

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: P778238

Luminaire Tested: LERS4D15D010-EC4DR1515309030-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D15D010-EC4DR1515309030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1499.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V): NR
Input Current (Ain): 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

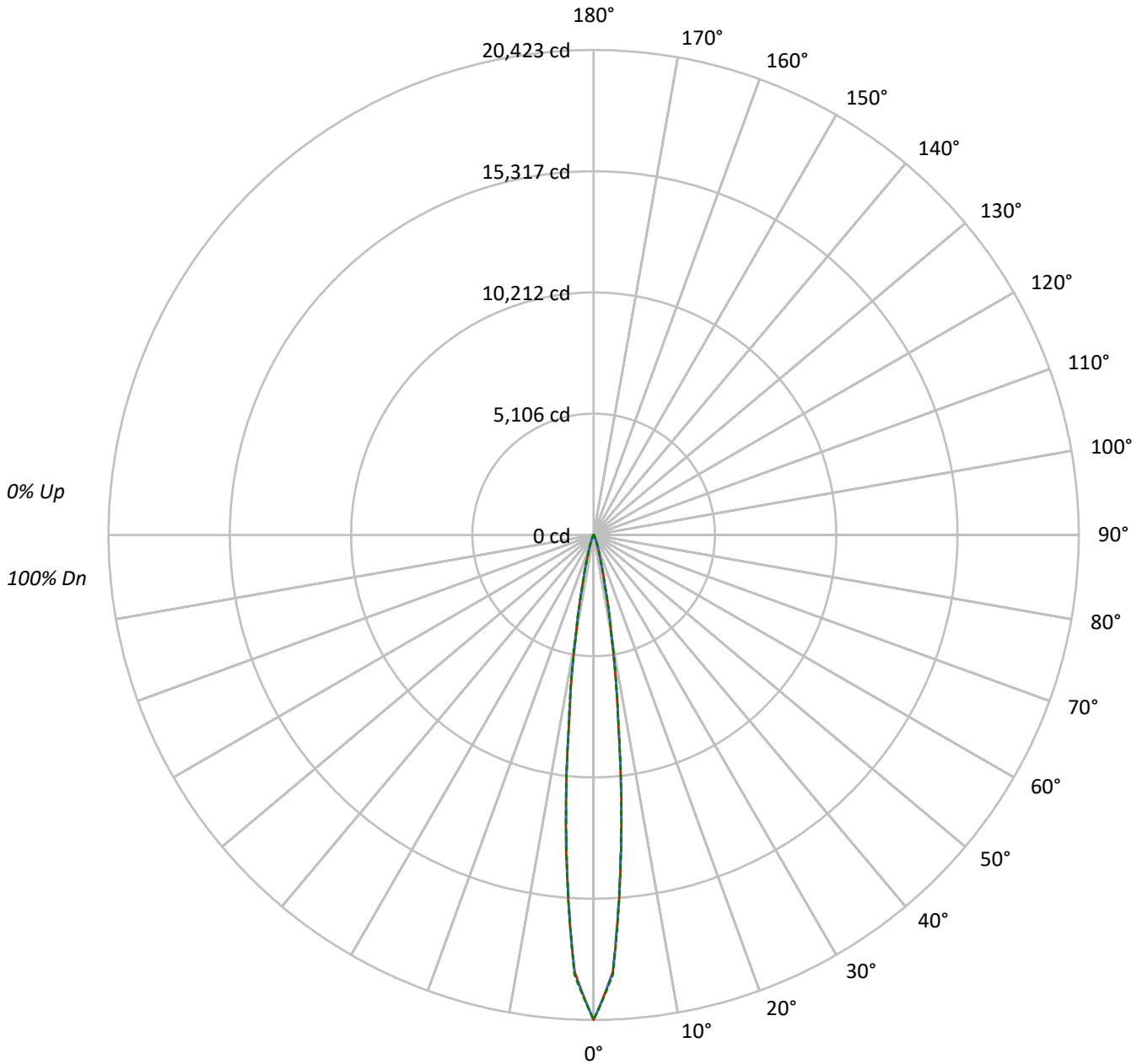


Downlight



TEST NUMBER: P778238
CATALOG NUMBER: LERS4D15D010-EC4DR1515309030-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P778238

CATALOG NUMBER: LERS4D15D010-EC4DR1515309030-4LBS1LI

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 | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 103 | 101 | 100 | 100 | 98 | | | | | | 98 | | | | | | | | | | | | | |
| 2 | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 | 102 | 101 | 100 | 100 | 98 | 98 | 96 | | | | | | 96 | | | | | | | | | | | | | |
| 3 | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99 | 100 | 99 | 97 | 98 | 97 | 96 | 94 | | | | | | 94 | | | | | | | | | | | | | |
| 4 | 108 | 103 | 100 | 98 | 106 | 102 | 99 | 97 | 100 | 98 | 96 | 99 | 97 | 95 | 97 | 95 | 94 | 93 | | | | | | 93 | | | | | | | | | | | | | |
| 5 | 106 | 101 | 98 | 95 | 104 | 100 | 97 | 95 | 98 | 96 | 94 | 97 | 95 | 93 | 96 | 94 | 92 | 92 | | | | | | 92 | | | | | | | | | | | | | |
| 6 | 104 | 99 | 95 | 93 | 102 | 98 | 95 | 93 | 97 | 94 | 92 | 96 | 93 | 92 | 95 | 93 | 91 | 90 | | | | | | 90 | | | | | | | | | | | | | |
| 7 | 102 | 97 | 94 | 91 | 101 | 96 | 93 | 91 | 95 | 93 | 91 | 94 | 92 | 90 | 93 | 91 | 90 | 89 | | | | | | 89 | | | | | | | | | | | | | |
| 8 | 100 | 95 | 92 | 90 | 99 | 95 | 92 | 90 | 94 | 91 | 89 | 93 | 91 | 89 | 92 | 90 | 89 | 88 | | | | | | 88 | | | | | | | | | | | | | |
| 9 | 99 | 93 | 90 | 88 | 98 | 93 | 90 | 88 | 92 | 90 | 88 | 92 | 89 | 88 | 91 | 89 | 88 | 87 | | | | | | 87 | | | | | | | | | | | | | |
| 10 | 97 | 92 | 89 | 87 | 96 | 92 | 89 | 87 | 91 | 89 | 87 | 91 | 88 | 87 | 90 | 88 | 86 | 86 | | | | | | 86 | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 2298040 | 2298040 | 2298040 |
| 5° | 1350435 | 1332944 | 1343493 |
| 10° | 403042 | 405869 | 412074 |
| 15° | 100250 | 102204 | 99052 |
| 20° | 29996 | 34734 | 30634 |
| 25° | 10571 | 13469 | 10711 |
| 30° | 3886 | 5114 | 3946 |
| 35° | 1946 | 2200 | 1881 |
| 40° | 1229 | 1349 | 1229 |
| 45° | 910 | 966 | 910 |
| 50° | 723 | 723 | 723 |
| 55° | 599 | 599 | 599 |
| 60° | 484 | 484 | 484 |
| 65° | 371 | 371 | 371 |
| 70° | 314 | 314 | 314 |
| 75° | 197 | 197 | 265 |
| 80° | 134 | 134 | 134 |
| 85° | 75 | 75 | 75 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 966 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 972.2 | 64.9 |
| 10°-20° | 399.9 | 26.7 |
| 20°-30° | 79.4 | 5.3 |
| 30°-40° | 19.8 | 1.3 |
| 40°-50° | 10.4 | 0.7 |
| 50°-60° | 7.7 | 0.5 |
| 60°-70° | 5.5 | 0.4 |
| 70°-80° | 3.1 | 0.2 |
| 80°-90° | 0.9 | 0.1 |
| 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° | 1451.5 | 96.8 |
| 0°-40° | 1471.3 | 98.2 |
| 0°-60° | 1489.5 | 99.4 |
| 0°-90° | 1499.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1499.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 20423 | 20423 | 20423 | 20423 | 20423 | |
| 5° | 13288 | 13151 | 13116 | 13207 | 13220 | 970 |
| 15° | 1154 | 1176 | 1177 | 1156 | 1140 | 396 |
| 25° | 136 | 154 | 173 | 153 | 138 | 71 |
| 35° | 27 | 28 | 30 | 28 | 26 | 18 |
| 45° | 13 | 13 | 14 | 13 | 13 | 10 |
| 55° | 9 | 9 | 9 | 9 | 9 | 8 |
| 65° | 5 | 5 | 5 | 5 | 5 | 5 |
| 75° | 3 | 3 | 3 | 3 | 4 | 3 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 20423.4 | 20423.4 | 20423.4 | 20423.4 | 20423.4 |
| 2.5° | 18422.7 | 18438.3 | 18444.3 | 18462.5 | 18529.9 |
| 5° | 13287.9 | 13151.3 | 13115.8 | 13206.6 | 13219.6 |
| 7.5° | 7871.2 | 7898.9 | 8000.1 | 8022.5 | 7941.3 |
| 10° | 4319.5 | 4354.9 | 4349.8 | 4380.9 | 4416.3 |
| 12.5° | 2209.0 | 2181.4 | 2172.7 | 2208.2 | 2158.9 |
| 15° | 1154.2 | 1175.8 | 1176.7 | 1156.0 | 1140.4 |
| 17.5° | 620.8 | 645.8 | 687.3 | 653.6 | 601.8 |
| 20° | 366.6 | 389.1 | 424.5 | 396.8 | 374.4 |
| 22.5° | 226.5 | 244.7 | 269.8 | 248.1 | 230.0 |
| 25° | 135.7 | 153.9 | 172.9 | 153.0 | 137.5 |
| 27.5° | 80.4 | 96.0 | 108.1 | 95.1 | 79.5 |
| 30° | 51.9 | 60.5 | 68.3 | 59.7 | 52.7 |
| 32.5° | 36.3 | 39.8 | 43.2 | 39.8 | 36.3 |
| 35° | 26.8 | 28.5 | 30.3 | 28.5 | 25.9 |
| 37.5° | 20.8 | 22.5 | 23.3 | 21.6 | 19.9 |
| 40° | 17.3 | 18.2 | 19.0 | 18.2 | 17.3 |
| 42.5° | 14.7 | 15.6 | 15.6 | 15.6 | 14.7 |
| 45° | 13.0 | 13.0 | 13.8 | 13.0 | 13.0 |
| 47.5° | 11.2 | 11.2 | 12.1 | 11.2 | 11.2 |
| 50° | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| 52.5° | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| 55° | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 |
| 57.5° | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 |
| 60° | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 |
| 62.5° | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 65° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 67.5° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 70° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 72.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 75° | 2.6 | 2.6 | 2.6 | 2.6 | 3.5 |
| 77.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 80° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 82.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 85° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 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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