

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: P767173

Luminaire Tested: LD6D50D010-EU6DR3040509027-6LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P767173
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-EU6DR3040509027-6LBSQW1B
Description: 6 INCH SQAURE 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: 4145.4 lumens
Efficiency: N/A
Efficacy: 88.2 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

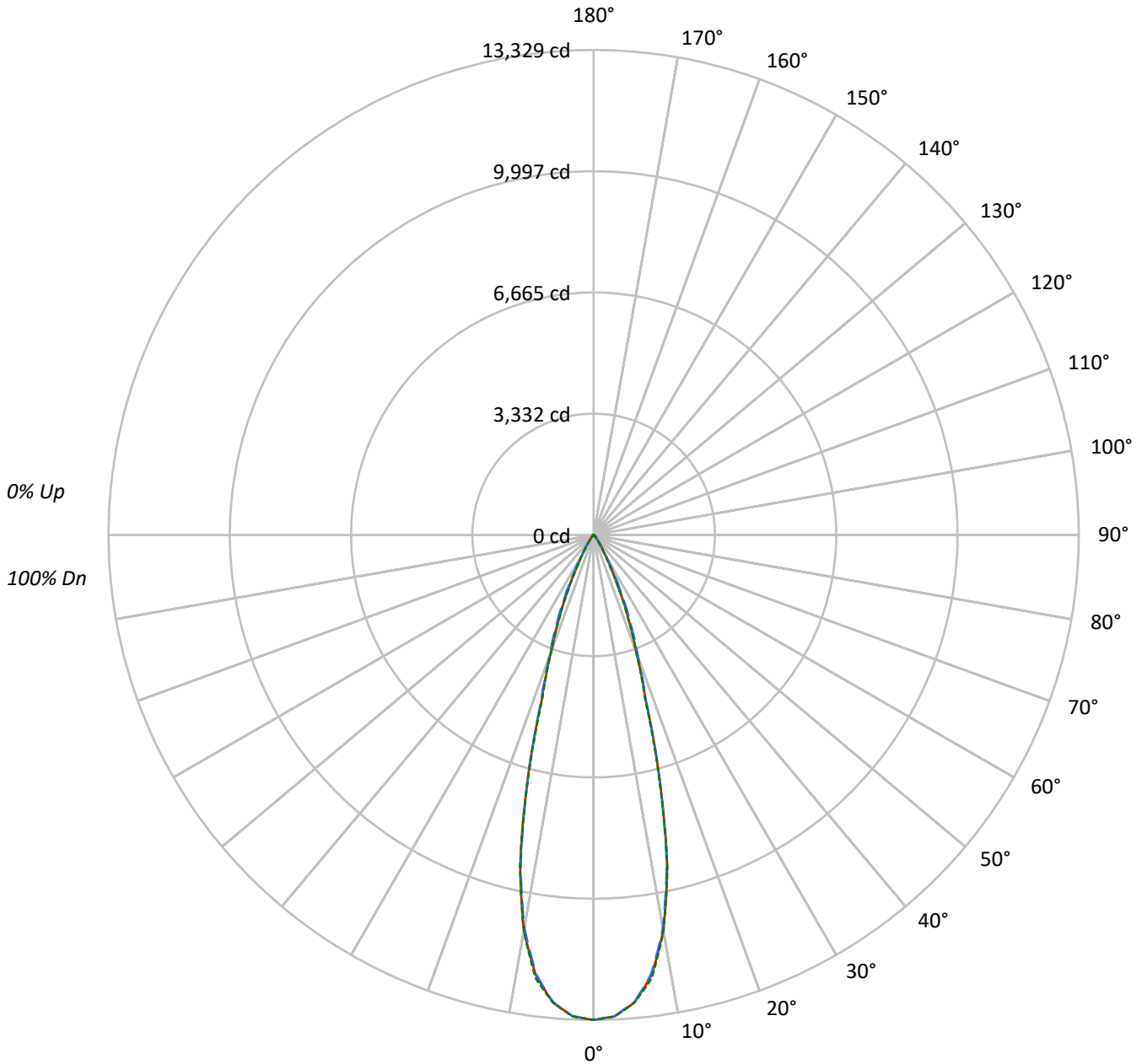
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | | | | | | | | | 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 | 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° | 1020278 | 1020278 | 1020278 |
| 5° | 990982 | 989829 | 991036 |
| 10° | 858347 | 852293 | 858137 |
| 15° | 560030 | 557019 | 554221 |
| 20° | 278473 | 288924 | 278098 |
| 25° | 140273 | 158187 | 137402 |
| 30° | 56160 | 61198 | 48930 |
| 35° | 26052 | 24949 | 20912 |
| 40° | 11251 | 12490 | 10592 |
| 45° | 7935 | 9851 | 8010 |
| 50° | 2727 | 7169 | 2882 |
| 55° | 1575 | 2976 | 1655 |
| 60° | 1102 | 1301 | 1102 |
| 65° | 706 | 706 | 706 |
| 70° | 448 | 291 | 448 |
| 75° | 0 | 207 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9851 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1172.1 | 28.3 |
| 10°-20° | 1887.7 | 45.5 |
| 20°-30° | 815.7 | 19.7 |
| 30°-40° | 185.9 | 4.5 |
| 40°-50° | 63.8 | 1.5 |
| 50°-60° | 15.6 | 0.4 |
| 60°-70° | 4.0 | 0.1 |
| 70°-80° | 0.4 | 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° | 3875.5 | 93.5 |
| 0°-40° | 4061.5 | 98.0 |
| 0°-60° | 4140.9 | 99.9 |
| 0°-90° | 4145.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4145.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 13329 | 13329 | 13329 | 13329 | 13329 | |
| 5° | 12897 | 12885 | 12882 | 12909 | 12898 | 1173 |
| 15° | 7067 | 6982 | 7029 | 7006 | 6994 | 1892 |
| 25° | 1661 | 1724 | 1873 | 1680 | 1627 | 795 |
| 35° | 279 | 285 | 267 | 265 | 224 | 189 |
| 45° | 73 | 91 | 91 | 91 | 74 | 52 |
| 55° | 12 | 12 | 22 | 13 | 12 | 11 |
| 65° | 4 | 4 | 4 | 4 | 4 | 4 |
| 75° | 0 | 0 | 1 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P767173

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 13329.4 | 13329.4 | 13329.4 | 13329.4 | 13329.4 |
| 2.5° | 13241.0 | 13231.9 | 13237.1 | 13243.6 | 13246.3 |
| 5° | 12897.4 | 12885.0 | 12882.4 | 12909.2 | 12898.1 |
| 7.5° | 12204.4 | 12186.7 | 12159.9 | 12220.8 | 12277.7 |
| 10° | 11043.5 | 11023.8 | 10965.6 | 10994.4 | 11040.8 |
| 12.5° | 9329.5 | 9266.0 | 9264.7 | 9356.3 | 9343.9 |
| 15° | 7067.2 | 6982.1 | 7029.2 | 7006.3 | 6993.9 |
| 17.5° | 4752.4 | 4719.7 | 4782.6 | 4763.6 | 4681.8 |
| 20° | 3418.7 | 3427.2 | 3547.0 | 3486.8 | 3414.1 |
| 22.5° | 2494.7 | 2525.4 | 2667.4 | 2512.3 | 2455.4 |
| 25° | 1660.9 | 1723.8 | 1873.0 | 1679.9 | 1626.9 |
| 27.5° | 1021.6 | 1050.4 | 1201.5 | 1008.5 | 979.7 |
| 30° | 635.4 | 621.1 | 692.4 | 594.2 | 553.6 |
| 32.5° | 416.9 | 398.5 | 421.5 | 378.3 | 345.5 |
| 35° | 278.8 | 284.7 | 267.0 | 265.0 | 223.8 |
| 37.5° | 174.1 | 200.3 | 176.7 | 188.5 | 144.0 |
| 40° | 112.6 | 145.3 | 125.0 | 138.1 | 106.0 |
| 42.5° | 92.3 | 111.9 | 102.7 | 109.3 | 94.2 |
| 45° | 73.3 | 91.0 | 91.0 | 91.0 | 74.0 |
| 47.5° | 40.6 | 60.9 | 77.9 | 62.2 | 43.2 |
| 50° | 22.9 | 30.8 | 60.2 | 32.1 | 24.2 |
| 52.5° | 15.7 | 17.7 | 41.2 | 18.3 | 16.4 |
| 55° | 11.8 | 12.4 | 22.3 | 13.1 | 12.4 |
| 57.5° | 9.2 | 9.8 | 11.8 | 9.8 | 9.2 |
| 60° | 7.2 | 7.2 | 8.5 | 7.9 | 7.2 |
| 62.5° | 5.2 | 5.2 | 5.9 | 5.2 | 5.2 |
| 65° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 67.5° | 2.0 | 2.6 | 2.6 | 2.6 | 2.6 |
| 70° | 2.0 | 1.3 | 1.3 | 1.3 | 2.0 |
| 72.5° | 1.3 | 0.7 | 0.7 | 0.7 | 0.7 |
| 75° | 0.0 | 0.0 | 0.7 | 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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