

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: P771892

Luminaire Tested: LD6D80BD010-EU6DR3070959040-6LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD6D80BD010-EU6DR3070959040-6LBSQW1B
Description: 6 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

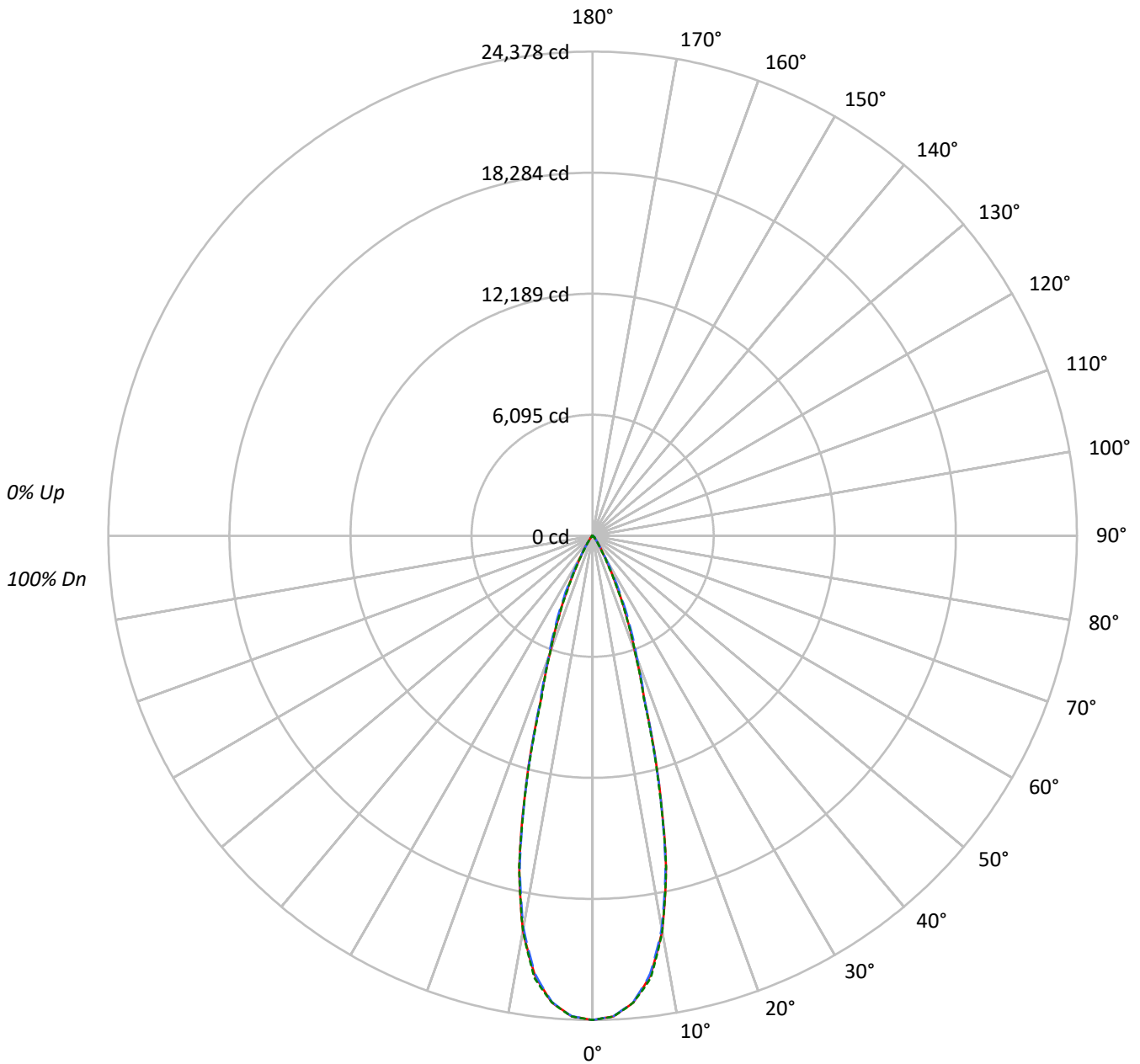
Lumens per Lamp: N/A
Luminaire Lumens: 7581.6 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
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



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Luminous Intensity Polar Plot





TEST NUMBER: P771892

CATALOG NUMBER: LD6D80BD010-EU6DR3070959040-6LBSQW1B

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 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | | | | | | | | | | | | | | | | | | | |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | | | | | | | | | | | | | | | | | | | |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | | | | | | | | | | | | | | | | | | | |
| 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 86 | 84 | 88 | 86 | 83 | 82 | | | | | | | | | | | | | | | | | | | |
| 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | | | | | | | | | | | | | | | | | | | |
| 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | | | | | | | | | | | | | | | | | | | |
| 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | | | | | | | | | | | | | | | | | | | |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | | | | | | | | | | | | | | | | | | | |
| 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1866006 | 1866006 | 1866006 |
| 5° | 1812433 | 1810320 | 1812525 |
| 10° | 1569842 | 1558774 | 1569469 |
| 15° | 1024247 | 1018747 | 1013620 |
| 20° | 509310 | 528420 | 508626 |
| 25° | 256553 | 289305 | 251300 |
| 30° | 102721 | 111922 | 89498 |
| 35° | 47646 | 45628 | 38246 |
| 40° | 20574 | 22842 | 19375 |
| 45° | 14516 | 18013 | 14635 |
| 50° | 4989 | 13111 | 5275 |
| 55° | 2869 | 5431 | 3029 |
| 60° | 2021 | 2388 | 2021 |
| 65° | 1304 | 1304 | 1304 |
| 70° | 806 | 537 | 806 |
| 75° | 0 | 355 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18013 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2143.7 | 28.3 |
| 10°-20° | 3452.5 | 45.5 |
| 20°-30° | 1491.9 | 19.7 |
| 30°-40° | 340.0 | 4.5 |
| 40°-50° | 116.8 | 1.5 |
| 50°-60° | 28.5 | 0.4 |
| 60°-70° | 7.4 | 0.1 |
| 70°-80° | 0.8 | 0.0 |
| 80°-90° | 0.0 | 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° | 7088.1 | 93.5 |
| 0°-40° | 7428.1 | 98.0 |
| 0°-60° | 7573.4 | 99.9 |
| 0°-90° | 7581.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7581.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 24378 | 24378 | 24378 | 24378 | 24378 | |
| 5° | 23588 | 23566 | 23561 | 23610 | 23590 | 2145 |
| 15° | 12925 | 12770 | 12856 | 12814 | 12791 | 3461 |
| 25° | 3038 | 3153 | 3426 | 3072 | 2976 | 1454 |
| 35° | 510 | 521 | 488 | 485 | 409 | 346 |
| 45° | 134 | 166 | 166 | 166 | 135 | 95 |
| 55° | 22 | 23 | 41 | 24 | 23 | 21 |
| 65° | 7 | 7 | 7 | 7 | 7 | 7 |
| 75° | 0 | 0 | 1 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P771892

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 24378.4 | 24378.4 | 24378.4 | 24378.4 | 24378.4 |
| 2.5° | 24216.8 | 24200.0 | 24209.6 | 24221.6 | 24226.4 |
| 5° | 23588.4 | 23565.7 | 23560.9 | 23610.0 | 23589.6 |
| 7.5° | 22320.9 | 22288.6 | 22239.5 | 22350.8 | 22455.0 |
| 10° | 20197.6 | 20161.7 | 20055.2 | 20107.9 | 20192.8 |
| 12.5° | 17063.0 | 16946.9 | 16944.5 | 17112.0 | 17089.3 |
| 15° | 12925.3 | 12769.7 | 12855.9 | 12814.0 | 12791.2 |
| 17.5° | 8691.9 | 8632.0 | 8746.9 | 8712.2 | 8562.6 |
| 20° | 6252.6 | 6268.1 | 6487.2 | 6377.1 | 6244.2 |
| 22.5° | 4562.6 | 4618.8 | 4878.5 | 4594.9 | 4490.8 |
| 25° | 3037.7 | 3152.6 | 3425.5 | 3072.4 | 2975.5 |
| 27.5° | 1868.4 | 1921.0 | 2197.5 | 1844.4 | 1791.8 |
| 30° | 1162.2 | 1135.9 | 1266.3 | 1086.8 | 1012.6 |
| 32.5° | 762.4 | 728.9 | 770.8 | 691.8 | 632.0 |
| 35° | 509.9 | 520.6 | 488.3 | 484.7 | 409.3 |
| 37.5° | 318.4 | 366.3 | 323.2 | 344.7 | 263.3 |
| 40° | 205.9 | 265.7 | 228.6 | 252.5 | 193.9 |
| 42.5° | 168.8 | 204.7 | 187.9 | 199.9 | 172.4 |
| 45° | 134.1 | 166.4 | 166.4 | 166.4 | 135.2 |
| 47.5° | 74.2 | 111.3 | 142.4 | 113.7 | 79.0 |
| 50° | 41.9 | 56.3 | 110.1 | 58.6 | 44.3 |
| 52.5° | 28.7 | 32.3 | 75.4 | 33.5 | 29.9 |
| 55° | 21.5 | 22.7 | 40.7 | 23.9 | 22.7 |
| 57.5° | 16.8 | 18.0 | 21.5 | 18.0 | 16.8 |
| 60° | 13.2 | 13.2 | 15.6 | 14.4 | 13.2 |
| 62.5° | 9.6 | 9.6 | 10.8 | 9.6 | 9.6 |
| 65° | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 67.5° | 3.6 | 4.8 | 4.8 | 4.8 | 4.8 |
| 70° | 3.6 | 2.4 | 2.4 | 2.4 | 3.6 |
| 72.5° | 2.4 | 1.2 | 1.2 | 1.2 | 1.2 |
| 75° | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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