

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: P744687

Luminaire Tested: LD4D20D010-EU4DR6520359035-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR6520359035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1885.3 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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

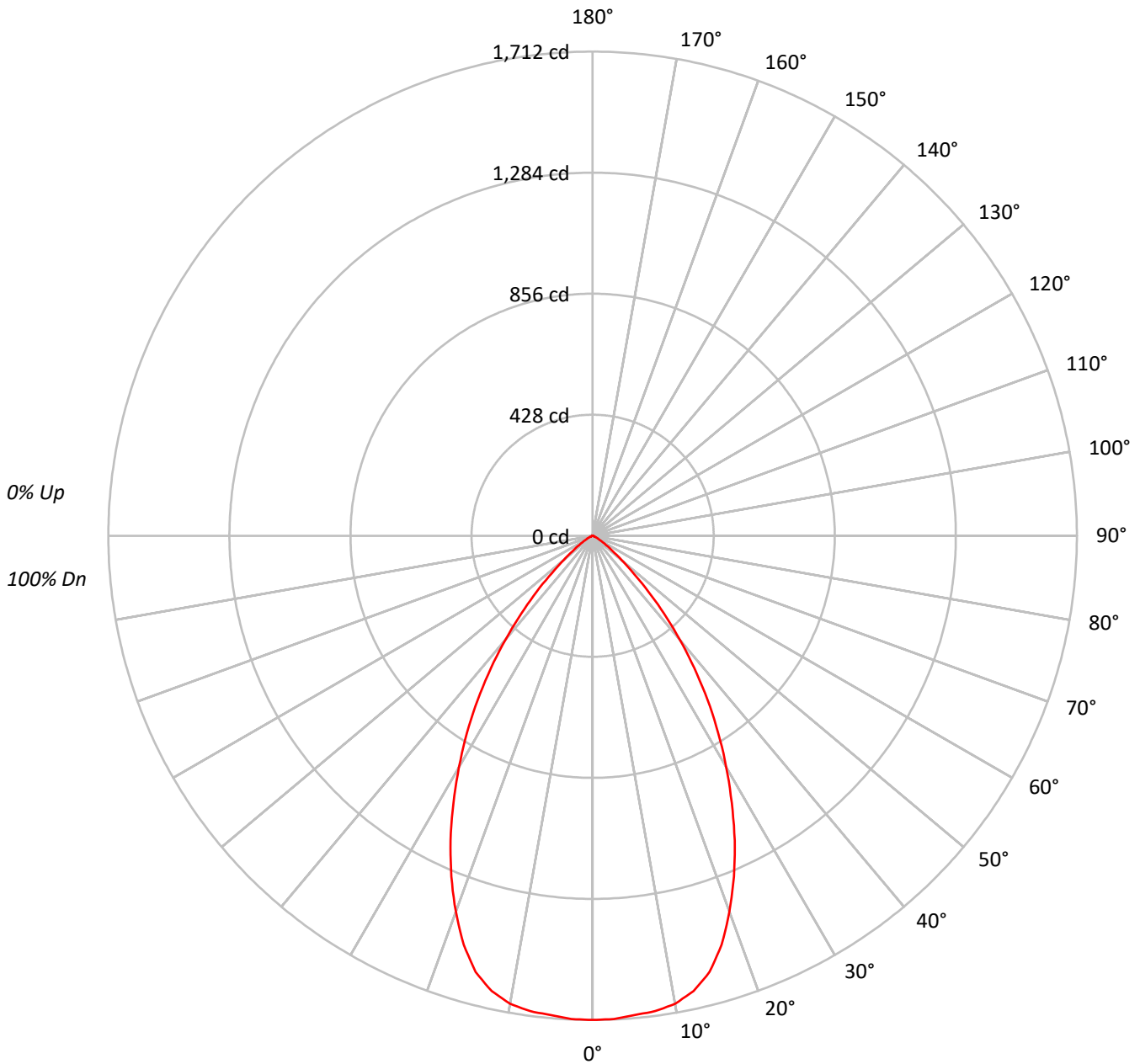


Downlight



TEST NUMBER: P744687
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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 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 | | | 100 |
| 1 | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 95 | 94 | 93 | | | 93 |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 92 | 97 | 93 | 90 | 94 | 91 | 88 | 91 | 89 | 87 | 85 | | | 85 |
| 3 | 101 | 94 | 88 | 84 | 99 | 92 | 87 | 83 | 90 | 86 | 82 | 87 | 84 | 81 | 85 | 82 | 80 | 78 | | | 78 |
| 4 | 95 | 87 | 81 | 76 | 93 | 86 | 80 | 76 | 84 | 79 | 75 | 82 | 77 | 74 | 80 | 76 | 73 | 72 | | | 72 |
| 5 | 90 | 81 | 74 | 70 | 88 | 80 | 74 | 69 | 78 | 73 | 69 | 76 | 72 | 68 | 75 | 71 | 68 | 66 | | | 66 |
| 6 | 85 | 75 | 69 | 64 | 83 | 74 | 68 | 64 | 73 | 67 | 63 | 71 | 67 | 63 | 70 | 66 | 62 | 61 | | | 61 |
| 7 | 80 | 70 | 64 | 59 | 79 | 69 | 63 | 59 | 68 | 63 | 59 | 67 | 62 | 58 | 66 | 61 | 58 | 56 | | | 56 |
| 8 | 76 | 66 | 59 | 55 | 75 | 65 | 59 | 55 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 52 | | | 52 |
| 9 | 72 | 61 | 55 | 51 | 71 | 61 | 55 | 51 | 60 | 54 | 51 | 59 | 54 | 50 | 58 | 54 | 50 | 49 | | | 49 |
| 10 | 68 | 58 | 52 | 47 | 67 | 57 | 51 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 46 | | | 46 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 99976 |
| 5° | 99724 |
| 10° | 99638 |
| 15° | 96561 |
| 20° | 87908 |
| 25° | 76608 |
| 30° | 63716 |
| 35° | 50486 |
| 40° | 36443 |
| 45° | 23019 |
| 50° | 12003 |
| 55° | 6374 |
| 60° | 3352 |
| 65° | 1838 |
| 70° | 768 |
| 75° | 857 |
| 80° | 605 |
| 85° | 469 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23019 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 161.9 | 8.6 |
| 10°-20° | 443.3 | 23.5 |
| 20°-30° | 541.8 | 28.7 |
| 30°-40° | 439.6 | 23.3 |
| 40°-50° | 219.1 | 11.6 |
| 50°-60° | 61.1 | 3.2 |
| 60°-70° | 13.9 | 0.7 |
| 70°-80° | 3.6 | 0.2 |
| 80°-90° | 0.9 | 0.0 |
| 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° | 1147.0 | 60.8 |
| 0°-40° | 1586.6 | 84.2 |
| 0°-60° | 1866.8 | 99.0 |
| 0°-90° | 1885.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1885.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1712 | |
| 5° | 1701 | 162 |
| 15° | 1597 | 443 |
| 25° | 1189 | 542 |
| 35° | 708 | 440 |
| 45° | 279 | 219 |
| 55° | 63 | 61 |
| 65° | 13 | 14 |
| 75° | 4 | 4 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1711.8 |
| 2.5° | 1710.5 |
| 5° | 1701.0 |
| 7.5° | 1695.4 |
| 10° | 1680.1 |
| 12.5° | 1648.9 |
| 15° | 1597.0 |
| 17.5° | 1516.1 |
| 20° | 1414.4 |
| 22.5° | 1304.8 |
| 25° | 1188.8 |
| 27.5° | 1064.8 |
| 30° | 944.8 |
| 32.5° | 826.3 |
| 35° | 708.1 |
| 37.5° | 590.1 |
| 40° | 478.0 |
| 42.5° | 372.8 |
| 45° | 278.7 |
| 47.5° | 194.2 |
| 50° | 132.1 |
| 52.5° | 91.0 |
| 55° | 62.6 |
| 57.5° | 42.3 |
| 60° | 28.7 |
| 62.5° | 19.9 |
| 65° | 13.3 |
| 67.5° | 6.8 |
| 70° | 4.5 |
| 72.5° | 4.3 |
| 75° | 3.8 |
| 77.5° | 2.5 |
| 80° | 1.8 |
| 82.5° | 1.3 |
| 85° | 0.7 |
| 87.5° | 0.5 |
| 90° | 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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— 0°-180°

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