

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: P758971

Luminaire Tested: LD6D08D010-EU6DR150210IC9040-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P758971
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: LD6D08D010-EU6DR150210IC9040-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 825.1 lumens
Efficiency: N/A
Efficacy: 92.7 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): 8.9
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



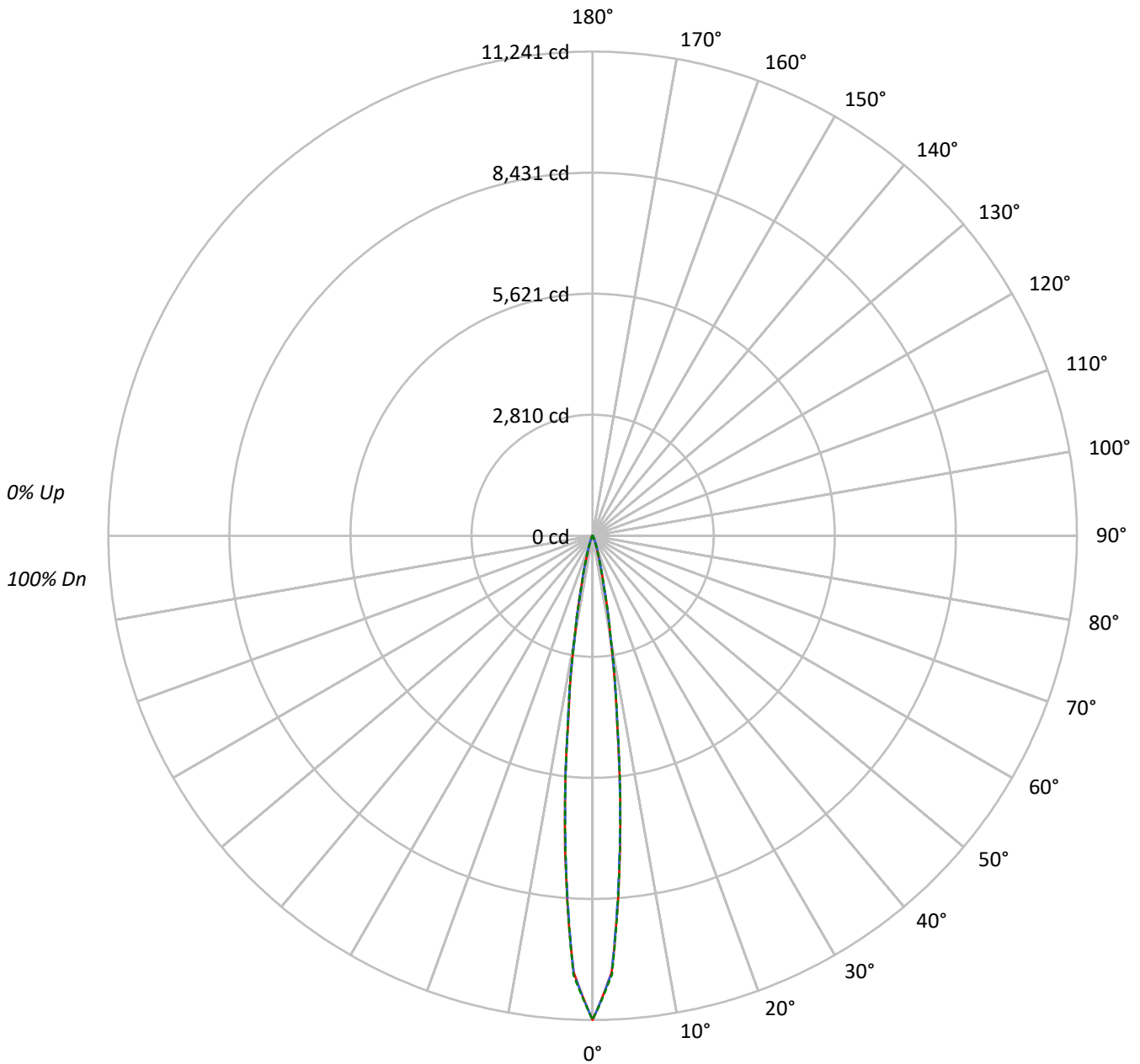
Downlight



TEST NUMBER: P758971

CATALOG NUMBER: LD6D08D010-EU6DR150210IC9040-6LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P758971

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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 | 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 | 87 | 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° | 1264814 | 1264814 | 1264814 |
| 5° | 743263 | 733639 | 739442 |
| 10° | 221829 | 223388 | 226803 |
| 15° | 55180 | 56248 | 54520 |
| 20° | 16512 | 19114 | 16855 |
| 25° | 5819 | 7416 | 5897 |
| 30° | 2142 | 2816 | 2172 |
| 35° | 1075 | 1213 | 1038 |
| 40° | 675 | 746 | 675 |
| 45° | 497 | 532 | 497 |
| 50° | 396 | 396 | 396 |
| 55° | 334 | 334 | 334 |
| 60° | 267 | 267 | 267 |
| 65° | 207 | 207 | 207 |
| 70° | 176 | 176 | 176 |
| 75° | 106 | 106 | 144 |
| 80° | 79 | 79 | 79 |
| 85° | 42 | 42 | 42 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 532 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 535.1 | 64.9 |
| 10°-20° | 220.1 | 26.7 |
| 20°-30° | 43.7 | 5.3 |
| 30°-40° | 10.9 | 1.3 |
| 40°-50° | 5.7 | 0.7 |
| 50°-60° | 4.3 | 0.5 |
| 60°-70° | 3.0 | 0.4 |
| 70°-80° | 1.7 | 0.2 |
| 80°-90° | 0.5 | 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° | 798.9 | 96.8 |
| 0°-40° | 809.8 | 98.2 |
| 0°-60° | 819.8 | 99.4 |
| 0°-90° | 825.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 825.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 11241 | 11241 | 11241 | 11241 | 11241 | |
| 5° | 7314 | 7238 | 7219 | 7269 | 7276 | 534 |
| 15° | 635 | 647 | 648 | 636 | 628 | 218 |
| 25° | 75 | 85 | 95 | 84 | 76 | 39 |
| 35° | 15 | 16 | 17 | 16 | 14 | 10 |
| 45° | 7 | 7 | 8 | 7 | 7 | 6 |
| 55° | 5 | 5 | 5 | 5 | 5 | 4 |
| 65° | 3 | 3 | 3 | 3 | 3 | 3 |
| 75° | 1 | 1 | 1 | 1 | 2 | 2 |
| 85° | 0 | 0 | 0 | 0 | 0 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 11240.8 | 11240.8 | 11240.8 | 11240.8 | 11240.8 |
| 2.5° | 10139.7 | 10148.2 | 10151.6 | 10161.6 | 10198.7 |
| 5° | 7313.5 | 7238.3 | 7218.8 | 7268.8 | 7275.9 |
| 7.5° | 4332.3 | 4347.5 | 4403.2 | 4415.5 | 4370.8 |
| 10° | 2377.4 | 2396.9 | 2394.1 | 2411.2 | 2430.7 |
| 12.5° | 1215.8 | 1200.6 | 1195.8 | 1215.4 | 1188.2 |
| 15° | 635.3 | 647.2 | 647.6 | 636.2 | 627.7 |
| 17.5° | 341.7 | 355.5 | 378.3 | 359.8 | 331.2 |
| 20° | 201.8 | 214.1 | 233.6 | 218.4 | 206.0 |
| 22.5° | 124.7 | 134.7 | 148.5 | 136.6 | 126.6 |
| 25° | 74.7 | 84.7 | 95.2 | 84.2 | 75.7 |
| 27.5° | 44.3 | 52.8 | 59.5 | 52.3 | 43.8 |
| 30° | 28.6 | 33.3 | 37.6 | 32.8 | 29.0 |
| 32.5° | 20.0 | 21.9 | 23.8 | 21.9 | 20.0 |
| 35° | 14.8 | 15.7 | 16.7 | 15.7 | 14.3 |
| 37.5° | 11.4 | 12.4 | 12.8 | 11.9 | 10.9 |
| 40° | 9.5 | 10.0 | 10.5 | 10.0 | 9.5 |
| 42.5° | 8.1 | 8.6 | 8.6 | 8.6 | 8.1 |
| 45° | 7.1 | 7.1 | 7.6 | 7.1 | 7.1 |
| 47.5° | 6.2 | 6.2 | 6.7 | 6.2 | 6.2 |
| 50° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 52.5° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 55° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| 57.5° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 60° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 62.5° | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 65° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 67.5° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 70° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 72.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 75° | 1.4 | 1.4 | 1.4 | 1.4 | 1.9 |
| 77.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 80° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 82.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 85° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 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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