

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: P776056

Luminaire Tested: HCDJBL51525CSD-HCD62TRH-2500lm-3000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776056  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B056)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD62TRH-2500lm-3000K  
Description: 6 INCH ROUND NARROW HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

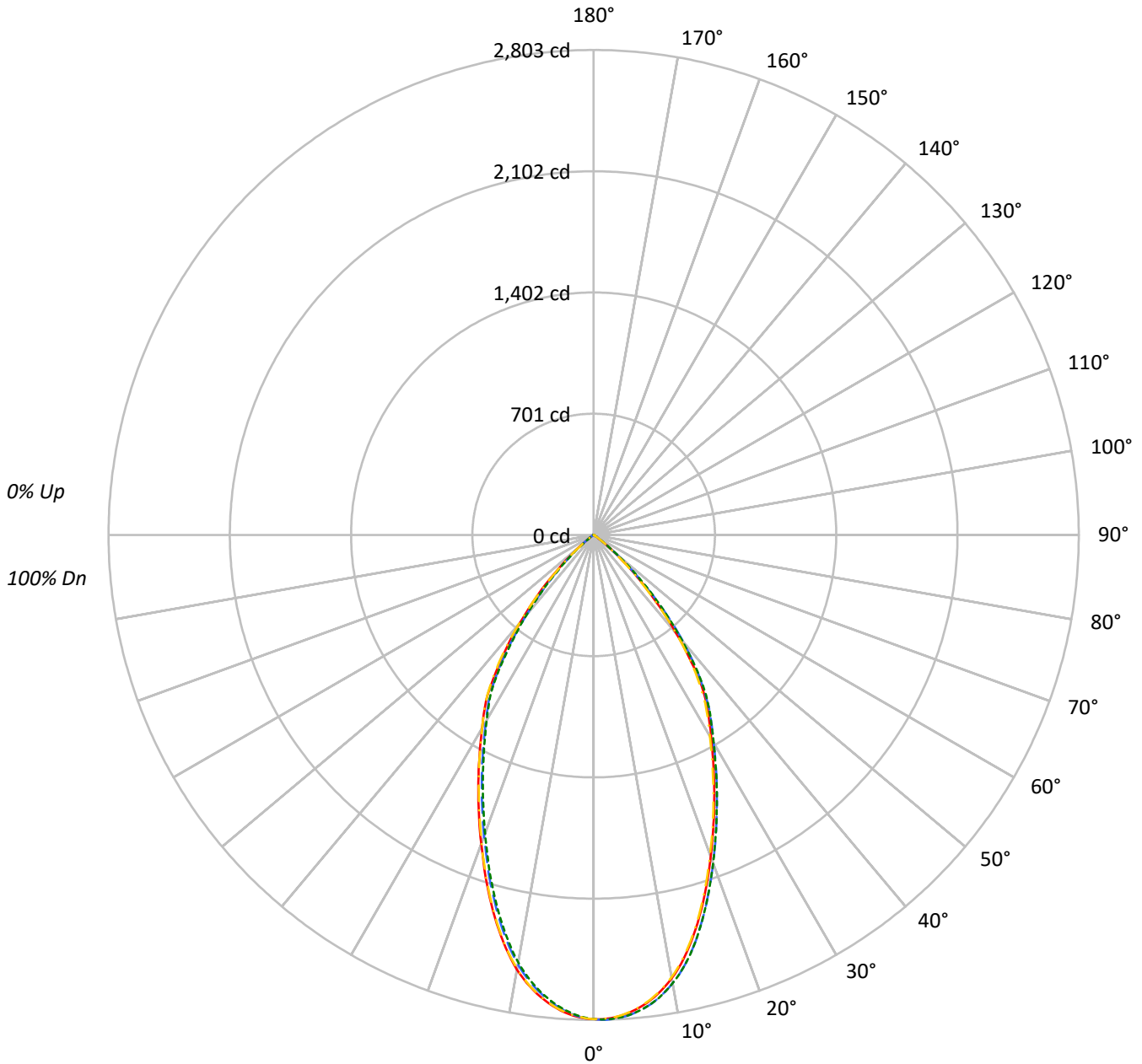
Lumens per Lamp: N/A  
Luminaire Lumens: 2604.1 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.82 / 0.91  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P776056  
CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P776056

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	99	98	97	96	95	93
	1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	92	91	90	89	88	86
	2	107	102	98	95	105	101	97	93	97	94	91	94	92	89	92	89	88	86	86	85	84	83	82	81	79
	3	102	95	90	86	100	93	89	85	91	87	83	88	85	82	86	83	81	79	79	78	77	76	75	73	73
	4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	72	71	70	69	68	68
	5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	67	66	65	64	63	63
	6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63	63	62	61	60	59	58	58
	7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	57	56	55	54	53	53
	8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54	54	53	52	51	50	49	49
	9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	50	49	48	47	46	46
	10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47	47	46	45	44	43	42	42

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

	0°	90°	180°	270°
0°	153420	153420	153420	153420
5°	151639	152498	150308	149196
10°	144798	146435	142009	139643
15°	131715	134081	127538	124212
20°	115411	117733	110814	107039
25°	99804	101909	95316	91493
30°	86102	87741	81690	78265
35°	73997	75730	67432	63858
40°	53307	56527	47317	43181
45°	31569	35267	26933	23390
50°	13083	15300	9253	7710
55°	2217	2925	2217	1462
60°	921	866	899	735
65°	545	519	545	454
70°	353	353	353	321
75°	254	212	254	212
80°	158	158	158	158
85°	0	126	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°  
 Vertical Angle: 45°  
 Luminance: 37523 cd/sqm



TEST NUMBER: P776056

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.4	9.8
10°-20°	633.8	24.3
20°-30°	737.3	28.3
30°-40°	641.2	24.6
40°-50°	295.0	11.3
50°-60°	34.8	1.3
60°-70°	4.2	0.2
70°-80°	1.2	0.0
80°-90°	0.2	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°	1627.5	62.5
0°-40°	2268.8	87.1
0°-60°	2598.6	99.8
0°-90°	2604.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2604.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2799	2799	2799	2799	2799	
5°	2756	2771	2731	2711	2756	258
15°	2321	2362	2247	2189	2321	645
25°	1650	1685	1576	1513	1650	758
35°	1106	1132	1008	954	1106	672
45°	407	455	347	302	407	320
55°	23	31	23	15	23	39
65°	4	4	4	4	4	5
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P776056

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6
0.5°	2799.9	2801.8	2802.1	2799.9	2800.4	2798.9	2797.9	2798.4	2797.9	2798.1	2797.6
1°	2799.4	2802.1	2803.1	2801.8	2801.1	2798.9	2797.6	2796.7	2795.2	2794.9	2793.9
1.5°	2797.1	2801.1	2803.1	2802.6	2801.1	2798.1	2795.9	2793.7	2791.2	2790.0	2788.5
2°	2794.7	2799.6	2801.8	2802.3	2799.9	2796.7	2793.4	2789.5	2786.3	2784.1	2781.6
2.5°	2790.7	2796.7	2799.4	2801.1	2797.9	2793.4	2789.2	2784.1	2780.1	2776.9	2773.7
3°	2785.8	2792.7	2795.7	2799.1	2794.4	2789.7	2784.1	2778.1	2772.4	2768.5	2764.5
3.5°	2780.1	2787.5	2791.5	2795.9	2790.5	2785.0	2777.9	2771.0	2764.0	2758.6	2754.6
4°	2772.9	2781.3	2785.8	2791.5	2785.5	2778.9	2771.0	2762.1	2754.2	2748.0	2743.5
4.5°	2764.8	2774.2	2779.6	2785.8	2779.1	2771.4	2762.6	2752.7	2743.3	2736.1	2731.2
5°	2755.6	2766.0	2771.4	2779.6	2771.2	2763.3	2752.9	2742.0	2731.4	2723.0	2717.1
5.5°	2745.8	2756.9	2763.0	2771.7	2762.8	2753.4	2742.3	2730.7	2718.8	2709.2	2702.8
6°	2734.1	2746.2	2753.7	2763.3	2752.9	2742.8	2730.9	2716.8	2704.2	2693.9	2686.9
6.5°	2722.0	2735.4	2742.8	2753.4	2741.8	2731.2	2718.1	2702.8	2689.4	2678.5	2670.4
7°	2708.0	2722.3	2730.4	2742.8	2730.2	2718.6	2704.0	2687.9	2673.4	2661.7	2653.1
7.5°	2692.9	2708.4	2717.1	2730.4	2716.6	2703.5	2688.7	2672.4	2655.6	2643.0	2634.1
8°	2676.8	2692.9	2701.8	2717.1	2702.0	2687.7	2672.4	2654.3	2637.3	2623.7	2613.8
8.5°	2659.8	2677.1	2686.2	2702.5	2685.7	2671.9	2654.8	2635.3	2617.5	2603.2	2592.8
9°	2641.2	2659.5	2668.7	2686.0	2668.7	2654.1	2636.3	2615.5	2596.8	2581.2	2570.3
9.5°	2621.7	2640.5	2650.9	2668.7	2650.4	2634.8	2616.0	2595.5	2574.5	2558.5	2546.6
10°	2601.2	2620.2	2630.9	2650.1	2630.6	2614.6	2595.3	2572.1	2551.1	2534.3	2521.2
10.5°	2578.7	2600.0	2610.4	2630.6	2610.6	2593.8	2572.3	2548.6	2525.6	2506.8	2493.5
11°	2555.5	2577.2	2588.1	2610.1	2588.1	2570.6	2548.8	2522.9	2498.7	2477.4	2464.3
11.5°	2530.3	2552.5	2564.2	2587.9	2564.6	2546.4	2523.4	2496.2	2470.0	2448.8	2434.9
12°	2503.1	2527.1	2538.5	2563.7	2539.4	2520.2	2495.7	2467.1	2441.1	2419.4	2404.3
12.5°	2475.2	2499.4	2512.0	2538.0	2513.3	2492.7	2467.3	2438.4	2410.2	2387.7	2372.4
13°	2446.3	2471.3	2484.6	2511.3	2485.3	2464.6	2438.6	2408.2	2379.3	2355.6	2339.8
13.5°	2416.4	2442.1	2455.9	2483.6	2456.4	2434.7	2408.2	2377.1	2347.2	2322.8	2306.0
14°	2385.3	2412.0	2425.5	2455.4	2425.8	2404.5	2376.9	2344.7	2314.4	2290.4	2273.1
14.5°	2353.6	2380.6	2394.9	2423.8	2394.4	2372.2	2344.3	2311.9	2281.5	2255.3	2238.8
15°	2320.8	2348.7	2362.0	2393.9	2362.5	2339.6	2311.6	2278.8	2247.2	2221.7	2204.2
15.5°	2287.4	2315.6	2328.9	2361.6	2330.2	2306.7	2278.8	2245.2	2213.1	2187.1	2169.1
16°	2254.1	2282.5	2296.1	2328.4	2296.3	2273.1	2245.4	2210.6	2178.7	2152.8	2134.5
16.5°	2220.7	2249.1	2263.2	2295.3	2262.5	2239.5	2211.6	2177.0	2144.9	2117.4	2099.7
17°	2187.1	2215.0	2228.4	2261.7	2228.6	2205.2	2176.2	2142.1	2109.8	2082.1	2063.8
17.5°	2152.0	2180.7	2193.8	2226.9	2193.5	2169.6	2141.7	2108.1	2074.4	2047.3	2027.5
18°	2117.4	2145.6	2159.2	2192.3	2158.7	2134.7	2106.8	2073.0	2038.9	2011.2	1990.9
18.5°	2082.8	2111.3	2124.1	2157.0	2123.4	2100.1	2072.0	2036.6	2003.8	1975.4	1955.1
19°	2047.8	2076.7	2088.3	2121.4	2088.5	2065.3	2036.2	2001.6	1967.7	1939.3	1919.5
19.5°	2013.4	2041.6	2053.7	2086.1	2053.2	2030.2	2000.6	1967.5	1932.4	1905.9	1886.2
20°	1978.3	2006.3	2017.9	2051.0	2018.1	1994.6	1966.2	1931.6	1899.5	1872.6	1852.6
20.5°	1943.5	1972.2	1983.5	2015.2	1982.5	1959.3	1931.1	1898.8	1866.7	1839.2	1819.0
21°	1909.4	1937.8	1949.7	1981.3	1947.7	1925.0	1898.3	1865.9	1833.8	1805.9	1785.4



TEST NUMBER: P776056

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1809.3	1836.3	1847.1	1876.8	1847.9	1825.9	1799.9	1767.3	1734.2	1706.3	1685.6
23°	1776.7	1802.7	1814.0	1843.2	1814.8	1792.8	1767.1	1734.0	1702.1	1673.2	1653.7
23.5°	1744.8	1770.1	1781.2	1809.8	1781.9	1759.7	1733.5	1701.9	1669.7	1641.6	1621.8
24°	1712.2	1738.2	1748.3	1776.2	1748.8	1727.1	1700.9	1670.2	1638.1	1609.9	1589.7
24.5°	1681.4	1706.3	1715.7	1743.4	1716.7	1693.5	1669.0	1638.6	1606.5	1579.1	1558.8
25°	1650.0	1674.7	1684.1	1711.7	1684.8	1662.1	1636.9	1606.7	1575.8	1548.2	1528.2
25.5°	1619.1	1643.3	1652.7	1680.1	1652.7	1631.4	1605.7	1576.3	1545.7	1517.5	1498.5
26°	1588.7	1613.7	1621.8	1648.2	1621.6	1601.1	1575.4	1546.2	1515.6	1487.9	1468.9
26.5°	1559.0	1582.0	1591.4	1616.1	1590.9	1569.7	1545.0	1515.8	1485.4	1458.2	1438.2
27°	1528.9	1551.9	1560.5	1585.7	1560.3	1538.5	1514.6	1486.2	1456.0	1429.1	1409.3
27.5°	1499.3	1522.2	1530.4	1555.6	1529.9	1510.1	1485.2	1456.5	1426.9	1400.4	1380.7
28°	1470.3	1493.8	1500.7	1525.7	1499.8	1480.2	1455.5	1428.1	1398.4	1371.5	1352.7
28.5°	1441.4	1464.9	1471.6	1496.0	1470.8	1450.6	1426.9	1399.2	1369.8	1343.6	1324.8
29°	1414.0	1435.8	1442.9	1466.1	1441.9	1422.2	1399.4	1371.5	1343.1	1316.7	1297.6
29.5°	1387.1	1408.3	1414.3	1437.7	1414.0	1394.5	1371.5	1344.6	1316.2	1290.5	1271.7
30°	1360.2	1381.6	1387.6	1410.3	1386.1	1367.6	1344.6	1318.1	1290.5	1264.3	1246.3
30.5°	1334.0	1355.0	1361.1	1383.1	1359.4	1340.6	1318.4	1291.7	1264.5	1238.8	1221.3
31°	1308.5	1329.0	1335.0	1356.0	1333.7	1315.2	1292.5	1266.5	1239.1	1213.9	1196.1
31.5°	1282.8	1303.1	1309.0	1330.0	1308.0	1290.0	1267.3	1241.8	1214.6	1189.7	1172.4
32°	1258.9	1279.1	1284.3	1304.3	1283.3	1264.5	1243.3	1217.8	1190.4	1165.5	1147.9
32.5°	1234.9	1254.4	1259.6	1279.1	1258.1	1240.1	1218.3	1192.6	1166.2	1141.0	1124.2
33°	1210.9	1230.2	1235.4	1254.7	1234.6	1215.9	1193.9	1167.2	1140.0	1114.1	1096.5
33.5°	1185.7	1205.0	1209.7	1229.9	1209.7	1191.6	1167.7	1138.3	1110.6	1082.9	1063.9
34°	1160.8	1179.3	1182.0	1205.0	1185.2	1166.2	1140.0	1107.9	1078.7	1050.6	1031.8
34.5°	1132.8	1151.4	1152.1	1178.1	1159.3	1139.5	1109.9	1076.3	1043.2	1017.2	996.7
35°	1105.7	1121.7	1122.2	1148.4	1131.6	1112.1	1079.7	1044.9	1007.6	983.1	962.6
35.5°	1075.5	1091.1	1092.3	1119.3	1103.2	1083.7	1049.1	1011.8	970.3	945.3	929.3
36°	1043.4	1059.2	1061.9	1088.9	1073.5	1053.3	1018.4	978.4	935.4	907.8	895.6
36.5°	1008.1	1026.4	1031.5	1059.2	1040.9	1020.2	986.1	944.1	900.8	870.9	859.3
37°	969.8	992.8	1000.9	1028.8	1007.6	985.1	953.0	909.5	867.7	834.6	824.2
37.5°	930.0	958.2	969.5	997.7	972.2	949.8	919.1	873.4	834.1	798.8	787.4
38°	891.4	924.1	936.7	965.8	935.9	913.9	884.8	839.1	801.0	763.7	751.4
38.5°	854.9	888.2	903.1	933.9	898.6	875.6	849.2	804.5	766.4	730.1	713.1
39°	818.3	851.4	869.2	901.6	861.6	836.6	813.9	770.6	732.3	697.7	678.2
39.5°	781.5	814.6	835.1	867.0	825.7	799.3	776.8	736.5	697.0	663.2	641.9
40°	744.9	777.8	801.0	832.4	789.9	763.7	739.5	702.9	661.2	628.6	607.6
40.5°	708.4	741.2	766.9	797.8	754.3	727.9	701.4	669.3	626.1	595.5	572.0
41°	673.5	704.4	733.1	763.2	720.2	693.0	663.6	635.5	593.5	562.3	538.1
41.5°	637.7	668.6	697.2	728.6	686.1	656.7	626.6	601.1	561.1	529.7	503.8
42°	603.6	635.0	661.2	692.3	652.8	622.6	590.5	566.3	529.7	497.4	470.7
42.5°	568.5	601.9	625.6	656.5	618.7	589.0	555.4	532.0	499.3	466.2	439.3
43°	534.7	568.3	589.3	621.6	585.1	555.4	521.6	498.4	468.7	437.3	409.7
43.5°	500.6	533.4	552.7	586.6	551.7	521.1	488.0	464.7	437.6	406.7	379.8



TEST NUMBER: P776056

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	407.2	436.8	449.4	484.0	454.9	424.7	394.3	368.4	347.4	321.2	299.5
45.5°	377.0	405.7	416.1	451.4	424.0	394.3	364.2	338.5	318.7	293.8	274.5
46°	348.9	375.3	384.4	418.8	394.8	364.4	335.8	309.6	291.3	268.1	251.3
46.5°	320.7	345.7	353.3	387.2	364.2	335.5	307.9	281.4	264.6	245.8	230.8
47°	293.5	317.2	322.7	355.8	334.3	309.3	280.9	257.5	240.2	223.9	210.5
47.5°	267.1	289.6	294.0	326.1	306.1	283.1	255.5	233.7	215.9	201.6	190.0
48°	242.4	262.4	266.6	296.5	279.4	257.5	232.7	210.0	191.5	179.6	169.5
48.5°	218.7	235.5	240.7	268.1	254.5	234.5	210.0	186.3	167.0	157.4	152.0
49°	196.2	210.5	215.9	242.4	229.3	211.5	187.5	162.6	146.0	139.4	135.4
49.5°	174.7	186.3	192.0	216.2	204.3	188.5	164.8	143.3	126.3	121.8	120.1
50°	153.4	163.3	169.5	192.2	179.4	165.8	145.5	125.5	108.5	106.5	105.7
50.5°	133.9	141.8	148.5	169.0	154.4	145.5	127.0	109.2	92.9	91.9	92.2
51°	115.4	122.3	129.0	148.0	133.7	126.0	110.4	94.1	79.3	79.3	79.8
51.5°	98.1	104.3	110.7	127.2	115.1	108.5	95.6	81.0	68.2	67.9	68.9
52°	82.0	88.5	93.6	109.0	97.6	91.7	81.8	68.7	58.3	57.8	58.8
52.5°	70.7	77.1	81.5	92.2	81.3	76.8	69.2	57.8	49.7	48.7	49.2
53°	59.3	65.7	69.4	80.3	67.2	63.5	57.6	48.4	42.2	40.8	40.8
53.5°	47.9	54.6	57.3	68.4	54.9	51.6	47.7	40.3	35.6	33.8	33.4
54°	36.8	43.2	45.2	56.6	44.2	41.8	39.0	33.1	29.6	29.9	29.4
54.5°	29.2	32.1	33.1	44.7	35.3	33.4	33.8	29.2	26.4	25.9	25.2
55°	23.2	25.2	25.9	32.9	30.6	29.2	28.7	25.2	23.2	21.7	21.0
55.5°	18.5	19.8	20.0	25.7	26.2	25.0	23.7	21.2	20.0	17.8	17.0
56°	15.6	16.1	15.8	19.8	21.5	20.8	18.8	17.5	16.8	13.8	12.8
56.5°	13.8	14.1	13.8	15.6	16.8	16.6	13.8	13.6	13.6	12.6	11.9
57°	12.8	12.8	12.6	13.3	12.4	12.4	12.6	12.6	12.6	11.9	11.1
57.5°	12.1	12.1	11.6	12.1	11.4	11.4	11.6	11.9	11.6	11.1	10.4
58°	11.1	11.1	10.9	11.1	10.6	10.6	10.9	11.1	10.9	10.4	9.6
58.5°	10.4	10.4	9.9	10.4	9.9	9.9	10.1	10.4	10.1	9.6	8.9
59°	9.6	9.6	9.4	9.6	9.1	9.1	9.4	9.6	9.4	8.9	8.4
59.5°	9.1	8.9	8.6	8.9	8.4	8.4	8.6	8.9	8.9	8.4	7.7
60°	8.4	8.4	8.2	8.4	7.9	7.9	8.2	8.2	8.2	7.7	7.2
60.5°	7.9	7.7	7.4	7.7	7.4	7.4	7.4	7.7	7.7	7.2	6.7
61°	7.2	7.2	6.9	7.2	6.7	6.9	6.9	7.2	7.2	6.7	6.2
61.5°	6.7	6.7	6.4	6.7	6.4	6.4	6.4	6.7	6.7	6.2	5.9
62°	6.2	6.2	5.9	6.2	5.9	5.9	6.2	6.2	6.2	5.9	5.4
62.5°	5.9	5.9	5.4	5.7	5.4	5.4	5.7	5.9	5.9	5.4	5.2
63°	5.4	5.4	5.2	5.4	5.2	5.2	5.2	5.4	5.4	5.2	4.7
63.5°	5.2	5.2	4.9	4.9	4.7	4.9	4.9	5.2	5.2	4.9	4.4
64°	4.9	4.7	4.4	4.7	4.4	4.4	4.7	4.9	4.9	4.7	4.2
64.5°	4.4	4.4	4.2	4.4	4.2	4.2	4.4	4.4	4.4	4.2	4.0
65°	4.2	4.2	4.0	4.2	4.0	4.0	4.2	4.2	4.2	4.0	3.7
65.5°	4.0	4.0	3.7	4.0	3.7	3.7	4.0	4.0	4.0	3.7	3.5
66°	3.7	3.7	3.5	3.7	3.5	3.5	3.7	3.7	3.7	3.5	3.2





TEST NUMBER: P776056

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	3.2	3.0	3.0	3.0	3.0	3.0	3.0	3.2	3.2	3.0	2.7
68°	3.0	3.0	2.7	2.7	2.7	2.7	2.7	3.0	3.0	2.7	2.7
68.5°	2.7	2.7	2.5	2.7	2.5	2.5	2.7	2.7	2.7	2.7	2.5
69°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.7	2.7	2.5	2.2
69.5°	2.5	2.5	2.2	2.2	2.2	2.2	2.5	2.5	2.5	2.2	2.2
70°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.0
70.5°	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.0	2.0
71°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.7
71.5°	2.0	1.7	1.7	1.7	1.7	1.7	1.7	2.0	2.0	1.7	1.7
72°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.5
72.5°	1.7	1.7	1.5	1.5	1.5	1.5	1.7	1.7	1.7	1.5	1.5
73°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
73.5°	1.5	1.5	1.5	1.5	1.2	1.5	1.5	1.5	1.5	1.5	1.2
74°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.2	1.2
74.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	1.2	1.2	1.0	1.2	1.0	1.2	1.2	1.2	1.2	1.2	1.0
75.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.0	1.0
76°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7
77°	1.0	0.7	0.7	1.0	0.7	0.7	1.0	1.0	1.0	0.7	0.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
78°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
78.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
79°	0.7	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5
79.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
81°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
81.5°	0.5	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2
82°	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
83°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
84°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
84.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2
85°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.2	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: P776056  
CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3000K

**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: P776056

CATALOG NUMBER: HCDJBLS1525CSD-HCD62TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6
0.5°	2792.7	2794.7	2794.7	2795.9	2797.9	2799.9
1°	2787.5	2790.5	2791.0	2793.2	2795.9	2799.4
1.5°	2780.8	2784.3	2785.5	2788.7	2793.2	2797.1
2°	2772.7	2777.6	2779.6	2783.8	2789.2	2794.7
2.5°	2763.5	2769.2	2771.7	2777.6	2784.5	2790.7
3°	2753.2	2759.8	2763.3	2770.0	2778.4	2785.8
3.5°	2741.6	2750.0	2753.7	2761.6	2771.0	2780.1
4°	2729.2	2737.6	2743.0	2751.7	2762.6	2772.9
4.5°	2715.4	2725.2	2730.9	2740.8	2753.2	2764.8
5°	2700.8	2711.2	2717.8	2728.7	2742.8	2755.6
5.5°	2684.5	2696.6	2703.5	2715.6	2731.4	2745.8
6°	2667.9	2681.0	2688.7	2701.5	2719.1	2734.1
6.5°	2649.9	2663.5	2672.6	2686.7	2705.2	2722.0
7°	2631.1	2645.4	2655.3	2670.6	2690.2	2708.0
7.5°	2611.3	2625.9	2636.5	2652.9	2673.9	2692.9
8°	2589.4	2605.4	2616.5	2634.3	2656.3	2676.8
8.5°	2566.4	2583.7	2596.0	2614.1	2638.0	2659.8
9°	2542.4	2560.0	2573.0	2592.8	2617.8	2641.2
9.5°	2516.7	2535.7	2549.3	2570.6	2597.0	2621.7
10°	2489.3	2508.6	2522.9	2546.9	2575.5	2601.2
10.5°	2459.6	2481.1	2496.5	2521.4	2551.8	2578.7
11°	2429.0	2452.5	2468.3	2493.7	2526.6	2555.5
11.5°	2398.6	2421.1	2439.9	2465.6	2499.4	2530.3
12°	2366.7	2390.2	2407.8	2436.9	2471.3	2503.1
12.5°	2334.1	2357.6	2376.1	2406.3	2442.3	2475.2
13°	2301.0	2325.0	2345.2	2375.6	2412.9	2446.3
13.5°	2267.2	2291.4	2312.6	2342.8	2381.3	2416.4
14°	2233.1	2258.3	2278.3	2309.7	2349.7	2385.3
14.5°	2197.7	2223.9	2244.2	2277.5	2316.8	2353.6
15°	2163.9	2188.6	2209.8	2243.2	2284.0	2320.8
15.5°	2128.3	2153.5	2175.7	2209.1	2250.4	2287.4
16°	2092.5	2118.2	2140.4	2173.3	2216.3	2254.1
16.5°	2057.2	2083.1	2105.6	2139.7	2182.2	2220.7
17°	2021.1	2047.8	2070.0	2104.8	2148.3	2187.1
17.5°	1985.7	2011.7	2034.4	2069.5	2113.5	2152.0
18°	1948.2	1975.4	1997.9	2033.2	2078.4	2117.4
18.5°	1913.4	1938.8	1962.0	1997.4	2043.3	2082.8
19°	1878.8	1903.7	1926.2	1963.5	2008.0	2047.8
19.5°	1844.2	1869.4	1892.1	1929.4	1973.9	2013.4
20°	1809.6	1834.8	1858.8	1894.6	1939.3	1978.3
20.5°	1775.2	1801.2	1824.9	1860.5	1905.4	1943.5
21°	1744.8	1766.3	1790.3	1826.1	1870.6	1909.4

TEST NUMBER: P776056

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1647.3	1668.3	1692.5	1728.8	1771.5	1809.3
23°	1615.4	1636.4	1659.9	1695.7	1738.9	1776.7
23.5°	1584.0	1604.8	1629.0	1664.8	1707.3	1744.8
24°	1553.9	1574.1	1598.1	1632.7	1675.9	1712.2
24.5°	1522.5	1543.5	1567.0	1602.5	1644.0	1681.4
25°	1493.1	1512.6	1536.6	1570.7	1613.4	1650.0
25.5°	1462.7	1483.2	1507.2	1541.3	1583.0	1619.1
26°	1433.3	1453.8	1477.8	1511.6	1553.1	1588.7
26.5°	1404.6	1425.1	1448.9	1482.5	1523.2	1559.0
27°	1375.7	1396.2	1419.7	1453.5	1493.8	1528.9
27.5°	1347.3	1368.3	1391.0	1424.6	1464.7	1499.3
28°	1320.1	1340.1	1363.1	1395.5	1436.0	1470.3
28.5°	1293.7	1313.0	1336.2	1368.3	1407.8	1441.4
29°	1268.0	1287.0	1310.0	1342.1	1380.7	1414.0
29.5°	1241.6	1261.3	1283.3	1315.4	1353.5	1387.1
30°	1216.4	1236.4	1258.4	1289.7	1327.8	1360.2
30.5°	1192.1	1211.7	1233.4	1264.0	1302.1	1334.0
31°	1168.4	1187.4	1209.7	1240.1	1276.9	1308.5
31.5°	1144.2	1163.5	1186.0	1216.1	1251.7	1282.8
32°	1119.7	1139.8	1161.5	1191.9	1227.7	1258.9
32.5°	1093.1	1116.0	1137.8	1168.4	1204.2	1234.9
33°	1063.2	1088.1	1111.1	1142.0	1180.5	1210.9
33.5°	1030.6	1057.2	1081.5	1113.1	1154.3	1185.7
34°	995.2	1024.6	1049.6	1082.4	1125.7	1160.8
34.5°	960.1	989.5	1014.7	1052.5	1096.5	1132.8
35°	925.8	954.2	979.4	1019.9	1065.9	1105.7
35.5°	891.2	916.9	944.1	988.1	1034.3	1075.5
36°	855.9	876.1	909.7	954.7	1001.4	1043.4
36.5°	819.1	841.5	888.0	920.6	968.0	1008.1
37°	782.5	807.4	851.7	886.8	933.9	969.8
37.5°	746.7	773.3	815.1	851.2	898.1	930.0
38°	709.4	739.0	778.5	815.6	860.6	891.4
38.5°	673.3	705.6	742.0	780.0	823.0	854.9
39°	638.7	671.6	707.6	744.4	785.5	818.3
39.5°	604.8	637.5	671.8	708.9	747.9	781.5
40°	570.7	603.4	636.2	673.8	710.1	744.9
40.5°	538.1	570.0	601.1	639.2	672.3	708.4
41°	505.5	537.1	566.5	604.6	634.5	673.5
41.5°	472.4	504.3	533.4	569.0	596.7	637.7
42°	440.0	474.1	501.3	535.7	561.6	603.6
42.5°	410.4	442.8	470.7	500.8	526.5	568.5
43°	380.0	414.8	440.0	466.7	494.2	534.7
43.5°	351.6	385.4	409.2	431.9	460.8	500.6



TEST NUMBER: P776056

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	273.8	301.7	320.0	336.5	370.1	407.2
45.5°	250.5	275.5	291.8	307.9	341.2	377.0
46°	229.8	249.5	264.6	280.2	314.0	348.9
46.5°	209.0	224.6	238.2	254.2	287.6	320.7
47°	188.3	201.6	213.5	229.8	262.1	293.5
47.5°	167.5	179.9	190.0	206.3	237.4	267.1
48°	150.0	158.9	168.0	184.3	214.0	242.4
48.5°	133.4	139.6	147.3	163.8	191.5	218.7
49°	117.4	122.1	127.7	145.0	170.0	196.2
49.5°	103.0	105.7	109.9	127.7	150.2	174.7
50°	89.9	90.4	94.1	111.2	131.4	153.4
50.5°	77.6	80.5	83.8	96.4	114.4	133.9
51°	66.5	70.4	73.4	82.8	98.8	115.4
51.5°	56.1	60.5	63.0	72.4	84.3	98.1
52°	47.2	50.7	52.6	62.3	73.4	82.0
52.5°	39.0	40.5	42.2	51.9	62.5	70.7
53°	31.9	33.8	35.6	41.8	51.9	59.3
53.5°	27.9	27.7	29.4	34.3	41.3	47.9
54°	24.2	22.7	24.2	27.7	33.1	36.8
54.5°	20.3	18.5	19.8	22.2	26.4	29.2
55°	16.3	15.3	16.1	17.8	21.0	23.2
55.5°	12.4	13.1	13.6	14.8	16.8	18.5
56°	11.4	11.9	12.4	13.1	14.6	15.6
56.5°	10.6	11.1	11.4	12.1	13.1	13.8
57°	9.9	10.4	10.6	11.4	12.1	12.8
57.5°	9.4	9.6	9.9	10.4	11.4	12.1
58°	8.6	9.1	9.4	9.6	10.6	11.1
58.5°	7.9	8.4	8.6	9.1	9.9	10.4
59°	7.4	7.9	8.2	8.4	9.1	9.6
59.5°	6.9	7.2	7.4	7.9	8.6	9.1
60°	6.4	6.7	6.9	7.2	7.9	8.4
60.5°	5.9	6.2	6.4	6.7	7.4	7.9
61°	5.7	5.9	5.9	6.2	6.7	7.2
61.5°	5.2	5.4	5.7	5.9	6.4	6.7
62°	4.9	5.2	5.2	5.4	5.9	6.2
62.5°	4.7	4.7	4.9	5.2	5.4	5.9
63°	4.4	4.4	4.7	4.7	5.2	5.4
63.5°	4.2	4.2	4.2	4.4	4.9	5.2
64°	4.0	4.0	4.0	4.2	4.7	4.9
64.5°	3.7	3.7	3.7	4.0	4.2	4.4
65°	3.5	3.5	3.5	3.7	4.0	4.2
65.5°	3.2	3.2	3.5	3.5	3.7	4.0
66°	3.0	3.2	3.2	3.2	3.5	3.7



TEST NUMBER: P776056

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.5	2.5	2.7	2.7	3.0	3.2
68°	2.5	2.5	2.5	2.5	2.7	3.0
68.5°	2.2	2.2	2.2	2.5	2.7	2.7
69°	2.0	2.2	2.2	2.2	2.5	2.5
69.5°	2.0	2.0	2.0	2.2	2.2	2.5
70°	1.7	2.0	2.0	2.0	2.2	2.2
70.5°	1.7	1.7	1.7	2.0	2.0	2.2
71°	1.7	1.7	1.7	1.7	2.0	2.0
71.5°	1.5	1.5	1.5	1.7	1.7	2.0
72°	1.5	1.5	1.5	1.5	1.7	1.7
72.5°	1.2	1.5	1.5	1.5	1.5	1.7
73°	1.2	1.2	1.2	1.5	1.5	1.5
73.5°	1.2	1.2	1.2	1.2	1.5	1.5
74°	1.2	1.2	1.2	1.2	1.2	1.2
74.5°	1.0	1.0	1.0	1.2	1.2	1.2
75°	1.0	1.0	1.0	1.0	1.0	1.2
75.5°	1.0	1.0	1.0	1.0	1.0	1.0
76°	0.7	1.0	1.0	1.0	1.0	1.0
76.5°	0.7	0.7	0.7	0.7	1.0	1.0
77°	0.7	0.7	0.7	0.7	0.7	1.0
77.5°	0.7	0.7	0.7	0.7	0.7	0.7
78°	0.7	0.7	0.7	0.7	0.7	0.7
78.5°	0.5	0.5	0.5	0.5	0.7	0.7
79°	0.5	0.5	0.5	0.5	0.5	0.7
79.5°	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5
80.5°	0.5	0.5	0.5	0.5	0.5	0.5
81°	0.2	0.5	0.5	0.5	0.5	0.5
81.5°	0.2	0.2	0.2	0.2	0.2	0.5
82°	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2
83°	0.2	0.2	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.2	0.2	0.2	0.2
84°	0.2	0.2	0.2	0.2	0.2	0.2
84.5°	0.2	0.2	0.2	0.2	0.0	0.2
85°	0.0	0.0	0.2	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: P776056

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3000K

**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°

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°	1876.0	1902.5	1915.3	1947.2	1913.8	1891.9	1865.4	1833.1	1800.7	1772.5	1752.0
22°	1842.0	1868.6	1880.2	1911.9	1881.0	1859.0	1832.8	1800.2	1767.8	1738.7	1718.7



44°	468.9	500.6	518.4	551.7	518.6	486.7	455.6	431.6	406.7	377.5	351.8
44.5°	438.3	468.5	483.5	517.1	486.2	455.4	424.7	399.0	376.5	348.4	324.9



66.5°	3.5	3.5	3.2	3.5	3.2	3.2	3.5	3.5	3.5	3.5	3.2
67°	3.2	3.2	3.2	3.2	3.0	3.2	3.2	3.2	3.5	3.2	3.0



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°	1712.5	1733.5	1757.9	1793.8	1837.5	1876.0
22°	1679.4	1700.4	1724.1	1760.2	1804.6	1842.0

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

Scaled Data Report



44°	323.9	356.8	378.8	399.3	429.2	468.9
44.5°	298.5	328.6	349.1	366.4	399.0	438.3



66.5°	2.7	3.0	3.0	3.2	3.5	3.5
67°	2.7	2.7	2.7	3.0	3.2	3.2

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)