

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: P775742

Luminaire Tested: HCDJBL510CSD-HCD62TRC-1000lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B055-HCD62TRC)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD62TRC-1000lm-3500K
Description: 6 INCH ROUND NARROW SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

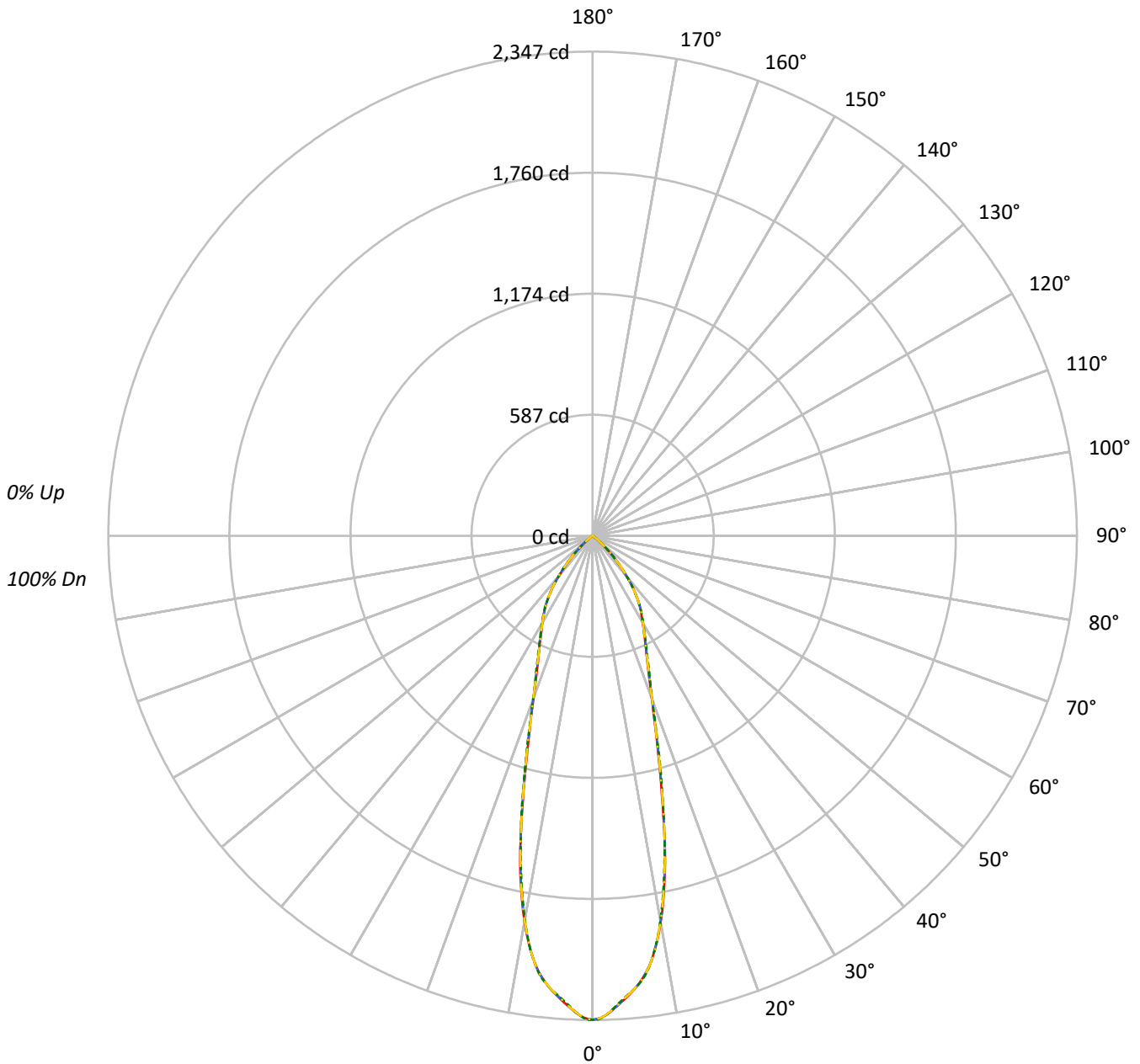
Lumens per Lamp: N/A
Luminaire Lumens: 1200.9 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.54 / 0.57
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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: P775742
CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P775742

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-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								
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88								
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82								
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77								
5	94	86	80	76	92	85	80	76	83	79	75	81	77	74	80	77	74	72								
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68								
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64								
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61								
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57								
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	128608	128608	128608	128608
5°	121979	121846	121979	121846
10°	105799	105192	105799	105192
15°	73587	74456	73587	74456
20°	48835	49354	48835	49354
25°	37121	37647	37121	37647
30°	30695	31068	30695	31068
35°	25685	25712	25685	25712
40°	18299	18585	18299	18585
45°	10257	10769	10257	10769
50°	3488	4153	3488	4153
55°	248	535	248	535
60°	44	44	44	44
65°	26	26	26	26
70°	16	16	16	16
75°	21	21	21	21
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 10769 cd/sqm



TEST NUMBER: P775742

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	16.8
10°-20°	360.1	30.0
20°-30°	287.5	23.9
30°-40°	235.3	19.6
40°-50°	106.3	8.9
50°-60°	9.1	0.8
60°-70°	0.2	0.0
70°-80°	0.1	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°	849.9	70.8
0°-40°	1085.2	90.4
0°-60°	1200.6	100.0
0°-90°	1200.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1200.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2346	2346	2346	2346	2346	
5°	2217	2214	2217	2214	2217	202
15°	1297	1312	1297	1312	1297	359
25°	614	622	614	622	614	286
35°	384	384	384	384	384	235
45°	132	139	132	139	132	104
55°	3	6	3	6	3	8
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P775742

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2346.0	2346.0	2346.0	2346.0	2346.0	2346.0	2346.0	2346.0	2346.0	2346.0	2346.0
0.5°	2343.2	2343.2	2343.2	2343.6	2347.2	2343.6	2343.2	2343.2	2343.2	2343.2	2343.2
1°	2337.0	2337.0	2336.7	2336.8	2339.2	2336.8	2336.7	2337.0	2337.0	2337.0	2336.7
1.5°	2326.8	2326.7	2325.9	2325.4	2326.9	2325.4	2325.9	2326.7	2326.8	2326.7	2325.9
2°	2314.0	2313.3	2312.2	2311.0	2311.2	2311.0	2312.2	2313.3	2314.0	2313.3	2312.2
2.5°	2298.6	2298.2	2296.5	2294.5	2293.9	2294.5	2296.5	2298.2	2298.6	2298.2	2296.5
3°	2282.5	2281.9	2280.1	2277.3	2276.1	2277.3	2280.1	2281.9	2282.5	2281.9	2280.1
3.5°	2266.3	2265.6	2263.4	2260.6	2259.1	2260.6	2263.4	2265.6	2266.3	2265.6	2263.4
4°	2250.2	2249.1	2247.0	2244.8	2243.4	2244.8	2247.0	2249.1	2250.2	2249.1	2247.0
4.5°	2233.6	2232.6	2231.1	2229.6	2228.5	2229.6	2231.1	2232.6	2233.6	2232.6	2231.1
5°	2216.6	2215.9	2215.0	2214.4	2214.2	2214.4	2215.0	2215.9	2216.6	2215.9	2215.0
5.5°	2198.3	2197.9	2197.9	2198.3	2199.1	2198.3	2197.9	2197.9	2198.3	2197.9	2197.9
6°	2178.4	2178.4	2179.0	2180.7	2181.6	2180.7	2179.0	2178.4	2178.4	2178.4	2179.0
6.5°	2156.2	2156.8	2158.0	2159.8	2161.0	2159.8	2158.0	2156.8	2156.2	2156.8	2158.0
7°	2131.1	2132.1	2133.2	2135.1	2136.5	2135.1	2133.2	2132.1	2131.1	2132.1	2133.2
7.5°	2102.6	2103.0	2104.4	2105.8	2106.6	2105.8	2104.4	2103.0	2102.6	2103.0	2104.4
8°	2070.0	2070.2	2071.0	2071.9	2072.3	2071.9	2071.0	2070.2	2070.0	2070.2	2071.0
8.5°	2032.8	2032.8	2032.9	2032.7	2032.0	2032.7	2032.9	2032.8	2032.8	2032.8	2032.9
9°	1992.1	1992.0	1991.0	1989.6	1989.0	1989.6	1991.0	1992.0	1992.1	1992.0	1991.0
9.5°	1947.7	1947.4	1945.0	1943.0	1941.3	1943.0	1945.0	1947.4	1947.7	1947.4	1945.0
10°	1900.6	1899.5	1896.1	1892.3	1889.7	1892.3	1896.1	1899.5	1900.6	1899.5	1896.1
10.5°	1850.4	1848.2	1844.4	1839.7	1836.0	1839.7	1844.4	1848.2	1850.4	1848.2	1844.4
11°	1796.8	1795.0	1790.0	1786.2	1782.7	1786.2	1790.0	1795.0	1796.8	1795.0	1790.0
11.5°	1741.3	1739.6	1735.4	1729.8	1727.1	1729.8	1735.4	1739.6	1741.3	1739.6	1735.4
12°	1683.8	1682.4	1677.3	1672.1	1668.5	1672.1	1677.3	1682.4	1683.8	1682.4	1677.3
12.5°	1623.4	1621.1	1616.9	1612.0	1608.9	1612.0	1616.9	1621.1	1623.4	1621.1	1616.9
13°	1560.2	1559.0	1555.2	1552.3	1550.4	1552.3	1555.2	1559.0	1560.2	1559.0	1555.2
13.5°	1492.4	1493.2	1492.3	1491.2	1490.3	1491.2	1492.3	1493.2	1492.4	1493.2	1492.3
14°	1425.4	1426.9	1428.0	1429.5	1430.6	1429.5	1428.0	1426.9	1425.4	1426.9	1428.0
14.5°	1359.1	1361.4	1365.2	1369.0	1371.6	1369.0	1365.2	1361.4	1359.1	1361.4	1365.2
15°	1296.6	1298.5	1303.7	1308.5	1311.9	1308.5	1303.7	1298.5	1296.6	1298.5	1303.7
15.5°	1237.6	1240.0	1244.6	1250.0	1254.0	1250.0	1244.6	1240.0	1237.6	1240.0	1244.6
16°	1182.7	1184.3	1188.3	1194.8	1199.4	1194.8	1188.3	1184.3	1182.7	1184.3	1188.3
16.5°	1130.2	1131.4	1136.3	1142.1	1146.6	1142.1	1136.3	1131.4	1130.2	1131.4	1136.3
17°	1079.9	1081.3	1085.6	1091.4	1096.1	1091.4	1085.6	1081.3	1079.9	1081.3	1085.6
17.5°	1032.3	1033.6	1037.9	1042.6	1046.8	1042.6	1037.9	1033.6	1032.3	1033.6	1037.9
18°	987.8	988.9	991.8	996.4	1000.5	996.4	991.8	988.9	987.8	988.9	991.8
18.5°	946.1	946.5	949.4	955.0	956.2	955.0	949.4	946.5	946.1	946.5	949.4
19°	906.1	907.0	911.2	916.5	916.7	916.5	911.2	907.0	906.1	907.0	911.2
19.5°	869.1	871.4	875.3	879.8	880.2	879.8	875.3	871.4	869.1	871.4	875.3
20°	837.1	837.6	840.9	845.5	846.0	845.5	840.9	837.6	837.1	837.6	840.9
20.5°	806.5	807.3	808.9	813.1	814.1	813.1	808.9	807.3	806.5	807.3	808.9
21°	776.8	778.2	781.9	784.4	785.8	784.4	781.9	778.2	776.8	778.2	781.9



TEST NUMBER: P775742

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	703.6	704.5	709.0	713.2	717.1	713.2	709.0	704.5	703.6	704.5	709.0
23°	683.4	684.3	687.2	692.1	696.6	692.1	687.2	684.3	683.4	684.3	687.2
23.5°	664.4	665.0	667.8	671.5	676.5	671.5	667.8	665.0	664.4	665.0	667.8
24°	646.3	647.0	649.5	653.4	656.7	653.4	649.5	647.0	646.3	647.0	649.5
24.5°	629.7	630.0	631.9	636.2	638.9	636.2	631.9	630.0	629.7	630.0	631.9
25°	613.7	614.0	615.6	619.9	622.4	619.9	615.6	614.0	613.7	614.0	615.6
25.5°	598.4	598.6	600.2	604.4	606.7	604.4	600.2	598.6	598.4	598.6	600.2
26°	583.6	583.9	585.4	589.6	591.8	589.6	585.4	583.9	583.6	583.9	585.4
26.5°	569.2	569.6	571.0	574.9	577.2	574.9	571.0	569.6	569.2	569.6	571.0
27°	555.8	556.1	557.3	561.2	563.7	561.2	557.3	556.1	555.8	556.1	557.3
27.5°	543.0	543.2	544.4	547.9	550.4	547.9	544.4	543.2	543.0	543.2	544.4
28°	530.7	530.8	532.0	535.2	537.5	535.2	532.0	530.8	530.7	530.8	532.0
28.5°	518.8	518.8	520.0	522.9	525.3	522.9	520.0	518.8	518.8	518.8	520.0
29°	507.3	507.2	508.2	511.1	513.3	511.1	508.2	507.2	507.3	507.2	508.2
29.5°	495.8	495.8	497.0	499.5	501.7	499.5	497.0	495.8	495.8	495.8	497.0
30°	484.9	484.9	486.1	488.5	490.8	488.5	486.1	484.9	484.9	484.9	486.1
30.5°	474.4	474.4	475.6	477.8	480.0	477.8	475.6	474.4	474.4	474.4	475.6
31°	464.5	464.4	465.7	467.8	470.0	467.8	465.7	464.4	464.5	464.4	465.7
31.5°	454.9	454.7	455.9	457.7	459.9	457.7	455.9	454.7	454.9	454.7	455.9
32°	445.8	445.6	446.6	448.2	449.8	448.2	446.6	445.6	445.8	445.6	446.6
32.5°	436.7	436.6	437.0	438.3	439.3	438.3	437.0	436.6	436.7	436.6	437.0
33°	427.3	427.0	427.0	427.9	428.8	427.9	427.0	427.0	427.3	427.0	427.0
33.5°	417.2	416.7	416.8	417.2	418.6	417.2	416.8	416.7	417.2	416.7	416.8
34°	406.5	406.0	406.0	405.7	407.2	405.7	406.0	406.0	406.5	406.0	406.0
34.5°	395.5	394.8	395.0	394.6	395.9	394.6	395.0	394.8	395.5	394.8	395.0
35°	383.8	383.6	383.5	383.5	384.2	383.5	383.5	383.6	383.8	383.6	383.5
35.5°	372.0	371.7	371.6	372.2	372.2	372.2	371.6	371.7	372.0	371.7	371.6
36°	359.9	359.8	359.8	360.5	360.0	360.5	359.8	359.8	359.9	359.8	359.8
36.5°	347.3	347.7	347.7	348.7	347.9	348.7	347.7	347.7	347.3	347.7	347.7
37°	334.5	335.1	335.6	336.5	335.5	336.5	335.6	335.1	334.5	335.1	335.6
37.5°	322.0	322.4	323.7	323.9	323.1	323.9	323.7	322.4	322.0	322.4	323.7
38°	309.3	309.4	311.1	310.9	310.8	310.9	311.1	309.4	309.3	309.4	311.1
38.5°	296.5	296.3	298.2	297.7	298.1	297.7	298.2	296.3	296.5	296.3	298.2
39°	283.0	283.2	285.4	284.5	285.6	284.5	285.4	283.2	283.0	283.2	285.4
39.5°	269.3	270.0	272.4	271.4	272.7	271.4	272.4	270.0	269.3	270.0	272.4
40°	255.7	256.8	259.4	258.5	259.7	258.5	259.4	256.8	255.7	256.8	259.4
40.5°	242.6	243.7	246.1	245.9	246.7	245.9	246.1	243.7	242.6	243.7	246.1
41°	229.7	230.8	232.9	233.3	233.8	233.3	232.9	230.8	229.7	230.8	232.9
41.5°	217.1	218.0	219.6	220.9	221.1	220.9	219.6	218.0	217.1	218.0	219.6
42°	204.6	205.3	206.5	208.5	208.7	208.5	206.5	205.3	204.6	205.3	206.5
42.5°	192.3	192.9	193.7	196.3	196.8	196.3	193.7	192.9	192.3	192.9	193.7
43°	180.0	180.4	181.0	183.9	184.9	183.9	181.0	180.4	180.0	180.4	181.0
43.5°	167.9	168.0	168.8	171.7	173.1	171.7	168.8	168.0	167.9	168.0	168.8



TEST NUMBER: P775742

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	132.3	132.6	134.1	137.2	138.9	137.2	134.1	132.6	132.3	132.6	134.1
45.5°	121.4	121.8	123.2	126.4	127.9	126.4	123.2	121.8	121.4	121.8	123.2
46°	111.0	111.1	112.6	115.7	117.3	115.7	112.6	111.1	111.0	111.1	112.6
46.5°	100.7	100.9	102.3	105.1	107.2	105.1	102.3	100.9	100.7	100.9	102.3
47°	90.8	91.0	92.5	95.2	97.3	95.2	92.5	91.0	90.8	91.0	92.5
47.5°	80.9	81.6	83.4	85.7	88.2	85.7	83.4	81.6	80.9	81.6	83.4
48°	72.0	72.4	74.6	76.9	79.1	76.9	74.6	72.4	72.0	72.4	74.6
48.5°	63.4	63.8	66.2	68.6	70.9	68.6	66.2	63.8	63.4	63.8	66.2
49°	55.4	55.9	58.3	60.7	63.4	60.7	58.3	55.9	55.4	55.9	58.3
49.5°	47.9	48.7	51.0	53.4	56.1	53.4	51.0	48.7	47.9	48.7	51.0
50°	40.9	41.9	44.3	46.4	48.7	46.4	44.3	41.9	40.9	41.9	44.3
50.5°	34.5	36.0	38.0	39.9	41.3	39.9	38.0	36.0	34.5	36.0	38.0
51°	28.9	30.4	32.2	33.8	34.6	33.8	32.2	30.4	28.9	30.4	32.2
51.5°	24.4	25.4	26.7	28.4	29.0	28.4	26.7	25.4	24.4	25.4	26.7
52°	20.2	21.1	22.2	23.6	23.9	23.6	22.2	21.1	20.2	21.1	22.2
52.5°	16.6	17.0	18.2	19.5	19.3	19.5	18.2	17.0	16.6	17.0	18.2
53°	13.0	13.7	14.5	15.5	15.3	15.5	14.5	13.7	13.0	13.7	14.5
53.5°	9.3	10.4	11.2	11.9	11.8	11.9	11.2	10.4	9.3	10.4	11.2
54°	6.7	7.2	8.1	9.0	9.7	9.0	8.1	7.2	6.7	7.2	8.1
54.5°	4.2	4.8	5.8	6.4	7.7	6.4	5.8	4.8	4.2	4.8	5.8
55°	2.6	3.0	3.9	4.5	5.6	4.5	3.9	3.0	2.6	3.0	3.9
55.5°	1.9	1.9	2.3	2.8	3.6	2.8	2.3	1.9	1.9	1.9	2.3
56°	1.3	1.2	1.5	1.8	1.9	1.8	1.5	1.2	1.3	1.2	1.5
56.5°	0.9	0.8	1.0	1.3	1.0	1.3	1.0	0.8	0.9	0.8	1.0
57°	0.5	0.7	0.7	0.9	0.6	0.9	0.7	0.7	0.5	0.7	0.7
57.5°	0.5	0.5	0.5	0.7	0.5	0.7	0.5	0.5	0.5	0.5	0.5
58°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
58.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
59°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
59.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
62°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
64°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P775742

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
68°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
68.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75.5°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
76°	0.0	0.0	0.0	0.0	0.0	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	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: P775742

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-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: P775742

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2346.0	2346.0	2346.0	2346.0	2346.0	2346.0
0.5°	2343.6	2347.2	2343.6	2343.2	2343.2	2343.2
1°	2336.8	2339.2	2336.8	2336.7	2337.0	2337.0
1.5°	2325.4	2326.9	2325.4	2325.9	2326.7	2326.8
2°	2311.0	2311.2	2311.0	2312.2	2313.3	2314.0
2.5°	2294.5	2293.9	2294.5	2296.5	2298.2	2298.6
3°	2277.3	2276.1	2277.3	2280.1	2281.9	2282.5
3.5°	2260.6	2259.1	2260.6	2263.4	2265.6	2266.3
4°	2244.8	2243.4	2244.8	2247.0	2249.1	2250.2
4.5°	2229.6	2228.5	2229.6	2231.1	2232.6	2233.6
5°	2214.4	2214.2	2214.4	2215.0	2215.9	2216.6
5.5°	2198.3	2199.1	2198.3	2197.9	2197.9	2198.3
6°	2180.7	2181.6	2180.7	2179.0	2178.4	2178.4
6.5°	2159.8	2161.0	2159.8	2158.0	2156.8	2156.2
7°	2135.1	2136.5	2135.1	2133.2	2132.1	2131.1
7.5°	2105.8	2106.6	2105.8	2104.4	2103.0	2102.6
8°	2071.9	2072.3	2071.9	2071.0	2070.2	2070.0
8.5°	2032.7	2032.0	2032.7	2032.9	2032.8	2032.8
9°	1989.6	1989.0	1989.6	1991.0	1992.0	1992.1
9.5°	1943.0	1941.3	1943.0	1945.0	1947.4	1947.7
10°	1892.3	1889.7	1892.3	1896.1	1899.5	1900.6
10.5°	1839.7	1836.0	1839.7	1844.4	1848.2	1850.4
11°	1786.2	1782.7	1786.2	1790.0	1795.0	1796.8
11.5°	1729.8	1727.1	1729.8	1735.4	1739.6	1741.3
12°	1672.1	1668.5	1672.1	1677.3	1682.4	1683.8
12.5°	1612.0	1608.9	1612.0	1616.9	1621.1	1623.4
13°	1552.3	1550.4	1552.3	1555.2	1559.0	1560.2
13.5°	1491.2	1490.3	1491.2	1492.3	1493.2	1492.4
14°	1429.5	1430.6	1429.5	1428.0	1426.9	1425.4
14.5°	1369.0	1371.6	1369.0	1365.2	1361.4	1359.1
15°	1308.5	1311.9	1308.5	1303.7	1298.5	1296.6
15.5°	1250.0	1254.0	1250.0	1244.6	1240.0	1237.6
16°	1194.8	1199.4	1194.8	1188.3	1184.3	1182.7
16.5°	1142.1	1146.6	1142.1	1136.3	1131.4	1130.2
17°	1091.4	1096.1	1091.4	1085.6	1081.3	1079.9
17.5°	1042.6	1046.8	1042.6	1037.9	1033.6	1032.3
18°	996.4	1000.5	996.4	991.8	988.9	987.8
18.5°	955.0	956.2	955.0	949.4	946.5	946.1
19°	916.5	916.7	916.5	911.2	907.0	906.1
19.5°	879.8	880.2	879.8	875.3	871.4	869.1
20°	845.5	846.0	845.5	840.9	837.6	837.1
20.5°	813.1	814.1	813.1	808.9	807.3	806.5
21°	784.4	785.8	784.4	781.9	778.2	776.8

TEST NUMBER: P775742

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	713.2	717.1	713.2	709.0	704.5	703.6
23°	692.1	696.6	692.1	687.2	684.3	683.4
23.5°	671.5	676.5	671.5	667.8	665.0	664.4
24°	653.4	656.7	653.4	649.5	647.0	646.3
24.5°	636.2	638.9	636.2	631.9	630.0	629.7
25°	619.9	622.4	619.9	615.6	614.0	613.7
25.5°	604.4	606.7	604.4	600.2	598.6	598.4
26°	589.6	591.8	589.6	585.4	583.9	583.6
26.5°	574.9	577.2	574.9	571.0	569.6	569.2
27°	561.2	563.7	561.2	557.3	556.1	555.8
27.5°	547.9	550.4	547.9	544.4	543.2	543.0
28°	535.2	537.5	535.2	532.0	530.8	530.7
28.5°	522.9	525.3	522.9	520.0	518.8	518.8
29°	511.1	513.3	511.1	508.2	507.2	507.3
29.5°	499.5	501.7	499.5	497.0	495.8	495.8
30°	488.5	490.8	488.5	486.1	484.9	484.9
30.5°	477.8	480.0	477.8	475.6	474.4	474.4
31°	467.8	470.0	467.8	465.7	464.4	464.5
31.5°	457.7	459.9	457.7	455.9	454.7	454.9
32°	448.2	449.8	448.2	446.6	445.6	445.8
32.5°	438.3	439.3	438.3	437.0	436.6	436.7
33°	427.9	428.8	427.9	427.0	427.0	427.3
33.5°	417.2	418.6	417.2	416.8	416.7	417.2
34°	405.7	407.2	405.7	406.0	406.0	406.5
34.5°	394.6	395.9	394.6	395.0	394.8	395.5
35°	383.5	384.2	383.5	383.5	383.6	383.8
35.5°	372.2	372.2	372.2	371.6	371.7	372.0
36°	360.5	360.0	360.5	359.8	359.8	359.9
36.5°	348.7	347.9	348.7	347.7	347.7	347.3
37°	336.5	335.5	336.5	335.6	335.1	334.5
37.5°	323.9	323.1	323.9	323.7	322.4	322.0
38°	310.9	310.8	310.9	311.1	309.4	309.3
38.5°	297.7	298.1	297.7	298.2	296.3	296.5
39°	284.5	285.6	284.5	285.4	283.2	283.0
39.5°	271.4	272.7	271.4	272.4	270.0	269.3
40°	258.5	259.7	258.5	259.4	256.8	255.7
40.5°	245.9	246.7	245.9	246.1	243.7	242.6
41°	233.3	233.8	233.3	232.9	230.8	229.7
41.5°	220.9	221.1	220.9	219.6	218.0	217.1
42°	208.5	208.7	208.5	206.5	205.3	204.6
42.5°	196.3	196.8	196.3	193.7	192.9	192.3
43°	183.9	184.9	183.9	181.0	180.4	180.0
43.5°	171.7	173.1	171.7	168.8	168.0	167.9



TEST NUMBER: P775742

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	137.2	138.9	137.2	134.1	132.6	132.3
45.5°	126.4	127.9	126.4	123.2	121.8	121.4
46°	115.7	117.3	115.7	112.6	111.1	111.0
46.5°	105.1	107.2	105.1	102.3	100.9	100.7
47°	95.2	97.3	95.2	92.5	91.0	90.8
47.5°	85.7	88.2	85.7	83.4	81.6	80.9
48°	76.9	79.1	76.9	74.6	72.4	72.0
48.5°	68.6	70.9	68.6	66.2	63.8	63.4
49°	60.7	63.4	60.7	58.3	55.9	55.4
49.5°	53.4	56.1	53.4	51.0	48.7	47.9
50°	46.4	48.7	46.4	44.3	41.9	40.9
50.5°	39.9	41.3	39.9	38.0	36.0	34.5
51°	33.8	34.6	33.8	32.2	30.4	28.9
51.5°	28.4	29.0	28.4	26.7	25.4	24.4
52°	23.6	23.9	23.6	22.2	21.1	20.2
52.5°	19.5	19.3	19.5	18.2	17.0	16.6
53°	15.5	15.3	15.5	14.5	13.7	13.0
53.5°	11.9	11.8	11.9	11.2	10.4	9.3
54°	9.0	9.7	9.0	8.1	7.2	6.7
54.5°	6.4	7.7	6.4	5.8	4.8	4.2
55°	4.5	5.6	4.5	3.9	3.0	2.6
55.5°	2.8	3.6	2.8	2.3	1.9	1.9
56°	1.8	1.9	1.8	1.5	1.2	1.3
56.5°	1.3	1.0	1.3	1.0	0.8	0.9
57°	0.9	0.6	0.9	0.7	0.7	0.5
57.5°	0.7	0.5	0.7	0.5	0.5	0.5
58°	0.5	0.5	0.5	0.5	0.5	0.5
58.5°	0.4	0.4	0.4	0.4	0.4	0.4
59°	0.4	0.4	0.4	0.4	0.4	0.4
59.5°	0.4	0.4	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4
60.5°	0.3	0.3	0.3	0.3	0.3	0.3
61°	0.3	0.3	0.3	0.3	0.3	0.3
61.5°	0.3	0.3	0.3	0.3	0.3	0.3
62°	0.3	0.3	0.3	0.3	0.3	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3
63°	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.2	0.2	0.2	0.2	0.2	0.2
64°	0.2	0.2	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2
65.5°	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P775742

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.2	0.1	0.2	0.2	0.2	0.2
68°	0.1	0.1	0.1	0.1	0.1	0.1
68.5°	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1
75.5°	0.1	0.1	0.1	0.1	0.1	0.0
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: P775742

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-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

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°	748.8	751.8	756.3	759.0	759.8	759.0	756.3	751.8	748.8	751.8	756.3
22°	725.8	727.5	731.9	735.6	738.1	735.6	731.9	727.5	725.8	727.5	731.9



44°	155.5	155.9	156.8	159.7	161.5	159.7	156.8	155.9	155.5	155.9	156.8
44.5°	143.8	144.1	145.1	148.4	150.1	148.4	145.1	144.1	143.8	144.1	145.1



66.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



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°	759.0	759.8	759.0	756.3	751.8	748.8
22°	735.6	738.1	735.6	731.9	727.5	725.8

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

Scaled Data Report



44°	159.7	161.5	159.7	156.8	155.9	155.5
44.5°	148.4	150.1	148.4	145.1	144.1	143.8



66.5°	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.2	0.2	0.2	0.2

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)