

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



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: P790192

Luminaire Tested: LER6D20D010-EC6DR3020359030-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790192
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: LER6D20D010-EC6DR3020359030-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3268.5 lumens
Efficiency: N/A
Efficacy: 141.5 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

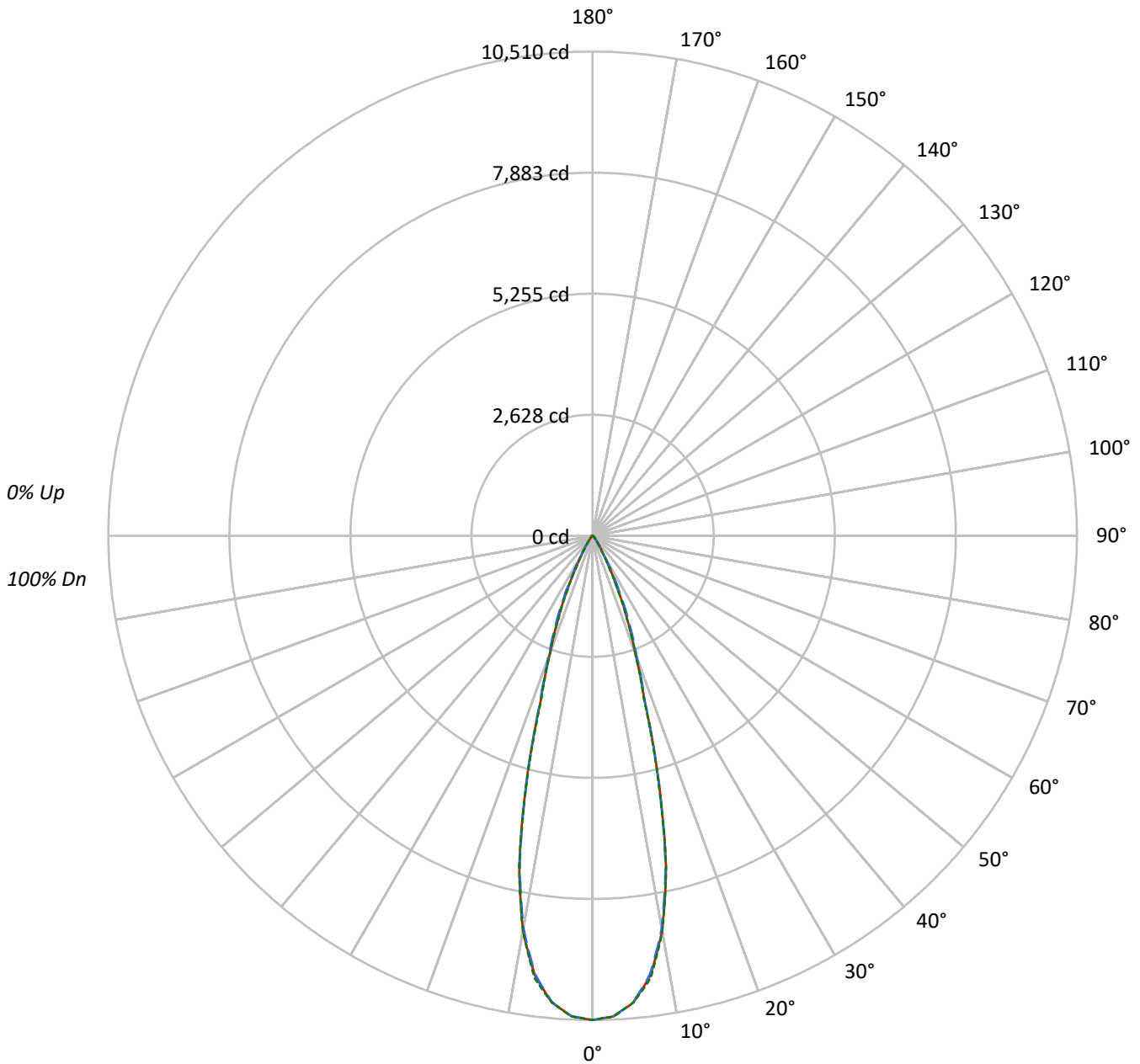
Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





TEST NUMBER: P790192

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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 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | 100 | | | | | | | | | | | | | |
| 1 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | | | | | | 96 | | | | | | | | | | | | | |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | | | | | | 92 | | | | | | | | | | | | | |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | | | | | | 89 | | | | | | | | | | | | | |
| 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | | | | | | 85 | | | | | | | | | | | | | |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 86 | 84 | 88 | 86 | 83 | 82 | | | | | | 82 | | | | | | | | | | | | | |
| 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | | | | | | 79 | | | | | | | | | | | | | |
| 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | | | | | | 77 | | | | | | | | | | | | | |
| 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | | | | | | 74 | | | | | | | | | | | | | |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | | | | | | 72 | | | | | | | | | | | | | |
| 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | | | | | | 69 | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 804463 | 804463 | 804463 |
| 5° | 781374 | 780459 | 781412 |
| 10° | 676783 | 672011 | 676628 |
| 15° | 441569 | 439199 | 436989 |
| 20° | 219572 | 227807 | 219279 |
| 25° | 110604 | 124725 | 108341 |
| 30° | 44281 | 48249 | 38580 |
| 35° | 20539 | 19670 | 16493 |
| 40° | 8873 | 9852 | 8353 |
| 45° | 6257 | 7761 | 6311 |
| 50° | 2155 | 5656 | 2274 |
| 55° | 1241 | 2335 | 1308 |
| 60° | 873 | 1026 | 873 |
| 65° | 561 | 561 | 561 |
| 70° | 336 | 224 | 336 |
| 75° | 0 | 148 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7761 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 924.2 | 28.3 |
| 10°-20° | 1488.4 | 45.5 |
| 20°-30° | 643.2 | 19.7 |
| 30°-40° | 146.6 | 4.5 |
| 40°-50° | 50.3 | 1.5 |
| 50°-60° | 12.3 | 0.4 |
| 60°-70° | 3.2 | 0.1 |
| 70°-80° | 0.3 | 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° | 3055.8 | 93.5 |
| 0°-40° | 3202.4 | 98.0 |
| 0°-60° | 3265.0 | 99.9 |
| 0°-90° | 3268.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3268.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 10510 | 10510 | 10510 | 10510 | 10510 | |
| 5° | 10169 | 10160 | 10158 | 10179 | 10170 | 925 |
| 15° | 5572 | 5505 | 5542 | 5524 | 5514 | 1492 |
| 25° | 1310 | 1359 | 1477 | 1325 | 1283 | 627 |
| 35° | 220 | 224 | 210 | 209 | 176 | 149 |
| 45° | 58 | 72 | 72 | 72 | 58 | 41 |
| 55° | 9 | 10 | 18 | 10 | 10 | 9 |
| 65° | 3 | 3 | 3 | 3 | 3 | 3 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 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° | 10509.9 | 10509.9 | 10509.9 | 10509.9 | 10509.9 |
| 2.5° | 10440.3 | 10433.0 | 10437.2 | 10442.3 | 10444.4 |
| 5° | 10169.4 | 10159.6 | 10157.5 | 10178.7 | 10169.9 |
| 7.5° | 9622.9 | 9609.0 | 9587.8 | 9635.8 | 9680.7 |
| 10° | 8707.5 | 8692.1 | 8646.1 | 8668.8 | 8705.5 |
| 12.5° | 7356.1 | 7306.1 | 7305.0 | 7377.3 | 7367.5 |
| 15° | 5572.3 | 5505.2 | 5542.4 | 5524.3 | 5514.5 |
| 17.5° | 3747.2 | 3721.4 | 3770.9 | 3756.0 | 3691.5 |
| 20° | 2695.6 | 2702.3 | 2796.7 | 2749.3 | 2692.0 |
| 22.5° | 1967.0 | 1991.3 | 2103.2 | 1980.9 | 1936.0 |
| 25° | 1309.6 | 1359.1 | 1476.8 | 1324.6 | 1282.8 |
| 27.5° | 805.5 | 828.2 | 947.4 | 795.2 | 772.5 |
| 30° | 501.0 | 489.7 | 545.9 | 468.5 | 436.5 |
| 32.5° | 328.7 | 314.2 | 332.3 | 298.2 | 272.4 |
| 35° | 219.8 | 224.5 | 210.5 | 209.0 | 176.5 |
| 37.5° | 137.3 | 157.9 | 139.3 | 148.6 | 113.5 |
| 40° | 88.8 | 114.6 | 98.6 | 108.9 | 83.6 |
| 42.5° | 72.8 | 88.2 | 81.0 | 86.2 | 74.3 |
| 45° | 57.8 | 71.7 | 71.7 | 71.7 | 58.3 |
| 47.5° | 32.0 | 48.0 | 61.4 | 49.0 | 34.1 |
| 50° | 18.1 | 24.3 | 47.5 | 25.3 | 19.1 |
| 52.5° | 12.4 | 13.9 | 32.5 | 14.4 | 12.9 |
| 55° | 9.3 | 9.8 | 17.5 | 10.3 | 9.8 |
| 57.5° | 7.2 | 7.7 | 9.3 | 7.7 | 7.2 |
| 60° | 5.7 | 5.7 | 6.7 | 6.2 | 5.7 |
| 62.5° | 4.1 | 4.1 | 4.6 | 4.1 | 4.1 |
| 65° | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| 67.5° | 1.5 | 2.1 | 2.1 | 2.1 | 2.1 |
| 70° | 1.5 | 1.0 | 1.0 | 1.0 | 1.5 |
| 72.5° | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 |
| 75° | 0.0 | 0.0 | 0.5 | 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 |

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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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