

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: P776690

Luminaire Tested: HCDJBS4050CSD-HCD62TRMW-5000lm-2700K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B057-HCD62TRMW)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS4050CSD-HCD62TRMW-5000lm-2700K  
Description: 6 INCH ROUND NARROW MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5054.2 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

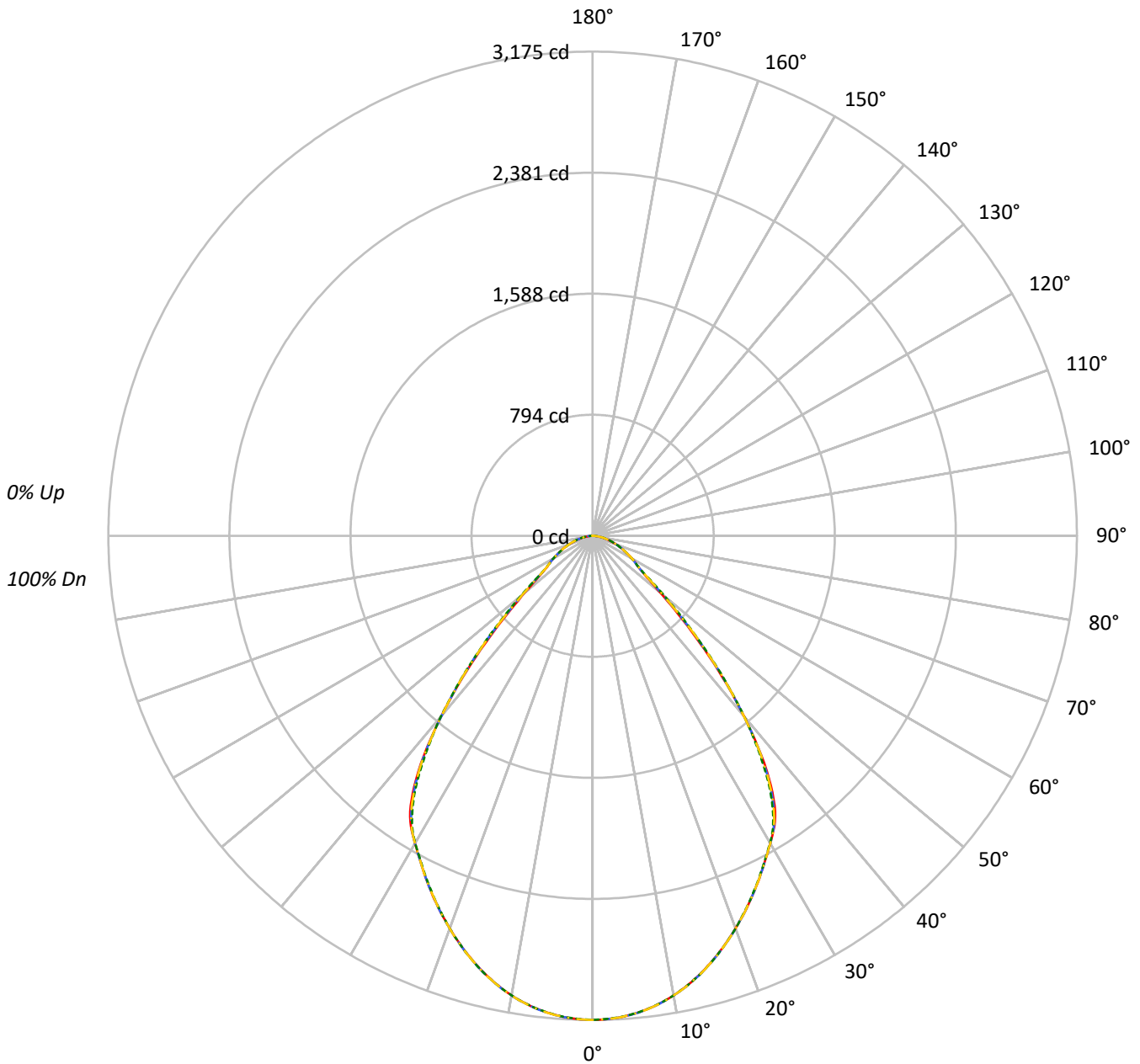
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P776690

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRMW-5000lm-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P776690

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRMW-5000lm-2700K

**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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79								
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71								
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63								
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57								
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52								
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47								
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43								
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40								
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36								

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

	0°	90°	180°	270°
0°	174049	174049	174049	174049
5°	173134	173057	173134	173057
10°	170365	170365	170365	170365
15°	165710	165790	165710	165790
20°	159841	159789	159841	159789
25°	153493	153245	153493	153245
30°	147459	147225	147459	147225
35°	137514	135499	137514	135499
40°	110371	110507	110371	110507
45°	77233	79566	77233	79566
50°	49372	52604	49372	52604
55°	35917	36481	35917	36481
60°	32607	32465	32607	32465
65°	29303	29186	29303	29186
70°	25998	26351	25998	26351
75°	22664	23828	22664	23828
80°	18689	21152	18689	21152
85°	11448	17486	11448	17486

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 79566 cd/sqm



TEST NUMBER: P776690

CATALOG NUMBER: HCDJBL4050CSD-HCD62TRMW-5000lm-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.6	5.9
10°-20°	821.1	16.2
20°-30°	1167.7	23.1
30°-40°	1248.2	24.7
40°-50°	788.7	15.6
50°-60°	358.9	7.1
60°-70°	224.8	4.4
70°-80°	118.1	2.3
80°-90°	29.1	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°	2286.4	45.2
0°-40°	3534.6	69.9
0°-60°	4682.3	92.6
0°-90°	5054.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5054.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3175	3175	3175	3175	3175	
5°	3146	3145	3146	3145	3146	298
15°	2920	2921	2920	2921	2920	821
25°	2538	2534	2538	2534	2538	1168
35°	2055	2025	2055	2025	2055	1254
45°	996	1026	996	1026	996	777
55°	376	382	376	382	376	354
65°	226	225	226	225	226	225
75°	107	112	107	112	107	114
85°	18	28	18	28	18	24
90°	0	1	0	1	0	



TEST NUMBER: P776690

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRMW-5000lm-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9
0.5°	3174.4	3174.9	3174.4	3174.4	3173.1	3174.4	3174.4	3174.9	3174.4	3174.9	3174.4
1°	3173.5	3174.0	3174.0	3173.5	3172.1	3173.5	3174.0	3174.0	3173.5	3174.0	3174.0
1.5°	3172.1	3172.6	3172.1	3172.1	3170.8	3172.1	3172.1	3172.6	3172.1	3172.6	3172.1
2°	3170.3	3170.3	3170.3	3170.3	3168.5	3170.3	3170.3	3170.3	3170.3	3170.3	3170.3
2.5°	3167.6	3167.6	3168.0	3167.6	3166.2	3167.6	3168.0	3167.6	3167.6	3167.6	3168.0
3°	3164.4	3164.9	3164.9	3164.9	3163.0	3164.9	3164.9	3164.9	3164.4	3164.9	3164.9
3.5°	3160.8	3160.8	3161.2	3161.2	3159.4	3161.2	3161.2	3160.8	3160.8	3160.8	3161.2
4°	3156.7	3156.7	3156.7	3156.7	3155.3	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7
4.5°	3151.6	3152.1	3152.1	3152.1	3150.3	3152.1	3152.1	3152.1	3151.6	3152.1	3152.1
5°	3146.2	3146.6	3146.6	3146.6	3144.8	3146.6	3146.6	3146.6	3146.2	3146.6	3146.6
5.5°	3140.3	3140.7	3140.7	3140.7	3138.9	3140.7	3140.7	3140.7	3140.3	3140.7	3140.7
6°	3133.9	3133.9	3133.9	3133.9	3132.5	3133.9	3133.9	3133.9	3133.9	3133.9	3133.9
6.5°	3126.6	3126.6	3127.1	3127.1	3125.7	3127.1	3127.1	3126.6	3126.6	3126.6	3127.1
7°	3118.9	3119.3	3119.3	3119.3	3117.9	3119.3	3119.3	3119.3	3118.9	3119.3	3119.3
7.5°	3110.7	3110.7	3111.1	3111.1	3109.7	3111.1	3111.1	3110.7	3110.7	3110.7	3111.1
8°	3101.5	3102.0	3102.5	3102.5	3101.1	3102.5	3102.5	3102.0	3101.5	3102.0	3102.5
8.5°	3092.0	3092.4	3092.9	3092.9	3091.5	3092.9	3092.9	3092.4	3092.0	3092.4	3092.9
9°	3082.0	3082.4	3082.9	3083.3	3082.0	3083.3	3082.9	3082.4	3082.0	3082.4	3082.9
9.5°	3071.5	3071.9	3072.4	3072.8	3071.5	3072.8	3072.4	3071.9	3071.5	3071.9	3072.4
10°	3060.5	3060.5	3061.0	3061.9	3060.5	3061.9	3061.0	3060.5	3060.5	3060.5	3061.0
10.5°	3048.7	3048.7	3049.6	3050.1	3048.7	3050.1	3049.6	3048.7	3048.7	3048.7	3049.6
11°	3036.4	3036.4	3037.3	3038.2	3036.4	3038.2	3037.3	3036.4	3036.4	3036.4	3037.3
11.5°	3023.2	3023.7	3024.6	3025.5	3024.1	3025.5	3024.6	3023.7	3023.2	3023.7	3024.6
12°	3010.0	3010.4	3011.4	3012.3	3010.9	3012.3	3011.4	3010.4	3010.0	3010.4	3011.4
12.5°	2996.3	2996.8	2997.2	2998.1	2997.2	2998.1	2997.2	2996.8	2996.3	2996.8	2997.2
13°	2981.7	2982.2	2983.1	2984.0	2983.1	2984.0	2983.1	2982.2	2981.7	2982.2	2983.1
13.5°	2967.2	2967.6	2968.5	2969.4	2968.1	2969.4	2968.5	2967.6	2967.2	2967.6	2968.5
14°	2951.7	2952.6	2953.5	2954.0	2953.0	2954.0	2953.5	2952.6	2951.7	2952.6	2953.5
14.5°	2936.2	2936.7	2937.6	2938.5	2937.6	2938.5	2937.6	2936.7	2936.2	2936.7	2937.6
15°	2919.8	2920.7	2921.6	2922.5	2921.2	2922.5	2921.6	2920.7	2919.8	2920.7	2921.6
15.5°	2903.4	2903.9	2904.8	2905.7	2904.3	2905.7	2904.8	2903.9	2903.4	2903.9	2904.8
16°	2886.1	2887.0	2887.9	2888.8	2887.5	2888.8	2887.9	2887.0	2886.1	2887.0	2887.9
16.5°	2869.2	2869.7	2870.6	2871.5	2870.1	2871.5	2870.6	2869.7	2869.2	2869.7	2870.6
17°	2851.5	2851.9	2852.8	2853.7	2852.4	2853.7	2852.8	2851.9	2851.5	2851.9	2852.8
17.5°	2833.7	2833.7	2834.6	2835.5	2834.2	2835.5	2834.6	2833.7	2833.7	2833.7	2834.6
18°	2815.0	2815.9	2816.4	2816.9	2815.5	2816.9	2816.4	2815.9	2815.0	2815.9	2816.4
18.5°	2796.4	2797.3	2797.7	2798.2	2796.8	2798.2	2797.7	2797.3	2796.4	2797.3	2797.7
19°	2777.7	2778.6	2779.0	2779.0	2778.1	2779.0	2779.0	2778.6	2777.7	2778.6	2779.0
19.5°	2759.0	2759.5	2759.9	2760.4	2759.0	2760.4	2759.9	2759.5	2759.0	2759.5	2759.9
20°	2739.9	2740.3	2740.8	2740.8	2739.0	2740.8	2740.8	2740.3	2739.9	2740.3	2740.8
20.5°	2720.7	2720.7	2720.7	2720.7	2719.4	2720.7	2720.7	2720.7	2720.7	2720.7	2720.7
21°	2700.2	2700.7	2701.2	2700.7	2699.3	2700.7	2701.2	2700.7	2700.2	2700.7	2701.2



TEST NUMBER: P776690

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRMW-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	2641.0	2641.0	2640.6	2640.1	2638.3	2640.1	2640.6	2641.0	2641.0	2641.0	2640.6
23°	2620.5	2620.5	2620.1	2619.6	2617.8	2619.6	2620.1	2620.5	2620.5	2620.5	2620.1
23.5°	2600.0	2600.0	2599.6	2598.7	2597.3	2598.7	2599.6	2600.0	2600.0	2600.0	2599.6
24°	2579.5	2579.5	2579.1	2577.7	2575.9	2577.7	2579.1	2579.5	2579.5	2579.5	2579.1
24.5°	2559.0	2558.6	2558.1	2556.8	2554.9	2556.8	2558.1	2558.6	2559.0	2558.6	2558.1
25°	2537.6	2537.6	2537.2	2535.8	2533.5	2535.8	2537.2	2537.6	2537.6	2537.6	2537.2
25.5°	2516.7	2516.7	2516.2	2514.4	2512.6	2514.4	2516.2	2516.7	2516.7	2516.7	2516.2
26°	2495.7	2495.7	2495.3	2493.9	2491.6	2493.9	2495.3	2495.7	2495.7	2495.7	2495.3
26.5°	2474.3	2474.3	2473.9	2472.0	2470.2	2472.0	2473.9	2474.3	2474.3	2474.3	2473.9
27°	2452.9	2453.4	2452.9	2451.1	2448.8	2451.1	2452.9	2453.4	2452.9	2453.4	2452.9
27.5°	2431.9	2431.9	2431.5	2430.1	2427.8	2430.1	2431.5	2431.9	2431.9	2431.9	2431.5
28°	2410.1	2411.0	2410.5	2409.2	2407.4	2409.2	2410.5	2411.0	2410.1	2411.0	2410.5
28.5°	2389.6	2390.5	2390.0	2388.7	2386.9	2388.7	2390.0	2390.5	2389.6	2390.5	2390.0
29°	2369.1	2370.0	2369.5	2368.6	2366.4	2368.6	2369.5	2370.0	2369.1	2370.0	2369.5
29.5°	2349.0	2349.5	2349.5	2348.1	2346.3	2348.1	2349.5	2349.5	2349.0	2349.5	2349.5
30°	2329.5	2329.5	2329.5	2327.6	2325.8	2327.6	2329.5	2329.5	2329.5	2329.5	2329.5
30.5°	2309.4	2309.9	2309.0	2307.6	2305.3	2307.6	2309.0	2309.9	2309.4	2309.9	2309.0
31°	2289.8	2289.8	2288.9	2286.6	2283.9	2286.6	2288.9	2289.8	2289.8	2289.8	2288.9
31.5°	2268.9	2268.9	2267.1	2264.8	2261.1	2264.8	2267.1	2268.9	2268.9	2268.9	2267.1
32°	2247.5	2246.1	2242.9	2238.8	2233.8	2238.8	2242.9	2246.1	2247.5	2246.1	2242.9
32.5°	2224.2	2221.0	2216.0	2209.2	2203.3	2209.2	2216.0	2221.0	2224.2	2221.0	2216.0
33°	2197.8	2194.2	2185.5	2177.8	2171.4	2177.8	2185.5	2194.2	2197.8	2194.2	2185.5
33.5°	2167.3	2164.1	2152.3	2144.1	2137.7	2144.1	2152.3	2164.1	2167.3	2164.1	2152.3
34°	2132.7	2131.3	2117.2	2108.1	2102.6	2108.1	2117.2	2131.3	2132.7	2131.3	2117.2
34.5°	2094.9	2092.6	2079.8	2069.8	2064.8	2069.8	2079.8	2092.6	2094.9	2092.6	2079.8
35°	2054.8	2051.1	2040.2	2029.3	2024.7	2029.3	2040.2	2051.1	2054.8	2051.1	2040.2
35.5°	2012.4	2007.4	1998.8	1987.4	1981.5	1987.4	1998.8	2007.4	2012.4	2007.4	1998.8
36°	1967.3	1961.0	1955.5	1944.1	1936.8	1944.1	1955.5	1961.0	1967.3	1961.0	1955.5
36.5°	1920.0	1913.1	1909.5	1898.6	1889.4	1898.6	1909.5	1913.1	1920.0	1913.1	1909.5
37°	1870.3	1863.9	1861.2	1851.2	1842.1	1851.2	1861.2	1863.9	1870.3	1863.9	1861.2
37.5°	1818.4	1813.8	1811.1	1802.9	1793.8	1802.9	1811.1	1813.8	1818.4	1813.8	1811.1
38°	1764.6	1761.9	1759.2	1753.7	1746.0	1753.7	1759.2	1761.9	1764.6	1761.9	1759.2
38.5°	1709.5	1709.5	1705.0	1703.1	1696.3	1703.1	1705.0	1709.5	1709.5	1709.5	1705.0
39°	1654.9	1655.8	1651.2	1650.8	1648.0	1650.8	1651.2	1655.8	1654.9	1655.8	1651.2
39.5°	1598.8	1600.2	1595.6	1597.0	1596.6	1597.0	1595.6	1600.2	1598.8	1600.2	1595.6
40°	1542.3	1545.1	1541.0	1543.3	1544.2	1543.3	1541.0	1545.1	1542.3	1545.1	1541.0
40.5°	1485.0	1489.1	1486.3	1490.0	1490.9	1490.0	1486.3	1489.1	1485.0	1489.1	1486.3
41°	1428.9	1433.5	1432.6	1435.8	1438.9	1435.8	1432.6	1433.5	1428.9	1433.5	1432.6
41.5°	1373.4	1376.5	1379.3	1383.4	1384.7	1383.4	1379.3	1376.5	1373.4	1376.5	1379.3
42°	1317.8	1320.5	1326.0	1329.6	1333.3	1329.6	1326.0	1320.5	1317.8	1320.5	1326.0
42.5°	1262.7	1265.4	1273.1	1277.7	1280.9	1277.7	1273.1	1265.4	1262.7	1265.4	1273.1
43°	1207.5	1211.2	1221.2	1225.3	1228.5	1225.3	1221.2	1211.2	1207.5	1211.2	1221.2
43.5°	1153.3	1156.5	1168.8	1172.9	1175.7	1172.9	1168.8	1156.5	1153.3	1156.5	1168.8



TEST NUMBER: P776690

CATALOG NUMBER: HCDJBL4050CSD-HCD62TRMW-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	996.2	1001.7	1015.3	1023.1	1026.3	1023.1	1015.3	1001.7	996.2	1001.7	1015.3
45.5°	945.6	952.5	966.6	975.2	978.4	975.2	966.6	952.5	945.6	952.5	966.6
46°	897.3	905.1	918.8	928.8	932.9	928.8	918.8	905.1	897.3	905.1	918.8
46.5°	850.4	859.1	872.3	883.7	888.2	883.7	872.3	859.1	850.4	859.1	872.3
47°	804.9	814.4	827.2	839.5	844.5	839.5	827.2	814.4	804.9	814.4	827.2
47.5°	761.6	770.7	784.4	797.1	801.7	797.1	784.4	770.7	761.6	770.7	784.4
48°	720.6	729.7	743.4	756.6	761.6	756.6	743.4	729.7	720.6	729.7	743.4
48.5°	682.3	690.1	703.8	717.4	722.9	717.4	703.8	690.1	682.3	690.1	703.8
49°	645.5	652.7	666.0	680.5	685.5	680.5	666.0	652.7	645.5	652.7	666.0
49.5°	610.8	617.2	630.9	644.5	650.5	644.5	630.9	617.2	610.8	617.2	630.9
50°	578.9	583.5	597.6	611.3	616.8	611.3	597.6	583.5	578.9	583.5	597.6
50.5°	549.3	552.5	566.7	579.4	584.9	579.4	566.7	552.5	549.3	552.5	566.7
51°	522.0	524.7	537.5	548.9	555.3	548.9	537.5	524.7	522.0	524.7	537.5
51.5°	496.5	498.8	510.6	521.1	527.0	521.1	510.6	498.8	496.5	498.8	510.6
52°	473.3	475.5	486.5	495.1	500.1	495.1	486.5	475.5	473.3	475.5	486.5
52.5°	451.9	453.7	463.3	470.5	475.1	470.5	463.3	453.7	451.9	453.7	463.3
53°	432.3	435.5	442.3	448.2	451.9	448.2	442.3	435.5	432.3	435.5	442.3
53.5°	416.8	418.6	423.2	428.2	430.9	428.2	423.2	418.6	416.8	418.6	423.2
54°	402.2	402.7	405.9	409.5	411.8	409.5	405.9	402.7	402.2	402.7	405.9
54.5°	389.0	389.0	390.4	393.1	395.8	393.1	390.4	389.0	389.0	389.0	390.4
55°	375.8	376.2	378.1	379.9	381.7	379.9	378.1	376.2	375.8	376.2	378.1
55.5°	363.5	365.3	367.1	368.5	371.7	368.5	367.1	365.3	363.5	365.3	367.1
56°	354.8	355.8	357.1	358.0	361.7	358.0	357.1	355.8	354.8	355.8	357.1
56.5°	347.6	347.6	347.6	348.5	351.7	348.5	347.6	347.6	347.6	347.6	347.6
57°	340.7	340.7	339.8	339.4	341.6	339.4	339.8	340.7	340.7	340.7	339.8
57.5°	334.3	333.9	333.0	332.1	331.6	332.1	333.0	333.9	334.3	333.9	333.0
58°	327.5	327.1	326.1	325.2	324.3	325.2	326.1	327.1	327.5	327.1	326.1
58.5°	320.2	319.8	318.9	317.9	317.5	317.9	318.9	319.8	320.2	319.8	318.9
59°	312.9	312.5	312.0	311.1	310.2	311.1	312.0	312.5	312.9	312.5	312.0
59.5°	305.2	305.2	304.3	303.8	303.4	303.8	304.3	305.2	305.2	305.2	304.3
60°	297.4	297.4	297.0	296.5	296.1	296.5	297.0	297.4	297.4	297.4	297.0
60.5°	289.7	289.7	289.2	288.8	288.3	288.8	289.2	289.7	289.7	289.7	289.2
61°	282.4	282.4	282.0	281.5	281.0	281.5	282.0	282.4	282.4	282.4	282.0
61.5°	275.1	275.1	274.7	274.2	273.8	274.2	274.7	275.1	275.1	275.1	274.7
62°	267.8	267.8	267.4	266.9	266.5	266.9	267.4	267.8	267.8	267.8	267.4
62.5°	260.5	260.5	260.1	259.6	259.2	259.6	260.1	260.5	260.5	260.5	260.1
63°	253.7	253.3	253.3	252.4	252.4	252.4	253.3	253.3	253.7	253.3	253.3
63.5°	246.4	246.4	246.0	245.5	245.5	245.5	246.0	246.4	246.4	246.4	246.0
64°	239.6	239.6	239.1	238.7	238.2	238.7	239.1	239.6	239.6	239.6	239.1
64.5°	232.8	232.8	232.3	231.9	231.9	231.9	232.3	232.8	232.8	232.8	232.3
65°	225.9	226.4	225.9	225.5	225.0	225.5	225.9	226.4	225.9	226.4	225.9
65.5°	219.1	219.6	219.6	219.1	218.6	219.1	219.6	219.6	219.1	219.6	219.6
66°	212.7	213.2	212.7	212.3	212.3	212.3	212.7	213.2	212.7	213.2	212.7





TEST NUMBER: P776690

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRMW-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	193.1	194.0	194.0	193.6	193.6	193.6	194.0	194.0	193.1	194.0	194.0
68°	186.8	187.7	188.1	187.7	187.7	187.7	188.1	187.7	186.8	187.7	188.1
68.5°	180.8	181.7	182.2	181.7	181.7	181.7	182.2	181.7	180.8	181.7	182.2
69°	174.5	175.8	176.3	176.3	175.8	176.3	176.3	175.8	174.5	175.8	176.3
69.5°	168.1	169.9	170.8	170.4	170.4	170.4	170.8	169.9	168.1	169.9	170.8
70°	162.2	163.5	164.9	164.9	164.4	164.9	164.9	163.5	162.2	163.5	164.9
70.5°	156.2	158.1	159.4	159.0	159.0	159.0	159.4	158.1	156.2	158.1	159.4
71°	150.8	152.6	154.0	154.0	153.5	154.0	154.0	152.6	150.8	152.6	154.0
71.5°	144.9	146.7	148.5	148.5	148.0	148.5	148.5	146.7	144.9	146.7	148.5
72°	139.4	141.2	143.0	143.0	142.6	143.0	143.0	141.2	139.4	141.2	143.0
72.5°	133.9	135.7	138.0	137.6	137.6	137.6	138.0	135.7	133.9	135.7	138.0
73°	128.0	130.3	132.6	132.6	132.1	132.6	132.6	130.3	128.0	130.3	132.6
73.5°	122.5	124.8	127.5	127.5	127.1	127.5	127.5	124.8	122.5	124.8	127.5
74°	117.5	119.3	122.1	122.5	122.1	122.5	122.1	119.3	117.5	119.3	122.1
74.5°	112.1	114.3	117.1	117.5	117.1	117.5	117.1	114.3	112.1	114.3	117.1
75°	107.0	108.9	112.1	112.5	112.5	112.5	112.1	108.9	107.0	108.9	112.1
75.5°	102.0	103.9	107.5	107.5	107.5	107.5	107.5	103.9	102.0	103.9	107.5
76°	97.0	98.8	102.5	102.9	102.9	102.9	102.5	98.8	97.0	98.8	102.5
76.5°	92.0	93.8	97.5	98.4	97.9	98.4	97.5	93.8	92.0	93.8	97.5
77°	87.0	89.3	92.9	93.8	93.4	93.8	92.9	89.3	87.0	89.3	92.9
77.5°	82.0	84.3	88.4	89.3	88.8	89.3	88.4	84.3	82.0	84.3	88.4
78°	77.4	79.7	83.4	84.7	84.3	84.7	83.4	79.7	77.4	79.7	83.4
78.5°	72.9	74.7	78.8	80.2	80.2	80.2	78.8	74.7	72.9	74.7	78.8
79°	68.3	70.1	74.2	75.6	75.6	75.6	74.2	70.1	68.3	70.1	74.2
79.5°	63.8	65.6	70.1	71.5	71.5	71.5	70.1	65.6	63.8	65.6	70.1
80°	59.2	61.0	65.6	67.0	67.0	67.0	65.6	61.0	59.2	61.0	65.6
80.5°	55.1	56.9	61.5	62.9	62.9	62.9	61.5	56.9	55.1	56.9	61.5
81°	50.6	52.4	56.9	58.8	58.8	58.8	56.9	52.4	50.6	52.4	56.9
81.5°	46.5	47.8	52.8	54.7	54.7	54.7	52.8	47.8	46.5	47.8	52.8
82°	42.4	43.7	48.7	50.6	50.6	50.6	48.7	43.7	42.4	43.7	48.7
82.5°	37.8	39.6	44.6	46.9	46.9	46.9	44.6	39.6	37.8	39.6	44.6
83°	33.7	35.5	40.5	42.8	42.8	42.8	40.5	35.5	33.7	35.5	40.5
83.5°	29.6	31.4	36.9	39.2	38.7	39.2	36.9	31.4	29.6	31.4	36.9
84°	26.0	27.3	33.3	35.1	35.1	35.1	33.3	27.3	26.0	27.3	33.3
84.5°	21.9	23.2	29.6	31.4	31.4	31.4	29.6	23.2	21.9	23.2	29.6
85°	18.2	19.6	26.0	27.8	27.8	27.8	26.0	19.6	18.2	19.6	26.0
85.5°	14.6	16.4	22.3	24.1	24.1	24.1	22.3	16.4	14.6	16.4	22.3
86°	11.8	13.2	19.1	20.5	20.5	20.5	19.1	13.2	11.8	13.2	19.1
86.5°	9.6	10.9	15.5	16.9	17.3	16.9	15.5	10.9	9.6	10.9	15.5
87°	7.3	8.7	12.8	13.7	13.7	13.7	12.8	8.7	7.3	8.7	12.8
87.5°	5.5	6.4	9.6	10.5	10.5	10.5	9.6	6.4	5.5	6.4	9.6
88°	3.6	4.6	6.8	7.3	7.7	7.3	6.8	4.6	3.6	4.6	6.8
88.5°	1.8	2.7	4.6	5.5	5.9	5.5	4.6	2.7	1.8	2.7	4.6



TEST NUMBER: P776690  
CATALOG NUMBER: HCDJBL54050CSD-HCD62TRMW-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.5	0.5	0.9	1.4	0.9	0.5	0.5	0.0	0.5	0.5



TEST NUMBER: P776690

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRMW-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9
0.5°	3174.4	3173.1	3174.4	3174.4	3174.9	3174.4
1°	3173.5	3172.1	3173.5	3174.0	3174.0	3173.5
1.5°	3172.1	3170.8	3172.1	3172.1	3172.6	3172.1
2°	3170.3	3168.5	3170.3	3170.3	3170.3	3170.3
2.5°	3167.6	3166.2	3167.6	3168.0	3167.6	3167.6
3°	3164.9	3163.0	3164.9	3164.9	3164.9	3164.4
3.5°	3161.2	3159.4	3161.2	3161.2	3160.8	3160.8
4°	3156.7	3155.3	3156.7	3156.7	3156.7	3156.7
4.5°	3152.1	3150.3	3152.1	3152.1	3152.1	3151.6
5°	3146.6	3144.8	3146.6	3146.6	3146.6	3146.2
5.5°	3140.7	3138.9	3140.7	3140.7	3140.7	3140.3
6°	3133.9	3132.5	3133.9	3133.9	3133.9	3133.9
6.5°	3127.1	3125.7	3127.1	3127.1	3126.6	3126.6
7°	3119.3	3117.9	3119.3	3119.3	3119.3	3118.9
7.5°	3111.1	3109.7	3111.1	3111.1	3110.7	3110.7
8°	3102.5	3101.1	3102.5	3102.5	3102.0	3101.5
8.5°	3092.9	3091.5	3092.9	3092.9	3092.4	3092.0
9°	3083.3	3082.0	3083.3	3082.9	3082.4	3082.0
9.5°	3072.8	3071.5	3072.8	3072.4	3071.9	3071.5
10°	3061.9	3060.5	3061.9	3061.0	3060.5	3060.5
10.5°	3050.1	3048.7	3050.1	3049.6	3048.7	3048.7
11°	3038.2	3036.4	3038.2	3037.3	3036.4	3036.4
11.5°	3025.5	3024.1	3025.5	3024.6	3023.7	3023.2
12°	3012.3	3010.9	3012.3	3011.4	3010.4	3010.0
12.5°	2998.1	2997.2	2998.1	2997.2	2996.8	2996.3
13°	2984.0	2983.1	2984.0	2983.1	2982.2	2981.7
13.5°	2969.4	2968.1	2969.4	2968.5	2967.6	2967.2
14°	2954.0	2953.0	2954.0	2953.5	2952.6	2951.7
14.5°	2938.5	2937.6	2938.5	2937.6	2936.7	2936.2
15°	2922.5	2921.2	2922.5	2921.6	2920.7	2919.8
15.5°	2905.7	2904.3	2905.7	2904.8	2903.9	2903.4
16°	2888.8	2887.5	2888.8	2887.9	2887.0	2886.1
16.5°	2871.5	2870.1	2871.5	2870.6	2869.7	2869.2
17°	2853.7	2852.4	2853.7	2852.8	2851.9	2851.5
17.5°	2835.5	2834.2	2835.5	2834.6	2833.7	2833.7
18°	2816.9	2815.5	2816.9	2816.4	2815.9	2815.0
18.5°	2798.2	2796.8	2798.2	2797.7	2797.3	2796.4
19°	2779.0	2778.1	2779.0	2779.0	2778.6	2777.7
19.5°	2760.4	2759.0	2760.4	2759.9	2759.5	2759.0
20°	2740.8	2739.0	2740.8	2740.8	2740.3	2739.9
20.5°	2720.7	2719.4	2720.7	2720.7	2720.7	2720.7
21°	2700.7	2699.3	2700.7	2701.2	2700.7	2700.2



TEST NUMBER: P776690

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRMW-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2640.1	2638.3	2640.1	2640.6	2641.0	2641.0
23°	2619.6	2617.8	2619.6	2620.1	2620.5	2620.5
23.5°	2598.7	2597.3	2598.7	2599.6	2600.0	2600.0
24°	2577.7	2575.9	2577.7	2579.1	2579.5	2579.5
24.5°	2556.8	2554.9	2556.8	2558.1	2558.6	2559.0
25°	2535.8	2533.5	2535.8	2537.2	2537.6	2537.6
25.5°	2514.4	2512.6	2514.4	2516.2	2516.7	2516.7
26°	2493.9	2491.6	2493.9	2495.3	2495.7	2495.7
26.5°	2472.0	2470.2	2472.0	2473.9	2474.3	2474.3
27°	2451.1	2448.8	2451.1	2452.9	2453.4	2452.9
27.5°	2430.1	2427.8	2430.1	2431.5	2431.9	2431.9
28°	2409.2	2407.4	2409.2	2410.5	2411.0	2410.1
28.5°	2388.7	2386.9	2388.7	2390.0	2390.5	2389.6
29°	2368.6	2366.4	2368.6	2369.5	2370.0	2369.1
29.5°	2348.1	2346.3	2348.1	2349.5	2349.5	2349.0
30°	2327.6	2325.8	2327.6	2329.5	2329.5	2329.5
30.5°	2307.6	2305.3	2307.6	2309.0	2309.9	2309.4
31°	2286.6	2283.9	2286.6	2288.9	2289.8	2289.8
31.5°	2264.8	2261.1	2264.8	2267.1	2268.9	2268.9
32°	2238.8	2233.8	2238.8	2242.9	2246.1	2247.5
32.5°	2209.2	2203.3	2209.2	2216.0	2221.0	2224.2
33°	2177.8	2171.4	2177.8	2185.5	2194.2	2197.8
33.5°	2144.1	2137.7	2144.1	2152.3	2164.1	2167.3
34°	2108.1	2102.6	2108.1	2117.2	2131.3	2132.7
34.5°	2069.8	2064.8	2069.8	2079.8	2092.6	2094.9
35°	2029.3	2024.7	2029.3	2040.2	2051.1	2054.8
35.5°	1987.4	1981.5	1987.4	1998.8	2007.4	2012.4
36°	1944.1	1936.8	1944.1	1955.5	1961.0	1967.3
36.5°	1898.6	1889.4	1898.6	1909.5	1913.1	1920.0
37°	1851.2	1842.1	1851.2	1861.2	1863.9	1870.3
37.5°	1802.9	1793.8	1802.9	1811.1	1813.8	1818.4
38°	1753.7	1746.0	1753.7	1759.2	1761.9	1764.6
38.5°	1703.1	1696.3	1703.1	1705.0	1709.5	1709.5
39°	1650.8	1648.0	1650.8	1651.2	1655.8	1654.9
39.5°	1597.0	1596.6	1597.0	1595.6	1600.2	1598.8
40°	1543.3	1544.2	1543.3	1541.0	1545.1	1542.3
40.5°	1490.0	1490.9	1490.0	1486.3	1489.1	1485.0
41°	1435.8	1438.9	1435.8	1432.6	1433.5	1428.9
41.5°	1383.4	1384.7	1383.4	1379.3	1376.5	1373.4
42°	1329.6	1333.3	1329.6	1326.0	1320.5	1317.8
42.5°	1277.7	1280.9	1277.7	1273.1	1265.4	1262.7
43°	1225.3	1228.5	1225.3	1221.2	1211.2	1207.5
43.5°	1172.9	1175.7	1172.9	1168.8	1156.5	1153.3



TEST NUMBER: P776690

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRMW-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	1023.1	1026.3	1023.1	1015.3	1001.7	996.2
45.5°	975.2	978.4	975.2	966.6	952.5	945.6
46°	928.8	932.9	928.8	918.8	905.1	897.3
46.5°	883.7	888.2	883.7	872.3	859.1	850.4
47°	839.5	844.5	839.5	827.2	814.4	804.9
47.5°	797.1	801.7	797.1	784.4	770.7	761.6
48°	756.6	761.6	756.6	743.4	729.7	720.6
48.5°	717.4	722.9	717.4	703.8	690.1	682.3
49°	680.5	685.5	680.5	666.0	652.7	645.5
49.5°	644.5	650.5	644.5	630.9	617.2	610.8
50°	611.3	616.8	611.3	597.6	583.5	578.9
50.5°	579.4	584.9	579.4	566.7	552.5	549.3
51°	548.9	555.3	548.9	537.5	524.7	522.0
51.5°	521.1	527.0	521.1	510.6	498.8	496.5
52°	495.1	500.1	495.1	486.5	475.5	473.3
52.5°	470.5	475.1	470.5	463.3	453.7	451.9
53°	448.2	451.9	448.2	442.3	435.5	432.3
53.5°	428.2	430.9	428.2	423.2	418.6	416.8
54°	409.5	411.8	409.5	405.9	402.7	402.2
54.5°	393.1	395.8	393.1	390.4	389.0	389.0
55°	379.9	381.7	379.9	378.1	376.2	375.8
55.5°	368.5	371.7	368.5	367.1	365.3	363.5
56°	358.0	361.7	358.0	357.1	355.8	354.8
56.5°	348.5	351.7	348.5	347.6	347.6	347.6
57°	339.4	341.6	339.4	339.8	340.7	340.7
57.5°	332.1	331.6	332.1	333.0	333.9	334.3
58°	325.2	324.3	325.2	326.1	327.1	327.5
58.5°	317.9	317.5	317.9	318.9	319.8	320.2
59°	311.1	310.2	311.1	312.0	312.5	312.9
59.5°	303.8	303.4	303.8	304.3	305.2	305.2
60°	296.5	296.1	296.5	297.0	297.4	297.4
60.5°	288.8	288.3	288.8	289.2	289.7	289.7
61°	281.5	281.0	281.5	282.0	282.4	282.4
61.5°	274.2	273.8	274.2	274.7	275.1	275.1
62°	266.9	266.5	266.9	267.4	267.8	267.8
62.5°	259.6	259.2	259.6	260.1	260.5	260.5
63°	252.4	252.4	252.4	253.3	253.3	253.7
63.5°	245.5	245.5	245.5	246.0	246.4	246.4
64°	238.7	238.2	238.7	239.1	239.6	239.6
64.5°	231.9	231.9	231.9	232.3	232.8	232.8
65°	225.5	225.0	225.5	225.9	226.4	225.9
65.5°	219.1	218.6	219.1	219.6	219.6	219.1
66°	212.3	212.3	212.3	212.7	213.2	212.7



TEST NUMBER: P776690

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRMW-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	193.6	193.6	193.6	194.0	194.0	193.1
68°	187.7	187.7	187.7	188.1	187.7	186.8
68.5°	181.7	181.7	181.7	182.2	181.7	180.8
69°	176.3	175.8	176.3	176.3	175.8	174.5
69.5°	170.4	170.4	170.4	170.8	169.9	168.1
70°	164.9	164.4	164.9	164.9	163.5	162.2
70.5°	159.0	159.0	159.0	159.4	158.1	156.2
71°	154.0	153.5	154.0	154.0	152.6	150.8
71.5°	148.5	148.0	148.5	148.5	146.7	144.9
72°	143.0	142.6	143.0	143.0	141.2	139.4
72.5°	137.6	137.6	137.6	138.0	135.7	133.9
73°	132.6	132.1	132.6	132.6	130.3	128.0
73.5°	127.5	127.1	127.5	127.5	124.8	122.5
74°	122.5	122.1	122.5	122.1	119.3	117.5
74.5°	117.5	117.1	117.5	117.1	114.3	112.1
75°	112.5	112.5	112.5	112.1	108.9	107.0
75.5°	107.5	107.5	107.5	107.5	103.9	102.0
76°	102.9	102.9	102.9	102.5	98.8	97.0
76.5°	98.4	97.9	98.4	97.5	93.8	92.0
77°	93.8	93.4	93.8	92.9	89.3	87.0
77.5°	89.3	88.8	89.3	88.4	84.3	82.0
78°	84.7	84.3	84.7	83.4	79.7	77.4
78.5°	80.2	80.2	80.2	78.8	74.7	72.9
79°	75.6	75.6	75.6	74.2	70.1	68.3
79.5°	71.5	71.5	71.5	70.1	65.6	63.8
80°	67.0	67.0	67.0	65.6	61.0	59.2
80.5°	62.9	62.9	62.9	61.5	56.9	55.1
81°	58.8	58.8	58.8	56.9	52.4	50.6
81.5°	54.7	54.7	54.7	52.8	47.8	46.5
82°	50.6	50.6	50.6	48.7	43.7	42.4
82.5°	46.9	46.9	46.9	44.6	39.6	37.8
83°	42.8	42.8	42.8	40.5	35.5	33.7
83.5°	39.2	38.7	39.2	36.9	31.4	29.6
84°	35.1	35.1	35.1	33.3	27.3	26.0
84.5°	31.4	31.4	31.4	29.6	23.2	21.9
85°	27.8	27.8	27.8	26.0	19.6	18.2
85.5°	24.1	24.1	24.1	22.3	16.4	14.6
86°	20.5	20.5	20.5	19.1	13.2	11.8
86.5°	16.9	17.3	16.9	15.5	10.9	9.6
87°	13.7	13.7	13.7	12.8	8.7	7.3
87.5°	10.5	10.5	10.5	9.6	6.4	5.5
88°	7.3	7.7	7.3	6.8	4.6	3.6
88.5°	5.5	5.9	5.5	4.6	2.7	1.8



TEST NUMBER: P776690  
CATALOG NUMBER: HCDJBL54050CSD-HCD62TRMW-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.9	1.4	0.9	0.5	0.5	0.0



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°

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

Scaled Data Report



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

Scaled Data Report





21.5°	2680.7	2681.1	2680.7	2680.7	2679.3	2680.7	2680.7	2681.1	2680.7	2681.1	2680.7
22°	2661.1	2661.1	2661.1	2660.2	2658.8	2660.2	2661.1	2661.1	2661.1	2661.1	2661.1



44°	1099.6	1102.8	1116.4	1122.4	1125.1	1122.4	1116.4	1102.8	1099.6	1102.8	1116.4
44.5°	1046.8	1051.8	1065.0	1072.3	1075.0	1072.3	1065.0	1051.8	1046.8	1051.8	1065.0



66.5°	205.9	206.8	206.8	206.3	205.9	206.3	206.8	206.8	205.9	206.8	206.8
67°	199.5	200.4	200.4	200.0	199.5	200.0	200.4	200.4	199.5	200.4	200.4



89°	0.9	1.4	2.7	3.6	4.1	3.6	2.7	1.4	0.9	1.4	2.7
89.5°	0.5	0.5	1.4	2.3	2.7	2.3	1.4	0.5	0.5	0.5	1.4



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

Scaled Data Report





21.5°	2680.7	2679.3	2680.7	2680.7	2681.1	2680.7
22°	2660.2	2658.8	2660.2	2661.1	2661.1	2661.1



44°	1122.4	1125.1	1122.4	1116.4	1102.8	1099.6
44.5°	1072.3	1075.0	1072.3	1065.0	1051.8	1046.8

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

Scaled Data Report



66.5°	206.3	205.9	206.3	206.8	206.8	205.9
67°	200.0	199.5	200.0	200.4	200.4	199.5



89°	3.6	4.1	3.6	2.7	1.4	0.9
89.5°	2.3	2.7	2.3	1.4	0.5	0.5

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

Scaled Data Report



(END OF REPORT)