

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: P776202

Luminaire Tested: HCDJBL51525CSD-HCD8TSQC-2500lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776202
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-HCD8TSQC-2500lm-3500K
Description: 8 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

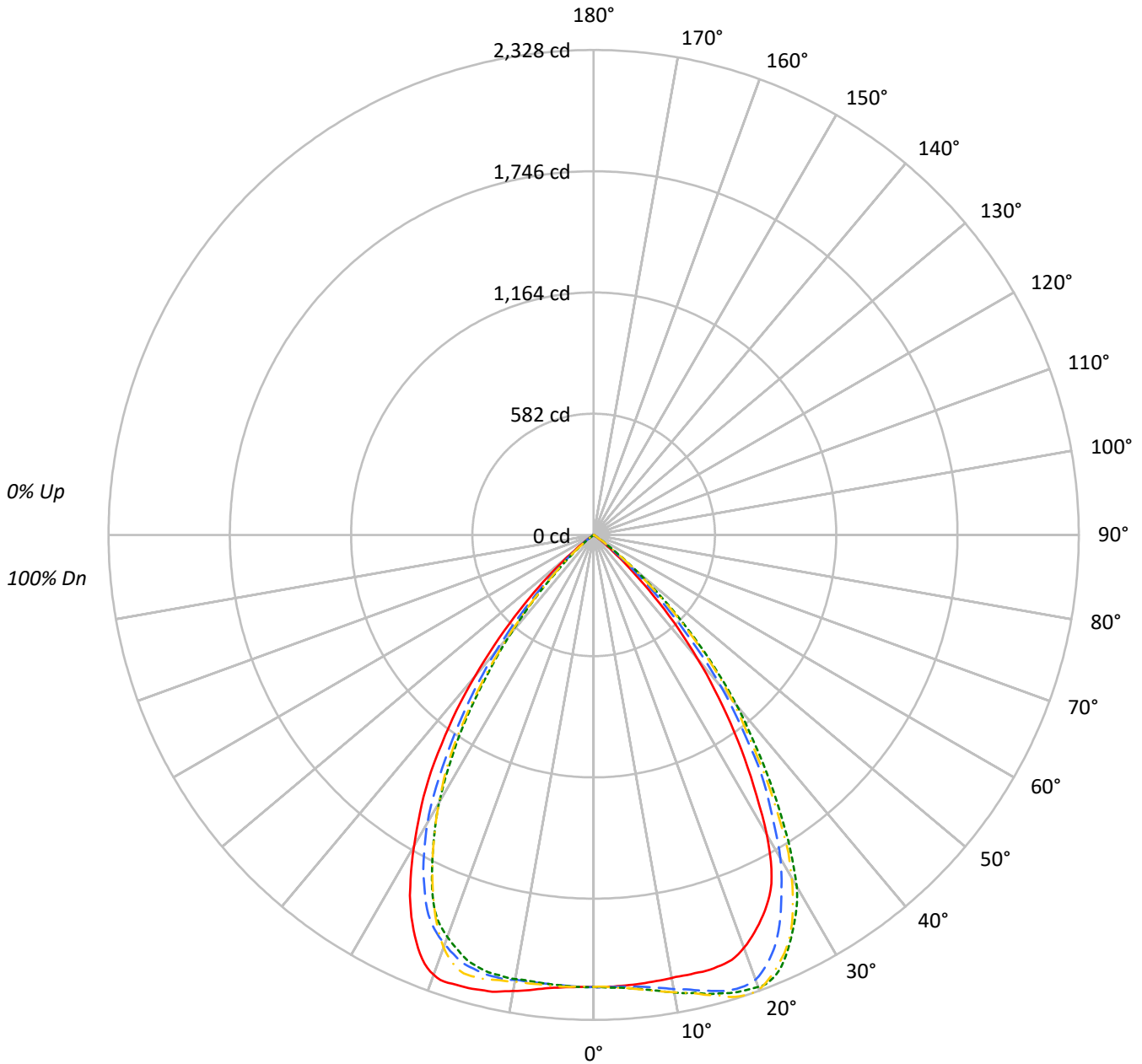
Lumens per Lamp: N/A
Luminaire Lumens: 2917.1 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.07
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P776202
CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQC-2500lm-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P776202

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQC-2500lm-3500K

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	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78					78			
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72					72			
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66					66			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61					61			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56					56			
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52					52			
9	71	61	55	50	70	61	54	50	60	54	50	59	54	50	58	53	50	48					48			
10	68	57	51	47	67	57	51	47	56	50	47	55	50	46	54	50	46	45					45			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	52036	52036	52036	52036
5°	52167	52619	52528	52172
10°	52575	54309	54139	52702
15°	53633	56589	56004	53290
20°	53819	58937	57320	52387
25°	51962	58248	54436	48573
30°	46028	53975	47737	41064
35°	35329	44037	39040	30718
40°	24281	33468	27802	19344
45°	12771	21737	15914	9061
50°	4282	9818	6118	2936
55°	305	2128	669	75
60°	48	62	48	38
65°	28	28	28	17
70°	21	21	21	21
75°	28	28	28	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°
 Vertical Angle: 45°
 Luminance: 21967 cd/sqm



TEST NUMBER: P776202

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQC-2500lm-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.3	7.1
10°-20°	626.5	21.5
20°-30°	913.6	31.3
30°-40°	787.2	27.0
40°-50°	346.1	11.9
50°-60°	34.5	1.2
60°-70°	0.6	0.0
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°	1748.5	59.9
0°-40°	2535.7	86.9
0°-60°	2916.3	100.0
0°-90°	2917.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2917.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2170	2170	2170	2170	2170	
5°	2167	2186	2182	2168	2167	207
15°	2160	2280	2256	2147	2160	609
25°	1964	2202	2058	1836	1964	891
35°	1207	1504	1334	1049	1207	749
45°	377	641	469	267	377	301
55°	7	51	16	2	7	25
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P776202

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQC-2500lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1
0.5°	2170.6	2171.6	2172.1	2170.3	2171.1	2169.8	2168.8	2169.3	2170.1	2170.8	2170.8
1°	2170.6	2171.8	2172.3	2171.6	2171.8	2170.6	2169.0	2169.6	2170.3	2170.8	2170.8
1.5°	2170.6	2171.6	2172.1	2172.3	2173.3	2171.8	2169.8	2170.3	2170.3	2170.6	2170.3
2°	2170.1	2170.8	2171.8	2173.1	2174.8	2173.6	2171.8	2171.6	2171.1	2170.6	2170.1
2.5°	2170.1	2170.8	2172.1	2173.1	2176.1	2176.1	2173.6	2173.1	2172.6	2170.8	2169.3
3°	2169.3	2170.6	2172.3	2173.8	2177.1	2176.8	2176.1	2175.8	2173.6	2171.1	2168.8
3.5°	2168.8	2170.1	2173.1	2175.3	2178.3	2178.6	2178.1	2177.8	2175.1	2171.8	2168.3
4°	2168.0	2169.3	2173.8	2177.1	2180.6	2181.1	2180.6	2180.8	2177.3	2172.3	2167.8
4.5°	2167.8	2169.3	2175.1	2179.3	2183.1	2184.1	2183.6	2183.3	2179.8	2173.3	2166.8
5°	2167.3	2169.3	2176.6	2182.3	2186.1	2186.8	2187.1	2187.1	2182.3	2174.3	2166.8
5.5°	2166.8	2170.3	2178.6	2185.8	2189.1	2190.1	2190.4	2191.4	2185.6	2175.6	2166.5
6°	2166.0	2170.8	2180.8	2189.1	2192.6	2193.6	2194.4	2195.4	2188.9	2177.3	2166.5
6.5°	2165.0	2171.6	2183.8	2193.1	2196.6	2197.1	2198.6	2199.6	2192.9	2179.8	2166.8
7°	2164.0	2172.3	2187.1	2197.6	2200.9	2200.9	2202.6	2204.4	2197.1	2182.1	2166.8
7.5°	2163.3	2173.3	2190.9	2202.9	2205.1	2205.1	2206.4	2208.7	2201.4	2184.8	2166.8
8°	2163.0	2174.8	2194.6	2208.2	2209.7	2209.7	2211.4	2214.2	2206.2	2187.4	2167.0
8.5°	2162.5	2177.3	2198.9	2213.7	2214.4	2214.9	2216.2	2219.2	2210.9	2189.9	2167.5
9°	2162.0	2180.1	2203.9	2219.9	2219.9	2219.9	2220.7	2224.7	2215.4	2192.6	2167.8
9.5°	2160.8	2182.3	2209.4	2225.7	2224.7	2225.2	2225.2	2229.7	2219.7	2195.1	2167.8
10°	2159.3	2184.6	2213.9	2232.0	2230.5	2231.0	2230.2	2234.0	2223.5	2197.6	2169.0
10.5°	2158.3	2186.3	2217.9	2237.5	2236.0	2236.5	2235.0	2238.0	2227.2	2201.1	2172.1
11°	2158.3	2188.6	2221.7	2241.8	2241.3	2241.5	2239.2	2241.8	2231.2	2206.2	2174.6
11.5°	2159.3	2191.9	2225.7	2245.8	2245.3	2245.8	2243.3	2246.0	2237.2	2210.7	2175.3
12°	2159.8	2196.1	2231.2	2250.3	2248.3	2250.3	2248.3	2252.3	2242.0	2214.9	2174.6
12.5°	2159.8	2200.4	2238.0	2255.3	2252.3	2255.0	2254.3	2258.3	2245.8	2215.7	2173.3
13°	2159.5	2202.9	2244.8	2261.6	2257.5	2260.8	2261.8	2263.1	2247.5	2216.9	2173.1
13.5°	2160.0	2204.4	2251.0	2267.3	2264.3	2267.3	2270.1	2265.8	2248.8	2219.4	2172.3
14°	2161.0	2205.7	2255.5	2271.3	2270.8	2274.6	2276.8	2267.6	2251.0	2221.9	2170.6
14.5°	2161.3	2207.4	2260.6	2273.6	2275.8	2280.1	2282.4	2270.3	2253.8	2223.7	2167.5
15°	2160.5	2208.7	2266.3	2275.6	2279.6	2283.9	2288.4	2274.6	2256.0	2225.0	2164.3
15.5°	2158.5	2208.7	2272.1	2279.6	2283.6	2286.6	2296.4	2278.1	2256.5	2225.2	2160.5
16°	2156.5	2206.7	2277.4	2283.1	2288.6	2290.6	2305.4	2280.4	2256.8	2226.2	2157.3
16.5°	2154.3	2203.6	2280.9	2284.6	2293.9	2295.4	2313.5	2281.1	2257.3	2227.0	2153.5
17°	2151.8	2200.1	2283.1	2284.6	2297.9	2298.7	2319.5	2280.1	2258.3	2227.7	2148.2
17.5°	2149.0	2197.1	2284.4	2283.9	2300.4	2300.2	2323.2	2279.1	2259.3	2226.7	2141.5
18°	2145.0	2193.9	2284.4	2282.9	2302.2	2299.9	2325.2	2278.4	2260.8	2222.2	2132.2
18.5°	2138.2	2190.6	2283.4	2281.6	2303.9	2299.9	2326.5	2277.1	2261.3	2214.9	2121.9
19°	2129.4	2186.3	2281.6	2280.6	2305.9	2300.9	2327.5	2275.6	2259.3	2203.6	2112.1
19.5°	2119.7	2180.8	2278.4	2279.4	2307.7	2302.7	2326.0	2271.6	2254.0	2191.6	2101.9
20°	2109.1	2173.6	2271.8	2277.4	2309.7	2304.4	2322.0	2265.1	2246.3	2178.3	2090.8
20.5°	2097.6	2165.5	2262.1	2273.6	2310.4	2304.9	2314.0	2257.5	2237.7	2163.8	2079.3
21°	2085.1	2157.0	2249.5	2267.3	2308.7	2302.9	2302.9	2248.8	2226.2	2146.7	2067.3



TEST NUMBER: P776202

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	2044.5	2125.7	2204.6	2241.3	2285.6	2293.1	2266.8	2221.4	2176.3	2089.8	2024.6
23°	2029.4	2111.4	2187.6	2232.0	2273.6	2286.9	2253.0	2209.9	2155.5	2068.3	2007.3
23.5°	2013.9	2094.8	2168.3	2220.2	2259.1	2278.9	2238.2	2197.1	2133.2	2045.7	1988.0
24°	1998.1	2076.0	2147.2	2207.7	2241.5	2267.8	2222.7	2182.1	2108.4	2021.6	1965.7
24.5°	1981.5	2054.5	2123.4	2193.4	2221.7	2254.5	2206.4	2164.8	2083.6	1996.1	1941.2
25°	1964.0	2031.4	2098.4	2176.1	2201.6	2237.7	2188.1	2144.2	2057.5	1968.2	1913.1
25.5°	1945.2	2006.8	2070.8	2156.3	2180.3	2218.4	2168.3	2121.4	2031.7	1940.7	1885.3
26°	1925.4	1980.8	2042.2	2133.2	2158.3	2196.4	2145.7	2095.8	2002.8	1909.6	1857.2
26.5°	1902.8	1953.4	2012.1	2107.6	2134.7	2171.3	2121.9	2067.5	1973.3	1878.2	1829.1
27°	1878.0	1923.1	1981.3	2078.3	2111.6	2143.7	2094.8	2036.2	1942.9	1847.2	1801.0
27.5°	1848.7	1891.3	1950.9	2045.5	2088.3	2115.4	2066.8	2003.8	1907.1	1816.1	1767.7
28°	1816.8	1857.9	1920.4	2009.1	2064.0	2082.3	2035.4	1970.0	1871.2	1785.0	1734.8
28.5°	1782.0	1823.6	1890.5	1970.7	2038.9	2048.2	2002.3	1937.9	1835.4	1751.9	1701.5
29°	1744.4	1789.7	1858.7	1932.4	2012.4	2012.9	1969.5	1901.3	1799.5	1717.8	1666.6
29.5°	1704.0	1754.6	1826.1	1894.0	1982.8	1976.0	1936.9	1864.4	1763.4	1683.4	1631.6
30°	1662.4	1720.0	1791.7	1854.9	1949.4	1936.4	1899.8	1827.6	1724.1	1646.6	1595.2
30.5°	1616.5	1686.0	1754.1	1816.8	1907.6	1896.8	1862.7	1791.0	1685.5	1609.7	1557.3
31°	1569.9	1652.6	1714.0	1778.5	1865.7	1857.2	1825.8	1748.9	1648.3	1571.1	1515.0
31.5°	1522.0	1617.3	1673.2	1740.6	1823.8	1817.6	1788.7	1706.3	1610.0	1532.3	1470.4
32°	1476.1	1577.9	1632.6	1703.8	1782.0	1777.7	1742.4	1662.4	1572.4	1493.2	1425.0
32.5°	1429.2	1536.3	1592.9	1665.4	1736.6	1739.9	1694.7	1619.5	1535.5	1454.6	1380.6
33°	1384.4	1492.4	1555.1	1625.5	1688.7	1699.0	1645.6	1577.1	1498.4	1414.9	1334.2
33.5°	1339.5	1445.8	1517.7	1585.2	1641.6	1658.1	1597.2	1532.5	1458.8	1373.8	1289.8
34°	1295.6	1397.1	1481.1	1544.3	1594.7	1612.0	1551.6	1487.6	1419.0	1331.0	1244.5
34.5°	1251.5	1351.0	1442.0	1501.4	1549.1	1563.1	1505.7	1443.5	1377.6	1285.1	1201.1
35°	1206.9	1305.1	1400.4	1458.1	1504.4	1511.7	1460.1	1401.4	1333.7	1239.0	1156.2
35.5°	1164.5	1260.5	1356.5	1414.9	1459.8	1461.1	1412.2	1357.8	1287.8	1192.8	1113.6
36°	1118.1	1216.9	1309.7	1371.1	1414.7	1409.2	1365.3	1315.4	1242.5	1147.5	1069.2
36.5°	1071.7	1172.5	1260.3	1326.4	1368.3	1358.8	1316.7	1271.5	1198.1	1105.1	1025.6
37°	1027.1	1127.1	1213.4	1280.8	1322.9	1309.2	1270.5	1228.9	1155.0	1063.2	981.5
37.5°	983.5	1083.8	1168.8	1238.2	1278.3	1264.0	1226.7	1187.3	1113.4	1020.8	938.1
38°	941.6	1040.9	1125.4	1194.6	1234.4	1222.2	1186.1	1147.5	1069.5	978.0	896.0
38.5°	902.8	997.3	1083.8	1152.5	1191.8	1182.3	1147.2	1104.6	1024.6	935.1	854.9
39°	860.7	952.9	1040.9	1109.3	1151.2	1144.2	1109.6	1061.5	979.2	892.5	814.8
39.5°	818.3	909.3	997.0	1062.7	1110.8	1106.1	1071.2	1015.3	933.1	847.9	773.9
40°	775.7	866.4	951.7	1012.3	1069.2	1069.0	1032.4	970.7	888.2	803.0	732.3
40.5°	733.3	823.8	907.0	963.7	1026.9	1029.4	992.0	925.8	841.8	757.1	689.9
41°	690.9	780.9	860.4	918.1	982.7	989.3	951.2	883.2	798.5	712.0	647.3
41.5°	650.3	738.1	813.8	874.9	938.9	949.6	910.0	840.8	755.9	668.1	604.7
42°	610.7	695.4	766.9	832.1	894.0	908.8	867.7	799.7	713.2	624.2	561.8
42.5°	571.8	652.1	720.3	789.2	850.1	867.7	825.3	757.6	671.1	582.4	520.0
43°	531.2	608.4	673.6	746.6	807.8	824.5	781.7	715.7	628.5	542.0	479.3
43.5°	491.4	563.8	630.5	703.5	764.6	780.7	737.8	673.4	586.4	502.4	439.2



TEST NUMBER: P776202

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	376.6	438.2	507.2	579.1	641.0	647.8	610.5	552.0	469.3	389.1	329.2
45.5°	340.4	400.4	470.3	539.3	599.2	603.9	568.1	513.2	432.5	354.5	296.8
46°	305.9	365.0	433.2	500.1	557.1	560.6	526.7	474.6	398.4	321.9	266.7
46.5°	272.8	330.7	397.4	460.8	516.9	518.2	486.4	436.0	363.8	290.6	242.4
47°	241.7	298.3	362.8	423.2	477.3	476.1	446.5	398.6	331.4	262.7	218.1
47.5°	212.8	268.2	329.4	386.1	439.0	436.2	406.9	362.3	299.6	238.9	193.5
48°	187.0	240.7	296.8	351.5	401.1	398.4	370.3	327.9	269.8	214.8	169.2
48.5°	165.0	214.8	266.5	318.9	363.0	361.5	334.4	294.8	243.2	191.0	150.4
49°	145.9	191.0	238.7	287.6	326.7	325.9	300.3	266.7	216.9	167.2	133.4
49.5°	129.4	169.2	212.3	256.7	291.8	292.6	271.8	238.7	190.3	147.2	118.1
50°	114.8	149.4	187.8	226.4	263.2	264.2	242.9	210.6	164.0	129.4	103.8
50.5°	101.0	130.9	165.2	198.1	234.7	236.2	214.3	182.5	142.4	112.3	89.5
51°	88.0	113.6	143.9	171.7	206.3	207.8	185.8	154.4	123.1	96.5	76.2
51.5°	76.5	98.8	124.8	148.2	177.7	179.8	156.9	133.4	105.8	81.5	64.4
52°	64.9	84.2	107.0	127.4	149.7	151.4	134.9	113.8	89.5	67.7	52.6
52.5°	53.4	72.2	90.8	108.1	128.4	128.6	114.6	96.5	74.2	55.4	42.6
53°	41.9	60.2	77.7	91.0	108.8	108.8	96.5	80.5	60.7	44.9	32.8
53.5°	30.3	47.9	64.9	77.7	91.5	91.0	80.0	65.9	49.4	34.6	22.8
54°	17.8	35.8	52.1	64.7	75.2	74.5	65.4	53.6	38.4	24.3	13.0
54.5°	9.0	23.1	39.4	51.4	60.7	60.7	52.9	43.6	27.1	14.0	3.5
55°	7.3	12.3	26.6	38.4	50.9	49.4	42.9	33.3	16.0	4.0	2.5
55.5°	5.5	10.3	14.5	25.1	41.4	38.4	32.8	23.3	5.3	2.8	2.0
56°	3.8	8.0	6.5	13.0	31.6	27.3	23.1	13.3	3.0	2.3	1.8
56.5°	2.3	6.0	5.0	5.5	22.1	16.0	13.0	3.3	2.5	2.0	1.5
57°	2.0	4.0	4.0	4.3	12.3	5.0	3.3	2.5	2.0	1.8	1.3
57.5°	1.8	2.0	3.0	3.5	2.8	2.8	2.5	2.3	1.8	1.5	1.3
58°	1.5	1.8	1.8	2.5	2.3	2.3	2.0	2.0	1.5	1.3	1.0
58.5°	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8	1.5	1.3	1.0
59°	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.0	1.0
59.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.3	1.3	1.0	0.8
60°	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	0.8
60.5°	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.0	0.8	0.8
61°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8
61.5°	0.8	1.0	0.8	0.8	1.0	1.0	1.0	1.0	0.8	0.8	0.8
62°	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.5
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5
63°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5
63.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5
64°	0.5	0.8	0.5	0.5	0.8	0.8	0.8	0.8	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
66°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3



TEST NUMBER: P776202

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3
68°	0.5	0.5	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3
68.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	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	0.3	0.3	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	0.0
74°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
75.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	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	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: P776202

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQC-2500lm-3500K

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: P776202

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1
0.5°	2169.6	2171.1	2169.6	2168.8	2169.3	2170.6
1°	2169.6	2170.8	2170.1	2169.0	2170.1	2170.6
1.5°	2169.3	2170.8	2170.3	2169.6	2170.1	2170.6
2°	2168.8	2170.6	2170.6	2170.3	2170.3	2170.1
2.5°	2167.8	2170.1	2171.1	2171.1	2170.6	2170.1
3°	2167.0	2169.6	2171.6	2172.3	2171.1	2169.3
3.5°	2166.0	2169.3	2172.3	2172.6	2171.1	2168.8
4°	2165.0	2169.0	2172.6	2173.6	2171.1	2168.0
4.5°	2163.8	2168.0	2173.1	2173.8	2170.8	2167.8
5°	2162.8	2167.5	2173.1	2173.8	2170.6	2167.3
5.5°	2162.0	2166.8	2172.6	2173.8	2169.6	2166.8
6°	2161.0	2166.0	2172.3	2173.3	2169.3	2166.0
6.5°	2159.3	2165.3	2172.3	2173.3	2168.8	2165.0
7°	2158.0	2164.8	2172.6	2173.6	2168.3	2164.0
7.5°	2156.3	2164.0	2173.6	2174.6	2168.0	2163.3
8°	2154.5	2163.8	2173.6	2175.1	2168.3	2163.0
8.5°	2152.5	2163.0	2173.3	2175.1	2168.0	2162.5
9°	2150.0	2162.3	2173.6	2175.1	2167.0	2162.0
9.5°	2148.0	2163.0	2175.6	2175.6	2166.3	2160.8
10°	2147.2	2164.5	2178.3	2178.1	2166.3	2159.3
10.5°	2147.7	2165.5	2180.8	2181.1	2167.5	2158.3
11°	2147.2	2165.0	2182.6	2183.1	2169.3	2158.3
11.5°	2145.7	2163.5	2183.3	2184.3	2169.6	2159.3
12°	2143.7	2161.8	2184.6	2184.8	2168.5	2159.8
12.5°	2143.5	2161.0	2187.6	2187.9	2167.5	2159.8
13°	2143.5	2160.5	2191.6	2191.6	2167.0	2159.5
13.5°	2143.0	2159.3	2195.1	2194.4	2167.0	2160.0
14°	2141.5	2156.3	2196.4	2196.1	2165.5	2161.0
14.5°	2138.7	2151.5	2197.1	2196.6	2162.5	2161.3
15°	2136.2	2146.7	2197.4	2197.1	2158.5	2160.5
15.5°	2133.2	2142.0	2197.4	2197.4	2155.0	2158.5
16°	2130.2	2136.7	2196.1	2197.1	2151.0	2156.5
16.5°	2127.2	2130.2	2192.1	2194.9	2147.0	2154.3
17°	2121.4	2121.2	2184.6	2189.4	2141.5	2151.8
17.5°	2113.1	2110.4	2173.6	2180.8	2134.0	2149.0
18°	2102.9	2098.9	2159.8	2169.6	2125.2	2145.0
18.5°	2090.8	2088.1	2144.5	2156.8	2115.1	2138.2
19°	2078.8	2076.8	2127.2	2142.0	2105.1	2129.4
19.5°	2066.0	2065.3	2107.9	2125.4	2095.3	2119.7
20°	2052.0	2053.0	2086.6	2106.1	2085.3	2109.1
20.5°	2037.7	2040.7	2063.3	2085.3	2074.8	2097.6
21°	2021.9	2026.9	2037.7	2061.5	2064.0	2085.1



TEST NUMBER: P776202

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1974.0	1975.8	1956.0	1983.0	2025.9	2044.5
23°	1956.7	1952.9	1925.9	1953.9	2009.9	2029.4
23.5°	1938.9	1927.4	1896.0	1923.9	1991.8	2013.9
24°	1920.4	1898.8	1865.0	1893.3	1970.0	1998.1
24.5°	1902.3	1868.7	1833.1	1861.7	1944.9	1981.5
25°	1879.0	1835.9	1800.0	1829.9	1916.3	1964.0
25.5°	1855.7	1802.3	1768.9	1797.8	1886.0	1945.2
26°	1832.6	1768.4	1737.6	1764.4	1853.7	1925.4
26.5°	1809.0	1734.1	1703.0	1731.3	1820.3	1902.8
27°	1776.2	1698.7	1669.2	1697.5	1785.7	1878.0
27.5°	1740.6	1663.9	1635.6	1662.6	1750.9	1848.7
28°	1699.7	1629.5	1600.7	1627.0	1715.8	1816.8
28.5°	1659.1	1595.2	1564.6	1592.7	1680.7	1782.0
29°	1617.8	1559.3	1527.5	1557.8	1644.8	1744.4
29.5°	1576.6	1523.5	1490.7	1521.7	1606.5	1704.0
30°	1533.3	1483.1	1455.1	1485.9	1567.6	1662.4
30.5°	1488.9	1441.5	1419.2	1448.5	1526.8	1616.5
31°	1444.3	1398.9	1383.1	1412.9	1484.6	1569.9
31.5°	1399.4	1356.3	1347.0	1377.1	1440.3	1522.0
32°	1354.8	1310.7	1309.7	1340.0	1395.9	1476.1
32.5°	1309.9	1267.3	1272.3	1300.4	1350.8	1429.2
33°	1265.0	1224.7	1231.9	1259.0	1305.6	1384.4
33.5°	1222.4	1182.8	1187.3	1216.4	1260.3	1339.5
34°	1179.3	1140.2	1140.4	1171.8	1219.7	1295.6
34.5°	1135.7	1096.6	1092.0	1125.6	1176.8	1251.5
35°	1090.3	1049.4	1047.2	1079.0	1133.4	1206.9
35.5°	1044.7	1003.0	1001.8	1032.9	1088.0	1164.5
36°	1000.5	957.2	958.7	988.0	1043.2	1118.1
36.5°	957.2	910.5	913.8	944.1	994.5	1071.7
37°	916.3	868.9	869.7	901.5	950.1	1027.1
37.5°	876.7	827.3	825.8	857.6	906.8	983.5
38°	835.6	785.4	781.7	813.8	865.4	941.6
38.5°	792.7	743.8	737.8	769.9	823.8	902.8
39°	748.1	702.2	693.7	726.0	782.2	860.7
39.5°	706.0	660.1	651.8	682.2	740.6	818.3
40°	664.4	618.0	610.0	641.3	698.9	775.7
40.5°	625.7	579.1	568.1	600.4	656.8	733.3
41°	586.9	541.0	530.0	560.1	617.7	690.9
41.5°	549.0	502.9	490.1	520.5	577.4	650.3
42°	509.4	466.3	454.8	482.3	539.0	610.7
42.5°	470.8	430.5	419.7	445.5	500.9	571.8
43°	432.7	394.9	386.8	410.6	464.5	531.2
43.5°	396.1	359.8	355.5	377.6	427.7	491.4



TEST NUMBER: P776202

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	294.3	267.2	271.0	287.8	321.9	376.6
45.5°	266.7	239.9	246.2	261.7	290.3	340.4
46°	239.4	214.3	222.9	236.9	260.2	305.9
46.5°	212.1	191.0	200.3	213.6	231.4	272.8
47°	184.8	170.0	180.0	192.0	205.3	241.7
47.5°	157.4	150.7	160.4	171.0	181.8	212.8
48°	140.4	133.4	142.4	151.9	160.7	187.0
48.5°	125.6	118.1	125.3	134.1	142.1	165.0
49°	112.3	104.3	109.1	117.6	125.9	145.9
49.5°	99.5	91.0	94.0	102.3	110.8	129.4
50°	87.5	78.7	81.5	87.2	97.3	114.8
50.5°	75.2	66.7	68.9	75.0	84.5	101.0
51°	63.4	54.4	56.2	62.7	73.2	88.0
51.5°	52.6	42.4	43.6	50.4	61.7	76.5
52°	42.6	30.1	31.1	38.4	50.4	64.9
52.5°	32.8	17.3	18.6	26.1	38.9	53.4
53°	23.1	8.3	9.0	14.3	25.8	41.9
53.5°	13.0	6.5	7.3	6.3	14.5	30.3
54°	3.5	4.8	5.3	5.3	6.8	17.8
54.5°	2.5	3.3	3.5	4.0	5.5	9.0
55°	2.0	1.8	1.8	3.0	4.3	7.3
55.5°	1.8	1.5	1.5	1.8	3.3	5.5
56°	1.5	1.3	1.5	1.8	2.0	3.8
56.5°	1.3	1.3	1.3	1.5	1.8	2.3
57°	1.3	1.0	1.3	1.3	1.5	2.0
57.5°	1.0	1.0	1.0	1.3	1.5	1.8
58°	1.0	1.0	1.0	1.3	1.3	1.5
58.5°	1.0	0.8	1.0	1.0	1.3	1.5
59°	0.8	0.8	0.8	1.0	1.3	1.3
59.5°	0.8	0.8	0.8	1.0	1.0	1.3
60°	0.8	0.8	0.8	0.8	1.0	1.0
60.5°	0.8	0.8	0.8	0.8	1.0	1.0
61°	0.8	0.5	0.8	0.8	0.8	1.0
61.5°	0.5	0.5	0.5	0.8	0.8	0.8
62°	0.5	0.5	0.5	0.8	0.8	0.8
62.5°	0.5	0.5	0.5	0.5	0.8	0.8
63°	0.5	0.5	0.5	0.5	0.8	0.8
63.5°	0.5	0.5	0.5	0.5	0.5	0.8
64°	0.5	0.5	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.3	0.5	0.5	0.5	0.5
65.5°	0.3	0.3	0.3	0.5	0.5	0.5
66°	0.3	0.3	0.3	0.5	0.5	0.5



TEST NUMBER: P776202

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.3	0.3	0.3	0.3	0.3	0.5
68°	0.3	0.3	0.3	0.3	0.3	0.5
68.5°	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	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°	0.0	0.0	0.3	0.3	0.3	0.3
74°	0.0	0.0	0.0	0.3	0.3	0.3
74.5°	0.0	0.0	0.0	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.0	0.3	0.3
75.5°	0.0	0.0	0.0	0.0	0.0	0.3
76°	0.0	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: P776202

CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQC-2500lm-3500K

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°	2072.0	2148.2	2235.5	2258.5	2303.4	2300.2	2291.6	2240.7	2212.4	2128.7	2054.2
22°	2058.7	2138.0	2220.7	2250.0	2295.4	2296.9	2279.6	2231.7	2195.4	2109.9	2040.4



44°	452.0	520.5	587.9	660.3	723.5	736.8	694.7	632.0	546.3	463.3	400.9
44.5°	413.9	478.1	547.0	618.7	682.7	692.4	651.8	590.6	507.2	424.9	364.0



66.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3
67°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3



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°	2006.6	2011.6	2012.1	2036.2	2052.2	2072.0
22°	1990.1	1994.8	1984.0	2010.1	2039.7	2058.7

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

Scaled Data Report



44°	361.5	326.9	325.7	346.2	390.6	452.0
44.5°	327.7	296.6	297.6	316.1	355.7	413.9

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

Scaled Data Report



66.5°	0.3	0.3	0.3	0.5	0.5	0.5
67°	0.3	0.3	0.3	0.3	0.5	0.5

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)