

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: P792795

Luminaire Tested: LER6D45BD010-EC6DR3040509035-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792795
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: LER6D45BD010-EC6DR3040509035-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4775.8 lumens
Efficiency: N/A
Efficacy: 123.4 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

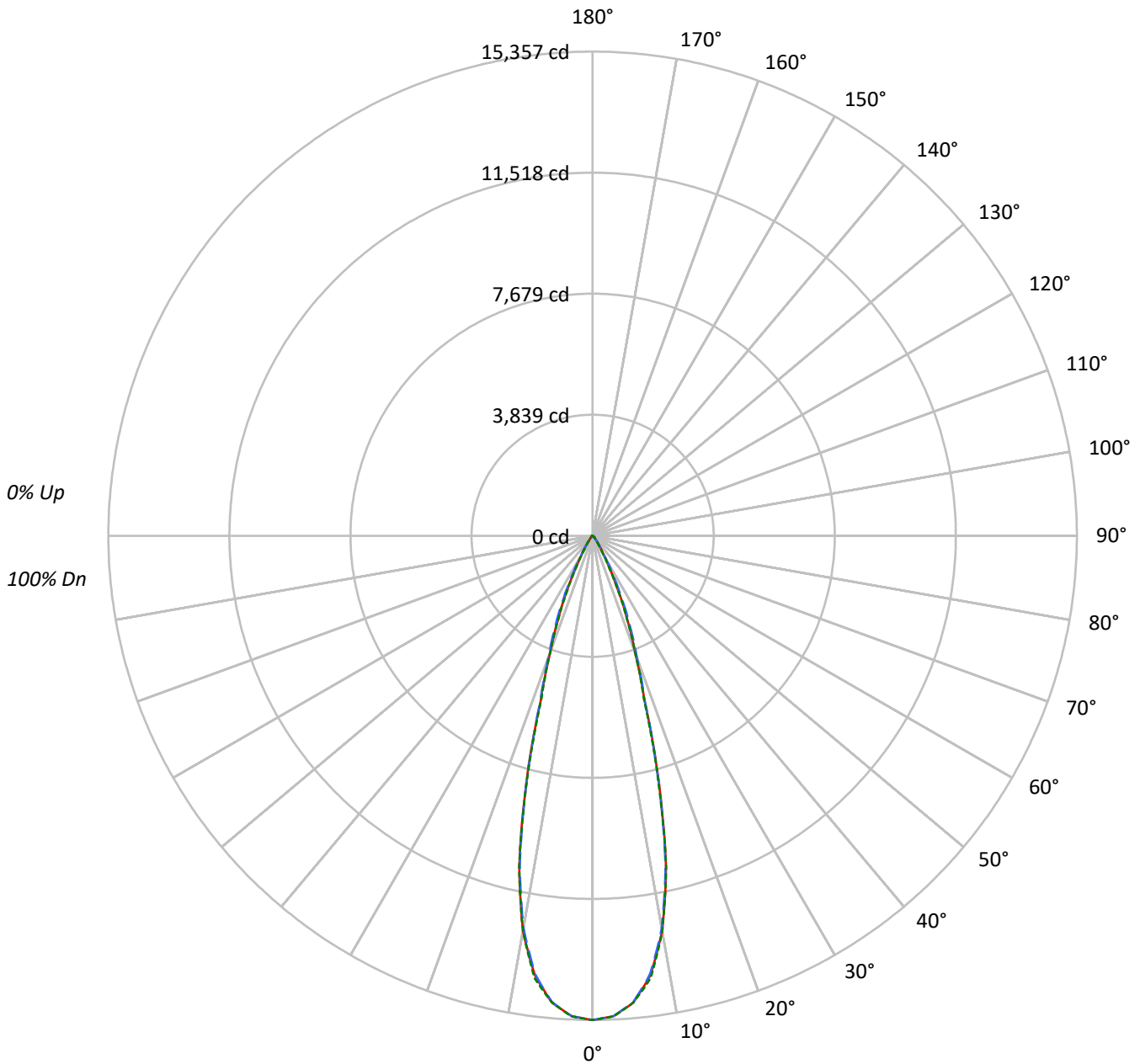
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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° | 1175446 | 1175446 | 1175446 |
| 5° | 1141703 | 1140366 | 1141757 |
| 10° | 988885 | 981913 | 988652 |
| 15° | 645201 | 641730 | 638505 |
| 20° | 320830 | 332861 | 320398 |
| 25° | 161607 | 182240 | 158296 |
| 30° | 64706 | 70504 | 56372 |
| 35° | 30014 | 28743 | 24099 |
| 40° | 12960 | 14389 | 12200 |
| 45° | 9136 | 11344 | 9223 |
| 50° | 3144 | 8264 | 3322 |
| 55° | 1815 | 3416 | 1908 |
| 60° | 1271 | 1500 | 1271 |
| 65° | 815 | 815 | 815 |
| 70° | 515 | 336 | 515 |
| 75° | 0 | 237 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11344 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1350.4 | 28.3 |
| 10°-20° | 2174.8 | 45.5 |
| 20°-30° | 939.8 | 19.7 |
| 30°-40° | 214.2 | 4.5 |
| 40°-50° | 73.5 | 1.5 |
| 50°-60° | 18.0 | 0.4 |
| 60°-70° | 4.6 | 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° | 4465.0 | 93.5 |
| 0°-40° | 4679.2 | 98.0 |
| 0°-60° | 4770.7 | 99.9 |
| 0°-90° | 4775.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4775.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 15357 | 15357 | 15357 | 15357 | 15357 | |
| 5° | 14859 | 14845 | 14842 | 14872 | 14860 | 1351 |
| 15° | 8142 | 8044 | 8098 | 8072 | 8058 | 2180 |
| 25° | 1914 | 1986 | 2158 | 1935 | 1874 | 916 |
| 35° | 321 | 328 | 308 | 305 | 258 | 218 |
| 45° | 84 | 105 | 105 | 105 | 85 | 60 |
| 55° | 14 | 14 | 26 | 15 | 14 | 13 |
| 65° | 4 | 4 | 4 | 4 | 4 | 4 |
| 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° | 15356.6 | 15356.6 | 15356.6 | 15356.6 | 15356.6 |
| 2.5° | 15254.8 | 15244.2 | 15250.3 | 15257.8 | 15260.8 |
| 5° | 14859.0 | 14844.6 | 14841.6 | 14872.5 | 14859.7 |
| 7.5° | 14060.5 | 14040.2 | 14009.3 | 14079.4 | 14145.0 |
| 10° | 12723.0 | 12700.4 | 12633.3 | 12666.5 | 12720.0 |
| 12.5° | 10748.4 | 10675.3 | 10673.8 | 10779.3 | 10765.0 |
| 15° | 8142.0 | 8044.0 | 8098.2 | 8071.9 | 8057.5 |
| 17.5° | 5475.2 | 5437.5 | 5509.9 | 5488.0 | 5393.8 |
| 20° | 3938.7 | 3948.5 | 4086.4 | 4017.1 | 3933.4 |
| 22.5° | 2874.1 | 2909.5 | 3073.1 | 2894.4 | 2828.8 |
| 25° | 1913.5 | 1985.9 | 2157.8 | 1935.4 | 1874.3 |
| 27.5° | 1176.9 | 1210.1 | 1384.3 | 1161.8 | 1128.7 |
| 30° | 732.1 | 715.5 | 797.7 | 684.6 | 637.8 |
| 32.5° | 480.3 | 459.2 | 485.5 | 435.8 | 398.1 |
| 35° | 321.2 | 328.0 | 307.6 | 305.4 | 257.9 |
| 37.5° | 200.6 | 230.7 | 203.6 | 217.1 | 165.9 |
| 40° | 129.7 | 167.4 | 144.0 | 159.1 | 122.1 |
| 42.5° | 106.3 | 128.9 | 118.4 | 125.9 | 108.6 |
| 45° | 84.4 | 104.8 | 104.8 | 104.8 | 85.2 |
| 47.5° | 46.7 | 70.1 | 89.7 | 71.6 | 49.8 |
| 50° | 26.4 | 35.4 | 69.4 | 36.9 | 27.9 |
| 52.5° | 18.1 | 20.4 | 47.5 | 21.1 | 18.8 |
| 55° | 13.6 | 14.3 | 25.6 | 15.1 | 14.3 |
| 57.5° | 10.6 | 11.3 | 13.6 | 11.3 | 10.6 |
| 60° | 8.3 | 8.3 | 9.8 | 9.0 | 8.3 |
| 62.5° | 6.0 | 6.0 | 6.8 | 6.0 | 6.0 |
| 65° | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 67.5° | 2.3 | 3.0 | 3.0 | 3.0 | 3.0 |
| 70° | 2.3 | 1.5 | 1.5 | 1.5 | 2.3 |
| 72.5° | 1.5 | 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 |

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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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