

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: P761936

Luminaire Tested: LD6D20D010-EU6DR1515309027-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P761936
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: LD6D20D010-EU6DR1515309027-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1717.5 lumens
Efficiency: N/A
Efficacy: 74.4 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): 23.1
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

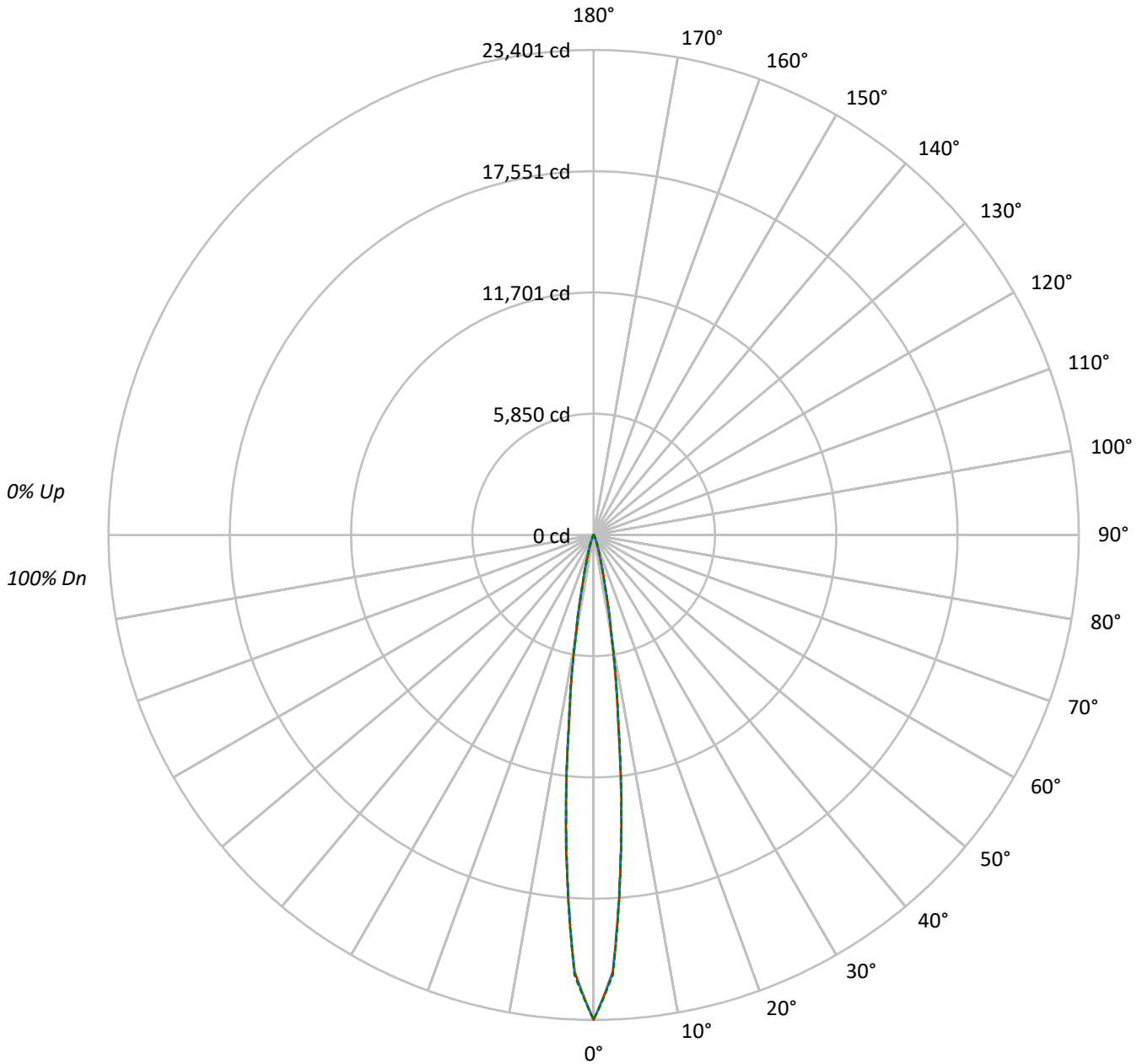


Downlight



TEST NUMBER: P761936
CATALOG NUMBER: LD6D20D010-EU6DR1515309027-6LBCSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P761936

CATALOG NUMBER: LD6D20D010-EU6DR1515309027-6LBCSSQMB

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° | 2633068 | 2633068 | 2633068 |
| 5° | 1547320 | 1527279 | 1539363 |
| 10° | 461798 | 465036 | 472155 |
| 15° | 114868 | 117109 | 113496 |
| 20° | 34366 | 39799 | 35094 |
| 25° | 12114 | 15432 | 12269 |
| 30° | 4448 | 5863 | 4523 |
| 35° | 2229 | 2520 | 2157 |
| 40° | 1406 | 1548 | 1406 |
| 45° | 1043 | 1113 | 1043 |
| 50° | 827 | 827 | 827 |
| 55° | 689 | 689 | 689 |
| 60° | 555 | 555 | 555 |
| 65° | 421 | 421 | 421 |
| 70° | 366 | 366 | 366 |
| 75° | 227 | 227 | 302 |
| 80° | 158 | 158 | 158 |
| 85° | 83 | 83 | 83 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1113 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1113.9 | 64.9 |
| 10°-20° | 458.2 | 26.7 |
| 20°-30° | 91.0 | 5.3 |
| 30°-40° | 22.7 | 1.3 |
| 40°-50° | 11.9 | 0.7 |
| 50°-60° | 8.8 | 0.5 |
| 60°-70° | 6.2 | 0.4 |
| 70°-80° | 3.6 | 0.2 |
| 80°-90° | 1.1 | 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° | 1663.1 | 96.8 |
| 0°-40° | 1685.8 | 98.2 |
| 0°-60° | 1706.6 | 99.4 |
| 0°-90° | 1717.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1717.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 23401 | 23401 | 23401 | 23401 | 23401 | |
| 5° | 15225 | 15069 | 15028 | 15132 | 15147 | 1112 |
| 15° | 1322 | 1347 | 1348 | 1324 | 1307 | 453 |
| 25° | 156 | 176 | 198 | 175 | 158 | 82 |
| 35° | 31 | 33 | 35 | 33 | 30 | 21 |
| 45° | 15 | 15 | 16 | 15 | 15 | 12 |
| 55° | 10 | 10 | 10 | 10 | 10 | 9 |
| 65° | 6 | 6 | 6 | 6 | 6 | 6 |
| 75° | 3 | 3 | 3 | 3 | 4 | 4 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 23400.9 | 23400.9 | 23400.9 | 23400.9 | 23400.9 |
| 2.5° | 21108.6 | 21126.4 | 21133.4 | 21154.2 | 21231.4 |
| 5° | 15225.2 | 15068.7 | 15028.0 | 15132.1 | 15146.9 |
| 7.5° | 9018.8 | 9050.5 | 9166.4 | 9192.2 | 9099.0 |
| 10° | 4949.2 | 4989.9 | 4983.9 | 5019.6 | 5060.2 |
| 12.5° | 2531.1 | 2499.4 | 2489.5 | 2530.1 | 2473.6 |
| 15° | 1322.5 | 1347.3 | 1348.3 | 1324.5 | 1306.7 |
| 17.5° | 711.3 | 740.0 | 787.6 | 748.9 | 689.5 |
| 20° | 420.0 | 445.8 | 486.4 | 454.7 | 428.9 |
| 22.5° | 259.5 | 280.4 | 309.1 | 284.3 | 263.5 |
| 25° | 155.5 | 176.3 | 198.1 | 175.3 | 157.5 |
| 27.5° | 92.1 | 110.0 | 123.8 | 109.0 | 91.1 |
| 30° | 59.4 | 69.3 | 78.3 | 68.4 | 60.4 |
| 32.5° | 41.6 | 45.6 | 49.5 | 45.6 | 41.6 |
| 35° | 30.7 | 32.7 | 34.7 | 32.7 | 29.7 |
| 37.5° | 23.8 | 25.8 | 26.7 | 24.8 | 22.8 |
| 40° | 19.8 | 20.8 | 21.8 | 20.8 | 19.8 |
| 42.5° | 16.8 | 17.8 | 17.8 | 17.8 | 16.8 |
| 45° | 14.9 | 14.9 | 15.9 | 14.9 | 14.9 |
| 47.5° | 12.9 | 12.9 | 13.9 | 12.9 | 12.9 |
| 50° | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 |
| 52.5° | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| 55° | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 |
| 57.5° | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |
| 60° | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| 62.5° | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 |
| 65° | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| 67.5° | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| 70° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 72.5° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 75° | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 |
| 77.5° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 80° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 82.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 85° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 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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