

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: P776102

Luminaire Tested: HCDJBS1525CSD-HCD6TSQC-2500lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776102
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-HCD6TSQC-2500lm-3500K
Description: 6 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

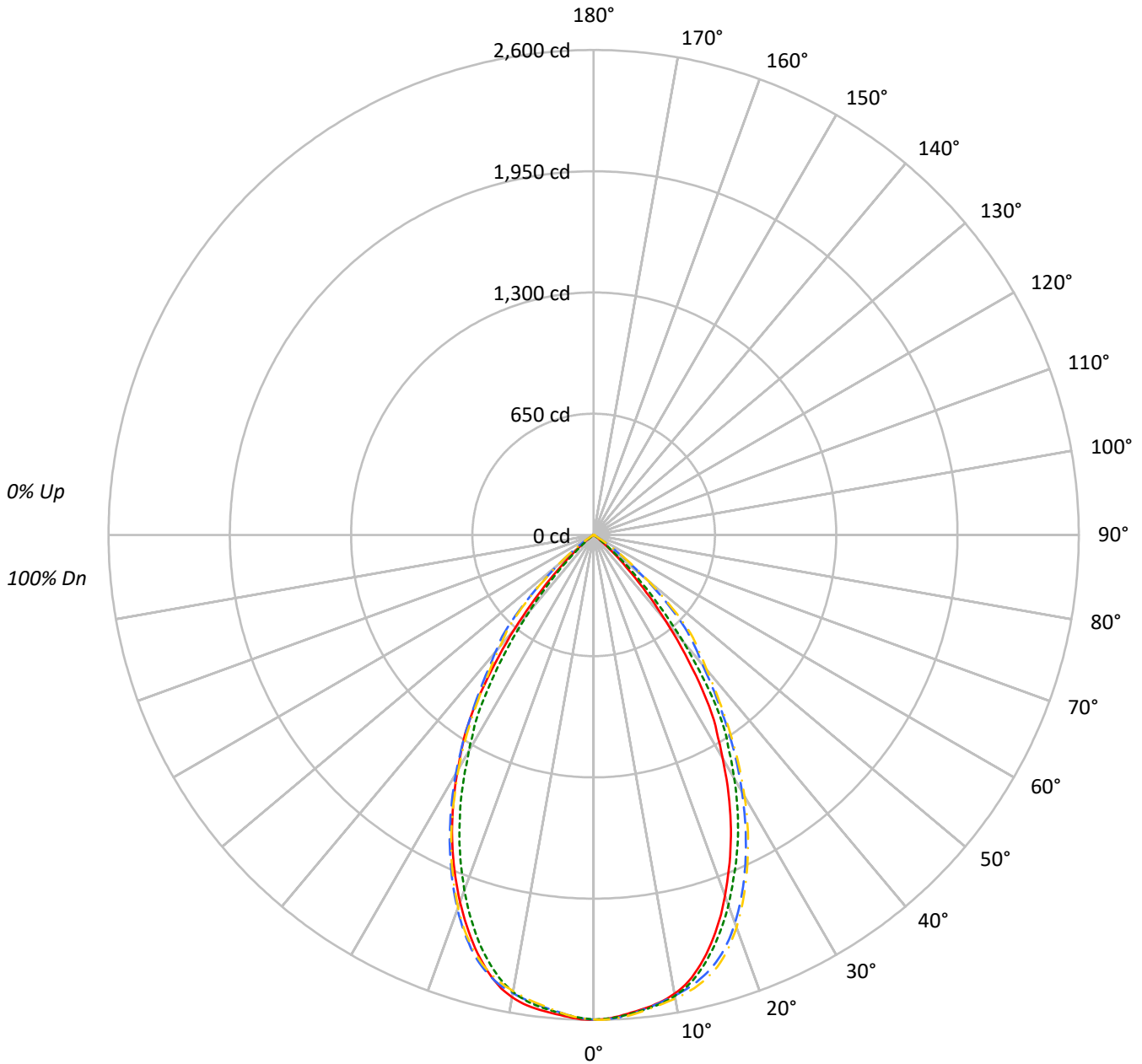
Lumens per Lamp: N/A
Luminaire Lumens: 2834.4 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.99
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')

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: P776102
CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-2500lm-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P776102

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQC-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	86	83	80	79					79			
4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72					72			
5	90	81	75	70	89	80	74	70	78	73	69	77	72	69	75	71	68	67					67			
6	85	76	69	65	84	75	69	64	73	68	64	72	67	64	71	66	63	62					62			
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57					57			
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53					53			
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49					49			
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	51	47	46					46			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	111889	111889	111889	111889
5°	110842	111080	111240	110687
10°	109195	109676	110008	108788
15°	103796	104960	104759	102646
20°	94300	96737	95931	92806
25°	82695	86709	85341	80776
30°	68643	74873	72482	66436
35°	53518	61738	57549	50180
40°	33734	41766	37118	30452
45°	16318	22304	18608	13956
50°	4957	7810	5861	3979
55°	661	601	586	510
60°	456	474	474	388
65°	387	387	408	336
70°	315	352	352	252
75°	299	299	299	250
80°	248	248	248	198
85°	148	247	148	148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 43250 cd/sqm



TEST NUMBER: P776102

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-2500lm-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.0	8.6
10°-20°	658.5	23.2
20°-30°	832.4	29.4
30°-40°	703.4	24.8
40°-50°	339.5	12.0
50°-60°	50.9	1.8
60°-70°	4.3	0.2
70°-80°	1.9	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°	1733.9	61.2
0°-40°	2437.3	86.0
0°-60°	2827.7	99.8
0°-90°	2834.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2834.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2599	2599	2599	2599	2599	
5°	2565	2570	2574	2561	2565	243
15°	2329	2355	2350	2303	2329	649
25°	1741	1825	1796	1700	1741	792
35°	1018	1175	1095	955	1018	622
45°	268	366	306	229	268	218
55°	9	8	8	7	9	17
65°	4	4	4	3	4	4
75°	2	2	2	2	2	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P776102

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQC-2500lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7
0.5°	2598.9	2599.2	2598.9	2599.2	2596.4	2598.2	2599.9	2601.4	2599.7	2597.9	2597.2
1°	2597.4	2598.7	2598.7	2599.2	2596.1	2598.7	2600.2	2600.9	2599.2	2595.6	2594.6
1.5°	2594.9	2597.2	2597.7	2598.7	2595.1	2597.7	2599.9	2599.7	2597.4	2593.1	2591.6
2°	2592.1	2595.1	2596.1	2597.7	2592.9	2596.4	2598.7	2597.2	2594.4	2589.6	2587.9
2.5°	2588.1	2592.9	2593.9	2595.6	2590.4	2594.1	2596.4	2594.4	2591.6	2585.6	2583.6
3°	2584.4	2589.1	2590.6	2593.1	2587.4	2591.4	2593.4	2590.6	2588.1	2581.1	2578.3
3.5°	2579.1	2585.1	2586.6	2589.6	2583.6	2587.6	2589.6	2587.4	2584.4	2576.6	2573.3
4°	2573.8	2580.4	2582.1	2585.4	2579.1	2584.1	2585.4	2583.1	2580.4	2571.8	2567.3
4.5°	2568.8	2574.8	2576.8	2580.9	2574.8	2579.3	2581.1	2579.3	2577.6	2567.1	2561.5
5°	2564.6	2569.6	2570.8	2575.8	2570.1	2574.6	2576.1	2575.8	2573.8	2562.6	2555.8
5.5°	2559.8	2564.6	2565.1	2570.3	2565.8	2569.8	2571.1	2571.8	2570.1	2557.8	2550.5
6°	2554.8	2559.8	2558.3	2564.3	2561.3	2565.1	2566.1	2567.6	2566.1	2552.8	2545.8
6.5°	2549.5	2555.0	2552.3	2558.5	2556.5	2560.3	2560.5	2563.1	2562.8	2547.8	2540.0
7°	2544.8	2549.5	2546.3	2553.0	2551.5	2555.0	2555.5	2558.8	2558.3	2542.0	2534.2
7.5°	2538.2	2543.7	2540.0	2547.0	2546.3	2549.5	2550.3	2553.8	2553.3	2535.7	2528.2
8°	2532.5	2538.0	2534.2	2540.7	2540.2	2544.0	2545.3	2548.8	2547.8	2529.2	2522.2
8.5°	2524.9	2531.5	2527.7	2534.2	2534.0	2537.5	2540.0	2543.0	2541.7	2522.2	2516.2
9°	2516.4	2524.7	2521.2	2527.5	2526.4	2530.7	2534.7	2536.5	2534.5	2514.4	2509.7
9.5°	2507.1	2516.7	2514.9	2519.9	2518.2	2523.9	2529.2	2530.0	2525.7	2505.6	2502.4
10°	2497.6	2507.9	2507.9	2512.4	2508.6	2515.9	2523.7	2521.2	2516.2	2495.6	2494.6
10.5°	2487.3	2498.9	2500.9	2504.1	2499.1	2506.9	2517.7	2512.2	2506.1	2485.6	2487.6
11°	2475.1	2489.3	2493.6	2494.9	2488.3	2497.1	2511.2	2501.6	2494.1	2474.8	2479.1
11.5°	2461.0	2478.8	2486.1	2485.6	2476.6	2487.3	2504.1	2491.6	2481.1	2462.0	2469.5
12°	2446.2	2467.3	2477.3	2475.1	2463.0	2476.8	2496.6	2479.6	2465.8	2448.2	2459.0
12.5°	2429.9	2454.0	2468.3	2464.3	2447.7	2464.3	2489.3	2466.5	2449.2	2432.9	2448.0
13°	2411.9	2439.5	2458.5	2452.2	2431.4	2451.5	2480.3	2452.0	2431.7	2415.9	2434.9
13.5°	2392.3	2423.9	2448.0	2440.0	2413.6	2436.4	2470.5	2436.4	2412.9	2398.3	2421.7
14°	2372.3	2407.4	2436.9	2425.9	2394.8	2420.9	2459.5	2419.4	2392.6	2379.8	2406.6
14.5°	2351.2	2389.6	2424.7	2410.1	2375.3	2403.6	2448.0	2401.1	2371.8	2360.2	2391.1
15°	2328.6	2370.3	2411.4	2393.1	2354.7	2385.8	2435.9	2382.5	2350.2	2339.7	2373.3
15.5°	2304.8	2350.7	2397.3	2375.8	2333.6	2367.2	2422.4	2363.2	2327.6	2319.6	2354.7
16°	2280.5	2329.6	2382.3	2357.7	2311.3	2348.4	2407.4	2343.4	2304.3	2297.3	2334.4
16.5°	2255.2	2308.1	2365.2	2338.2	2288.8	2328.6	2390.8	2322.1	2280.5	2274.7	2312.6
17°	2229.9	2285.5	2347.7	2317.9	2265.5	2307.6	2372.8	2299.6	2255.4	2251.2	2289.5
17.5°	2202.5	2261.9	2328.6	2297.0	2241.4	2286.3	2353.2	2277.2	2228.9	2227.8	2267.0
18°	2176.0	2238.6	2308.1	2276.0	2215.8	2264.5	2332.1	2254.2	2203.0	2202.5	2241.4
18.5°	2148.4	2214.1	2286.5	2253.7	2190.5	2241.9	2310.3	2230.1	2176.5	2177.0	2215.3
19°	2119.5	2188.7	2263.2	2230.9	2164.9	2218.6	2286.8	2205.3	2149.4	2151.1	2189.0
19.5°	2089.2	2162.9	2239.6	2206.8	2138.8	2194.8	2262.7	2180.5	2121.5	2125.8	2163.2
20°	2058.1	2135.8	2214.6	2183.5	2111.3	2170.2	2237.9	2154.6	2093.7	2098.0	2133.6
20.5°	2027.0	2109.5	2188.7	2159.2	2082.9	2145.4	2211.8	2128.3	2065.1	2070.4	2105.0
21°	1994.7	2081.4	2162.2	2134.3	2054.4	2119.0	2184.7	2101.7	2035.8	2043.3	2075.4



TEST NUMBER: P776102

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1903.9	1991.7	2078.4	2055.9	1968.6	2038.3	2101.5	2020.3	1948.1	1956.6	1984.9
23°	1872.1	1961.3	2049.1	2028.3	1941.5	2009.5	2071.4	1992.2	1917.7	1928.0	1953.1
23.5°	1839.0	1931.5	2019.0	2000.7	1912.4	1980.9	2042.3	1964.1	1887.4	1897.2	1921.2
24°	1806.9	1902.7	1988.4	1972.1	1883.4	1952.8	2012.0	1935.3	1857.0	1866.3	1889.4
24.5°	1774.1	1873.1	1957.8	1943.5	1854.3	1926.0	1981.1	1904.7	1826.7	1835.2	1857.5
25°	1740.7	1842.2	1926.5	1915.5	1825.2	1896.2	1948.8	1874.3	1796.4	1804.4	1825.7
25.5°	1706.6	1810.2	1894.9	1887.6	1796.1	1866.6	1917.2	1843.8	1764.0	1775.1	1793.9
26°	1672.0	1778.1	1861.8	1858.3	1765.8	1836.7	1885.9	1813.2	1731.9	1742.7	1757.8
26.5°	1637.2	1745.0	1828.7	1827.7	1734.2	1806.9	1854.3	1782.8	1698.3	1710.1	1723.9
27°	1602.1	1712.6	1795.6	1797.6	1702.6	1779.6	1822.7	1750.5	1665.2	1677.3	1688.6
27.5°	1565.7	1678.8	1761.3	1767.5	1670.8	1748.7	1791.1	1717.9	1631.6	1644.4	1653.7
28°	1529.1	1645.9	1727.7	1736.4	1638.7	1716.6	1756.3	1685.6	1597.6	1612.1	1617.4
28.5°	1492.0	1611.1	1692.1	1705.6	1606.6	1685.1	1722.7	1652.7	1562.7	1579.0	1583.0
29°	1455.1	1578.0	1657.2	1673.0	1573.5	1653.2	1687.3	1618.9	1528.6	1544.9	1547.9
29.5°	1418.0	1542.9	1622.6	1640.4	1540.4	1622.6	1651.5	1585.3	1492.8	1512.1	1513.1
30°	1380.7	1509.6	1589.3	1609.6	1506.0	1589.3	1615.6	1551.7	1457.9	1478.2	1476.2
30.5°	1346.1	1473.4	1554.7	1576.7	1471.9	1557.2	1582.0	1518.1	1423.8	1444.4	1440.9
31°	1312.0	1438.6	1519.6	1545.9	1438.9	1524.3	1547.4	1484.2	1392.0	1409.8	1403.8
31.5°	1275.1	1402.7	1484.7	1513.1	1407.5	1493.8	1511.8	1449.6	1356.4	1376.4	1367.1
32°	1242.8	1367.6	1450.6	1480.5	1373.2	1459.7	1476.0	1416.3	1326.0	1344.1	1329.8
32.5°	1215.5	1331.8	1415.3	1446.6	1339.8	1427.6	1440.1	1382.2	1292.2	1313.2	1292.9
33°	1183.9	1299.2	1378.9	1415.3	1313.5	1394.2	1403.0	1351.1	1258.8	1279.9	1256.1
33.5°	1144.8	1266.4	1343.1	1382.9	1282.2	1365.1	1367.4	1317.8	1221.0	1250.1	1219.5
34°	1106.2	1232.0	1307.7	1351.1	1248.1	1331.3	1330.8	1285.4	1181.1	1218.5	1183.9
34.5°	1062.0	1201.4	1271.9	1319.3	1213.0	1297.7	1294.7	1257.1	1139.5	1186.6	1148.3
35°	1018.2	1175.1	1236.8	1287.4	1174.6	1270.6	1258.8	1222.7	1094.9	1152.0	1112.9
35.5°	975.0	1145.3	1200.2	1254.8	1135.2	1244.3	1224.0	1190.9	1049.2	1115.2	1078.8
36°	933.2	1108.2	1164.6	1229.5	1091.6	1209.4	1189.4	1155.0	1003.4	1075.1	1045.0
36.5°	887.0	1072.6	1130.2	1197.7	1047.5	1178.9	1155.8	1116.4	956.7	1034.9	1012.6
37°	845.7	1030.4	1095.9	1166.1	1001.1	1142.5	1121.7	1076.6	912.3	993.1	981.0
37.5°	804.5	989.8	1062.5	1133.7	957.2	1105.7	1089.4	1034.9	869.2	950.7	950.7
38°	763.2	949.7	1028.9	1097.6	912.1	1065.5	1058.0	992.3	826.4	908.3	920.6
38.5°	722.1	911.1	997.3	1060.0	869.2	1025.9	1027.7	948.2	785.5	866.0	892.5
39°	679.9	871.7	965.8	1019.7	826.9	983.6	998.6	906.1	744.4	825.6	866.0
39.5°	639.3	832.4	935.7	978.3	785.2	941.4	969.5	864.2	702.5	786.5	842.7
40°	600.2	793.0	908.3	936.9	743.1	899.3	942.2	824.1	660.4	748.6	818.8
40.5°	561.3	753.6	885.3	893.8	702.0	858.7	916.4	785.2	619.3	711.5	794.3
41°	525.0	714.5	862.2	854.4	660.9	817.8	894.0	746.6	578.9	673.2	778.5
41.5°	489.6	675.4	839.1	814.8	620.0	779.2	871.5	708.5	539.8	635.8	756.9
42°	454.5	636.8	816.1	775.5	579.7	740.6	846.4	670.7	502.4	598.2	731.3
42.5°	419.7	598.2	793.0	736.1	540.0	703.5	827.6	632.6	467.1	561.3	706.3
43°	386.6	562.1	770.2	698.7	502.9	664.6	811.8	594.2	432.2	525.2	673.4
43.5°	354.8	527.5	746.1	661.4	466.8	626.0	787.2	556.1	398.9	490.1	640.1



TEST NUMBER: P776102

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	268.0	426.2	665.6	550.1	366.3	516.0	710.3	452.5	305.6	392.9	538.5
45.5°	241.2	394.1	636.3	514.7	335.2	480.9	679.4	420.7	276.8	361.8	504.4
46°	215.9	362.8	605.0	480.1	305.4	447.3	646.8	388.6	252.7	331.7	471.3
46.5°	191.8	332.4	573.6	447.3	276.0	415.4	612.7	358.0	228.7	302.9	439.0
47°	168.7	303.1	541.5	415.2	251.7	383.1	576.4	328.4	204.6	276.3	407.9
47.5°	146.9	275.3	509.2	384.6	227.1	352.5	540.8	299.9	180.5	252.5	376.8
48°	127.1	248.2	475.6	354.8	202.8	322.7	506.7	272.3	156.7	228.7	347.7
48.5°	109.6	223.6	442.3	325.4	178.5	294.3	473.6	249.0	137.1	204.8	319.4
49°	94.0	199.1	409.2	296.8	154.2	265.8	441.5	225.6	119.3	181.3	292.1
49.5°	83.7	176.0	378.8	269.8	134.6	241.4	410.2	202.3	102.8	157.4	265.8
50°	74.0	154.2	348.5	244.2	116.6	216.9	380.6	179.0	87.5	138.1	242.7
50.5°	63.9	134.6	320.7	219.9	99.8	192.5	352.0	155.7	74.2	119.6	219.6
51°	53.9	116.1	292.6	195.8	84.5	168.2	324.7	135.4	61.4	103.0	196.6
51.5°	44.1	99.5	267.0	173.5	71.0	147.4	296.8	117.8	50.4	87.0	173.2
52°	36.6	84.7	241.7	152.9	58.4	127.9	269.8	100.5	42.1	73.0	153.9
52.5°	29.6	74.7	218.6	133.6	46.9	109.6	246.5	85.5	33.8	59.9	135.4
53°	22.6	64.7	196.1	115.3	39.1	93.0	223.1	70.7	25.6	48.9	118.3
53.5°	15.8	54.7	174.2	98.8	31.3	77.7	199.6	58.4	17.0	40.6	102.5
54°	10.8	44.6	153.7	83.2	23.3	64.4	176.3	46.9	9.0	32.3	88.5
54.5°	9.5	37.4	135.6	71.0	15.5	52.1	152.9	39.1	8.3	24.1	75.5
55°	8.8	30.1	118.1	58.7	8.0	43.4	134.6	31.1	7.8	16.0	63.7
55.5°	7.8	23.3	102.5	46.4	7.5	34.6	116.3	23.3	7.5	8.3	53.4
56°	7.0	16.5	88.3	34.3	7.3	26.1	99.8	15.3	7.3	7.5	44.4
56.5°	6.8	11.0	77.7	24.8	7.0	17.6	84.5	7.5	7.0	7.3	36.6
57°	6.5	10.0	67.2	16.5	6.8	8.8	71.0	7.0	6.8	7.0	31.8
57.5°	6.3	9.0	56.9	9.8	6.5	7.3	58.4	7.0	6.5	6.8	27.1
58°	6.0	8.0	46.4	8.8	6.3	7.0	47.6	6.8	6.5	6.5	22.3
58.5°	5.8	7.3	35.9	7.8	6.0	6.8	38.4	6.5	6.3	6.3	17.8
59°	5.8	6.3	29.1	7.0	5.8	6.5	33.1	6.3	6.0	6.0	13.0
59.5°	5.5	6.0	23.6	6.0	5.8	6.3	27.8	6.0	5.8	6.0	10.5
60°	5.3	5.8	19.1	5.8	5.5	6.0	22.6	5.8	5.5	5.8	8.8
60.5°	5.0	5.8	15.5	5.8	5.3	5.8	17.6	5.8	5.5	5.5	7.3
61°	5.0	5.5	12.5	5.5	5.0	5.8	12.3	5.5	5.3	5.3	6.3
61.5°	4.8	5.3	10.3	5.3	5.0	5.5	10.0	5.3	5.0	5.3	5.5
62°	4.8	5.3	9.3	5.3	4.8	5.3	8.3	5.3	4.8	5.0	5.3
62.5°	4.5	5.0	8.3	5.0	4.5	5.3	7.0	5.0	4.8	4.8	5.0
63°	4.3	4.8	7.0	4.8	4.5	5.0	6.0	4.8	4.5	4.8	4.8
63.5°	4.3	4.8	6.0	4.8	4.3	4.8	5.5	4.8	4.5	4.5	4.5
64°	4.0	4.5	5.0	4.5	4.3	4.8	5.0	4.5	4.3	4.3	4.5
64.5°	4.0	4.3	4.8	4.5	4.0	4.5	5.0	4.5	4.0	4.3	4.3
65°	3.8	4.3	4.8	4.3	3.8	4.3	4.8	4.3	4.0	4.0	4.3
65.5°	3.8	4.0	4.5	4.0	3.8	4.3	4.5	4.0	3.8	4.0	4.0
66°	3.5	4.0	4.3	4.0	3.5	4.0	4.5	4.0	3.8	3.8	4.0



TEST NUMBER: P776102

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	3.3	3.5	4.0	3.5	3.3	3.8	4.0	3.5	3.3	3.5	3.5
68°	3.0	3.5	3.8	3.5	3.0	3.5	3.8	3.5	3.3	3.3	3.3
68.5°	3.0	3.3	3.8	3.3	3.0	3.3	3.8	3.3	3.0	3.0	3.3
69°	2.8	3.3	3.5	3.3	2.8	3.3	3.5	3.3	3.0	3.0	3.0
69.5°	2.8	3.0	3.5	3.3	2.8	3.0	3.5	3.0	2.8	2.8	3.0
70°	2.5	3.0	3.3	3.0	2.8	3.0	3.3	3.0	2.8	2.8	2.8
70.5°	2.5	2.8	3.3	3.0	2.5	3.0	3.3	2.8	2.5	2.8	2.8
71°	2.5	2.8	3.0	2.8	2.5	2.8	3.0	2.8	2.5	2.5	2.5
71.5°	2.3	2.5	3.0	2.8	2.3	2.8	3.0	2.5	2.3	2.5	2.5
72°	2.3	2.5	2.8	2.5	2.3	2.5	2.8	2.5	2.3	2.3	2.3
72.5°	2.0	2.3	2.8	2.5	2.3	2.5	2.8	2.5	2.3	2.3	2.3
73°	2.0	2.3	2.5	2.5	2.0	2.3	2.5	2.3	2.0	2.0	2.3
73.5°	2.0	2.3	2.5	2.3	2.0	2.3	2.5	2.3	2.0	2.0	2.0
74°	1.8	2.0	2.3	2.3	2.0	2.3	2.3	2.0	2.0	2.0	2.0
74.5°	1.8	2.0	2.3	2.0	1.8	2.0	2.3	2.0	1.8	1.8	1.8
75°	1.8	1.8	2.0	2.0	1.8	2.0	2.3	2.0	1.8	1.8	1.8
75.5°	1.5	1.8	2.0	2.0	1.8	2.0	2.0	1.8	1.8	1.8	1.5
76°	1.5	1.8	2.0	1.8	1.8	1.8	2.0	1.8	1.5	1.5	1.5
76.5°	1.5	1.5	1.8	1.8	1.5	1.8	1.8	1.8	1.5	1.5	1.5
77°	1.5	1.5	1.8	1.8	1.5	1.8	1.8	1.5	1.5	1.5	1.3
77.5°	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3
78°	1.3	1.3	1.5	1.5	1.3	1.5	1.5	1.3	1.3	1.3	1.0
78.5°	1.3	1.3	1.3	1.5	1.3	1.5	1.5	1.3	1.3	1.3	1.0
79°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0
79.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0	0.8
80°	1.0	1.0	1.0	1.3	1.0	1.3	1.3	1.0	1.0	1.0	0.8
80.5°	1.0	1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.0	0.8	0.8
81°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8
81.5°	0.8	0.8	0.8	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.5
82°	0.8	0.8	0.8	1.0	0.8	1.0	0.8	0.8	0.8	0.5	0.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5
83°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5
83.5°	0.5	0.5	0.5	0.8	0.8	0.8	0.5	0.5	0.5	0.3	0.5
84°	0.5	0.5	0.5	0.8	0.5	0.8	0.5	0.5	0.5	0.3	0.3
84.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.3	0.3
85°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
85.5°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
86°	0.3	0.3	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.0	0.3
86.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
87°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776102

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-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: P776102

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7
0.5°	2596.1	2594.9	2596.1	2597.4	2599.9	2598.9
1°	2593.1	2593.1	2593.9	2594.6	2597.9	2597.4
1.5°	2590.1	2590.4	2590.9	2591.6	2595.9	2594.9
2°	2586.4	2587.1	2586.9	2587.9	2593.1	2592.1
2.5°	2582.1	2583.1	2582.9	2583.1	2588.6	2588.1
3°	2577.3	2578.8	2578.1	2578.1	2584.6	2584.4
3.5°	2572.8	2573.8	2572.6	2572.6	2579.1	2579.1
4°	2568.1	2569.8	2567.3	2566.6	2573.3	2573.8
4.5°	2563.6	2565.6	2562.1	2559.5	2567.6	2568.8
5°	2558.5	2561.0	2557.0	2552.5	2561.8	2564.6
5.5°	2553.0	2556.8	2551.5	2546.0	2556.3	2559.8
6°	2547.0	2552.0	2545.8	2539.7	2550.8	2554.8
6.5°	2541.2	2546.8	2539.7	2533.7	2544.8	2549.5
7°	2534.5	2541.0	2533.5	2527.7	2538.5	2544.8
7.5°	2527.5	2534.7	2526.2	2521.2	2531.7	2538.2
8°	2519.7	2527.7	2518.4	2514.2	2524.9	2532.5
8.5°	2510.9	2519.4	2510.2	2507.1	2517.4	2524.9
9°	2500.9	2509.4	2501.1	2499.6	2509.4	2516.4
9.5°	2490.6	2499.1	2491.3	2492.4	2500.4	2507.1
10°	2479.1	2488.3	2480.6	2484.1	2491.3	2497.6
10.5°	2466.3	2475.1	2468.5	2475.6	2481.6	2487.3
11°	2452.7	2461.3	2456.0	2466.5	2471.0	2475.1
11.5°	2438.2	2445.5	2442.5	2456.5	2459.8	2461.0
12°	2422.4	2428.4	2427.2	2445.7	2447.2	2446.2
12.5°	2405.4	2410.1	2410.9	2433.7	2432.9	2429.9
13°	2387.3	2391.3	2393.1	2421.4	2417.9	2411.9
13.5°	2368.2	2370.8	2374.8	2408.1	2401.8	2392.3
14°	2348.4	2348.9	2355.5	2393.8	2384.3	2372.3
14.5°	2328.1	2326.4	2335.2	2378.3	2366.2	2351.2
15°	2306.6	2302.8	2313.6	2361.0	2346.2	2328.6
15.5°	2284.5	2278.5	2291.0	2342.7	2325.6	2304.8
16°	2261.2	2253.4	2268.0	2322.9	2304.1	2280.5
16.5°	2237.4	2226.8	2244.1	2302.1	2281.8	2255.2
17°	2213.1	2200.3	2220.3	2280.2	2258.9	2229.9
17.5°	2188.2	2172.9	2195.0	2256.4	2234.4	2202.5
18°	2162.2	2145.6	2168.7	2232.4	2209.8	2176.0
18.5°	2137.3	2116.5	2142.1	2207.0	2184.5	2148.4
19°	2110.0	2086.7	2115.5	2180.7	2158.7	2119.5
19.5°	2082.9	2056.4	2087.9	2153.4	2132.1	2089.2
20°	2053.9	2025.5	2060.1	2125.3	2104.7	2058.1
20.5°	2025.8	1993.4	2029.8	2094.5	2077.2	2027.0
21°	1996.2	1962.3	2000.7	2065.9	2047.8	1994.7

TEST NUMBER: P776102

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1906.9	1867.8	1908.4	1971.6	1955.8	1903.9
23°	1877.1	1835.5	1878.4	1941.3	1924.2	1872.1
23.5°	1847.0	1802.9	1848.3	1907.9	1893.9	1839.0
24°	1816.9	1769.0	1815.4	1874.6	1864.6	1806.9
24.5°	1786.8	1734.9	1782.6	1839.5	1834.2	1774.1
25°	1753.5	1700.3	1749.7	1806.9	1800.9	1740.7
25.5°	1719.4	1665.7	1715.9	1771.8	1768.3	1706.6
26°	1685.6	1629.9	1682.0	1735.9	1734.7	1672.0
26.5°	1651.7	1594.8	1648.2	1697.8	1702.1	1637.2
27°	1616.9	1557.9	1614.4	1663.5	1667.0	1602.1
27.5°	1581.5	1520.8	1578.5	1626.9	1632.9	1565.7
28°	1546.4	1483.5	1543.1	1589.5	1597.6	1529.1
28.5°	1510.6	1445.9	1508.0	1553.4	1562.7	1492.0
29°	1474.2	1408.0	1471.9	1517.8	1527.1	1455.1
29.5°	1437.6	1371.4	1435.8	1483.2	1492.8	1418.0
30°	1401.2	1336.3	1399.2	1447.9	1456.4	1380.7
30.5°	1365.4	1302.2	1363.1	1412.0	1420.5	1346.1
31°	1329.3	1265.4	1327.3	1375.2	1384.2	1312.0
31.5°	1295.7	1233.5	1291.7	1337.8	1348.8	1275.1
32°	1262.1	1204.7	1258.6	1300.5	1312.7	1242.8
32.5°	1227.0	1166.8	1225.5	1263.3	1277.1	1215.5
33°	1196.4	1130.7	1189.6	1226.7	1244.8	1183.9
33.5°	1168.1	1086.6	1161.1	1189.1	1211.0	1144.8
34°	1131.7	1041.5	1132.0	1152.0	1176.6	1106.2
34.5°	1098.1	997.8	1094.6	1115.2	1148.8	1062.0
35°	1056.8	954.7	1059.3	1079.1	1120.9	1018.2
35.5°	1015.1	913.9	1017.1	1043.7	1086.1	975.0
36°	974.0	871.2	975.8	1009.9	1052.2	933.2
36.5°	933.9	828.4	935.9	975.8	1012.9	887.0
37°	894.0	785.5	895.1	943.7	972.0	845.7
37.5°	854.9	742.9	856.4	912.6	930.7	804.5
38°	815.8	700.0	817.6	885.8	886.8	763.2
38.5°	775.7	658.1	779.0	858.9	850.4	722.1
39°	735.1	617.3	740.4	832.1	813.8	679.9
39.5°	694.7	578.9	701.2	805.3	777.5	639.3
40°	654.9	541.8	661.1	778.5	740.9	600.2
40.5°	617.0	506.2	623.0	756.2	701.7	561.3
41°	580.2	470.1	585.2	736.8	663.1	525.0
41.5°	544.6	435.5	550.3	715.5	624.5	489.6
42°	509.7	400.6	515.7	696.0	587.7	454.5
42.5°	475.6	369.8	483.1	675.4	552.6	419.7
43°	442.3	339.0	450.3	644.1	518.7	386.6
43.5°	410.2	309.6	417.9	614.5	485.4	354.8



TEST NUMBER: P776102

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	318.7	229.2	326.9	515.5	390.6	268.0
45.5°	290.1	204.6	298.6	485.4	360.0	241.2
46°	263.0	181.3	272.0	455.3	330.9	215.9
46.5°	238.9	158.7	246.7	425.5	302.6	191.8
47°	214.9	138.1	222.4	395.6	275.8	168.7
47.5°	191.0	119.1	198.3	368.3	250.2	146.9
48°	167.0	102.5	176.3	340.2	225.4	127.1
48.5°	146.2	88.0	155.7	313.4	201.3	109.6
49°	126.6	78.5	136.1	287.8	179.5	94.0
49.5°	108.8	68.9	118.3	263.3	158.2	83.7
50°	93.5	59.4	101.8	239.7	138.1	74.0
50.5°	80.0	49.9	87.0	217.6	119.3	63.9
51°	68.2	40.6	77.2	197.1	103.3	53.9
51.5°	57.9	33.3	67.4	177.5	88.8	44.1
52°	49.1	26.3	57.7	159.0	78.7	36.6
52.5°	41.4	19.6	47.6	141.9	68.7	29.6
53°	34.8	13.0	38.1	125.4	58.9	22.6
53.5°	28.3	8.5	30.8	110.1	48.9	15.8
54°	21.8	7.8	23.8	96.0	39.1	10.8
54.5°	15.3	7.3	17.3	83.2	31.8	9.5
55°	9.0	6.8	11.3	71.5	24.8	8.8
55.5°	6.8	6.3	10.0	62.9	18.1	7.8
56°	6.5	6.0	9.0	54.4	12.0	7.0
56.5°	6.3	5.8	7.8	46.1	7.8	6.8
57°	6.0	5.5	6.5	37.6	7.3	6.5
57.5°	5.8	5.3	5.3	29.1	7.0	6.3
58°	5.5	5.3	5.3	23.3	6.5	6.0
58.5°	5.5	5.0	5.0	18.6	6.0	5.8
59°	5.3	4.8	5.0	14.8	5.8	5.8
59.5°	5.0	4.8	4.8	12.0	5.8	5.5
60°	5.0	4.5	4.5	9.5	5.5	5.3
60.5°	4.8	4.3	4.5	8.5	5.3	5.0
61°	4.5	4.3	4.3	7.3	5.3	5.0
61.5°	4.5	4.0	4.3	6.0	5.0	4.8
62°	4.3	4.0	4.0	4.8	4.8	4.8
62.5°	4.3	3.8	4.0	4.5	4.8	4.5
63°	4.0	3.8	3.8	4.5	4.5	4.3
63.5°	3.8	3.5	3.8	4.3	4.5	4.3
64°	3.8	3.5	3.5	4.3	4.3	4.0
64.5°	3.5	3.3	3.5	4.0	4.0	4.0
65°	3.5	3.3	3.3	4.0	4.0	3.8
65.5°	3.3	3.0	3.3	3.8	3.8	3.8
66°	3.3	3.0	3.0	3.8	3.8	3.5



TEST NUMBER: P776102

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	3.0	2.5	2.8	3.3	3.3	3.3
68°	2.8	2.5	2.8	3.3	3.3	3.0
68.5°	2.8	2.5	2.5	3.0	3.0	3.0
69°	2.5	2.3	2.5	3.0	3.0	2.8
69.5°	2.5	2.3	2.5	2.8	3.0	2.8
70°	2.3	2.0	2.3	2.8	2.8	2.5
70.5°	2.3	2.0	2.3	2.8	2.8	2.5
71°	2.3	2.0	2.0	2.5	2.5	2.5
71.5°	2.0	1.8	2.0	2.5	2.5	2.3
72°	2.0	1.8	2.0	2.3	2.3	2.3
72.5°	1.8	1.8	1.8	2.3	2.3	2.0
73°	1.8	1.8	1.8	2.0	2.3	2.0
73.5°	1.8	1.5	1.8	2.0	2.0	2.0
74°	1.5	1.5	1.8	2.0	2.0	1.8
74.5°	1.5	1.5	1.5	1.8	2.0	1.8
75°	1.5	1.5	1.5	1.8	1.8	1.8
75.5°	1.5	1.3	1.5	1.5	1.8	1.5
76°	1.3	1.3	1.3	1.5	1.5	1.5
76.5°	1.3	1.3	1.3	1.5	1.5	1.5
77°	1.3	1.3	1.3	1.3	1.5	1.5
77.5°	1.0	1.0	1.3	1.3	1.3	1.3
78°	1.0	1.0	1.0	1.3	1.3	1.3
78.5°	1.0	1.0	1.0	1.0	1.3	1.3
79°	1.0	1.0	1.0	1.0	1.3	1.0
79.5°	0.8	0.8	1.0	1.0	1.0	1.0
80°	0.8	0.8	0.8	0.8	1.0	1.0
80.5°	0.8	0.8	0.8	0.8	1.0	1.0
81°	0.8	0.8	0.8	0.8	0.8	0.8
81.5°	0.5	0.8	0.8	0.8	0.8	0.8
82°	0.5	0.5	0.5	0.5	0.8	0.8
82.5°	0.5	0.5	0.5	0.5	0.5	0.8
83°	0.5	0.5	0.5	0.5	0.5	0.5
83.5°	0.5	0.5	0.5	0.5	0.5	0.5
84°	0.3	0.5	0.5	0.3	0.5	0.5
84.5°	0.3	0.3	0.3	0.3	0.3	0.5
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°	0.0	0.3	0.3	0.3	0.3	0.3
87°	0.0	0.0	0.0	0.0	0.0	0.3
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: P776102

CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQC-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°	1964.1	2052.1	2134.6	2109.0	2025.5	2092.2	2157.9	2075.2	2007.2	2015.7	2046.8
22°	1934.0	2022.3	2106.5	2082.7	1996.7	2065.4	2130.1	2048.3	1979.1	1985.4	2015.7



44°	324.2	493.7	726.1	624.3	431.5	588.4	765.2	520.2	366.8	456.6	606.7
44.5°	295.3	459.3	696.0	586.7	398.9	552.6	739.4	486.1	335.5	424.2	572.6



66.5°	3.5	3.8	4.3	3.8	3.5	4.0	4.3	3.8	3.5	3.8	3.8
67°	3.3	3.8	4.0	3.8	3.3	3.8	4.3	3.8	3.5	3.5	3.5



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°	1966.4	1932.0	1969.9	2035.6	2017.7	1964.1
22°	1937.0	1900.9	1939.8	2004.7	1986.2	1934.0



44°	378.6	280.8	385.8	581.9	453.8	324.2
44.5°	347.2	254.7	356.0	548.8	421.7	295.3

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

Scaled Data Report



66.5°	3.3	2.8	3.0	3.5	3.5	3.5
67°	3.0	2.8	3.0	3.5	3.5	3.3

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)