

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: P757137

Luminaire Tested: LD6D02D010-EU6DR300210IC9027-6LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P757137
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: LD6D02D010-EU6DR300210IC9027-6LBDP1LI
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 359.9 lumens
Efficiency: N/A
Efficacy: 70.6 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): 5.1
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



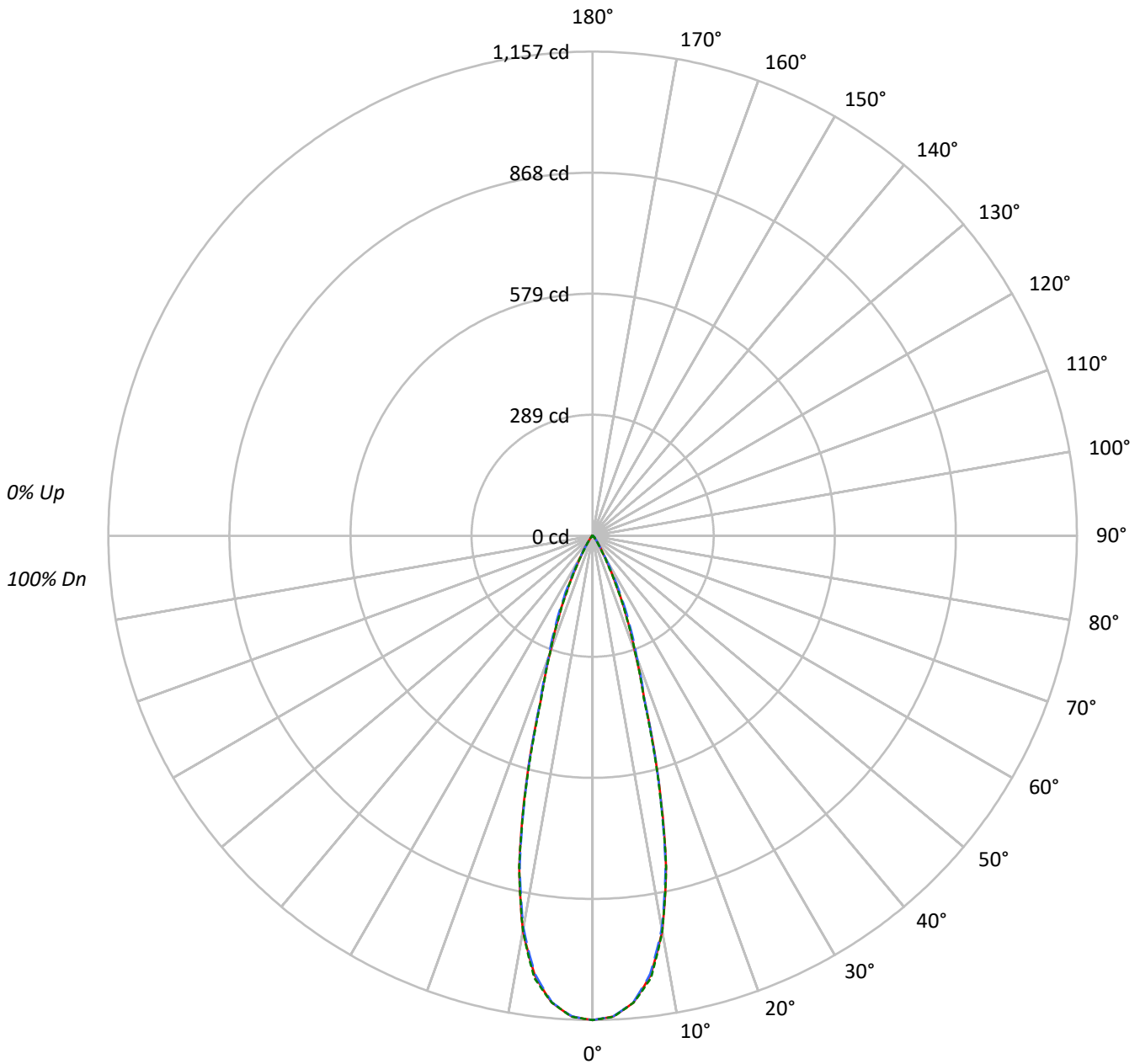
Downlight



TEST NUMBER: P757137

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Luminous Intensity Polar Plot





TEST NUMBER: P757137

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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 | | | | | | 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° | 88591 | 88591 | 88591 |
| 5° | 86041 | 85941 | 86048 |
| 10° | 74522 | 74001 | 74506 |
| 15° | 48624 | 48362 | 48125 |
| 20° | 24176 | 25088 | 24143 |
| 25° | 12179 | 13733 | 11925 |
| 30° | 4879 | 5312 | 4251 |
| 35° | 2261 | 2168 | 1813 |
| 40° | 979 | 1079 | 919 |
| 45° | 693 | 855 | 693 |
| 50° | 238 | 619 | 250 |
| 55° | 133 | 254 | 147 |
| 60° | 92 | 107 | 92 |
| 65° | 54 | 54 | 54 |
| 70° | 45 | 22 | 45 |
| 75° | 0 | 30 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 855 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.8 | 28.3 |
| 10°-20° | 163.9 | 45.5 |
| 20°-30° | 70.8 | 19.7 |
| 30°-40° | 16.1 | 4.5 |
| 40°-50° | 5.5 | 1.5 |
| 50°-60° | 1.4 | 0.4 |
| 60°-70° | 0.3 | 0.1 |
| 70°-80° | 0.0 | 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° | 336.5 | 93.5 |
| 0°-40° | 352.6 | 98.0 |
| 0°-60° | 359.5 | 99.9 |
| 0°-90° | 359.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 359.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1157 | 1157 | 1157 | 1157 | 1157 | |
| 5° | 1120 | 1119 | 1118 | 1121 | 1120 | 102 |
| 15° | 614 | 606 | 610 | 608 | 607 | 164 |
| 25° | 144 | 150 | 163 | 146 | 141 | 69 |
| 35° | 24 | 25 | 23 | 23 | 19 | 16 |
| 45° | 6 | 8 | 8 | 8 | 6 | 5 |
| 55° | 1 | 1 | 2 | 1 | 1 | 1 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 |
| 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° | 1157.4 | 1157.4 | 1157.4 | 1157.4 | 1157.4 |
| 2.5° | 1149.7 | 1148.9 | 1149.3 | 1149.9 | 1150.1 |
| 5° | 1119.8 | 1118.7 | 1118.5 | 1120.9 | 1119.9 |
| 7.5° | 1059.7 | 1058.1 | 1055.8 | 1061.1 | 1066.0 |
| 10° | 958.8 | 957.2 | 952.1 | 954.6 | 958.6 |
| 12.5° | 810.0 | 804.5 | 804.4 | 812.4 | 811.3 |
| 15° | 613.6 | 606.2 | 610.3 | 608.3 | 607.3 |
| 17.5° | 412.6 | 409.8 | 415.3 | 413.6 | 406.5 |
| 20° | 296.8 | 297.6 | 308.0 | 302.7 | 296.4 |
| 22.5° | 216.6 | 219.3 | 231.6 | 218.1 | 213.2 |
| 25° | 144.2 | 149.7 | 162.6 | 145.9 | 141.2 |
| 27.5° | 88.7 | 91.2 | 104.3 | 87.5 | 85.1 |
| 30° | 55.2 | 53.9 | 60.1 | 51.6 | 48.1 |
| 32.5° | 36.2 | 34.6 | 36.6 | 32.8 | 30.0 |
| 35° | 24.2 | 24.7 | 23.2 | 23.0 | 19.4 |
| 37.5° | 15.1 | 17.4 | 15.4 | 16.4 | 12.5 |
| 40° | 9.8 | 12.6 | 10.8 | 12.0 | 9.2 |
| 42.5° | 8.0 | 9.7 | 8.9 | 9.5 | 8.2 |
| 45° | 6.4 | 7.9 | 7.9 | 7.9 | 6.4 |
| 47.5° | 3.5 | 5.3 | 6.8 | 5.4 | 3.7 |
| 50° | 2.0 | 2.7 | 5.2 | 2.8 | 2.1 |
| 52.5° | 1.4 | 1.5 | 3.6 | 1.6 | 1.4 |
| 55° | 1.0 | 1.1 | 1.9 | 1.1 | 1.1 |
| 57.5° | 0.8 | 0.9 | 1.0 | 0.9 | 0.8 |
| 60° | 0.6 | 0.6 | 0.7 | 0.7 | 0.6 |
| 62.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 65° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 67.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 70° | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 |
| 72.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 75° | 0.0 | 0.0 | 0.1 | 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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