

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: P740104

Luminaire Tested: LD4D05D010-EU4DR300210IC9030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P740104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D05D010-EU4DR300210IC9030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 685.8 lumens
Efficiency: N/A
Efficacy: 91.4 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): 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

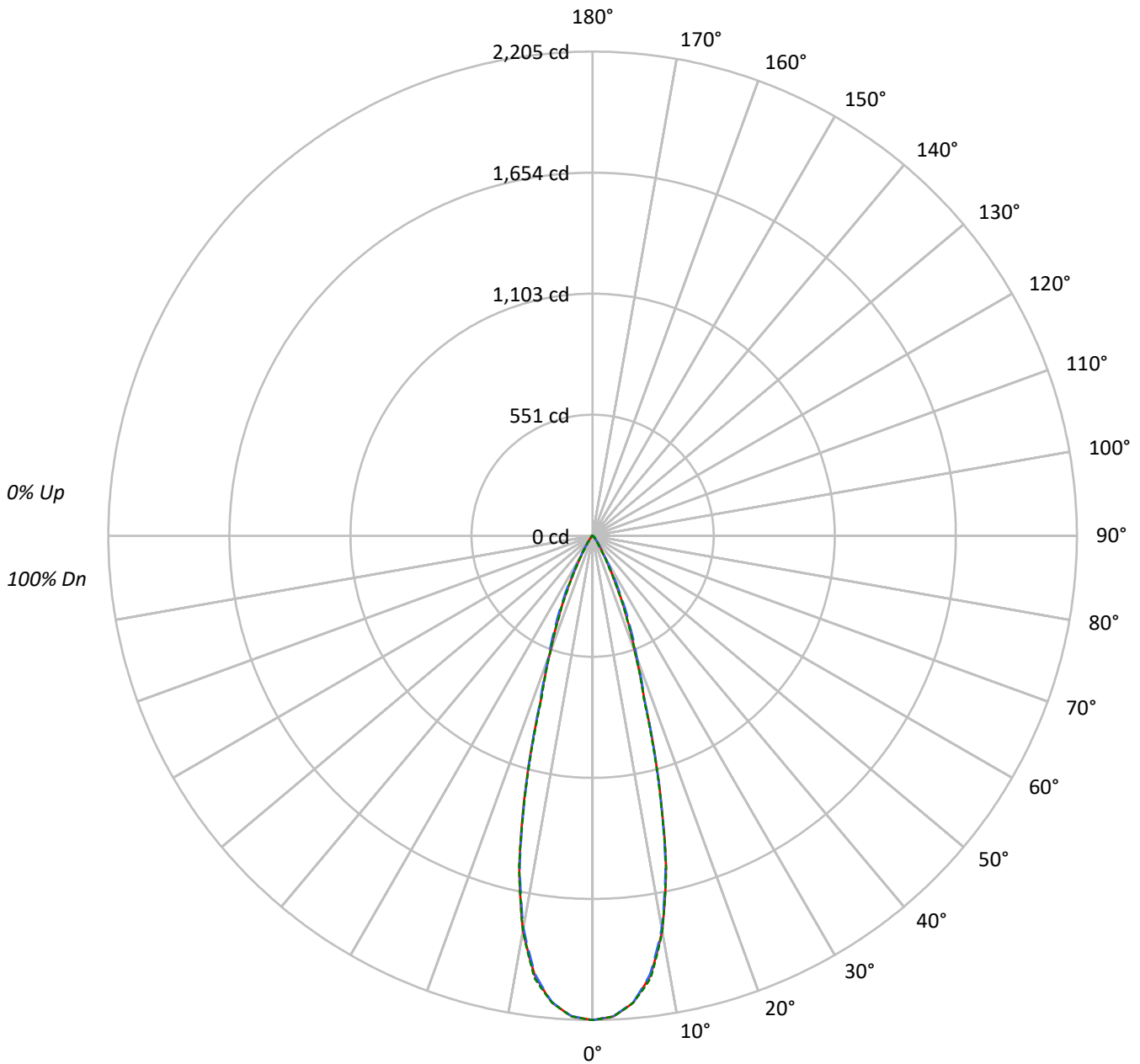


Downlight



TEST NUMBER: P740104
CATALOG NUMBER: LD4D05D010-EU4DR300210IC9030-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P740104

CATALOG NUMBER: LD4D05D010-EU4DR300210IC9030-4LBS1LI

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° | 168793 | 168793 | 168793 |
| 5° | 163945 | 163760 | 163952 |
| 10° | 142002 | 140999 | 141971 |
| 15° | 92652 | 92152 | 91693 |
| 20° | 46071 | 47798 | 46006 |
| 25° | 23209 | 26173 | 22736 |
| 30° | 9289 | 10120 | 8096 |
| 35° | 4308 | 4130 | 3457 |
| 40° | 1859 | 2068 | 1749 |
| 45° | 1310 | 1635 | 1331 |
| 50° | 453 | 1191 | 476 |
| 55° | 254 | 494 | 280 |
| 60° | 184 | 214 | 184 |
| 65° | 109 | 109 | 109 |
| 70° | 67 | 45 | 67 |
| 75° | 0 | 30 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1635 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 193.9 | 28.3 |
| 10°-20° | 312.3 | 45.5 |
| 20°-30° | 135.0 | 19.7 |
| 30°-40° | 30.8 | 4.5 |
| 40°-50° | 10.6 | 1.5 |
| 50°-60° | 2.6 | 0.4 |
| 60°-70° | 0.7 | 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° | 641.2 | 93.5 |
| 0°-40° | 671.9 | 98.0 |
| 0°-60° | 685.1 | 99.9 |
| 0°-90° | 685.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 685.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2205 | 2205 | 2205 | 2205 | 2205 | |
| 5° | 2134 | 2132 | 2131 | 2136 | 2134 | 194 |
| 15° | 1169 | 1155 | 1163 | 1159 | 1157 | 313 |
| 25° | 275 | 285 | 310 | 278 | 269 | 132 |
| 35° | 46 | 47 | 44 | 44 | 37 | 31 |
| 45° | 12 | 15 | 15 | 15 | 12 | 9 |
| 55° | 2 | 2 | 4 | 2 | 2 | 2 |
| 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 | 0 |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2205.2 | 2205.2 | 2205.2 | 2205.2 | 2205.2 |
| 2.5° | 2190.6 | 2189.1 | 2189.9 | 2191.0 | 2191.4 |
| 5° | 2133.7 | 2131.7 | 2131.3 | 2135.7 | 2133.8 |
| 7.5° | 2019.1 | 2016.2 | 2011.7 | 2021.8 | 2031.2 |
| 10° | 1827.0 | 1823.8 | 1814.1 | 1818.9 | 1826.6 |
| 12.5° | 1543.5 | 1533.0 | 1532.8 | 1547.9 | 1545.8 |
| 15° | 1169.2 | 1155.1 | 1162.9 | 1159.1 | 1157.1 |
| 17.5° | 786.3 | 780.8 | 791.2 | 788.1 | 774.6 |
| 20° | 565.6 | 567.0 | 586.8 | 576.8 | 564.8 |
| 22.5° | 412.7 | 417.8 | 441.3 | 415.6 | 406.2 |
| 25° | 274.8 | 285.2 | 309.9 | 277.9 | 269.2 |
| 27.5° | 169.0 | 173.8 | 198.8 | 166.8 | 162.1 |
| 30° | 105.1 | 102.7 | 114.5 | 98.3 | 91.6 |
| 32.5° | 69.0 | 65.9 | 69.7 | 62.6 | 57.2 |
| 35° | 46.1 | 47.1 | 44.2 | 43.8 | 37.0 |
| 37.5° | 28.8 | 33.1 | 29.2 | 31.2 | 23.8 |
| 40° | 18.6 | 24.1 | 20.7 | 22.9 | 17.5 |
| 42.5° | 15.2 | 18.5 | 17.0 | 18.1 | 15.6 |
| 45° | 12.1 | 15.1 | 15.1 | 15.1 | 12.3 |
| 47.5° | 6.7 | 10.1 | 12.9 | 10.3 | 7.2 |
| 50° | 3.8 | 5.1 | 10.0 | 5.3 | 4.0 |
| 52.5° | 2.6 | 2.9 | 6.8 | 3.0 | 2.7 |
| 55° | 1.9 | 2.1 | 3.7 | 2.2 | 2.1 |
| 57.5° | 1.5 | 1.6 | 1.9 | 1.6 | 1.5 |
| 60° | 1.2 | 1.2 | 1.4 | 1.3 | 1.2 |
| 62.5° | 0.9 | 0.9 | 1.0 | 0.9 | 0.9 |
| 65° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 67.5° | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 |
| 70° | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 |
| 72.5° | 0.2 | 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 |

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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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