

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: P745804

Luminaire Tested: LD4D30D010-EU4DR1515309050-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745804
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-EU4DR1515309050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3052.4 lumens
Efficiency: N/A
Efficacy: 105.3 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 (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

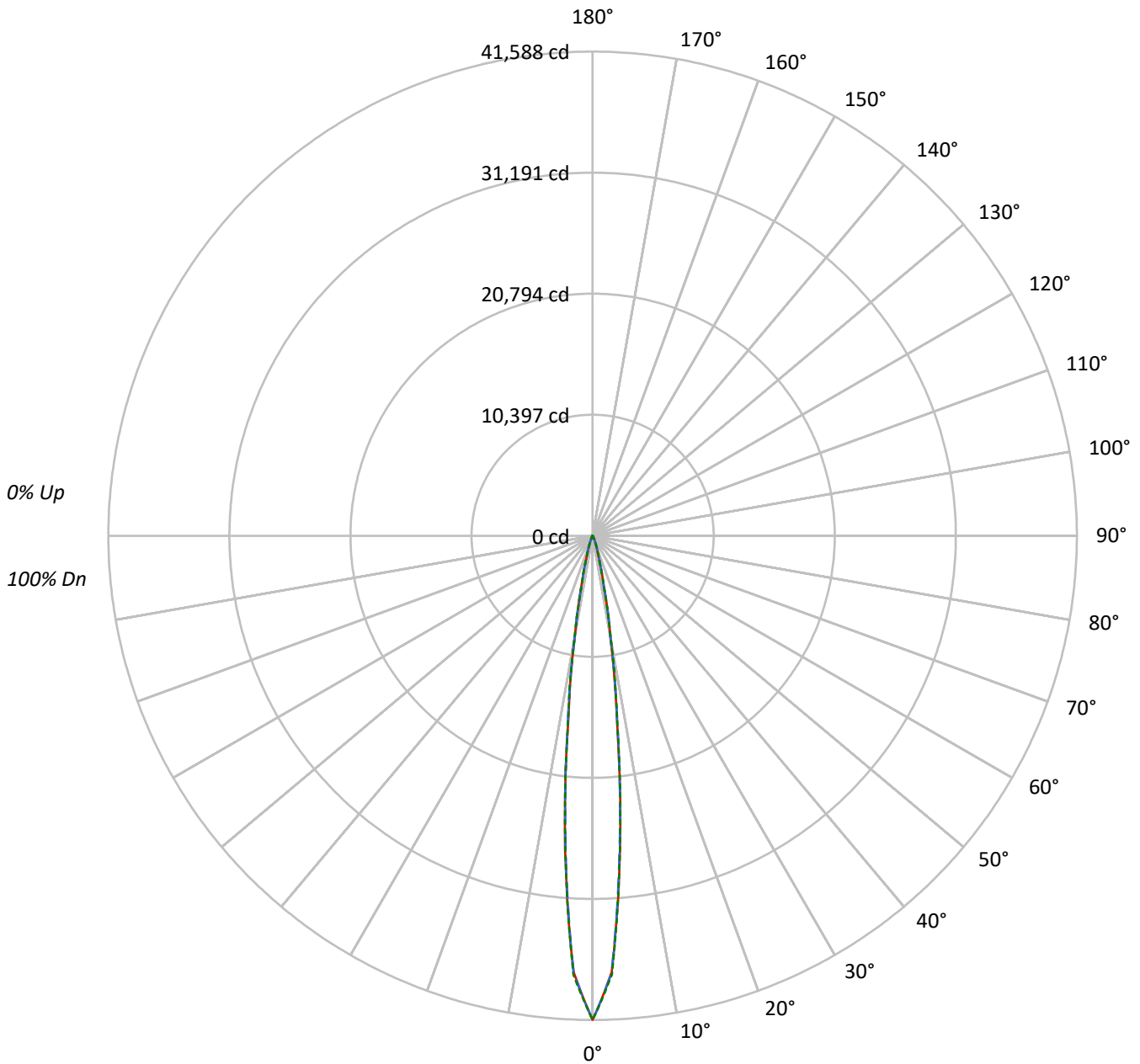


Downlight



TEST NUMBER: P745804
CATALOG NUMBER: LD4D30D010-EU4DR1515309050-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P745804

CATALOG NUMBER: LD4D30D010-EU4DR1515309050-4LBS1H

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 | 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° | 4679491 | 4679491 | 4679491 |
| 5° | 2749895 | 2714284 | 2735759 |
| 10° | 820715 | 826463 | 839115 |
| 15° | 204148 | 208118 | 201699 |
| 20° | 61081 | 70728 | 62374 |
| 25° | 21532 | 27429 | 21804 |
| 30° | 7907 | 10416 | 8042 |
| 35° | 3965 | 4473 | 3834 |
| 40° | 2500 | 2748 | 2500 |
| 45° | 1848 | 1974 | 1848 |
| 50° | 1467 | 1467 | 1467 |
| 55° | 1225 | 1225 | 1225 |
| 60° | 990 | 990 | 990 |
| 65° | 757 | 757 | 757 |
| 70° | 644 | 644 | 644 |
| 75° | 401 | 401 | 529 |
| 80° | 276 | 276 | 276 |
| 85° | 149 | 149 | 149 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1974 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1979.7 | 64.9 |
| 10°-20° | 814.3 | 26.7 |
| 20°-30° | 161.7 | 5.3 |
| 30°-40° | 40.4 | 1.3 |
| 40°-50° | 21.2 | 0.7 |
| 50°-60° | 15.7 | 0.5 |
| 60°-70° | 11.1 | 0.4 |
| 70°-80° | 6.3 | 0.2 |
| 80°-90° | 1.9 | 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° | 2955.7 | 96.8 |
| 0°-40° | 2996.1 | 98.2 |
| 0°-60° | 3033.0 | 99.4 |
| 0°-90° | 3052.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3052.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 41588 | 41588 | 41588 | 41588 | 41588 | |
| 5° | 27058 | 26780 | 26708 | 26893 | 26919 | 1976 |
| 15° | 2350 | 2394 | 2396 | 2354 | 2322 | 806 |
| 25° | 276 | 313 | 352 | 312 | 280 | 145 |
| 35° | 55 | 58 | 62 | 58 | 53 | 37 |
| 45° | 26 | 26 | 28 | 26 | 26 | 21 |
| 55° | 18 | 18 | 18 | 18 | 18 | 16 |
| 65° | 11 | 11 | 11 | 11 | 11 | 11 |
| 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° | 41588.1 | 41588.1 | 41588.1 | 41588.1 | 41588.1 |
| 2.5° | 37514.2 | 37545.9 | 37558.2 | 37595.2 | 37732.5 |
| 5° | 27058.2 | 26780.0 | 26707.8 | 26892.7 | 26919.1 |
| 7.5° | 16028.2 | 16084.5 | 16290.5 | 16336.3 | 16170.8 |
| 10° | 8795.8 | 8868.0 | 8857.4 | 8920.8 | 8993.0 |
| 12.5° | 4498.2 | 4441.9 | 4424.3 | 4496.5 | 4396.1 |
| 15° | 2350.4 | 2394.4 | 2396.1 | 2353.9 | 2322.2 |
| 17.5° | 1264.1 | 1315.1 | 1399.7 | 1331.0 | 1225.4 |
| 20° | 746.5 | 792.3 | 864.4 | 808.1 | 762.3 |
| 22.5° | 461.3 | 498.2 | 549.3 | 505.3 | 468.3 |
| 25° | 276.4 | 313.4 | 352.1 | 311.6 | 279.9 |
| 27.5° | 163.7 | 195.4 | 220.1 | 193.7 | 162.0 |
| 30° | 105.6 | 123.2 | 139.1 | 121.5 | 107.4 |
| 32.5° | 73.9 | 81.0 | 88.0 | 81.0 | 73.9 |
| 35° | 54.6 | 58.1 | 61.6 | 58.1 | 52.8 |
| 37.5° | 42.3 | 45.8 | 47.5 | 44.0 | 40.5 |
| 40° | 35.2 | 37.0 | 38.7 | 37.0 | 35.2 |
| 42.5° | 29.9 | 31.7 | 31.7 | 31.7 | 29.9 |
| 45° | 26.4 | 26.4 | 28.2 | 26.4 | 26.4 |
| 47.5° | 22.9 | 22.9 | 24.6 | 22.9 | 22.9 |
| 50° | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 |
| 52.5° | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 |
| 55° | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 |
| 57.5° | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 |
| 60° | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 |
| 62.5° | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 |
| 65° | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| 67.5° | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| 70° | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| 72.5° | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| 75° | 5.3 | 5.3 | 5.3 | 5.3 | 7.0 |
| 77.5° | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| 80° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 82.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 85° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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