

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: P757141

Luminaire Tested: LD6D02D010-EU6DR300210IC9027-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P757141
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-EU6DR300210IC9027-6LBS1LI
Description: 6 INCH ROUND SHALLOW 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: 378.9 lumens
Efficiency: N/A
Efficacy: 74.3 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): 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

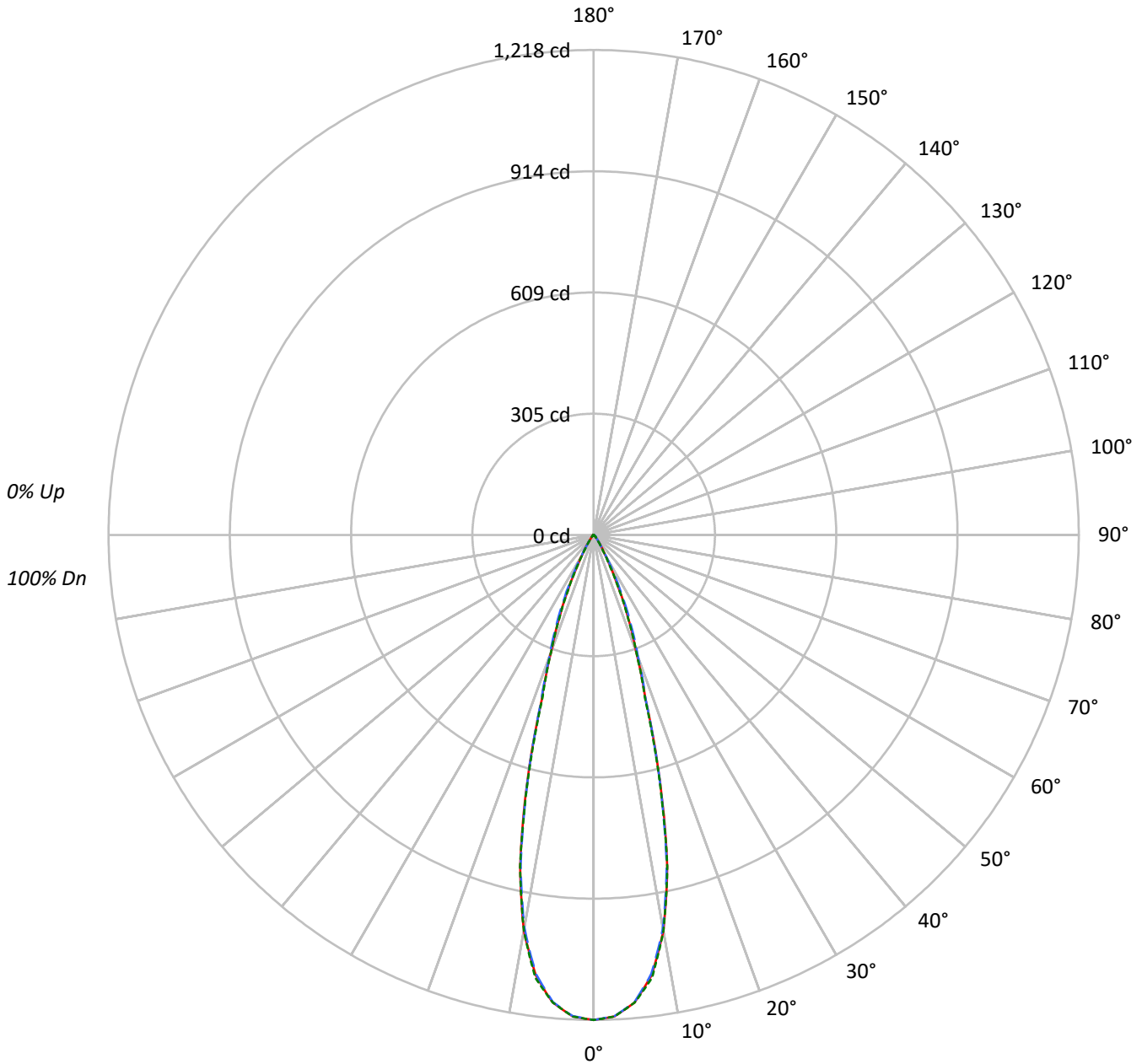


Downlight



TEST NUMBER: P757141
CATALOG NUMBER: LD6D02D010-EU6DR300210IC9027-6LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P757141

CATALOG NUMBER: LD6D02D010-EU6DR300210IC9027-6LBS1LI

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 | 100 | 100 | 100 | 100 | 100 | | |
| | 1 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | 96 | 96 | 96 | 96 | 96 | | |
| | 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | 92 | 92 | 92 | 92 | 92 | | |
| | 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | 89 | 89 | 89 | 89 | 89 | | |
| | 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | 85 | 85 | 85 | 85 | 85 | | |
| | 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 87 | 84 | 88 | 86 | 83 | 82 | 82 | 82 | 82 | 82 | 82 | | |
| | 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | 79 | 79 | 79 | 79 | 79 | | |
| | 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | 77 | 77 | 77 | 77 | 77 | | |
| | 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | 74 | 74 | 74 | 74 | 74 | | |
| | 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | 72 | 72 | 72 | 72 | 72 | | |
| | 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | 69 | 69 | 69 | 69 | 69 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 93253 | 93253 | 93253 |
| 5° | 90574 | 90466 | 90574 |
| 10° | 78447 | 77895 | 78431 |
| 15° | 51183 | 50906 | 50652 |
| 20° | 25447 | 26408 | 25414 |
| 25° | 12820 | 14459 | 12559 |
| 30° | 5135 | 5595 | 4472 |
| 35° | 2383 | 2280 | 1916 |
| 40° | 1029 | 1139 | 969 |
| 45° | 725 | 898 | 736 |
| 50° | 250 | 655 | 262 |
| 55° | 147 | 267 | 147 |
| 60° | 92 | 122 | 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: 898 cd/sqm



TEST NUMBER: P757141

CATALOG NUMBER: LD6D02D010-EU6DR300210IC9027-6LBS1LI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.1 | 28.3 |
| 10°-20° | 172.5 | 45.5 |
| 20°-30° | 74.6 | 19.7 |
| 30°-40° | 17.0 | 4.5 |
| 40°-50° | 5.8 | 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° | 354.2 | 93.5 |
| 0°-40° | 371.2 | 98.0 |
| 0°-60° | 378.5 | 99.9 |
| 0°-90° | 378.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 378.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1218 | 1218 | 1218 | 1218 | 1218 | |
| 5° | 1179 | 1178 | 1177 | 1180 | 1179 | 107 |
| 15° | 646 | 638 | 642 | 640 | 639 | 173 |
| 25° | 152 | 158 | 171 | 154 | 149 | 73 |
| 35° | 26 | 26 | 24 | 24 | 20 | 17 |
| 45° | 7 | 8 | 8 | 8 | 7 | 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 | 0 |



TEST NUMBER: P757141

CATALOG NUMBER: LD6D02D010-EU6DR300210IC9027-6LBS1LI

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1218.3 | 1218.3 | 1218.3 | 1218.3 | 1218.3 |
| 2.5° | 1210.2 | 1209.3 | 1209.8 | 1210.4 | 1210.6 |
| 5° | 1178.8 | 1177.6 | 1177.4 | 1179.8 | 1178.8 |
| 7.5° | 1115.4 | 1113.8 | 1111.4 | 1116.9 | 1122.1 |
| 10° | 1009.3 | 1007.5 | 1002.2 | 1004.8 | 1009.1 |
| 12.5° | 852.7 | 846.9 | 846.8 | 855.1 | 854.0 |
| 15° | 645.9 | 638.2 | 642.4 | 640.3 | 639.2 |
| 17.5° | 434.4 | 431.4 | 437.1 | 435.4 | 427.9 |
| 20° | 312.4 | 313.2 | 324.2 | 318.7 | 312.0 |
| 22.5° | 228.0 | 230.8 | 243.8 | 229.6 | 224.4 |
| 25° | 151.8 | 157.6 | 171.2 | 153.6 | 148.7 |
| 27.5° | 93.4 | 96.0 | 109.8 | 92.2 | 89.6 |
| 30° | 58.1 | 56.8 | 63.3 | 54.3 | 50.6 |
| 32.5° | 38.1 | 36.4 | 38.5 | 34.5 | 31.6 |
| 35° | 25.5 | 26.0 | 24.4 | 24.2 | 20.5 |
| 37.5° | 15.9 | 18.3 | 16.2 | 17.2 | 13.2 |
| 40° | 10.3 | 13.3 | 11.4 | 12.6 | 9.7 |
| 42.5° | 8.4 | 10.3 | 9.4 | 10.0 | 8.6 |
| 45° | 6.7 | 8.3 | 8.3 | 8.3 | 6.8 |
| 47.5° | 3.7 | 5.6 | 7.1 | 5.7 | 4.0 |
| 50° | 2.1 | 2.8 | 5.5 | 2.9 | 2.2 |
| 52.5° | 1.4 | 1.6 | 3.8 | 1.7 | 1.5 |
| 55° | 1.1 | 1.1 | 2.0 | 1.2 | 1.1 |
| 57.5° | 0.9 | 0.9 | 1.1 | 0.9 | 0.9 |
| 60° | 0.6 | 0.6 | 0.8 | 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

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

Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)