

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: P775975

Luminaire Tested: HCDJBL51525CSD-HCD4TRC-2500lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775975
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: HCDJBL51525CSD-HCD4TRC-2500lm-2700K
Description: 4 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

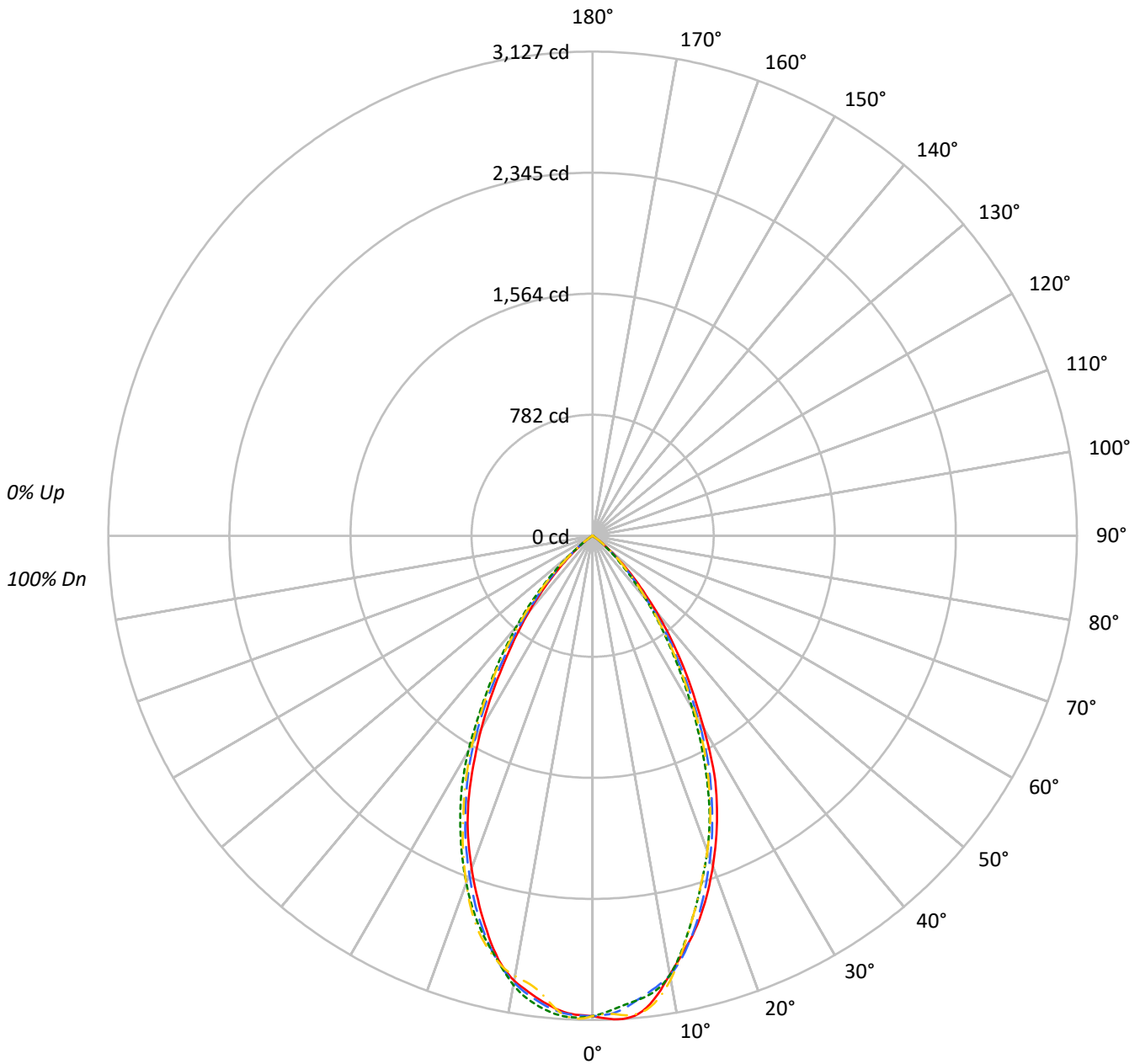
Lumens per Lamp: N/A
Luminaire Lumens: 2822.5 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P775975
CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-2500lm-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P775975

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-2500lm-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	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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93								
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86								
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80								
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	76	74								
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69								
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64								
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60								
8	78	68	62	58	77	68	62	58	67	61	57	66	61	57	65	60	57	56								
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	53	52								
10	71	61	55	51	70	60	54	51	59	54	50	59	54	50	58	53	50	49								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	390474	390474	390474	390474
5°	393128	381581	385535	390336
10°	367630	367821	372805	376460
15°	339404	328954	344042	350361
20°	303960	289978	306103	319415
25°	263348	243088	263584	280802
30°	208445	186647	208416	233208
35°	153895	133308	152036	175927
40°	105093	87893	104173	125596
45°	61794	48001	60851	78524
50°	26275	21341	28330	38100
55°	5310	5200	8974	11212
60°	856	1032	982	1334
65°	506	566	506	804
70°	258	368	368	442
75°	97	243	243	340
80°	0	145	145	145
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°
 Vertical Angle: 45°
 Luminance: 78524 cd/sqm



TEST NUMBER: P775975

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-2500lm-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.2	10.2
10°-20°	730.2	25.9
20°-30°	856.6	30.3
30°-40°	627.0	22.2
40°-50°	276.6	9.8
50°-60°	42.3	1.5
60°-70°	2.1	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
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°	1874.0	66.4
0°-40°	2501.0	88.6
0°-60°	2819.9	99.9
0°-90°	2822.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2822.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3103	3103	3103	3103	3103	
5°	3112	3020	3052	3090	3112	289
15°	2605	2525	2641	2689	2605	725
25°	1896	1751	1898	2022	1896	859
35°	1002	868	990	1145	1002	626
45°	347	270	342	441	347	273
55°	24	24	41	51	24	35
65°	2	2	2	3	2	2
75°	0	0	0	1	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P775975

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-2500lm-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7
0.5°	3108.5	3104.4	3100.2	3099.5	3094.9	3094.9	3097.3	3099.0	3100.7	3101.5	3101.9
1°	3113.6	3105.8	3098.3	3094.4	3088.4	3088.9	3093.0	3095.9	3098.3	3100.0	3101.7
1.5°	3118.2	3107.5	3095.6	3087.9	3080.1	3084.0	3090.1	3094.4	3096.6	3098.1	3100.7
2°	3122.3	3108.5	3091.8	3079.6	3070.9	3079.2	3090.1	3095.4	3094.9	3095.6	3098.8
2.5°	3125.4	3108.0	3085.7	3068.5	3061.5	3075.0	3092.2	3097.6	3091.8	3091.3	3096.4
3°	3127.1	3105.3	3077.9	3056.4	3051.8	3072.6	3095.9	3099.8	3087.4	3084.7	3092.7
3.5°	3126.9	3100.5	3067.5	3043.3	3043.1	3070.9	3100.5	3101.7	3080.4	3076.0	3088.6
4°	3124.5	3093.0	3055.2	3029.2	3034.8	3069.7	3103.9	3101.9	3072.1	3065.3	3082.8
4.5°	3119.6	3082.6	3040.9	3016.2	3027.6	3068.3	3105.3	3100.5	3062.7	3052.5	3075.0
5°	3111.9	3070.0	3026.3	3003.8	3020.5	3065.6	3103.9	3095.9	3051.8	3038.2	3065.8
5.5°	3100.5	3055.4	3012.0	2992.2	3013.5	3061.0	3099.3	3089.3	3039.9	3022.5	3055.2
6°	3086.2	3038.7	2998.0	2982.2	3006.2	3053.7	3091.0	3079.6	3027.8	3007.4	3043.8
6.5°	3067.8	3021.0	2984.4	2972.8	2998.0	3044.8	3079.6	3068.0	3015.0	2992.2	3031.9
7°	3046.0	3001.6	2971.8	2963.6	2988.1	3032.2	3064.9	3053.2	3002.4	2979.1	3019.6
7.5°	3021.7	2980.8	2958.0	2954.4	2976.7	3015.7	3047.2	3036.8	2989.0	2965.8	3006.7
8°	2995.3	2958.7	2944.4	2944.4	2963.1	2996.3	3024.4	3017.4	2975.2	2953.9	2993.1
8.5°	2967.5	2934.0	2930.1	2933.1	2946.9	2974.2	2999.2	2996.3	2961.6	2943.7	2979.3
9°	2936.9	2909.5	2914.9	2919.7	2927.0	2947.6	2971.1	2973.0	2947.3	2934.5	2963.6
9.5°	2906.4	2884.6	2898.2	2904.2	2904.5	2918.5	2941.3	2947.1	2933.3	2925.1	2947.1
10°	2876.8	2859.4	2879.7	2886.3	2878.3	2887.0	2907.6	2919.5	2917.3	2914.9	2928.7
10.5°	2848.2	2833.7	2859.2	2864.7	2849.7	2852.1	2873.2	2889.4	2899.6	2904.0	2910.0
11°	2820.6	2808.0	2836.4	2838.1	2819.2	2815.8	2835.9	2857.9	2879.3	2891.9	2889.2
11.5°	2793.7	2781.1	2810.2	2811.7	2783.8	2779.7	2798.3	2824.0	2857.2	2876.6	2867.4
12°	2766.8	2753.8	2781.9	2780.4	2747.7	2737.0	2756.9	2788.4	2832.5	2859.2	2844.1
12.5°	2740.4	2725.6	2752.8	2745.5	2711.1	2697.8	2718.6	2751.6	2805.4	2837.8	2818.4
13°	2714.7	2697.8	2721.3	2710.1	2674.3	2662.4	2678.9	2714.7	2774.1	2813.1	2792.0
13.5°	2689.1	2667.5	2689.8	2676.7	2636.7	2620.2	2639.9	2677.4	2742.6	2786.9	2764.7
14°	2661.9	2636.5	2657.1	2639.4	2598.7	2583.2	2600.9	2639.6	2710.4	2756.9	2736.3
14.5°	2633.6	2604.7	2623.9	2602.6	2561.1	2547.1	2564.0	2603.3	2676.2	2725.6	2706.7
15°	2605.0	2572.5	2589.0	2565.5	2524.8	2509.0	2524.8	2566.9	2640.6	2693.4	2675.5
15.5°	2574.9	2538.6	2553.9	2527.9	2488.2	2471.7	2488.7	2530.6	2605.9	2660.7	2644.0
16°	2544.2	2505.1	2517.5	2490.4	2451.8	2436.1	2450.4	2495.2	2570.3	2625.8	2612.0
16.5°	2510.7	2469.8	2481.2	2453.5	2415.0	2400.7	2414.0	2461.3	2535.7	2590.9	2579.3
17°	2478.7	2434.9	2443.6	2416.0	2380.1	2364.4	2377.7	2424.9	2500.8	2555.8	2545.6
17.5°	2444.6	2398.5	2406.5	2378.7	2344.0	2329.5	2343.1	2390.3	2463.7	2519.7	2510.5
18°	2410.4	2362.7	2368.5	2341.6	2307.7	2293.4	2305.0	2356.1	2428.6	2483.3	2475.3
18.5°	2375.5	2325.6	2330.7	2304.3	2271.6	2258.2	2269.1	2321.5	2394.2	2445.3	2439.0
19°	2340.9	2289.5	2291.4	2266.2	2236.4	2223.1	2233.8	2285.9	2358.1	2409.0	2402.7
19.5°	2305.3	2252.4	2254.6	2228.9	2200.8	2189.4	2200.1	2252.2	2322.2	2370.7	2365.6
20°	2269.6	2216.8	2215.8	2192.1	2165.2	2154.5	2164.0	2217.8	2285.6	2332.9	2328.5
20.5°	2233.5	2180.0	2178.0	2154.8	2129.8	2120.1	2128.9	2182.4	2249.5	2294.6	2291.0
21°	2197.4	2142.2	2139.8	2117.0	2092.0	2084.3	2094.0	2148.0	2212.7	2257.0	2252.9



TEST NUMBER: P775975

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	2087.4	2027.1	2018.6	1995.6	1973.1	1971.1	1984.7	2041.1	2102.2	2143.4	2140.0
23°	2050.4	1986.9	1977.2	1953.7	1930.4	1929.7	1944.2	2002.6	2065.4	2105.8	2102.9
23.5°	2012.3	1947.4	1935.5	1910.3	1885.6	1890.2	1904.2	1963.6	2024.9	2066.1	2063.4
24°	1973.8	1906.9	1894.3	1866.2	1840.5	1847.5	1862.1	1921.4	1983.5	2026.1	2022.5
24.5°	1936.0	1866.9	1852.4	1820.4	1795.4	1804.9	1819.7	1878.6	1940.1	1984.9	1982.5
25°	1896.5	1825.3	1810.7	1775.6	1750.6	1762.3	1777.5	1835.7	1898.2	1943.3	1944.2
25.5°	1857.5	1784.8	1769.0	1729.5	1705.6	1719.4	1735.1	1793.0	1852.6	1901.1	1902.1
26°	1817.3	1743.8	1727.1	1683.0	1658.3	1672.1	1692.7	1750.1	1806.8	1858.7	1862.3
26.5°	1774.9	1701.4	1684.5	1636.5	1610.6	1627.8	1649.8	1707.3	1761.3	1816.5	1822.6
27°	1728.8	1657.1	1641.3	1590.5	1563.6	1579.6	1604.5	1661.0	1715.5	1774.1	1782.9
27.5°	1682.1	1613.5	1595.1	1545.2	1516.6	1532.3	1562.1	1613.0	1667.0	1732.0	1743.1
28°	1634.1	1567.2	1548.5	1499.8	1468.8	1485.3	1514.6	1564.1	1618.6	1689.8	1703.1
28.5°	1584.4	1519.5	1502.5	1454.0	1422.1	1437.8	1468.1	1516.1	1572.3	1644.0	1659.8
29°	1533.8	1472.0	1455.5	1409.5	1375.8	1390.3	1421.3	1467.4	1526.3	1598.2	1615.2
29.5°	1482.9	1423.0	1408.0	1364.9	1330.0	1342.8	1373.1	1421.6	1480.5	1551.9	1569.1
30°	1434.4	1374.3	1362.0	1320.5	1284.4	1295.1	1323.9	1373.1	1434.2	1504.9	1522.4
30.5°	1386.9	1325.1	1316.2	1276.4	1238.6	1248.8	1277.4	1325.6	1388.1	1457.7	1475.1
31°	1340.4	1274.7	1270.4	1230.6	1194.5	1202.1	1229.9	1280.6	1341.6	1412.1	1427.4
31.5°	1295.3	1227.3	1226.0	1186.5	1150.4	1157.0	1183.6	1236.2	1295.3	1367.1	1380.6
32°	1250.3	1181.7	1182.2	1142.7	1107.1	1115.6	1137.8	1191.2	1250.8	1322.0	1333.6
32.5°	1208.4	1136.6	1139.1	1098.1	1064.9	1072.4	1095.2	1148.5	1205.0	1277.9	1286.9
33°	1167.6	1092.8	1096.9	1054.0	1023.0	1031.0	1051.3	1105.6	1159.9	1233.6	1241.1
33.5°	1126.2	1049.4	1055.2	1013.5	982.0	992.5	1009.7	1063.7	1115.6	1191.2	1193.3
34°	1084.3	1008.0	1013.8	973.1	943.0	950.1	968.7	1023.0	1072.4	1149.0	1147.5
34.5°	1042.1	968.0	973.8	932.9	904.8	911.5	928.3	982.5	1030.0	1107.1	1103.4
35°	1001.7	928.5	933.1	894.8	867.7	876.6	889.2	943.0	989.6	1065.6	1060.8
35.5°	962.2	890.5	892.6	864.3	831.1	838.4	851.4	905.2	950.5	1023.7	1017.4
36°	921.7	868.2	866.0	827.2	796.2	799.1	815.1	866.7	914.0	982.5	976.0
36.5°	883.9	828.7	825.5	790.4	761.8	765.4	779.7	830.8	877.1	941.6	935.5
37°	848.3	788.9	784.8	753.3	727.6	729.8	744.6	794.0	841.0	901.4	897.5
37.5°	812.9	749.2	743.9	716.5	694.4	695.2	711.6	757.4	806.6	862.6	858.7
38°	777.5	709.7	703.2	682.3	661.2	662.2	679.2	724.5	770.8	823.6	822.1
38.5°	741.9	676.0	666.1	648.6	628.3	629.7	647.2	691.5	737.1	787.2	785.8
39°	706.5	643.8	633.4	614.5	596.5	599.5	616.2	656.2	702.2	750.6	750.2
39.5°	672.6	611.8	600.2	581.5	565.0	569.2	584.9	624.4	668.3	715.3	714.3
40°	639.7	579.6	568.4	549.1	535.0	539.6	555.1	593.4	634.1	679.7	680.4
40.5°	607.0	548.8	535.5	516.6	503.7	511.3	526.5	561.9	602.8	645.7	646.9
41°	574.3	519.5	506.4	485.8	475.4	483.1	498.7	531.9	569.9	612.1	614.2
41.5°	543.2	490.2	477.1	456.3	446.3	456.3	472.0	502.5	538.4	579.3	581.5
42°	512.2	461.8	448.7	427.4	418.7	430.3	445.8	474.4	508.3	546.9	550.8
42.5°	482.7	434.2	420.1	399.6	391.6	404.9	420.9	447.0	479.3	516.1	520.0
43°	453.8	406.3	394.7	373.4	365.4	380.4	397.4	419.9	451.2	485.3	490.4
43.5°	426.2	379.9	369.3	347.7	340.4	356.4	373.6	394.5	422.8	455.8	461.6



TEST NUMBER: P775975

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	347.2	306.3	298.3	276.2	269.7	290.8	307.7	323.0	341.9	373.9	382.1
45.5°	322.5	283.0	276.5	254.9	248.8	270.9	287.1	300.5	316.7	348.9	357.2
46°	298.3	261.4	255.9	234.3	231.2	251.3	267.3	279.1	292.7	324.7	332.4
46.5°	274.3	240.6	236.2	215.2	213.5	233.8	248.1	259.0	268.7	301.7	309.2
47°	251.0	220.5	217.3	197.2	195.5	216.4	231.2	239.4	246.9	279.1	287.6
47.5°	228.7	201.4	199.2	180.3	177.8	198.9	214.4	221.9	229.2	257.8	266.0
48°	208.4	182.9	182.0	164.8	160.4	181.5	197.5	204.5	211.5	239.6	245.0
48.5°	188.0	165.5	165.7	150.2	146.3	164.3	180.5	187.1	193.8	221.5	226.3
49°	168.9	149.3	150.2	136.2	133.3	149.5	163.6	169.6	175.9	203.0	207.7
49.5°	151.2	133.8	135.7	123.6	120.9	135.2	148.0	154.3	158.5	184.9	189.0
50°	134.2	119.0	121.4	111.7	109.0	121.6	134.0	139.6	144.7	166.7	170.6
50.5°	119.0	104.9	108.3	100.3	97.9	108.8	120.2	126.2	131.8	151.2	154.6
51°	104.4	91.8	96.0	89.2	87.5	96.4	107.3	113.9	119.5	136.7	139.6
51.5°	90.6	81.4	83.8	80.0	77.5	85.0	94.7	101.8	107.8	123.3	124.5
52°	80.0	71.0	73.9	70.8	67.8	74.4	83.6	90.4	96.9	110.7	110.7
52.5°	69.5	60.6	64.2	61.5	58.4	64.2	72.2	79.5	86.5	98.6	97.4
53°	59.1	50.2	54.5	52.1	49.7	54.5	62.0	69.3	76.8	87.2	85.3
53.5°	48.7	39.7	44.8	43.1	41.4	45.8	52.6	59.4	66.6	76.6	73.7
54°	38.3	32.2	36.8	35.4	34.4	37.8	43.6	50.4	57.2	66.4	63.0
54.5°	30.8	25.7	29.8	28.6	29.1	32.0	35.9	41.9	48.5	56.5	53.3
55°	24.2	19.1	23.3	22.0	23.7	26.2	30.0	34.6	40.9	47.7	44.1
55.5°	17.7	13.3	17.0	16.0	18.4	20.4	24.5	29.1	35.1	39.7	36.1
56°	12.1	9.0	11.6	11.1	13.1	14.5	18.9	23.5	29.6	33.4	30.5
56.5°	8.0	7.8	8.0	8.0	8.0	9.0	13.3	17.9	23.7	27.4	24.7
57°	7.0	6.8	7.3	7.3	6.8	6.8	7.8	12.6	17.9	21.3	19.1
57.5°	6.1	5.6	6.3	6.5	6.1	6.1	6.1	7.0	12.4	15.3	13.6
58°	5.1	4.6	5.6	5.8	5.6	5.3	5.3	5.6	6.5	9.2	8.0
58.5°	4.4	4.1	4.8	5.1	5.1	5.1	4.8	4.8	5.3	6.5	6.1
59°	3.9	3.9	4.4	4.6	4.6	4.6	4.4	4.4	4.6	5.3	5.3
59.5°	3.6	3.6	4.1	4.4	4.4	4.4	4.1	4.1	4.1	4.6	4.8
60°	3.4	3.1	3.6	3.9	4.1	3.9	3.9	3.6	3.9	4.1	4.4
60.5°	3.1	2.9	3.4	3.6	3.9	3.6	3.4	3.4	3.6	3.9	4.1
61°	2.9	2.9	3.1	3.4	3.4	3.4	3.1	3.1	3.1	3.6	3.6
61.5°	2.7	2.7	2.9	3.1	3.4	3.1	2.9	2.9	2.9	3.1	3.4
62°	2.4	2.4	2.7	2.9	3.1	2.9	2.9	2.7	2.7	2.9	3.1
62.5°	2.2	2.2	2.7	2.9	2.9	2.7	2.7	2.7	2.7	2.9	2.9
63°	2.2	2.2	2.4	2.7	2.7	2.7	2.4	2.4	2.4	2.7	2.7
63.5°	1.9	1.9	2.2	2.4	2.4	2.4	2.2	2.2	2.2	2.4	2.7
64°	1.9	1.9	2.2	2.2	2.4	2.2	2.2	2.2	2.2	2.2	2.4
64.5°	1.7	1.7	1.9	2.2	2.2	2.2	1.9	1.9	1.9	2.2	2.2
65°	1.7	1.7	1.9	1.9	1.9	1.9	1.9	1.7	1.7	1.9	2.2
65.5°	1.5	1.5	1.7	1.9	1.9	1.9	1.7	1.7	1.7	1.9	1.9
66°	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.5	1.5	1.7	1.7



TEST NUMBER: P775975

CATALOG NUMBER: HCDJBL1525CSD-HCD4TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.2	1.2	1.2	1.5	1.5	1.5	1.5	1.2	1.2	1.5	1.5
68°	1.0	1.0	1.2	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.5
68.5°	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
69°	1.0	1.0	1.0	1.2	1.2	1.2	1.0	1.0	1.0	1.2	1.2
69.5°	0.7	0.7	1.0	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.2
70°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	0.7	0.7	1.0	1.0
71°	0.7	0.7	0.7	1.0	1.0	1.0	0.7	0.7	0.7	1.0	1.0
71.5°	0.5	0.5	0.7	0.7	1.0	0.7	0.7	0.7	0.7	0.7	1.0
72°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
73°	0.5	0.5	0.5	0.7	0.7	0.7	0.5	0.5	0.5	0.7	0.7
73.5°	0.5	0.5	0.5	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.7
74°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.2	0.2	0.5	0.5
76.5°	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.5
77°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
78.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
79°	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
79.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.2
81°	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.2	0.2
81.5°	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.2
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775975
CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-2500lm-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775975

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7
0.5°	3105.6	3105.3	3107.5	3109.9	3110.2	3108.5
1°	3107.3	3109.0	3112.6	3116.0	3116.5	3113.6
1.5°	3108.2	3111.6	3115.7	3119.6	3121.6	3118.2
2°	3109.0	3113.1	3116.0	3120.8	3125.2	3122.3
2.5°	3109.4	3112.8	3113.3	3118.4	3126.4	3125.4
3°	3109.2	3111.1	3106.3	3110.9	3125.0	3127.1
3.5°	3109.0	3108.2	3095.4	3099.5	3120.1	3126.9
4°	3108.7	3103.6	3081.3	3082.3	3112.1	3124.5
4.5°	3107.5	3097.6	3063.7	3062.0	3100.7	3119.6
5°	3105.6	3089.8	3042.6	3039.2	3085.7	3111.9
5.5°	3103.4	3080.6	3021.3	3014.7	3068.3	3100.5
6°	3100.0	3070.2	2999.7	2991.7	3051.3	3086.2
6.5°	3094.2	3059.3	2978.8	2970.4	3033.6	3067.8
7°	3085.7	3047.4	2960.9	2952.0	3012.5	3046.0
7.5°	3074.6	3034.8	2946.4	2936.4	2992.9	3021.7
8°	3058.8	3020.5	2934.0	2923.6	2972.1	2995.3
8.5°	3039.9	3005.3	2923.6	2913.9	2950.5	2967.5
9°	3018.6	2987.6	2914.2	2904.5	2928.2	2936.9
9.5°	2993.9	2967.7	2906.9	2895.7	2906.6	2906.4
10°	2965.5	2945.9	2897.4	2886.8	2884.1	2876.8
10.5°	2937.9	2921.7	2887.3	2877.3	2861.8	2848.2
11°	2908.3	2896.5	2875.9	2866.2	2838.8	2820.6
11.5°	2877.6	2870.1	2862.5	2853.3	2816.5	2793.7
12°	2848.7	2843.9	2846.1	2837.8	2794.0	2766.8
12.5°	2820.9	2817.5	2828.6	2819.9	2771.4	2740.4
13°	2792.3	2791.1	2810.0	2801.7	2749.9	2714.7
13.5°	2763.9	2765.6	2789.4	2781.4	2726.4	2689.1
14°	2736.5	2739.9	2767.8	2760.0	2702.1	2661.9
14.5°	2708.9	2715.2	2745.8	2738.0	2676.9	2633.6
15°	2680.8	2689.1	2721.0	2714.3	2650.8	2605.0
15.5°	2653.0	2663.6	2695.6	2690.0	2622.4	2574.9
16°	2622.9	2636.5	2668.7	2663.1	2593.6	2544.2
16.5°	2593.3	2608.9	2641.3	2634.1	2564.0	2510.7
17°	2560.6	2579.5	2612.2	2604.0	2532.8	2478.7
17.5°	2528.9	2550.0	2580.7	2571.5	2500.5	2444.6
18°	2495.0	2518.7	2547.1	2537.4	2467.4	2410.4
18.5°	2461.3	2486.5	2513.4	2501.3	2431.7	2375.5
19°	2425.7	2452.6	2477.5	2463.5	2397.3	2340.9
19.5°	2390.5	2420.1	2441.4	2424.9	2361.9	2305.3
20°	2354.0	2385.0	2405.3	2387.1	2325.8	2269.6
20.5°	2318.6	2351.3	2366.1	2347.9	2289.3	2233.5
21°	2282.0	2315.2	2329.0	2308.2	2252.7	2197.4

TEST NUMBER: P775975

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2174.2	2209.1	2214.6	2186.5	2139.5	2087.4
23°	2136.6	2173.0	2174.7	2145.8	2101.2	2050.4
23.5°	2099.1	2135.4	2133.9	2103.9	2060.5	2012.3
24°	2062.7	2098.3	2094.0	2060.3	2021.3	1973.8
24.5°	2025.6	2060.5	2052.5	2017.6	1980.1	1936.0
25°	1987.1	2022.2	2009.6	1975.5	1941.1	1896.5
25.5°	1949.8	1984.0	1968.9	1933.8	1898.4	1857.5
26°	1912.5	1945.2	1928.7	1893.3	1858.9	1817.3
26.5°	1873.0	1906.7	1887.8	1851.9	1817.7	1774.9
27°	1833.2	1867.4	1847.5	1811.7	1776.1	1728.8
27.5°	1793.8	1827.2	1806.1	1770.7	1730.8	1682.1
28°	1754.0	1785.0	1764.2	1729.1	1689.8	1634.1
28.5°	1714.5	1741.2	1722.5	1686.4	1645.0	1584.4
29°	1670.2	1697.3	1680.1	1644.5	1598.7	1533.8
29.5°	1624.4	1651.8	1638.2	1600.6	1552.9	1482.9
30°	1576.2	1604.8	1594.1	1556.1	1505.7	1434.4
30.5°	1527.0	1556.8	1548.1	1510.3	1456.2	1386.9
31°	1481.4	1507.4	1502.8	1464.5	1408.7	1340.4
31.5°	1430.8	1457.4	1456.5	1418.9	1359.8	1295.3
32°	1378.2	1409.5	1410.9	1374.8	1313.3	1250.3
32.5°	1332.2	1362.2	1364.2	1330.2	1267.2	1208.4
33°	1284.4	1316.7	1320.3	1287.6	1221.7	1167.6
33.5°	1236.7	1270.1	1272.8	1244.7	1178.8	1126.2
34°	1191.6	1228.5	1229.2	1201.3	1137.4	1084.3
34.5°	1148.7	1186.5	1187.3	1158.9	1096.9	1042.1
35°	1107.3	1145.1	1143.7	1117.5	1056.7	1001.7
35.5°	1066.6	1104.4	1101.7	1075.6	1018.1	962.2
36°	1026.4	1064.4	1061.5	1034.6	979.4	921.7
36.5°	986.2	1025.2	1021.1	992.7	942.1	883.9
37°	946.7	985.7	980.1	951.5	904.8	848.3
37.5°	907.7	946.7	942.6	912.7	865.0	812.9
38°	869.1	907.2	902.8	874.9	829.2	777.5
38.5°	831.1	869.4	861.1	838.1	793.8	741.9
39°	793.5	834.5	826.2	801.0	758.2	706.5
39.5°	757.7	799.4	791.4	764.2	722.5	672.6
40°	722.8	764.5	756.7	727.1	687.2	639.7
40.5°	688.6	729.6	721.8	690.3	653.7	607.0
41°	657.6	694.7	686.9	655.7	620.8	574.3
41.5°	624.2	661.5	652.3	621.7	588.5	543.2
42°	592.9	629.0	618.1	588.8	556.8	512.2
42.5°	562.1	596.1	585.2	557.3	526.0	482.7
43°	533.8	563.8	552.2	526.0	495.3	453.8
43.5°	503.3	532.1	520.2	494.5	464.7	426.2



TEST NUMBER: P775975

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	420.6	441.2	430.3	407.6	377.5	347.2
45.5°	392.8	412.6	401.5	380.2	350.4	322.5
46°	367.3	385.0	373.9	353.3	324.4	298.3
46.5°	341.6	358.1	347.7	327.6	299.0	274.3
47°	317.4	332.0	321.5	302.6	274.8	251.0
47.5°	292.9	306.5	296.6	278.4	251.0	228.7
48°	270.2	282.3	271.9	254.9	229.2	208.4
48.5°	247.9	258.8	249.1	233.3	208.6	188.0
49°	227.8	236.7	227.3	211.5	188.5	168.9
49.5°	207.9	215.4	206.4	191.2	169.6	151.2
50°	187.8	194.6	185.1	171.3	152.4	134.2
50.5°	167.9	175.2	166.7	152.9	135.2	119.0
51°	150.7	157.0	148.8	135.9	119.5	104.4
51.5°	134.5	139.8	132.5	119.7	105.2	90.6
52°	118.7	123.8	116.3	104.2	91.1	80.0
52.5°	104.4	109.0	102.0	90.6	80.4	69.5
53°	91.3	94.7	88.2	80.0	69.5	59.1
53.5°	78.7	82.4	77.8	69.1	58.9	48.7
54°	66.9	72.0	67.4	58.4	48.0	38.3
54.5°	56.7	61.5	56.9	47.7	37.3	30.8
55°	47.0	51.1	46.5	37.1	30.3	24.2
55.5°	38.3	40.5	36.1	29.8	23.5	17.7
56°	32.5	33.0	29.1	23.5	17.2	12.1
56.5°	26.7	26.4	23.0	17.0	11.4	8.0
57°	20.8	19.9	16.5	11.6	7.8	7.0
57.5°	15.0	14.3	11.4	8.0	7.0	6.1
58°	9.2	9.9	8.2	7.0	6.1	5.1
58.5°	7.0	8.7	7.5	6.3	5.1	4.4
59°	6.1	7.8	6.5	5.3	4.4	3.9
59.5°	5.6	6.5	5.8	4.6	3.9	3.6
60°	5.1	5.3	4.8	4.1	3.6	3.4
60.5°	4.6	4.8	4.6	3.9	3.4	3.1
61°	4.4	4.6	4.1	3.6	3.1	2.9
61.5°	3.9	4.1	3.9	3.4	2.9	2.7
62°	3.6	3.9	3.6	3.1	2.7	2.4
62.5°	3.4	3.6	3.4	2.9	2.4	2.2
63°	3.1	3.4	3.1	2.7	2.4	2.2
63.5°	2.9	3.1	2.9	2.4	2.2	1.9
64°	2.7	2.9	2.7	2.2	1.9	1.9
64.5°	2.7	2.7	2.4	2.2	1.9	1.7
65°	2.4	2.7	2.4	1.9	1.7	1.7
65.5°	2.2	2.4	2.2	1.9	1.7	1.5
66°	2.2	2.2	1.9	1.7	1.5	1.5



TEST NUMBER: P775975
 CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.7	1.9	1.7	1.5	1.2	1.2
68°	1.7	1.7	1.5	1.2	1.2	1.0
68.5°	1.5	1.7	1.5	1.2	1.0	1.0
69°	1.5	1.5	1.5	1.2	1.0	1.0
69.5°	1.2	1.5	1.2	1.0	1.0	0.7
70°	1.2	1.2	1.2	1.0	0.7	0.7
70.5°	1.2	1.2	1.2	1.0	0.7	0.7
71°	1.0	1.2	1.0	1.0	0.7	0.7
71.5°	1.0	1.0	1.0	0.7	0.7	0.5
72°	1.0	1.0	1.0	0.7	0.7	0.5
72.5°	1.0	1.0	0.7	0.7	0.5	0.5
73°	0.7	0.7	0.7	0.7	0.5	0.5
73.5°	0.7	0.7	0.7	0.5	0.5	0.5
74°	0.7	0.7	0.7	0.5	0.5	0.5
74.5°	0.7	0.7	0.7	0.5	0.5	0.2
75°	0.5	0.7	0.5	0.5	0.5	0.2
75.5°	0.5	0.5	0.5	0.5	0.2	0.2
76°	0.5	0.5	0.5	0.5	0.2	0.2
76.5°	0.5	0.5	0.5	0.2	0.2	0.2
77°	0.5	0.5	0.5	0.2	0.2	0.2
77.5°	0.5	0.5	0.5	0.2	0.2	0.2
78°	0.5	0.5	0.2	0.2	0.2	0.2
78.5°	0.2	0.2	0.2	0.2	0.2	0.2
79°	0.2	0.2	0.2	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.0
80°	0.2	0.2	0.2	0.2	0.0	0.0
80.5°	0.2	0.2	0.2	0.2	0.0	0.0
81°	0.2	0.2	0.2	0.2	0.0	0.0
81.5°	0.2	0.2	0.2	0.0	0.0	0.0
82°	0.2	0.2	0.2	0.0	0.0	0.0
82.5°	0.2	0.2	0.2	0.0	0.0	0.0
83°	0.2	0.2	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775975
CATALOG NUMBER: HCDJBL1525CSD-HCD4TRC-2500lm-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



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°	2161.3	2104.6	2100.3	2077.0	2053.7	2048.4	2060.5	2113.3	2175.6	2218.3	2215.6
22°	2125.0	2065.9	2060.5	2036.3	2014.0	2010.4	2023.5	2078.2	2139.0	2181.2	2177.8



44°	399.1	354.5	344.6	322.5	316.4	333.9	350.9	369.8	394.7	427.4	434.4
44.5°	372.4	330.0	321.0	298.8	292.5	311.8	328.8	345.8	368.1	400.3	407.6



66.5°	1.2	1.2	1.5	1.7	1.7	1.7	1.5	1.5	1.5	1.7	1.7
67°	1.2	1.2	1.5	1.5	1.7	1.5	1.5	1.5	1.5	1.5	1.7



89°	0.0	0.0	0.0	0.0	0.0	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	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





21.5°	2245.9	2280.3	2291.2	2268.2	2215.4	2161.3
22°	2209.3	2244.2	2252.4	2228.2	2178.5	2125.0



44°	474.9	501.3	489.2	464.7	434.4	399.1
44.5°	447.0	471.0	459.9	435.9	406.3	372.4



66.5°	1.9	2.2	1.9	1.7	1.5	1.2
67°	1.9	1.9	1.7	1.5	1.2	1.2

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
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)