

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P837908

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6LO-40-120-EDD**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08  
Report Number: P837908  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 5/21/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-6LO-40-120-EDD  
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and  
RFI grid  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

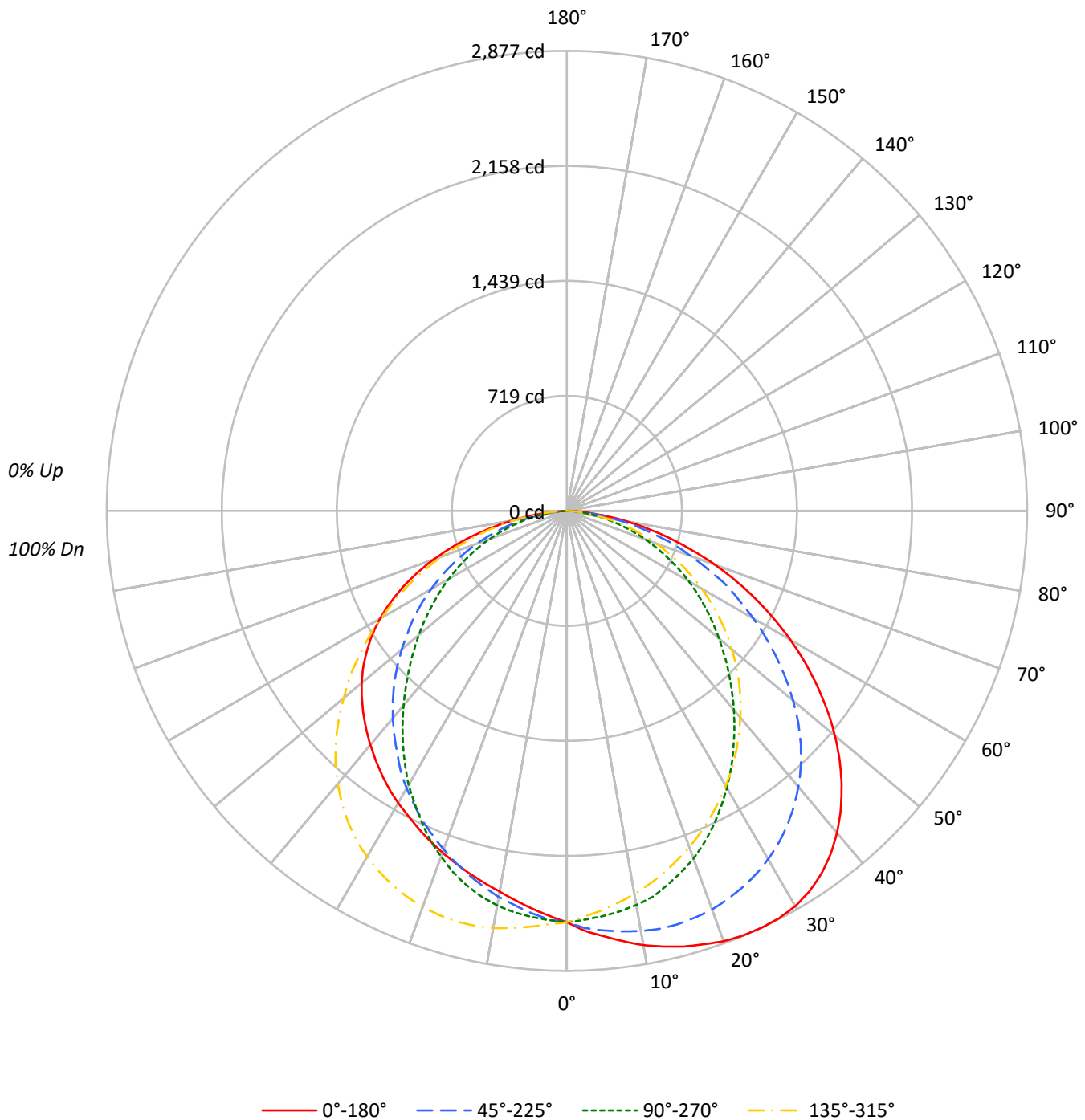
Lumens per Lamp: N/A  
Luminaire Lumens: 7547.0 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.2  
Input Voltage (V): 120  
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: 25 FT

TEST NUMBER: P837908

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### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 94  | 91  | 89  |  | 90  |
| 2   | 99  | 91  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  |  | 82  | 77  | 73  |  | 79  |
| 3   | 90  | 79  | 71  | 65  | 88  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  |  | 64  | 58  | 53  |  | 62  |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 59  | 52  | 46  |  | 57  | 51  | 46  |  | 56  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  |  | 52  | 45  | 40  |  | 50  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  |  | 47  | 40  | 35  |  | 46  |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  |  | 43  | 37  | 32  |  | 42  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  |  | 40  | 33  | 28  |  | 39  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  |  | 37  | 30  | 26  |  | 36  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 6922 | 6922 | 6922 | 6922 |
| 5°  | 7215 | 6873 | 6743 | 6884 |
| 10° | 7536 | 6837 | 6606 | 6847 |
| 15° | 7858 | 6750 | 6541 | 6752 |
| 20° | 8202 | 6628 | 6513 | 6590 |
| 25° | 8541 | 6442 | 6512 | 6377 |
| 30° | 8871 | 6218 | 6556 | 6149 |
| 35° | 9107 | 5963 | 6621 | 5868 |
| 40° | 9228 | 5706 | 6713 | 5577 |
| 45° | 9246 | 5446 | 6844 | 5309 |
| 50° | 9159 | 5197 | 7011 | 5059 |
| 55° | 8969 | 4966 | 7167 | 4828 |
| 60° | 8687 | 4725 | 7263 | 4602 |
| 65° | 8299 | 4448 | 7225 | 4344 |
| 70° | 7752 | 4121 | 6969 | 4046 |
| 75° | 6975 | 3674 | 6394 | 3656 |
| 80° | 5914 | 3078 | 5374 | 3124 |
| 85° | 4113 | 2038 | 3409 | 2093 |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 244.2  | 3.2       |
| 10°-20°   | 707.2  | 9.4       |
| 20°-30°   | 1083.9 | 14.4      |
| 30°-40°   | 1317.9 | 17.5      |
| 40°-50°   | 1370.0 | 18.2      |
| 50°-60°   | 1237.6 | 16.4      |
| 60°-70°   | 940.9  | 12.5      |
| 70°-80°   | 524.5  | 6.9       |
| 80°-90°   | 120.8  | 1.6       |
| 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°    | 2035.4 | 27.0      |
| 0°-40°    | 3353.3 | 44.4      |
| 0°-60°    | 5960.9 | 79.0      |
| 0°-90°    | 7547.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7547.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2572 | 2572 | 2572 | 2572 | 2572 |      |
| 5°  | 2671 | 2544 | 2496 | 2548 | 2671 | 258  |
| 15° | 2821 | 2423 | 2348 | 2424 | 2821 | 800  |
| 25° | 2877 | 2170 | 2193 | 2148 | 2877 | 1329 |
| 35° | 2772 | 1815 | 2016 | 1786 | 2772 | 1731 |
| 45° | 2430 | 1431 | 1798 | 1395 | 2430 | 1871 |
| 55° | 1912 | 1058 | 1528 | 1029 | 1912 | 1707 |
| 65° | 1303 | 698  | 1135 | 682  | 1303 | 1288 |
| 75° | 671  | 353  | 615  | 352  | 671  | 713  |
| 85° | 133  | 66   | 110  | 68   | 133  | 168  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 |
| 2.5°  | 2629.4 | 2591.0 | 2591.6 | 2625.2 | 2599.4 | 2612.0 | 2576.0 | 2589.8 | 2585.6 | 2588.6 | 2559.2 |
| 5°    | 2670.8 | 2629.4 | 2628.8 | 2657.6 | 2628.8 | 2634.2 | 2588.6 | 2597.6 | 2584.4 | 2576.0 | 2544.2 |
| 7.5°  | 2714.6 | 2673.2 | 2669.0 | 2694.2 | 2656.4 | 2652.2 | 2601.8 | 2601.8 | 2577.8 | 2556.8 | 2526.8 |
| 10°   | 2757.8 | 2715.2 | 2709.8 | 2729.0 | 2682.2 | 2668.4 | 2607.2 | 2597.6 | 2565.8 | 2534.6 | 2502.2 |
| 12.5° | 2790.2 | 2747.0 | 2742.8 | 2754.8 | 2702.0 | 2676.8 | 2607.2 | 2588.6 | 2541.8 | 2498.0 | 2472.8 |
| 15°   | 2820.8 | 2776.4 | 2765.0 | 2771.0 | 2710.4 | 2676.8 | 2598.8 | 2570.0 | 2510.0 | 2452.4 | 2423.0 |
| 17.5° | 2842.4 | 2799.8 | 2788.4 | 2787.8 | 2714.6 | 2666.6 | 2580.8 | 2541.2 | 2469.2 | 2399.6 | 2370.2 |
| 20°   | 2864.0 | 2821.4 | 2807.0 | 2796.2 | 2713.4 | 2652.8 | 2554.4 | 2501.0 | 2417.0 | 2339.0 | 2314.4 |
| 22.5° | 2874.8 | 2831.0 | 2815.4 | 2799.2 | 2705.6 | 2627.6 | 2522.0 | 2454.2 | 2358.2 | 2265.2 | 2244.8 |
| 25°   | 2876.6 | 2831.6 | 2814.8 | 2791.4 | 2690.0 | 2597.6 | 2480.0 | 2397.8 | 2290.4 | 2187.2 | 2169.8 |
| 27.5° | 2871.8 | 2822.6 | 2805.8 | 2777.6 | 2666.6 | 2561.0 | 2430.2 | 2333.6 | 2218.4 | 2104.4 | 2085.8 |
| 30°   | 2855.0 | 2805.2 | 2789.0 | 2752.4 | 2633.6 | 2516.0 | 2375.6 | 2262.2 | 2138.6 | 2017.4 | 2001.2 |
| 32.5° | 2821.4 | 2772.8 | 2759.6 | 2723.0 | 2597.6 | 2463.8 | 2312.0 | 2185.4 | 2050.4 | 1934.5 | 1910.5 |
| 35°   | 2772.2 | 2723.6 | 2715.2 | 2676.8 | 2547.2 | 2401.4 | 2242.4 | 2101.4 | 1956.7 | 1838.5 | 1815.1 |
| 37.5° | 2708.0 | 2667.2 | 2654.6 | 2616.8 | 2487.8 | 2330.6 | 2162.6 | 2010.2 | 1861.3 | 1734.1 | 1719.7 |
| 40°   | 2627.0 | 2588.6 | 2579.0 | 2545.4 | 2418.8 | 2252.0 | 2076.2 | 1915.9 | 1762.9 | 1644.7 | 1624.3 |
| 42.5° | 2534.6 | 2498.6 | 2493.2 | 2458.4 | 2333.6 | 2165.0 | 1982.5 | 1818.1 | 1660.3 | 1546.3 | 1525.9 |
| 45°   | 2429.6 | 2394.8 | 2393.6 | 2360.6 | 2240.6 | 2068.4 | 1884.1 | 1719.1 | 1560.1 | 1441.9 | 1431.1 |
| 47.5° | 2313.8 | 2282.6 | 2282.6 | 2252.0 | 2136.8 | 1962.1 | 1782.7 | 1615.9 | 1459.3 | 1354.9 | 1335.7 |
| 50°   | 2187.8 | 2158.4 | 2149.4 | 2134.4 | 2022.2 | 1846.3 | 1675.9 | 1515.1 | 1359.7 | 1260.1 | 1241.5 |
| 52.5° | 2053.4 | 2028.2 | 2034.2 | 2006.6 | 1897.9 | 1725.7 | 1567.9 | 1401.7 | 1259.5 | 1168.9 | 1150.3 |
| 55°   | 1911.7 | 1875.7 | 1881.1 | 1870.9 | 1768.3 | 1601.5 | 1446.7 | 1308.1 | 1161.1 | 1075.9 | 1058.5 |
| 57.5° | 1764.7 | 1717.9 | 1737.1 | 1731.1 | 1630.3 | 1474.3 | 1335.7 | 1201.9 | 1063.3 | 984.7  | 967.9  |
| 60°   | 1614.1 | 1569.1 | 1588.9 | 1583.5 | 1488.7 | 1347.1 | 1221.1 | 1096.9 | 966.1  | 894.7  | 877.9  |
| 62.5° | 1459.3 | 1417.9 | 1435.9 | 1431.7 | 1344.7 | 1216.9 | 1107.1 | 993.1  | 868.3  | 804.1  | 788.5  |
| 65°   | 1303.3 | 1263.7 | 1279.9 | 1276.9 | 1196.5 | 1099.3 | 990.1  | 885.7  | 769.9  | 714.1  | 698.5  |
| 67.5° | 1143.7 | 1107.1 | 1122.1 | 1122.1 | 1048.3 | 955.3  | 872.5  | 777.1  | 673.3  | 625.2  | 610.8  |
| 70°   | 985.3  | 951.1  | 964.3  | 963.1  | 900.7  | 825.1  | 753.7  | 668.5  | 575.4  | 535.8  | 523.8  |
| 72.5° | 825.7  | 795.7  | 807.7  | 806.5  | 754.3  | 705.7  | 634.8  | 561.0  | 480.0  | 448.2  | 437.4  |
| 75°   | 670.9  | 642.6  | 654.0  | 652.8  | 610.2  | 564.6  | 517.2  | 456.0  | 386.4  | 364.2  | 353.4  |
| 77.5° | 523.2  | 494.4  | 504.0  | 504.0  | 472.8  | 439.8  | 402.0  | 354.6  | 305.4  | 281.4  | 273.6  |
| 80°   | 381.6  | 367.8  | 363.0  | 363.6  | 342.6  | 321.0  | 301.8  | 256.2  | 220.2  | 204.0  | 198.6  |
| 82.5° | 250.8  | 239.4  | 234.6  | 235.8  | 223.8  | 210.6  | 198.6  | 166.8  | 142.8  | 133.2  | 130.2  |
| 85°   | 133.2  | 124.8  | 120.6  | 123.6  | 121.2  | 114.0  | 108.0  | 86.4   | 71.4   | 67.8   | 66.0   |
| 87.5° | 42.0   | 36.6   | 33.6   | 44.4   | 37.8   | 33.6   | 32.4   | 25.8   | 19.8   | 19.8   | 19.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 |
| 2.5°  | 2568.8 | 2568.8 | 2545.4 | 2540.0 | 2537.6 | 2540.6 | 2517.2 | 2513.0 | 2546.6 | 2535.2 | 2509.4 |
| 5°    | 2548.4 | 2547.2 | 2514.2 | 2508.2 | 2508.2 | 2504.6 | 2478.2 | 2472.2 | 2505.8 | 2496.2 | 2468.0 |
| 7.5°  | 2523.2 | 2519.6 | 2480.6 | 2476.4 | 2470.4 | 2468.0 | 2438.6 | 2434.4 | 2463.2 | 2457.2 | 2430.8 |
| 10°   | 2492.6 | 2489.0 | 2442.8 | 2439.8 | 2433.2 | 2428.4 | 2400.8 | 2397.8 | 2427.2 | 2417.6 | 2396.6 |
| 12.5° | 2452.4 | 2445.8 | 2398.4 | 2395.4 | 2390.0 | 2388.2 | 2361.2 | 2360.0 | 2392.4 | 2382.8 | 2360.6 |
| 15°   | 2399.6 | 2394.2 | 2341.4 | 2342.6 | 2343.2 | 2343.2 | 2321.6 | 2320.4 | 2352.2 | 2348.0 | 2324.0 |
| 17.5° | 2341.4 | 2334.2 | 2283.8 | 2287.4 | 2291.6 | 2296.4 | 2279.6 | 2282.6 | 2316.2 | 2310.8 | 2289.2 |
| 20°   | 2275.4 | 2268.2 | 2219.0 | 2229.2 | 2238.2 | 2247.8 | 2237.0 | 2245.4 | 2276.6 | 2274.2 | 2258.0 |
| 22.5° | 2201.6 | 2194.4 | 2148.8 | 2164.4 | 2179.4 | 2197.4 | 2192.6 | 2202.2 | 2235.2 | 2234.6 | 2220.2 |
| 25°   | 2111.6 | 2113.4 | 2073.2 | 2092.4 | 2117.6 | 2142.8 | 2144.6 | 2160.2 | 2196.8 | 2193.2 | 2180.0 |
| 27.5° | 2027.6 | 2030.0 | 1987.3 | 2019.8 | 2053.4 | 2085.8 | 2093.6 | 2115.2 | 2152.4 | 2149.4 | 2138.0 |
| 30°   | 1939.3 | 1942.3 | 1900.9 | 1945.3 | 1986.1 | 2025.8 | 2042.6 | 2072.0 | 2109.8 | 2109.8 | 2097.8 |
| 32.5° | 1847.5 | 1852.9 | 1809.7 | 1869.1 | 1916.5 | 1962.7 | 1992.1 | 2022.8 | 2066.0 | 2064.8 | 2054.6 |
| 35°   | 1753.3 | 1759.3 | 1719.7 | 1795.3 | 1842.7 | 1899.1 | 1935.7 | 1976.5 | 2015.0 | 2015.6 | 2007.8 |
| 37.5° | 1657.3 | 1664.5 | 1628.5 | 1711.3 | 1765.3 | 1831.9 | 1878.7 | 1919.5 | 1962.1 | 1964.5 | 1957.3 |
| 40°   | 1561.9 | 1569.7 | 1538.5 | 1618.3 | 1686.7 | 1761.1 | 1815.1 | 1863.1 | 1909.9 | 1911.1 | 1906.3 |
| 42.5° | 1466.5 | 1474.9 | 1451.5 | 1529.5 | 1606.9 | 1686.7 | 1750.3 | 1804.9 | 1852.9 | 1855.9 | 1850.5 |
| 45°   | 1373.5 | 1380.7 | 1363.9 | 1449.1 | 1523.5 | 1610.5 | 1683.7 | 1745.5 | 1794.1 | 1798.3 | 1796.5 |
| 47.5° | 1281.1 | 1287.7 | 1272.7 | 1350.7 | 1436.5 | 1528.9 | 1613.5 | 1681.9 | 1733.5 | 1738.3 | 1737.1 |
| 50°   | 1190.5 | 1195.9 | 1179.7 | 1261.3 | 1346.5 | 1444.9 | 1533.1 | 1612.3 | 1669.9 | 1674.7 | 1674.1 |
| 52.5° | 1100.5 | 1105.9 | 1092.1 | 1177.9 | 1255.3 | 1359.1 | 1455.1 | 1540.9 | 1597.9 | 1605.1 | 1606.3 |
| 55°   | 1013.5 | 1015.9 | 1005.1 | 1087.3 | 1162.3 | 1270.9 | 1381.3 | 1464.7 | 1521.7 | 1527.7 | 1531.3 |
| 57.5° | 926.5  | 927.1  | 918.1  | 996.7  | 1068.7 | 1179.7 | 1295.5 | 1383.1 | 1437.1 | 1443.1 | 1448.5 |
| 60°   | 840.1  | 839.5  | 829.3  | 905.5  | 974.5  | 1084.3 | 1204.9 | 1291.9 | 1344.1 | 1349.5 | 1356.7 |
| 62.5° | 754.3  | 752.5  | 743.5  | 813.7  | 878.5  | 987.1  | 1108.3 | 1192.3 | 1242.1 | 1245.7 | 1255.3 |
| 65°   | 669.1  | 667.3  | 658.8  | 723.7  | 782.5  | 886.3  | 1005.1 | 1084.9 | 1129.9 | 1134.7 | 1132.9 |
| 67.5° | 585.0  | 581.4  | 574.8  | 633.0  | 686.5  | 782.5  | 896.5  | 972.7  | 1009.9 | 1014.1 | 1025.5 |
| 70°   | 501.0  | 496.8  | 481.8  | 543.6  | 590.4  | 676.3  | 782.5  | 850.3  | 881.5  | 885.7  | 883.9  |
| 72.5° | 418.2  | 414.0  | 397.8  | 454.8  | 494.4  | 569.4  | 664.2  | 720.7  | 747.7  | 751.3  | 751.3  |
| 75°   | 337.8  | 335.4  | 325.2  | 368.4  | 401.4  | 462.6  | 543.0  | 589.8  | 610.8  | 615.0  | 613.8  |
| 77.5° | 260.4  | 258.6  | 248.4  | 285.6  | 311.4  | 357.0  | 421.8  | 458.4  | 474.0  | 478.8  | 489.0  |
| 80°   | 186.6  | 186.0  | 169.8  | 206.4  | 217.8  | 256.2  | 303.6  | 331.8  | 340.2  | 346.8  | 354.0  |
| 82.5° | 119.4  | 120.0  | 103.8  | 135.0  | 139.8  | 164.4  | 193.8  | 211.2  | 217.2  | 222.6  | 228.0  |
| 85°   | 58.2   | 60.6   | 51.6   | 71.4   | 72.0   | 84.6   | 97.2   | 103.8  | 106.2  | 110.4  | 115.2  |
| 87.5° | 15.0   | 17.4   | 9.6    | 20.4   | 18.0   | 23.4   | 27.0   | 28.8   | 28.2   | 31.2   | 33.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 |
| 2.5°  | 2517.8 | 2537.0 | 2527.4 | 2558.6 | 2570.6 | 2551.4 | 2585.0 | 2585.6 | 2561.6 | 2589.8 | 2605.4 |
| 5°    | 2478.8 | 2498.6 | 2492.6 | 2525.0 | 2540.0 | 2523.2 | 2564.0 | 2571.8 | 2548.4 | 2580.2 | 2605.4 |
| 7.5°  | 2439.2 | 2462.6 | 2454.8 | 2487.8 | 2505.8 | 2492.6 | 2536.4 | 2549.0 | 2531.0 | 2565.8 | 2599.4 |
| 10°   | 2405.0 | 2424.8 | 2416.4 | 2451.2 | 2466.8 | 2456.0 | 2499.2 | 2522.6 | 2505.8 | 2548.4 | 2588.6 |
| 12.5° | 2371.4 | 2387.6 | 2378.0 | 2406.8 | 2421.8 | 2408.0 | 2460.8 | 2482.4 | 2470.4 | 2514.8 | 2566.4 |
| 15°   | 2328.2 | 2346.2 | 2333.0 | 2358.8 | 2370.2 | 2358.2 | 2401.4 | 2438.6 | 2423.6 | 2472.2 | 2529.2 |
| 17.5° | 2295.2 | 2305.4 | 2287.4 | 2307.8 | 2314.4 | 2298.2 | 2342.0 | 2378.6 | 2367.8 | 2420.6 | 2486.6 |
| 20°   | 2258.6 | 2267.0 | 2241.8 | 2253.2 | 2252.6 | 2232.2 | 2272.4 | 2308.4 | 2301.2 | 2359.4 | 2434.4 |
| 22.5° | 2217.8 | 2222.0 | 2192.6 | 2195.0 | 2193.8 | 2160.2 | 2196.2 | 2232.8 | 2229.8 | 2288.6 | 2372.6 |
| 25°   | 2174.6 | 2175.2 | 2137.4 | 2136.2 | 2123.0 | 2083.4 | 2115.2 | 2156.6 | 2147.6 | 2211.2 | 2299.4 |
| 27.5° | 2132.0 | 2126.0 | 2080.4 | 2069.6 | 2048.6 | 2001.2 | 2029.4 | 2066.6 | 2061.2 | 2123.6 | 2221.4 |
| 30°   | 2086.4 | 2078.6 | 2022.8 | 2003.0 | 1972.3 | 1917.7 | 1941.1 | 1975.9 | 1978.9 | 2033.6 | 2136.2 |
| 32.5° | 2043.2 | 2023.4 | 1961.5 | 1932.7 | 1894.3 | 1830.7 | 1843.3 | 1878.7 | 1883.5 | 1938.7 | 2044.4 |
| 35°   | 1987.3 | 1974.1 | 1897.9 | 1848.7 | 1810.9 | 1741.3 | 1754.5 | 1779.1 | 1786.3 | 1840.3 | 1947.7 |
| 37.5° | 1934.5 | 1913.5 | 1832.5 | 1772.5 | 1723.9 | 1650.7 | 1654.3 | 1679.5 | 1686.7 | 1741.3 | 1847.5 |
| 40°   | 1879.9 | 1849.9 | 1762.9 | 1692.7 | 1636.9 | 1560.1 | 1555.9 | 1582.3 | 1587.7 | 1641.1 | 1737.1 |
| 42.5° | 1821.7 | 1785.7 | 1687.9 | 1611.1 | 1546.9 | 1468.9 | 1460.5 | 1483.3 | 1489.3 | 1541.5 | 1635.7 |
| 45°   | 1762.9 | 1719.7 | 1611.1 | 1527.1 | 1456.9 | 1377.1 | 1368.7 | 1386.1 | 1395.1 | 1444.3 | 1534.9 |
| 47.5° | 1700.5 | 1650.1 | 1531.9 | 1438.3 | 1365.7 | 1285.9 | 1275.7 | 1293.1 | 1300.3 | 1348.9 | 1434.7 |
| 50°   | 1635.1 | 1573.9 | 1450.3 | 1347.1 | 1275.1 | 1196.5 | 1181.5 | 1201.9 | 1208.5 | 1254.1 | 1338.1 |
| 52.5° | 1563.1 | 1495.3 | 1363.3 | 1255.3 | 1183.3 | 1108.3 | 1090.3 | 1110.1 | 1117.9 | 1162.3 | 1239.7 |
| 55°   | 1486.9 | 1413.7 | 1275.7 | 1170.7 | 1092.7 | 1019.5 | 1004.5 | 1012.3 | 1029.1 | 1071.1 | 1143.1 |
| 57.5° | 1401.1 | 1328.5 | 1183.3 | 1076.5 | 1001.5 | 931.3  | 918.7  | 925.9  | 941.5  | 982.3  | 1047.1 |
| 60°   | 1309.9 | 1233.1 | 1089.1 | 982.3  | 909.7  | 843.1  | 831.7  | 838.3  | 855.1  | 892.3  | 952.3  |
| 62.5° | 1219.9 | 1133.5 | 991.9  | 885.7  | 819.7  | 757.9  | 754.9  | 752.5  | 768.1  | 804.1  | 856.9  |
| 65°   | 1110.7 | 1027.9 | 890.5  | 789.7  | 729.7  | 673.9  | 661.8  | 667.3  | 682.3  | 715.3  | 770.5  |
| 67.5° | 993.7  | 918.7  | 786.7  | 693.7  | 640.2  | 590.4  | 580.2  | 582.6  | 598.2  | 627.0  | 675.1  |
| 70°   | 869.5  | 803.5  | 680.5  | 597.0  | 552.0  | 505.2  | 498.6  | 499.2  | 514.2  | 539.4  | 581.4  |
| 72.5° | 739.3  | 679.9  | 573.0  | 501.6  | 464.4  | 430.8  | 424.8  | 417.6  | 431.4  | 453.0  | 489.0  |
| 75°   | 606.6  | 554.4  | 466.2  | 408.0  | 378.6  | 350.4  | 345.0  | 337.8  | 351.6  | 370.2  | 398.4  |
| 77.5° | 472.8  | 430.8  | 362.4  | 317.4  | 294.6  | 273.6  | 268.8  | 261.0  | 274.8  | 288.6  | 310.8  |
| 80°   | 342.0  | 311.4  | 270.6  | 223.2  | 215.4  | 201.6  | 196.8  | 188.4  | 201.6  | 210.6  | 227.4  |
| 82.5° | 220.8  | 200.4  | 177.0  | 144.0  | 142.8  | 132.6  | 130.2  | 120.6  | 132.6  | 138.0  | 150.6  |
| 85°   | 111.6  | 102.0  | 96.0   | 73.2   | 75.6   | 69.0   | 68.4   | 58.2   | 67.8   | 70.2   | 77.4   |
| 87.5° | 31.8   | 33.6   | 30.0   | 18.0   | 22.8   | 21.6   | 21.6   | 15.6   | 21.6   | 21.6   | 24.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837908

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6LO-40-120-EDD

**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 |
| 2.5°  | 2574.8 | 2585.0 | 2587.4 | 2586.8 | 2593.4 | 2629.4 | 2617.4 | 2629.4 |
| 5°    | 2580.8 | 2603.6 | 2609.6 | 2618.0 | 2628.8 | 2669.6 | 2656.4 | 2670.8 |
| 7.5°  | 2584.4 | 2618.6 | 2631.8 | 2648.0 | 2665.4 | 2711.0 | 2700.2 | 2714.6 |
| 10°   | 2584.4 | 2628.8 | 2648.0 | 2675.0 | 2698.4 | 2751.2 | 2741.0 | 2757.8 |
| 12.5° | 2573.6 | 2630.6 | 2657.6 | 2695.4 | 2725.4 | 2782.4 | 2778.2 | 2790.2 |
| 15°   | 2551.4 | 2621.6 | 2658.8 | 2707.4 | 2744.6 | 2808.2 | 2806.4 | 2820.8 |
| 17.5° | 2521.4 | 2606.0 | 2651.0 | 2712.2 | 2759.0 | 2830.4 | 2834.6 | 2842.4 |
| 20°   | 2483.6 | 2576.6 | 2635.4 | 2710.4 | 2769.2 | 2847.8 | 2853.2 | 2864.0 |
| 22.5° | 2433.8 | 2541.2 | 2612.0 | 2702.6 | 2770.4 | 2855.0 | 2864.6 | 2874.8 |
| 25°   | 2375.0 | 2498.6 | 2581.4 | 2687.6 | 2764.4 | 2854.4 | 2867.6 | 2876.6 |
| 27.5° | 2307.8 | 2443.4 | 2542.4 | 2663.6 | 2747.6 | 2844.8 | 2861.0 | 2871.8 |
| 30°   | 2229.8 | 2384.6 | 2498.0 | 2632.4 | 2724.8 | 2826.8 | 2844.2 | 2855.0 |
| 32.5° | 2149.4 | 2319.8 | 2445.2 | 2592.2 | 2691.8 | 2798.0 | 2813.0 | 2821.4 |
| 35°   | 2061.8 | 2241.2 | 2381.6 | 2540.6 | 2649.2 | 2751.8 | 2763.2 | 2772.2 |
| 37.5° | 1966.3 | 2156.0 | 2309.0 | 2482.4 | 2589.2 | 2687.6 | 2697.8 | 2708.0 |
| 40°   | 1867.9 | 2066.6 | 2227.4 | 2411.0 | 2517.8 | 2609.0 | 2619.8 | 2627.0 |
| 42.5° | 1768.9 | 1967.5 | 2140.4 | 2327.0 | 2433.2 | 2520.8 | 2527.4 | 2534.6 |
| 45°   | 1668.7 | 1864.9 | 2042.6 | 2234.0 | 2339.0 | 2421.2 | 2423.6 | 2429.6 |
| 47.5° | 1566.7 | 1758.7 | 1935.1 | 2127.8 | 2231.6 | 2306.6 | 2309.0 | 2313.8 |
| 50°   | 1464.1 | 1652.5 | 1820.5 | 2013.2 | 2114.6 | 2193.8 | 2183.0 | 2187.8 |
| 52.5° | 1363.3 | 1540.9 | 1712.5 | 1889.5 | 1989.7 | 2060.0 | 2063.0 | 2053.4 |
| 55°   | 1264.3 | 1431.7 | 1589.5 | 1759.9 | 1855.3 | 1909.9 | 1908.1 | 1911.7 |
| 57.5° | 1164.1 | 1321.3 | 1465.9 | 1621.9 | 1714.9 | 1766.5 | 1777.3 | 1764.7 |
| 60°   | 1062.1 | 1209.7 | 1339.3 | 1480.3 | 1570.3 | 1613.5 | 1626.1 | 1614.1 |
| 62.5° | 960.7  | 1096.3 | 1213.9 | 1336.9 | 1420.3 | 1473.7 | 1472.5 | 1459.3 |
| 65°   | 859.3  | 982.3  | 1087.3 | 1191.7 | 1264.3 | 1317.7 | 1315.3 | 1303.3 |
| 67.5° | 765.7  | 867.1  | 961.3  | 1045.9 | 1108.9 | 1145.5 | 1158.1 | 1143.7 |
| 70°   | 662.4  | 750.1  | 832.9  | 900.7  | 952.9  | 985.9  | 997.9  | 985.3  |
| 72.5° | 559.2  | 633.6  | 691.9  | 757.3  | 797.5  | 825.1  | 837.7  | 825.7  |
| 75°   | 457.2  | 518.4  | 565.8  | 616.8  | 645.0  | 668.5  | 682.9  | 670.9  |
| 77.5° | 358.2  | 405.6  | 443.4  | 480.6  | 513.0  | 518.4  | 531.0  | 523.2  |
| 80°   | 264.0  | 298.2  | 325.8  | 350.4  | 373.8  | 376.2  | 386.4  | 381.6  |
| 82.5° | 175.8  | 198.6  | 205.8  | 231.6  | 246.6  | 244.2  | 254.4  | 250.8  |
| 85°   | 93.0   | 106.8  | 119.4  | 127.2  | 135.6  | 127.8  | 136.8  | 133.2  |
| 87.5° | 31.2   | 33.0   | 28.8   | 40.8   | 45.0   | 38.4   | 43.8   | 42.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)