

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: P745807

Luminaire Tested: LD4D30D010-EU4DR1515309050-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745807
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-EU4DR1515309050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2506.3 lumens
Efficiency: N/A
Efficacy: 86.4 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



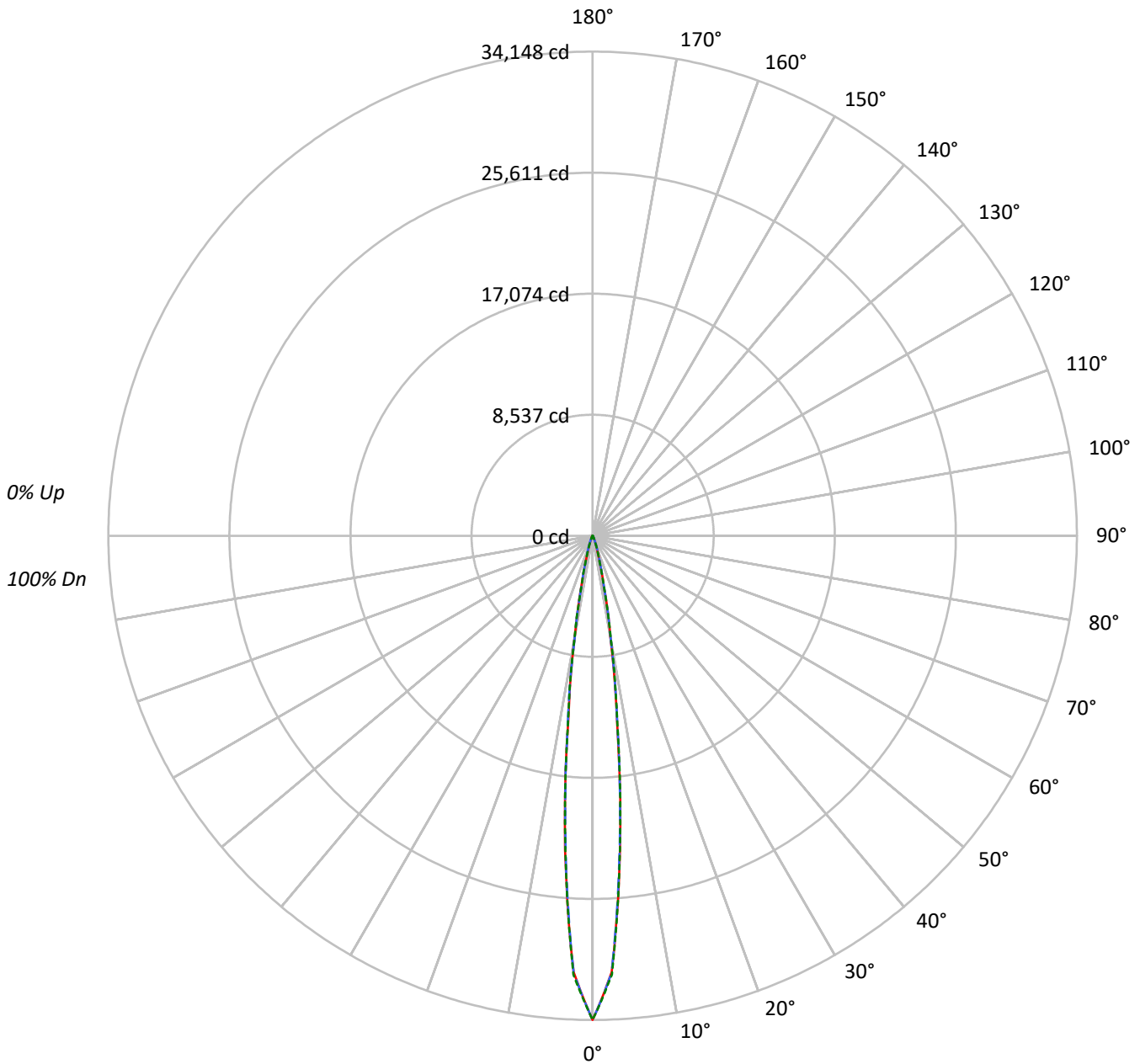
Downlight



TEST NUMBER: P745807

CATALOG NUMBER: LD4D30D010-EU4DR1515309050-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P745807

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 3842365 | 3842365 | 3842365 |
| 5° | 2257950 | 2228722 | 2246344 |
| 10° | 673895 | 678617 | 689002 |
| 15° | 167625 | 170891 | 165619 |
| 20° | 50149 | 58078 | 51221 |
| 25° | 17683 | 22521 | 17909 |
| 30° | 6492 | 8551 | 6605 |
| 35° | 3253 | 3675 | 3152 |
| 40° | 2052 | 2258 | 2052 |
| 45° | 1519 | 1617 | 1519 |
| 50° | 1203 | 1203 | 1203 |
| 55° | 1009 | 1009 | 1009 |
| 60° | 814 | 814 | 814 |
| 65° | 621 | 621 | 621 |
| 70° | 527 | 527 | 527 |
| 75° | 325 | 325 | 438 |
| 80° | 229 | 229 | 229 |
| 85° | 116 | 116 | 116 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1617 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1625.5 | 64.9 |
| 10°-20° | 668.6 | 26.7 |
| 20°-30° | 132.8 | 5.3 |
| 30°-40° | 33.1 | 1.3 |
| 40°-50° | 17.4 | 0.7 |
| 50°-60° | 12.9 | 0.5 |
| 60°-70° | 9.1 | 0.4 |
| 70°-80° | 5.2 | 0.2 |
| 80°-90° | 1.6 | 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° | 2427.0 | 96.8 |
| 0°-40° | 2460.1 | 98.2 |
| 0°-60° | 2490.4 | 99.4 |
| 0°-90° | 2506.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2506.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 34148 | 34148 | 34148 | 34148 | 34148 | |
| 5° | 22218 | 21989 | 21930 | 22082 | 22103 | 1622 |
| 15° | 1930 | 1966 | 1968 | 1933 | 1907 | 662 |
| 25° | 227 | 257 | 289 | 256 | 230 | 119 |
| 35° | 45 | 48 | 51 | 48 | 43 | 30 |
| 45° | 22 | 22 | 23 | 22 | 22 | 17 |
| 55° | 14 | 14 | 14 | 14 | 14 | 13 |
| 65° | 9 | 9 | 9 | 9 | 9 | 9 |
| 75° | 4 | 4 | 4 | 4 | 6 | 5 |
| 85° | 1 | 1 | 1 | 1 | 1 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 34148.3 | 34148.3 | 34148.3 | 34148.3 | 34148.3 |
| 2.5° | 30803.1 | 30829.2 | 30839.3 | 30869.6 | 30982.4 |
| 5° | 22217.6 | 21989.2 | 21930.0 | 22081.7 | 22103.4 |
| 7.5° | 13160.9 | 13207.1 | 13376.3 | 13413.8 | 13278.0 |
| 10° | 7222.3 | 7281.6 | 7272.9 | 7324.9 | 7384.2 |
| 12.5° | 3693.5 | 3647.3 | 3632.8 | 3692.1 | 3609.7 |
| 15° | 1929.9 | 1966.0 | 1967.5 | 1932.8 | 1906.8 |
| 17.5° | 1038.0 | 1079.9 | 1149.3 | 1092.9 | 1006.1 |
| 20° | 612.9 | 650.5 | 709.8 | 663.5 | 626.0 |
| 22.5° | 378.8 | 409.1 | 451.0 | 414.9 | 384.5 |
| 25° | 227.0 | 257.3 | 289.1 | 255.9 | 229.9 |
| 27.5° | 134.4 | 160.5 | 180.7 | 159.0 | 133.0 |
| 30° | 86.7 | 101.2 | 114.2 | 99.7 | 88.2 |
| 32.5° | 60.7 | 66.5 | 72.3 | 66.5 | 60.7 |
| 35° | 44.8 | 47.7 | 50.6 | 47.7 | 43.4 |
| 37.5° | 34.7 | 37.6 | 39.0 | 36.1 | 33.2 |
| 40° | 28.9 | 30.4 | 31.8 | 30.4 | 28.9 |
| 42.5° | 24.6 | 26.0 | 26.0 | 26.0 | 24.6 |
| 45° | 21.7 | 21.7 | 23.1 | 21.7 | 21.7 |
| 47.5° | 18.8 | 18.8 | 20.2 | 18.8 | 18.8 |
| 50° | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 |
| 52.5° | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 |
| 55° | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| 57.5° | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 |
| 60° | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 |
| 62.5° | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 |
| 65° | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 |
| 67.5° | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 |
| 70° | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 72.5° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| 75° | 4.3 | 4.3 | 4.3 | 4.3 | 5.8 |
| 77.5° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 80° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 82.5° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 85° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 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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