

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: P757941

Luminaire Tested: LD6D05D010-EU6DR150210IC9035-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P757941
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: LD6D05D010-EU6DR150210IC9035-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 658.4 lumens
Efficiency: N/A
Efficacy: 87.8 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): 7.5
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



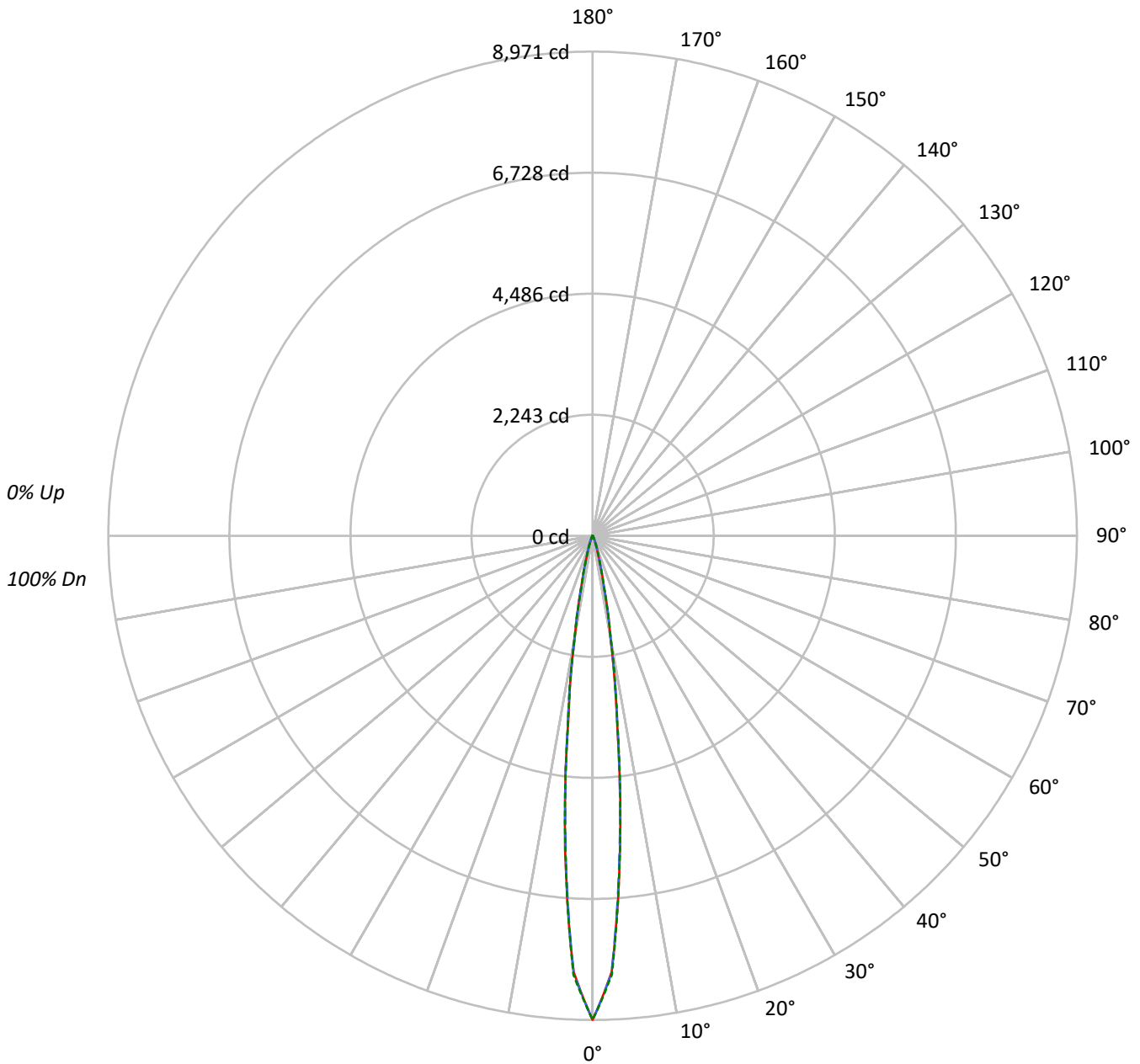
Downlight



TEST NUMBER: P757941

CATALOG NUMBER: LD6D05D010-EU6DR150210IC9035-6LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P757941

CATALOG NUMBER: LD6D05D010-EU6DR150210IC9035-6LBDP1B

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 | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 103 | 101 | 100 | 100 | 98 | | | | | | | | | | | | | | | | | | | |
| 2 | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 | 102 | 101 | 100 | 100 | 98 | 98 | 96 | | | | | | | | | | | | | | | | | | | |
| 3 | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99 | 100 | 99 | 97 | 98 | 97 | 96 | 94 | | | | | | | | | | | | | | | | | | | |
| 4 | 108 | 103 | 100 | 98 | 106 | 102 | 99 | 97 | 100 | 98 | 96 | 99 | 97 | 95 | 97 | 95 | 94 | 93 | | | | | | | | | | | | | | | | | | | |
| 5 | 106 | 101 | 98 | 95 | 104 | 100 | 97 | 95 | 98 | 96 | 94 | 97 | 95 | 93 | 96 | 94 | 92 | 92 | | | | | | | | | | | | | | | | | | | |
| 6 | 104 | 99 | 95 | 93 | 102 | 98 | 95 | 93 | 97 | 94 | 92 | 96 | 93 | 92 | 95 | 93 | 91 | 90 | | | | | | | | | | | | | | | | | | | |
| 7 | 102 | 97 | 94 | 91 | 101 | 96 | 93 | 91 | 95 | 93 | 91 | 94 | 92 | 90 | 93 | 91 | 90 | 89 | | | | | | | | | | | | | | | | | | | |
| 8 | 100 | 95 | 92 | 90 | 99 | 95 | 92 | 90 | 94 | 91 | 89 | 93 | 91 | 89 | 92 | 90 | 89 | 88 | | | | | | | | | | | | | | | | | | | |
| 9 | 99 | 93 | 90 | 88 | 98 | 93 | 90 | 88 | 92 | 90 | 88 | 92 | 89 | 88 | 91 | 89 | 87 | 87 | | | | | | | | | | | | | | | | | | | |
| 10 | 97 | 92 | 89 | 87 | 96 | 92 | 89 | 87 | 91 | 89 | 87 | 91 | 88 | 87 | 90 | 88 | 86 | 86 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1009394 | 1009394 | 1009394 |
| 5° | 593167 | 585484 | 590118 |
| 10° | 177032 | 178273 | 180998 |
| 15° | 44036 | 44896 | 43507 |
| 20° | 13173 | 15260 | 13452 |
| 25° | 4643 | 5920 | 4705 |
| 30° | 1707 | 2246 | 1737 |
| 35° | 857 | 966 | 828 |
| 40° | 540 | 597 | 540 |
| 45° | 399 | 427 | 399 |
| 50° | 320 | 320 | 320 |
| 55° | 264 | 264 | 264 |
| 60° | 211 | 211 | 211 |
| 65° | 164 | 164 | 164 |
| 70° | 139 | 139 | 139 |
| 75° | 83 | 83 | 113 |
| 80° | 63 | 63 | 63 |
| 85° | 33 | 33 | 33 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 427 cd/sqm



TEST NUMBER: P757941

CATALOG NUMBER: LD6D05D010-EU6DR150210IC9035-6LBDP1B

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 427.0 | 64.9 |
| 10°-20° | 175.6 | 26.7 |
| 20°-30° | 34.9 | 5.3 |
| 30°-40° | 8.7 | 1.3 |
| 40°-50° | 4.6 | 0.7 |
| 50°-60° | 3.4 | 0.5 |
| 60°-70° | 2.4 | 0.4 |
| 70°-80° | 1.3 | 0.2 |
| 80°-90° | 0.4 | 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 |
| <hr/> | | |
| 0°-30° | 637.6 | 96.8 |
| 0°-40° | 646.3 | 98.2 |
| 0°-60° | 654.3 | 99.4 |
| 0°-90° | 658.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 658.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 8971 | 8971 | 8971 | 8971 | 8971 | |
| 5° | 5837 | 5777 | 5761 | 5801 | 5807 | 426 |
| 15° | 507 | 516 | 517 | 508 | 501 | 174 |
| 25° | 60 | 68 | 76 | 67 | 60 | 31 |
| 35° | 12 | 12 | 13 | 12 | 11 | 8 |
| 45° | 6 | 6 | 6 | 6 | 6 | 4 |
| 55° | 4 | 4 | 4 | 4 | 4 | 3 |
| 65° | 2 | 2 | 2 | 2 | 2 | 2 |
| 75° | 1 | 1 | 1 | 1 | 2 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P757941

CATALOG NUMBER: LD6D05D010-EU6DR150210IC9035-6LBDP1B

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 8970.8 | 8970.8 | 8970.8 | 8970.8 | 8970.8 |
| 2.5° | 8092.0 | 8098.8 | 8101.5 | 8109.5 | 8139.1 |
| 5° | 5836.6 | 5776.6 | 5761.0 | 5800.9 | 5806.6 |
| 7.5° | 3457.4 | 3469.5 | 3514.0 | 3523.8 | 3488.1 |
| 10° | 1897.3 | 1912.9 | 1910.6 | 1924.3 | 1939.8 |
| 12.5° | 970.3 | 958.1 | 954.3 | 969.9 | 948.3 |
| 15° | 507.0 | 516.5 | 516.9 | 507.7 | 500.9 |
| 17.5° | 272.7 | 283.7 | 301.9 | 287.1 | 264.3 |
| 20° | 161.0 | 170.9 | 186.5 | 174.3 | 164.4 |
| 22.5° | 99.5 | 107.5 | 118.5 | 109.0 | 101.0 |
| 25° | 59.6 | 67.6 | 76.0 | 67.2 | 60.4 |
| 27.5° | 35.3 | 42.2 | 47.5 | 41.8 | 34.9 |
| 30° | 22.8 | 26.6 | 30.0 | 26.2 | 23.2 |
| 32.5° | 16.0 | 17.5 | 19.0 | 17.5 | 16.0 |
| 35° | 11.8 | 12.5 | 13.3 | 12.5 | 11.4 |
| 37.5° | 9.1 | 9.9 | 10.3 | 9.5 | 8.7 |
| 40° | 7.6 | 8.0 | 8.4 | 8.0 | 7.6 |
| 42.5° | 6.5 | 6.8 | 6.8 | 6.8 | 6.5 |
| 45° | 5.7 | 5.7 | 6.1 | 5.7 | 5.7 |
| 47.5° | 4.9 | 4.9 | 5.3 | 4.9 | 4.9 |
| 50° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| 52.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 55° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 57.5° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 60° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 62.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 65° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 67.5° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 70° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 72.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 75° | 1.1 | 1.1 | 1.1 | 1.1 | 1.5 |
| 77.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 80° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 82.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 85° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)