

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P767177

Luminaire Tested: LD6D50D010-EU6DR3040509030-6LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P767177
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: LD6D50D010-EU6DR3040509030-6LBCSSQMW
Description: 6 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5136.4 lumens
Efficiency: N/A
Efficacy: 109.3 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

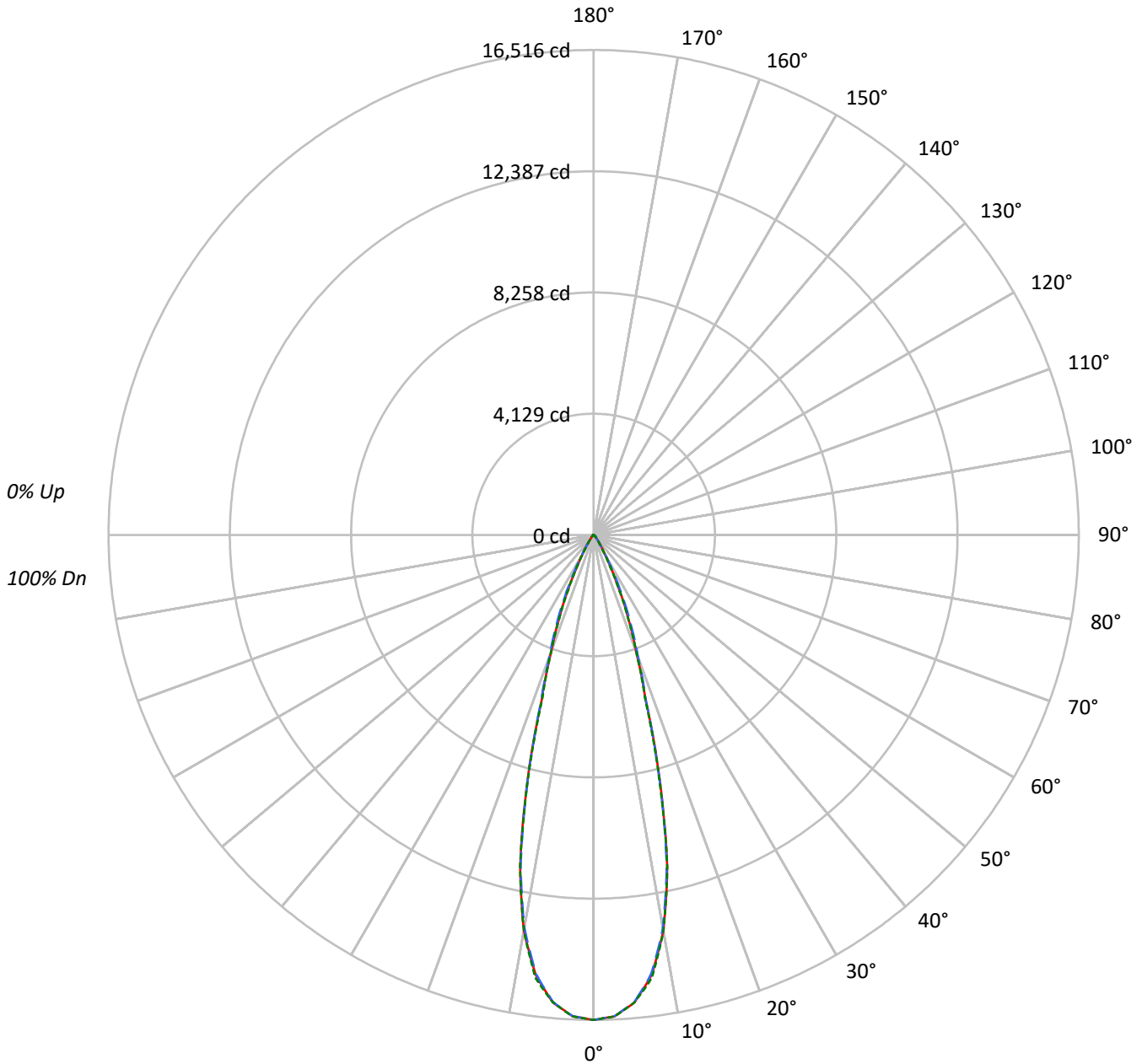
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | | | | | | |
| RC | 80 | | | | | 70 | | | | | 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° | 1264191 | 1264191 | 1264191 |
| 5° | 1227905 | 1226468 | 1227966 |
| 10° | 1063547 | 1056046 | 1063298 |
| 15° | 693912 | 690188 | 686717 |
| 20° | 345047 | 357998 | 344591 |
| 25° | 173811 | 195998 | 170255 |
| 30° | 69594 | 75825 | 60632 |
| 35° | 32275 | 30911 | 25912 |
| 40° | 13939 | 15478 | 13130 |
| 45° | 9829 | 12200 | 9916 |
| 50° | 3382 | 8883 | 3572 |
| 55° | 1948 | 3683 | 2055 |
| 60° | 1362 | 1607 | 1362 |
| 65° | 887 | 887 | 887 |
| 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: 12200 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1452.3 | 28.3 |
| 10°-20° | 2339.0 | 45.5 |
| 20°-30° | 1010.7 | 19.7 |
| 30°-40° | 230.4 | 4.5 |
| 40°-50° | 79.1 | 1.5 |
| 50°-60° | 19.3 | 0.4 |
| 60°-70° | 5.0 | 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° | 4802.1 | 93.5 |
| 0°-40° | 5032.4 | 98.0 |
| 0°-60° | 5130.9 | 99.9 |
| 0°-90° | 5136.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5136.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 16516 | 16516 | 16516 | 16516 | 16516 | |
| 5° | 15981 | 15966 | 15962 | 15996 | 15982 | 1454 |
| 15° | 8757 | 8651 | 8710 | 8681 | 8666 | 2345 |
| 25° | 2058 | 2136 | 2321 | 2082 | 2016 | 985 |
| 35° | 345 | 353 | 331 | 328 | 277 | 234 |
| 45° | 91 | 113 | 113 | 113 | 92 | 64 |
| 55° | 15 | 15 | 28 | 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 |



TEST NUMBER: P767177

CATALOG NUMBER: LD6D50D010-EU6DR3040509030-6LBCSSQMW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 16516.0 | 16516.0 | 16516.0 | 16516.0 | 16516.0 |
| 2.5° | 16406.6 | 16395.2 | 16401.7 | 16409.8 | 16413.1 |
| 5° | 15980.9 | 15965.5 | 15962.2 | 15995.5 | 15981.7 |
| 7.5° | 15122.1 | 15100.2 | 15067.0 | 15142.4 | 15213.0 |
| 10° | 13683.6 | 13659.3 | 13587.1 | 13622.8 | 13680.4 |
| 12.5° | 11559.9 | 11481.3 | 11479.7 | 11593.2 | 11577.8 |
| 15° | 8756.7 | 8651.3 | 8709.7 | 8681.3 | 8665.9 |
| 17.5° | 5888.6 | 5848.1 | 5925.9 | 5902.4 | 5801.1 |
| 20° | 4236.0 | 4246.6 | 4395.0 | 4320.4 | 4230.4 |
| 22.5° | 3091.1 | 3129.2 | 3305.2 | 3113.0 | 3042.4 |
| 25° | 2058.0 | 2135.9 | 2320.7 | 2081.5 | 2015.9 |
| 27.5° | 1265.8 | 1301.5 | 1488.8 | 1249.6 | 1213.9 |
| 30° | 787.4 | 769.5 | 857.9 | 736.3 | 686.0 |
| 32.5° | 516.5 | 493.8 | 522.2 | 468.7 | 428.1 |
| 35° | 345.4 | 352.7 | 330.8 | 328.4 | 277.3 |
| 37.5° | 215.7 | 248.1 | 218.9 | 233.5 | 178.4 |
| 40° | 139.5 | 180.0 | 154.9 | 171.1 | 131.4 |
| 42.5° | 114.3 | 138.7 | 127.3 | 135.4 | 116.8 |
| 45° | 90.8 | 112.7 | 112.7 | 112.7 | 91.6 |
| 47.5° | 50.3 | 75.4 | 96.5 | 77.0 | 53.5 |
| 50° | 28.4 | 38.1 | 74.6 | 39.7 | 30.0 |
| 52.5° | 19.5 | 21.9 | 51.1 | 22.7 | 20.3 |
| 55° | 14.6 | 15.4 | 27.6 | 16.2 | 15.4 |
| 57.5° | 11.4 | 12.2 | 14.6 | 12.2 | 11.4 |
| 60° | 8.9 | 8.9 | 10.5 | 9.7 | 8.9 |
| 62.5° | 6.5 | 6.5 | 7.3 | 6.5 | 6.5 |
| 65° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 67.5° | 2.4 | 3.2 | 3.2 | 3.2 | 3.2 |
| 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 |

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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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