

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: P776803

Luminaire Tested: HCDJBL54050CSD-HCD8TRH-5000lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776803
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-4000K
Description: 8 INCH ROUND MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

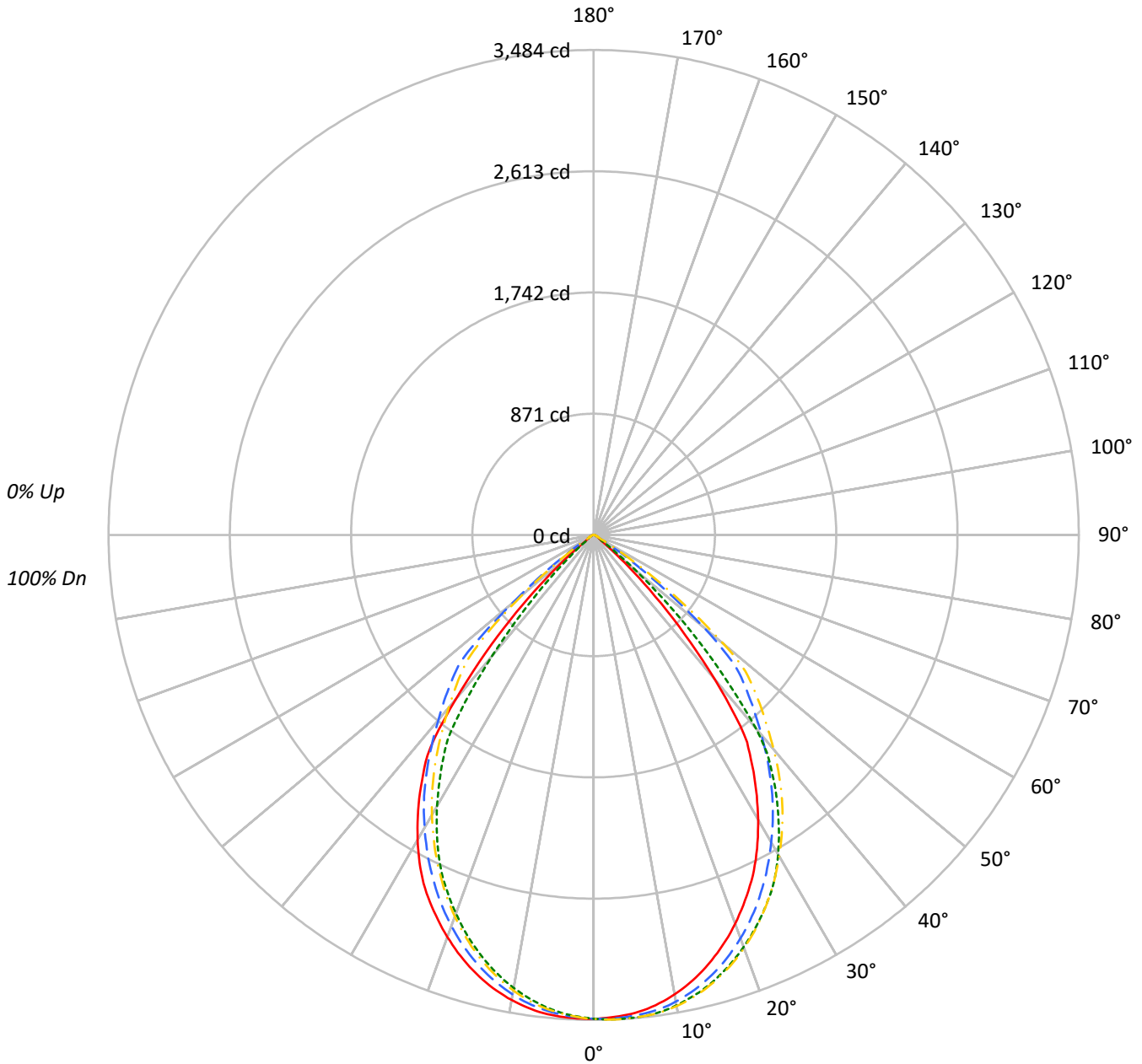
Lumens per Lamp: N/A
Luminaire Lumens: 4818.1 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: HCDJBLS4050CSD-HCD8TRH-5000lm-4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	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°	106129	106129	106129	106129
5°	105597	106651	106124	104907
10°	103882	106375	105172	102444
15°	100865	104917	103103	98826
20°	96549	102346	99844	93986
25°	91024	98772	95646	87915
30°	83272	93418	89120	79278
35°	73423	85238	80087	68969
40°	53780	72017	61364	44936
45°	27085	43850	33880	19818
50°	8264	18191	11128	5676
55°	3055	3439	3055	2645
60°	2339	2571	2339	2015
65°	1828	1972	1799	1553
70°	1455	1580	1410	1241
75°	1180	1298	1132	955
80°	932	1090	932	756
85°	666	1016	666	490

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 72070 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.2	6.8
10°-20°	908.2	18.9
20°-30°	1274.5	26.5
30°-40°	1308.8	27.2
40°-50°	800.2	16.6
50°-60°	155.4	3.2
60°-70°	28.3	0.6
70°-80°	12.6	0.3
80°-90°	2.7	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°	2510.0	52.1
0°-40°	3818.8	79.3
0°-60°	4774.5	99.1
0°-90°	4818.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4818.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3476	3476	3476	3476	3476	
5°	3446	3480	3463	3423	3446	326
15°	3191	3319	3262	3127	3191	896
25°	2702	2932	2839	2610	2702	1236
35°	1970	2287	2149	1850	1970	1204
45°	627	1016	785	459	627	505
55°	57	65	57	50	57	63
65°	25	27	25	22	25	26
75°	10	11	10	8	10	11
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°	3476.2	3476.2	3476.2	3476.2	3476.2	3476.2	3476.2	3476.2	3476.2	3476.2	3476.2
0.5°	3475.2	3474.8	3477.2	3479.1	3477.6	3479.1	3480.0	3480.0	3476.7	3474.3	3474.3
1°	3473.3	3474.3	3477.2	3480.5	3479.5	3481.0	3481.9	3481.0	3476.7	3472.8	3472.4
1.5°	3471.4	3473.3	3477.2	3481.5	3481.0	3482.9	3483.4	3481.5	3476.2	3471.4	3470.0
2°	3469.0	3471.9	3477.2	3481.9	3482.4	3483.8	3484.3	3481.5	3475.2	3469.5	3467.1
2.5°	3466.2	3470.0	3476.2	3481.9	3482.9	3484.8	3484.3	3481.5	3474.3	3467.1	3464.2
3°	3462.8	3467.6	3474.8	3481.0	3482.9	3484.8	3484.3	3481.0	3472.4	3464.7	3460.4
3.5°	3459.0	3464.7	3472.8	3479.5	3482.9	3484.8	3483.8	3479.5	3470.5	3461.4	3456.6
4°	3455.2	3461.9	3470.5	3478.1	3481.9	3483.8	3482.9	3478.6	3468.5	3458.5	3452.3
4.5°	3450.9	3458.5	3467.6	3476.2	3481.0	3482.9	3481.5	3477.2	3466.2	3455.2	3447.0
5°	3445.6	3454.7	3464.7	3474.3	3480.0	3481.5	3480.0	3474.8	3462.8	3450.9	3442.2
5.5°	3439.9	3449.9	3460.9	3471.9	3478.1	3480.0	3478.1	3471.9	3459.5	3446.6	3436.5
6°	3433.2	3444.6	3457.5	3469.0	3476.2	3478.1	3475.7	3469.0	3454.7	3441.3	3429.8
6.5°	3425.5	3437.9	3453.2	3465.7	3473.3	3475.7	3473.3	3464.7	3448.9	3435.1	3422.6
7°	3416.9	3431.3	3448.5	3461.4	3469.5	3472.4	3470.5	3459.9	3442.7	3428.4	3415.0
7.5°	3407.8	3423.1	3443.2	3456.1	3464.7	3468.5	3466.6	3453.7	3436.0	3420.3	3406.4
8°	3397.3	3414.5	3437.5	3450.4	3459.5	3463.8	3462.3	3448.0	3428.9	3412.6	3396.8
8.5°	3386.3	3404.5	3430.3	3444.2	3453.2	3458.0	3457.1	3441.3	3420.3	3403.5	3386.8
9°	3375.3	3394.9	3422.6	3437.0	3446.6	3452.3	3451.3	3433.6	3411.6	3393.5	3375.8
9.5°	3362.9	3383.9	3414.0	3429.3	3439.4	3445.1	3444.6	3425.5	3402.1	3383.4	3364.3
10°	3350.9	3373.4	3404.5	3421.2	3431.3	3437.9	3437.0	3416.9	3392.5	3372.9	3351.9
10.5°	3338.0	3361.4	3394.4	3412.1	3422.2	3430.3	3429.3	3408.3	3382.5	3361.4	3339.0
11°	3324.1	3349.5	3383.4	3402.6	3413.1	3421.2	3420.7	3398.7	3371.5	3350.0	3326.1
11.5°	3309.8	3336.6	3372.0	3392.0	3403.5	3411.6	3411.2	3388.7	3360.0	3337.1	3311.7
12°	3294.5	3323.7	3359.5	3381.5	3393.5	3402.1	3400.6	3378.2	3348.1	3324.1	3297.4
12.5°	3279.2	3309.8	3347.1	3370.0	3382.5	3392.0	3389.7	3367.2	3335.1	3310.3	3282.1
13°	3262.9	3295.5	3333.7	3358.6	3371.5	3381.5	3378.7	3355.2	3322.2	3295.9	3266.8
13.5°	3245.7	3280.6	3319.4	3346.1	3359.0	3370.0	3366.7	3343.3	3307.9	3281.1	3251.0
14°	3228.0	3264.9	3305.0	3333.2	3346.6	3358.1	3353.8	3330.4	3293.5	3265.8	3233.8
14.5°	3209.4	3247.6	3289.7	3319.4	3333.2	3345.2	3340.9	3316.5	3277.8	3249.1	3217.0
15°	3191.2	3230.9	3273.9	3304.5	3319.4	3331.8	3327.0	3302.6	3262.0	3232.3	3199.3
15.5°	3171.1	3213.2	3257.7	3289.2	3305.0	3317.4	3312.7	3287.8	3245.7	3215.1	3181.2
16°	3151.1	3194.6	3240.9	3273.9	3290.2	3303.1	3297.8	3272.0	3228.5	3197.0	3162.0
16.5°	3131.0	3175.9	3223.3	3258.2	3274.4	3288.3	3283.0	3255.3	3210.8	3178.3	3142.4
17°	3109.9	3156.8	3205.1	3241.4	3258.2	3272.5	3266.8	3239.5	3193.1	3158.7	3121.9
17.5°	3087.9	3136.7	3186.0	3223.3	3241.4	3255.8	3250.0	3221.8	3174.0	3139.1	3101.3
18°	3065.9	3115.7	3166.8	3205.1	3224.2	3239.0	3233.3	3203.6	3154.9	3119.0	3080.3
18.5°	3043.0	3094.2	3146.7	3186.4	3206.0	3221.3	3215.1	3185.5	3134.8	3098.0	3057.8
19°	3019.6	3072.6	3126.2	3167.3	3187.9	3202.7	3196.5	3166.4	3114.7	3076.9	3035.8
19.5°	2996.1	3050.2	3105.1	3147.2	3169.2	3184.0	3177.8	3146.7	3094.2	3054.9	3012.9
20°	2971.7	3027.2	3083.6	3127.6	3150.1	3164.4	3158.2	3126.7	3073.1	3032.9	2989.4
20.5°	2946.4	3002.8	3061.6	3106.6	3130.5	3145.3	3138.1	3105.6	3051.1	3009.5	2965.5
21°	2920.6	2978.4	3039.2	3085.5	3109.9	3124.8	3117.6	3084.6	3029.6	2986.6	2941.1



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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°	2841.2	2902.4	2967.9	3019.1	3047.3	3061.6	3052.6	3019.1	2959.8	2914.4	2864.6
23°	2814.0	2875.2	2943.5	2996.1	3024.8	3039.2	3030.1	2996.1	2936.4	2889.5	2838.3
23.5°	2786.7	2848.9	2918.7	2972.7	3001.9	3017.2	3006.6	2972.2	2912.9	2863.7	2811.6
24°	2759.0	2821.1	2892.4	2948.8	2979.4	2993.7	2982.7	2948.3	2889.0	2837.9	2784.8
24.5°	2730.8	2793.9	2866.1	2924.4	2956.0	2969.8	2958.4	2924.4	2864.6	2811.6	2757.0
25°	2702.1	2765.7	2839.3	2899.1	2932.1	2945.4	2934.4	2899.5	2839.3	2784.8	2728.4
25.5°	2671.5	2737.4	2812.5	2874.2	2908.6	2921.5	2909.1	2874.7	2813.0	2758.0	2700.1
26°	2639.9	2709.2	2785.3	2848.4	2884.7	2896.7	2883.8	2849.8	2785.3	2731.2	2671.5
26.5°	2607.9	2680.5	2757.0	2823.0	2859.4	2870.9	2857.5	2824.5	2756.1	2703.0	2642.3
27°	2574.9	2650.4	2728.8	2796.7	2832.6	2845.0	2831.6	2798.2	2726.0	2674.3	2612.6
27.5°	2540.9	2618.9	2699.7	2769.5	2804.9	2819.7	2804.9	2770.9	2694.9	2644.7	2582.0
28°	2506.5	2586.3	2670.5	2741.7	2775.7	2793.4	2777.6	2741.7	2663.3	2612.6	2551.9
28.5°	2471.6	2553.8	2641.3	2714.0	2745.6	2765.7	2749.9	2712.1	2630.8	2581.1	2521.8
29°	2434.8	2519.9	2610.7	2684.8	2715.0	2737.0	2722.6	2682.0	2597.8	2549.1	2491.2
29.5°	2398.9	2486.9	2581.1	2654.7	2682.9	2707.3	2693.9	2650.9	2562.9	2516.1	2460.1
30°	2362.1	2452.0	2550.5	2622.7	2649.9	2677.2	2665.2	2617.9	2528.0	2482.1	2428.1
30.5°	2324.3	2417.1	2520.4	2590.7	2616.0	2645.2	2636.1	2584.9	2492.6	2447.7	2397.0
31°	2286.5	2380.7	2488.8	2557.7	2581.6	2614.1	2607.4	2551.4	2456.8	2412.8	2365.4
31.5°	2248.3	2345.8	2458.2	2524.2	2546.2	2580.6	2577.3	2517.5	2420.4	2377.4	2333.4
32°	2210.5	2308.5	2426.2	2489.8	2510.8	2547.1	2547.6	2483.1	2383.1	2342.0	2300.9
32.5°	2171.8	2273.2	2394.6	2453.9	2474.9	2512.7	2517.5	2447.7	2346.3	2307.1	2268.4
33°	2132.1	2236.3	2362.6	2419.0	2438.1	2478.8	2487.4	2411.3	2308.1	2270.3	2234.9
33.5°	2092.4	2199.0	2330.5	2381.7	2400.3	2442.9	2456.8	2375.0	2269.3	2234.4	2200.5
34°	2052.7	2161.3	2295.6	2346.8	2363.5	2407.5	2425.7	2338.7	2230.1	2198.6	2166.0
34.5°	2011.6	2124.4	2263.1	2309.5	2325.3	2372.1	2394.1	2301.8	2189.0	2161.7	2129.7
35°	1970.0	2085.7	2228.7	2272.7	2287.0	2336.3	2362.1	2264.5	2148.8	2124.0	2094.3
35.5°	1930.8	2047.5	2195.2	2234.9	2246.9	2299.5	2329.1	2226.8	2108.7	2086.7	2058.0
36°	1888.7	2009.2	2159.8	2199.5	2207.2	2263.6	2295.2	2188.5	2069.0	2048.9	2022.1
36.5°	1851.9	1970.0	2124.9	2161.7	2167.0	2226.8	2260.7	2149.8	2026.9	2010.6	1986.3
37°	1791.7	1930.8	2089.1	2124.0	2125.9	2188.0	2225.8	2111.1	1981.0	1971.9	1949.0
37.5°	1730.9	1891.6	2054.2	2085.2	2085.2	2150.7	2190.4	2070.9	1923.6	1933.7	1912.6
38°	1651.6	1852.4	2017.8	2047.0	2041.7	2112.0	2155.1	2031.7	1858.6	1894.9	1876.8
38.5°	1578.4	1813.6	1982.4	2007.3	1997.7	2073.3	2119.2	1993.0	1785.0	1855.7	1841.9
39°	1504.3	1774.0	1945.6	1970.0	1939.9	2035.0	2082.8	1952.8	1705.6	1811.7	1805.5
39.5°	1429.2	1711.8	1910.2	1930.3	1879.2	1995.3	2046.5	1914.1	1621.4	1758.2	1770.1
40°	1349.4	1642.0	1874.4	1891.6	1807.0	1956.6	2010.2	1857.6	1539.7	1697.0	1735.7
40.5°	1270.9	1568.8	1839.0	1852.9	1726.6	1917.4	1974.3	1799.3	1461.2	1627.2	1702.7
41°	1191.1	1497.1	1803.6	1800.3	1644.9	1862.9	1937.5	1732.4	1382.4	1554.0	1669.7
41.5°	1113.1	1425.9	1769.2	1750.1	1562.6	1811.7	1903.1	1659.2	1306.8	1478.5	1637.7
42°	1039.0	1353.2	1735.2	1686.9	1481.3	1745.7	1867.7	1584.1	1227.4	1402.4	1604.7
42.5°	969.7	1277.2	1701.8	1619.5	1402.0	1675.5	1833.7	1504.3	1151.4	1329.8	1573.1
43°	900.4	1200.7	1668.8	1547.3	1325.4	1599.9	1800.7	1430.6	1072.0	1258.0	1540.1
43.5°	829.6	1125.1	1634.8	1471.8	1248.0	1522.0	1767.3	1356.5	997.0	1187.3	1508.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	627.3	914.2	1537.3	1251.3	1015.6	1295.8	1669.2	1137.5	784.7	973.0	1411.5
45.5°	566.1	845.9	1504.8	1182.0	942.0	1222.6	1636.3	1063.4	716.8	903.7	1379.0
46°	507.8	778.9	1471.8	1112.2	871.2	1150.0	1602.3	991.2	651.2	835.8	1347.9
46.5°	449.5	712.9	1439.7	1041.4	801.4	1075.9	1570.3	920.5	587.2	772.2	1296.3
47°	395.4	646.9	1401.0	970.2	733.0	1000.8	1536.8	851.1	525.5	707.2	1235.1
47.5°	345.7	586.2	1351.7	900.8	665.6	930.0	1502.4	784.7	472.9	645.5	1163.4
48°	300.3	527.4	1293.9	833.9	602.0	861.2	1467.9	720.1	420.8	584.3	1084.0
48.5°	261.1	471.0	1230.8	769.4	540.3	793.7	1420.6	656.0	368.7	526.9	1005.1
49°	227.1	417.0	1170.5	707.2	487.7	727.3	1359.9	592.9	316.5	474.8	924.3
49.5°	198.4	365.8	1099.8	645.0	435.6	662.7	1296.8	533.1	273.0	422.7	845.9
50°	174.0	317.5	1030.9	583.8	383.0	598.7	1222.2	482.0	234.3	370.1	768.9
50.5°	154.9	273.5	954.4	524.5	330.9	539.4	1142.3	430.8	198.9	318.5	697.2
51°	135.3	236.2	874.5	468.1	279.2	486.8	1059.6	380.1	167.8	275.9	626.4
51.5°	116.2	204.2	797.1	414.6	239.6	434.2	976.4	329.0	140.6	236.7	561.4
52°	97.1	177.4	722.0	365.3	201.8	381.6	895.6	278.3	114.8	200.3	506.8
52.5°	77.9	157.3	648.9	318.0	167.8	329.0	818.1	237.6	91.8	167.4	452.8
53°	67.9	137.7	582.9	274.0	138.7	276.9	744.5	200.8	73.6	138.7	398.8
53.5°	64.6	117.6	518.3	232.9	112.8	235.3	672.3	168.8	65.5	113.3	344.3
54°	62.2	98.0	458.1	196.5	88.5	197.0	604.4	140.1	62.6	90.4	290.2
54.5°	59.8	78.4	400.7	162.1	70.8	164.5	538.4	114.8	60.2	69.8	248.2
55°	57.4	64.1	350.0	137.2	64.6	134.4	481.0	91.3	57.4	55.9	211.8
55.5°	55.0	57.9	301.2	112.8	62.2	107.6	424.6	70.3	55.0	53.6	179.3
56°	52.6	55.5	257.7	88.0	59.3	83.7	367.7	56.9	53.1	51.6	151.1
56.5°	50.7	53.1	219.0	63.6	56.4	64.1	310.8	54.5	50.7	49.7	126.2
57°	48.8	51.2	184.6	54.5	54.0	55.0	265.9	52.1	48.8	47.8	105.7
57.5°	46.9	49.3	156.8	52.6	52.1	52.6	224.7	50.2	46.9	45.9	88.9
58°	44.9	47.3	136.8	50.7	49.7	50.7	187.4	48.3	44.9	44.5	75.5
58.5°	43.0	45.9	116.7	48.8	47.8	48.8	154.9	46.9	43.0	42.6	65.0
59°	41.1	44.0	96.6	46.9	45.9	46.9	126.2	44.9	41.1	41.1	56.4
59.5°	39.7	42.6	76.5	45.4	44.0	44.9	102.3	43.5	39.7	39.7	50.2
60°	38.3	41.1	66.5	43.5	42.1	43.5	84.2	42.1	38.3	38.3	45.4
60.5°	36.8	39.7	57.9	42.1	40.2	42.1	70.3	40.2	36.3	37.3	41.1
61°	35.4	38.3	51.2	40.6	38.7	40.2	59.8	39.2	34.9	35.9	38.7
61.5°	33.9	36.8	45.4	39.2	37.3	38.7	52.1	37.8	33.5	34.4	37.3
62°	32.5	35.4	41.6	37.8	35.9	37.8	46.4	36.3	32.0	33.5	35.9
62.5°	31.1	34.4	38.7	36.3	34.4	36.3	42.1	34.9	30.6	32.0	34.4
63°	29.6	33.0	37.3	35.4	32.5	34.9	38.7	33.9	29.2	31.1	33.0
63.5°	28.7	32.0	36.3	33.9	31.1	33.5	37.3	32.5	28.2	29.6	32.0
64°	27.3	30.6	34.9	32.5	30.1	32.5	35.9	31.6	26.8	28.7	30.6
64.5°	26.3	29.6	33.9	31.6	28.7	31.1	34.4	30.1	25.8	27.7	29.6
65°	25.3	28.7	32.5	30.6	27.3	30.1	33.0	29.2	24.9	26.8	28.7
65.5°	24.4	27.7	31.6	29.2	26.3	29.2	31.6	28.2	23.4	25.8	27.7
66°	23.0	26.3	30.1	28.2	25.3	27.7	30.6	26.8	22.5	24.9	26.8



TEST NUMBER: P776803

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRH-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	20.6	23.4	27.3	25.3	22.0	24.9	27.7	23.9	19.6	22.0	23.9
68°	19.6	22.5	26.3	24.4	21.0	23.9	26.3	23.0	19.1	21.0	23.0
68.5°	18.6	22.0	25.3	23.4	20.1	23.0	25.3	22.0	18.2	20.1	22.0
69°	17.7	21.0	24.4	22.5	19.1	22.0	24.4	21.5	17.2	19.6	21.0
69.5°	17.2	20.1	23.4	21.5	18.6	21.5	23.4	20.6	16.7	18.6	20.1
70°	16.3	19.1	22.5	20.6	17.7	20.6	22.5	19.6	15.8	17.7	19.1
70.5°	15.8	18.6	21.5	20.1	16.7	19.6	22.0	18.6	15.3	17.2	18.6
71°	14.8	17.7	20.6	19.1	16.3	19.1	21.0	18.2	14.3	16.3	17.7
71.5°	14.3	17.2	19.6	18.2	15.3	18.2	20.1	17.2	13.9	15.8	16.7
72°	13.4	16.3	19.1	17.7	14.8	17.2	19.1	16.7	12.9	14.8	16.3
72.5°	12.9	15.8	18.2	16.7	13.9	16.7	18.2	15.8	12.4	14.3	15.3
73°	12.4	14.8	17.2	16.3	13.4	15.8	17.7	15.3	12.0	13.9	14.8
73.5°	11.5	14.3	16.7	15.3	12.9	15.3	16.7	14.3	11.5	12.9	13.9
74°	11.0	13.4	15.8	14.8	12.4	14.8	16.3	13.9	10.5	12.4	13.4
74.5°	10.5	12.9	14.8	13.9	11.5	13.9	15.3	13.4	10.0	12.0	12.4
75°	10.0	12.4	14.3	13.4	11.0	13.4	14.8	12.4	9.6	11.0	12.0
75.5°	9.6	11.5	13.4	12.9	10.5	12.9	13.9	12.0	9.1	10.5	11.5
76°	9.1	11.0	12.9	12.4	10.0	12.4	13.4	11.5	8.6	10.0	10.5
76.5°	8.6	10.5	12.4	11.5	9.6	11.5	12.4	10.5	8.1	9.6	10.0
77°	8.1	10.0	11.5	11.0	9.1	11.0	12.0	10.0	7.7	9.1	9.6
77.5°	7.7	9.6	11.0	10.5	8.6	10.5	11.5	9.6	7.2	8.6	9.1
78°	7.2	9.1	10.5	10.0	8.1	10.0	10.5	9.1	6.7	8.1	8.1
78.5°	6.7	8.1	9.6	9.6	7.7	9.6	10.0	8.6	6.2	7.2	7.7
79°	6.2	7.7	9.1	8.6	7.2	9.1	9.6	8.1	6.2	6.7	7.2
79.5°	5.7	7.2	8.6	8.1	6.7	8.6	9.1	7.7	5.7	6.2	6.7
80°	5.3	6.7	8.1	7.7	6.2	7.7	8.1	7.2	5.3	5.7	6.2
80.5°	4.8	6.2	7.7	7.2	6.2	7.2	7.7	6.2	4.8	5.3	5.7
81°	4.3	5.7	7.2	6.7	5.7	6.7	7.2	5.7	4.3	4.8	5.3
81.5°	4.3	5.3	6.2	6.2	5.3	6.7	6.7	5.7	4.3	4.8	4.8
82°	3.8	4.8	5.7	5.7	4.8	6.2	6.2	5.3	3.8	4.3	4.3
82.5°	3.3	4.3	5.3	5.3	4.3	5.7	5.7	4.8	3.3	3.8	3.8
83°	2.9	3.8	4.8	4.8	4.3	5.3	5.3	4.3	2.9	3.3	3.3
83.5°	2.9	3.3	4.3	4.3	3.8	4.8	4.8	3.8	2.9	2.9	2.9
84°	2.4	3.3	3.8	4.3	3.3	4.3	4.3	3.3	2.4	2.4	2.4
84.5°	1.9	2.9	3.3	3.8	3.3	3.8	3.8	2.9	1.9	1.9	2.4
85°	1.9	2.4	2.9	3.3	2.9	3.3	3.3	2.4	1.9	1.9	1.9
85.5°	1.4	1.9	2.9	2.9	2.9	3.3	2.9	1.9	1.4	1.4	1.4
86°	1.0	1.4	2.4	2.4	2.4	2.9	2.4	1.9	1.4	1.0	1.0
86.5°	1.0	1.0	1.9	2.4	1.9	2.4	2.4	1.4	1.0	1.0	1.0
87°	0.5	1.0	1.4	1.9	1.9	1.9	1.9	1.0	1.0	0.5	0.5
87.5°	0.5	0.5	1.4	1.4	1.4	1.9	1.4	1.0	0.5	0.5	0.5
88°	0.5	0.5	1.0	1.4	1.4	1.4	1.4	0.5	0.5	0.0	0.0
88.5°	0.0	0.5	0.5	1.0	1.0	1.0	1.0	0.5	0.5	0.0	0.0



TEST NUMBER: P776803
CATALOG NUMBER: HCDJBL54050CSD-HCD8TRH-5000lm-4000K

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: P776803

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRH-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3476.2	3476.2	3476.2	3476.2	3476.2	3476.2
0.5°	3475.2	3471.9	3473.3	3475.2	3476.2	3475.2
1°	3472.4	3468.5	3470.0	3471.9	3473.8	3473.3
1.5°	3469.0	3464.7	3466.2	3468.5	3470.5	3471.4
2°	3465.7	3460.9	3461.9	3464.7	3467.1	3469.0
2.5°	3461.9	3456.6	3457.5	3460.4	3463.3	3466.2
3°	3458.0	3451.3	3452.8	3455.2	3459.5	3462.8
3.5°	3452.8	3445.6	3446.6	3450.4	3454.7	3459.0
4°	3447.5	3438.9	3440.3	3444.6	3450.4	3455.2
4.5°	3441.3	3431.3	3432.7	3437.9	3445.1	3450.9
5°	3434.1	3423.1	3424.6	3431.3	3438.9	3445.6
5.5°	3426.5	3413.6	3415.5	3424.1	3432.7	3439.9
6°	3417.9	3404.5	3406.4	3415.9	3425.5	3433.2
6.5°	3408.8	3393.5	3395.9	3406.9	3417.9	3425.5
7°	3399.2	3382.5	3384.9	3397.3	3408.8	3416.9
7.5°	3388.2	3370.5	3372.9	3386.8	3399.2	3407.8
8°	3377.2	3358.6	3361.0	3375.8	3388.7	3397.3
8.5°	3365.7	3345.7	3348.5	3363.8	3376.7	3386.3
9°	3353.8	3332.3	3335.6	3350.9	3364.8	3375.3
9.5°	3341.4	3318.4	3321.8	3337.5	3351.9	3362.9
10°	3328.9	3304.5	3307.9	3323.2	3339.0	3350.9
10.5°	3315.1	3289.2	3293.1	3308.4	3325.1	3338.0
11°	3301.2	3273.5	3277.8	3292.6	3310.8	3324.1
11.5°	3286.8	3257.7	3262.0	3276.8	3295.5	3309.8
12°	3271.5	3240.5	3245.2	3260.1	3279.7	3294.5
12.5°	3255.3	3222.8	3228.0	3242.4	3262.9	3279.2
13°	3239.0	3204.6	3210.3	3224.7	3246.2	3262.9
13.5°	3221.3	3185.5	3191.7	3207.0	3228.5	3245.7
14°	3203.6	3166.4	3172.1	3187.9	3210.3	3228.0
14.5°	3185.5	3147.2	3152.5	3168.3	3190.7	3209.4
15°	3166.4	3126.7	3131.9	3148.7	3171.6	3191.2
15.5°	3147.2	3105.1	3111.4	3127.6	3151.1	3171.1
16°	3127.1	3084.1	3089.8	3106.6	3130.0	3151.1
16.5°	3106.6	3062.6	3068.3	3085.1	3109.0	3131.0
17°	3085.1	3040.1	3045.4	3062.1	3087.5	3109.9
17.5°	3063.5	3017.2	3022.4	3039.2	3064.5	3087.9
18°	3041.1	2992.8	2998.5	3015.3	3042.0	3065.9
18.5°	3018.1	2968.9	2974.6	2991.3	3018.1	3043.0
19°	2995.2	2944.0	2949.7	2967.0	2994.2	3019.6
19.5°	2970.8	2918.7	2923.9	2942.1	2969.8	2996.1
20°	2946.9	2892.8	2898.6	2916.3	2945.0	2971.7
20.5°	2921.5	2867.0	2871.8	2890.5	2919.6	2946.4
21°	2895.7	2840.7	2845.0	2864.2	2892.8	2920.6



TEST NUMBER: P776803

CATALOG NUMBER: HCDJBLS4050CSD-HCD8TRH-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2816.8	2759.9	2762.3	2781.9	2812.0	2841.2
23°	2790.0	2731.7	2733.6	2754.2	2783.3	2814.0
23.5°	2762.8	2703.5	2706.4	2726.0	2755.1	2786.7
24°	2735.5	2673.4	2676.7	2696.8	2726.9	2759.0
24.5°	2706.8	2642.8	2648.0	2667.2	2697.8	2730.8
25°	2678.6	2609.8	2617.9	2637.0	2668.6	2702.1
25.5°	2649.5	2576.8	2587.3	2607.4	2638.5	2671.5
26°	2619.8	2542.8	2554.8	2577.3	2608.8	2639.9
26.5°	2587.3	2508.4	2522.8	2546.7	2578.7	2607.9
27°	2554.8	2472.5	2488.8	2514.6	2547.6	2574.9
27.5°	2521.8	2436.7	2454.4	2483.1	2515.6	2540.9
28°	2487.4	2399.4	2418.5	2451.5	2482.1	2506.5
28.5°	2452.5	2362.1	2383.6	2418.5	2448.2	2471.6
29°	2417.1	2323.8	2347.7	2387.4	2414.2	2434.8
29.5°	2382.2	2287.0	2311.4	2355.4	2379.8	2398.9
30°	2345.4	2248.8	2274.1	2322.4	2343.0	2362.1
30.5°	2308.5	2209.6	2237.3	2288.9	2307.6	2324.3
31°	2271.2	2169.9	2199.5	2256.9	2271.2	2286.5
31.5°	2233.5	2131.6	2161.7	2222.9	2234.9	2248.3
32°	2196.2	2091.9	2123.5	2189.0	2197.1	2210.5
32.5°	2159.4	2051.8	2086.2	2153.6	2161.3	2171.8
33°	2121.1	2011.6	2047.9	2120.1	2124.4	2132.1
33.5°	2082.4	1970.0	2009.7	2085.2	2086.7	2092.4
34°	2043.6	1930.3	1970.5	2049.9	2049.4	2052.7
34.5°	2004.9	1889.2	1930.8	2013.5	2012.1	2011.6
35°	1966.2	1850.5	1892.1	1977.2	1974.3	1970.0
35.5°	1927.9	1804.1	1852.9	1941.3	1937.5	1930.8
36°	1888.2	1742.4	1813.2	1905.0	1898.8	1888.7
36.5°	1849.5	1668.8	1774.4	1868.6	1860.5	1851.9
37°	1810.8	1592.7	1737.1	1831.8	1822.3	1791.7
37.5°	1772.0	1518.6	1696.0	1795.5	1784.0	1730.9
38°	1736.7	1440.7	1636.7	1759.6	1745.7	1651.6
38.5°	1676.9	1363.7	1567.4	1724.2	1706.1	1578.4
39°	1611.4	1283.8	1496.6	1689.8	1672.1	1504.3
39.5°	1540.1	1204.0	1426.8	1654.4	1612.3	1429.2
40°	1468.9	1127.5	1356.5	1620.0	1551.1	1349.4
40.5°	1398.1	1051.9	1284.8	1586.5	1480.4	1270.9
41°	1324.5	980.2	1209.7	1553.5	1411.0	1191.1
41.5°	1250.4	910.4	1135.1	1520.5	1344.6	1113.1
42°	1173.9	840.6	1062.9	1487.5	1277.6	1039.0
42.5°	1100.7	770.3	994.6	1456.0	1207.8	969.7
43°	1029.0	702.9	927.6	1423.9	1135.6	900.4
43.5°	960.6	638.3	861.2	1392.4	1063.4	829.6



TEST NUMBER: P776803

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRH-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	760.3	459.0	667.5	1296.8	864.0	627.3
45.5°	695.2	405.0	605.8	1248.9	799.5	566.1
46°	630.7	352.9	548.9	1197.8	735.9	507.8
46.5°	570.9	307.5	491.5	1138.0	673.2	449.5
47°	514.0	266.3	437.0	1083.5	612.0	395.4
47.5°	461.9	230.9	384.0	1017.0	553.7	345.7
48°	410.3	201.3	335.7	949.6	497.3	300.3
48.5°	358.1	176.9	291.7	871.7	443.3	261.1
49°	306.5	157.8	252.0	799.5	391.6	227.1
49.5°	263.9	138.7	217.1	727.8	342.4	198.4
50°	227.6	119.5	188.9	661.8	296.9	174.0
50.5°	195.6	100.4	163.5	597.7	255.3	154.9
51°	169.7	81.3	144.9	539.4	220.0	135.3
51.5°	147.8	68.4	126.2	481.5	190.3	116.2
52°	128.6	64.1	107.6	429.4	164.0	97.1
52.5°	110.5	61.2	88.9	378.2	144.9	77.9
53°	92.3	58.8	72.2	331.8	125.3	67.9
53.5°	75.1	56.4	59.3	288.3	106.2	64.6
54°	61.7	54.0	55.0	250.6	86.5	62.2
54.5°	55.0	51.6	53.1	215.2	69.8	59.8
55°	53.1	49.7	51.2	184.6	57.9	57.4
55.5°	51.2	47.8	49.3	163.1	54.5	55.0
56°	49.3	45.9	47.3	142.0	52.6	52.6
56.5°	47.3	44.0	45.4	121.0	50.7	50.7
57°	45.9	42.1	44.0	99.5	48.8	48.8
57.5°	44.0	40.2	42.1	78.9	46.9	46.9
58°	42.6	38.7	40.6	67.9	45.4	44.9
58.5°	41.1	37.3	39.2	58.8	44.0	43.0
59°	39.7	35.9	37.8	51.6	42.6	41.1
59.5°	38.3	34.4	36.3	45.9	41.1	39.7
60°	36.8	33.0	35.4	41.6	39.7	38.3
60.5°	35.9	31.6	33.9	39.2	38.3	36.8
61°	34.4	30.1	33.0	37.8	36.8	35.4
61.5°	33.0	29.2	31.6	36.3	35.4	33.9
62°	32.0	27.7	30.6	34.9	34.4	32.5
62.5°	30.6	26.8	29.2	33.9	33.0	31.1
63°	29.6	25.3	28.2	32.5	32.0	29.6
63.5°	28.7	24.4	27.3	31.6	30.6	28.7
64°	27.3	23.4	26.3	30.6	29.6	27.3
64.5°	26.3	22.5	25.3	29.2	28.7	26.3
65°	25.3	21.5	24.4	28.2	27.7	25.3
65.5°	24.4	20.6	23.4	27.3	26.3	24.4
66°	23.4	19.6	22.5	26.3	25.3	23.0



TEST NUMBER: P776803

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRH-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	21.0	17.2	20.1	23.4	22.5	20.6
68°	20.1	16.3	19.1	22.5	21.5	19.6
68.5°	19.1	15.8	18.6	21.5	21.0	18.6
69°	18.6	14.8	17.7	20.6	20.1	17.7
69.5°	17.7	14.3	17.2	20.1	19.1	17.2
70°	17.2	13.9	16.3	19.1	18.2	16.3
70.5°	16.3	12.9	15.8	18.2	17.7	15.8
71°	15.8	12.4	14.8	17.7	16.7	14.8
71.5°	14.8	12.0	14.3	16.7	16.3	14.3
72°	14.3	11.5	13.9	15.8	15.3	13.4
72.5°	13.9	10.5	12.9	15.3	14.8	12.9
73°	12.9	10.0	12.4	14.3	13.9	12.4
73.5°	12.4	9.6	12.0	13.9	13.4	11.5
74°	12.0	9.1	11.5	12.9	12.4	11.0
74.5°	11.0	8.6	10.5	12.4	12.0	10.5
75°	10.5	8.1	10.0	12.0	11.5	10.0
75.5°	10.0	7.7	9.6	11.0	11.0	9.6
76°	9.6	7.2	9.1	10.5	10.0	9.1
76.5°	9.1	7.2	8.6	10.0	9.6	8.6
77°	8.6	6.7	8.1	9.1	9.1	8.1
77.5°	8.1	6.2	7.7	8.6	8.6	7.7
78°	7.7	5.7	7.2	8.1	8.1	7.2
78.5°	7.2	5.3	6.7	7.7	7.2	6.7
79°	6.7	4.8	6.2	7.2	6.7	6.2
79.5°	6.2	4.8	5.7	6.7	6.2	5.7
80°	5.7	4.3	5.3	5.7	5.7	5.3
80.5°	5.3	3.8	4.8	5.3	5.3	4.8
81°	4.8	3.8	4.3	4.8	4.8	4.3
81.5°	4.3	3.3	3.8	4.3	4.3	4.3
82°	3.8	2.9	3.8	3.8	3.8	3.8
82.5°	3.3	2.9	3.3	3.8	3.3	3.3
83°	2.9	2.4	2.9	3.3	2.9	2.9
83.5°	2.9	1.9	2.4	2.9	2.4	2.9
84°	2.4	1.9	1.9	2.4	1.9	2.4
84.5°	1.9	1.4	1.9	1.9	1.9	1.9
85°	1.4	1.4	1.4	1.9	1.4	1.9
85.5°	1.4	1.0	1.0	1.4	1.0	1.4
86°	1.0	0.5	1.0	1.0	1.0	1.0
86.5°	0.5	0.5	0.5	1.0	0.5	1.0
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: P776803

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRH-5000lm-4000K

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°	2894.3	2953.6	3015.7	3064.0	3089.4	3104.2	3096.1	3063.1	3006.6	2962.7	2916.3
22°	2868.0	2928.2	2991.8	3042.0	3068.3	3083.2	3075.0	3041.1	2983.7	2939.2	2890.9



44°	758.4	1051.9	1601.8	1397.2	1171.0	1445.0	1734.3	1283.8	922.8	1115.5	1474.6
44.5°	691.9	982.1	1569.3	1323.5	1093.1	1368.5	1701.8	1208.8	854.0	1044.3	1443.6



66.5°	22.0	25.3	29.2	27.3	23.9	26.8	29.6	25.8	21.5	23.9	25.3
67°	21.0	24.4	28.2	26.3	23.0	25.8	28.7	24.9	20.6	23.0	24.4



89°	0.0	0.0	0.5	0.5	1.0	1.0	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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1121 Highway 74 South
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Scaled Data Report





21.5°	2869.4	2814.0	2817.8	2837.4	2866.1	2894.3
22°	2843.6	2786.7	2790.0	2810.1	2838.8	2868.0



44°	891.8	575.2	795.7	1360.8	993.1	758.4
44.5°	825.8	517.8	731.1	1328.8	928.6	691.9



66.5°	22.5	18.6	21.5	25.3	24.4	22.0
67°	22.0	18.2	21.0	24.4	23.4	21.0

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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

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

Scaled Data Report



(END OF REPORT)