

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: P741100

Luminaire Tested: LD4D08D010-EU4DR300210IC9027-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P741100
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: LD4D08D010-EU4DR300210IC9027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 707.0 lumens
Efficiency: N/A
Efficacy: 79.4 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): 8.9
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



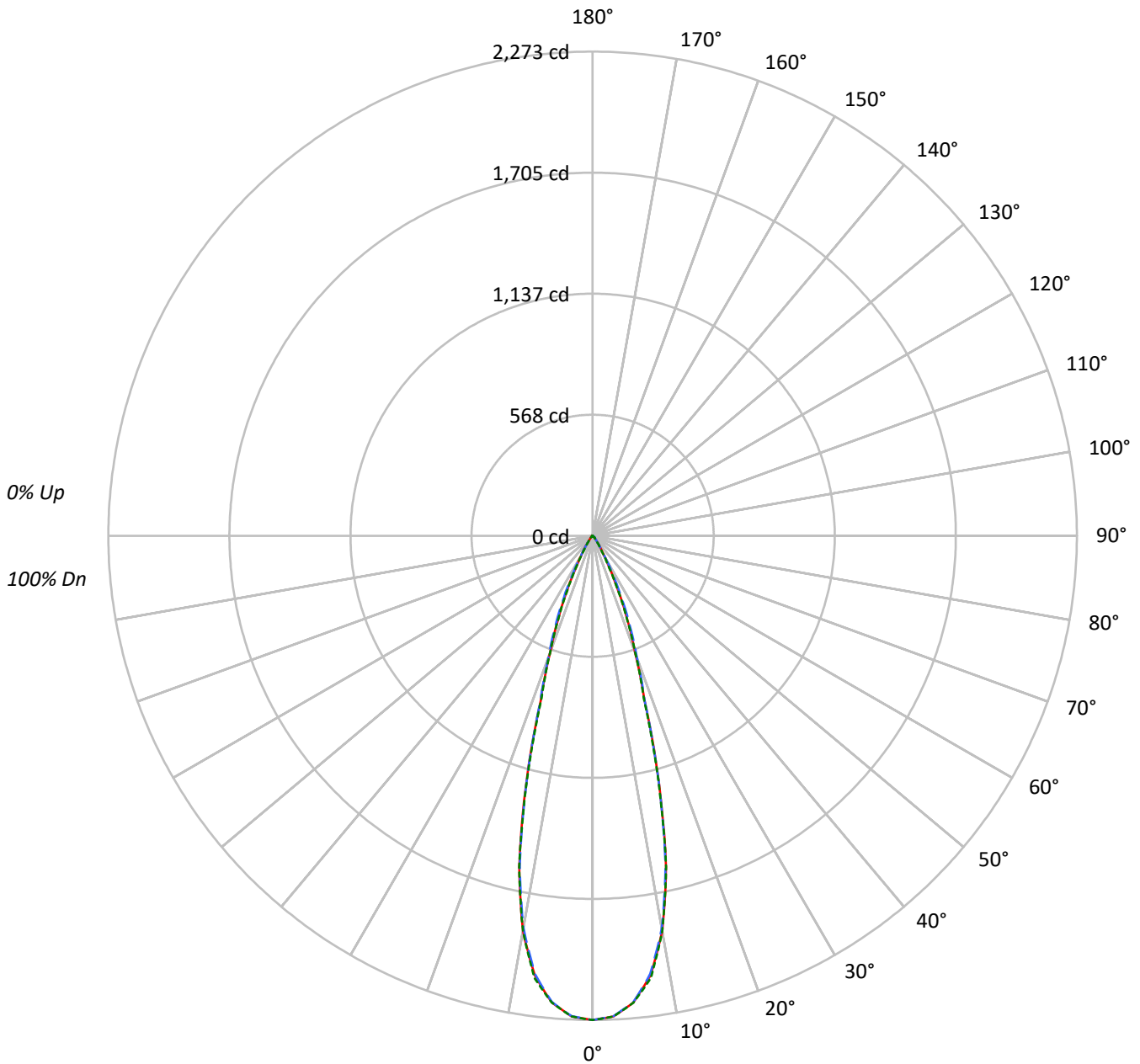
Downlight



TEST NUMBER: P741100

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9027-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P741100

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9027-4LBDP1H

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 | 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° | 173998 | 173998 | 173998 |
| 5° | 169008 | 168808 | 169016 |
| 10° | 146386 | 145352 | 146347 |
| 15° | 95512 | 94997 | 94522 |
| 20° | 47489 | 49273 | 47432 |
| 25° | 23926 | 26975 | 23437 |
| 30° | 9572 | 10438 | 8344 |
| 35° | 4448 | 4252 | 3569 |
| 40° | 1918 | 2128 | 1809 |
| 45° | 1353 | 1678 | 1364 |
| 50° | 464 | 1227 | 488 |
| 55° | 267 | 507 | 280 |
| 60° | 184 | 214 | 184 |
| 65° | 127 | 127 | 127 |
| 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: 1678 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 199.9 | 28.3 |
| 10°-20° | 321.9 | 45.5 |
| 20°-30° | 139.1 | 19.7 |
| 30°-40° | 31.7 | 4.5 |
| 40°-50° | 10.9 | 1.5 |
| 50°-60° | 2.7 | 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° | 661.0 | 93.5 |
| 0°-40° | 692.7 | 98.0 |
| 0°-60° | 706.2 | 99.9 |
| 0°-90° | 707.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 707.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2273 | 2273 | 2273 | 2273 | 2273 | |
| 5° | 2200 | 2198 | 2197 | 2202 | 2200 | 200 |
| 15° | 1205 | 1191 | 1199 | 1195 | 1193 | 323 |
| 25° | 283 | 294 | 319 | 286 | 278 | 136 |
| 35° | 48 | 48 | 46 | 45 | 38 | 32 |
| 45° | 12 | 16 | 16 | 16 | 13 | 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 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2273.2 | 2273.2 | 2273.2 | 2273.2 | 2273.2 |
| 2.5° | 2258.2 | 2256.6 | 2257.5 | 2258.6 | 2259.1 |
| 5° | 2199.6 | 2197.5 | 2197.0 | 2201.6 | 2199.7 |
| 7.5° | 2081.4 | 2078.4 | 2073.8 | 2084.2 | 2093.9 |
| 10° | 1883.4 | 1880.1 | 1870.1 | 1875.0 | 1882.9 |
| 12.5° | 1591.1 | 1580.3 | 1580.0 | 1595.7 | 1593.5 |
| 15° | 1205.3 | 1190.8 | 1198.8 | 1194.9 | 1192.8 |
| 17.5° | 810.5 | 804.9 | 815.7 | 812.4 | 798.5 |
| 20° | 583.0 | 584.5 | 604.9 | 594.7 | 582.3 |
| 22.5° | 425.5 | 430.7 | 454.9 | 428.5 | 418.8 |
| 25° | 283.3 | 294.0 | 319.4 | 286.5 | 277.5 |
| 27.5° | 174.2 | 179.1 | 204.9 | 172.0 | 167.1 |
| 30° | 108.3 | 105.9 | 118.1 | 101.4 | 94.4 |
| 32.5° | 71.1 | 68.0 | 71.8 | 64.5 | 59.0 |
| 35° | 47.6 | 48.5 | 45.5 | 45.2 | 38.2 |
| 37.5° | 29.7 | 34.1 | 30.1 | 32.1 | 24.6 |
| 40° | 19.2 | 24.8 | 21.3 | 23.5 | 18.1 |
| 42.5° | 15.8 | 19.1 | 17.5 | 18.6 | 16.1 |
| 45° | 12.5 | 15.5 | 15.5 | 15.5 | 12.6 |
| 47.5° | 6.9 | 10.4 | 13.3 | 10.6 | 7.4 |
| 50° | 3.9 | 5.3 | 10.3 | 5.4 | 4.1 |
| 52.5° | 2.7 | 3.0 | 7.0 | 3.2 | 2.8 |
| 55° | 2.0 | 2.1 | 3.8 | 2.2 | 2.1 |
| 57.5° | 1.5 | 1.7 | 2.0 | 1.7 | 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° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 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 |

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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