

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: P770363

Luminaire Tested: LD6D70BD010-EU6DR3570959027-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P770363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD6D70BD010-EU6DR3570959027-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6477.7 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

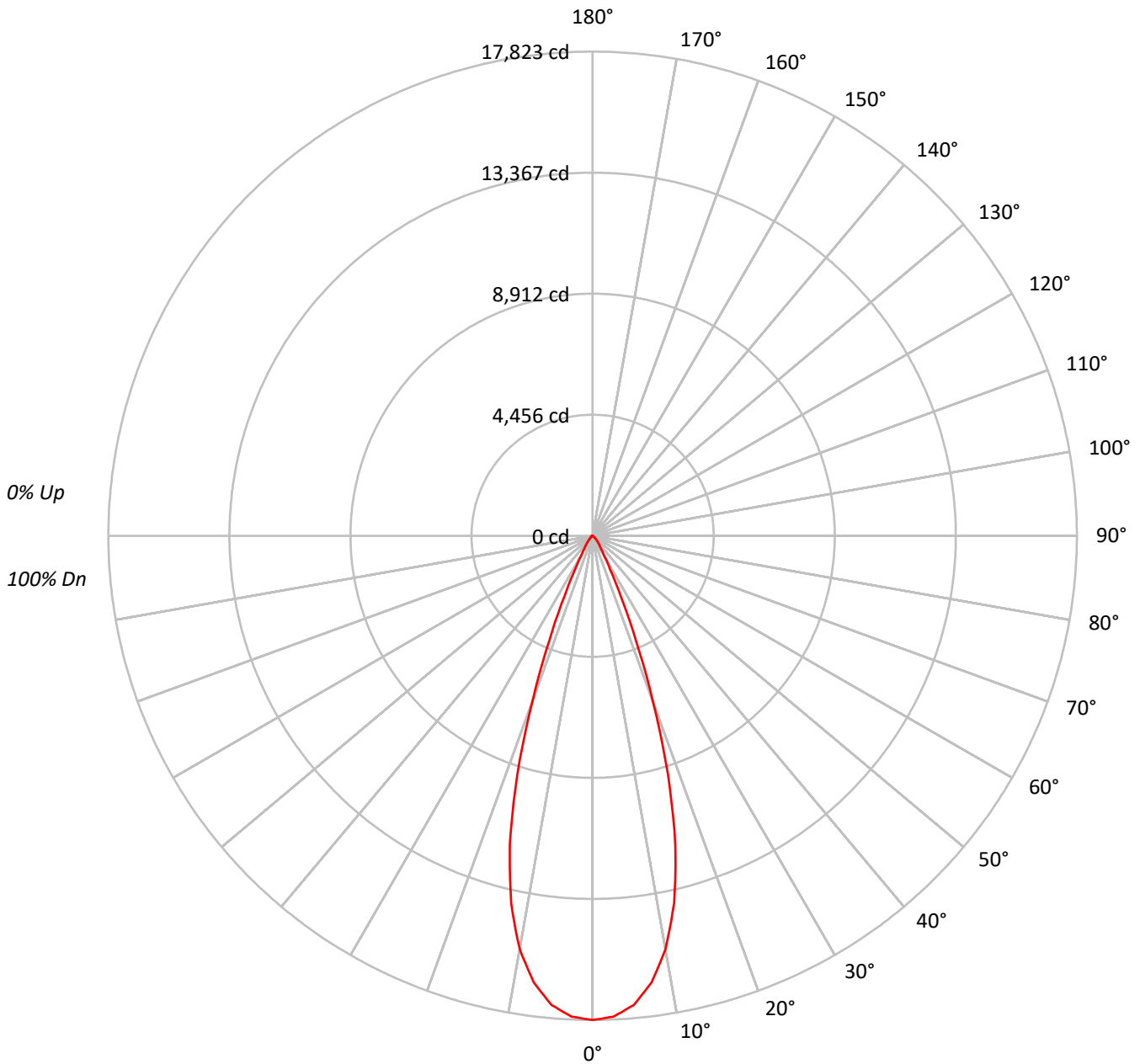
Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 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 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 103 | 101 | 100 | 99 | 98 | 98 | 96 | | | |
| 2 | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 99 | 102 | 99 | 97 | 99 | 97 | 95 | 96 | 95 | 93 | 92 | | | |
| 3 | 106 | 101 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 95 | 92 | 95 | 93 | 91 | 93 | 91 | 89 | 88 | | | |
| 4 | 103 | 97 | 92 | 89 | 101 | 96 | 92 | 89 | 94 | 90 | 88 | 92 | 89 | 87 | 90 | 88 | 86 | 84 | | | |
| 5 | 99 | 93 | 88 | 85 | 98 | 92 | 87 | 84 | 90 | 86 | 84 | 89 | 85 | 83 | 87 | 84 | 82 | 81 | | | |
| 6 | 96 | 89 | 84 | 81 | 94 | 88 | 84 | 81 | 87 | 83 | 80 | 85 | 82 | 80 | 84 | 81 | 79 | 78 | | | |
| 7 | 93 | 85 | 81 | 78 | 91 | 85 | 80 | 77 | 84 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 76 | 75 | | | |
| 8 | 90 | 82 | 78 | 74 | 88 | 82 | 77 | 74 | 81 | 77 | 74 | 80 | 76 | 74 | 79 | 76 | 73 | 72 | | | |
| 9 | 87 | 79 | 75 | 72 | 86 | 79 | 75 | 72 | 78 | 74 | 71 | 77 | 74 | 71 | 77 | 73 | 71 | 70 | | | |
| 10 | 84 | 77 | 72 | 69 | 83 | 76 | 72 | 69 | 76 | 72 | 69 | 75 | 71 | 69 | 74 | 71 | 69 | 68 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1947376 |
| 5° | 1901621 |
| 10° | 1713865 |
| 15° | 1330233 |
| 20° | 754483 |
| 25° | 293530 |
| 30° | 109510 |
| 35° | 60022 |
| 40° | 39237 |
| 45° | 23873 |
| 50° | 15196 |
| 55° | 10744 |
| 60° | 7867 |
| 65° | 4266 |
| 70° | 319 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23873 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1594.6 | 24.6 |
| 10°-20° | 3113.4 | 48.1 |
| 20°-30° | 1269.7 | 19.6 |
| 30°-40° | 303.9 | 4.7 |
| 40°-50° | 126.6 | 2.0 |
| 50°-60° | 52.4 | 0.8 |
| 60°-70° | 16.4 | 0.3 |
| 70°-80° | 0.4 | 0.0 |
| 80°-90° | 0.3 | 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° | 5977.7 | 92.3 |
| 0°-40° | 6281.5 | 97.0 |
| 0°-60° | 6460.6 | 99.7 |
| 0°-90° | 6477.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6477.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 17823 | |
| 5° | 17338 | ### |
| 15° | 11760 | 3113 |
| 25° | 2435 | 1270 |
| 35° | 450 | 304 |
| 45° | 154 | 127 |
| 55° | 56 | 52 |
| 65° | 16 | 16 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 17823.2 |
| 2.5° | 17716.3 |
| 5° | 17338.2 |
| 7.5° | 16583.9 |
| 10° | 15447.7 |
| 12.5° | 13847.8 |
| 15° | 11760.0 |
| 17.5° | 9206.6 |
| 20° | 6488.9 |
| 22.5° | 4137.7 |
| 25° | 2434.8 |
| 27.5° | 1376.3 |
| 30° | 868.0 |
| 32.5° | 609.4 |
| 35° | 450.0 |
| 37.5° | 348.0 |
| 40° | 275.1 |
| 42.5° | 211.9 |
| 45° | 154.5 |
| 47.5° | 115.7 |
| 50° | 89.4 |
| 52.5° | 71.0 |
| 55° | 56.4 |
| 57.5° | 45.7 |
| 60° | 36.0 |
| 62.5° | 26.2 |
| 65° | 16.5 |
| 67.5° | 5.8 |
| 70° | 1.0 |
| 72.5° | 1.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 1.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 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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— 0°-180°

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