

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: P745762

Luminaire Tested: LD4D30D010-EU4DR1515309030-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745762
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-EU4DR1515309030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 2840.1 lumens
Efficiency: N/A
Efficacy: 97.9 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): 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

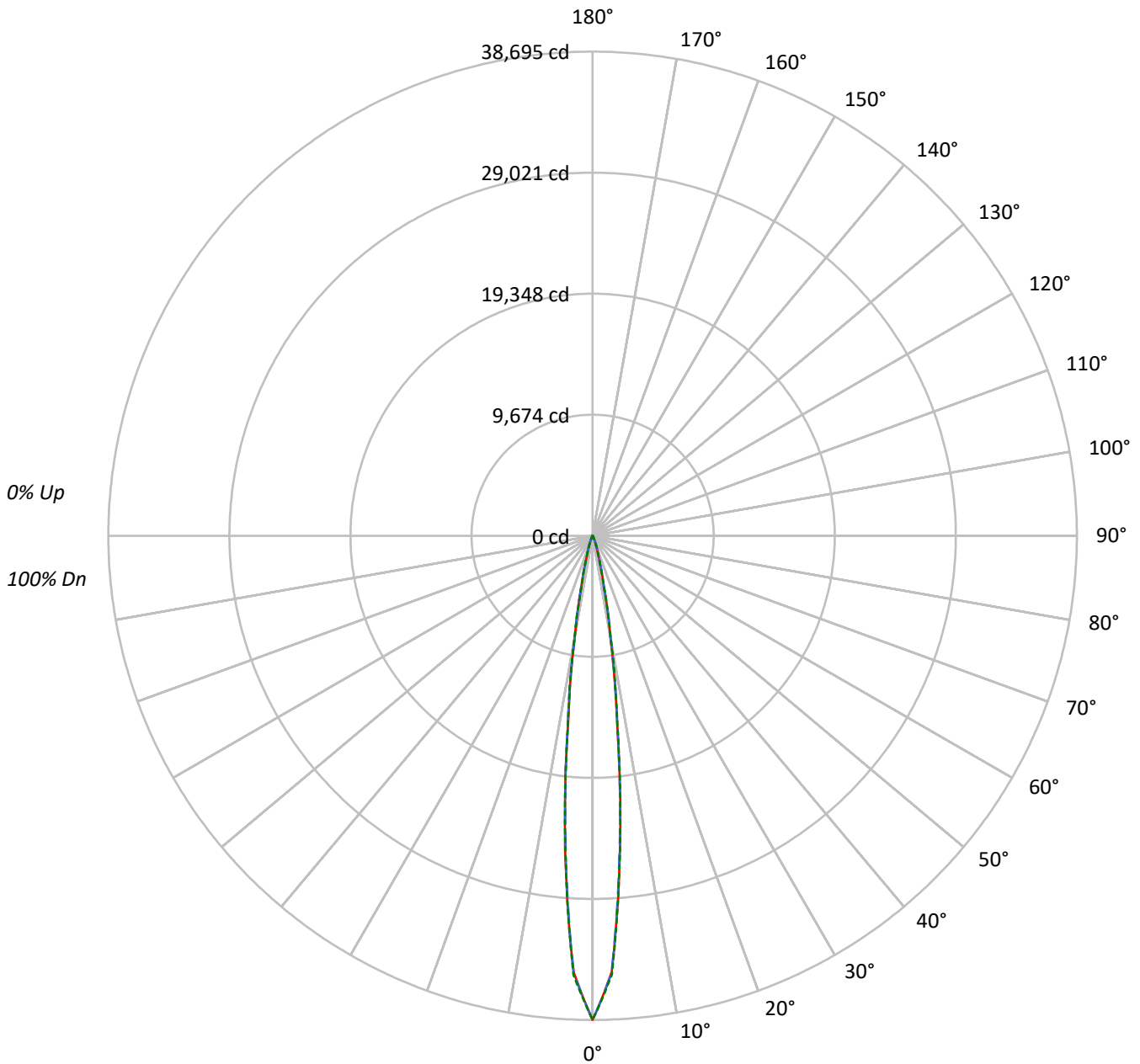


Downlight



TEST NUMBER: P745762
CATALOG NUMBER: LD4D30D010-EU4DR1515309030-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P745762

CATALOG NUMBER: LD4D30D010-EU4DR1515309030-4LBDP1LI

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° | 4353993 | 4353993 | 4353993 |
| 5° | 2558609 | 2525478 | 2545459 |
| 10° | 763629 | 768976 | 780742 |
| 15° | 189947 | 193647 | 187672 |
| 20° | 56834 | 65810 | 58037 |
| 25° | 20036 | 25520 | 20293 |
| 30° | 7361 | 9690 | 7481 |
| 35° | 3689 | 4161 | 3566 |
| 40° | 2329 | 2557 | 2329 |
| 45° | 1722 | 1834 | 1722 |
| 50° | 1370 | 1370 | 1370 |
| 55° | 1142 | 1142 | 1142 |
| 60° | 920 | 920 | 920 |
| 65° | 699 | 699 | 699 |
| 70° | 600 | 600 | 600 |
| 75° | 370 | 370 | 499 |
| 80° | 260 | 260 | 260 |
| 85° | 133 | 133 | 133 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1834 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1842.0 | 64.9 |
| 10°-20° | 757.7 | 26.7 |
| 20°-30° | 150.5 | 5.3 |
| 30°-40° | 37.6 | 1.3 |
| 40°-50° | 19.8 | 0.7 |
| 50°-60° | 14.6 | 0.5 |
| 60°-70° | 10.3 | 0.4 |
| 70°-80° | 5.9 | 0.2 |
| 80°-90° | 1.8 | 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° | 2750.1 | 96.8 |
| 0°-40° | 2787.7 | 98.2 |
| 0°-60° | 2822.1 | 99.4 |
| 0°-90° | 2840.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2840.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 38695 | 38695 | 38695 | 38695 | 38695 | |
| 5° | 25176 | 24917 | 24850 | 25022 | 25047 | 1838 |
| 15° | 2187 | 2228 | 2230 | 2190 | 2161 | 750 |
| 25° | 257 | 292 | 328 | 290 | 260 | 135 |
| 35° | 51 | 54 | 57 | 54 | 49 | 34 |
| 45° | 25 | 25 | 26 | 25 | 25 | 19 |
| 55° | 16 | 16 | 16 | 16 | 16 | 15 |
| 65° | 10 | 10 | 10 | 10 | 10 | 10 |
| 75° | 5 | 5 | 5 | 5 | 7 | 6 |
| 85° | 2 | 2 | 2 | 2 | 2 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 38695.3 | 38695.3 | 38695.3 | 38695.3 | 38695.3 |
| 2.5° | 34904.7 | 34934.2 | 34945.7 | 34980.1 | 35107.9 |
| 5° | 25176.0 | 24917.2 | 24850.0 | 25022.0 | 25046.6 |
| 7.5° | 14913.3 | 14965.7 | 15157.4 | 15200.0 | 15046.0 |
| 10° | 8184.0 | 8251.1 | 8241.3 | 8300.3 | 8367.4 |
| 12.5° | 4185.4 | 4132.9 | 4116.6 | 4183.7 | 4090.3 |
| 15° | 2186.9 | 2227.8 | 2229.5 | 2190.1 | 2160.7 |
| 17.5° | 1176.2 | 1223.7 | 1302.3 | 1238.4 | 1140.1 |
| 20° | 694.6 | 737.1 | 804.3 | 751.9 | 709.3 |
| 22.5° | 429.2 | 463.6 | 511.1 | 470.1 | 435.7 |
| 25° | 257.2 | 291.6 | 327.6 | 289.9 | 260.5 |
| 27.5° | 152.3 | 181.8 | 204.8 | 180.2 | 150.7 |
| 30° | 98.3 | 114.7 | 129.4 | 113.0 | 99.9 |
| 32.5° | 68.8 | 75.4 | 81.9 | 75.4 | 68.8 |
| 35° | 50.8 | 54.1 | 57.3 | 54.1 | 49.1 |
| 37.5° | 39.3 | 42.6 | 44.2 | 41.0 | 37.7 |
| 40° | 32.8 | 34.4 | 36.0 | 34.4 | 32.8 |
| 42.5° | 27.8 | 29.5 | 29.5 | 29.5 | 27.8 |
| 45° | 24.6 | 24.6 | 26.2 | 24.6 | 24.6 |
| 47.5° | 21.3 | 21.3 | 22.9 | 21.3 | 21.3 |
| 50° | 19.7 | 19.7 | 19.7 | 19.7 | 19.7 |
| 52.5° | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 55° | 16.4 | 16.4 | 16.4 | 16.4 | 16.4 |
| 57.5° | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 |
| 60° | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 |
| 62.5° | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 |
| 65° | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 |
| 67.5° | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 |
| 70° | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| 72.5° | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| 75° | 4.9 | 4.9 | 4.9 | 4.9 | 6.6 |
| 77.5° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 80° | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 82.5° | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 85° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 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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