

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: P768005

Luminaire Tested: LD6D55D010-EU6DR3055659050-6LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P768005
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-EU6DR3055659050-6LBSQW1B
Description: 6 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5143.8 lumens
Efficiency: N/A
Efficacy: 88.4 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

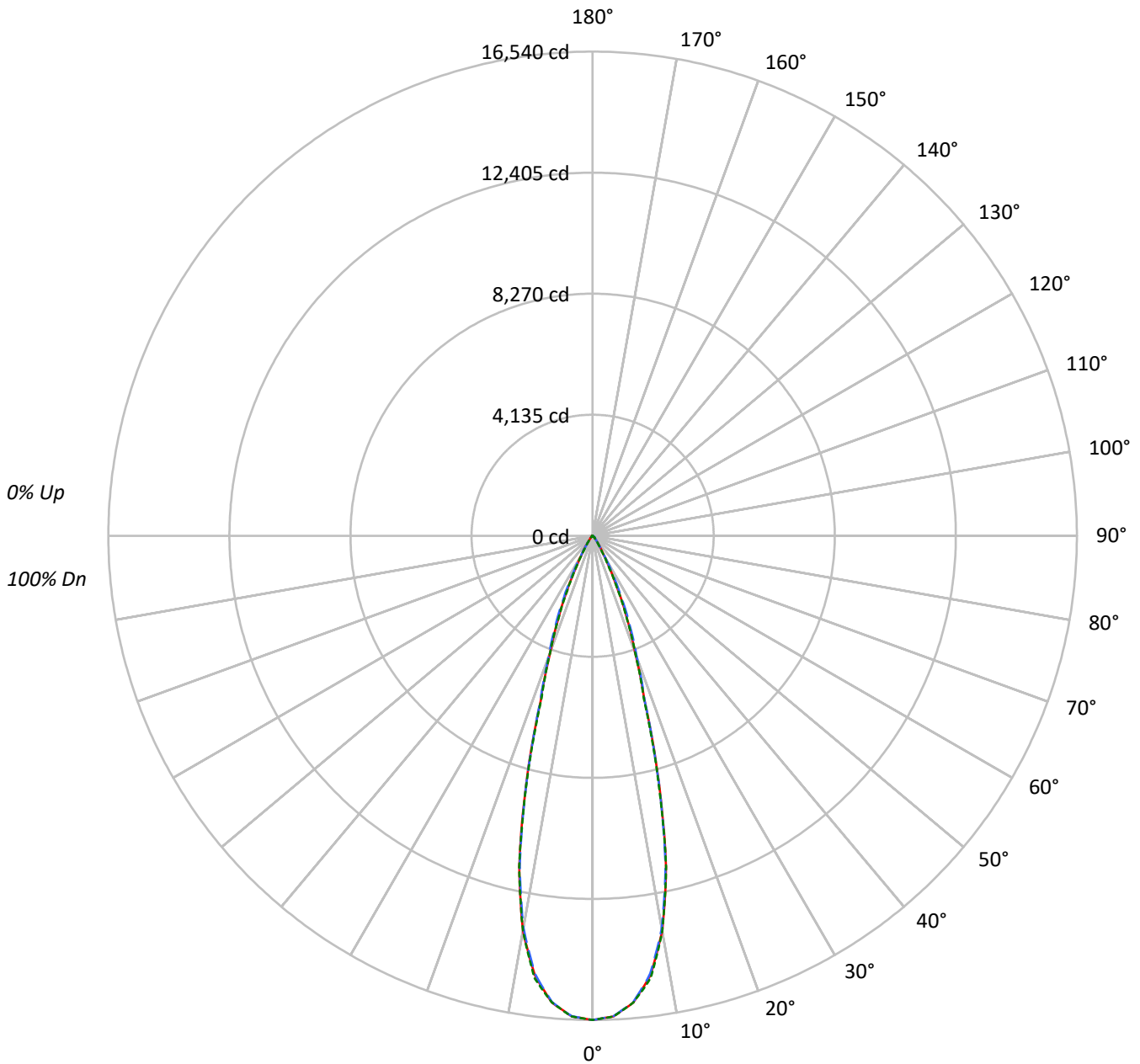
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 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° | 1266020 | 1266020 | 1266020 |
| 5° | 1229680 | 1228243 | 1229741 |
| 10° | 1065086 | 1057578 | 1064837 |
| 15° | 694918 | 691186 | 687707 |
| 20° | 345552 | 358511 | 345087 |
| 25° | 174064 | 196285 | 170500 |
| 30° | 69691 | 75940 | 60720 |
| 35° | 32322 | 30957 | 25949 |
| 40° | 13959 | 15498 | 13150 |
| 45° | 9851 | 12221 | 9937 |
| 50° | 3382 | 8895 | 3572 |
| 55° | 1948 | 3683 | 2055 |
| 60° | 1362 | 1623 | 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: 12221 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1454.4 | 28.3 |
| 10°-20° | 2342.4 | 45.5 |
| 20°-30° | 1012.2 | 19.7 |
| 30°-40° | 230.7 | 4.5 |
| 40°-50° | 79.2 | 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° | 4809.0 | 93.5 |
| 0°-40° | 5039.7 | 98.0 |
| 0°-60° | 5138.3 | 99.9 |
| 0°-90° | 5143.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5143.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 16540 | 16540 | 16540 | 16540 | 16540 | |
| 5° | 16004 | 15989 | 15985 | 16019 | 16005 | 1456 |
| 15° | 8769 | 8664 | 8722 | 8694 | 8678 | 2348 |
| 25° | 2061 | 2139 | 2324 | 2084 | 2019 | 987 |
| 35° | 346 | 353 | 331 | 329 | 278 | 235 |
| 45° | 91 | 113 | 113 | 113 | 92 | 65 |
| 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: P768005

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 16539.9 | 16539.9 | 16539.9 | 16539.9 | 16539.9 |
| 2.5° | 16430.3 | 16418.9 | 16425.4 | 16433.6 | 16436.8 |
| 5° | 16004.0 | 15988.6 | 15985.3 | 16018.6 | 16004.8 |
| 7.5° | 15144.0 | 15122.1 | 15088.8 | 15164.3 | 15235.0 |
| 10° | 13703.4 | 13679.1 | 13606.8 | 13642.5 | 13700.2 |
| 12.5° | 11576.7 | 11497.9 | 11496.3 | 11610.0 | 11594.5 |
| 15° | 8769.4 | 8663.8 | 8722.3 | 8693.9 | 8678.4 |
| 17.5° | 5897.1 | 5856.5 | 5934.5 | 5910.9 | 5809.4 |
| 20° | 4242.2 | 4252.7 | 4401.3 | 4326.6 | 4236.5 |
| 22.5° | 3095.6 | 3133.7 | 3309.9 | 3117.5 | 3046.8 |
| 25° | 2061.0 | 2139.0 | 2324.1 | 2084.5 | 2018.8 |
| 27.5° | 1267.6 | 1303.3 | 1490.9 | 1251.4 | 1215.6 |
| 30° | 788.5 | 770.6 | 859.2 | 737.3 | 687.0 |
| 32.5° | 517.3 | 494.5 | 523.0 | 469.4 | 428.8 |
| 35° | 345.9 | 353.2 | 331.3 | 328.9 | 277.7 |
| 37.5° | 216.0 | 248.5 | 219.3 | 233.9 | 178.7 |
| 40° | 139.7 | 180.3 | 155.1 | 171.3 | 131.6 |
| 42.5° | 114.5 | 138.9 | 127.5 | 135.6 | 116.9 |
| 45° | 91.0 | 112.9 | 112.9 | 112.9 | 91.8 |
| 47.5° | 50.3 | 75.5 | 96.6 | 77.1 | 53.6 |
| 50° | 28.4 | 38.2 | 74.7 | 39.8 | 30.0 |
| 52.5° | 19.5 | 21.9 | 51.2 | 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 | 10.6 | 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 |

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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