | | | | | | | | | | | | | |
| 4 | 108 | 103 | 100 | 98 | 106 | 102 | 99 | 97 | 100 | 98 | 96 | 99 | 97 | 95 | 97 | 95 | 94 | 93 | | | | | | 93 | | | | | | | | | | | | | |
| 5 | 106 | 101 | 98 | 95 | 104 | 100 | 97 | 95 | 98 | 96 | 94 | 97 | 95 | 93 | 96 | 94 | 92 | 92 | | | | | | 92 | | | | | | | | | | | | | |
| 6 | 104 | 99 | 95 | 93 | 102 | 98 | 95 | 93 | 97 | 94 | 92 | 96 | 93 | 92 | 95 | 93 | 91 | 90 | | | | | | 90 | | | | | | | | | | | | | |
| 7 | 102 | 97 | 94 | 91 | 101 | 96 | 93 | 91 | 95 | 93 | 91 | 94 | 92 | 90 | 93 | 91 | 90 | 89 | | | | | | 89 | | | | | | | | | | | | | |
| 8 | 100 | 95 | 92 | 90 | 99 | 95 | 92 | 90 | 94 | 91 | 89 | 93 | 91 | 89 | 92 | 90 | 89 | 88 | | | | | | 88 | | | | | | | | | | | | | |
| 9 | 99 | 93 | 90 | 88 | 98 | 93 | 90 | 88 | 92 | 90 | 88 | 92 | 89 | 88 | 91 | 89 | 88 | 87 | | | | | | 87 | | | | | | | | | | | | | |
| 10 | 97 | 92 | 89 | 87 | 96 | 92 | 89 | 87 | 91 | 89 | 87 | 91 | 88 | 87 | 90 | 88 | 86 | 86 | | | | | | 86 | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 5045507 | 5045507 | 5045507 |
| 5° | 2964983 | 2926587 | 2949738 |
| 10° | 884911 | 891106 | 904748 |
| 15° | 220113 | 224395 | 217472 |
| 20° | 65859 | 76267 | 67258 |
| 25° | 23214 | 29579 | 23510 |
| 30° | 8529 | 11232 | 8671 |
| 35° | 4270 | 4822 | 4132 |
| 40° | 2699 | 2968 | 2699 |
| 45° | 1995 | 2128 | 1995 |
| 50° | 1585 | 1585 | 1585 |
| 55° | 1322 | 1322 | 1322 |
| 60° | 1067 | 1067 | 1067 |
| 65° | 814 | 814 | 814 |
| 70° | 695 | 695 | 695 |
| 75° | 431 | 431 | 574 |
| 80° | 300 | 300 | 300 |
| 85° | 158 | 158 | 158 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2128 cd/sqm



TEST NUMBER: P791210

CATALOG NUMBER: LER6D30D010-EC6DR1515309035-6LBDP1MW

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2134.5 | 64.9 |
| 10°-20° | 878.0 | 26.7 |
| 20°-30° | 174.4 | 5.3 |
| 30°-40° | 43.5 | 1.3 |
| 40°-50° | 22.9 | 0.7 |
| 50°-60° | 17.0 | 0.5 |
| 60°-70° | 12.0 | 0.4 |
| 70°-80° | 6.8 | 0.2 |
| 80°-90° | 2.1 | 0.1 |
| 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° | 3186.9 | 96.8 |
| 0°-40° | 3230.4 | 98.2 |
| 0°-60° | 3270.3 | 99.4 |
| 0°-90° | 3291.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3291.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 44841 | 44841 | 44841 | 44841 | 44841 | |
| 5° | 29175 | 28875 | 28797 | 28996 | 29025 | 2130 |
| 15° | 2534 | 2582 | 2584 | 2538 | 2504 | 869 |
| 25° | 298 | 338 | 380 | 336 | 302 | 157 |
| 35° | 59 | 63 | 66 | 63 | 57 | 40 |
| 45° | 28 | 28 | 30 | 28 | 28 | 22 |
| 55° | 19 | 19 | 19 | 19 | 19 | 17 |
| 65° | 11 | 11 | 11 | 11 | 11 | 12 |
| 75° | 6 | 6 | 6 | 6 | 8 | 7 |
| 85° | 2 | 2 | 2 | 2 | 2 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P791210

CATALOG NUMBER: LER6D30D010-EC6DR1515309035-6LBDP1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 44841.0 | 44841.0 | 44841.0 | 44841.0 | 44841.0 |
| 2.5° | 40448.4 | 40482.6 | 40495.9 | 40535.7 | 40683.8 |
| 5° | 29174.6 | 28874.6 | 28796.8 | 28996.1 | 29024.6 |
| 7.5° | 17281.9 | 17342.6 | 17564.7 | 17614.1 | 17435.6 |
| 10° | 9483.8 | 9561.6 | 9550.2 | 9618.6 | 9696.4 |
| 12.5° | 4850.1 | 4789.3 | 4770.4 | 4848.2 | 4740.0 |
| 15° | 2534.2 | 2581.7 | 2583.5 | 2538.0 | 2503.8 |
| 17.5° | 1363.0 | 1418.0 | 1509.1 | 1435.1 | 1321.2 |
| 20° | 804.9 | 854.2 | 932.1 | 871.3 | 822.0 |
| 22.5° | 497.3 | 537.2 | 592.3 | 544.8 | 504.9 |
| 25° | 298.0 | 337.9 | 379.7 | 336.0 | 301.8 |
| 27.5° | 176.5 | 210.7 | 237.3 | 208.8 | 174.6 |
| 30° | 113.9 | 132.9 | 150.0 | 131.0 | 115.8 |
| 32.5° | 79.7 | 87.3 | 94.9 | 87.3 | 79.7 |
| 35° | 58.8 | 62.6 | 66.4 | 62.6 | 56.9 |
| 37.5° | 45.6 | 49.4 | 51.3 | 47.5 | 43.7 |
| 40° | 38.0 | 39.9 | 41.8 | 39.9 | 38.0 |
| 42.5° | 32.3 | 34.2 | 34.2 | 34.2 | 32.3 |
| 45° | 28.5 | 28.5 | 30.4 | 28.5 | 28.5 |
| 47.5° | 24.7 | 24.7 | 26.6 | 24.7 | 24.7 |
| 50° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 52.5° | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 |
| 55° | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| 57.5° | 17.1 | 17.1 | 17.1 | 17.1 | 17.1 |
| 60° | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| 62.5° | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 |
| 65° | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 |
| 67.5° | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 |
| 70° | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| 72.5° | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| 75° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 77.5° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 80° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 82.5° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 85° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 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)