

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: P776084

Luminaire Tested: HCDJBL51525CSD-HCD6TRH-2500lm-5000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776084  
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-HCD6TRH-2500lm-5000K  
Description: 6 INCH ROUND MEDIUM HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

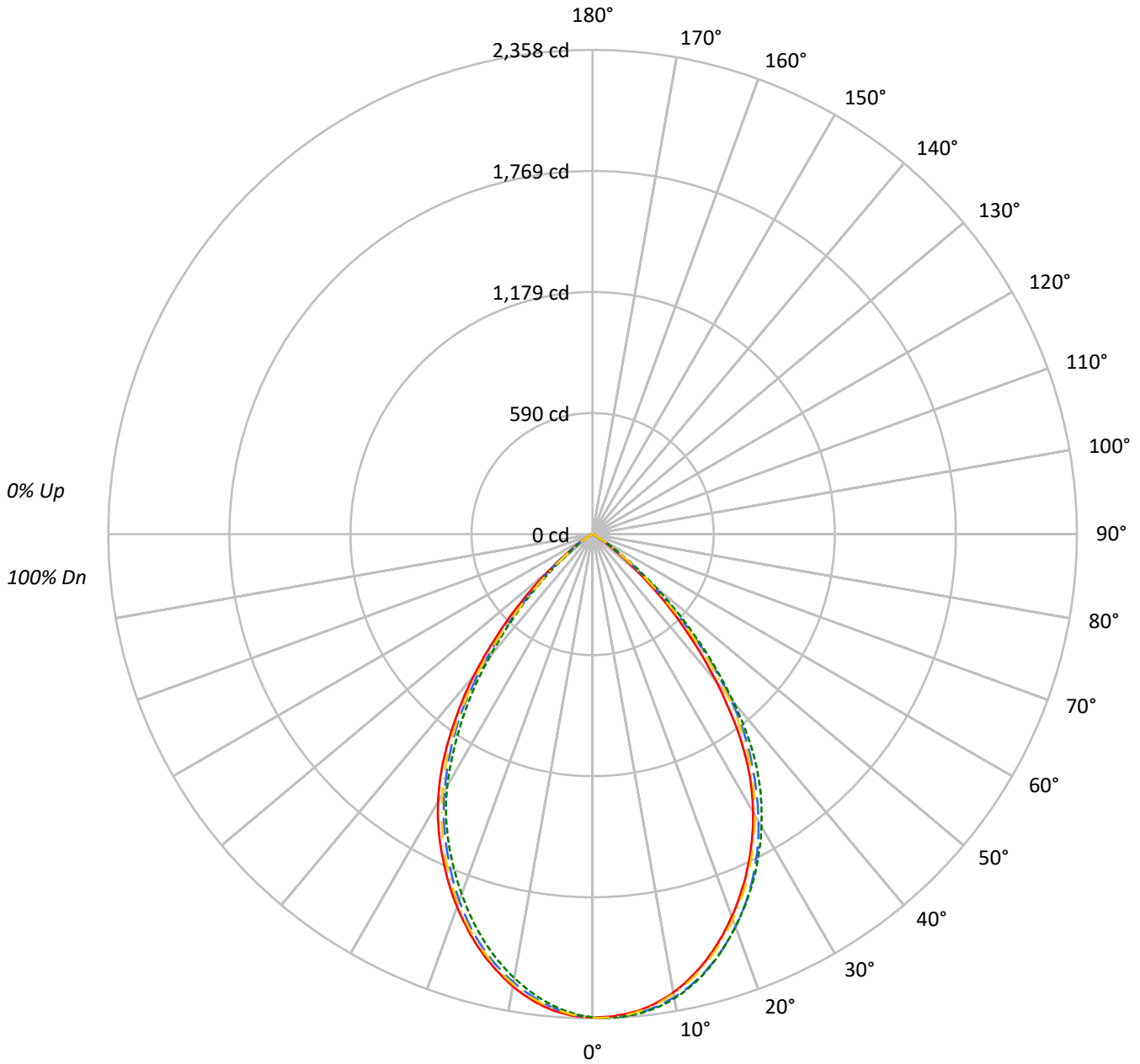
Lumens per Lamp: N/A  
Luminaire Lumens: 2960.4 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P776084  
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P776084

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRH-2500lm-5000K

**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	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77					77			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70					70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64					64			
6	83	73	67	62	82	73	66	62	71	65	61	69	64	61	68	64	60	59					59			
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54					54			
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50					50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46					46			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43					43			

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

	0°	90°	180°	270°
0°	129047	129047	129047	129047
5°	128478	129253	127894	126601
10°	126156	127820	124474	122248
15°	121726	124200	119280	116289
20°	115627	118724	112628	108789
25°	108151	112204	104685	100361
30°	98908	104048	95280	89615
35°	85882	93304	81619	74224
40°	66947	76271	64342	55762
45°	45904	55362	44144	35841
50°	25278	33466	24178	17603
55°	9663	14700	10456	7493
60°	1272	3761	2522	987
65°	169	298	233	169
70°	48	80	80	80
75°	64	64	64	64
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 55362 cd/sqm



TEST NUMBER: P776084

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.8	7.4
10°-20°	595.8	20.1
20°-30°	805.9	27.2
30°-40°	773.7	26.1
40°-50°	450.6	15.2
50°-60°	110.9	3.7
60°-70°	3.6	0.1
70°-80°	0.2	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°	1621.4	54.8
0°-40°	2395.2	80.9
0°-60°	2956.7	99.9
0°-90°	2960.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2960.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2354	2354	2354	2354	2354	
5°	2335	2349	2324	2301	2335	221
15°	2145	2188	2102	2049	2145	602
25°	1788	1855	1731	1659	1788	819
35°	1283	1394	1220	1109	1283	790
45°	592	714	569	462	592	457
55°	101	154	109	78	101	104
65°	1	2	2	1	1	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P776084

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0
0.5°	2353.5	2353.7	2355.6	2357.1	2354.8	2355.8	2356.3	2355.3	2353.0	2351.9	2352.2
1°	2353.0	2354.0	2356.6	2358.4	2356.3	2356.8	2356.8	2355.0	2351.9	2349.9	2350.1
1.5°	2352.2	2354.0	2356.8	2359.2	2357.1	2357.6	2356.6	2354.3	2350.9	2347.8	2347.3
2°	2350.9	2353.7	2356.8	2359.2	2357.6	2357.6	2356.3	2353.0	2348.3	2345.2	2343.9
2.5°	2350.9	2352.7	2356.1	2358.7	2357.1	2356.8	2355.0	2351.2	2346.3	2341.9	2339.8
3°	2347.0	2351.2	2355.3	2357.9	2356.6	2356.1	2353.2	2348.3	2342.7	2338.0	2335.2
3.5°	2344.7	2349.4	2353.7	2356.6	2355.3	2354.0	2350.9	2345.5	2339.0	2333.6	2330.8
4°	2341.9	2347.3	2351.7	2354.8	2353.5	2352.2	2348.3	2341.6	2334.9	2329.0	2324.6
4.5°	2338.3	2344.7	2349.1	2352.5	2351.4	2349.6	2344.7	2337.5	2330.3	2323.0	2318.7
5°	2334.7	2341.4	2346.3	2349.9	2348.8	2346.5	2340.8	2332.9	2324.1	2316.9	2312.0
5.5°	2331.3	2337.5	2343.2	2346.5	2346.0	2343.2	2336.2	2327.4	2317.6	2310.1	2304.5
6°	2325.4	2333.1	2339.3	2342.9	2342.7	2339.0	2331.0	2321.0	2310.9	2302.9	2296.7
6.5°	2320.2	2328.7	2334.9	2339.0	2338.5	2334.4	2326.1	2314.0	2303.4	2295.2	2288.0
7°	2314.3	2323.3	2329.8	2334.7	2334.1	2329.8	2319.7	2307.1	2295.7	2286.7	2279.7
7.5°	2307.6	2317.4	2324.3	2329.2	2329.0	2324.3	2313.2	2298.8	2286.7	2277.4	2269.9
8°	2300.3	2310.9	2318.7	2323.3	2323.6	2318.7	2306.3	2290.5	2277.6	2267.8	2260.4
8.5°	2292.9	2304.0	2312.2	2317.1	2317.6	2312.0	2298.5	2281.8	2268.1	2258.0	2249.8
9°	2284.6	2296.2	2305.5	2310.4	2310.9	2305.0	2290.8	2272.5	2257.8	2247.7	2239.7
9.5°	2275.6	2288.5	2297.8	2303.2	2304.0	2297.8	2281.8	2262.4	2247.7	2236.6	2228.4
10°	2266.3	2280.0	2290.3	2295.4	2296.2	2289.5	2272.7	2252.4	2236.1	2225.5	2216.7
10.5°	2256.2	2270.7	2281.8	2287.2	2287.7	2281.0	2263.2	2241.3	2224.7	2213.9	2204.9
11°	2245.9	2261.4	2273.5	2278.4	2278.9	2271.4	2253.1	2230.2	2212.6	2201.8	2192.8
11.5°	2235.1	2251.3	2263.7	2268.9	2269.4	2261.9	2242.8	2218.6	2199.7	2189.4	2180.1
12°	2222.9	2240.7	2254.4	2258.8	2259.3	2251.3	2231.5	2206.4	2187.1	2176.5	2167.0
12.5°	2211.1	2229.6	2243.6	2248.7	2248.7	2240.5	2219.8	2194.0	2173.9	2163.1	2153.8
13°	2198.9	2218.6	2233.3	2238.4	2238.4	2229.4	2208.5	2181.4	2160.5	2149.4	2140.1
13.5°	2185.8	2206.2	2221.9	2226.6	2226.0	2217.0	2195.6	2168.0	2146.1	2135.5	2125.9
14°	2172.9	2194.0	2210.0	2214.9	2213.9	2204.9	2183.0	2154.3	2131.9	2120.8	2111.2
14.5°	2159.0	2180.9	2197.7	2202.8	2200.8	2191.5	2169.8	2139.9	2117.2	2105.3	2096.3
15°	2144.8	2168.0	2184.8	2190.2	2188.4	2178.3	2155.6	2125.4	2101.7	2089.6	2080.8
15.5°	2130.1	2154.1	2171.6	2177.5	2174.4	2164.6	2141.2	2110.5	2085.9	2074.3	2064.8
16°	2115.1	2139.6	2157.9	2163.3	2160.8	2150.4	2127.0	2095.2	2070.2	2058.1	2048.0
16.5°	2099.6	2125.2	2143.5	2149.4	2146.3	2135.5	2111.7	2079.5	2054.0	2041.1	2031.0
17°	2083.9	2110.2	2129.3	2135.2	2131.1	2120.5	2096.5	2063.5	2036.9	2023.5	2013.7
17.5°	2067.4	2095.0	2114.3	2120.8	2116.1	2105.0	2080.5	2046.5	2020.2	2006.0	1995.4
18°	2051.1	2079.0	2099.1	2105.3	2100.1	2089.3	2064.8	2030.0	2002.1	1987.9	1976.8
18.5°	2034.3	2062.7	2083.1	2089.8	2084.1	2073.3	2048.0	2012.4	1984.5	1969.3	1958.5
19°	2017.1	2046.2	2067.6	2074.1	2068.1	2057.0	2031.0	1994.9	1966.7	1951.3	1938.6
19.5°	1999.5	2029.2	2050.9	2057.8	2051.9	2040.0	2013.7	1976.8	1949.2	1931.7	1918.8
20°	1982.0	2012.2	2034.6	2041.3	2035.1	2022.5	1996.7	1959.3	1930.6	1912.3	1898.9
20.5°	1963.7	1994.1	2017.6	2023.5	2017.3	2005.4	1978.6	1940.7	1911.8	1892.7	1879.0
21°	1945.3	1976.0	2000.3	2006.5	2000.0	1987.6	1960.0	1922.4	1893.2	1873.3	1859.2



TEST NUMBER: P776084

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRH-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1888.8	1919.8	1945.8	1951.8	1948.4	1932.2	1903.8	1867.2	1834.4	1812.5	1794.4
23°	1869.5	1900.2	1926.8	1932.9	1930.1	1912.6	1885.2	1847.3	1813.5	1791.3	1772.7
23.5°	1849.9	1880.1	1907.4	1913.6	1911.8	1893.0	1866.4	1827.4	1793.1	1769.6	1750.3
24°	1829.5	1860.2	1887.0	1893.7	1893.5	1873.3	1846.3	1807.3	1772.2	1748.2	1728.1
24.5°	1808.8	1839.8	1866.9	1873.9	1875.2	1856.8	1825.4	1786.9	1752.1	1726.5	1705.4
25°	1788.0	1819.2	1846.3	1853.5	1855.0	1836.5	1804.2	1766.5	1730.7	1704.9	1683.5
25.5°	1767.1	1797.2	1825.4	1832.3	1834.9	1815.6	1783.0	1745.4	1709.5	1682.7	1660.8
26°	1746.2	1776.3	1803.7	1811.7	1815.0	1795.2	1761.6	1724.7	1688.4	1660.8	1638.3
26.5°	1724.0	1754.9	1781.5	1790.3	1794.9	1773.5	1739.4	1703.3	1666.9	1638.6	1615.3
27°	1702.3	1732.2	1759.6	1768.6	1774.5	1752.6	1717.8	1682.2	1644.5	1616.4	1592.6
27.5°	1679.6	1709.3	1736.6	1746.7	1753.1	1730.7	1695.8	1660.5	1623.1	1593.7	1569.2
28°	1657.1	1686.3	1712.9	1724.0	1731.7	1709.0	1673.7	1638.3	1600.6	1569.7	1544.9
28.5°	1634.2	1663.1	1689.1	1701.3	1710.6	1686.8	1651.2	1616.4	1578.2	1545.4	1519.9
29°	1610.7	1639.3	1664.9	1678.0	1688.9	1664.6	1628.0	1593.4	1554.7	1521.4	1494.9
29.5°	1586.7	1614.6	1639.9	1654.6	1666.2	1642.4	1604.8	1569.4	1530.2	1496.4	1468.3
30°	1562.5	1589.5	1614.8	1630.6	1643.7	1619.7	1581.0	1545.4	1505.2	1471.1	1442.0
30.5°	1537.7	1564.3	1589.5	1605.3	1620.8	1596.3	1557.0	1520.4	1480.4	1444.6	1415.1
31°	1512.4	1538.5	1562.7	1581.0	1598.3	1572.8	1532.3	1495.4	1453.8	1418.0	1387.8
31.5°	1486.3	1512.1	1537.2	1555.5	1574.1	1549.0	1507.2	1469.6	1426.7	1391.1	1360.2
32°	1459.3	1484.8	1510.1	1529.4	1550.1	1524.8	1482.2	1443.3	1398.9	1363.5	1331.8
32.5°	1432.7	1458.7	1483.3	1502.9	1525.8	1499.8	1456.4	1416.4	1370.8	1335.4	1303.9
33°	1404.8	1431.1	1456.7	1476.8	1501.1	1474.5	1430.4	1388.3	1341.9	1306.3	1276.1
33.5°	1376.2	1403.5	1430.6	1450.2	1475.0	1448.9	1404.0	1359.9	1312.2	1277.1	1248.0
34°	1346.0	1375.1	1403.0	1423.4	1449.5	1422.6	1377.2	1331.3	1282.3	1248.2	1219.3
34.5°	1315.3	1347.3	1375.4	1396.3	1421.6	1395.0	1350.6	1301.9	1250.5	1217.3	1189.9
35°	1283.3	1318.1	1347.3	1367.9	1394.2	1367.7	1323.3	1271.7	1219.6	1186.3	1160.7
35.5°	1251.3	1289.0	1320.5	1339.8	1365.3	1340.1	1295.9	1241.8	1188.9	1155.6	1130.8
36°	1217.0	1259.6	1291.0	1311.7	1336.4	1311.9	1267.8	1211.6	1157.9	1124.4	1099.9
36.5°	1182.7	1228.3	1263.4	1283.6	1305.5	1282.8	1238.7	1180.9	1126.4	1092.6	1067.9
37°	1147.3	1196.6	1234.0	1253.9	1274.0	1252.6	1208.7	1150.4	1093.9	1060.6	1034.3
37.5°	1112.2	1163.6	1203.8	1223.4	1241.5	1221.6	1178.6	1119.0	1063.2	1028.1	1001.6
38°	1075.9	1129.8	1172.4	1190.7	1208.0	1189.1	1147.1	1087.7	1031.0	994.9	967.0
38.5°	1041.3	1096.0	1140.9	1160.0	1172.6	1156.4	1115.1	1056.3	999.0	961.3	932.7
39°	1005.2	1060.9	1107.6	1126.4	1137.8	1122.6	1081.8	1024.5	966.2	927.5	898.4
39.5°	970.3	1025.8	1073.8	1092.9	1101.9	1087.5	1048.0	991.8	933.7	893.5	862.8
40°	935.5	988.7	1038.5	1058.1	1065.8	1050.6	1013.4	958.2	899.1	858.4	827.2
40.5°	900.9	952.5	1004.4	1022.5	1030.2	1013.7	978.9	924.7	865.3	823.8	790.8
41°	865.9	918.5	969.6	986.1	994.6	976.0	941.7	890.9	830.8	789.5	754.7
41.5°	831.3	883.1	934.0	950.0	960.3	938.9	905.3	857.6	796.2	756.7	719.1
42°	796.5	847.5	897.3	928.5	925.2	901.5	868.4	822.3	761.4	722.4	684.0
42.5°	761.6	812.2	860.7	889.3	891.4	864.3	832.1	787.4	729.1	689.1	650.2
43°	726.3	776.6	824.1	849.3	857.1	827.7	795.9	751.8	695.8	656.1	617.7
43.5°	691.7	742.3	787.7	809.6	820.7	791.8	759.8	717.2	664.6	623.6	585.7



TEST NUMBER: P776084

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	592.1	639.3	677.5	698.7	714.1	685.5	652.5	613.8	569.4	528.6	495.1
45.5°	560.6	605.0	641.4	664.4	679.1	649.9	617.4	581.5	538.2	498.5	466.7
46°	528.1	571.7	605.5	630.0	645.3	615.8	583.3	548.3	507.7	468.5	439.1
46.5°	496.1	538.7	569.9	596.0	612.5	582.3	549.0	516.0	476.8	440.9	412.5
47°	464.9	505.9	535.9	561.7	579.7	549.5	516.0	483.2	446.9	412.3	386.5
47.5°	434.5	473.7	503.1	528.4	547.2	517.6	483.8	452.3	418.0	386.0	362.0
48°	404.8	442.5	470.9	495.6	515.2	487.4	452.5	421.1	390.1	360.2	338.5
48.5°	376.4	412.3	439.1	463.9	483.8	458.2	422.6	391.4	362.8	336.2	316.3
49°	348.6	382.6	409.2	432.7	452.5	429.1	393.2	362.2	335.4	312.2	294.9
49.5°	321.7	353.7	379.8	402.5	421.6	400.9	366.1	334.6	309.1	289.5	273.7
50°	296.4	325.1	351.4	372.0	392.4	372.8	339.3	308.3	283.5	268.1	254.4
50.5°	271.4	297.2	323.5	343.1	363.8	346.2	314.0	283.3	259.5	249.2	236.6
51°	247.9	271.4	297.7	315.3	335.9	320.2	290.0	259.8	238.7	230.7	218.8
51.5°	224.7	246.9	272.4	289.0	309.9	295.4	267.0	239.9	218.0	211.8	201.2
52°	203.0	223.9	248.7	263.9	284.6	271.2	247.9	220.1	197.1	193.2	183.4
52.5°	182.4	201.8	225.5	239.4	260.1	250.5	228.6	200.0	176.5	174.7	166.9
53°	163.3	181.6	204.1	216.5	238.1	229.6	209.2	180.1	160.2	158.7	152.2
53.5°	145.3	163.1	183.2	195.0	216.2	209.0	189.9	163.3	145.5	144.2	137.8
54°	129.3	145.8	164.3	175.4	194.0	188.1	170.5	148.1	132.4	130.5	124.6
54.5°	114.6	129.5	145.8	156.9	172.3	167.4	154.8	134.2	120.5	117.4	111.2
55°	101.1	115.1	129.3	140.1	153.8	151.4	139.8	121.8	109.4	105.5	99.1
55.5°	88.2	100.9	113.5	124.4	137.0	134.9	125.6	109.4	98.6	93.7	87.2
56°	78.2	88.0	99.6	109.7	121.5	120.5	112.0	98.3	88.2	82.8	76.4
56.5°	67.9	77.7	87.5	95.7	107.3	106.6	99.1	87.7	78.4	72.5	66.0
57°	57.8	67.6	76.9	84.6	94.2	93.7	87.2	77.4	68.9	63.0	56.8
57.5°	47.7	57.3	66.0	73.8	81.5	81.3	75.9	67.6	60.1	54.2	48.0
58°	38.2	47.0	55.5	62.7	70.2	69.9	65.5	58.6	51.6	45.2	38.4
58.5°	28.9	36.9	44.9	51.9	59.9	59.6	56.0	49.8	42.6	38.4	32.8
59°	21.2	27.9	34.8	41.0	49.8	50.3	46.4	40.2	36.1	31.7	26.8
59.5°	15.5	20.4	25.5	30.7	42.1	43.3	39.2	34.1	29.7	24.8	21.2
60°	11.6	14.7	18.6	22.4	34.3	36.4	32.3	27.9	23.0	18.1	15.5
60.5°	8.5	11.1	13.4	16.0	26.6	29.4	25.0	21.7	16.5	11.4	9.5
61°	7.2	9.5	10.1	11.9	18.8	22.4	17.8	15.5	10.3	8.8	7.5
61.5°	5.9	8.0	8.5	8.8	11.1	15.5	10.8	9.3	7.7	7.0	5.9
62°	4.6	6.5	7.0	7.5	8.3	8.5	8.3	7.0	5.9	5.4	4.9
62.5°	3.4	4.9	5.4	6.2	6.5	6.5	6.2	5.7	4.6	4.4	3.9
63°	2.8	3.6	4.1	4.9	5.2	5.2	4.9	4.4	3.9	3.6	3.4
63.5°	2.3	2.8	3.4	3.6	4.1	4.1	3.9	3.6	3.1	3.1	2.8
64°	1.8	2.3	2.8	3.1	3.4	3.4	3.4	3.1	2.6	2.6	2.3
64.5°	1.5	2.1	2.3	2.6	2.8	2.8	2.6	2.6	2.1	2.1	2.1
65°	1.3	1.8	2.1	2.1	2.3	2.3	2.3	2.1	1.8	1.8	1.8
65.5°	1.3	1.5	1.5	1.8	2.1	1.8	1.8	1.8	1.5	1.5	1.5
66°	1.0	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3





TEST NUMBER: P776084  
 CATALOG NUMBER: HCDJBL5125CSD-HCD6TRH-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8
68°	0.5	0.8	0.8	0.8	1.0	0.8	1.0	0.8	0.8	0.8	0.8
68.5°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
69°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.3
77°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P776084  
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-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: P776084

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRH-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0
0.5°	2353.2	2350.4	2351.9	2353.2	2354.0	2353.5
1°	2350.7	2347.3	2349.1	2351.2	2352.5	2353.0
1.5°	2347.3	2343.7	2346.0	2348.3	2351.2	2352.2
2°	2343.2	2339.3	2341.9	2345.2	2348.3	2350.9
2.5°	2338.8	2334.4	2337.0	2341.6	2345.8	2350.9
3°	2333.6	2328.7	2332.1	2337.0	2343.2	2347.0
3.5°	2327.9	2322.5	2326.1	2332.6	2339.6	2344.7
4°	2322.0	2316.1	2320.0	2327.4	2335.9	2341.9
4.5°	2315.3	2308.6	2313.2	2321.8	2331.3	2338.3
5°	2307.8	2300.6	2305.8	2315.3	2326.4	2334.7
5.5°	2299.8	2292.6	2297.8	2308.6	2320.7	2331.3
6°	2291.3	2283.8	2289.8	2301.6	2315.0	2325.4
6.5°	2282.3	2274.0	2280.7	2293.6	2308.6	2320.2
7°	2273.0	2264.7	2271.4	2285.4	2301.9	2314.3
7.5°	2262.9	2254.2	2261.6	2277.1	2294.4	2307.6
8°	2252.9	2243.1	2251.6	2267.8	2286.4	2300.3
8.5°	2242.0	2231.7	2240.7	2258.0	2277.4	2292.9
9°	2231.2	2220.4	2229.4	2248.0	2268.4	2284.6
9.5°	2219.1	2208.2	2218.0	2237.1	2258.5	2275.6
10°	2207.2	2196.1	2205.9	2226.3	2248.5	2266.3
10.5°	2194.6	2182.7	2193.8	2214.7	2237.9	2256.2
11°	2181.7	2169.3	2180.9	2202.3	2226.8	2245.9
11.5°	2168.5	2155.9	2167.5	2189.7	2215.2	2235.1
12°	2154.6	2141.4	2153.8	2176.8	2202.8	2222.9
12.5°	2140.6	2127.2	2139.9	2163.1	2190.2	2211.1
13°	2125.9	2112.3	2125.2	2149.4	2177.5	2198.9
13.5°	2111.0	2097.0	2109.9	2135.0	2163.9	2185.8
14°	2095.2	2081.6	2094.5	2120.8	2150.2	2172.9
14.5°	2079.2	2065.6	2078.7	2105.8	2135.7	2159.0
15°	2062.7	2049.0	2062.5	2090.3	2121.8	2144.8
15.5°	2046.7	2031.8	2045.7	2074.3	2106.1	2130.1
16°	2029.4	2015.0	2028.9	2058.6	2090.8	2115.1
16.5°	2012.2	1996.9	2011.4	2042.6	2075.4	2099.6
17°	1994.1	1979.4	1993.8	2025.8	2059.4	2083.9
17.5°	1976.6	1960.8	1975.8	2008.0	2042.1	2067.4
18°	1958.5	1942.0	1957.7	1990.5	2025.1	2051.1
18.5°	1939.7	1922.9	1939.4	1972.4	2007.8	2034.3
19°	1921.1	1904.3	1920.0	1953.8	1989.7	2017.1
19.5°	1902.2	1885.0	1901.5	1935.5	1971.6	1999.5
20°	1883.4	1864.8	1882.6	1916.2	1953.1	1982.0
20.5°	1864.8	1845.2	1863.3	1896.6	1933.7	1963.7
21°	1844.7	1825.4	1843.7	1877.0	1914.4	1945.3

TEST NUMBER: P776084

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRH-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1783.0	1765.0	1783.0	1814.8	1853.7	1888.8
23°	1761.9	1744.1	1761.9	1793.6	1832.8	1869.5
23.5°	1741.0	1723.5	1741.8	1772.5	1811.7	1849.9
24°	1719.3	1702.3	1720.1	1750.8	1790.0	1829.5
24.5°	1697.7	1681.1	1699.2	1728.6	1768.9	1808.8
25°	1676.0	1659.2	1677.3	1706.4	1747.2	1788.0
25.5°	1653.8	1637.5	1655.6	1684.2	1725.0	1767.1
26°	1632.1	1615.6	1632.6	1660.8	1703.1	1746.2
26.5°	1609.4	1592.9	1609.4	1638.3	1680.6	1724.0
27°	1586.2	1569.7	1585.9	1613.8	1657.9	1702.3
27.5°	1562.5	1546.5	1561.7	1589.8	1634.7	1679.6
28°	1538.2	1520.9	1536.1	1565.3	1611.0	1657.1
28.5°	1512.9	1495.6	1511.9	1540.5	1587.0	1634.2
29°	1487.6	1469.6	1485.8	1515.5	1562.7	1610.7
29.5°	1461.8	1443.3	1459.3	1489.4	1537.9	1586.7
30°	1435.0	1415.7	1432.2	1463.6	1513.2	1562.5
30.5°	1407.7	1386.2	1404.8	1437.1	1487.1	1537.7
31°	1379.8	1356.8	1375.9	1410.5	1461.1	1512.4
31.5°	1351.4	1326.9	1347.0	1384.2	1434.7	1486.3
32°	1322.8	1296.2	1316.8	1355.8	1408.2	1459.3
32.5°	1292.8	1265.8	1286.9	1328.7	1381.1	1432.7
33°	1262.4	1234.0	1256.2	1300.8	1352.7	1404.8
33.5°	1231.4	1202.8	1225.5	1272.7	1324.6	1376.2
34°	1200.2	1171.6	1195.1	1243.6	1295.4	1346.0
34.5°	1168.2	1140.1	1163.8	1212.9	1266.3	1315.3
35°	1136.8	1109.1	1132.1	1182.2	1235.3	1283.3
35.5°	1105.0	1077.9	1101.7	1150.7	1204.6	1251.3
36°	1072.5	1047.2	1070.7	1118.7	1171.3	1217.0
36.5°	1040.3	1016.0	1039.5	1085.9	1137.5	1182.7
37°	1007.5	984.3	1007.8	1049.8	1102.7	1147.3
37.5°	974.5	951.8	975.5	1016.0	1068.6	1112.2
38°	941.2	919.8	942.2	980.1	1031.5	1075.9
38.5°	906.9	884.7	907.6	945.6	994.9	1041.3
39°	873.6	849.6	873.1	925.7	956.9	1005.2
39.5°	839.5	814.3	838.5	885.5	914.1	970.3
40°	805.2	779.2	803.7	845.0	878.5	935.5
40.5°	771.2	745.4	769.1	804.7	842.9	900.9
41°	737.4	712.9	733.0	764.5	807.5	865.9
41.5°	705.1	680.6	698.2	728.9	771.9	831.3
42°	671.1	649.4	664.1	693.0	736.1	796.5
42.5°	638.3	617.7	631.3	657.6	701.0	761.6
43°	606.0	586.4	598.8	622.6	665.1	726.3
43.5°	573.3	555.0	565.5	588.2	630.6	691.7



TEST NUMBER: P776084

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	482.2	462.3	469.8	488.9	532.8	592.1
45.5°	453.1	433.4	438.3	458.0	502.6	560.6
46°	424.7	405.1	408.4	428.3	472.7	528.1
46.5°	398.4	376.4	379.0	399.6	444.3	496.1
47°	371.0	349.3	351.1	371.8	415.4	464.9
47.5°	346.0	322.8	324.6	345.5	388.6	434.5
48°	322.0	297.2	298.8	320.2	361.2	404.8
48.5°	298.8	272.2	274.8	296.2	335.1	376.4
49°	276.8	249.2	251.8	273.5	309.3	348.6
49.5°	255.9	227.0	230.1	251.6	285.3	321.7
50°	237.4	206.4	210.5	231.2	261.4	296.4
50.5°	219.0	187.8	191.7	211.6	239.2	271.4
51°	200.5	171.1	174.9	193.5	218.3	247.9
51.5°	182.1	155.8	159.2	176.0	198.4	224.7
52°	166.4	142.2	145.0	160.2	179.8	203.0
52.5°	151.2	129.8	131.6	145.3	162.3	182.4
53°	136.7	117.9	119.7	130.8	145.5	163.3
53.5°	123.8	107.1	108.1	117.1	130.0	145.3
54°	111.5	96.8	97.3	104.7	115.8	129.3
54.5°	99.6	87.5	88.0	92.9	102.7	114.6
55°	88.8	78.4	78.7	83.1	89.5	101.1
55.5°	77.9	69.4	69.7	73.3	79.5	88.2
56°	68.1	60.4	60.4	63.5	69.4	78.2
56.5°	59.1	51.3	51.1	53.9	59.3	67.9
57°	50.6	42.1	41.8	44.1	49.3	57.8
57.5°	41.3	32.8	32.8	34.6	39.7	47.7
58°	35.1	25.0	24.8	26.3	30.4	38.2
58.5°	28.9	18.8	18.3	19.4	22.7	28.9
59°	22.7	13.9	13.7	14.4	16.8	21.2
59.5°	16.5	10.6	10.3	10.8	12.4	15.5
60°	10.3	9.0	8.8	9.3	9.3	11.6
60.5°	8.0	7.2	7.2	7.7	8.0	8.5
61°	6.5	5.7	5.4	6.5	6.5	7.2
61.5°	5.2	4.1	3.9	4.9	5.2	5.9
62°	4.1	3.4	3.4	3.4	3.9	4.6
62.5°	3.4	2.8	2.6	2.8	3.1	3.4
63°	2.8	2.3	2.3	2.3	2.6	2.8
63.5°	2.3	2.1	1.8	1.8	2.1	2.3
64°	2.1	1.8	1.5	1.5	1.8	1.8
64.5°	1.8	1.5	1.3	1.3	1.5	1.5
65°	1.5	1.3	1.0	1.3	1.3	1.3
65.5°	1.3	1.0	1.0	1.0	1.0	1.3
66°	1.0	1.0	0.8	0.8	1.0	1.0



TEST NUMBER: P776084

CATALOG NUMBER: HCDJBL1525CSD-HCD6TRH-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.8	0.8	0.5	0.5	0.8	0.8
68°	0.8	0.5	0.5	0.5	0.5	0.5
68.5°	0.5	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.3	0.3	0.3	0.3
70.5°	0.5	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.0	0.0	0.3
75.5°	0.3	0.0	0.0	0.0	0.0	0.0
76°	0.3	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	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
83°	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
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: P776084  
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-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

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°	1926.5	1957.5	1982.7	1988.7	1983.0	1969.6	1941.5	1904.1	1874.6	1854.0	1837.7
22°	1907.9	1938.9	1964.2	1970.4	1965.5	1951.8	1922.6	1885.5	1854.3	1833.4	1816.6



44°	657.4	707.7	751.0	769.4	784.8	756.5	723.2	681.6	631.6	590.8	554.7
44.5°	624.4	673.6	714.1	734.0	749.2	721.1	688.3	647.6	601.4	560.1	525.3



66.5°	0.8	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0
67°	0.8	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.0	1.0	1.0



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°	1824.1	1805.5	1823.6	1856.3	1894.2	1926.5
22°	1803.7	1785.1	1803.4	1835.9	1874.1	1907.9



44°	542.3	523.2	533.0	554.4	597.5	657.4
44.5°	512.4	492.3	501.6	521.4	565.0	624.4

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

Scaled Data Report



66.5°	1.0	0.8	0.8	0.8	0.8	0.8
67°	0.8	0.8	0.8	0.8	0.8	0.8

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)