

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: P777681

Luminaire Tested: LERS4D08D010-EC4DR300210IC9027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777681
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: LERS4D08D010-EC4DR300210IC9027-4LBS1H
Description: 4 INCH ROUND SHALLOW 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: 744.2 lumens
Efficiency: N/A
Efficacy: 83.6 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): 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



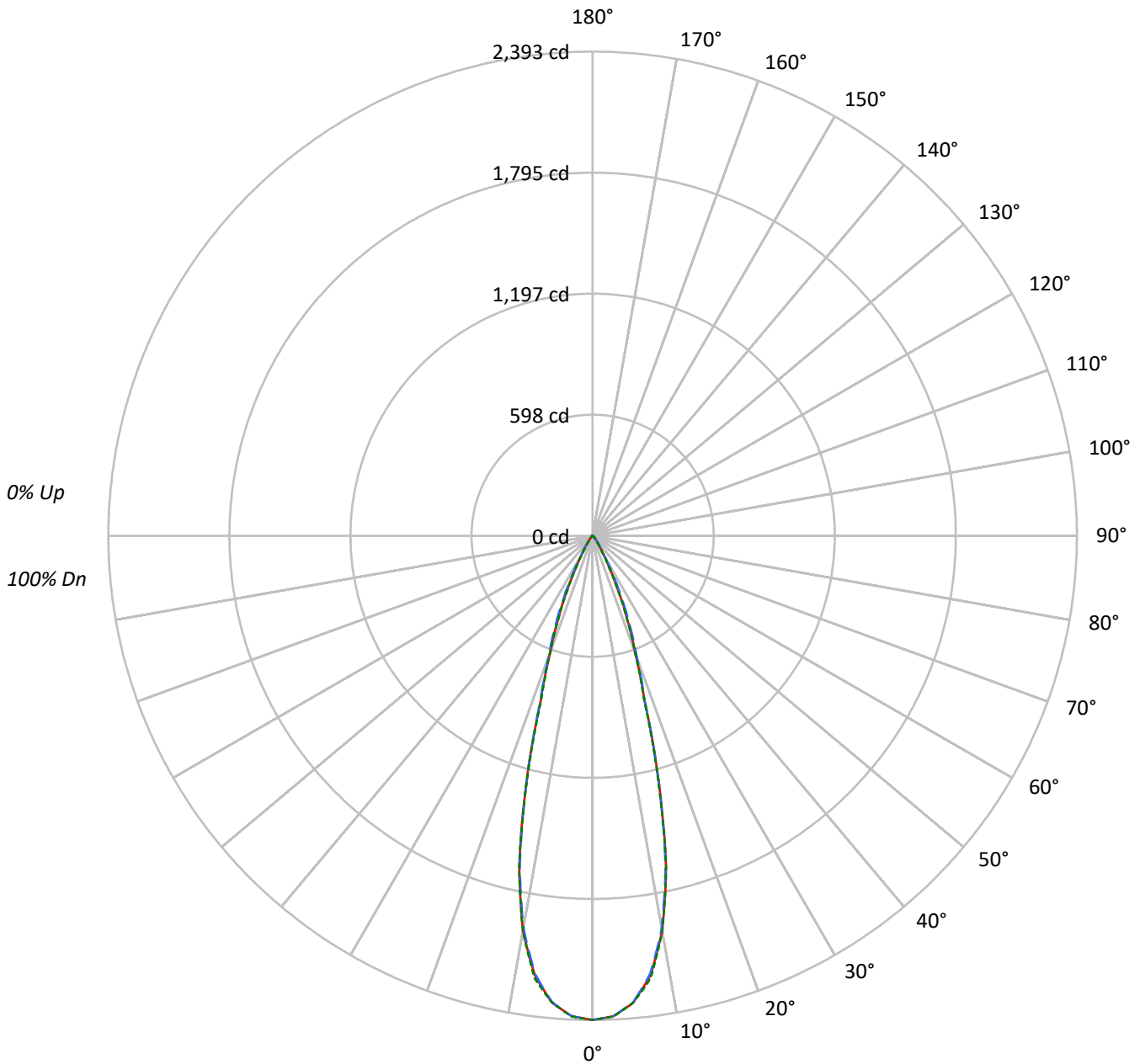
Downlight



TEST NUMBER: P777681

CATALOG NUMBER: LERS4D08D010-EC4DR300210IC9027-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P777681

CATALOG NUMBER: LERS4D08D010-EC4DR300210IC9027-4LBS1H

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 | 87 | 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° | 183161 | 183161 | 183161 |
| 5° | 177906 | 177698 | 177913 |
| 10° | 154088 | 153000 | 154057 |
| 15° | 100536 | 99997 | 99498 |
| 20° | 49989 | 51871 | 49924 |
| 25° | 25185 | 28403 | 24670 |
| 30° | 10085 | 10986 | 8785 |
| 35° | 4681 | 4485 | 3756 |
| 40° | 2018 | 2248 | 1898 |
| 45° | 1429 | 1764 | 1440 |
| 50° | 488 | 1286 | 524 |
| 55° | 280 | 534 | 294 |
| 60° | 199 | 230 | 199 |
| 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: 1764 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 210.4 | 28.3 |
| 10°-20° | 338.9 | 45.5 |
| 20°-30° | 146.4 | 19.7 |
| 30°-40° | 33.4 | 4.5 |
| 40°-50° | 11.5 | 1.5 |
| 50°-60° | 2.8 | 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° | 695.8 | 93.5 |
| 0°-40° | 729.1 | 98.0 |
| 0°-60° | 743.4 | 99.9 |
| 0°-90° | 744.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 744.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2393 | 2393 | 2393 | 2393 | 2393 | |
| 5° | 2315 | 2313 | 2313 | 2318 | 2316 | 211 |
| 15° | 1269 | 1253 | 1262 | 1258 | 1256 | 340 |
| 25° | 298 | 310 | 336 | 302 | 292 | 143 |
| 35° | 50 | 51 | 48 | 48 | 40 | 34 |
| 45° | 13 | 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° | 2392.9 | 2392.9 | 2392.9 | 2392.9 | 2392.9 |
| 2.5° | 2377.1 | 2375.4 | 2376.3 | 2377.5 | 2378.0 |
| 5° | 2315.4 | 2313.1 | 2312.7 | 2317.5 | 2315.5 |
| 7.5° | 2191.0 | 2187.8 | 2182.9 | 2193.9 | 2204.1 |
| 10° | 1982.5 | 1979.0 | 1968.5 | 1973.7 | 1982.1 |
| 12.5° | 1674.8 | 1663.4 | 1663.2 | 1679.7 | 1677.4 |
| 15° | 1268.7 | 1253.4 | 1261.9 | 1257.8 | 1255.6 |
| 17.5° | 853.2 | 847.3 | 858.6 | 855.2 | 840.5 |
| 20° | 613.7 | 615.2 | 636.8 | 625.9 | 612.9 |
| 22.5° | 447.8 | 453.4 | 478.9 | 451.0 | 440.8 |
| 25° | 298.2 | 309.5 | 336.3 | 301.6 | 292.1 |
| 27.5° | 183.4 | 188.6 | 215.7 | 181.1 | 175.9 |
| 30° | 114.1 | 111.5 | 124.3 | 106.7 | 99.4 |
| 32.5° | 74.8 | 71.6 | 75.7 | 67.9 | 62.1 |
| 35° | 50.1 | 51.1 | 48.0 | 47.6 | 40.2 |
| 37.5° | 31.2 | 35.9 | 31.7 | 33.9 | 25.8 |
| 40° | 20.2 | 26.1 | 22.5 | 24.8 | 19.0 |
| 42.5° | 16.6 | 20.1 | 18.4 | 19.6 | 16.9 |
| 45° | 13.2 | 16.3 | 16.3 | 16.3 | 13.3 |
| 47.5° | 7.3 | 10.9 | 14.0 | 11.2 | 7.7 |
| 50° | 4.1 | 5.5 | 10.8 | 5.7 | 4.4 |
| 52.5° | 2.8 | 3.2 | 7.4 | 3.3 | 2.9 |
| 55° | 2.1 | 2.2 | 4.0 | 2.3 | 2.2 |
| 57.5° | 1.7 | 1.8 | 2.1 | 1.8 | 1.7 |
| 60° | 1.3 | 1.3 | 1.5 | 1.4 | 1.3 |
| 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 |

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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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