

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: P766413

Luminaire Tested: LD6D45BD010-EU6DR3040509035-6LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766413
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: LD6D45BD010-EU6DR3040509035-6LBDP1LI
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5081.0 lumens
Efficiency: N/A
Efficacy: 131.3 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): 38.7
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

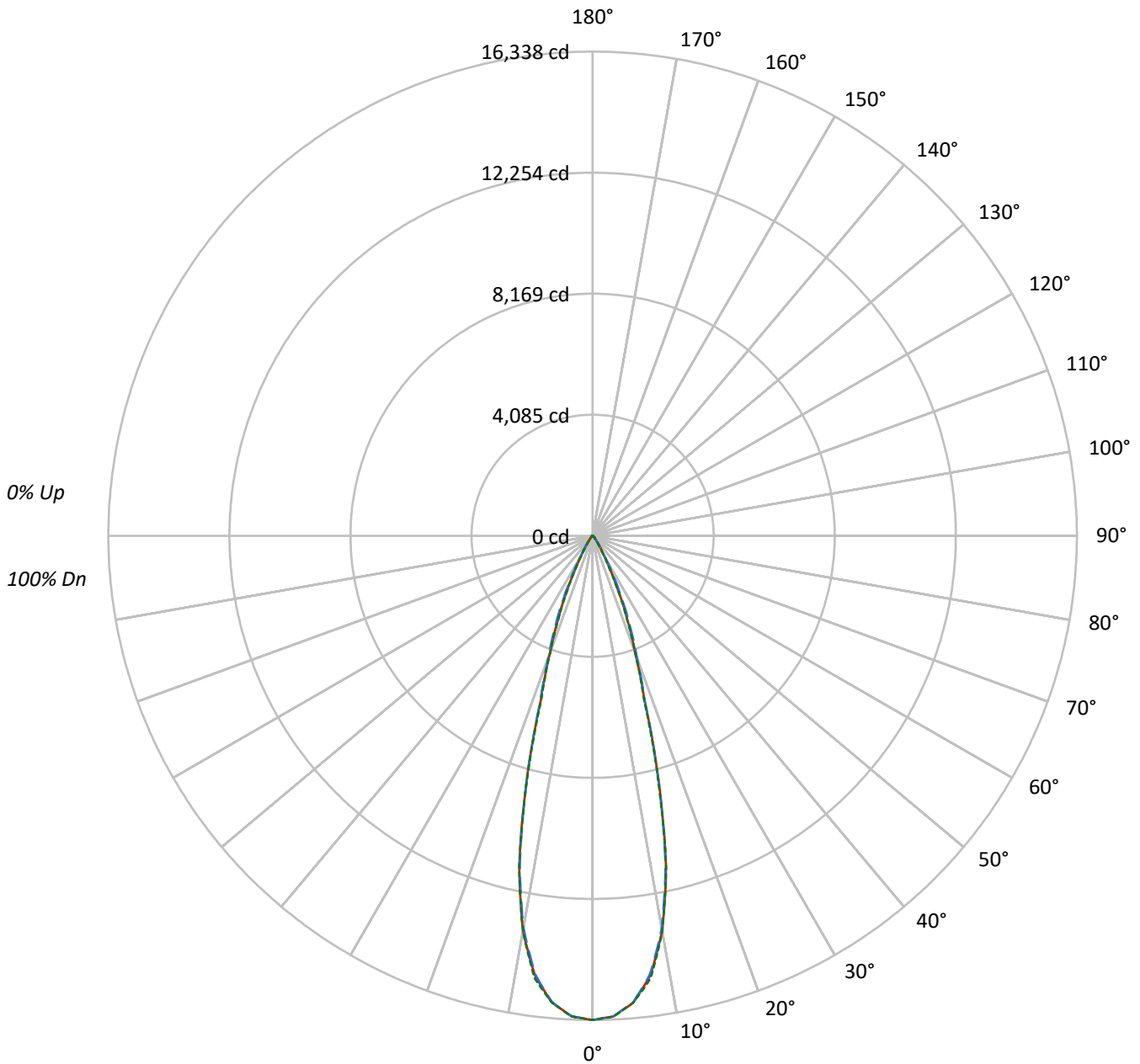


Downlight

TEST NUMBER: P766413

CATALOG NUMBER: LD6D45BD010-EU6DR3040509035-6LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P766413

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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° | 1250566 | 1250566 | 1250566 |
| 5° | 1214666 | 1213252 | 1214728 |
| 10° | 1052083 | 1044668 | 1051834 |
| 15° | 686431 | 682747 | 679315 |
| 20° | 341332 | 354137 | 340876 |
| 25° | 171936 | 193886 | 168414 |
| 30° | 68843 | 75012 | 59978 |
| 35° | 31929 | 30584 | 25631 |
| 40° | 13789 | 15308 | 12980 |
| 45° | 9721 | 12070 | 9807 |
| 50° | 3346 | 8788 | 3537 |
| 55° | 1922 | 3643 | 2028 |
| 60° | 1347 | 1592 | 1347 |
| 65° | 869 | 869 | 869 |
| 70° | 537 | 358 | 537 |
| 75° | 0 | 237 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 12070 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1436.7 | 28.3 |
| 10°-20° | 2313.8 | 45.5 |
| 20°-30° | 999.8 | 19.7 |
| 30°-40° | 227.9 | 4.5 |
| 40°-50° | 78.2 | 1.5 |
| 50°-60° | 19.1 | 0.4 |
| 60°-70° | 4.9 | 0.1 |
| 70°-80° | 0.5 | 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° | 4750.3 | 93.5 |
| 0°-40° | 4978.2 | 98.0 |
| 0°-60° | 5075.6 | 99.9 |
| 0°-90° | 5081.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5081.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 16338 | 16338 | 16338 | 16338 | 16338 | |
| 5° | 15809 | 15793 | 15790 | 15823 | 15809 | 1438 |
| 15° | 8662 | 8558 | 8616 | 8588 | 8572 | 2319 |
| 25° | 2036 | 2113 | 2296 | 2059 | 1994 | 974 |
| 35° | 342 | 349 | 327 | 325 | 274 | 232 |
| 45° | 90 | 112 | 112 | 112 | 91 | 64 |
| 55° | 14 | 15 | 27 | 16 | 15 | 14 |
| 65° | 5 | 5 | 5 | 5 | 5 | 5 |
| 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° | 16338.0 | 16338.0 | 16338.0 | 16338.0 | 16338.0 |
| 2.5° | 16229.7 | 16218.5 | 16224.9 | 16232.9 | 16236.2 |
| 5° | 15808.6 | 15793.4 | 15790.2 | 15823.1 | 15809.4 |
| 7.5° | 14959.1 | 14937.5 | 14904.6 | 14979.2 | 15049.0 |
| 10° | 13536.1 | 13512.1 | 13440.7 | 13476.0 | 13532.9 |
| 12.5° | 11435.3 | 11357.5 | 11355.9 | 11468.2 | 11453.0 |
| 15° | 8662.3 | 8558.1 | 8615.8 | 8587.7 | 8572.5 |
| 17.5° | 5825.2 | 5785.0 | 5862.1 | 5838.8 | 5738.5 |
| 20° | 4190.4 | 4200.8 | 4347.6 | 4273.8 | 4184.8 |
| 22.5° | 3057.8 | 3095.5 | 3269.5 | 3079.4 | 3009.6 |
| 25° | 2035.8 | 2112.8 | 2295.7 | 2059.1 | 1994.1 |
| 27.5° | 1252.1 | 1287.4 | 1472.7 | 1236.1 | 1200.8 |
| 30° | 778.9 | 761.2 | 848.7 | 728.3 | 678.6 |
| 32.5° | 511.0 | 488.5 | 516.6 | 463.6 | 423.5 |
| 35° | 341.7 | 348.9 | 327.3 | 324.9 | 274.3 |
| 37.5° | 213.4 | 245.5 | 216.6 | 231.0 | 176.5 |
| 40° | 138.0 | 178.1 | 153.2 | 169.3 | 129.9 |
| 42.5° | 113.1 | 137.2 | 125.9 | 134.0 | 115.5 |
| 45° | 89.8 | 111.5 | 111.5 | 111.5 | 90.6 |
| 47.5° | 49.7 | 74.6 | 95.5 | 76.2 | 52.9 |
| 50° | 28.1 | 37.7 | 73.8 | 39.3 | 29.7 |
| 52.5° | 19.3 | 21.7 | 50.5 | 22.5 | 20.1 |
| 55° | 14.4 | 15.2 | 27.3 | 16.0 | 15.2 |
| 57.5° | 11.2 | 12.0 | 14.4 | 12.0 | 11.2 |
| 60° | 8.8 | 8.8 | 10.4 | 9.6 | 8.8 |
| 62.5° | 6.4 | 6.4 | 7.2 | 6.4 | 6.4 |
| 65° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| 67.5° | 2.4 | 3.2 | 3.2 | 3.2 | 3.2 |
| 70° | 2.4 | 1.6 | 1.6 | 1.6 | 2.4 |
| 72.5° | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| 75° | 0.0 | 0.0 | 0.8 | 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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