

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: HALO COMMERCIAL

Report Number: P776741

Luminaire Tested: HCDJBS4050CSD-HCD6TSQMW-5000lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS4050CSD-HCD6TSQMW-5000lm-3000K
Description: 6 INCH SQUARE MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

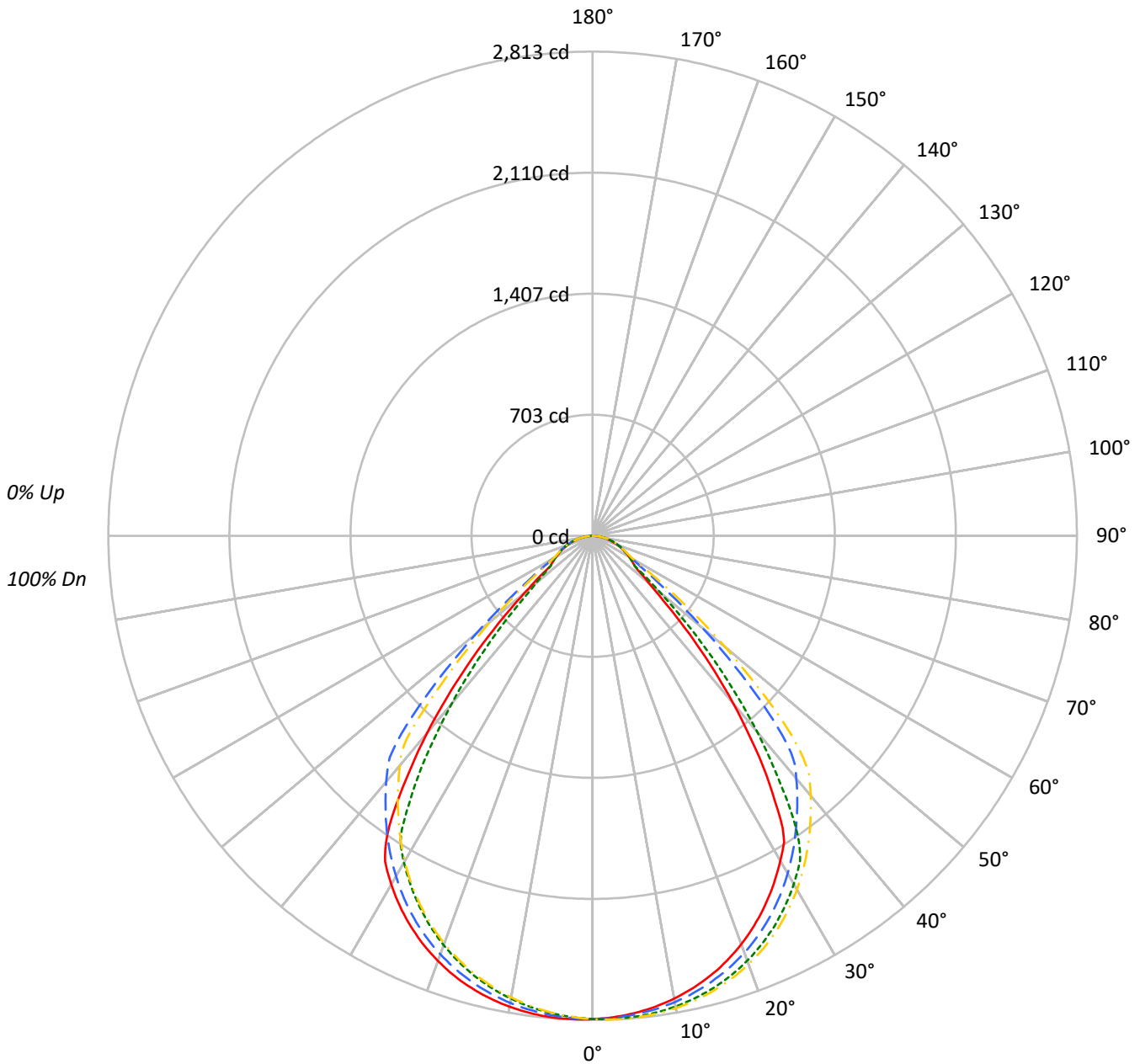
Lumens per Lamp: N/A
Luminaire Lumens: 4926.2 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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



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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					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	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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	78	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	67	57	49	45	55	49	44	54	48	44	53	48	44	42					42			
9	65	53	46	41	63	52	46	41	51	45	41	50	45	40	49	44	40	39					39			
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	120887	120887	120887	120887
5°	120303	121250	121328	120325
10°	119360	121393	121471	119399
15°	117904	121176	121238	118029
20°	115702	120366	120430	115958
25°	112553	118776	118862	112947
30°	108412	116217	116307	108963
35°	95593	107798	108145	95935
40°	71229	83549	84049	71459
45°	46362	57249	57620	46617
50°	28561	34101	34476	28749
55°	22039	22107	22107	22039
60°	21158	21080	21080	21158
65°	20162	20355	20162	20447
70°	19122	19714	19235	19827
75°	17700	19081	18166	19014
80°	15199	18323	16464	17629
85°	8497	16500	12400	14227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 98946 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.5	5.4
10°-20°	756.6	15.4
20°-30°	1123.4	22.8
30°-40°	1242.1	25.2
40°-50°	841.7	17.1
50°-60°	343.1	7.0
60°-70°	202.5	4.1
70°-80°	119.7	2.4
80°-90°	31.5	0.6
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°	2145.5	43.6
0°-40°	3387.6	68.8
0°-60°	4572.5	92.8
0°-90°	4926.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4926.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2808	2808	2808	2808	2808	
5°	2784	2805	2807	2784	2784	264
15°	2645	2718	2720	2648	2645	745
25°	2369	2500	2502	2378	2369	1089
35°	1819	2051	2058	1825	1819	1113
45°	761	940	946	766	761	601
55°	294	294	294	294	294	275
65°	198	200	198	201	198	196
75°	106	115	109	114	106	112
85°	17	33	25	29	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7
0.5°	2807.7	2806.8	2806.8	2807.7	2808.2	2808.6	2809.5	2810.0	2810.0	2808.2	2806.8
1°	2805.8	2805.8	2805.8	2807.7	2809.1	2809.5	2810.9	2810.9	2810.5	2808.2	2806.8
1.5°	2804.0	2804.4	2805.4	2807.2	2809.5	2810.5	2811.9	2811.9	2810.9	2808.6	2805.8
2°	2802.1	2803.0	2804.4	2806.8	2809.5	2810.5	2812.3	2812.3	2811.4	2808.2	2805.4
2.5°	2799.8	2800.7	2803.0	2806.3	2809.5	2810.9	2812.8	2812.8	2811.4	2807.7	2804.0
3°	2797.0	2798.4	2801.2	2805.4	2809.1	2810.9	2812.8	2812.8	2810.9	2807.2	2802.6
3.5°	2794.2	2796.1	2799.3	2804.0	2808.6	2810.5	2812.8	2812.3	2810.5	2806.3	2801.2
4°	2791.0	2793.3	2797.5	2802.6	2807.7	2810.0	2812.3	2811.9	2809.5	2804.9	2799.3
4.5°	2787.2	2790.5	2795.1	2800.7	2806.8	2809.5	2811.4	2811.4	2808.6	2803.5	2797.5
5°	2783.5	2787.2	2792.4	2798.4	2805.4	2808.6	2810.5	2810.5	2807.2	2801.6	2795.1
5.5°	2779.8	2784.0	2789.6	2796.5	2803.5	2807.2	2809.5	2809.1	2805.8	2799.8	2792.4
6°	2775.2	2779.8	2786.3	2793.7	2801.6	2805.8	2808.2	2807.7	2804.0	2797.5	2789.6
6.5°	2771.0	2776.1	2782.6	2791.0	2799.8	2804.0	2806.3	2805.8	2801.6	2794.7	2786.3
7°	2765.9	2771.5	2778.9	2787.7	2797.5	2802.1	2804.4	2803.5	2799.3	2791.4	2782.6
7.5°	2760.8	2767.3	2775.2	2784.5	2794.2	2799.8	2802.1	2801.2	2796.5	2788.2	2778.9
8°	2755.2	2762.2	2771.0	2780.7	2791.4	2797.0	2799.8	2798.4	2793.3	2784.9	2775.2
8.5°	2749.2	2757.1	2766.3	2777.0	2788.2	2793.7	2797.0	2795.6	2790.0	2781.2	2770.5
9°	2743.1	2751.0	2761.2	2772.4	2784.5	2791.0	2793.7	2791.9	2786.3	2777.0	2765.9
9.5°	2737.1	2745.4	2756.1	2768.2	2780.7	2787.2	2790.5	2788.6	2782.6	2772.8	2760.8
10°	2730.1	2739.4	2751.0	2763.1	2776.6	2783.5	2786.8	2784.5	2778.4	2768.7	2755.7
10.5°	2723.1	2732.9	2745.0	2758.0	2772.4	2779.3	2782.6	2780.7	2773.8	2763.6	2750.1
11°	2715.7	2725.9	2739.4	2752.9	2767.3	2775.2	2778.4	2776.1	2769.1	2758.0	2744.5
11.5°	2707.8	2719.0	2732.9	2747.3	2762.2	2770.1	2773.8	2771.5	2764.0	2752.4	2738.5
12°	2699.9	2711.5	2726.4	2741.3	2757.1	2765.4	2769.1	2766.3	2758.9	2746.8	2732.0
12.5°	2691.6	2704.1	2719.4	2735.2	2751.5	2759.8	2763.6	2761.2	2752.9	2740.8	2725.5
13°	2683.2	2696.2	2712.0	2728.2	2745.4	2754.3	2758.0	2755.2	2747.3	2734.3	2718.5
13.5°	2674.4	2687.8	2704.6	2721.3	2738.9	2748.7	2752.4	2749.2	2740.8	2727.8	2711.1
14°	2665.1	2679.0	2697.1	2714.3	2732.4	2742.2	2746.4	2743.1	2734.3	2720.4	2703.6
14.5°	2655.3	2670.2	2688.8	2706.9	2725.5	2735.7	2739.9	2736.6	2727.3	2713.4	2695.3
15°	2645.1	2660.9	2680.4	2699.0	2718.5	2729.2	2733.4	2729.6	2719.9	2705.5	2687.4
15.5°	2634.9	2651.1	2671.1	2690.6	2711.1	2721.7	2726.4	2722.2	2712.5	2697.6	2679.0
16°	2624.2	2640.9	2662.3	2682.3	2703.2	2713.8	2719.0	2714.8	2704.1	2689.2	2669.7
16.5°	2613.0	2630.7	2653.0	2673.9	2694.8	2706.4	2711.5	2707.3	2696.2	2680.9	2660.9
17°	2601.4	2620.0	2643.7	2664.6	2686.0	2698.1	2703.6	2699.0	2687.4	2671.6	2651.1
17.5°	2589.8	2608.9	2633.5	2654.9	2677.6	2689.7	2695.3	2690.2	2678.5	2662.3	2641.4
18°	2577.3	2597.2	2622.8	2645.1	2667.9	2680.9	2686.9	2681.3	2669.3	2652.5	2631.2
18.5°	2565.2	2585.6	2611.6	2634.9	2658.6	2672.0	2677.6	2672.0	2659.5	2642.8	2620.9
19°	2552.2	2573.6	2601.0	2624.7	2648.3	2662.3	2668.3	2662.3	2649.3	2632.1	2609.3
19.5°	2538.7	2561.0	2589.4	2613.5	2637.7	2652.5	2659.0	2652.5	2639.1	2621.9	2598.6
20°	2525.2	2548.5	2577.7	2602.4	2627.0	2641.8	2648.8	2642.3	2628.4	2610.7	2587.5
20.5°	2511.3	2534.5	2565.7	2590.3	2616.3	2631.2	2638.6	2631.6	2617.2	2599.6	2575.4
21°	2496.9	2521.1	2553.1	2578.2	2604.2	2620.0	2627.9	2620.5	2606.1	2587.5	2563.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	2451.4	2477.9	2513.2	2540.6	2568.0	2585.2	2593.5	2585.6	2569.8	2551.3	2524.8
23°	2435.6	2463.0	2499.2	2527.1	2555.0	2572.6	2581.5	2573.6	2556.8	2537.3	2510.8
23.5°	2419.8	2447.7	2484.8	2513.2	2542.0	2560.1	2569.4	2561.0	2543.8	2523.9	2496.9
24°	2403.5	2432.3	2470.4	2499.2	2528.0	2547.1	2556.4	2548.0	2529.9	2510.4	2482.5
24.5°	2386.3	2416.1	2455.1	2484.8	2514.1	2533.6	2542.9	2534.5	2516.0	2496.4	2468.1
25°	2369.2	2399.8	2439.8	2470.0	2500.2	2519.7	2529.4	2520.6	2502.0	2482.0	2452.8
25.5°	2351.5	2382.6	2424.0	2454.6	2485.3	2505.7	2516.0	2506.7	2487.2	2467.2	2437.9
26°	2333.9	2365.9	2407.7	2439.3	2470.0	2490.9	2501.6	2491.8	2472.3	2451.8	2422.6
26.5°	2315.7	2348.7	2391.0	2423.5	2454.6	2476.0	2486.7	2476.9	2456.5	2436.5	2406.3
27°	2297.2	2331.1	2374.3	2407.7	2438.8	2460.7	2471.4	2461.6	2441.2	2420.7	2389.6
27.5°	2278.1	2312.0	2357.1	2391.5	2423.0	2445.3	2456.5	2446.3	2425.4	2404.9	2373.8
28°	2259.1	2293.9	2339.4	2374.7	2405.9	2429.1	2440.2	2430.0	2408.6	2387.7	2356.2
28.5°	2240.0	2275.3	2321.3	2357.1	2389.6	2412.8	2424.0	2414.2	2391.5	2371.5	2339.0
29°	2220.5	2256.7	2304.1	2339.9	2372.4	2396.1	2407.3	2397.0	2374.7	2353.8	2320.8
29.5°	2200.5	2237.2	2285.1	2322.2	2355.2	2379.4	2391.0	2380.3	2357.5	2337.6	2302.7
30°	2180.6	2218.6	2266.0	2304.1	2337.6	2361.7	2373.3	2363.1	2339.4	2318.5	2284.6
30.5°	2160.1	2198.7	2247.0	2286.0	2319.0	2344.5	2355.7	2345.9	2320.8	2300.9	2266.0
31°	2139.7	2178.7	2227.5	2267.4	2299.9	2326.9	2338.0	2327.4	2302.3	2281.8	2247.0
31.5°	2119.2	2158.3	2207.5	2248.4	2281.4	2308.8	2319.9	2309.2	2283.7	2263.2	2227.5
32°	2099.3	2137.8	2187.5	2229.3	2260.9	2289.7	2300.9	2291.1	2263.7	2244.7	2208.0
32.5°	2063.5	2116.9	2167.1	2209.8	2241.4	2271.1	2282.8	2272.1	2243.7	2225.2	2188.5
33°	2026.3	2096.0	2147.1	2189.8	2213.1	2251.6	2263.2	2252.6	2213.1	2205.2	2168.0
33.5°	1977.1	2075.6	2125.7	2169.4	2180.1	2232.1	2243.7	2233.0	2181.5	2186.1	2147.6
34°	1924.1	2055.6	2104.8	2148.0	2142.5	2211.2	2223.3	2213.1	2144.8	2164.8	2126.7
34.5°	1870.2	2021.2	2083.5	2127.6	2099.7	2190.8	2203.8	2190.8	2103.0	2142.5	2106.2
35°	1818.7	1984.1	2062.1	2097.4	2050.9	2167.5	2183.8	2166.6	2057.5	2114.1	2084.9
35.5°	1767.6	1938.1	2040.3	2064.9	1999.4	2132.2	2163.4	2132.2	2005.9	2082.1	2063.5
36°	1716.0	1886.5	2018.9	2029.1	1941.8	2100.7	2142.5	2101.6	1949.2	2048.2	2042.1
36.5°	1662.6	1835.9	1996.6	1987.3	1884.2	2059.8	2122.0	2062.6	1892.5	2007.7	2020.8
37°	1605.5	1785.2	1974.8	1941.8	1822.4	2014.2	2101.1	2019.4	1833.5	1963.2	1998.0
37.5°	1547.9	1734.6	1952.5	1892.5	1764.3	1965.0	2079.3	1972.9	1774.1	1916.2	1976.2
38°	1489.8	1683.5	1930.2	1838.7	1706.7	1912.5	2057.9	1921.8	1717.4	1863.7	1954.3
38.5°	1432.6	1632.4	1908.3	1782.9	1652.4	1857.2	2036.1	1867.9	1661.7	1809.4	1932.5
39°	1376.4	1579.4	1885.6	1728.1	1597.1	1800.1	2015.2	1811.7	1606.4	1753.6	1909.7
39.5°	1321.6	1524.6	1863.7	1672.8	1542.7	1741.1	1992.9	1755.5	1551.6	1697.9	1887.4
40°	1267.3	1467.0	1840.5	1617.1	1486.5	1684.9	1971.5	1699.3	1495.4	1642.6	1865.1
40.5°	1215.2	1410.8	1817.7	1564.6	1429.9	1630.5	1948.7	1644.9	1438.7	1588.7	1842.8
41°	1161.8	1356.5	1795.0	1512.5	1371.3	1577.6	1926.5	1590.6	1379.7	1536.2	1819.6
41.5°	1109.3	1302.1	1773.6	1460.5	1313.7	1524.2	1902.8	1537.6	1322.1	1484.7	1795.9
42°	1055.9	1249.2	1740.2	1409.4	1257.0	1470.7	1879.1	1484.7	1264.9	1432.6	1771.8
42.5°	1003.9	1199.4	1704.9	1356.9	1202.2	1416.8	1856.3	1431.3	1209.2	1379.2	1743.9
43°	951.4	1147.4	1656.6	1302.1	1148.8	1361.6	1815.0	1376.0	1155.3	1325.3	1696.0
43.5°	902.6	1096.3	1603.6	1249.6	1095.4	1306.3	1774.1	1319.8	1102.4	1270.5	1654.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	761.4	943.0	1427.1	1093.1	940.2	1143.7	1625.0	1156.7	946.3	1112.6	1477.7
45.5°	716.8	893.8	1367.6	1044.3	888.2	1092.1	1566.0	1103.3	896.1	1061.9	1415.5
46°	674.0	845.5	1304.9	995.5	838.5	1041.0	1502.3	1052.2	845.9	1012.7	1352.3
46.5°	633.6	799.9	1242.2	946.7	790.6	989.5	1437.3	1001.6	797.6	964.4	1289.1
47°	594.1	753.5	1179.5	898.9	744.2	939.3	1370.9	950.9	751.6	916.1	1226.4
47.5°	557.9	710.3	1116.8	851.5	699.6	890.1	1303.5	901.2	707.0	868.7	1164.6
48°	524.9	668.0	1055.9	805.0	657.8	841.7	1239.4	853.4	664.8	823.2	1103.3
48.5°	496.1	627.1	998.8	760.5	617.4	794.4	1175.8	804.6	623.9	777.2	1043.8
49°	470.6	587.6	943.9	717.3	579.3	747.0	1116.3	758.1	585.3	734.0	986.2
49.5°	447.8	551.9	890.1	675.9	543.0	702.9	1058.2	713.5	549.1	690.8	930.5
50°	426.4	517.5	837.6	634.1	509.1	659.6	1001.6	670.3	514.7	649.9	877.1
50.5°	408.8	486.8	788.8	595.1	477.5	618.8	946.3	628.1	482.2	609.9	826.0
51°	391.6	459.0	741.4	558.4	448.3	580.2	892.4	589.0	452.9	573.2	775.3
51.5°	375.3	435.7	695.9	524.0	425.5	543.0	839.0	551.9	429.2	537.5	728.9
52°	358.6	414.4	651.8	491.0	402.3	508.7	788.8	516.1	405.1	504.5	683.8
52.5°	342.8	395.8	610.9	459.9	379.5	475.7	737.7	482.7	381.4	472.0	640.6
53°	327.0	378.1	571.8	431.1	356.3	446.4	689.4	451.1	357.2	441.8	600.2
53.5°	314.5	361.9	535.2	404.2	333.5	422.7	643.4	426.4	333.5	417.2	561.2
54°	304.7	346.1	501.2	380.0	315.4	398.6	602.5	401.8	315.4	392.5	525.4
54.5°	298.7	330.8	469.2	357.7	302.0	374.4	560.7	377.2	301.5	367.9	491.9
55°	293.6	314.5	439.9	336.8	294.5	350.3	523.1	352.6	294.5	343.3	461.3
55.5°	288.5	301.5	412.5	317.3	288.9	326.6	486.8	328.0	288.5	322.9	432.5
56°	283.4	290.8	388.4	299.6	283.8	307.5	454.3	308.5	283.4	304.7	409.7
56.5°	278.7	284.8	365.6	286.6	278.7	291.7	428.3	292.2	278.3	290.8	387.0
57°	274.1	279.7	345.2	279.7	273.6	282.0	401.8	281.5	273.6	282.9	364.2
57.5°	269.0	274.5	326.6	274.5	269.0	275.9	375.8	275.5	268.5	277.3	341.4
58°	264.3	269.9	311.2	269.4	263.9	270.8	349.3	270.4	263.9	272.2	323.3
58.5°	259.7	264.8	297.3	264.3	259.2	266.2	323.3	265.7	258.7	267.6	308.0
59°	255.0	260.1	284.8	259.7	254.6	261.1	305.2	261.1	254.1	262.5	294.5
59.5°	250.4	255.5	274.1	254.6	249.9	256.4	289.9	256.0	249.5	257.8	282.4
60°	245.7	250.9	264.8	249.9	244.8	251.8	276.9	251.3	244.8	253.2	271.8
60.5°	240.6	246.2	256.0	245.3	240.2	246.7	266.2	246.7	240.2	248.1	262.5
61°	236.0	241.6	248.1	240.2	236.0	242.0	256.0	242.0	235.1	243.4	254.1
61.5°	231.3	236.9	241.1	236.0	231.3	237.4	247.6	237.4	230.4	238.8	246.2
62°	226.7	232.3	234.6	231.3	226.7	233.2	239.7	232.7	225.8	234.1	239.2
62.5°	221.6	227.6	228.6	226.2	222.1	228.6	232.7	228.1	221.1	229.5	233.2
63°	216.9	223.0	223.4	221.6	217.4	223.9	226.7	223.0	216.0	224.4	227.2
63.5°	212.3	217.9	218.3	216.9	213.2	219.3	220.7	218.3	211.8	219.7	222.1
64°	207.6	213.2	213.2	212.3	208.6	214.6	216.0	213.7	207.2	215.1	217.4
64.5°	202.5	208.6	208.6	207.6	204.4	210.0	210.9	209.0	202.5	210.4	212.3
65°	197.9	203.9	203.9	203.5	199.8	205.8	206.3	204.4	197.9	205.8	207.6
65.5°	193.2	198.8	198.8	198.8	195.6	201.1	201.6	199.8	193.2	201.1	203.0
66°	188.6	194.2	194.2	194.2	190.9	196.5	196.5	195.1	188.6	196.5	197.9



TEST NUMBER: P776741

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	174.7	180.2	180.2	180.7	177.9	183.0	182.6	181.2	175.1	182.6	184.0
68°	170.0	175.6	175.6	176.1	173.7	178.8	177.9	176.5	170.5	177.5	179.3
68.5°	165.4	171.0	171.0	171.4	169.6	174.2	173.7	172.3	165.8	173.3	174.7
69°	160.7	166.3	166.3	169.1	165.4	170.0	169.1	167.7	161.7	168.6	170.0
69.5°	156.6	161.7	161.7	164.4	161.2	165.4	164.0	163.1	157.0	164.0	165.4
70°	151.9	157.0	157.0	159.8	156.6	161.2	159.8	158.4	152.8	159.3	160.7
70.5°	147.3	152.4	152.4	154.7	152.4	157.0	155.2	154.2	148.2	154.7	156.1
71°	143.1	148.2	147.7	150.0	148.2	152.4	150.5	149.6	144.0	150.0	151.4
71.5°	138.4	143.1	143.5	145.9	144.0	148.2	145.9	144.9	139.4	145.4	146.8
72°	133.8	138.9	138.9	141.2	139.8	143.5	141.2	140.8	135.2	141.2	142.1
72.5°	129.1	133.8	134.3	137.0	135.6	139.4	137.0	136.1	130.5	136.6	137.5
73°	124.5	129.6	129.6	132.4	131.5	135.2	132.4	131.5	126.4	131.9	132.9
73.5°	119.9	125.0	125.0	128.2	127.3	131.0	127.7	127.3	122.2	127.3	128.2
74°	115.2	120.3	120.3	123.6	123.1	126.4	123.6	122.6	117.5	123.1	123.6
74.5°	111.0	115.7	115.7	119.4	118.9	122.2	118.9	118.5	113.3	118.5	119.4
75°	106.4	111.0	111.5	115.2	114.7	118.0	114.7	113.8	109.2	113.8	114.7
75.5°	101.7	106.4	106.8	111.0	110.6	113.8	110.1	109.6	104.5	109.6	110.1
76°	97.6	101.7	102.2	106.4	106.4	109.6	105.5	105.0	100.3	105.0	105.5
76.5°	92.9	97.1	97.6	102.2	102.2	105.5	101.3	100.3	96.2	100.3	101.3
77°	88.3	92.4	92.9	98.0	98.5	101.3	97.1	96.2	92.0	96.2	96.6
77.5°	83.6	87.8	88.7	93.4	94.3	97.1	92.4	91.5	87.8	91.5	92.0
78°	79.4	83.2	84.1	89.2	90.1	92.4	88.3	87.3	83.6	86.9	87.8
78.5°	74.8	79.0	79.4	85.0	85.9	88.3	83.6	82.7	79.0	82.7	83.2
79°	70.1	74.3	75.3	80.4	81.8	84.1	79.4	78.5	74.8	78.0	78.5
79.5°	65.5	69.7	70.6	76.2	77.6	79.9	75.3	73.9	71.1	73.4	74.3
80°	61.3	65.0	66.0	71.5	73.9	75.7	70.6	69.7	66.4	69.2	69.7
80.5°	56.7	60.4	61.8	67.4	69.7	71.5	66.4	65.0	62.2	64.6	65.5
81°	52.5	55.7	57.1	63.2	65.5	66.9	62.2	60.9	58.1	60.4	60.9
81.5°	47.8	51.1	53.0	59.0	61.3	62.7	58.1	56.2	53.9	55.7	56.7
82°	43.7	46.9	48.3	54.8	57.6	58.5	53.9	52.0	49.7	51.1	52.0
82.5°	39.0	42.3	44.1	50.6	53.4	54.8	49.7	47.4	45.5	46.9	47.8
83°	34.8	37.6	40.0	46.5	49.7	50.6	46.0	43.2	41.3	42.3	43.7
83.5°	30.2	33.0	36.2	42.3	45.5	46.5	42.3	39.0	37.2	38.1	40.0
84°	26.0	28.3	32.1	38.1	41.3	42.3	38.6	34.4	33.0	33.4	36.2
84.5°	21.4	24.2	28.3	34.4	37.6	38.6	34.4	30.2	28.8	29.3	32.5
85°	17.2	19.5	25.1	30.2	33.4	34.4	30.7	26.0	25.1	24.6	28.8
85.5°	14.4	16.7	21.4	26.0	29.7	30.7	26.9	22.3	20.9	20.9	25.1
86°	11.6	13.9	18.1	22.3	25.5	26.5	23.7	19.0	16.7	17.2	21.4
86.5°	9.3	10.7	14.9	18.1	21.8	22.3	20.0	15.8	13.5	14.4	18.1
87°	6.5	7.9	11.1	14.4	17.7	18.6	16.7	13.0	11.1	11.6	14.4
87.5°	4.2	5.1	7.9	10.7	13.9	14.9	13.5	10.2	8.8	9.3	11.1
88°	1.9	2.8	4.6	7.0	10.2	11.1	10.2	7.9	7.0	7.0	7.9
88.5°	0.5	0.9	1.9	3.3	6.5	7.0	7.0	5.6	4.6	4.2	4.2



TEST NUMBER: P776741

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0



TEST NUMBER: P776741

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7
0.5°	2806.8	2805.8	2805.8	2806.8	2806.8	2807.7
1°	2805.8	2804.4	2804.0	2804.9	2804.9	2805.8
1.5°	2804.4	2802.6	2801.6	2802.1	2803.0	2804.0
2°	2803.0	2800.3	2799.3	2799.8	2800.7	2802.1
2.5°	2801.6	2798.4	2797.0	2797.0	2797.9	2799.8
3°	2799.8	2796.1	2793.7	2793.7	2795.1	2797.0
3.5°	2797.5	2793.7	2791.0	2791.0	2791.9	2794.2
4°	2795.1	2790.5	2787.7	2787.2	2788.2	2791.0
4.5°	2792.4	2787.2	2784.0	2783.5	2784.5	2787.2
5°	2789.6	2784.0	2779.8	2779.3	2780.7	2783.5
5.5°	2786.3	2779.8	2776.1	2774.7	2776.6	2779.8
6°	2783.1	2775.2	2771.9	2770.5	2771.9	2775.2
6.5°	2779.3	2771.0	2766.8	2765.9	2766.8	2771.0
7°	2775.2	2766.3	2761.7	2760.3	2761.7	2765.9
7.5°	2770.5	2761.2	2756.6	2754.7	2756.6	2760.8
8°	2765.9	2755.7	2751.0	2749.2	2750.5	2755.2
8.5°	2761.2	2750.1	2745.0	2743.1	2745.0	2749.2
9°	2755.7	2744.0	2738.5	2736.6	2738.5	2743.1
9.5°	2750.1	2737.5	2732.0	2730.1	2731.5	2737.1
10°	2744.5	2731.0	2725.0	2723.1	2725.0	2730.1
10.5°	2738.0	2724.1	2718.5	2716.2	2718.0	2723.1
11°	2731.5	2717.1	2710.6	2708.7	2710.1	2715.7
11.5°	2725.0	2709.7	2702.7	2700.8	2702.7	2707.8
12°	2718.0	2701.8	2695.3	2692.5	2694.3	2699.9
12.5°	2710.6	2693.9	2686.9	2684.1	2686.0	2691.6
13°	2702.7	2685.0	2678.1	2675.3	2676.7	2683.2
13.5°	2694.8	2676.2	2669.3	2666.5	2667.9	2674.4
14°	2686.9	2666.9	2660.0	2657.2	2658.6	2665.1
14.5°	2678.1	2657.6	2650.2	2647.9	2648.8	2655.3
15°	2668.8	2647.9	2640.5	2637.7	2638.6	2645.1
15.5°	2659.5	2637.7	2630.2	2627.4	2628.4	2634.9
16°	2649.7	2627.0	2619.5	2616.8	2617.2	2624.2
16.5°	2639.5	2616.3	2608.4	2606.1	2606.1	2613.0
17°	2629.3	2605.1	2597.2	2594.5	2594.9	2601.4
17.5°	2618.6	2594.0	2585.6	2582.8	2583.3	2589.8
18°	2607.9	2581.9	2573.6	2570.8	2570.8	2577.3
18.5°	2596.3	2569.8	2561.5	2558.2	2558.2	2565.2
19°	2584.7	2556.8	2548.5	2545.7	2545.2	2552.2
19.5°	2572.6	2543.8	2535.5	2532.7	2532.2	2538.7
20°	2560.1	2530.8	2522.0	2520.1	2518.7	2525.2
20.5°	2547.5	2516.9	2508.1	2506.2	2504.8	2511.3
21°	2534.1	2503.4	2494.1	2492.3	2490.4	2496.9

TEST NUMBER: P776741

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2492.7	2459.3	2450.0	2448.1	2445.3	2451.4
23°	2478.3	2443.5	2434.7	2432.8	2429.5	2435.6
23.5°	2463.5	2427.7	2418.4	2417.0	2413.8	2419.8
24°	2448.1	2411.4	2402.6	2400.7	2397.0	2403.5
24.5°	2432.8	2394.7	2386.3	2384.0	2380.3	2386.3
25°	2417.0	2377.5	2370.1	2367.8	2363.6	2369.2
25.5°	2400.7	2360.3	2352.0	2350.6	2346.4	2351.5
26°	2384.0	2343.1	2335.2	2333.4	2328.7	2333.9
26.5°	2367.3	2325.5	2317.6	2315.7	2310.6	2315.7
27°	2349.6	2307.4	2299.5	2298.1	2292.5	2297.2
27.5°	2332.0	2288.3	2281.4	2279.5	2273.9	2278.1
28°	2314.3	2269.7	2262.3	2260.5	2255.3	2259.1
28.5°	2296.7	2250.2	2243.3	2241.4	2235.8	2240.0
29°	2277.6	2231.2	2224.2	2222.4	2216.8	2220.5
29.5°	2259.1	2211.7	2204.7	2202.9	2197.3	2200.5
30°	2239.6	2191.7	2185.2	2182.9	2177.3	2180.6
30.5°	2220.0	2170.8	2164.8	2162.4	2157.3	2160.1
31°	2200.1	2149.9	2144.8	2142.0	2136.9	2139.7
31.5°	2181.0	2128.1	2123.4	2121.1	2116.0	2119.2
32°	2160.6	2107.6	2102.5	2100.2	2095.5	2099.3
32.5°	2140.1	2072.8	2081.6	2078.8	2074.6	2063.5
33°	2119.2	2035.6	2060.2	2057.9	2053.3	2026.3
33.5°	2097.9	1984.5	2037.0	2036.1	2031.4	1977.1
34°	2075.6	1931.6	2016.6	2014.2	2011.5	1924.1
34.5°	2054.7	1878.1	1978.5	1992.0	1987.3	1870.2
35°	2021.7	1825.2	1942.2	1969.7	1946.4	1818.7
35.5°	1985.0	1773.6	1890.2	1947.4	1908.3	1767.6
36°	1937.6	1722.1	1842.8	1925.1	1859.6	1716.0
36.5°	1885.1	1668.2	1791.3	1902.8	1808.0	1662.6
37°	1835.4	1612.0	1741.6	1879.5	1757.8	1605.5
37.5°	1783.4	1554.4	1690.9	1856.8	1709.5	1547.9
38°	1732.3	1494.4	1641.7	1834.0	1660.7	1489.8
38.5°	1681.6	1436.4	1591.1	1811.2	1610.6	1432.6
39°	1631.9	1380.2	1538.6	1788.5	1560.9	1376.4
39.5°	1576.7	1324.9	1483.3	1765.3	1507.9	1321.6
40°	1521.4	1271.4	1428.9	1742.0	1454.0	1267.3
40.5°	1464.2	1219.4	1374.6	1718.8	1399.7	1215.2
41°	1409.9	1166.5	1319.8	1696.0	1345.3	1161.8
41.5°	1353.2	1112.6	1266.3	1671.4	1293.3	1109.3
42°	1299.3	1059.2	1218.0	1635.6	1242.6	1055.9
42.5°	1247.3	1007.6	1168.8	1597.1	1193.9	1003.9
43°	1197.6	955.1	1118.2	1540.4	1143.7	951.4
43.5°	1144.6	906.3	1069.4	1484.7	1094.0	902.6



TEST NUMBER: P776741

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	993.7	765.6	919.8	1297.0	945.3	761.4
45.5°	941.6	720.0	874.3	1238.9	898.9	716.8
46°	892.8	677.3	827.3	1182.7	852.4	674.0
46.5°	845.0	636.0	783.2	1127.9	806.9	633.6
47°	799.0	596.9	738.6	1073.1	762.8	594.1
47.5°	753.9	560.7	696.8	1018.3	720.5	557.9
48°	710.3	527.3	655.0	963.9	677.8	524.9
48.5°	668.0	498.0	615.5	912.8	637.8	496.1
49°	627.1	472.0	578.8	863.1	599.7	470.6
49.5°	588.6	449.2	544.4	815.3	564.0	447.8
50°	551.4	429.2	511.0	768.4	528.6	426.4
50.5°	517.0	410.2	482.7	726.1	498.0	408.8
51°	486.4	393.0	456.2	685.2	470.1	391.6
51.5°	459.4	376.7	433.4	645.7	445.5	375.3
52°	435.7	360.9	413.0	608.5	423.2	358.6
52.5°	414.8	344.7	394.9	572.8	403.7	342.8
53°	397.6	328.9	378.1	538.9	385.6	327.0
53.5°	380.5	315.4	361.4	507.3	368.8	314.5
54°	363.3	305.2	345.6	477.1	352.6	304.7
54.5°	346.5	298.7	329.8	449.2	337.3	298.7
55°	330.8	293.6	314.5	423.7	321.5	293.6
55.5°	314.5	288.5	302.0	399.5	307.1	288.5
56°	301.0	283.8	292.2	377.7	295.4	283.4
56.5°	290.3	278.7	286.6	358.2	288.5	278.7
57°	283.8	274.1	281.5	339.6	282.9	274.1
57.5°	278.7	269.0	276.4	322.9	277.8	269.0
58°	274.1	264.3	271.8	308.0	273.2	264.3
58.5°	269.0	259.7	266.6	294.5	268.0	259.7
59°	264.3	255.0	262.0	283.4	263.4	255.0
59.5°	259.7	250.4	257.4	273.2	258.7	250.4
60°	255.0	245.7	252.7	263.9	253.6	245.7
60.5°	250.4	241.1	248.1	256.0	249.0	240.6
61°	245.7	236.5	243.4	248.5	244.3	236.0
61.5°	241.1	232.3	238.8	241.6	239.7	231.3
62°	236.5	227.6	234.1	235.5	234.6	226.7
62.5°	231.8	223.0	229.5	229.9	229.9	221.6
63°	227.2	218.8	224.8	225.3	225.3	216.9
63.5°	222.5	214.2	220.2	220.2	220.2	212.3
64°	217.9	209.5	215.5	215.5	215.5	207.6
64.5°	213.2	205.3	210.9	210.4	210.4	202.5
65°	209.0	200.7	206.3	205.8	205.8	197.9
65.5°	204.4	196.5	201.6	200.7	200.7	193.2
66°	199.8	191.9	197.0	196.0	196.0	188.6



TEST NUMBER: P776741

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	186.3	178.8	183.5	182.1	181.6	174.7
68°	181.6	174.2	178.8	177.5	176.5	170.0
68.5°	177.0	170.0	174.2	172.3	171.9	165.4
69°	172.3	165.8	170.0	166.8	169.6	160.7
69.5°	168.2	161.7	165.4	162.6	164.4	156.6
70°	163.5	157.5	161.2	157.9	159.3	151.9
70.5°	158.9	152.8	156.6	153.8	153.8	147.3
71°	154.7	148.7	151.9	149.6	148.7	143.1
71.5°	150.0	144.5	147.7	144.5	144.0	138.4
72°	145.9	140.3	143.1	139.8	139.4	133.8
72.5°	141.2	135.6	138.9	135.2	134.7	129.1
73°	136.6	131.5	134.3	130.5	129.6	124.5
73.5°	132.4	126.8	129.6	125.9	125.0	119.9
74°	127.7	122.6	125.0	121.2	120.3	115.2
74.5°	123.6	118.5	120.8	116.6	115.7	111.0
75°	118.9	114.3	116.1	112.0	111.0	106.4
75.5°	114.7	109.6	111.5	107.3	106.4	101.7
76°	110.1	105.5	107.3	102.7	101.3	97.6
76.5°	105.9	101.3	102.7	98.0	96.6	92.9
77°	101.3	97.1	98.5	93.4	92.0	88.3
77.5°	97.1	92.4	93.8	88.7	87.3	83.6
78°	92.4	88.3	89.2	84.1	82.7	79.4
78.5°	88.3	84.1	85.0	79.4	78.0	74.8
79°	83.6	79.4	80.4	74.8	73.4	70.1
79.5°	79.0	75.3	75.7	70.1	68.8	65.5
80°	74.8	71.1	71.1	66.0	63.6	61.3
80.5°	70.1	66.9	66.9	61.3	59.0	56.7
81°	66.0	62.7	62.2	57.1	54.4	52.5
81.5°	61.3	58.5	58.1	52.5	49.7	47.8
82°	57.1	53.9	53.4	48.3	45.1	43.7
82.5°	53.0	49.7	49.2	44.1	40.4	39.0
83°	48.8	45.5	45.1	40.0	35.8	34.8
83.5°	44.6	41.3	40.4	35.8	31.1	30.2
84°	40.0	37.2	36.2	32.1	26.9	26.0
84.5°	35.8	33.0	32.1	27.9	23.2	21.4
85°	31.6	28.8	27.9	24.2	19.5	17.2
85.5°	27.4	24.6	23.2	20.4	16.3	14.4
86°	23.2	20.4	19.0	16.7	13.5	11.6
86.5°	19.0	16.3	15.3	13.0	10.7	9.3
87°	15.3	12.5	11.6	9.3	7.4	6.5
87.5°	11.1	8.8	7.9	6.0	4.6	4.2
88°	7.4	4.6	4.2	2.3	1.9	1.9
88.5°	3.3	0.9	0.5	0.5	0.5	0.5



TEST NUMBER: P776741

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.5	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

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

Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	2481.6	2507.1	2540.1	2566.1	2592.1	2608.9	2616.3	2608.9	2594.0	2575.4	2550.8
22°	2466.7	2492.7	2526.6	2553.6	2580.1	2597.2	2605.1	2597.7	2581.9	2563.3	2537.8



44°	853.4	1043.8	1546.5	1196.2	1042.4	1250.1	1731.3	1264.0	1049.4	1216.6	1598.0
44.5°	806.9	993.7	1488.4	1144.6	990.9	1196.2	1679.3	1209.7	997.8	1164.1	1538.6



66.5°	184.0	189.5	189.5	189.5	186.7	191.9	191.9	190.5	184.0	191.9	193.2
67°	179.3	184.9	184.9	185.4	182.6	187.7	187.2	185.8	179.3	187.2	188.6



89°	0.0	0.5	0.5	0.9	2.8	3.7	3.7	2.8	2.3	1.9	1.4
89.5°	0.0	0.0	0.5	0.5	0.5	0.9	1.4	0.9	0.5	0.5	0.5

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Scaled Data Report





21.5°	2520.6	2489.0	2479.7	2477.9	2475.5	2481.6
22°	2507.1	2474.1	2464.9	2463.5	2461.1	2466.7



44°	1093.5	856.6	1018.7	1417.8	1044.3	853.4
44.5°	1042.9	811.1	969.5	1357.9	995.0	806.9



66.5°	195.1	187.7	192.3	191.4	190.9	184.0
67°	190.5	183.0	188.1	186.7	186.3	179.3

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Peachtree City, GA 30269

Scaled Data Report



89°	0.9	0.0	0.5	0.5	0.5	0.0
89.5°	0.0	0.0	0.0	0.5	0.5	0.0

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

Scaled Data Report



(END OF REPORT)