

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: P776804

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

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776804  
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-5000K  
Description: 8 INCH ROUND MEDIUM HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

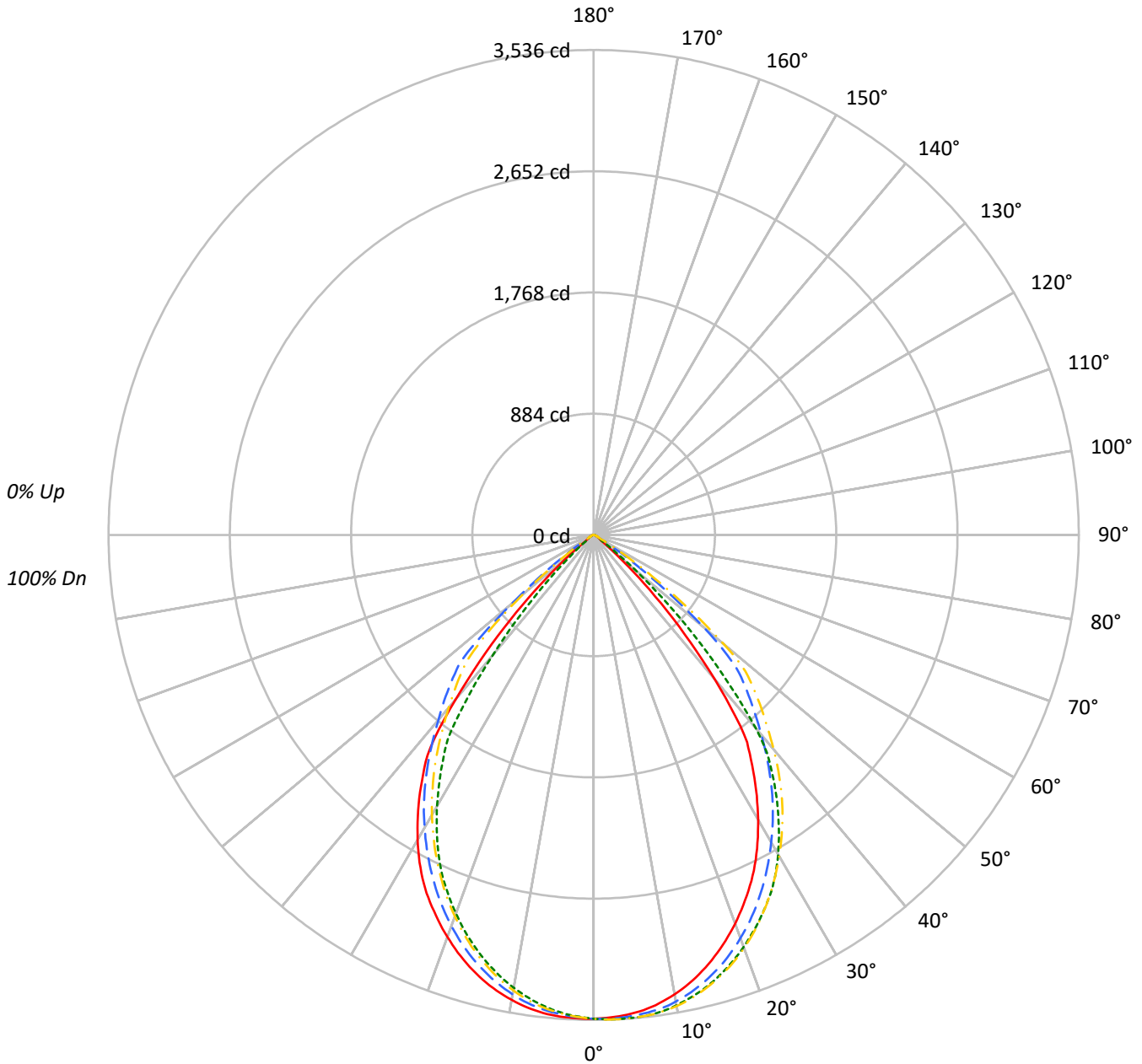
Lumens per Lamp: N/A  
Luminaire Lumens: 4889.4 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92																			
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69																			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63																			
6	83	72	66	61	81	72	65	60	70	64	60	68	63	60	67	63	59	57																			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	62	58	54	53																			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48																			
9	69	58	51	47	68	57	51	47	56	51	46	56	50	46	55	50	46	45																			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41																			

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

	0°	90°	180°	270°
0°	107702	107702	107702	107702
5°	107160	108233	107696	106461
10°	105420	107949	106731	103963
15°	102360	106469	104630	100290
20°	97979	103860	101322	95380
25°	92372	100234	97061	89215
30°	84506	94803	90439	80452
35°	74511	86501	81276	69990
40°	54573	73081	62273	45601
45°	27486	44498	34381	20112
50°	8388	18462	11295	5761
55°	3098	3486	3098	2688
60°	2369	2607	2369	2046
65°	1857	2001	1820	1575
70°	1473	1607	1428	1259
75°	1203	1321	1144	967
80°	932	1108	932	774
85°	666	1016	666	525

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°  
 Vertical Angle: 45°  
 Luminance: 73141 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.1	6.8
10°-20°	921.7	18.9
20°-30°	1293.4	26.5
30°-40°	1328.2	27.2
40°-50°	812.1	16.6
50°-60°	157.7	3.2
60°-70°	28.7	0.6
70°-80°	12.8	0.3
80°-90°	2.8	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°	2547.1	52.1
0°-40°	3875.4	79.3
0°-60°	4845.2	99.1
0°-90°	4889.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4889.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3528	3528	3528	3528	3528	
5°	3497	3532	3514	3474	3497	331
15°	3238	3368	3310	3173	3238	909
25°	2742	2976	2881	2648	2742	1254
35°	1999	2321	2181	1878	1999	1221
45°	637	1031	796	466	637	513
55°	58	66	58	50	58	64
65°	26	28	25	22	26	26
75°	10	11	10	8	10	11
85°	2	3	2	2	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°	3527.7	3527.7	3527.7	3527.7	3527.7	3527.7	3527.7	3527.7	3527.7	3527.7	3527.7
0.5°	3526.7	3526.2	3528.6	3530.6	3529.1	3530.6	3531.6	3531.6	3528.2	3525.7	3525.7
1°	3524.8	3525.7	3528.6	3532.0	3531.1	3532.5	3533.5	3532.5	3528.2	3524.3	3523.8
1.5°	3522.8	3524.8	3528.6	3533.0	3532.5	3534.5	3534.9	3533.0	3527.7	3522.8	3521.4
2°	3520.4	3523.3	3528.6	3533.5	3534.0	3535.4	3535.9	3533.0	3526.7	3520.9	3518.5
2.5°	3517.5	3521.4	3527.7	3533.5	3534.5	3536.4	3535.9	3533.0	3525.7	3518.5	3515.5
3°	3514.1	3518.9	3526.2	3532.5	3534.5	3536.4	3535.9	3532.5	3523.8	3516.0	3511.7
3.5°	3510.2	3516.0	3524.3	3531.1	3534.5	3536.4	3535.4	3531.1	3521.8	3512.6	3507.8
4°	3506.3	3513.1	3521.8	3529.6	3533.5	3535.4	3534.5	3530.1	3519.9	3509.7	3503.4
4.5°	3502.0	3509.7	3518.9	3527.7	3532.5	3534.5	3533.0	3528.6	3517.5	3506.3	3498.1
5°	3496.6	3505.8	3516.0	3525.7	3531.6	3533.0	3531.6	3526.2	3514.1	3502.0	3493.2
5.5°	3490.8	3501.0	3512.1	3523.3	3529.6	3531.6	3529.6	3523.3	3510.7	3497.6	3487.4
6°	3484.0	3495.6	3508.7	3520.4	3527.7	3529.6	3527.2	3520.4	3505.8	3492.2	3480.6
6.5°	3476.2	3488.9	3504.4	3517.0	3524.8	3527.2	3524.8	3516.0	3500.0	3485.9	3473.3
7°	3467.5	3482.1	3499.5	3512.6	3520.9	3523.8	3521.8	3511.2	3493.7	3479.1	3465.6
7.5°	3458.3	3473.8	3494.2	3507.3	3516.0	3519.9	3518.0	3504.9	3486.9	3470.9	3456.8
8°	3447.6	3465.1	3488.4	3501.5	3510.7	3515.1	3513.6	3499.0	3479.6	3463.1	3447.1
8.5°	3436.4	3454.9	3481.1	3495.2	3504.4	3509.2	3508.3	3492.2	3470.9	3453.9	3436.9
9°	3425.3	3445.2	3473.3	3487.9	3497.6	3503.4	3502.4	3484.5	3462.2	3443.7	3425.8
9.5°	3412.7	3434.0	3464.6	3480.1	3490.3	3496.1	3495.6	3476.2	3452.5	3433.5	3414.1
10°	3400.5	3423.3	3454.9	3471.9	3482.1	3488.9	3487.9	3467.5	3442.8	3422.9	3401.5
10.5°	3387.4	3411.2	3444.7	3462.6	3472.8	3481.1	3480.1	3458.8	3432.6	3411.2	3388.4
11°	3373.4	3399.1	3433.5	3452.9	3463.6	3471.9	3471.4	3449.1	3421.4	3399.6	3375.3
11.5°	3358.8	3386.0	3421.9	3442.3	3453.9	3462.2	3461.7	3438.9	3409.8	3386.5	3360.7
12°	3343.3	3372.9	3409.3	3431.6	3443.7	3452.5	3451.0	3428.2	3397.6	3373.4	3346.2
12.5°	3327.8	3358.8	3396.7	3419.9	3432.6	3442.3	3439.8	3417.0	3384.5	3359.3	3330.7
13°	3311.3	3344.3	3383.1	3408.3	3421.4	3431.6	3428.7	3404.9	3371.4	3344.7	3315.1
13.5°	3293.8	3329.2	3368.5	3395.7	3408.8	3419.9	3416.6	3392.8	3356.9	3329.7	3299.1
14°	3275.8	3313.2	3354.0	3382.6	3396.2	3407.8	3403.5	3379.7	3342.3	3314.2	3281.7
14.5°	3256.9	3295.7	3338.4	3368.5	3382.6	3394.7	3390.3	3365.6	3326.3	3297.2	3264.7
15°	3238.5	3278.7	3322.4	3353.5	3368.5	3381.1	3376.3	3351.5	3310.3	3280.2	3246.7
15.5°	3218.1	3260.8	3305.9	3337.9	3354.0	3366.6	3361.7	3336.5	3293.8	3262.7	3228.3
16°	3197.7	3241.9	3288.9	3322.4	3338.9	3352.0	3346.7	3320.5	3276.3	3244.3	3208.9
16.5°	3177.3	3222.9	3271.0	3306.4	3322.9	3337.0	3331.6	3303.5	3258.4	3225.4	3189.0
17°	3156.0	3203.5	3252.5	3289.4	3306.4	3321.0	3315.1	3287.5	3240.4	3205.5	3168.1
17.5°	3133.7	3183.2	3233.1	3271.0	3289.4	3304.0	3298.2	3269.5	3221.0	3185.6	3147.2
18°	3111.3	3161.8	3213.7	3252.5	3272.0	3287.0	3281.2	3251.1	3201.6	3165.2	3125.9
18.5°	3088.0	3140.0	3193.3	3233.6	3253.5	3269.0	3262.7	3232.6	3181.2	3143.8	3103.1
19°	3064.3	3118.1	3172.5	3214.2	3235.1	3250.1	3243.8	3213.2	3160.8	3122.5	3080.8
19.5°	3040.5	3095.3	3151.1	3193.8	3216.1	3231.2	3224.9	3193.3	3140.0	3100.2	3057.5
20°	3015.7	3072.0	3129.3	3173.9	3196.7	3211.3	3205.0	3173.0	3118.6	3077.9	3033.7
20.5°	2990.0	3047.3	3107.0	3152.6	3176.8	3191.9	3184.6	3151.6	3096.3	3054.1	3009.4
21°	2963.8	3022.5	3084.2	3131.2	3156.0	3171.0	3163.7	3130.3	3074.5	3030.8	2984.7



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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°	2883.3	2945.4	3011.9	3063.8	3092.4	3107.0	3097.8	3063.8	3003.6	2957.5	2907.1
23°	2855.6	2917.7	2987.1	3040.5	3069.6	3084.2	3074.9	3040.5	2979.8	2932.3	2880.4
23.5°	2828.0	2891.0	2961.9	3016.7	3046.3	3061.8	3051.2	3016.2	2956.1	2906.1	2853.2
24°	2799.8	2862.9	2935.2	2992.5	3023.5	3038.1	3026.9	2992.0	2931.8	2879.9	2826.0
24.5°	2771.2	2835.2	2908.5	2967.7	2999.7	3013.8	3002.2	2967.7	2907.1	2853.2	2797.9
25°	2742.1	2806.6	2881.3	2942.0	2975.5	2989.1	2977.9	2942.5	2881.3	2826.0	2768.8
25.5°	2711.0	2778.0	2854.2	2916.8	2951.7	2964.8	2952.2	2917.2	2854.6	2798.8	2740.1
26°	2679.0	2749.4	2826.5	2890.6	2927.4	2939.6	2926.5	2892.0	2826.5	2771.7	2711.0
26.5°	2646.5	2720.2	2797.9	2864.8	2901.7	2913.4	2899.8	2866.3	2796.9	2743.0	2681.4
27°	2613.0	2689.7	2769.2	2838.1	2874.5	2887.2	2873.6	2839.6	2766.3	2713.9	2651.3
27.5°	2578.5	2657.6	2739.6	2810.5	2846.4	2861.4	2846.4	2811.9	2734.8	2683.8	2620.3
28°	2543.6	2624.6	2710.0	2782.3	2816.8	2834.8	2818.7	2782.3	2702.8	2651.3	2589.7
28.5°	2508.2	2591.6	2680.4	2754.2	2786.2	2806.6	2790.6	2752.3	2669.8	2619.3	2559.1
29°	2470.8	2557.2	2649.4	2724.6	2755.2	2777.5	2762.9	2721.7	2636.3	2586.8	2528.1
29.5°	2434.4	2523.7	2619.3	2694.0	2722.7	2747.4	2733.8	2690.2	2600.9	2553.3	2496.5
30°	2397.1	2488.3	2588.3	2661.5	2689.2	2716.8	2704.7	2656.7	2565.4	2518.9	2464.0
30.5°	2358.7	2452.9	2557.7	2629.0	2654.7	2684.3	2675.1	2623.2	2529.5	2483.9	2432.5
31°	2320.4	2416.0	2525.7	2595.5	2619.8	2652.8	2646.0	2589.2	2493.1	2448.5	2400.5
31.5°	2281.6	2380.6	2494.6	2561.6	2583.9	2618.8	2615.4	2554.8	2456.3	2412.6	2368.0
32°	2243.2	2342.7	2462.1	2526.6	2548.0	2584.9	2585.3	2519.8	2418.4	2376.7	2335.0
32.5°	2203.9	2306.8	2430.1	2490.2	2511.6	2549.9	2554.8	2483.9	2381.1	2341.3	2302.0
33°	2163.7	2269.5	2397.6	2454.8	2474.2	2515.5	2524.2	2447.0	2342.2	2303.9	2268.0
33.5°	2123.4	2231.6	2365.0	2417.0	2435.9	2479.1	2493.1	2410.2	2302.9	2267.5	2233.1
34°	2083.1	2193.3	2329.6	2381.5	2398.5	2443.2	2461.6	2373.3	2263.1	2231.1	2198.1
34.5°	2041.4	2155.9	2296.6	2343.7	2359.7	2407.3	2429.6	2335.9	2221.4	2193.8	2161.2
35°	1999.2	2116.6	2261.7	2306.3	2320.9	2370.9	2397.1	2298.1	2180.7	2155.4	2125.3
35.5°	1959.4	2077.8	2227.7	2268.0	2280.1	2333.5	2363.6	2259.7	2139.9	2117.6	2088.5
36°	1916.7	2039.0	2191.8	2232.1	2239.9	2297.1	2329.1	2220.9	2099.6	2079.2	2052.1
36.5°	1879.3	1999.2	2156.4	2193.8	2199.1	2259.7	2294.2	2181.6	2056.9	2040.4	2015.7
37°	1818.2	1959.4	2120.0	2155.4	2157.4	2220.4	2258.8	2142.3	2010.3	2001.1	1977.8
37.5°	1756.6	1919.6	2084.6	2116.1	2116.1	2182.6	2222.9	2101.6	1952.1	1962.3	1940.9
38°	1676.0	1879.8	2047.7	2077.3	2072.0	2143.3	2187.0	2061.8	1886.1	1923.0	1904.6
38.5°	1601.8	1840.5	2011.8	2037.0	2027.3	2104.0	2150.6	2022.5	1811.4	1883.2	1869.1
39°	1526.6	1800.2	1974.4	1999.2	1968.6	2065.2	2113.7	1981.7	1730.8	1838.6	1832.3
39.5°	1450.4	1737.1	1938.5	1958.9	1907.0	2024.9	2076.8	1942.4	1645.4	1784.2	1796.3
40°	1369.3	1666.3	1902.1	1919.6	1833.7	1985.6	2039.9	1885.1	1562.5	1722.1	1761.4
40.5°	1289.8	1592.1	1866.2	1880.3	1752.2	1945.8	2003.5	1825.9	1482.9	1651.3	1727.9
41°	1208.7	1519.3	1830.3	1826.9	1669.2	1890.5	1966.2	1758.0	1402.8	1577.0	1694.4
41.5°	1129.6	1447.0	1795.4	1776.0	1585.8	1838.6	1931.2	1683.8	1326.2	1500.4	1661.9
42°	1054.4	1373.2	1760.9	1711.9	1503.3	1771.6	1895.3	1607.6	1245.6	1423.2	1628.5
42.5°	984.1	1296.1	1727.0	1643.5	1422.7	1700.3	1860.9	1526.6	1168.4	1349.4	1596.4
43°	913.7	1218.4	1693.5	1570.2	1345.1	1623.6	1827.4	1451.8	1087.9	1276.7	1562.9
43.5°	841.9	1141.8	1659.0	1493.6	1266.5	1544.5	1793.4	1376.6	1011.7	1204.8	1530.4



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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	636.6	927.8	1560.0	1269.9	1030.6	1315.0	1694.0	1154.4	796.3	987.5	1432.4
45.5°	574.5	858.4	1527.0	1199.5	955.9	1240.8	1660.5	1079.2	727.4	917.1	1399.4
46°	515.3	790.5	1493.6	1128.7	884.1	1167.0	1626.0	1005.9	660.9	848.2	1367.9
46.5°	456.1	723.5	1461.0	1056.8	813.3	1091.8	1593.5	934.1	595.9	783.7	1315.5
47°	401.3	656.5	1421.7	984.5	743.9	1015.6	1559.6	863.7	533.3	717.7	1253.4
47.5°	350.8	594.9	1371.8	914.2	675.4	943.8	1524.6	796.3	479.9	655.1	1180.6
48°	304.7	535.2	1313.1	846.3	610.9	873.9	1489.7	730.8	427.0	593.0	1100.0
48.5°	264.9	478.0	1249.0	780.7	548.3	805.5	1441.6	665.7	374.1	534.7	1020.0
49°	230.5	423.1	1187.9	717.7	494.9	738.0	1380.0	601.7	321.2	481.8	938.0
49.5°	201.4	371.2	1116.0	654.6	442.1	672.5	1316.0	541.0	277.1	428.9	858.4
50°	176.6	322.2	1046.2	592.5	388.7	607.5	1240.3	489.1	237.8	375.6	780.3
50.5°	157.2	277.6	968.5	532.3	335.8	547.3	1159.2	437.2	201.9	323.2	707.5
51°	137.3	239.7	887.5	475.0	283.4	494.0	1075.3	385.8	170.3	280.0	635.7
51.5°	117.9	207.2	808.9	420.7	243.1	440.6	990.9	333.8	142.7	240.2	569.7
52°	98.5	180.0	732.7	370.7	204.8	387.2	908.8	282.4	116.5	203.3	514.4
52.5°	79.1	159.6	658.5	322.7	170.3	333.8	830.2	241.2	93.2	169.8	459.5
53°	68.9	139.7	591.5	278.0	140.7	281.0	755.5	203.8	74.7	140.7	404.7
53.5°	65.5	119.4	526.0	236.3	114.5	238.7	682.2	171.3	66.5	115.0	349.4
54°	63.1	99.5	464.9	199.4	89.8	199.9	613.3	142.2	63.6	91.7	294.5
54.5°	60.7	79.6	406.6	164.5	71.8	166.9	546.4	116.5	61.1	70.8	251.8
55°	58.2	65.0	355.2	139.3	65.5	136.4	488.1	92.7	58.2	56.8	215.0
55.5°	55.8	58.7	305.7	114.5	63.1	109.2	430.9	71.3	55.8	54.3	182.0
56°	53.4	56.3	261.5	89.3	60.2	84.9	373.1	57.7	53.9	52.4	153.3
56.5°	51.4	53.9	222.2	64.5	57.3	65.0	315.4	55.3	51.4	50.5	128.1
57°	49.5	51.9	187.3	55.3	54.8	55.8	269.8	52.9	49.5	48.5	107.2
57.5°	47.6	50.0	159.2	53.4	52.9	53.4	228.1	50.9	47.6	46.6	90.3
58°	45.6	48.0	138.8	51.4	50.5	51.4	190.2	49.0	45.6	45.1	76.7
58.5°	43.7	46.6	118.4	49.5	48.5	49.5	157.2	47.6	43.7	43.2	66.0
59°	41.7	44.6	98.0	47.6	46.6	47.6	128.1	45.6	41.7	41.7	57.3
59.5°	40.3	43.2	77.6	46.1	44.6	45.6	103.8	44.2	40.3	40.3	50.9
60°	38.8	41.7	67.4	44.2	42.7	44.2	85.4	42.7	38.8	38.8	46.1
60.5°	37.4	40.3	58.7	42.7	40.8	42.7	71.3	40.8	36.9	37.8	41.7
61°	35.9	38.8	51.9	41.2	39.3	40.8	60.7	39.8	35.4	36.4	39.3
61.5°	34.5	37.4	46.1	39.8	37.8	39.3	52.9	38.3	34.0	34.9	37.8
62°	33.0	35.9	42.2	38.3	36.4	38.3	47.1	36.9	32.5	34.0	36.4
62.5°	31.5	34.9	39.3	36.9	34.9	36.9	42.7	35.4	31.1	32.5	34.9
63°	30.1	33.5	37.8	35.9	33.0	35.4	39.3	34.5	29.6	31.5	33.5
63.5°	29.1	32.5	36.9	34.5	31.5	34.0	37.8	33.0	28.6	30.1	32.5
64°	27.7	31.1	35.4	33.0	30.6	33.0	36.4	32.0	27.2	29.1	31.1
64.5°	26.7	30.1	34.5	32.0	29.1	31.5	34.9	30.6	26.2	28.1	30.1
65°	25.7	29.1	33.0	31.1	27.7	30.6	33.5	29.6	25.2	27.2	29.1
65.5°	24.7	28.1	32.0	29.6	26.7	29.6	32.0	28.6	23.8	26.2	28.1
66°	23.3	26.7	30.6	28.6	25.7	28.1	31.1	27.2	22.8	25.2	27.2





TEST NUMBER: P776804

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	20.9	23.8	27.7	25.7	22.3	25.2	28.1	24.3	19.9	22.3	24.3
68°	19.9	22.8	26.7	24.7	21.4	24.3	26.7	23.3	19.4	21.4	23.3
68.5°	18.9	22.3	25.7	23.8	20.4	23.3	25.7	22.3	18.4	20.4	22.3
69°	18.0	21.4	24.7	22.8	19.4	22.3	24.7	21.8	17.5	19.9	21.4
69.5°	17.5	20.4	23.8	21.8	18.9	21.8	23.8	20.9	17.0	18.9	20.4
70°	16.5	19.4	22.8	20.9	18.0	20.9	22.8	19.9	16.0	18.0	19.4
70.5°	16.0	18.9	21.8	20.4	17.0	19.9	22.3	18.9	15.5	17.5	18.9
71°	15.0	18.0	20.9	19.4	16.5	19.4	21.4	18.4	14.6	16.5	18.0
71.5°	14.6	17.5	19.9	18.4	15.5	18.4	20.4	17.5	14.1	16.0	17.0
72°	13.6	16.5	19.4	18.0	15.0	17.5	19.4	17.0	13.1	15.0	16.5
72.5°	13.1	16.0	18.4	17.0	14.1	17.0	18.4	16.0	12.6	14.6	15.5
73°	12.6	15.0	17.5	16.5	13.6	16.0	18.0	15.5	12.1	14.1	15.0
73.5°	11.6	14.6	17.0	15.5	13.1	15.5	17.0	14.6	11.6	13.1	14.1
74°	11.2	13.6	16.0	15.0	12.6	15.0	16.5	14.1	10.7	12.6	13.6
74.5°	10.7	13.1	15.0	14.1	11.6	14.1	15.5	13.6	10.2	12.1	12.6
75°	10.2	12.6	14.6	13.6	11.2	13.6	15.0	12.6	9.7	11.2	12.1
75.5°	9.7	11.6	13.6	13.1	10.7	13.1	14.1	12.1	9.2	10.7	11.6
76°	9.2	11.2	13.1	12.6	10.2	12.6	13.6	11.6	8.7	10.2	10.7
76.5°	8.7	10.7	12.6	11.6	9.7	11.6	12.6	10.7	8.2	9.7	10.2
77°	8.2	10.2	11.6	11.2	9.2	11.2	12.1	10.2	7.8	9.2	9.7
77.5°	7.8	9.7	11.2	10.7	8.7	10.7	11.6	9.7	7.3	8.7	9.2
78°	7.3	9.2	10.7	10.2	8.2	10.2	10.7	9.2	6.8	8.2	8.2
78.5°	6.8	8.2	9.7	9.7	7.8	9.7	10.2	8.7	6.3	7.3	7.8
79°	6.3	7.8	9.2	8.7	7.3	9.2	9.7	8.2	6.3	6.8	7.3
79.5°	5.8	7.3	8.7	8.2	6.8	8.7	9.2	7.8	5.8	6.3	6.8
80°	5.3	6.8	8.2	7.8	6.3	7.8	8.2	7.3	5.3	5.8	6.3
80.5°	4.9	6.3	7.8	7.3	6.3	7.3	7.8	6.3	4.9	5.3	5.8
81°	4.4	5.8	7.3	6.8	5.8	6.8	7.3	5.8	4.4	4.9	5.3
81.5°	4.4	5.3	6.3	6.3	5.3	6.8	6.8	5.8	4.4	4.9	4.9
82°	3.9	4.9	5.8	5.8	4.9	6.3	6.3	5.3	3.9	4.4	4.4
82.5°	3.4	4.4	5.3	5.3	4.4	5.8	5.8	4.9	3.4	3.9	3.9
83°	2.9	3.9	4.9	4.9	4.4	5.3	5.3	4.4	2.9	3.4	3.4
83.5°	2.9	3.4	4.4	4.4	3.9	4.9	4.9	3.9	2.9	2.9	2.9
84°	2.4	3.4	3.9	4.4	3.4	4.4	4.4	3.4	2.4	2.4	2.4
84.5°	1.9	2.9	3.4	3.9	3.4	3.9	3.9	2.9	1.9	1.9	2.4
85°	1.9	2.4	2.9	3.4	2.9	3.4	3.4	2.4	1.9	1.9	1.9
85.5°	1.5	1.9	2.9	2.9	2.9	3.4	2.9	1.9	1.5	1.5	1.5
86°	1.0	1.5	2.4	2.4	2.4	2.9	2.4	1.9	1.5	1.0	1.0
86.5°	1.0	1.0	1.9	2.4	1.9	2.4	2.4	1.5	1.0	1.0	1.0
87°	0.5	1.0	1.5	1.9	1.9	1.9	1.9	1.0	1.0	0.5	0.5
87.5°	0.5	0.5	1.5	1.5	1.5	1.9	1.5	1.0	0.5	0.5	0.5
88°	0.5	0.5	1.0	1.5	1.5	1.5	1.5	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: P776804  
CATALOG NUMBER: HCDJBL54050CSD-HCD8TRH-5000lm-5000K

**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: P776804

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

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3527.7	3527.7	3527.7	3527.7	3527.7	3527.7
0.5°	3526.7	3523.3	3524.8	3526.7	3527.7	3526.7
1°	3523.8	3519.9	3521.4	3523.3	3525.2	3524.8
1.5°	3520.4	3516.0	3517.5	3519.9	3521.8	3522.8
2°	3517.0	3512.1	3513.1	3516.0	3518.5	3520.4
2.5°	3513.1	3507.8	3508.7	3511.7	3514.6	3517.5
3°	3509.2	3502.4	3503.9	3506.3	3510.7	3514.1
3.5°	3503.9	3496.6	3497.6	3501.5	3505.8	3510.2
4°	3498.6	3489.8	3491.3	3495.6	3501.5	3506.3
4.5°	3492.2	3482.1	3483.5	3488.9	3496.1	3502.0
5°	3485.0	3473.8	3475.3	3482.1	3489.8	3496.6
5.5°	3477.2	3464.1	3466.0	3474.8	3483.5	3490.8
6°	3468.5	3454.9	3456.8	3466.5	3476.2	3484.0
6.5°	3459.3	3443.7	3446.2	3457.3	3468.5	3476.2
7°	3449.5	3432.6	3435.0	3447.6	3459.3	3467.5
7.5°	3438.4	3420.4	3422.9	3436.9	3449.5	3458.3
8°	3427.2	3408.3	3410.7	3425.8	3438.9	3447.6
8.5°	3415.6	3395.2	3398.1	3413.6	3426.7	3436.4
9°	3403.5	3381.6	3385.0	3400.5	3414.6	3425.3
9.5°	3390.8	3367.5	3370.9	3387.0	3401.5	3412.7
10°	3378.2	3353.5	3356.9	3372.4	3388.4	3400.5
10.5°	3364.1	3337.9	3341.8	3357.4	3374.3	3387.4
11°	3350.1	3321.9	3326.3	3341.3	3359.8	3373.4
11.5°	3335.5	3305.9	3310.3	3325.3	3344.3	3358.8
12°	3320.0	3288.4	3293.3	3308.3	3328.2	3343.3
12.5°	3303.5	3270.5	3275.8	3290.4	3311.3	3327.8
13°	3287.0	3252.1	3257.9	3272.4	3294.3	3311.3
13.5°	3269.0	3232.6	3239.0	3254.5	3276.3	3293.8
14°	3251.1	3213.2	3219.1	3235.1	3257.9	3275.8
14.5°	3232.6	3193.8	3199.2	3215.2	3238.0	3256.9
15°	3213.2	3173.0	3178.3	3195.3	3218.6	3238.5
15.5°	3193.8	3151.1	3157.4	3173.9	3197.7	3218.1
16°	3173.4	3129.8	3135.6	3152.6	3176.4	3197.7
16.5°	3152.6	3107.9	3113.8	3130.7	3155.0	3177.3
17°	3130.7	3085.1	3090.5	3107.5	3133.2	3156.0
17.5°	3108.9	3061.8	3067.2	3084.2	3109.9	3133.7
18°	3086.1	3037.1	3042.9	3059.9	3087.1	3111.3
18.5°	3062.8	3012.8	3018.7	3035.6	3062.8	3088.0
19°	3039.5	2987.6	2993.4	3010.9	3038.6	3064.3
19.5°	3014.8	2961.9	2967.2	2985.7	3013.8	3040.5
20°	2990.5	2935.7	2941.5	2959.5	2988.6	3015.7
20.5°	2964.8	2909.5	2914.3	2933.3	2962.9	2990.0
21°	2938.6	2882.8	2887.2	2906.6	2935.7	2963.8



TEST NUMBER: P776804

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

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2858.5	2800.8	2803.2	2823.1	2853.7	2883.3
23°	2831.4	2772.2	2774.1	2795.0	2824.6	2855.6
23.5°	2803.7	2743.5	2746.4	2766.3	2795.9	2828.0
24°	2776.0	2713.0	2716.4	2736.7	2767.3	2799.8
24.5°	2746.9	2681.9	2687.2	2706.7	2737.7	2771.2
25°	2718.3	2648.4	2656.7	2676.1	2708.1	2742.1
25.5°	2688.7	2614.9	2625.6	2646.0	2677.5	2711.0
26°	2658.6	2580.5	2592.6	2615.4	2647.5	2679.0
26.5°	2625.6	2545.6	2560.1	2584.4	2616.9	2646.5
27°	2592.6	2509.2	2525.7	2551.9	2585.3	2613.0
27.5°	2559.1	2472.8	2490.7	2519.8	2552.8	2578.5
28°	2524.2	2434.9	2454.3	2487.8	2518.9	2543.6
28.5°	2488.8	2397.1	2418.9	2454.3	2484.4	2508.2
29°	2452.9	2358.3	2382.5	2422.8	2450.0	2470.8
29.5°	2417.4	2320.9	2345.6	2390.3	2415.0	2434.4
30°	2380.1	2282.1	2307.8	2356.8	2377.7	2397.1
30.5°	2342.7	2242.3	2270.4	2322.8	2341.8	2358.7
31°	2304.9	2202.0	2232.1	2290.3	2304.9	2320.4
31.5°	2266.5	2163.2	2193.8	2255.9	2268.0	2281.6
32°	2228.7	2122.9	2154.9	2221.4	2229.7	2243.2
32.5°	2191.3	2082.2	2117.1	2185.5	2193.3	2203.9
33°	2152.5	2041.4	2078.3	2151.5	2155.9	2163.7
33.5°	2113.2	1999.2	2039.4	2116.1	2117.6	2123.4
34°	2073.9	1958.9	1999.7	2080.2	2079.7	2083.1
34.5°	2034.6	1917.2	1959.4	2043.3	2041.9	2041.4
35°	1995.3	1877.9	1920.1	2006.5	2003.5	1999.2
35.5°	1956.5	1830.8	1880.3	1970.1	1966.2	1959.4
36°	1916.2	1768.2	1840.0	1933.2	1926.9	1916.7
36.5°	1876.9	1693.5	1800.7	1896.3	1888.1	1879.3
37°	1837.6	1616.3	1762.9	1858.9	1849.2	1818.2
37.5°	1798.3	1541.1	1721.1	1822.1	1810.4	1756.6
38°	1762.4	1462.0	1661.0	1785.7	1771.6	1676.0
38.5°	1701.7	1383.9	1590.6	1749.8	1731.3	1601.8
39°	1635.2	1302.9	1518.8	1714.8	1696.9	1526.6
39.5°	1562.9	1221.8	1447.9	1678.9	1636.2	1450.4
40°	1490.6	1144.2	1376.6	1644.0	1574.1	1369.3
40.5°	1418.8	1067.5	1303.8	1610.0	1502.3	1289.8
41°	1344.1	994.7	1227.6	1576.5	1431.9	1208.7
41.5°	1268.9	923.9	1152.0	1543.1	1364.5	1129.6
42°	1191.3	853.0	1078.7	1509.6	1296.6	1054.4
42.5°	1117.0	781.7	1009.3	1477.5	1225.7	984.1
43°	1044.2	713.3	941.4	1445.0	1152.4	913.7
43.5°	974.8	647.8	873.9	1413.0	1079.2	841.9



TEST NUMBER: P776804

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

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	771.5	465.8	677.4	1316.0	876.8	636.6
45.5°	705.5	411.0	614.8	1267.4	811.3	574.5
46°	640.0	358.1	557.1	1215.5	746.8	515.3
46.5°	579.4	312.0	498.8	1154.9	683.2	456.1
47°	521.6	270.3	443.5	1099.5	621.1	401.3
47.5°	468.7	234.4	389.6	1032.1	561.9	350.8
48°	416.3	204.3	340.6	963.7	504.6	304.7
48.5°	363.4	179.5	296.0	884.6	449.8	264.9
49°	311.0	160.1	255.7	811.3	397.4	230.5
49.5°	267.9	140.7	220.3	738.5	347.4	201.4
50°	231.0	121.3	191.7	671.6	301.3	176.6
50.5°	198.5	101.9	166.0	606.5	259.1	157.2
51°	172.3	82.5	147.0	547.3	223.2	137.3
51.5°	149.9	69.4	128.1	488.6	193.1	117.9
52°	130.5	65.0	109.2	435.7	166.4	98.5
52.5°	112.1	62.1	90.3	383.8	147.0	79.1
53°	93.7	59.7	73.3	336.8	127.1	68.9
53.5°	76.2	57.3	60.2	292.6	107.7	65.5
54°	62.6	54.8	55.8	254.3	87.8	63.1
54.5°	55.8	52.4	53.9	218.4	70.8	60.7
55°	53.9	50.5	51.9	187.3	58.7	58.2
55.5°	51.9	48.5	50.0	165.5	55.3	55.8
56°	50.0	46.6	48.0	144.1	53.4	53.4
56.5°	48.0	44.6	46.1	122.8	51.4	51.4
57°	46.6	42.7	44.6	100.9	49.5	49.5
57.5°	44.6	40.8	42.7	80.1	47.6	47.6
58°	43.2	39.3	41.2	68.9	46.1	45.6
58.5°	41.7	37.8	39.8	59.7	44.6	43.7
59°	40.3	36.4	38.3	52.4	43.2	41.7
59.5°	38.8	34.9	36.9	46.6	41.7	40.3
60°	37.4	33.5	35.9	42.2	40.3	38.8
60.5°	36.4	32.0	34.5	39.8	38.8	37.4
61°	34.9	30.6	33.5	38.3	37.4	35.9
61.5°	33.5	29.6	32.0	36.9	35.9	34.5
62°	32.5	28.1	31.1	35.4	34.9	33.0
62.5°	31.1	27.2	29.6	34.5	33.5	31.5
63°	30.1	25.7	28.6	33.0	32.5	30.1
63.5°	29.1	24.7	27.7	32.0	31.1	29.1
64°	27.7	23.8	26.7	31.1	30.1	27.7
64.5°	26.7	22.8	25.7	29.6	29.1	26.7
65°	25.7	21.8	24.7	28.6	28.1	25.7
65.5°	24.7	20.9	23.8	27.7	26.7	24.7
66°	23.8	19.9	22.8	26.7	25.7	23.3



TEST NUMBER: P776804

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

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	21.4	17.5	20.4	23.8	22.8	20.9
68°	20.4	16.5	19.4	22.8	21.8	19.9
68.5°	19.4	16.0	18.9	21.8	21.4	18.9
69°	18.9	15.0	18.0	20.9	20.4	18.0
69.5°	18.0	14.6	17.5	20.4	19.4	17.5
70°	17.5	14.1	16.5	19.4	18.4	16.5
70.5°	16.5	13.1	16.0	18.4	18.0	16.0
71°	16.0	12.6	15.0	18.0	17.0	15.0
71.5°	15.0	12.1	14.6	17.0	16.5	14.6
72°	14.6	11.6	14.1	16.0	15.5	13.6
72.5°	14.1	10.7	13.1	15.5	15.0	13.1
73°	13.1	10.2	12.6	14.6	14.1	12.6
73.5°	12.6	9.7	12.1	14.1	13.6	11.6
74°	12.1	9.2	11.6	13.1	12.6	11.2
74.5°	11.2	8.7	10.7	12.6	12.1	10.7
75°	10.7	8.2	10.2	12.1	11.6	10.2
75.5°	10.2	7.8	9.7	11.2	11.2	9.7
76°	9.7	7.3	9.2	10.7	10.2	9.2
76.5°	9.2	7.3	8.7	10.2	9.7	8.7
77°	8.7	6.8	8.2	9.2	9.2	8.2
77.5°	8.2	6.3	7.8	8.7	8.7	7.8
78°	7.8	5.8	7.3	8.2	8.2	7.3
78.5°	7.3	5.3	6.8	7.8	7.3	6.8
79°	6.8	4.9	6.3	7.3	6.8	6.3
79.5°	6.3	4.9	5.8	6.8	6.3	5.8
80°	5.8	4.4	5.3	5.8	5.8	5.3
80.5°	5.3	3.9	4.9	5.3	5.3	4.9
81°	4.9	3.9	4.4	4.9	4.9	4.4
81.5°	4.4	3.4	3.9	4.4	4.4	4.4
82°	3.9	2.9	3.9	3.9	3.9	3.9
82.5°	3.4	2.9	3.4	3.9	3.4	3.4
83°	2.9	2.4	2.9	3.4	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	1.5	1.9	1.9	1.9	1.9
85°	1.5	1.5	1.5	1.9	1.5	1.9
85.5°	1.5	1.0	1.0	1.5	1.0	1.5
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: P776804  
CATALOG NUMBER: HCDJBL54050CSD-HCD8TRH-5000lm-5000K

**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



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

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	2937.1	2997.3	3060.4	3109.4	3135.1	3150.2	3141.9	3108.4	3051.2	3006.5	2959.5
22°	2910.4	2971.6	3036.1	3087.1	3113.8	3128.8	3120.6	3086.1	3027.9	2982.7	2933.7



44°	769.6	1067.5	1625.5	1417.9	1188.3	1466.4	1760.0	1302.9	936.5	1132.1	1496.5
44.5°	702.1	996.7	1592.5	1343.1	1109.3	1388.7	1727.0	1226.7	866.6	1059.8	1464.9



66.5°	22.3	25.7	29.6	27.7	24.3	27.2	30.1	26.2	21.8	24.3	25.7
67°	21.4	24.7	28.6	26.7	23.3	26.2	29.1	25.2	20.9	23.3	24.7



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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Scaled Data Report





21.5°	2911.9	2855.6	2859.5	2879.4	2908.5	2937.1
22°	2885.7	2828.0	2831.4	2851.7	2880.9	2910.4



44°	905.0	583.7	807.4	1381.0	1007.8	769.6
44.5°	838.0	525.5	741.9	1348.5	942.3	702.1

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Scaled Data Report



66.5°	22.8	18.9	21.8	25.7	24.7	22.3
67°	22.3	18.4	21.4	24.7	23.8	21.4

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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)