

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: P775958

Luminaire Tested: HCDJBL51525CSD-HCD42TRH-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B050)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD42TRH-2500lm-4000K
Description: 4 INCH ROUND NARROW HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

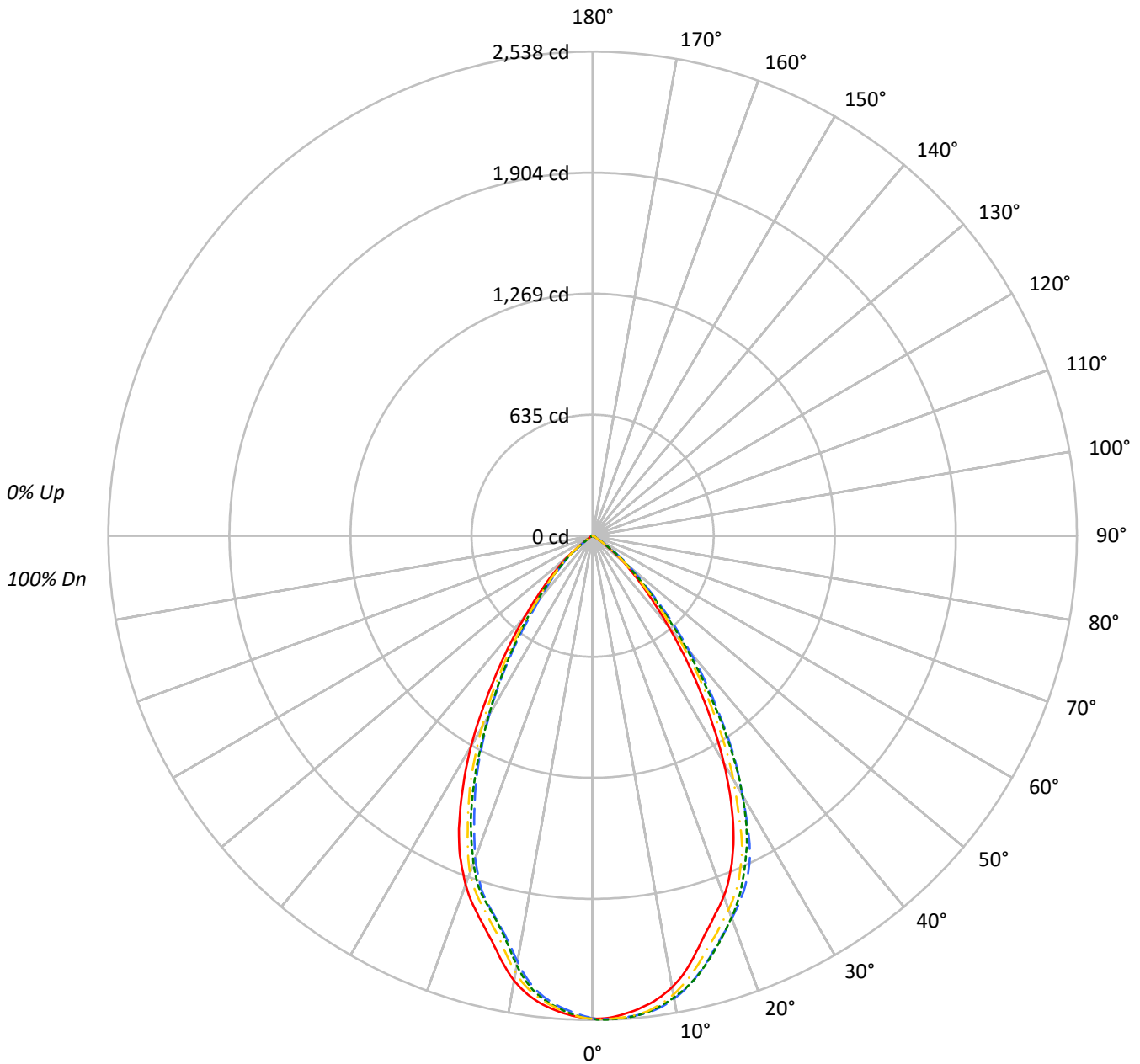
Lumens per Lamp: N/A
Luminaire Lumens: 2553.9 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.92
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 25
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: P775958
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P775958

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-4000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	318513	318513	318513	318513
5°	315750	319250	314247	311544
10°	306929	314009	302571	292271
15°	286962	301802	279640	266259
20°	269233	285264	260648	244376
25°	242685	262806	229521	205971
30°	199712	228223	185122	158485
35°	148487	177156	134430	114273
40°	101446	123542	90620	77723
45°	65158	77189	57772	49460
50°	39216	44698	33636	27234
55°	14942	17685	10598	8250
60°	5059	5940	4229	3398
65°	2412	2561	1965	1578
70°	1141	1325	920	846
75°	632	729	486	486
80°	362	362	217	217
85°	0	433	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 85875 cd/sqm



TEST NUMBER: P775958

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.5	9.2
10°-20°	611.2	23.9
20°-30°	766.8	30.0
30°-40°	585.6	22.9
40°-50°	279.1	10.9
50°-60°	66.8	2.6
60°-70°	8.3	0.3
70°-80°	1.5	0.1
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°	1612.5	63.1
0°-40°	2198.1	86.1
0°-60°	2543.9	99.6
0°-90°	2553.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2553.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2531	2531	2531	2531	2531	
5°	2499	2527	2488	2466	2499	236
15°	2202	2316	2146	2044	2202	619
25°	1748	1893	1653	1483	1748	790
35°	966	1153	875	744	966	604
45°	366	434	325	278	366	290
55°	68	81	48	38	68	73
65°	8	9	7	5	8	9
75°	1	2	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P775958

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9
0.5°	2531.7	2531.2	2530.9	2530.4	2535.8	2535.3	2534.2	2532.5	2529.7	2525.3	2523.3
1°	2531.4	2532.7	2533.5	2533.0	2537.0	2536.8	2534.8	2532.0	2527.4	2521.3	2518.7
1.5°	2529.9	2532.7	2534.2	2534.8	2537.5	2537.0	2534.5	2530.9	2525.1	2515.9	2512.1
2°	2527.4	2532.5	2534.8	2535.8	2537.3	2537.0	2534.0	2529.4	2521.0	2510.3	2505.3
2.5°	2524.3	2530.9	2534.2	2535.8	2536.5	2536.3	2533.0	2527.4	2517.0	2504.0	2498.4
3°	2520.3	2528.6	2533.0	2535.5	2535.8	2535.5	2531.4	2524.8	2512.1	2497.4	2490.8
3.5°	2515.7	2526.9	2531.4	2534.5	2534.2	2534.2	2529.9	2522.0	2507.0	2490.0	2482.6
4°	2510.6	2523.8	2529.4	2533.5	2532.5	2533.0	2528.4	2518.7	2500.9	2482.6	2474.0
4.5°	2505.0	2520.3	2527.6	2531.4	2530.4	2530.9	2526.1	2514.9	2494.8	2474.2	2465.1
5°	2499.4	2516.4	2525.6	2529.7	2527.1	2528.4	2523.3	2510.1	2487.5	2465.4	2454.7
5.5°	2492.8	2512.6	2522.8	2527.6	2524.1	2525.3	2519.8	2504.5	2480.1	2455.9	2443.5
6°	2485.4	2508.1	2520.0	2525.1	2519.2	2521.3	2515.2	2498.7	2471.7	2445.5	2431.5
6.5°	2477.6	2503.0	2516.4	2521.3	2514.4	2515.9	2509.6	2491.5	2462.6	2433.8	2417.3
7°	2469.4	2497.4	2512.1	2517.2	2508.6	2510.1	2503.2	2483.7	2452.4	2420.9	2401.8
7.5°	2460.8	2490.5	2507.0	2512.4	2501.4	2502.7	2494.8	2474.2	2441.5	2405.9	2384.5
8°	2450.6	2482.6	2500.7	2506.5	2493.8	2494.6	2486.2	2464.3	2429.5	2389.8	2364.4
8.5°	2439.9	2473.7	2492.8	2499.4	2485.2	2485.7	2476.0	2453.7	2415.8	2371.8	2343.3
9°	2428.0	2464.1	2484.2	2491.3	2476.8	2475.3	2465.4	2442.0	2401.3	2352.0	2319.2
9.5°	2415.5	2453.7	2474.5	2482.6	2466.9	2465.4	2453.4	2429.5	2385.0	2329.9	2294.0
10°	2401.8	2442.0	2463.8	2473.0	2457.2	2453.7	2440.9	2415.3	2367.7	2306.0	2265.8
10.5°	2386.5	2429.3	2452.4	2463.1	2446.5	2442.0	2427.5	2400.3	2348.7	2280.3	2239.1
11°	2370.5	2416.3	2439.7	2452.1	2435.4	2429.3	2413.0	2383.5	2327.1	2254.6	2211.4
11.5°	2353.0	2402.1	2427.2	2440.7	2423.9	2415.8	2397.0	2366.2	2304.7	2228.4	2183.9
12°	2334.2	2386.8	2413.2	2429.3	2410.9	2401.8	2380.7	2347.9	2281.3	2202.2	2159.3
12.5°	2314.1	2370.0	2398.2	2416.0	2397.5	2386.0	2363.7	2328.1	2257.7	2178.6	2136.4
13°	2292.2	2352.5	2382.5	2402.8	2383.7	2370.5	2345.1	2307.2	2233.5	2156.0	2115.0
13.5°	2269.6	2333.9	2365.7	2388.3	2368.8	2353.2	2326.3	2286.1	2210.4	2133.9	2095.5
14°	2247.5	2315.1	2348.7	2373.6	2352.7	2335.7	2307.0	2264.3	2187.5	2113.0	2075.9
14.5°	2225.4	2295.3	2331.1	2358.1	2334.7	2317.1	2287.1	2242.2	2166.7	2093.7	2056.6
15°	2202.5	2274.2	2313.1	2340.8	2316.4	2298.6	2267.1	2221.3	2146.3	2073.9	2037.5
15.5°	2181.1	2254.1	2294.5	2324.3	2298.8	2279.8	2247.2	2201.0	2126.7	2055.3	2019.7
16°	2160.3	2233.8	2274.2	2305.7	2280.3	2261.5	2229.2	2181.1	2106.9	2036.5	2001.4
16.5°	2141.5	2213.9	2255.4	2287.9	2262.7	2242.7	2211.1	2161.8	2088.1	2018.2	1982.6
17°	2121.9	2194.1	2237.8	2269.6	2243.9	2224.9	2193.3	2142.2	2069.3	1999.6	1962.8
17.5°	2102.8	2175.8	2220.3	2251.8	2225.1	2206.6	2174.8	2123.4	2050.7	1979.6	1941.7
18°	2084.0	2157.8	2202.7	2234.0	2206.3	2187.8	2156.2	2105.1	2032.4	1958.2	1913.7
18.5°	2066.0	2139.5	2186.0	2216.0	2186.5	2169.7	2138.2	2086.8	2012.6	1931.3	1885.7
19°	2048.2	2122.2	2169.2	2198.2	2167.7	2151.1	2120.4	2069.0	1991.5	1904.6	1857.8
19.5°	2029.6	2104.1	2151.4	2179.4	2148.3	2133.6	2102.6	2050.7	1969.1	1877.6	1829.8
20°	2010.3	2086.8	2134.1	2161.3	2130.0	2115.0	2084.5	2031.7	1946.2	1850.7	1799.8
20.5°	1989.7	2069.5	2117.1	2143.5	2110.7	2096.0	2065.7	2011.6	1920.3	1823.7	1765.5
21°	1967.1	2052.0	2099.8	2125.0	2089.4	2076.9	2046.9	1990.0	1894.4	1790.2	1727.6



TEST NUMBER: P775958

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1892.4	1992.5	2044.6	2067.3	2022.8	2011.1	1983.9	1917.3	1816.6	1684.9	1622.6
23°	1865.4	1970.9	2024.5	2045.1	1998.1	1988.7	1961.8	1890.3	1786.9	1652.4	1587.0
23.5°	1836.9	1948.0	2004.5	2023.3	1972.2	1962.8	1933.5	1863.4	1755.1	1620.3	1553.5
24°	1808.0	1922.9	1982.6	2000.1	1946.5	1935.3	1905.1	1836.4	1722.3	1587.6	1519.9
24.5°	1778.7	1896.4	1959.5	1974.5	1919.6	1907.6	1876.8	1811.0	1688.7	1556.3	1486.1
25°	1747.7	1868.5	1934.8	1949.3	1892.6	1880.2	1848.6	1779.7	1652.9	1523.7	1451.3
25.5°	1714.9	1839.2	1907.1	1921.3	1865.4	1852.4	1820.2	1747.7	1616.0	1489.2	1415.5
26°	1680.3	1808.5	1878.6	1892.9	1838.5	1825.0	1782.8	1713.9	1578.4	1453.6	1378.8
26.5°	1644.2	1775.9	1845.8	1864.1	1811.3	1792.5	1744.4	1677.5	1541.3	1416.2	1341.7
27°	1607.6	1742.4	1811.8	1834.9	1781.0	1758.9	1703.2	1638.7	1504.9	1376.6	1303.1
27.5°	1570.3	1706.8	1773.9	1805.7	1749.0	1724.6	1663.3	1600.3	1466.6	1337.2	1265.5
28°	1531.4	1669.4	1733.2	1772.6	1715.7	1689.0	1623.7	1559.6	1429.4	1297.5	1227.8
28.5°	1492.5	1629.0	1692.8	1739.6	1679.3	1651.6	1585.5	1516.9	1391.6	1258.4	1191.2
29°	1452.3	1587.3	1650.9	1705.3	1645.3	1611.7	1548.2	1474.9	1353.7	1218.9	1153.6
29.5°	1414.2	1544.8	1610.2	1669.4	1607.1	1572.6	1511.0	1434.3	1314.3	1181.6	1117.0
30°	1374.3	1502.6	1570.8	1631.3	1570.5	1531.1	1473.7	1392.1	1273.9	1145.0	1081.4
30.5°	1333.3	1460.4	1533.2	1591.6	1532.4	1489.2	1436.3	1351.1	1233.9	1107.9	1045.6
31°	1292.9	1419.8	1496.3	1552.0	1495.3	1449.5	1398.2	1309.4	1193.5	1071.8	1008.7
31.5°	1251.7	1378.8	1459.2	1509.0	1454.6	1409.1	1358.3	1269.3	1152.3	1034.6	971.9
32°	1210.6	1338.9	1421.6	1468.3	1414.9	1370.7	1318.1	1228.6	1110.4	996.5	934.7
32.5°	1169.6	1298.5	1382.7	1426.4	1371.5	1331.1	1277.2	1188.4	1068.2	958.1	898.1
33°	1128.4	1258.6	1343.5	1385.5	1328.8	1291.4	1235.5	1148.8	1028.3	919.7	861.5
33.5°	1088.5	1217.9	1301.6	1345.0	1284.3	1252.5	1194.3	1109.4	987.6	881.1	824.7
34°	1046.8	1177.0	1260.4	1304.9	1241.1	1212.8	1153.9	1070.0	948.7	842.0	789.3
34.5°	1006.7	1135.6	1218.7	1264.5	1197.1	1172.2	1114.0	1031.1	911.1	805.3	754.8
35°	966.5	1095.1	1176.5	1224.3	1153.1	1131.2	1075.3	994.0	875.0	768.7	721.5
35.5°	926.9	1055.2	1136.1	1183.9	1110.4	1090.1	1037.4	956.9	837.9	733.9	687.6
36°	890.8	1016.3	1097.4	1143.2	1068.2	1049.6	999.6	920.0	802.8	699.1	654.6
36.5°	854.4	978.7	1059.6	1101.2	1024.5	1009.0	960.9	884.4	767.7	666.3	622.8
37°	818.1	941.3	1020.7	1062.4	983.0	968.3	922.8	848.8	734.2	634.8	590.8
37.5°	782.0	900.4	983.3	1020.7	942.4	929.1	883.1	814.5	700.9	603.8	561.0
38°	745.6	866.9	945.2	980.8	904.0	891.0	844.7	778.9	670.1	573.5	531.3
38.5°	711.3	833.1	905.5	939.3	862.8	852.4	807.4	744.1	637.6	543.8	503.3
39°	679.0	799.5	868.1	902.2	825.9	814.5	770.8	709.8	608.1	515.8	477.4
39.5°	647.7	765.9	830.8	863.6	789.1	775.9	735.2	677.0	579.1	489.4	454.0
40°	617.5	731.4	793.1	825.2	752.0	738.0	699.8	643.4	551.6	464.7	431.4
40.5°	587.0	698.1	755.8	786.8	714.8	701.1	666.5	611.1	523.7	441.3	409.8
41°	558.3	663.7	719.4	748.4	680.5	665.3	634.8	580.6	497.7	420.0	390.5
41.5°	530.8	631.5	685.9	712.3	645.4	629.4	603.0	551.6	473.1	399.1	372.9
42°	504.1	598.9	652.6	676.7	613.4	594.6	571.0	522.7	449.4	380.8	355.1
42.5°	478.7	568.2	620.0	642.1	580.6	561.8	540.2	495.7	426.1	362.0	338.1
43°	454.8	538.9	588.8	607.6	549.4	530.0	509.9	469.3	403.9	344.5	321.8
43.5°	430.6	510.5	557.2	574.5	518.8	500.3	480.5	444.1	383.1	327.4	305.6



TEST NUMBER: P775958

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	366.1	431.4	466.7	482.5	433.7	417.9	398.9	374.5	324.6	279.6	260.6
45.5°	346.2	407.2	438.5	455.0	407.8	393.5	375.5	353.1	306.8	264.6	246.3
46°	326.7	383.9	411.6	428.1	382.1	370.4	352.8	333.0	289.5	249.9	233.6
46.5°	308.4	362.8	388.2	403.4	358.7	348.3	332.0	313.7	273.0	235.9	220.9
47°	290.8	341.9	365.6	379.3	335.8	326.9	312.2	294.9	256.5	222.7	207.9
47.5°	274.0	322.1	343.7	356.7	315.2	307.1	293.9	277.1	241.8	209.7	195.2
48°	257.8	303.0	323.4	335.3	295.4	288.3	276.1	260.3	227.8	196.5	182.5
48.5°	241.8	285.0	304.5	314.5	276.3	270.2	259.3	244.3	214.0	183.5	168.3
49°	227.0	267.4	286.2	295.9	259.0	253.2	243.3	230.1	200.1	168.5	152.5
49.5°	214.0	250.9	269.0	276.8	242.3	239.0	229.3	215.8	186.1	152.3	136.5
50°	200.3	235.4	252.2	260.1	228.3	224.7	215.3	201.8	171.8	136.3	120.5
50.5°	187.4	220.9	236.4	242.5	214.3	210.2	201.1	187.6	155.1	120.2	106.3
51°	173.6	206.7	221.7	227.5	200.1	196.0	187.1	173.4	138.3	105.2	92.5
51.5°	158.4	193.2	207.7	213.0	186.1	181.8	172.9	157.1	122.0	91.8	80.3
52°	142.1	179.2	193.5	199.0	171.8	167.3	156.3	140.3	106.8	80.3	70.4
52.5°	126.3	164.0	179.2	185.8	156.3	151.3	139.3	123.5	93.0	70.2	61.8
53°	110.6	147.2	163.7	171.1	139.6	134.2	122.5	108.0	81.1	61.8	54.4
53.5°	96.3	130.7	146.7	155.6	123.5	117.7	107.3	93.8	70.9	54.4	48.0
54°	86.9	114.4	129.1	138.3	107.5	102.7	92.8	81.9	62.3	48.3	42.7
54.5°	77.5	99.9	112.9	122.0	93.0	89.0	80.3	71.4	54.9	42.7	38.1
55°	68.1	86.4	98.4	105.5	80.6	77.0	69.9	62.5	48.3	38.1	34.1
55.5°	58.7	77.8	86.2	92.0	69.7	66.9	61.3	54.7	43.0	34.1	30.5
56°	49.6	68.9	77.0	82.9	60.5	58.0	53.6	48.3	38.1	30.5	27.5
56.5°	43.7	60.0	68.1	73.7	52.9	51.1	47.3	42.7	34.1	27.5	24.7
57°	38.6	51.4	59.2	64.6	46.5	45.0	41.7	37.9	30.5	24.9	22.6
57.5°	34.6	45.5	50.3	55.7	40.9	39.7	37.1	33.8	27.5	22.9	20.8
58°	30.8	40.4	44.5	46.5	36.4	35.3	33.0	30.3	24.7	20.8	18.8
58.5°	27.7	35.8	39.4	40.9	32.3	31.5	29.5	26.9	22.6	18.8	17.0
59°	24.9	32.0	35.1	36.4	28.7	28.0	26.4	24.4	20.8	17.0	15.0
59.5°	22.4	28.7	31.3	32.3	25.7	25.2	24.4	22.4	18.8	15.0	13.7
60°	20.1	25.7	28.0	28.7	23.6	23.1	22.4	20.6	16.8	13.7	12.5
60.5°	18.3	23.1	25.2	25.7	21.6	21.1	20.3	18.6	15.0	12.5	11.2
61°	16.5	20.8	22.6	23.1	19.6	19.1	18.3	16.5	13.5	11.2	10.4
61.5°	15.0	18.8	20.3	20.8	17.5	17.0	16.3	14.7	12.2	10.4	9.4
62°	13.5	17.0	18.3	18.8	15.3	15.0	14.2	13.2	11.2	9.4	8.6
62.5°	12.5	15.5	16.8	17.0	14.0	13.7	13.0	12.2	10.2	8.6	7.9
63°	11.2	14.0	15.3	15.5	12.7	12.5	11.7	10.9	9.4	7.9	7.1
63.5°	10.2	12.7	13.7	14.0	11.4	11.2	10.7	9.9	8.4	7.1	6.6
64°	9.4	11.7	12.5	12.7	10.4	10.2	9.7	9.2	7.9	6.6	6.1
64.5°	8.6	10.7	11.4	11.4	9.4	9.4	8.9	8.4	7.1	6.1	5.6
65°	8.1	9.7	10.4	10.4	8.6	8.6	8.1	7.6	6.6	5.6	5.1
65.5°	7.4	8.9	9.4	9.7	7.9	7.9	7.4	6.9	6.1	5.1	4.6
66°	6.6	8.1	8.6	8.9	7.4	7.1	6.9	6.4	5.3	4.6	4.3



TEST NUMBER: P775958

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	5.1	6.1	6.6	6.6	5.6	5.6	5.1	4.8	4.1	3.6	3.3
68°	4.6	5.6	6.1	6.1	5.1	5.1	4.8	4.6	3.8	3.3	3.1
68.5°	4.1	5.1	5.6	5.6	4.6	4.6	4.3	4.1	3.6	3.1	2.8
69°	3.8	4.8	5.1	5.1	4.3	4.3	4.1	3.8	3.3	2.8	2.5
69.5°	3.6	4.3	4.6	4.8	4.1	3.8	3.6	3.6	2.8	2.5	2.3
70°	3.1	4.1	4.3	4.3	3.6	3.6	3.3	3.1	2.5	2.3	2.0
70.5°	2.8	3.6	3.8	4.1	3.3	3.3	3.1	2.8	2.5	2.0	2.0
71°	2.5	3.3	3.6	3.6	3.1	3.1	2.8	2.5	2.3	2.0	1.8
71.5°	2.3	3.1	3.3	3.3	2.8	2.8	2.5	2.5	2.0	1.8	1.8
72°	2.3	2.8	3.1	3.1	2.5	2.5	2.3	2.3	1.8	1.5	1.5
72.5°	2.0	2.5	2.8	2.8	2.3	2.3	2.3	2.0	1.8	1.5	1.3
73°	1.8	2.3	2.5	2.5	2.3	2.0	2.0	1.8	1.5	1.3	1.3
73.5°	1.8	2.0	2.3	2.3	2.0	2.0	1.8	1.8	1.3	1.3	1.3
74°	1.5	2.0	2.0	2.3	1.8	1.8	1.8	1.5	1.3	1.0	1.0
74.5°	1.3	1.8	2.0	2.0	1.8	1.5	1.5	1.5	1.3	1.0	1.0
75°	1.3	1.5	1.8	1.8	1.5	1.5	1.5	1.3	1.0	0.8	0.8
75.5°	1.0	1.5	1.5	1.8	1.5	1.3	1.3	1.3	1.0	0.8	0.8
76°	1.0	1.3	1.5	1.5	1.3	1.3	1.3	1.0	0.8	0.8	0.8
76.5°	1.0	1.3	1.3	1.5	1.3	1.3	1.0	1.0	0.8	0.5	0.5
77°	0.8	1.0	1.3	1.3	1.0	1.0	1.0	0.8	0.8	0.5	0.5
77.5°	0.8	1.0	1.0	1.3	1.0	1.0	0.8	0.8	0.5	0.5	0.5
78°	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.5	0.5	0.5
78.5°	0.5	0.8	1.0	1.0	0.8	0.8	0.8	0.5	0.5	0.5	0.5
79°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.3	0.3
79.5°	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.3	0.3
80°	0.5	0.5	0.8	0.8	0.5	0.5	0.5	0.5	0.3	0.3	0.3
80.5°	0.3	0.5	0.5	0.8	0.5	0.5	0.5	0.5	0.3	0.3	0.3
81°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
81.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
82°	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.0	0.3
82.5°	0.3	0.3	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.0	0.0
83°	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.0	0.0	0.0
83.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
84°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
84.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.3	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: P775958

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P775958

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2530.9	2530.9	2530.9	2530.9	2530.9	2530.9
0.5°	2521.8	2530.7	2530.9	2530.7	2530.4	2531.7
1°	2515.9	2526.9	2527.4	2527.6	2527.9	2531.4
1.5°	2509.3	2522.0	2522.3	2523.3	2524.8	2529.9
2°	2502.2	2515.9	2517.0	2518.0	2520.3	2527.4
2.5°	2494.3	2509.3	2510.1	2511.9	2514.7	2524.3
3°	2485.7	2501.7	2503.0	2505.0	2508.8	2520.3
3.5°	2477.0	2493.8	2495.1	2497.6	2502.5	2515.7
4°	2467.4	2485.2	2486.5	2489.8	2495.3	2510.6
4.5°	2457.7	2476.0	2477.0	2481.1	2487.7	2505.0
5°	2446.0	2466.1	2467.9	2472.2	2480.1	2499.4
5.5°	2433.6	2455.4	2457.5	2462.8	2471.7	2492.8
6°	2420.1	2444.0	2446.5	2452.6	2462.6	2485.4
6.5°	2403.3	2431.0	2433.6	2441.5	2452.6	2477.6
7°	2386.3	2416.3	2420.1	2429.5	2442.2	2469.4
7.5°	2365.2	2400.5	2404.6	2416.5	2431.3	2460.8
8°	2344.3	2381.5	2388.1	2401.8	2418.6	2450.6
8.5°	2319.4	2361.1	2369.0	2385.3	2404.6	2439.9
9°	2293.8	2338.5	2347.9	2367.2	2389.8	2428.0
9.5°	2265.5	2313.8	2324.3	2347.1	2373.6	2415.5
10°	2237.3	2287.1	2299.4	2324.8	2355.8	2401.8
10.5°	2209.1	2258.7	2272.7	2300.6	2335.2	2386.5
11°	2181.7	2230.0	2245.2	2275.2	2313.6	2370.5
11.5°	2154.2	2201.0	2215.7	2248.3	2290.7	2353.0
12°	2132.3	2173.5	2189.0	2221.1	2265.8	2334.2
12.5°	2110.7	2148.1	2162.1	2193.9	2239.9	2314.1
13°	2090.4	2124.5	2138.9	2169.7	2215.2	2292.2
13.5°	2071.1	2102.6	2117.3	2145.8	2191.1	2269.6
14°	2051.2	2082.0	2096.7	2124.7	2167.7	2247.5
14.5°	2034.5	2063.2	2077.9	2104.9	2145.8	2225.4
15°	2015.4	2043.6	2058.9	2085.0	2125.0	2202.5
15.5°	1998.6	2025.6	2040.6	2065.7	2105.1	2181.1
16°	1981.6	2008.5	2022.0	2046.7	2085.0	2160.3
16.5°	1962.3	1991.0	2004.7	2028.6	2065.5	2141.5
17°	1941.7	1974.5	1986.9	2010.1	2047.9	2121.9
17.5°	1914.7	1955.9	1969.1	1991.8	2029.1	2102.8
18°	1888.0	1934.3	1948.3	1973.5	2010.8	2084.0
18.5°	1861.3	1910.2	1925.7	1952.4	1991.5	2066.0
19°	1834.7	1884.0	1902.0	1930.5	1971.4	2048.2
19.5°	1807.7	1855.2	1875.3	1904.8	1949.3	2029.6
20°	1775.2	1824.7	1846.3	1878.1	1925.9	2010.3
20.5°	1740.1	1793.2	1816.6	1848.9	1900.2	1989.7
21°	1705.5	1761.9	1784.1	1817.1	1872.5	1967.1



TEST NUMBER: P775958

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1599.0	1667.4	1680.3	1712.1	1778.2	1892.4
23°	1561.6	1633.8	1643.5	1675.8	1744.9	1865.4
23.5°	1527.1	1599.0	1606.9	1640.9	1710.3	1836.9
24°	1487.9	1561.4	1571.0	1605.6	1676.5	1808.0
24.5°	1452.3	1524.3	1533.2	1570.0	1641.7	1778.7
25°	1414.7	1483.3	1496.5	1536.0	1608.9	1747.7
25.5°	1377.8	1444.9	1459.9	1500.4	1575.1	1714.9
26°	1340.5	1406.0	1422.3	1465.3	1541.8	1680.3
26.5°	1304.1	1367.2	1386.2	1428.4	1507.5	1644.2
27°	1266.2	1326.0	1347.6	1391.3	1471.4	1607.6
27.5°	1229.6	1286.6	1309.7	1353.7	1435.0	1570.3
28°	1191.7	1246.7	1271.6	1312.8	1397.4	1531.4
28.5°	1154.1	1206.2	1234.2	1276.1	1358.8	1492.5
29°	1114.5	1167.3	1195.6	1237.3	1319.9	1452.3
29.5°	1075.1	1128.2	1158.2	1199.6	1278.7	1414.2
30°	1037.4	1090.6	1120.3	1163.0	1239.5	1374.3
30.5°	998.3	1053.5	1081.2	1125.4	1198.9	1333.3
31°	961.9	1017.6	1042.8	1088.5	1158.7	1292.9
31.5°	925.6	981.8	1004.1	1051.7	1118.8	1251.7
32°	890.5	946.9	967.0	1014.8	1080.4	1210.6
32.5°	856.4	910.6	930.2	978.0	1042.5	1169.6
33°	821.6	877.0	895.8	940.1	1004.1	1128.4
33.5°	788.8	843.5	861.3	899.7	966.0	1088.5
34°	755.3	809.9	826.7	864.8	927.9	1046.8
34.5°	723.5	776.4	792.1	830.0	890.3	1006.7
35°	692.2	743.8	757.8	795.2	852.6	966.5
35.5°	661.2	713.8	725.0	760.3	815.0	926.9
36°	631.5	683.8	693.5	726.0	777.4	890.8
36.5°	603.2	656.1	662.2	692.2	740.0	854.4
37°	575.5	626.9	632.5	658.4	704.4	818.1
37.5°	549.4	599.2	603.0	625.1	670.6	782.0
38°	523.4	572.0	575.0	592.8	637.6	745.6
38.5°	498.3	545.5	547.8	561.3	607.1	711.3
39°	474.9	521.4	521.4	530.3	577.3	679.0
39.5°	450.7	496.0	496.7	501.8	548.1	647.7
40°	428.9	473.1	471.8	474.4	519.6	617.5
40.5°	407.0	449.7	448.4	449.4	492.2	587.0
41°	386.4	428.1	425.6	425.8	466.7	558.3
41.5°	367.3	406.2	403.7	404.7	442.3	530.8
42°	348.5	386.1	383.4	384.6	420.0	504.1
42.5°	331.0	366.3	363.8	366.1	397.8	478.7
43°	312.9	347.3	345.0	348.3	377.5	454.8
43.5°	296.7	329.0	327.2	331.7	358.2	430.6



TEST NUMBER: P775958

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	250.1	277.9	277.6	284.2	306.3	366.1
45.5°	236.4	261.8	262.1	269.7	290.3	346.2
46°	223.7	246.6	247.3	255.0	274.8	326.7
46.5°	211.0	232.4	233.4	241.0	259.8	308.4
47°	198.3	219.1	220.4	227.8	245.3	290.8
47.5°	185.3	206.7	207.7	215.1	231.1	274.0
48°	173.1	194.0	195.5	202.9	217.9	257.8
48.5°	158.1	182.0	183.8	190.9	205.4	241.8
49°	142.4	168.8	171.1	179.0	192.9	227.0
49.5°	126.3	154.6	157.4	166.3	180.5	214.0
50°	111.1	139.1	142.4	152.0	167.5	200.3
50.5°	97.1	123.0	127.1	136.8	152.5	187.4
51°	83.9	107.5	111.6	121.8	137.0	173.6
51.5°	73.2	93.8	97.4	106.8	121.8	158.4
52°	63.8	84.4	88.0	93.0	106.5	142.1
52.5°	56.2	75.2	78.3	83.9	92.8	126.3
53°	49.3	66.3	68.6	74.7	83.9	110.6
53.5°	43.7	57.2	59.2	65.8	74.7	96.3
54°	38.9	48.0	49.6	56.7	65.6	86.9
54.5°	34.8	42.2	43.7	47.5	56.4	77.5
55°	31.0	37.6	38.9	42.2	47.5	68.1
55.5°	28.0	33.6	34.6	37.4	41.9	58.7
56°	25.2	30.0	31.0	33.3	37.4	49.6
56.5°	23.1	26.9	27.7	29.7	33.3	43.7
57°	21.1	24.4	24.9	26.7	29.7	38.6
57.5°	19.1	21.9	22.4	23.9	26.7	34.6
58°	17.0	19.8	20.3	21.6	23.9	30.8
58.5°	15.3	17.8	18.3	19.6	21.6	27.7
59°	13.7	16.3	16.5	17.8	19.6	24.9
59.5°	12.5	14.7	15.0	16.0	17.5	22.4
60°	11.4	13.5	13.7	14.5	16.0	20.1
60.5°	10.4	12.2	12.5	13.2	14.5	18.3
61°	9.4	10.9	11.2	11.9	13.2	16.5
61.5°	8.6	10.2	10.4	10.9	11.9	15.0
62°	7.9	9.4	9.7	9.9	10.9	13.5
62.5°	7.1	8.6	8.9	9.2	9.9	12.5
63°	6.6	7.9	8.1	8.4	9.2	11.2
63.5°	6.1	7.1	7.4	7.6	8.4	10.2
64°	5.6	6.4	6.6	6.9	7.6	9.4
64.5°	5.1	5.8	6.1	6.4	6.9	8.6
65°	4.6	5.3	5.6	5.8	6.4	8.1
65.5°	4.3	5.1	5.1	5.3	5.8	7.4
66°	3.8	4.6	4.6	4.8	5.3	6.6



TEST NUMBER: P775958

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	3.1	3.6	3.6	3.8	4.1	5.1
68°	2.8	3.3	3.3	3.6	3.8	4.6
68.5°	2.5	3.1	3.1	3.3	3.6	4.1
69°	2.3	2.8	2.8	2.8	3.1	3.8
69.5°	2.0	2.5	2.5	2.8	2.8	3.6
70°	2.0	2.3	2.3	2.5	2.5	3.1
70.5°	1.8	2.0	2.0	2.3	2.3	2.8
71°	1.8	2.0	2.0	2.0	2.3	2.5
71.5°	1.5	1.8	1.8	1.8	2.0	2.3
72°	1.3	1.5	1.5	1.8	1.8	2.3
72.5°	1.3	1.5	1.5	1.5	1.8	2.0
73°	1.3	1.3	1.3	1.5	1.5	1.8
73.5°	1.0	1.3	1.3	1.3	1.3	1.8
74°	1.0	1.0	1.0	1.3	1.3	1.5
74.5°	0.8	1.0	1.0	1.0	1.0	1.3
75°	0.8	1.0	1.0	1.0	1.0	1.3
75.5°	0.8	0.8	0.8	1.0	1.0	1.0
76°	0.8	0.8	0.8	0.8	0.8	1.0
76.5°	0.5	0.8	0.8	0.8	0.8	1.0
77°	0.5	0.5	0.8	0.8	0.8	0.8
77.5°	0.5	0.5	0.5	0.5	0.5	0.8
78°	0.5	0.5	0.5	0.5	0.5	0.8
78.5°	0.5	0.5	0.5	0.5	0.5	0.5
79°	0.3	0.5	0.5	0.5	0.5	0.5
79.5°	0.3	0.3	0.3	0.3	0.3	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.5
80.5°	0.3	0.3	0.3	0.3	0.3	0.3
81°	0.3	0.3	0.3	0.3	0.3	0.3
81.5°	0.3	0.3	0.3	0.3	0.3	0.3
82°	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.0	0.3	0.3	0.3	0.3	0.3
83°	0.0	0.3	0.3	0.3	0.0	0.3
83.5°	0.0	0.0	0.0	0.0	0.0	0.3
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: P775958

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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°	1943.2	2033.2	2082.3	2106.4	2068.5	2055.6	2026.8	1966.8	1868.5	1754.8	1691.8
22°	1918.5	2013.4	2063.4	2087.3	2045.6	2034.5	2006.0	1944.2	1842.5	1719.0	1657.2



44°	408.0	482.5	525.7	543.0	490.1	471.6	451.5	419.5	363.0	311.4	290.3
44.5°	386.7	456.3	496.0	512.2	461.6	443.9	424.8	396.8	343.4	295.1	275.3



66.5°	5.8	7.4	8.1	8.1	6.6	6.6	6.1	5.8	5.1	4.3	3.8
67°	5.3	6.6	7.4	7.4	6.1	5.8	5.6	5.3	4.6	3.8	3.6



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



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

Scaled Data Report



21.5°	1670.4	1730.7	1750.5	1782.8	1842.8	1943.2
22°	1635.9	1698.9	1715.7	1746.9	1811.0	1918.5



44°	280.9	311.2	309.9	315.0	339.9	408.0
44.5°	265.4	294.1	293.4	299.7	323.1	386.7



66.5°	3.6	4.1	4.3	4.6	4.8	5.8
67°	3.3	3.8	3.8	4.1	4.6	5.3

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)