

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: P776179

Luminaire Tested: HCDJBL51525CSD-HCD8TRC-2500lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776179
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-HCD8TRC-2500lm-5000K
Description: 8 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

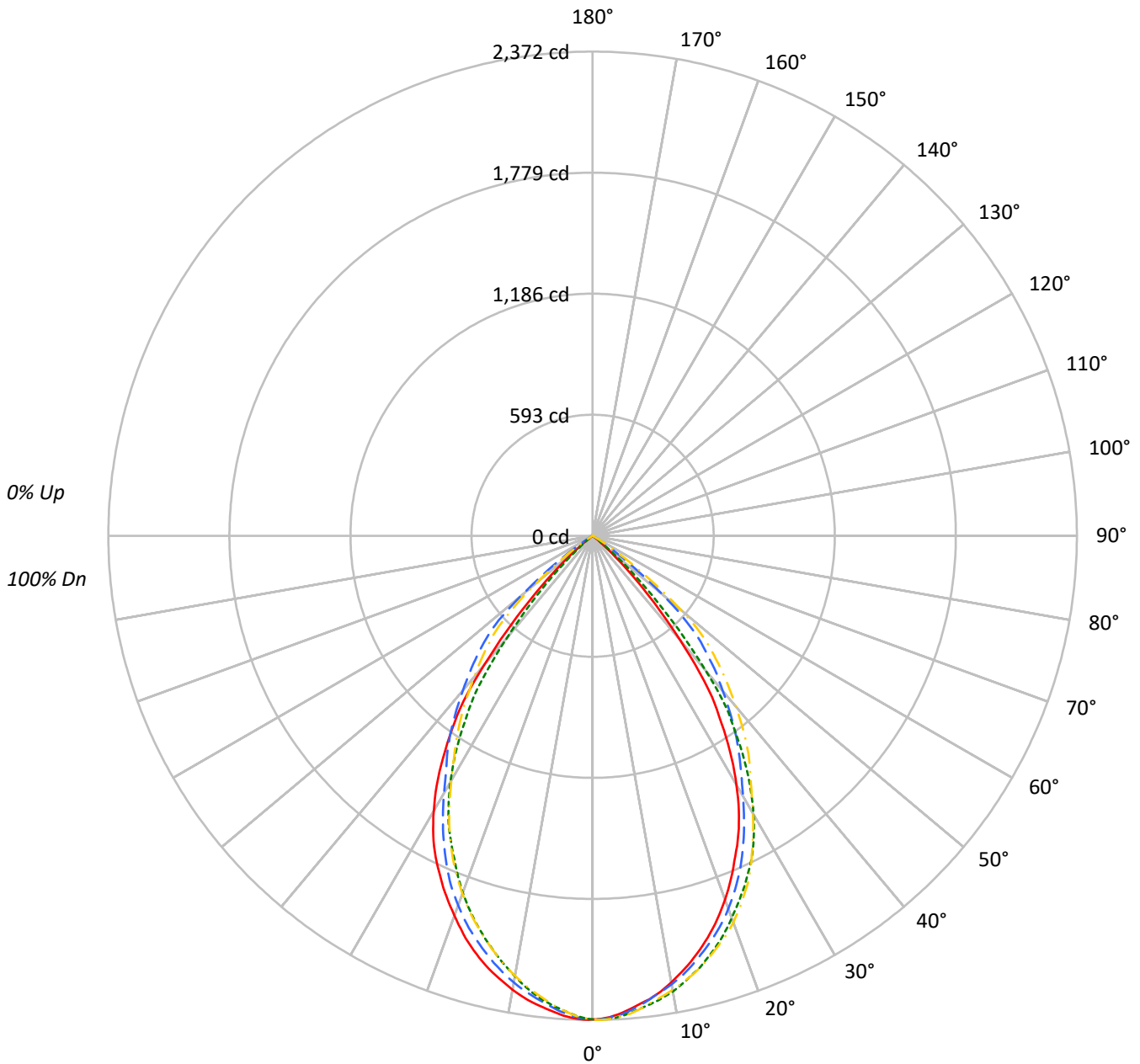
Lumens per Lamp: N/A
Luminaire Lumens: 2813.4 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P776179
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRC-2500lm-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P776179

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100															
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92															
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85				85															
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	78				78															
4	95	86	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71				71															
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65				65															
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61	60				60															
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55				55															
8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51				51															
9	71	60	54	49	70	60	54	49	59	53	49	58	53	49	57	52	49	47				47															
10	67	56	50	46	66	56	50	46	55	50	46	54	49	45	54	49	45	44				44															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	72351	72351	72351	72351
5°	71046	71656	71582	70696
10°	68851	70243	70001	67936
15°	65734	67952	67674	64476
20°	61613	64732	64313	60414
25°	56411	60952	60403	55421
30°	49679	55559	54875	49136
35°	40275	47009	46230	39976
40°	26451	34283	32892	26081
45°	11614	17612	16519	11360
50°	2536	5111	4560	2451
55°	330	495	452	314
60°	269	397	360	250
65°	224	332	296	202
70°	187	277	250	161
75°	153	248	212	153
80°	141	229	176	141
85°	105	175	175	105

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 36903 cd/sqm



TEST NUMBER: P776179
 CATALOG NUMBER: HCDJBL51525CSD-HCD8TRC-2500lm-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.8	7.8
10°-20°	588.8	20.9
20°-30°	792.0	28.1
30°-40°	748.3	26.6
40°-50°	401.6	14.3
50°-60°	58.1	2.1
60°-70°	3.8	0.1
70°-80°	1.7	0.1
80°-90°	0.4	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°	1599.5	56.9
0°-40°	2347.8	83.4
0°-60°	2807.5	99.8
0°-90°	2813.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2813.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2370	2370	2370	2370	2370	
5°	2318	2338	2336	2307	2318	218
15°	2080	2150	2141	2040	2080	582
25°	1675	1809	1793	1645	1675	765
35°	1081	1261	1240	1073	1081	662
45°	269	408	383	263	269	223
55°	6	9	8	6	6	10
65°	3	5	4	3	3	3
75°	1	2	2	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P776179

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2369.8	2369.8	2369.8	2369.8	2369.8	2369.8	2369.8	2369.8	2369.8	2369.8	2369.8
0.5°	2369.6	2369.8	2369.6	2370.1	2370.6	2371.1	2371.4	2372.1	2371.6	2370.3	2368.3
1°	2367.2	2368.0	2368.3	2369.8	2371.1	2371.6	2372.1	2372.1	2371.1	2368.8	2365.7
1.5°	2363.6	2365.4	2365.9	2368.0	2370.1	2371.1	2371.4	2371.4	2369.3	2366.5	2362.9
2°	2359.5	2362.1	2362.9	2365.4	2368.5	2369.3	2369.6	2369.6	2367.0	2363.1	2358.7
2.5°	2354.6	2357.7	2358.7	2362.1	2365.9	2366.7	2367.2	2367.0	2363.6	2358.7	2353.8
3°	2348.4	2352.0	2353.8	2357.4	2362.1	2363.4	2363.6	2363.1	2359.8	2354.1	2347.9
3.5°	2341.7	2345.6	2347.9	2352.0	2357.4	2359.0	2359.2	2358.5	2354.6	2348.1	2341.2
4°	2333.4	2338.1	2341.4	2346.1	2351.7	2353.6	2354.1	2353.3	2348.7	2341.4	2333.4
4.5°	2326.2	2330.8	2333.9	2338.3	2345.0	2347.4	2348.1	2346.8	2342.2	2334.2	2325.2
5°	2318.2	2323.9	2325.4	2330.6	2338.1	2340.1	2341.2	2340.1	2335.7	2326.5	2316.4
5.5°	2310.2	2315.6	2316.6	2321.8	2331.1	2332.9	2333.2	2332.9	2329.8	2318.7	2307.9
6°	2301.9	2307.1	2307.6	2314.1	2324.9	2325.9	2324.9	2326.7	2323.1	2311.2	2299.1
6.5°	2294.7	2299.1	2298.1	2305.8	2318.7	2319.2	2316.6	2319.5	2316.9	2303.2	2290.1
7°	2286.7	2291.3	2288.2	2297.5	2312.3	2312.3	2307.6	2312.5	2310.4	2295.5	2281.5
7.5°	2277.1	2282.6	2278.4	2289.8	2306.3	2305.5	2299.1	2304.8	2302.7	2287.0	2272.5
8°	2267.6	2273.3	2269.1	2281.8	2299.3	2298.6	2291.3	2296.5	2295.0	2278.2	2262.9
8.5°	2257.5	2263.2	2259.6	2273.3	2291.9	2291.3	2282.8	2287.7	2286.7	2268.6	2253.4
9°	2245.6	2252.4	2250.3	2263.5	2283.1	2282.8	2275.3	2279.0	2277.4	2259.3	2243.8
9.5°	2233.5	2240.7	2240.7	2253.9	2274.8	2274.3	2267.3	2268.9	2268.1	2249.8	2233.5
10°	2220.9	2228.6	2231.2	2243.8	2265.8	2265.5	2258.8	2258.6	2258.0	2239.5	2222.7
10.5°	2207.7	2215.7	2220.9	2233.8	2256.0	2256.2	2250.6	2248.0	2247.5	2229.1	2211.1
11°	2194.5	2201.5	2210.3	2222.4	2245.9	2245.9	2241.3	2237.1	2236.1	2217.5	2199.2
11.5°	2181.9	2187.6	2198.9	2211.1	2234.3	2235.3	2231.5	2225.3	2225.3	2205.9	2186.8
12°	2168.7	2173.9	2186.5	2198.7	2222.4	2223.7	2221.6	2213.4	2214.7	2194.0	2174.1
12.5°	2155.3	2160.2	2173.6	2186.3	2211.1	2211.3	2211.6	2201.5	2203.8	2182.9	2161.0
13°	2141.4	2146.0	2161.2	2173.4	2200.0	2198.9	2201.5	2190.7	2193.2	2171.6	2148.3
13.5°	2126.1	2132.1	2147.0	2161.2	2189.1	2187.6	2190.7	2179.6	2180.9	2160.7	2134.1
14°	2110.9	2117.3	2133.6	2149.1	2177.2	2176.2	2179.6	2169.0	2167.7	2149.1	2119.7
14.5°	2095.1	2101.9	2119.2	2137.0	2163.6	2164.3	2167.4	2157.1	2154.8	2136.2	2105.2
15°	2079.7	2085.9	2105.2	2124.1	2149.9	2151.9	2154.8	2144.5	2141.1	2122.5	2090.2
15.5°	2063.4	2070.4	2090.2	2109.9	2135.7	2138.3	2141.4	2131.3	2127.4	2108.6	2075.8
16°	2046.9	2054.1	2076.8	2095.4	2122.0	2124.6	2127.9	2118.9	2113.0	2094.1	2061.1
16.5°	2029.6	2038.1	2061.8	2080.7	2108.1	2110.1	2114.8	2105.0	2098.2	2079.7	2046.6
17°	2011.8	2021.3	2046.1	2065.5	2093.1	2096.4	2101.6	2091.3	2083.3	2064.2	2030.6
17.5°	1993.7	2005.1	2029.6	2050.0	2078.1	2081.7	2088.7	2077.1	2067.0	2048.4	2015.4
18°	1974.9	1987.5	2014.6	2034.2	2061.8	2067.0	2076.3	2062.6	2049.7	2031.6	1998.1
18.5°	1955.5	1969.4	1997.6	2018.2	2045.3	2051.3	2062.1	2047.4	2032.4	2014.3	1980.5
19°	1936.1	1951.4	1980.3	2001.2	2028.3	2035.0	2047.4	2031.1	2015.4	1996.5	1962.7
19.5°	1916.5	1933.0	1962.5	1983.1	2010.2	2018.5	2031.4	2014.3	1997.1	1978.7	1944.4
20°	1896.4	1913.7	1944.4	1965.0	1992.4	2001.2	2015.1	1997.3	1979.5	1960.4	1925.8
20.5°	1876.0	1894.3	1925.0	1946.2	1974.9	1983.6	1997.6	1979.8	1961.9	1941.3	1907.2
21°	1854.3	1874.7	1905.1	1927.1	1957.0	1965.6	1980.5	1962.2	1944.1	1922.2	1888.6



TEST NUMBER: P776179

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1787.7	1812.0	1845.0	1867.7	1903.6	1912.4	1924.3	1908.5	1890.7	1865.1	1828.2
23°	1763.7	1789.2	1823.1	1847.3	1885.5	1894.6	1904.9	1890.4	1872.9	1844.7	1806.3
23.5°	1740.4	1767.0	1801.6	1828.0	1867.7	1876.8	1885.5	1872.4	1851.7	1824.3	1783.8
24°	1717.7	1743.0	1778.9	1807.8	1847.6	1856.9	1866.2	1852.0	1831.6	1803.7	1760.6
24.5°	1696.0	1720.3	1755.4	1787.9	1828.2	1837.8	1844.0	1831.6	1812.0	1782.8	1737.1
25°	1674.6	1698.1	1731.9	1767.3	1809.4	1817.6	1821.3	1810.9	1793.1	1761.6	1712.6
25.5°	1651.6	1676.4	1707.7	1746.4	1791.3	1797.0	1797.5	1789.2	1774.0	1741.5	1688.3
26°	1627.9	1656.3	1683.1	1725.5	1771.4	1777.1	1773.8	1768.3	1753.9	1722.1	1663.5
26.5°	1603.6	1635.4	1658.4	1704.8	1749.7	1758.0	1748.2	1747.9	1732.2	1702.8	1638.5
27°	1578.1	1613.4	1632.3	1685.2	1727.5	1739.9	1722.4	1728.8	1709.5	1683.1	1613.4
27.5°	1552.0	1590.5	1606.5	1665.8	1704.6	1720.6	1697.3	1709.5	1686.2	1662.5	1587.9
28°	1524.4	1565.9	1579.4	1644.9	1680.6	1700.2	1672.3	1689.3	1662.0	1640.5	1562.1
28.5°	1497.0	1541.9	1553.0	1623.5	1655.8	1679.0	1647.0	1667.1	1637.2	1618.1	1536.3
29°	1468.1	1517.1	1526.2	1600.0	1629.7	1656.6	1622.7	1645.7	1611.1	1594.6	1509.9
29.5°	1439.2	1491.6	1499.3	1576.5	1603.1	1633.6	1596.4	1622.0	1583.8	1570.1	1482.3
30°	1409.2	1464.7	1473.3	1552.0	1576.0	1609.6	1571.4	1597.7	1556.6	1544.8	1454.4
30.5°	1378.8	1436.6	1447.4	1526.4	1547.6	1584.3	1545.0	1572.7	1528.0	1517.9	1427.8
31°	1345.7	1408.5	1421.9	1500.1	1519.0	1558.5	1519.0	1547.1	1499.9	1491.1	1402.3
31.5°	1316.3	1380.6	1398.1	1473.0	1489.0	1531.6	1492.4	1519.7	1469.9	1463.2	1377.7
32°	1283.5	1351.9	1374.4	1445.6	1459.1	1504.2	1467.6	1492.9	1440.2	1435.3	1355.0
32.5°	1251.5	1322.2	1350.9	1418.3	1428.3	1476.4	1443.3	1464.7	1408.0	1406.9	1332.8
33°	1217.2	1292.8	1327.4	1390.7	1397.1	1448.0	1420.9	1436.3	1376.5	1378.3	1312.2
33.5°	1185.2	1262.6	1303.7	1362.3	1364.6	1419.1	1399.2	1407.2	1342.9	1347.8	1291.0
34°	1150.1	1231.9	1280.9	1333.3	1331.0	1390.4	1378.3	1377.5	1309.1	1318.1	1269.8
34.5°	1116.0	1200.4	1258.2	1303.7	1295.9	1359.7	1357.1	1347.8	1274.2	1286.4	1247.4
35°	1080.6	1168.4	1235.2	1274.7	1261.3	1328.4	1336.2	1317.3	1240.4	1255.1	1225.7
35.5°	1048.3	1136.1	1212.0	1244.5	1227.0	1296.9	1314.0	1286.9	1205.0	1223.1	1202.2
36°	1015.3	1103.9	1187.2	1213.6	1192.1	1265.5	1291.0	1255.1	1170.7	1190.8	1179.2
36.5°	983.6	1070.8	1162.7	1182.3	1158.1	1231.9	1267.5	1222.9	1137.7	1157.8	1155.2
37°	942.2	1039.1	1137.9	1150.3	1125.0	1198.3	1243.3	1190.6	1104.4	1125.5	1131.2
37.5°	896.0	1007.8	1113.4	1118.6	1093.5	1164.8	1218.0	1158.3	1065.4	1092.5	1106.7
38°	849.8	977.1	1088.1	1086.6	1053.5	1131.7	1192.7	1126.3	1024.6	1060.7	1082.9
38.5°	803.9	945.9	1063.1	1055.3	1010.1	1099.7	1167.6	1094.0	978.1	1029.5	1059.2
39°	757.7	903.5	1039.3	1026.1	963.9	1068.7	1142.6	1064.1	929.3	998.8	1035.7
39.5°	711.5	860.7	1015.0	995.9	911.8	1039.6	1116.8	1033.6	876.7	963.4	1011.7
40°	663.7	817.8	991.8	967.8	860.2	1002.7	1091.7	1002.4	825.3	923.9	988.5
40.5°	616.2	775.0	967.5	934.5	809.0	962.9	1067.2	969.4	775.5	881.3	965.5
41°	572.6	732.1	944.6	892.7	760.0	920.0	1042.7	930.6	727.5	836.4	942.8
41.5°	529.0	686.7	931.9	850.6	713.0	872.8	1018.9	889.6	681.3	789.9	920.8
42°	488.9	643.1	906.9	808.5	665.8	824.8	994.4	845.7	634.0	744.2	898.4
42.5°	450.0	599.4	881.6	766.7	621.9	777.5	971.4	801.0	589.6	701.1	876.9
43°	412.3	555.8	856.5	724.6	574.4	732.4	948.4	756.9	543.9	658.5	855.5
43.5°	373.3	514.2	831.2	682.0	530.8	688.7	925.0	713.5	500.3	618.0	833.6



TEST NUMBER: P776179

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	269.0	401.7	764.9	563.3	407.9	560.2	854.7	591.2	382.6	495.4	767.2
45.5°	237.2	365.0	743.0	523.5	371.7	518.1	831.0	550.1	346.7	457.2	745.8
46°	208.1	330.2	718.9	486.4	334.3	477.8	807.8	509.6	311.8	419.0	724.1
46.5°	179.2	296.1	690.6	447.9	301.0	439.6	785.0	470.6	278.8	385.4	699.1
47°	152.6	264.3	657.8	412.0	271.1	402.5	763.9	432.7	249.9	349.8	674.8
47.5°	127.8	233.6	624.2	376.4	241.4	365.8	736.8	396.5	221.0	317.3	646.4
48°	107.1	204.5	590.9	343.9	211.7	330.9	709.9	361.2	191.8	284.2	618.5
48.5°	89.1	176.8	558.9	310.3	181.7	297.4	679.2	327.3	163.2	255.6	581.1
49°	76.9	151.0	521.7	279.1	152.3	267.7	642.3	294.0	138.9	226.7	541.1
49.5°	65.3	127.0	484.0	248.1	128.8	238.5	604.1	265.4	116.9	198.0	498.2
50°	53.4	105.3	443.0	218.9	107.6	209.1	562.3	236.5	96.0	169.3	456.4
50.5°	41.8	86.2	401.7	190.3	88.3	179.9	520.9	207.8	77.7	145.1	416.7
51°	32.5	74.6	361.4	165.0	71.0	150.5	479.1	179.2	61.4	122.9	378.2
51.5°	23.5	63.0	323.7	140.7	56.5	127.5	438.6	150.5	51.1	102.7	341.0
52°	14.7	51.1	288.1	118.5	47.2	106.4	397.6	127.0	40.5	83.1	304.4
52.5°	9.0	39.5	254.5	98.4	37.9	86.5	359.6	105.3	30.2	65.8	273.9
53°	8.0	30.5	222.3	83.6	28.4	69.4	321.7	86.0	19.6	50.9	243.2
53.5°	7.5	21.9	192.1	69.2	19.1	55.0	286.0	68.2	9.6	42.1	212.7
54°	7.0	13.4	164.4	54.5	10.1	45.4	254.8	52.7	9.0	33.3	182.0
54.5°	6.5	7.5	139.4	39.8	9.6	36.1	223.6	43.6	8.8	24.5	151.5
55°	6.2	7.0	116.7	25.3	9.3	26.8	192.6	34.6	8.5	15.7	128.3
55.5°	5.9	6.5	96.5	14.7	8.8	17.6	161.3	25.3	8.3	7.2	107.1
56°	5.7	6.2	82.9	8.0	8.5	8.3	135.8	16.3	8.0	7.0	87.8
56.5°	5.7	5.7	69.4	7.5	8.3	7.7	112.3	7.5	7.7	6.7	71.0
57°	5.4	5.4	55.8	7.2	8.0	7.5	91.4	7.2	7.5	6.5	56.3
57.5°	5.2	5.4	42.3	7.0	7.7	7.2	72.8	7.0	7.2	6.5	44.4
58°	4.9	5.2	28.9	6.7	7.5	7.0	56.8	7.0	7.0	6.2	37.4
58.5°	4.9	4.9	22.2	6.5	7.2	6.7	43.6	6.7	6.7	5.9	30.7
59°	4.6	4.9	17.0	6.2	7.0	6.7	36.7	6.5	6.5	5.7	23.7
59.5°	4.6	4.6	13.2	5.9	6.7	6.5	29.9	6.2	6.2	5.7	17.0
60°	4.4	4.6	10.1	5.9	6.5	6.2	23.5	5.9	5.9	5.4	10.3
60.5°	4.1	4.4	8.5	5.7	6.2	5.9	16.8	5.9	5.9	5.2	7.7
61°	4.1	4.4	7.2	5.4	6.2	5.7	10.1	5.7	5.7	5.2	5.7
61.5°	3.9	4.1	5.9	5.4	5.9	5.7	7.5	5.4	5.4	4.9	4.6
62°	3.9	4.1	4.4	5.2	5.7	5.4	5.9	5.4	5.2	4.6	4.1
62.5°	3.6	3.9	4.4	4.9	5.4	5.2	4.9	5.2	5.2	4.6	4.1
63°	3.6	3.9	4.1	4.9	5.4	5.2	4.6	4.9	4.9	4.4	3.9
63.5°	3.4	3.6	4.1	4.6	5.2	4.9	4.6	4.9	4.6	4.4	3.9
64°	3.4	3.6	3.9	4.6	4.9	4.9	4.4	4.6	4.6	4.1	3.6
64.5°	3.1	3.4	3.9	4.4	4.9	4.6	4.4	4.4	4.4	4.1	3.6
65°	3.1	3.4	3.6	4.1	4.6	4.4	4.1	4.4	4.1	3.9	3.4
65.5°	2.8	3.4	3.6	4.1	4.4	4.4	4.1	4.1	4.1	3.9	3.4
66°	2.8	3.1	3.4	3.9	4.4	4.1	3.9	4.1	3.9	3.6	3.1



TEST NUMBER: P776179

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	2.6	2.8	3.1	3.6	3.9	3.9	3.6	3.6	3.4	3.4	2.8
68°	2.3	2.6	3.1	3.4	3.6	3.6	3.4	3.4	3.4	3.1	2.8
68.5°	2.3	2.6	2.8	3.4	3.6	3.6	3.4	3.4	3.1	3.1	2.6
69°	2.3	2.3	2.8	3.1	3.4	3.4	3.1	3.1	3.1	2.8	2.6
69.5°	2.1	2.3	2.6	3.1	3.4	3.4	3.1	3.1	2.8	2.8	2.6
70°	2.1	2.3	2.6	2.8	3.1	3.1	2.8	2.8	2.8	2.6	2.3
70.5°	2.1	2.1	2.3	2.8	3.1	3.1	2.8	2.8	2.8	2.6	2.3
71°	1.8	2.1	2.3	2.6	3.1	2.8	2.6	2.6	2.6	2.6	2.1
71.5°	1.8	2.1	2.3	2.6	2.8	2.8	2.6	2.6	2.6	2.3	2.1
72°	1.8	1.8	2.1	2.6	2.8	2.6	2.3	2.6	2.3	2.3	2.1
72.5°	1.8	1.8	2.1	2.3	2.6	2.6	2.3	2.3	2.3	2.1	1.8
73°	1.5	1.8	1.8	2.3	2.6	2.6	2.1	2.3	2.3	2.1	1.8
73.5°	1.5	1.8	1.8	2.1	2.3	2.3	2.1	2.1	2.1	2.1	1.5
74°	1.5	1.5	1.8	2.1	2.3	2.3	2.1	2.1	2.1	1.8	1.5
74.5°	1.5	1.5	1.5	2.1	2.3	2.3	1.8	2.1	2.1	1.8	1.5
75°	1.3	1.5	1.5	1.8	2.1	2.1	1.8	1.8	1.8	1.8	1.3
75.5°	1.3	1.3	1.5	1.8	2.1	2.1	1.5	1.8	1.8	1.5	1.3
76°	1.3	1.3	1.3	1.8	2.1	1.8	1.5	1.8	1.8	1.5	1.3
76.5°	1.3	1.3	1.3	1.5	1.8	1.8	1.5	1.5	1.5	1.5	1.3
77°	1.0	1.3	1.3	1.5	1.8	1.8	1.3	1.5	1.5	1.3	1.0
77.5°	1.0	1.0	1.0	1.5	1.8	1.5	1.3	1.5	1.5	1.3	1.0
78°	1.0	1.0	1.0	1.3	1.5	1.5	1.3	1.3	1.3	1.3	1.0
78.5°	1.0	1.0	1.0	1.3	1.5	1.5	1.0	1.3	1.3	1.3	1.0
79°	1.0	1.0	1.0	1.3	1.5	1.3	1.0	1.3	1.3	1.0	0.8
79.5°	0.8	0.8	0.8	1.3	1.3	1.3	1.0	1.0	1.3	1.0	0.8
80°	0.8	0.8	0.8	1.0	1.3	1.3	1.0	1.0	1.0	1.0	0.8
80.5°	0.8	0.8	0.8	1.0	1.3	1.0	0.8	1.0	1.0	0.8	0.8
81°	0.8	0.8	0.8	1.0	1.0	1.0	0.8	0.8	1.0	0.8	0.5
81.5°	0.5	0.8	0.5	0.8	1.0	1.0	0.8	0.8	1.0	0.8	0.5
82°	0.5	0.5	0.5	0.8	1.0	1.0	0.8	0.8	0.8	0.8	0.5
82.5°	0.5	0.5	0.5	0.8	1.0	0.8	0.5	0.8	0.8	0.5	0.5
83°	0.5	0.5	0.5	0.5	0.8	0.8	0.5	0.5	0.8	0.5	0.5
83.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.5	0.5	0.8	0.5	0.3
84°	0.3	0.3	0.3	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.3
84.5°	0.3	0.3	0.3	0.5	0.8	0.5	0.5	0.5	0.5	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.5	0.3	0.3
85.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.5	0.3	0.3
86°	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3
86.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.3	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.3	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: P776179
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776179

CATALOG NUMBER: HCDJBL1525CSD-HCD8TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2369.8	2369.8	2369.8	2369.8	2369.8	2369.8
0.5°	2367.8	2366.2	2366.7	2367.2	2368.5	2369.6
1°	2364.9	2362.9	2362.3	2363.6	2365.7	2367.2
1.5°	2360.8	2357.7	2357.4	2358.7	2361.6	2363.6
2°	2355.9	2352.0	2351.0	2352.8	2356.1	2359.5
2.5°	2350.2	2345.0	2344.0	2346.1	2350.2	2354.6
3°	2343.2	2337.6	2336.8	2338.6	2343.5	2348.4
3.5°	2335.7	2330.1	2328.0	2330.6	2335.5	2341.7
4°	2328.3	2322.6	2320.5	2321.0	2327.0	2333.4
4.5°	2321.0	2315.1	2312.0	2311.5	2317.7	2326.2
5°	2313.3	2306.8	2303.2	2302.2	2308.6	2318.2
5.5°	2305.0	2297.8	2293.7	2291.9	2299.1	2310.2
6°	2296.0	2289.3	2284.1	2281.3	2288.8	2301.9
6.5°	2287.0	2279.2	2274.3	2270.9	2279.0	2294.7
7°	2277.7	2269.1	2262.9	2260.1	2269.7	2286.7
7.5°	2267.1	2257.3	2251.3	2248.7	2259.3	2277.1
8°	2255.7	2245.4	2239.2	2237.9	2248.7	2267.6
8.5°	2243.3	2232.5	2225.8	2225.5	2237.6	2257.5
9°	2230.7	2219.1	2212.3	2213.6	2226.0	2245.6
9.5°	2217.3	2205.6	2197.9	2201.5	2213.9	2233.5
10°	2203.6	2191.4	2184.0	2188.9	2201.0	2220.9
10.5°	2189.9	2177.0	2168.7	2175.9	2187.6	2207.7
11°	2175.4	2162.8	2153.5	2162.5	2173.9	2194.5
11.5°	2161.0	2148.8	2138.3	2148.6	2160.2	2181.9
12°	2146.8	2134.4	2124.1	2134.1	2146.0	2168.7
12.5°	2133.1	2118.9	2109.1	2119.4	2132.3	2155.3
13°	2119.2	2103.4	2094.6	2104.4	2118.4	2141.4
13.5°	2103.9	2087.7	2078.1	2089.0	2104.7	2126.1
14°	2089.5	2071.7	2061.8	2072.7	2090.5	2110.9
14.5°	2073.7	2055.9	2045.3	2056.9	2075.5	2095.1
15°	2058.5	2039.9	2029.6	2041.2	2059.8	2079.7
15.5°	2042.5	2023.4	2012.8	2025.2	2043.5	2063.4
16°	2027.0	2006.3	1996.3	2008.9	2027.3	2046.9
16.5°	2011.0	1989.8	1979.2	1992.1	2010.7	2029.6
17°	1994.7	1972.3	1962.5	1975.9	1993.7	2011.8
17.5°	1977.9	1954.2	1945.2	1958.3	1976.4	1993.7
18°	1961.2	1935.6	1927.1	1940.8	1958.3	1974.9
18.5°	1943.1	1917.5	1909.3	1923.0	1939.7	1955.5
19°	1925.0	1898.4	1890.4	1903.9	1920.9	1936.1
19.5°	1907.0	1879.1	1871.6	1885.3	1901.3	1916.5
20°	1888.9	1859.5	1852.0	1865.9	1880.6	1896.4
20.5°	1870.6	1838.8	1832.9	1846.0	1860.2	1876.0
21°	1850.9	1817.9	1813.2	1825.6	1839.3	1854.3

TEST NUMBER: P776179

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1788.2	1751.6	1750.3	1763.2	1774.5	1787.7
23°	1766.8	1728.6	1728.6	1740.7	1751.8	1763.7
23.5°	1743.8	1707.9	1705.3	1719.0	1729.1	1740.4
24°	1720.8	1687.0	1682.4	1695.3	1705.9	1717.7
24.5°	1696.8	1666.1	1660.9	1672.0	1681.3	1696.0
25°	1674.4	1645.2	1639.8	1647.8	1656.3	1674.6
25.5°	1652.4	1624.0	1620.2	1624.3	1633.1	1651.6
26°	1632.0	1602.1	1599.2	1598.7	1610.1	1627.9
26.5°	1612.1	1579.1	1578.6	1573.4	1588.7	1603.6
27°	1592.3	1555.1	1557.9	1547.4	1566.7	1578.1
27.5°	1571.4	1529.8	1536.0	1520.5	1543.7	1552.0
28°	1549.9	1503.5	1513.8	1493.1	1520.5	1524.4
28.5°	1527.2	1477.1	1490.3	1466.3	1496.5	1497.0
29°	1504.0	1450.3	1466.0	1438.7	1471.5	1468.1
29.5°	1479.5	1421.9	1441.3	1411.6	1445.4	1439.2
30°	1454.9	1393.8	1415.2	1384.2	1418.8	1409.2
30.5°	1429.1	1364.3	1388.6	1358.4	1391.7	1378.8
31°	1403.6	1334.1	1361.0	1332.6	1363.8	1345.7
31.5°	1376.2	1303.4	1333.3	1307.5	1335.4	1316.3
32°	1349.9	1272.7	1305.2	1282.2	1306.5	1283.5
32.5°	1322.2	1240.2	1277.1	1258.7	1277.3	1251.5
33°	1294.1	1207.9	1247.4	1235.2	1248.2	1217.2
33.5°	1266.0	1174.6	1216.7	1212.8	1218.7	1185.2
34°	1237.3	1140.5	1186.5	1190.3	1189.3	1150.1
34.5°	1207.1	1106.4	1153.9	1166.8	1158.3	1116.0
35°	1177.7	1072.6	1121.9	1143.1	1127.9	1080.6
35.5°	1147.7	1040.6	1089.7	1119.3	1097.4	1048.3
36°	1117.5	1009.6	1057.4	1094.3	1066.4	1015.3
36.5°	1086.3	977.9	1024.6	1069.8	1035.7	983.6
37°	1055.3	937.6	993.4	1045.8	1004.5	942.2
37.5°	1024.6	890.4	962.4	1021.5	973.5	896.0
38°	994.4	843.1	935.3	997.2	942.8	849.8
38.5°	966.0	796.1	893.2	972.7	909.7	803.9
39°	939.7	748.9	850.9	949.7	876.7	757.7
39.5°	911.0	701.7	808.5	923.1	843.4	711.5
40°	874.6	654.4	766.4	902.0	810.3	663.7
40.5°	832.8	607.7	724.4	880.6	777.0	616.2
41°	790.5	563.0	682.0	859.1	737.5	572.6
41.5°	748.4	519.7	638.7	837.7	698.3	529.0
42°	707.6	479.9	595.3	816.0	659.6	488.9
42.5°	666.3	442.0	552.4	794.1	619.0	450.0
43°	624.5	403.7	511.7	772.6	578.8	412.3
43.5°	581.9	365.8	472.9	750.7	539.0	373.3



TEST NUMBER: P776179

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	464.4	263.1	365.5	688.5	429.8	269.0
45.5°	428.3	232.6	330.9	664.0	395.7	237.2
46°	392.4	203.2	298.7	637.1	362.2	208.1
46.5°	357.5	175.0	266.9	603.3	327.6	179.2
47°	323.7	148.4	237.2	570.8	296.1	152.6
47.5°	290.7	124.9	207.6	539.5	264.6	127.8
48°	262.0	104.6	179.9	507.0	235.2	107.1
48.5°	233.4	87.3	154.1	472.2	206.0	89.1
49°	205.0	75.1	130.4	431.9	179.7	76.9
49.5°	176.3	63.2	109.2	391.9	153.1	65.3
50°	147.7	51.6	90.4	355.5	129.3	53.4
50.5°	124.2	40.0	78.5	320.1	107.6	41.8
51°	103.3	30.7	66.9	287.6	89.3	32.5
51.5°	85.2	21.7	55.0	256.1	77.7	23.5
52°	70.2	13.2	43.4	226.4	66.1	14.7
52.5°	57.6	7.7	31.5	198.5	54.5	9.0
53°	47.0	7.2	22.5	172.4	42.9	8.0
53.5°	39.0	7.0	13.9	147.7	31.5	7.5
54°	31.0	6.5	7.7	126.0	22.5	7.0
54.5°	22.7	6.2	7.2	106.1	14.2	6.5
55°	14.7	5.9	6.5	88.0	8.0	6.2
55.5°	6.7	5.7	5.9	74.9	7.2	5.9
56°	5.4	5.4	5.4	61.7	6.5	5.7
56.5°	5.4	5.4	5.2	48.5	5.7	5.7
57°	5.2	5.2	4.9	35.4	5.2	5.4
57.5°	4.9	4.9	4.9	26.8	4.9	5.2
58°	4.9	4.9	4.6	20.4	4.6	4.9
58.5°	4.6	4.6	4.6	15.0	4.6	4.9
59°	4.6	4.4	4.4	11.1	4.4	4.6
59.5°	4.4	4.4	4.4	9.8	4.4	4.6
60°	4.4	4.1	4.1	8.3	4.1	4.4
60.5°	4.1	4.1	4.1	6.7	4.1	4.1
61°	4.1	3.9	3.9	5.2	3.9	4.1
61.5°	3.9	3.9	3.9	3.9	3.9	3.9
62°	3.9	3.6	3.6	3.6	3.6	3.9
62.5°	3.6	3.6	3.6	3.6	3.6	3.6
63°	3.6	3.4	3.4	3.4	3.6	3.6
63.5°	3.4	3.1	3.4	3.4	3.4	3.4
64°	3.4	3.1	3.1	3.4	3.4	3.4
64.5°	3.1	2.8	3.1	3.1	3.1	3.1
65°	3.1	2.8	3.1	3.1	3.1	3.1
65.5°	3.1	2.8	2.8	2.8	3.1	2.8
66°	2.8	2.6	2.8	2.8	2.8	2.8



TEST NUMBER: P776179
 CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.6	2.3	2.6	2.6	2.6	2.6
68°	2.3	2.3	2.3	2.6	2.6	2.3
68.5°	2.3	2.1	2.3	2.3	2.3	2.3
69°	2.3	2.1	2.3	2.3	2.3	2.3
69.5°	2.1	2.1	2.1	2.3	2.3	2.1
70°	2.1	1.8	2.1	2.1	2.1	2.1
70.5°	2.1	1.8	2.1	2.1	2.1	2.1
71°	1.8	1.8	1.8	1.8	2.1	1.8
71.5°	1.8	1.8	1.8	1.8	1.8	1.8
72°	1.8	1.5	1.8	1.8	1.8	1.8
72.5°	1.8	1.5	1.5	1.5	1.8	1.8
73°	1.5	1.5	1.5	1.5	1.8	1.5
73.5°	1.5	1.5	1.5	1.5	1.5	1.5
74°	1.5	1.3	1.5	1.3	1.5	1.5
74.5°	1.3	1.3	1.3	1.3	1.5	1.5
75°	1.3	1.3	1.3	1.3	1.3	1.3
75.5°	1.3	1.3	1.3	1.3	1.3	1.3
76°	1.3	1.0	1.3	1.0	1.3	1.3
76.5°	1.3	1.0	1.0	1.0	1.3	1.3
77°	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0
78°	1.0	1.0	1.0	0.8	1.0	1.0
78.5°	1.0	1.0	1.0	0.8	1.0	1.0
79°	0.8	0.8	0.8	0.8	1.0	1.0
79.5°	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8
80.5°	0.8	0.8	0.8	0.5	0.8	0.8
81°	0.8	0.8	0.8	0.5	0.8	0.8
81.5°	0.5	0.5	0.5	0.5	0.5	0.5
82°	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	0.5
83°	0.5	0.5	0.5	0.3	0.5	0.5
83.5°	0.5	0.5	0.5	0.3	0.3	0.5
84°	0.3	0.5	0.3	0.3	0.3	0.3
84.5°	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.3	0.3
85.5°	0.3	0.3	0.3	0.3	0.3	0.3
86°	0.3	0.3	0.3	0.3	0.3	0.3
86.5°	0.3	0.3	0.3	0.0	0.0	0.3
87°	0.0	0.3	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: P776179
CATALOG NUMBER: HCDJBL1525CSD-HCD8TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

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



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°	1832.9	1854.0	1885.5	1907.2	1939.2	1947.7	1963.0	1944.4	1926.3	1903.1	1870.0
22°	1810.9	1833.4	1865.4	1887.1	1921.4	1929.9	1943.9	1926.3	1908.5	1884.2	1849.6



44°	336.6	476.0	808.8	642.3	486.4	645.9	901.7	671.7	458.2	575.9	811.6
44.5°	301.5	438.3	786.1	602.3	447.6	603.8	878.0	631.7	419.2	535.9	789.4



66.5°	2.6	3.1	3.4	3.9	4.1	4.1	3.6	3.9	3.6	3.6	3.1
67°	2.6	2.8	3.4	3.6	3.9	3.9	3.6	3.6	3.6	3.4	3.1



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°	1830.8	1796.7	1792.1	1805.8	1818.4	1832.9
22°	1809.6	1774.0	1770.9	1784.6	1796.7	1810.9



44°	540.6	330.4	437.0	729.0	500.3	336.6
44.5°	501.8	295.3	400.9	707.3	464.4	301.5

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

Scaled Data Report



66.5°	2.8	2.6	2.6	2.8	2.8	2.6
67°	2.6	2.3	2.6	2.6	2.6	2.6

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)