

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: P785760

Luminaire Tested: LERS6D05D010-EC6DR300210IC9050-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P785760
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: LERS6D05D010-EC6DR300210IC9050-6LBS1B
Description: 6 INCH ROUND SHALLOW 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: 1191.7 lumens
Efficiency: N/A
Efficacy: 158.9 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): 7.5
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

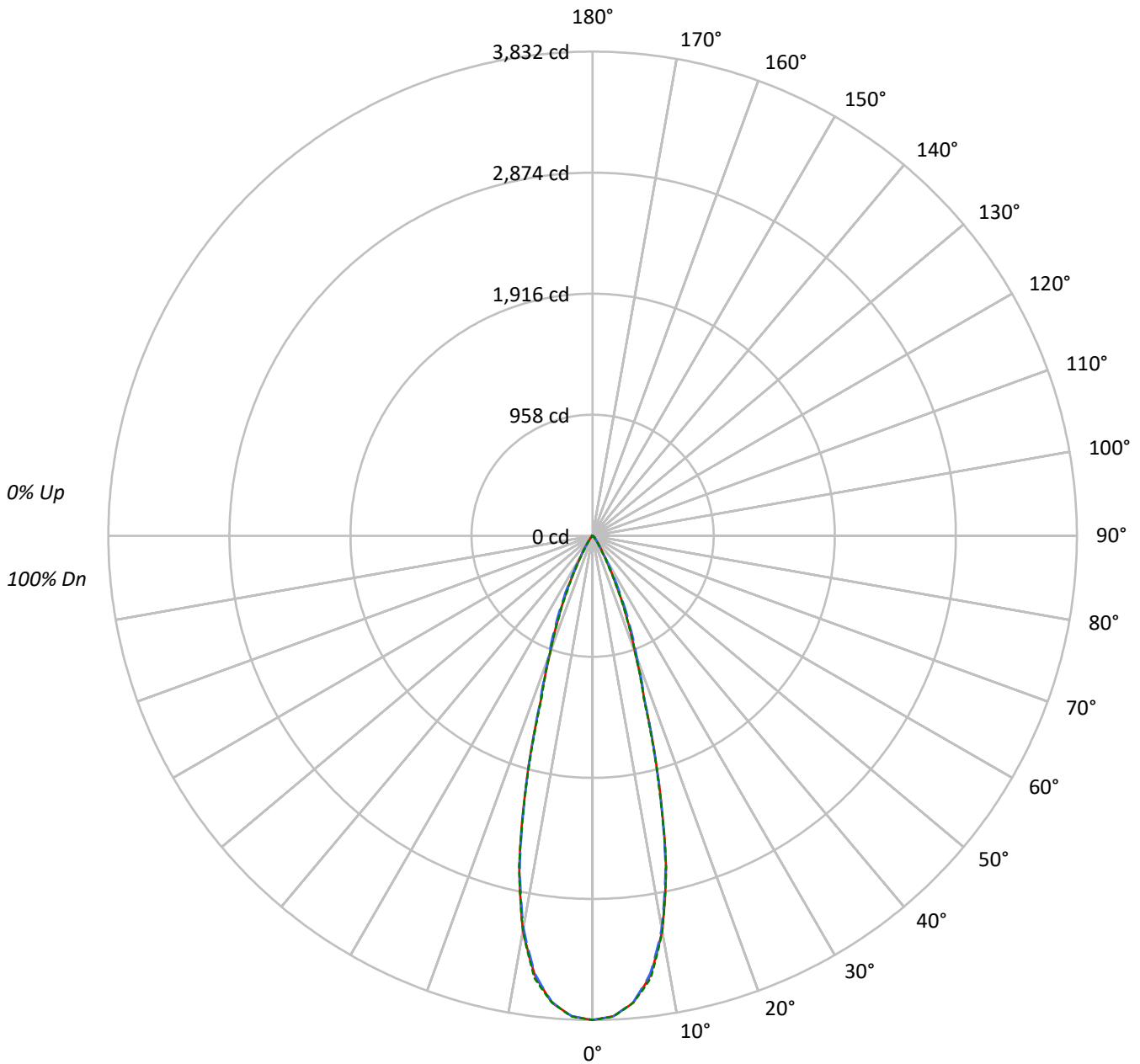


Downlight

TEST NUMBER: P785760

CATALOG NUMBER: LERS6D05D010-EC6DR300210IC9050-6LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P785760

CATALOG NUMBER: LERS6D05D010-EC6DR300210IC9050-6LBS1B

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 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | | | | | | 96 | | | | | | | | | | | | | |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | | | | | | 92 | | | | | | | | | | | | | |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | | | | | | 89 | | | | | | | | | | | | | |
| 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | | | | | | 85 | | | | | | | | | | | | | |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 86 | 84 | 88 | 86 | 83 | 82 | | | | | | 82 | | | | | | | | | | | | | |
| 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | | | | | | 79 | | | | | | | | | | | | | |
| 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | | | | | | 77 | | | | | | | | | | | | | |
| 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | | | | | | 74 | | | | | | | | | | | | | |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | | | | | | 72 | | | | | | | | | | | | | |
| 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | | | | | | 69 | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 293299 | 293299 | 293299 |
| 5° | 284884 | 284546 | 284899 |
| 10° | 246751 | 245010 | 246689 |
| 15° | 160991 | 160127 | 159319 |
| 20° | 80055 | 83060 | 79949 |
| 25° | 40328 | 45471 | 39500 |
| 30° | 16148 | 17589 | 14071 |
| 35° | 7485 | 7176 | 6008 |
| 40° | 3237 | 3587 | 3048 |
| 45° | 2284 | 2836 | 2306 |
| 50° | 786 | 2060 | 834 |
| 55° | 454 | 854 | 480 |
| 60° | 321 | 367 | 321 |
| 65° | 199 | 199 | 199 |
| 70° | 134 | 90 | 134 |
| 75° | 0 | 59 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2836 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 337.0 | 28.3 |
| 10°-20° | 542.7 | 45.5 |
| 20°-30° | 234.5 | 19.7 |
| 30°-40° | 53.4 | 4.5 |
| 40°-50° | 18.4 | 1.5 |
| 50°-60° | 4.5 | 0.4 |
| 60°-70° | 1.2 | 0.1 |
| 70°-80° | 0.1 | 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° | 1114.1 | 93.5 |
| 0°-40° | 1167.6 | 98.0 |
| 0°-60° | 1190.4 | 99.9 |
| 0°-90° | 1191.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1191.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3832 | 3832 | 3832 | 3832 | 3832 | |
| 5° | 3708 | 3704 | 3703 | 3711 | 3708 | 337 |
| 15° | 2032 | 2007 | 2021 | 2014 | 2010 | 544 |
| 25° | 478 | 496 | 538 | 483 | 468 | 229 |
| 35° | 80 | 82 | 77 | 76 | 64 | 54 |
| 45° | 21 | 26 | 26 | 26 | 21 | 15 |
| 55° | 3 | 4 | 6 | 4 | 4 | 3 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3831.8 | 3831.8 | 3831.8 | 3831.8 | 3831.8 |
| 2.5° | 3806.4 | 3803.8 | 3805.3 | 3807.2 | 3807.9 |
| 5° | 3707.7 | 3704.1 | 3703.3 | 3711.0 | 3707.9 |
| 7.5° | 3508.4 | 3503.4 | 3495.6 | 3513.1 | 3529.5 |
| 10° | 3174.7 | 3169.0 | 3152.3 | 3160.6 | 3173.9 |
| 12.5° | 2682.0 | 2663.7 | 2663.4 | 2689.7 | 2686.1 |
| 15° | 2031.6 | 2007.2 | 2020.7 | 2014.1 | 2010.5 |
| 17.5° | 1366.2 | 1356.8 | 1374.9 | 1369.4 | 1345.9 |
| 20° | 982.8 | 985.2 | 1019.7 | 1002.4 | 981.5 |
| 22.5° | 717.2 | 726.0 | 766.8 | 722.2 | 705.9 |
| 25° | 477.5 | 495.5 | 538.4 | 482.9 | 467.7 |
| 27.5° | 293.7 | 301.9 | 345.4 | 289.9 | 281.6 |
| 30° | 182.7 | 178.5 | 199.0 | 170.8 | 159.2 |
| 32.5° | 119.8 | 114.6 | 121.2 | 108.7 | 99.3 |
| 35° | 80.1 | 81.8 | 76.8 | 76.2 | 64.3 |
| 37.5° | 50.0 | 57.6 | 50.8 | 54.2 | 41.4 |
| 40° | 32.4 | 41.8 | 35.9 | 39.7 | 30.5 |
| 42.5° | 26.5 | 32.2 | 29.5 | 31.4 | 27.1 |
| 45° | 21.1 | 26.2 | 26.2 | 26.2 | 21.3 |
| 47.5° | 11.7 | 17.5 | 22.4 | 17.9 | 12.4 |
| 50° | 6.6 | 8.8 | 17.3 | 9.2 | 7.0 |
| 52.5° | 4.5 | 5.1 | 11.9 | 5.3 | 4.7 |
| 55° | 3.4 | 3.6 | 6.4 | 3.8 | 3.6 |
| 57.5° | 2.6 | 2.8 | 3.4 | 2.8 | 2.6 |
| 60° | 2.1 | 2.1 | 2.4 | 2.3 | 2.1 |
| 62.5° | 1.5 | 1.5 | 1.7 | 1.5 | 1.5 |
| 65° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 67.5° | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| 70° | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 |
| 72.5° | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 |
| 75° | 0.0 | 0.0 | 0.2 | 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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