

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: P745742

Luminaire Tested: LD4D30D010-EU4DR1515309024-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745742
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: LD4D30D010-EU4DR1515309024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2039.6 lumens
Efficiency: N/A
Efficacy: 70.3 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): 29
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



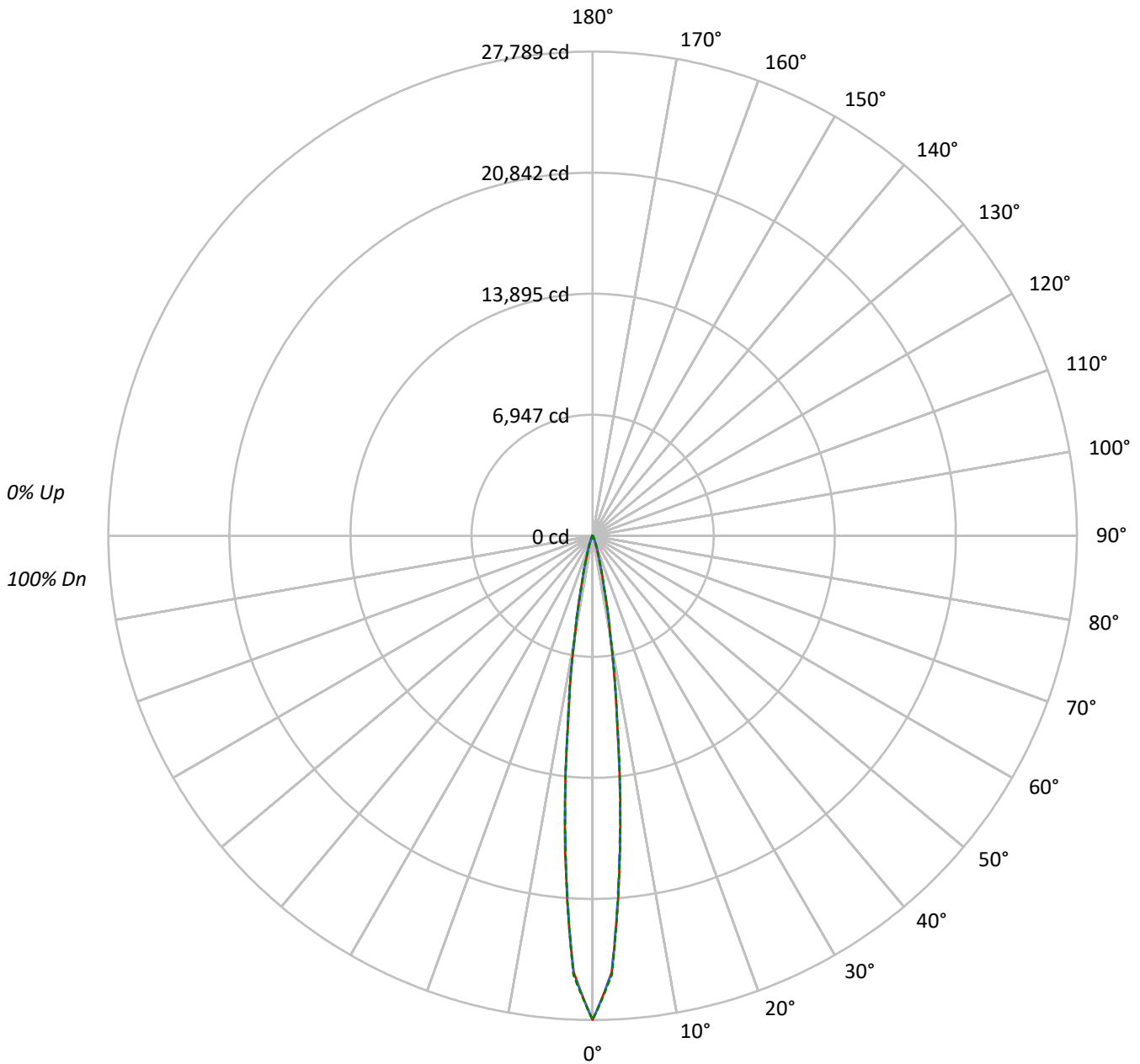
Downlight



TEST NUMBER: P745742

CATALOG NUMBER: LD4D30D010-EU4DR1515309024-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P745742

CATALOG NUMBER: LD4D30D010-EU4DR1515309024-4LBSQW1B

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° | 3126839 | 3126839 | 3126839 |
| 5° | 1837481 | 1813690 | 1828040 |
| 10° | 548406 | 552241 | 560695 |
| 15° | 136409 | 139066 | 134776 |
| 20° | 40813 | 47261 | 41681 |
| 25° | 14388 | 18330 | 14567 |
| 30° | 5287 | 6956 | 5376 |
| 35° | 2651 | 2992 | 2563 |
| 40° | 1669 | 1839 | 1669 |
| 45° | 1232 | 1316 | 1232 |
| 50° | 980 | 980 | 980 |
| 55° | 821 | 821 | 821 |
| 60° | 660 | 660 | 660 |
| 65° | 507 | 507 | 507 |
| 70° | 432 | 432 | 432 |
| 75° | 265 | 265 | 355 |
| 80° | 189 | 189 | 189 |
| 85° | 100 | 100 | 100 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1316 cd/sqm



TEST NUMBER: P745742

CATALOG NUMBER: LD4D30D010-EU4DR1515309024-4LBSQW1B

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1322.8 | 64.9 |
| 10°-20° | 544.1 | 26.7 |
| 20°-30° | 108.1 | 5.3 |
| 30°-40° | 27.0 | 1.3 |
| 40°-50° | 14.2 | 0.7 |
| 50°-60° | 10.5 | 0.5 |
| 60°-70° | 7.4 | 0.4 |
| 70°-80° | 4.2 | 0.2 |
| 80°-90° | 1.3 | 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° | 1975.0 | 96.8 |
| 0°-40° | 2002.0 | 98.2 |
| 0°-60° | 2026.7 | 99.4 |
| 0°-90° | 2039.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2039.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 27789 | 27789 | 27789 | 27789 | 27789 | |
| 5° | 18080 | 17894 | 17846 | 17970 | 17987 | 1320 |
| 15° | 1570 | 1600 | 1601 | 1573 | 1552 | 538 |
| 25° | 185 | 209 | 235 | 208 | 187 | 97 |
| 35° | 36 | 39 | 41 | 39 | 35 | 25 |
| 45° | 18 | 18 | 19 | 18 | 18 | 14 |
| 55° | 12 | 12 | 12 | 12 | 12 | 11 |
| 65° | 7 | 7 | 7 | 7 | 7 | 7 |
| 75° | 4 | 4 | 4 | 4 | 5 | 4 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P745742

CATALOG NUMBER: LD4D30D010-EU4DR1515309024-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 27789.2 | 27789.2 | 27789.2 | 27789.2 | 27789.2 |
| 2.5° | 25067.0 | 25088.2 | 25096.4 | 25121.1 | 25212.9 |
| 5° | 18080.3 | 17894.4 | 17846.2 | 17969.7 | 17987.4 |
| 7.5° | 10710.1 | 10747.7 | 10885.4 | 10915.9 | 10805.4 |
| 10° | 5877.4 | 5925.6 | 5918.5 | 5960.9 | 6009.1 |
| 12.5° | 3005.7 | 2968.1 | 2956.3 | 3004.6 | 2937.5 |
| 15° | 1570.5 | 1599.9 | 1601.1 | 1572.9 | 1551.7 |
| 17.5° | 844.7 | 878.8 | 935.2 | 889.4 | 818.8 |
| 20° | 498.8 | 529.4 | 577.6 | 540.0 | 509.4 |
| 22.5° | 308.2 | 332.9 | 367.0 | 337.6 | 312.9 |
| 25° | 184.7 | 209.4 | 235.3 | 208.2 | 187.0 |
| 27.5° | 109.4 | 130.6 | 147.1 | 129.4 | 108.2 |
| 30° | 70.6 | 82.3 | 92.9 | 81.2 | 71.8 |
| 32.5° | 49.4 | 54.1 | 58.8 | 54.1 | 49.4 |
| 35° | 36.5 | 38.8 | 41.2 | 38.8 | 35.3 |
| 37.5° | 28.2 | 30.6 | 31.8 | 29.4 | 27.1 |
| 40° | 23.5 | 24.7 | 25.9 | 24.7 | 23.5 |
| 42.5° | 20.0 | 21.2 | 21.2 | 21.2 | 20.0 |
| 45° | 17.6 | 17.6 | 18.8 | 17.6 | 17.6 |
| 47.5° | 15.3 | 15.3 | 16.5 | 15.3 | 15.3 |
| 50° | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 |
| 52.5° | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 |
| 55° | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 57.5° | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| 60° | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 |
| 62.5° | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| 65° | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| 67.5° | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| 70° | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| 72.5° | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| 75° | 3.5 | 3.5 | 3.5 | 3.5 | 4.7 |
| 77.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 80° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 82.5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 85° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 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)