

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: HALO COMMERCIAL

Report Number: P776800

Luminaire Tested: HCDJBL54050CSD-HCD8TRH-5000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776800
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-HCD8TRH-5000lm-2700K
Description: 8 INCH ROUND MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

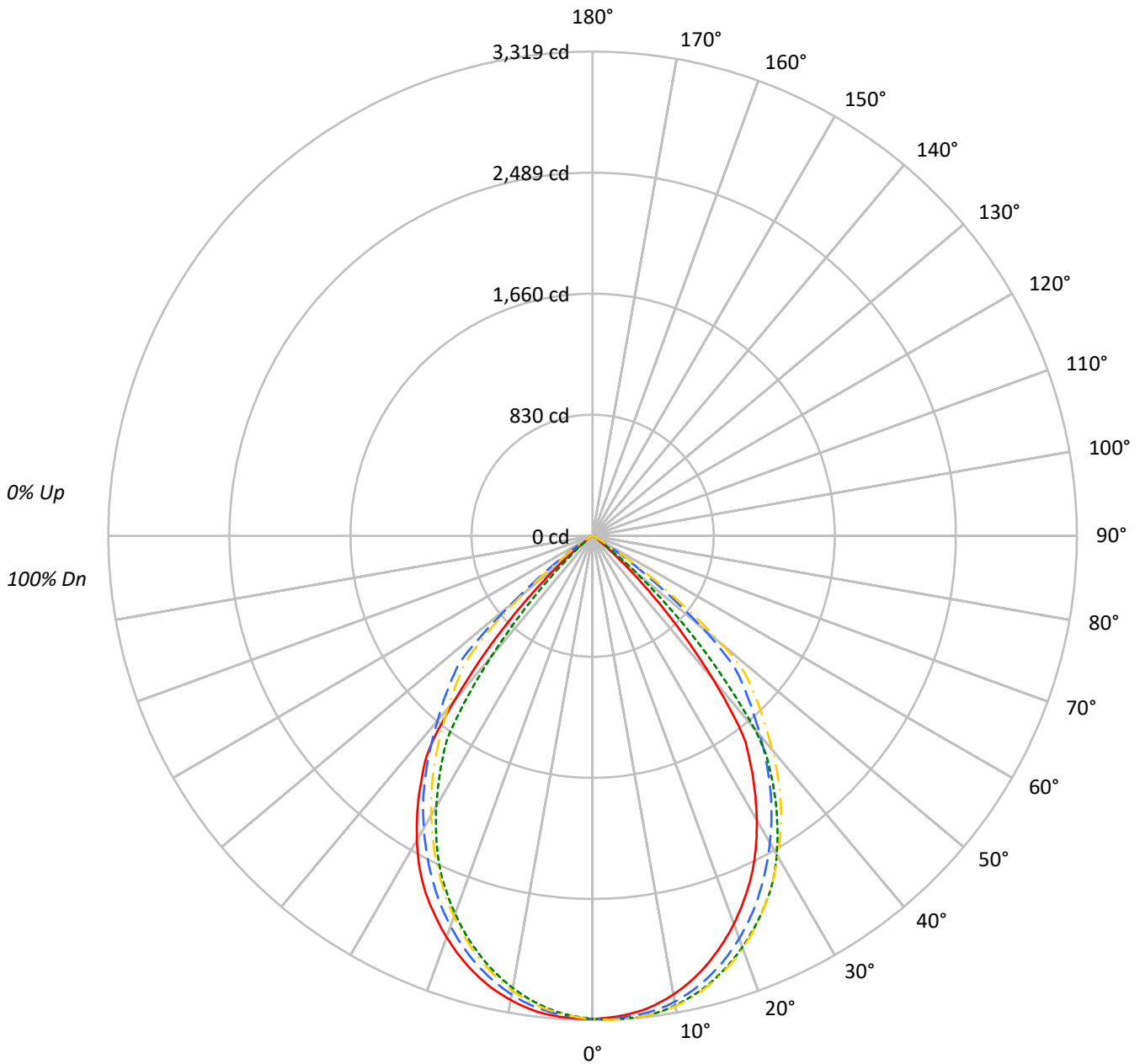
Lumens per Lamp: N/A
Luminaire Lumens: 4589.8 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
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: 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	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69					69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63					63			
6	83	72	66	61	81	72	65	60	70	64	60	68	63	60	67	63	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	62	58	54	53					53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	57	51	47	56	51	46	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	101101	101101	101101	101101
5°	100592	101598	101095	99936
10°	98959	101334	100190	97592
15°	96086	99945	98216	94142
20°	91975	97495	95113	89535
25°	86709	94090	91115	83748
30°	79327	88994	84897	75520
35°	69946	81201	76293	65701
40°	51229	68601	58455	42808
45°	25802	41773	32274	18881
50°	7875	17332	10601	5410
55°	2912	3274	2912	2523
60°	2223	2449	2223	1917
65°	1741	1878	1712	1481
70°	1384	1509	1339	1178
75°	1132	1239	1073	908
80°	879	1037	879	721
85°	631	946	631	490

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 68655 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.7	6.8
10°-20°	865.2	18.9
20°-30°	1214.1	26.5
30°-40°	1246.8	27.2
40°-50°	762.3	16.6
50°-60°	148.1	3.2
60°-70°	27.0	0.6
70°-80°	12.0	0.3
80°-90°	2.6	0.1
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°	2391.0	52.1
0°-40°	3637.9	79.3
0°-60°	4548.2	99.1
0°-90°	4589.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4589.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3312	3312	3312	3312	3312	
5°	3282	3315	3299	3261	3282	310
15°	3040	3162	3107	2978	3040	853
25°	2574	2793	2705	2486	2574	1177
35°	1877	2179	2047	1763	1877	1147
45°	598	968	748	437	598	481
55°	55	62	55	47	55	60
65°	24	26	24	20	24	24
75°	10	10	9	8	10	10
85°	2	3	2	1	2	2
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°	3311.5	3311.5	3311.5	3311.5	3311.5	3311.5	3311.5	3311.5	3311.5	3311.5	3311.5
0.5°	3310.6	3310.1	3312.4	3314.2	3312.8	3314.2	3315.1	3315.1	3311.9	3309.7	3309.7
1°	3308.7	3309.7	3312.4	3315.6	3314.7	3316.0	3316.9	3316.0	3311.9	3308.3	3307.8
1.5°	3306.9	3308.7	3312.4	3316.5	3316.0	3317.9	3318.3	3316.5	3311.5	3306.9	3305.6
2°	3304.6	3307.4	3312.4	3316.9	3317.4	3318.8	3319.2	3316.5	3310.6	3305.1	3302.8
2.5°	3301.9	3305.6	3311.5	3316.9	3317.9	3319.7	3319.2	3316.5	3309.7	3302.8	3300.1
3°	3298.7	3303.3	3310.1	3316.0	3317.9	3319.7	3319.2	3316.0	3307.8	3300.5	3296.4
3.5°	3295.1	3300.5	3308.3	3314.7	3317.9	3319.7	3318.8	3314.7	3306.0	3297.4	3292.8
4°	3291.4	3297.8	3306.0	3313.3	3316.9	3318.8	3317.9	3313.8	3304.2	3294.6	3288.7
4.5°	3287.3	3294.6	3303.3	3311.5	3316.0	3317.9	3316.5	3312.4	3301.9	3291.4	3283.7
5°	3282.3	3291.0	3300.5	3309.7	3315.1	3316.5	3315.1	3310.1	3298.7	3287.3	3279.1
5.5°	3276.9	3286.4	3296.9	3307.4	3313.3	3315.1	3313.3	3307.4	3295.5	3283.2	3273.7
6°	3270.5	3281.4	3293.7	3304.6	3311.5	3313.3	3311.0	3304.6	3291.0	3278.2	3267.3
6.5°	3263.2	3275.0	3289.6	3301.5	3308.7	3311.0	3308.7	3300.5	3285.5	3272.3	3260.5
7°	3255.0	3268.7	3285.1	3297.4	3305.1	3307.8	3306.0	3296.0	3279.6	3265.9	3253.2
7.5°	3246.3	3260.9	3280.1	3292.3	3300.5	3304.2	3302.4	3290.1	3273.2	3258.2	3245.0
8°	3236.3	3252.7	3274.6	3286.9	3295.5	3299.6	3298.3	3284.6	3266.4	3250.9	3235.9
8.5°	3225.8	3243.2	3267.8	3281.0	3289.6	3294.2	3293.3	3278.2	3258.2	3242.2	3226.3
9°	3215.4	3234.0	3260.5	3274.1	3283.2	3288.7	3287.8	3270.9	3250.0	3232.7	3215.8
9.5°	3203.5	3223.6	3252.3	3266.8	3276.4	3281.9	3281.4	3263.2	3240.9	3223.1	3204.9
10°	3192.1	3213.5	3243.2	3259.1	3268.7	3275.0	3274.1	3255.0	3231.8	3213.1	3193.1
10.5°	3179.8	3202.2	3233.6	3250.4	3260.0	3267.8	3266.8	3246.8	3222.2	3202.2	3180.8
11°	3166.6	3190.8	3223.1	3241.3	3251.4	3259.1	3258.6	3237.7	3211.7	3191.2	3168.5
11.5°	3153.0	3178.5	3212.2	3231.3	3242.2	3250.0	3249.5	3228.1	3200.8	3178.9	3154.8
12°	3138.4	3166.2	3200.3	3221.3	3232.7	3240.9	3239.5	3218.1	3189.4	3166.6	3141.1
12.5°	3123.8	3153.0	3188.5	3210.4	3222.2	3231.3	3229.0	3207.6	3177.1	3153.4	3126.5
13°	3108.3	3139.3	3175.7	3199.4	3211.7	3221.3	3218.6	3196.2	3164.8	3139.8	3112.0
13.5°	3091.9	3125.2	3162.1	3187.6	3199.9	3210.4	3207.2	3184.9	3151.1	3125.6	3096.9
14°	3075.1	3110.2	3148.4	3175.3	3188.0	3199.0	3194.9	3172.6	3137.5	3111.1	3080.5
14.5°	3057.3	3093.8	3133.8	3162.1	3175.3	3186.7	3182.6	3159.3	3122.4	3095.1	3064.6
15°	3040.0	3077.8	3118.8	3148.0	3162.1	3173.9	3169.4	3146.1	3107.4	3079.2	3047.7
15.5°	3020.9	3061.0	3103.3	3133.4	3148.4	3160.3	3155.7	3132.0	3091.9	3062.8	3030.4
16°	3001.7	3043.2	3087.4	3118.8	3134.3	3146.6	3141.6	3117.0	3075.5	3045.5	3012.2
16.5°	2982.6	3025.4	3070.5	3103.8	3119.3	3132.5	3127.5	3101.0	3058.7	3027.7	2993.5
17°	2962.6	3007.2	3053.2	3087.8	3103.8	3117.4	3112.0	3086.0	3041.8	3009.0	2974.0
17.5°	2941.6	2988.1	3035.0	3070.5	3087.8	3101.5	3096.0	3069.2	3023.6	2990.4	2954.4
18°	2920.7	2968.0	3016.8	3053.2	3071.4	3085.6	3080.1	3051.8	3005.4	2971.2	2934.3
18.5°	2898.8	2947.5	2997.6	3035.4	3054.1	3068.7	3062.8	3034.5	2986.3	2951.2	2912.9
19°	2876.5	2927.0	2978.1	3017.2	3036.8	3050.9	3045.0	3016.3	2967.1	2931.1	2892.0
19.5°	2854.2	2905.6	2958.0	2998.1	3019.1	3033.2	3027.2	2997.6	2947.5	2910.2	2870.1
20°	2830.9	2883.8	2937.5	2979.4	3000.8	3014.5	3008.6	2978.5	2927.5	2889.2	2847.8
20.5°	2806.8	2860.5	2916.6	2959.4	2982.2	2996.3	2989.4	2958.5	2906.5	2866.9	2825.0
21°	2782.2	2837.3	2895.2	2939.3	2962.6	2976.7	2969.9	2938.4	2886.0	2845.0	2801.8



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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°	2706.6	2764.9	2827.3	2876.0	2902.9	2916.6	2907.9	2876.0	2819.5	2776.3	2728.9
23°	2680.6	2738.9	2804.1	2854.2	2881.5	2895.2	2886.5	2854.2	2797.2	2752.6	2703.8
23.5°	2654.7	2713.9	2780.4	2831.8	2859.6	2874.2	2864.2	2831.4	2774.9	2728.0	2678.3
24°	2628.2	2687.4	2755.3	2809.1	2838.2	2851.9	2841.4	2808.6	2752.1	2703.4	2652.8
24.5°	2601.4	2661.5	2730.3	2785.8	2815.9	2829.1	2818.2	2785.8	2728.9	2678.3	2626.4
25°	2574.0	2634.6	2704.8	2761.7	2793.1	2805.9	2795.4	2762.1	2704.8	2652.8	2599.1
25.5°	2544.9	2607.7	2679.2	2738.0	2770.8	2783.1	2771.3	2738.5	2679.7	2627.3	2572.2
26°	2514.8	2580.9	2653.3	2713.4	2748.0	2759.4	2747.1	2714.8	2653.3	2601.8	2544.9
26.5°	2484.3	2553.5	2626.4	2689.3	2723.9	2734.8	2722.1	2690.6	2625.5	2574.9	2517.1
27°	2452.9	2524.8	2599.5	2664.2	2698.4	2710.2	2697.5	2665.6	2596.8	2547.6	2488.8
27.5°	2420.5	2494.8	2571.7	2638.3	2672.0	2686.1	2672.0	2639.6	2567.2	2519.4	2459.7
28°	2387.7	2463.8	2544.0	2611.8	2644.2	2661.0	2646.0	2611.8	2537.1	2488.8	2431.0
28.5°	2354.5	2432.8	2516.2	2585.4	2615.5	2634.6	2619.6	2583.6	2506.2	2458.8	2402.3
29°	2319.4	2400.5	2487.0	2557.6	2586.3	2607.3	2593.6	2554.9	2474.7	2428.3	2373.2
29.5°	2285.2	2369.1	2458.8	2528.9	2555.8	2579.0	2566.3	2525.3	2441.5	2396.8	2343.5
30°	2250.2	2335.8	2429.6	2498.4	2524.4	2550.3	2539.0	2493.9	2408.2	2364.5	2313.0
30.5°	2214.2	2302.5	2400.9	2467.9	2492.0	2519.8	2511.2	2462.4	2374.5	2331.7	2283.4
31°	2178.2	2267.9	2370.9	2436.5	2459.2	2490.2	2483.8	2430.5	2340.4	2298.5	2253.4
31.5°	2141.8	2234.7	2341.7	2404.6	2425.5	2458.3	2455.1	2398.2	2305.7	2264.7	2222.8
32°	2105.8	2199.2	2311.2	2371.8	2391.8	2426.4	2426.9	2365.4	2270.2	2231.0	2191.9
32.5°	2068.9	2165.4	2281.1	2337.6	2357.7	2393.6	2398.2	2331.7	2235.1	2197.8	2160.9
33°	2031.1	2130.4	2250.6	2304.4	2322.6	2361.3	2369.5	2297.1	2198.7	2162.7	2129.0
33.5°	1993.3	2094.8	2220.1	2268.8	2286.6	2327.1	2340.4	2262.5	2161.8	2128.5	2096.2
34°	1955.5	2058.9	2186.9	2235.6	2251.5	2293.4	2310.7	2227.8	2124.4	2094.4	2063.4
34.5°	1916.3	2023.8	2155.9	2200.1	2215.1	2259.7	2280.7	2192.8	2085.3	2059.3	2028.8
35°	1876.7	1986.9	2123.1	2165.0	2178.7	2225.6	2250.2	2157.2	2047.0	2023.3	1995.1
35.5°	1839.3	1950.4	2091.2	2129.0	2140.4	2190.5	2218.7	2121.3	2008.8	1987.8	1960.5
36°	1799.2	1914.0	2057.5	2095.3	2102.6	2156.3	2186.4	2084.8	1970.9	1951.8	1926.3
36.5°	1764.1	1876.7	2024.2	2059.3	2064.3	2121.3	2153.6	2047.9	1930.9	1915.4	1892.1
37°	1706.8	1839.3	1990.1	2023.3	2025.2	2084.4	2120.3	2011.0	1887.1	1878.5	1856.6
37.5°	1648.9	1802.0	1956.8	1986.4	1986.4	2048.8	2086.6	1972.8	1832.5	1842.0	1822.0
38°	1573.3	1764.6	1922.2	1950.0	1945.0	2011.9	2052.9	1935.4	1770.5	1805.1	1787.8
38.5°	1503.6	1727.7	1888.5	1912.2	1903.1	1975.0	2018.8	1898.5	1700.4	1767.8	1754.6
39°	1433.0	1689.9	1853.4	1876.7	1848.0	1938.6	1984.2	1860.3	1624.8	1725.9	1720.0
39.5°	1361.5	1630.7	1819.7	1838.9	1790.1	1900.8	1949.5	1823.4	1544.6	1674.9	1686.3
40°	1285.4	1564.2	1785.6	1802.0	1721.3	1863.9	1914.9	1769.6	1466.7	1616.6	1653.5
40.5°	1210.7	1494.5	1751.9	1765.1	1644.8	1826.6	1880.8	1714.0	1392.0	1550.1	1622.0
41°	1134.6	1426.2	1718.1	1715.0	1566.9	1774.6	1845.7	1650.3	1316.8	1480.4	1590.6
41.5°	1060.4	1358.3	1685.3	1667.1	1488.6	1725.9	1812.9	1580.6	1244.9	1408.4	1560.1
42°	989.8	1289.1	1653.0	1607.0	1411.1	1663.0	1779.2	1509.1	1169.3	1336.0	1528.7
42.5°	923.8	1216.6	1621.1	1542.8	1335.5	1596.1	1746.8	1433.0	1096.8	1266.7	1498.6
43°	857.7	1143.8	1589.7	1474.0	1262.6	1524.1	1715.4	1362.9	1021.2	1198.4	1467.2
43.5°	790.3	1071.8	1557.4	1402.0	1188.9	1449.9	1683.5	1292.3	949.7	1131.0	1436.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	597.6	870.9	1464.4	1192.0	967.5	1234.4	1590.1	1083.6	747.5	926.9	1344.6
45.5°	539.3	805.8	1433.5	1126.0	897.3	1164.7	1558.7	1013.0	682.8	860.9	1313.7
46°	483.7	742.0	1402.0	1059.5	829.9	1095.5	1526.4	944.3	620.4	796.2	1284.1
46.5°	428.2	679.1	1371.5	992.1	763.4	1024.9	1495.9	876.8	559.4	735.6	1234.9
47°	376.7	616.3	1334.6	924.2	698.3	953.4	1464.0	810.8	500.6	673.7	1176.6
47.5°	329.3	558.4	1287.7	858.2	634.1	885.9	1431.2	747.5	450.5	614.9	1108.2
48°	286.1	502.4	1232.6	794.4	573.5	820.4	1398.4	686.0	400.8	556.6	1032.6
48.5°	248.7	448.7	1172.5	732.9	514.7	756.1	1353.3	624.9	351.2	502.0	957.5
49°	216.4	397.2	1115.1	673.7	464.6	692.8	1295.4	564.8	301.5	452.3	880.5
49.5°	189.0	348.5	1047.6	614.5	415.0	631.3	1235.3	507.9	260.1	402.7	805.8
50°	165.8	302.5	982.1	556.2	364.9	570.3	1164.3	459.1	223.2	352.6	732.4
50.5°	147.6	260.5	909.2	499.7	315.2	513.8	1088.2	410.4	189.5	303.4	664.1
51°	128.9	225.0	833.1	445.9	266.0	463.7	1009.4	362.1	159.9	262.8	596.7
51.5°	110.7	194.5	759.3	394.9	228.2	413.6	930.1	313.4	133.9	225.5	534.8
52°	92.5	169.0	687.8	348.0	192.2	363.5	853.2	265.1	109.3	190.9	482.8
52.5°	74.2	149.9	618.1	302.9	159.9	313.4	779.4	226.4	87.5	159.4	431.4
53°	64.7	131.2	555.3	261.0	132.1	263.7	709.2	191.3	70.1	132.1	379.9
53.5°	61.5	112.1	493.8	221.8	107.5	224.1	640.4	160.8	62.4	108.0	328.0
54°	59.2	93.4	436.4	187.2	84.3	187.7	575.8	133.5	59.7	86.1	276.5
54.5°	56.9	74.7	381.7	154.4	67.4	156.7	512.9	109.3	57.4	66.5	236.4
55°	54.7	61.0	333.4	130.7	61.5	128.0	458.2	87.0	54.7	53.3	201.8
55.5°	52.4	55.1	287.0	107.5	59.2	102.5	404.5	67.0	52.4	51.0	170.8
56°	50.1	52.8	245.5	83.8	56.5	79.7	350.3	54.2	50.6	49.2	143.9
56.5°	48.3	50.6	208.6	60.6	53.7	61.0	296.1	51.9	48.3	47.4	120.3
57°	46.5	48.7	175.8	51.9	51.5	52.4	253.3	49.6	46.5	45.5	100.7
57.5°	44.6	46.9	149.4	50.1	49.6	50.1	214.1	47.8	44.6	43.7	84.7
58°	42.8	45.1	130.3	48.3	47.4	48.3	178.6	46.0	42.8	42.4	72.0
58.5°	41.0	43.7	111.1	46.5	45.5	46.5	147.6	44.6	41.0	40.5	61.9
59°	39.2	41.9	92.0	44.6	43.7	44.6	120.3	42.8	39.2	39.2	53.7
59.5°	37.8	40.5	72.9	43.3	41.9	42.8	97.5	41.5	37.8	37.8	47.8
60°	36.4	39.2	63.3	41.5	40.1	41.5	80.2	40.1	36.4	36.4	43.3
60.5°	35.1	37.8	55.1	40.1	38.3	40.1	67.0	38.3	34.6	35.5	39.2
61°	33.7	36.4	48.7	38.7	36.9	38.3	56.9	37.4	33.3	34.2	36.9
61.5°	32.3	35.1	43.3	37.4	35.5	36.9	49.6	36.0	31.9	32.8	35.5
62°	31.0	33.7	39.6	36.0	34.2	36.0	44.2	34.6	30.5	31.9	34.2
62.5°	29.6	32.8	36.9	34.6	32.8	34.6	40.1	33.3	29.2	30.5	32.8
63°	28.2	31.4	35.5	33.7	31.0	33.3	36.9	32.3	27.8	29.6	31.4
63.5°	27.3	30.5	34.6	32.3	29.6	31.9	35.5	31.0	26.9	28.2	30.5
64°	26.0	29.2	33.3	31.0	28.7	31.0	34.2	30.1	25.5	27.3	29.2
64.5°	25.1	28.2	32.3	30.1	27.3	29.6	32.8	28.7	24.6	26.4	28.2
65°	24.1	27.3	31.0	29.2	26.0	28.7	31.4	27.8	23.7	25.5	27.3
65.5°	23.2	26.4	30.1	27.8	25.1	27.8	30.1	26.9	22.3	24.6	26.4
66°	21.9	25.1	28.7	26.9	24.1	26.4	29.2	25.5	21.4	23.7	25.5



TEST NUMBER: P776800

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	19.6	22.3	26.0	24.1	21.0	23.7	26.4	22.8	18.7	21.0	22.8
68°	18.7	21.4	25.1	23.2	20.0	22.8	25.1	21.9	18.2	20.0	21.9
68.5°	17.8	21.0	24.1	22.3	19.1	21.9	24.1	21.0	17.3	19.1	21.0
69°	16.9	20.0	23.2	21.4	18.2	21.0	23.2	20.5	16.4	18.7	20.0
69.5°	16.4	19.1	22.3	20.5	17.8	20.5	22.3	19.6	15.9	17.8	19.1
70°	15.5	18.2	21.4	19.6	16.9	19.6	21.4	18.7	15.0	16.9	18.2
70.5°	15.0	17.8	20.5	19.1	15.9	18.7	21.0	17.8	14.6	16.4	17.8
71°	14.1	16.9	19.6	18.2	15.5	18.2	20.0	17.3	13.7	15.5	16.9
71.5°	13.7	16.4	18.7	17.3	14.6	17.3	19.1	16.4	13.2	15.0	15.9
72°	12.8	15.5	18.2	16.9	14.1	16.4	18.2	15.9	12.3	14.1	15.5
72.5°	12.3	15.0	17.3	15.9	13.2	15.9	17.3	15.0	11.8	13.7	14.6
73°	11.8	14.1	16.4	15.5	12.8	15.0	16.9	14.6	11.4	13.2	14.1
73.5°	10.9	13.7	15.9	14.6	12.3	14.6	15.9	13.7	10.9	12.3	13.2
74°	10.5	12.8	15.0	14.1	11.8	14.1	15.5	13.2	10.0	11.8	12.8
74.5°	10.0	12.3	14.1	13.2	10.9	13.2	14.6	12.8	9.6	11.4	11.8
75°	9.6	11.8	13.7	12.8	10.5	12.8	14.1	11.8	9.1	10.5	11.4
75.5°	9.1	10.9	12.8	12.3	10.0	12.3	13.2	11.4	8.7	10.0	10.9
76°	8.7	10.5	12.3	11.8	9.6	11.8	12.8	10.9	8.2	9.6	10.0
76.5°	8.2	10.0	11.8	10.9	9.1	10.9	11.8	10.0	7.7	9.1	9.6
77°	7.7	9.6	10.9	10.5	8.7	10.5	11.4	9.6	7.3	8.7	9.1
77.5°	7.3	9.1	10.5	10.0	8.2	10.0	10.9	9.1	6.8	8.2	8.7
78°	6.8	8.7	10.0	9.6	7.7	9.6	10.0	8.7	6.4	7.7	7.7
78.5°	6.4	7.7	9.1	9.1	7.3	9.1	9.6	8.2	5.9	6.8	7.3
79°	5.9	7.3	8.7	8.2	6.8	8.7	9.1	7.7	5.9	6.4	6.8
79.5°	5.5	6.8	8.2	7.7	6.4	8.2	8.7	7.3	5.5	5.9	6.4
80°	5.0	6.4	7.7	7.3	5.9	7.3	7.7	6.8	5.0	5.5	5.9
80.5°	4.6	5.9	7.3	6.8	5.9	6.8	7.3	5.9	4.6	5.0	5.5
81°	4.1	5.5	6.8	6.4	5.5	6.4	6.8	5.5	4.1	4.6	5.0
81.5°	4.1	5.0	5.9	5.9	5.0	6.4	6.4	5.5	4.1	4.6	4.6
82°	3.6	4.6	5.5	5.5	4.6	5.9	5.9	5.0	3.6	4.1	4.1
82.5°	3.2	4.1	5.0	5.0	4.1	5.5	5.5	4.6	3.2	3.6	3.6
83°	2.7	3.6	4.6	4.6	4.1	5.0	5.0	4.1	2.7	3.2	3.2
83.5°	2.7	3.2	4.1	4.1	3.6	4.6	4.6	3.6	2.7	2.7	2.7
84°	2.3	3.2	3.6	4.1	3.2	4.1	4.1	3.2	2.3	2.3	2.3
84.5°	1.8	2.7	3.2	3.6	3.2	3.6	3.6	2.7	1.8	1.8	2.3
85°	1.8	2.3	2.7	3.2	2.7	3.2	3.2	2.3	1.8	1.8	1.8
85.5°	1.4	1.8	2.7	2.7	2.7	3.2	2.7	1.8	1.4	1.4	1.4
86°	0.9	1.4	2.3	2.3	2.3	2.7	2.3	1.8	1.4	0.9	0.9
86.5°	0.9	0.9	1.8	2.3	1.8	2.3	2.3	1.4	0.9	0.9	0.9
87°	0.5	0.9	1.4	1.8	1.8	1.8	1.8	0.9	0.9	0.5	0.5
87.5°	0.5	0.5	1.4	1.4	1.4	1.8	1.4	0.9	0.5	0.5	0.5
88°	0.5	0.5	0.9	1.4	1.4	1.4	1.4	0.5	0.5	0.0	0.0
88.5°	0.0	0.5	0.5	0.9	0.9	0.9	0.9	0.5	0.5	0.0	0.0



TEST NUMBER: P776800
CATALOG NUMBER: HCDJBL54050CSD-HCD8TRH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776800

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3311.5	3311.5	3311.5	3311.5	3311.5	3311.5
0.5°	3310.6	3307.4	3308.7	3310.6	3311.5	3310.6
1°	3307.8	3304.2	3305.6	3307.4	3309.2	3308.7
1.5°	3304.6	3300.5	3301.9	3304.2	3306.0	3306.9
2°	3301.5	3296.9	3297.8	3300.5	3302.8	3304.6
2.5°	3297.8	3292.8	3293.7	3296.4	3299.2	3301.9
3°	3294.2	3287.8	3289.2	3291.4	3295.5	3298.7
3.5°	3289.2	3282.3	3283.2	3286.9	3291.0	3295.1
4°	3284.2	3276.0	3277.3	3281.4	3286.9	3291.4
4.5°	3278.2	3268.7	3270.0	3275.0	3281.9	3287.3
5°	3271.4	3260.9	3262.3	3268.7	3276.0	3282.3
5.5°	3264.1	3251.8	3253.6	3261.8	3270.0	3276.9
6°	3255.9	3243.2	3245.0	3254.1	3263.2	3270.5
6.5°	3247.3	3232.7	3235.0	3245.4	3255.9	3263.2
7°	3238.1	3222.2	3224.5	3236.3	3247.3	3255.0
7.5°	3227.7	3210.8	3213.1	3226.3	3238.1	3246.3
8°	3217.2	3199.4	3201.7	3215.8	3228.1	3236.3
8.5°	3206.3	3187.1	3189.9	3204.4	3216.7	3225.8
9°	3194.9	3174.4	3177.6	3192.1	3205.3	3215.4
9.5°	3183.0	3161.2	3164.4	3179.4	3193.1	3203.5
10°	3171.2	3148.0	3151.1	3165.7	3180.8	3192.1
10.5°	3158.0	3133.4	3137.0	3151.6	3167.5	3179.8
11°	3144.8	3118.3	3122.4	3136.6	3153.9	3166.6
11.5°	3131.1	3103.3	3107.4	3121.5	3139.3	3153.0
12°	3116.5	3086.9	3091.5	3105.6	3124.3	3138.4
12.5°	3101.0	3070.1	3075.1	3088.7	3108.3	3123.8
13°	3085.6	3052.8	3058.2	3071.9	3092.4	3108.3
13.5°	3068.7	3034.5	3040.5	3055.0	3075.5	3091.9
14°	3051.8	3016.3	3021.8	3036.8	3058.2	3075.1
14.5°	3034.5	2998.1	3003.1	3018.1	3039.5	3057.3
15°	3016.3	2978.5	2983.5	2999.5	3021.3	3040.0
15.5°	2998.1	2958.0	2963.9	2979.4	3001.7	3020.9
16°	2979.0	2938.0	2943.4	2959.4	2981.7	3001.7
16.5°	2959.4	2917.5	2922.9	2938.9	2961.7	2982.6
17°	2938.9	2896.1	2901.1	2917.0	2941.2	2962.6
17.5°	2918.4	2874.2	2879.2	2895.2	2919.3	2941.6
18°	2897.0	2851.0	2856.4	2872.4	2897.9	2920.7
18.5°	2875.1	2828.2	2833.7	2849.6	2875.1	2898.8
19°	2853.2	2804.5	2810.0	2826.4	2852.3	2876.5
19.5°	2830.0	2780.4	2785.4	2802.7	2829.1	2854.2
20°	2807.2	2755.8	2761.2	2778.1	2805.4	2830.9
20.5°	2783.1	2731.2	2735.7	2753.5	2781.3	2806.8
21°	2758.5	2706.1	2710.2	2728.4	2755.8	2782.2

TEST NUMBER: P776800

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2683.3	2629.1	2631.4	2650.1	2678.8	2706.6
23°	2657.8	2602.3	2604.1	2623.7	2651.5	2680.6
23.5°	2631.9	2575.4	2578.1	2596.8	2624.6	2654.7
24°	2605.9	2546.7	2549.9	2569.0	2597.7	2628.2
24.5°	2578.6	2517.5	2522.6	2540.8	2569.9	2601.4
25°	2551.7	2486.1	2493.9	2512.1	2542.1	2574.0
25.5°	2523.9	2454.7	2464.7	2483.8	2513.4	2544.9
26°	2495.7	2422.3	2433.7	2455.1	2485.2	2514.8
26.5°	2464.7	2389.6	2403.2	2426.0	2456.5	2484.3
27°	2433.7	2355.4	2370.9	2395.5	2426.9	2452.9
27.5°	2402.3	2321.2	2338.1	2365.4	2396.4	2420.5
28°	2369.5	2285.7	2303.9	2335.3	2364.5	2387.7
28.5°	2336.3	2250.2	2270.7	2303.9	2332.2	2354.5
29°	2302.5	2213.7	2236.5	2274.3	2299.8	2319.4
29.5°	2269.3	2178.7	2201.9	2243.8	2267.0	2285.2
30°	2234.2	2142.2	2166.4	2212.4	2231.9	2250.2
30.5°	2199.2	2104.9	2131.3	2180.5	2198.2	2214.2
31°	2163.6	2067.1	2095.3	2150.0	2163.6	2178.2
31.5°	2127.6	2030.6	2059.3	2117.6	2129.0	2141.8
32°	2092.1	1992.8	2022.9	2085.3	2093.0	2105.8
32.5°	2057.0	1954.5	1987.3	2051.6	2058.9	2068.9
33°	2020.6	1916.3	1950.9	2019.7	2023.8	2031.1
33.5°	1983.7	1876.7	1914.5	1986.4	1987.8	1993.3
34°	1946.8	1838.9	1877.1	1952.7	1952.3	1955.5
34.5°	1909.9	1799.7	1839.3	1918.1	1916.7	1916.3
35°	1873.0	1762.8	1802.4	1883.5	1880.8	1876.7
35.5°	1836.6	1718.6	1765.1	1849.3	1845.7	1839.3
36°	1798.8	1659.8	1727.3	1814.7	1808.8	1799.2
36.5°	1761.9	1589.7	1690.4	1780.1	1772.3	1764.1
37°	1725.0	1517.3	1654.8	1745.0	1735.9	1706.8
37.5°	1688.1	1446.7	1615.7	1710.4	1699.5	1648.9
38°	1654.4	1372.4	1559.2	1676.2	1663.0	1573.3
38.5°	1597.4	1299.1	1493.1	1642.5	1625.2	1503.6
39°	1535.0	1223.0	1425.7	1609.7	1592.9	1433.0
39.5°	1467.2	1146.9	1359.2	1576.0	1535.9	1361.5
40°	1399.3	1074.1	1292.3	1543.2	1477.6	1285.4
40.5°	1331.9	1002.1	1223.9	1511.3	1410.2	1210.7
41°	1261.7	933.8	1152.4	1479.9	1344.2	1134.6
41.5°	1191.1	867.3	1081.4	1448.5	1280.9	1060.4
42°	1118.3	800.8	1012.6	1417.1	1217.1	989.8
42.5°	1048.6	733.8	947.4	1387.0	1150.6	923.8
43°	980.2	669.6	883.7	1356.5	1081.8	857.7
43.5°	915.1	608.1	820.4	1326.4	1013.0	790.3

TEST NUMBER: P776800

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	724.2	437.3	635.9	1235.3	823.1	597.6
45.5°	662.3	385.8	577.1	1189.8	761.6	539.3
46°	600.8	336.2	522.9	1141.0	701.0	483.7
46.5°	543.9	292.9	468.3	1084.1	641.3	428.2
47°	489.7	253.7	416.3	1032.2	583.0	376.7
47.5°	440.0	220.0	365.8	968.8	527.5	329.3
48°	390.8	191.8	319.8	904.6	473.7	286.1
48.5°	341.2	168.5	277.9	830.4	422.2	248.7
49°	292.0	150.3	240.0	761.6	373.1	216.4
49.5°	251.4	132.1	206.8	693.3	326.1	189.0
50°	216.8	113.9	179.9	630.4	282.9	165.8
50.5°	186.3	95.7	155.8	569.4	243.2	147.6
51°	161.7	77.4	138.0	513.8	209.5	128.9
51.5°	140.7	65.1	120.3	458.7	181.3	110.7
52°	122.5	61.0	102.5	409.0	156.2	92.5
52.5°	105.2	58.3	84.7	360.3	138.0	74.2
53°	87.9	56.0	68.8	316.1	119.3	64.7
53.5°	71.5	53.7	56.5	274.7	101.1	61.5
54°	58.8	51.5	52.4	238.7	82.4	59.2
54.5°	52.4	49.2	50.6	205.0	66.5	56.9
55°	50.6	47.4	48.7	175.8	55.1	54.7
55.5°	48.7	45.5	46.9	155.3	51.9	52.4
56°	46.9	43.7	45.1	135.3	50.1	50.1
56.5°	45.1	41.9	43.3	115.2	48.3	48.3
57°	43.7	40.1	41.9	94.7	46.5	46.5
57.5°	41.9	38.3	40.1	75.2	44.6	44.6
58°	40.5	36.9	38.7	64.7	43.3	42.8
58.5°	39.2	35.5	37.4	56.0	41.9	41.0
59°	37.8	34.2	36.0	49.2	40.5	39.2
59.5°	36.4	32.8	34.6	43.7	39.2	37.8
60°	35.1	31.4	33.7	39.6	37.8	36.4
60.5°	34.2	30.1	32.3	37.4	36.4	35.1
61°	32.8	28.7	31.4	36.0	35.1	33.7
61.5°	31.4	27.8	30.1	34.6	33.7	32.3
62°	30.5	26.4	29.2	33.3	32.8	31.0
62.5°	29.2	25.5	27.8	32.3	31.4	29.6
63°	28.2	24.1	26.9	31.0	30.5	28.2
63.5°	27.3	23.2	26.0	30.1	29.2	27.3
64°	26.0	22.3	25.1	29.2	28.2	26.0
64.5°	25.1	21.4	24.1	27.8	27.3	25.1
65°	24.1	20.5	23.2	26.9	26.4	24.1
65.5°	23.2	19.6	22.3	26.0	25.1	23.2
66°	22.3	18.7	21.4	25.1	24.1	21.9



TEST NUMBER: P776800

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	20.0	16.4	19.1	22.3	21.4	19.6
68°	19.1	15.5	18.2	21.4	20.5	18.7
68.5°	18.2	15.0	17.8	20.5	20.0	17.8
69°	17.8	14.1	16.9	19.6	19.1	16.9
69.5°	16.9	13.7	16.4	19.1	18.2	16.4
70°	16.4	13.2	15.5	18.2	17.3	15.5
70.5°	15.5	12.3	15.0	17.3	16.9	15.0
71°	15.0	11.8	14.1	16.9	15.9	14.1
71.5°	14.1	11.4	13.7	15.9	15.5	13.7
72°	13.7	10.9	13.2	15.0	14.6	12.8
72.5°	13.2	10.0	12.3	14.6	14.1	12.3
73°	12.3	9.6	11.8	13.7	13.2	11.8
73.5°	11.8	9.1	11.4	13.2	12.8	10.9
74°	11.4	8.7	10.9	12.3	11.8	10.5
74.5°	10.5	8.2	10.0	11.8	11.4	10.0
75°	10.0	7.7	9.6	11.4	10.9	9.6
75.5°	9.6	7.3	9.1	10.5	10.5	9.1
76°	9.1	6.8	8.7	10.0	9.6	8.7
76.5°	8.7	6.8	8.2	9.6	9.1	8.2
77°	8.2	6.4	7.7	8.7	8.7	7.7
77.5°	7.7	5.9	7.3	8.2	8.2	7.3
78°	7.3	5.5	6.8	7.7	7.7	6.8
78.5°	6.8	5.0	6.4	7.3	6.8	6.4
79°	6.4	4.6	5.9	6.8	6.4	5.9
79.5°	5.9	4.6	5.5	6.4	5.9	5.5
80°	5.5	4.1	5.0	5.5	5.5	5.0
80.5°	5.0	3.6	4.6	5.0	5.0	4.6
81°	4.6	3.6	4.1	4.6	4.6	4.1
81.5°	4.1	3.2	3.6	4.1	4.1	4.1
82°	3.6	2.7	3.6	3.6	3.6	3.6
82.5°	3.2	2.7	3.2	3.6	3.2	3.2
83°	2.7	2.3	2.7	3.2	2.7	2.7
83.5°	2.7	1.8	2.3	2.7	2.3	2.7
84°	2.3	1.8	1.8	2.3	1.8	2.3
84.5°	1.8	1.4	1.8	1.8	1.8	1.8
85°	1.4	1.4	1.4	1.8	1.4	1.8
85.5°	1.4	0.9	0.9	1.4	0.9	1.4
86°	0.9	0.5	0.9	0.9	0.9	0.9
86.5°	0.5	0.5	0.5	0.9	0.5	0.9
87°	0.5	0.0	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.5	0.5
88°	0.0	0.0	0.0	0.0	0.0	0.5
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776800

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	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°	2757.1	2813.6	2872.8	2918.8	2943.0	2957.1	2949.4	2917.9	2864.2	2822.3	2778.1
22°	2732.1	2789.5	2850.1	2897.9	2922.9	2937.1	2929.3	2897.0	2842.3	2800.0	2753.9



44°	722.4	1002.1	1525.9	1331.0	1115.5	1376.5	1652.1	1223.0	879.1	1062.7	1404.8
44.5°	659.1	935.6	1494.9	1260.8	1041.3	1303.6	1621.1	1151.5	813.5	994.8	1375.2



66.5°	21.0	24.1	27.8	26.0	22.8	25.5	28.2	24.6	20.5	22.8	24.1
67°	20.0	23.2	26.9	25.1	21.9	24.6	27.3	23.7	19.6	21.9	23.2



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

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Scaled Data Report





21.5°	2733.5	2680.6	2684.3	2702.9	2730.3	2757.1
22°	2708.9	2654.7	2657.8	2677.0	2704.3	2732.1



44°	849.5	548.0	758.0	1296.4	946.1	722.4
44.5°	786.6	493.3	696.5	1265.8	884.6	659.1



66.5°	21.4	17.8	20.5	24.1	23.2	21.0
67°	21.0	17.3	20.0	23.2	22.3	20.0

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	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)