

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: P770271

Luminaire Tested: LD6D70BD010-EU6DR3070959024-6LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P770271
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: LD6D70BD010-EU6DR3070959024-6LBCSSQMW
Description: 6 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6168.8 lumens
Efficiency: N/A
Efficacy: 92.6 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

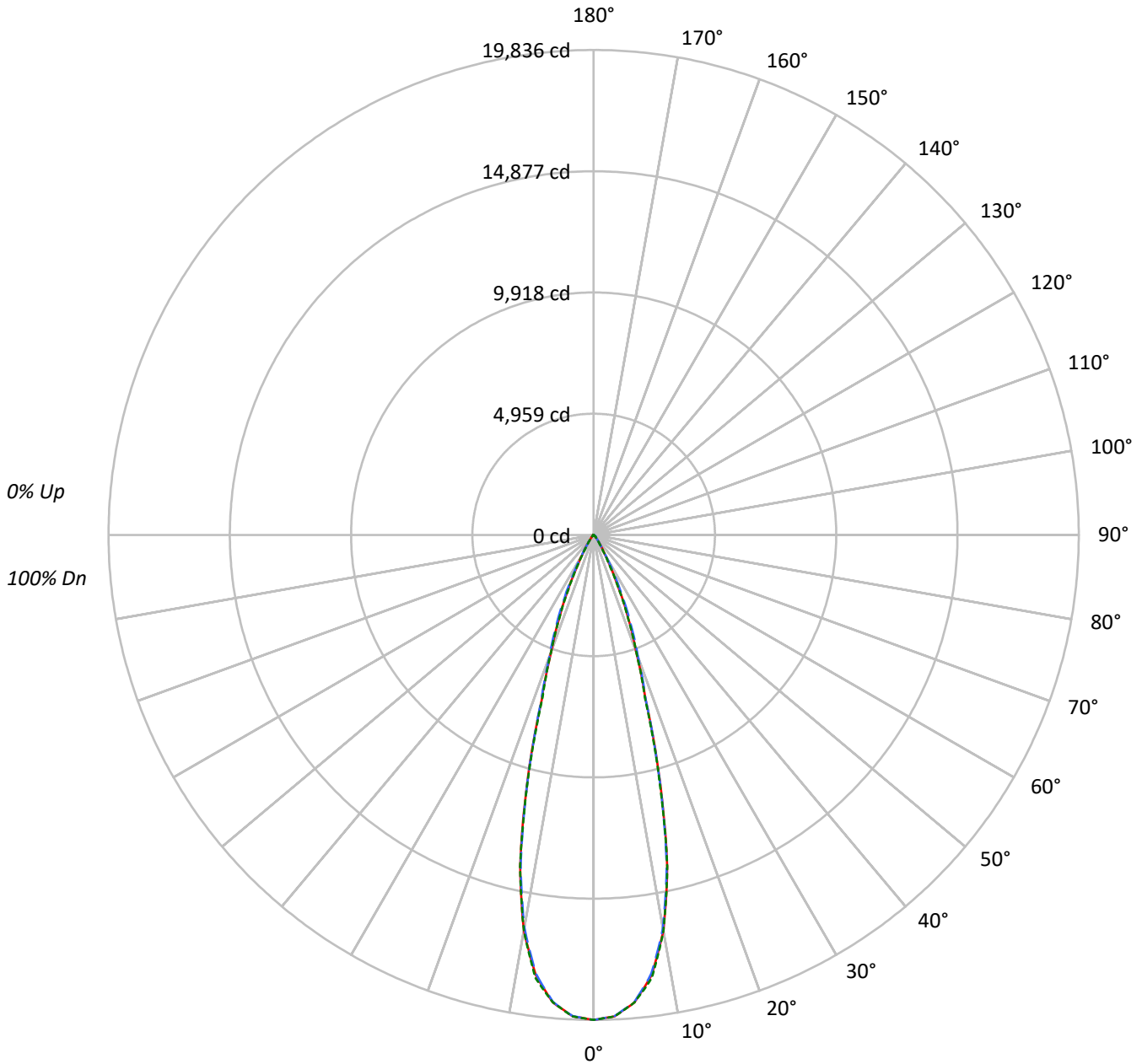
Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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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 | 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° | 1518299 | 1518299 | 1518299 |
| 5° | 1474717 | 1472996 | 1474786 |
| 10° | 1277327 | 1268319 | 1277024 |
| 15° | 833389 | 828919 | 824751 |
| 20° | 414406 | 429956 | 413852 |
| 25° | 208751 | 235397 | 204469 |
| 30° | 83577 | 91072 | 72820 |
| 35° | 38769 | 37125 | 31126 |
| 40° | 16737 | 18585 | 15767 |
| 45° | 11810 | 14657 | 11907 |
| 50° | 4061 | 10670 | 4287 |
| 55° | 2335 | 4417 | 2469 |
| 60° | 1638 | 1944 | 1638 |
| 65° | 1050 | 1050 | 1050 |
| 70° | 649 | 425 | 649 |
| 75° | 0 | 296 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14657 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1744.3 | 28.3 |
| 10°-20° | 2809.2 | 45.5 |
| 20°-30° | 1213.9 | 19.7 |
| 30°-40° | 276.7 | 4.5 |
| 40°-50° | 95.0 | 1.5 |
| 50°-60° | 23.2 | 0.4 |
| 60°-70° | 6.0 | 0.1 |
| 70°-80° | 0.6 | 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° | 5767.3 | 93.5 |
| 0°-40° | 6044.0 | 98.0 |
| 0°-60° | 6162.2 | 99.9 |
| 0°-90° | 6168.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6168.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 19836 | 19836 | 19836 | 19836 | 19836 | |
| 5° | 19193 | 19175 | 19171 | 19211 | 19194 | 1746 |
| 15° | 10517 | 10390 | 10460 | 10426 | 10408 | 2816 |
| 25° | 2472 | 2565 | 2787 | 2500 | 2421 | 1183 |
| 35° | 415 | 424 | 397 | 394 | 333 | 281 |
| 45° | 109 | 135 | 135 | 135 | 110 | 77 |
| 55° | 18 | 18 | 33 | 20 | 18 | 17 |
| 65° | 6 | 6 | 6 | 6 | 6 | 6 |
| 75° | 0 | 0 | 1 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 19835.8 | 19835.8 | 19835.8 | 19835.8 | 19835.8 |
| 2.5° | 19704.4 | 19690.7 | 19698.5 | 19708.3 | 19712.1 |
| 5° | 19193.1 | 19174.6 | 19170.7 | 19210.6 | 19194.0 |
| 7.5° | 18161.7 | 18135.5 | 18095.5 | 18186.1 | 18270.8 |
| 10° | 16434.1 | 16404.9 | 16318.2 | 16361.1 | 16430.2 |
| 12.5° | 13883.5 | 13789.1 | 13787.1 | 13923.5 | 13904.9 |
| 15° | 10516.8 | 10390.2 | 10460.4 | 10426.3 | 10407.8 |
| 17.5° | 7072.3 | 7023.6 | 7117.1 | 7088.8 | 6967.1 |
| 20° | 5087.5 | 5100.2 | 5278.4 | 5188.8 | 5080.7 |
| 22.5° | 3712.4 | 3758.2 | 3969.5 | 3738.7 | 3654.0 |
| 25° | 2471.7 | 2565.2 | 2787.2 | 2499.9 | 2421.0 |
| 27.5° | 1520.2 | 1563.1 | 1788.0 | 1500.7 | 1457.9 |
| 30° | 945.6 | 924.2 | 1030.4 | 884.3 | 823.9 |
| 32.5° | 620.4 | 593.1 | 627.2 | 562.9 | 514.2 |
| 35° | 414.9 | 423.6 | 397.3 | 394.4 | 333.1 |
| 37.5° | 259.1 | 298.0 | 262.9 | 280.5 | 214.3 |
| 40° | 167.5 | 216.2 | 186.0 | 205.5 | 157.8 |
| 42.5° | 137.3 | 166.5 | 152.9 | 162.6 | 140.2 |
| 45° | 109.1 | 135.4 | 135.4 | 135.4 | 110.0 |
| 47.5° | 60.4 | 90.6 | 115.9 | 92.5 | 64.3 |
| 50° | 34.1 | 45.8 | 89.6 | 47.7 | 36.0 |
| 52.5° | 23.4 | 26.3 | 61.4 | 27.3 | 24.3 |
| 55° | 17.5 | 18.5 | 33.1 | 19.5 | 18.5 |
| 57.5° | 13.6 | 14.6 | 17.5 | 14.6 | 13.6 |
| 60° | 10.7 | 10.7 | 12.7 | 11.7 | 10.7 |
| 62.5° | 7.8 | 7.8 | 8.8 | 7.8 | 7.8 |
| 65° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| 67.5° | 2.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 70° | 2.9 | 1.9 | 1.9 | 1.9 | 2.9 |
| 72.5° | 1.9 | 1.0 | 1.0 | 1.0 | 1.0 |
| 75° | 0.0 | 0.0 | 1.0 | 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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