

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: P776017

Luminaire Tested: HCDJBS1525CSD-HCD4TSQMB-2500lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B006-HCD4TSQMB)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD4TSQMB-2500lm-3500K
Description: 4 INCH SQUARE MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

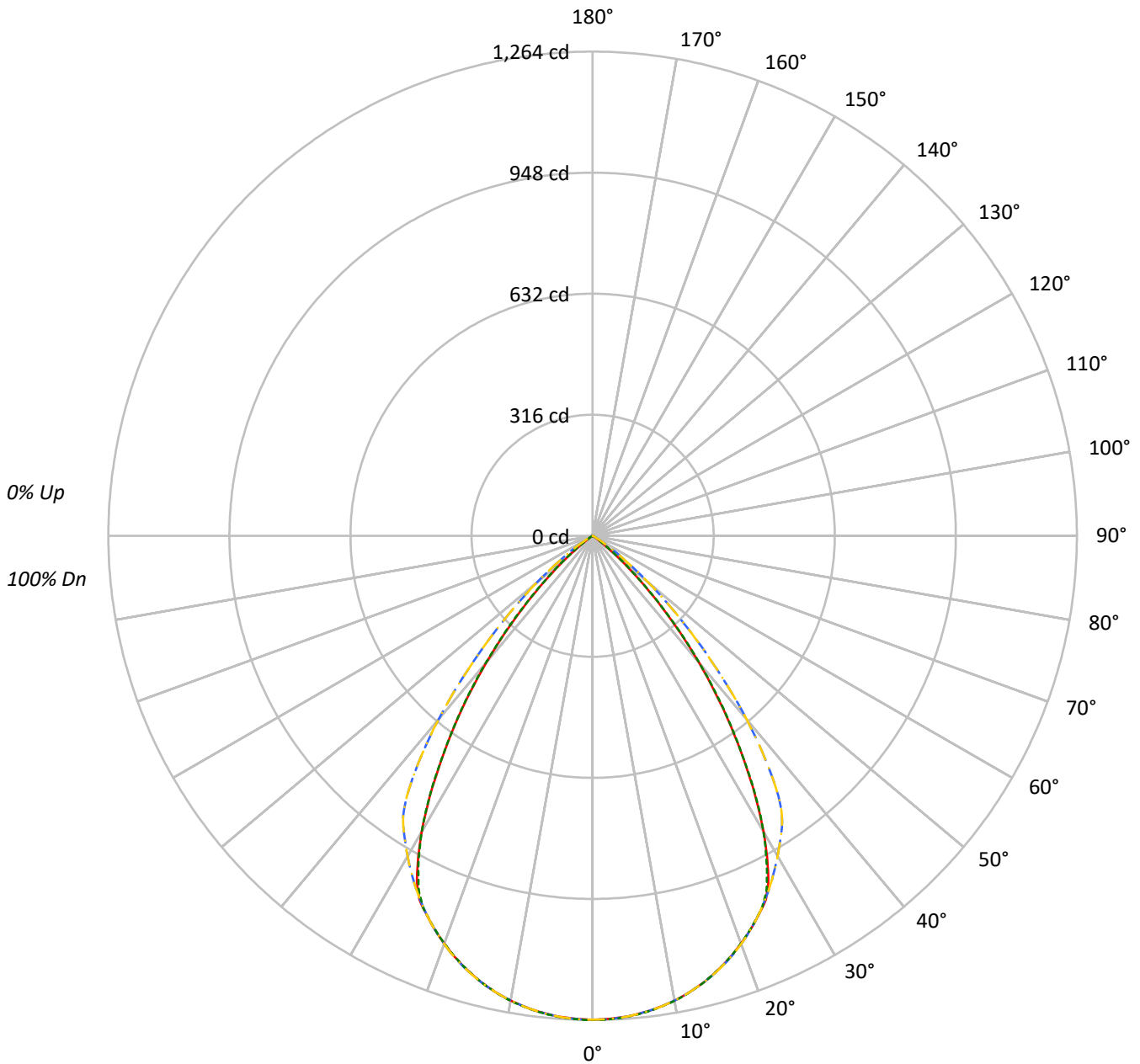
Lumens per Lamp: N/A
Luminaire Lumens: 1671.6 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.14
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')

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: P776017
CATALOG NUMBER: HCDJBL5125CSD-HCD4TSQMB-2500lm-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P776017

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-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	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92					92			
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	90	88	86	85					85			
3	100	93	88	84	98	92	87	83	89	85	81	87	83	80	84	81	79	77					77			
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71					71			
5	89	80	73	68	87	79	73	68	77	72	67	75	71	67	74	70	66	65					65			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59					59			
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55					55			
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50					50			
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47					47			
10	67	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	124867	124867	124867	124867
5°	124580	124650	124580	124650
10°	123652	123702	123652	123702
15°	121894	121915	121894	121915
20°	119154	119102	119154	119102
25°	115582	115124	115582	115124
30°	101795	101773	101795	101773
35°	79506	79771	79506	79771
40°	55496	56037	55496	56037
45°	31493	32332	31493	32332
50°	12517	13455	12517	13455
55°	1861	2378	1861	2378
60°	395	395	395	395
65°	304	304	304	304
70°	231	231	231	231
75°	191	191	191	191
80°	171	171	171	171
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 53244 cd/sqm



TEST NUMBER: P776017

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	7.1
10°-20°	335.4	20.1
20°-30°	483.1	28.9
30°-40°	455.9	27.3
40°-50°	235.0	14.1
50°-60°	41.0	2.5
60°-70°	1.5	0.1
70°-80°	0.4	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°	937.6	56.1
0°-40°	1393.5	83.4
0°-60°	1669.6	99.9
0°-90°	1671.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1671.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1263	1263	1263	1263	1263	
5°	1256	1256	1256	1256	1256	119
15°	1191	1191	1191	1191	1191	335
25°	1060	1056	1060	1056	1060	479
35°	659	661	659	661	659	409
45°	225	231	225	231	225	178
55°	11	14	11	14	11	19
65°	1	1	1	1	1	1
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P776017

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1263.3	1263.3	1263.3	1263.3	1263.3	1263.3	1263.3	1263.3	1263.3	1263.3	1263.3
0.5°	1263.1	1263.1	1263.1	1263.3	1264.1	1263.3	1263.1	1263.1	1263.1	1263.1	1263.1
1°	1262.8	1262.8	1262.8	1263.1	1263.8	1263.1	1262.8	1262.8	1262.8	1262.8	1262.8
1.5°	1262.3	1262.6	1262.6	1262.6	1263.3	1262.6	1262.6	1262.6	1262.3	1262.6	1262.6
2°	1261.8	1261.8	1262.1	1262.1	1262.8	1262.1	1262.1	1261.8	1261.8	1261.8	1262.1
2.5°	1261.1	1261.1	1261.3	1261.6	1262.1	1261.6	1261.3	1261.1	1261.1	1261.1	1261.3
3°	1260.3	1260.3	1260.6	1260.6	1261.3	1260.6	1260.6	1260.3	1260.3	1260.3	1260.6
3.5°	1259.3	1259.3	1259.6	1259.6	1260.3	1259.6	1259.6	1259.3	1259.3	1259.3	1259.6
4°	1258.3	1258.3	1258.3	1258.6	1259.1	1258.6	1258.3	1258.3	1258.3	1258.3	1258.3
4.5°	1257.1	1257.1	1257.1	1257.1	1257.8	1257.1	1257.1	1257.1	1257.1	1257.1	1257.1
5°	1255.6	1255.6	1255.6	1255.6	1256.3	1255.6	1255.6	1255.6	1255.6	1255.6	1255.6
5.5°	1253.8	1253.8	1254.1	1254.1	1254.6	1254.1	1254.1	1253.8	1253.8	1253.8	1254.1
6°	1252.1	1252.1	1252.1	1252.3	1252.8	1252.3	1252.1	1252.1	1252.1	1252.1	1252.1
6.5°	1250.1	1250.1	1250.3	1250.3	1250.8	1250.3	1250.3	1250.1	1250.1	1250.1	1250.3
7°	1248.1	1248.1	1248.1	1248.3	1248.8	1248.3	1248.1	1248.1	1248.1	1248.1	1248.1
7.5°	1245.8	1245.8	1245.8	1245.8	1246.5	1245.8	1245.8	1245.8	1245.8	1245.8	1245.8
8°	1243.3	1243.3	1243.5	1243.5	1244.0	1243.5	1243.5	1243.3	1243.3	1243.3	1243.5
8.5°	1240.8	1240.8	1240.8	1240.8	1241.3	1240.8	1240.8	1240.8	1240.8	1240.8	1240.8
9°	1238.0	1238.0	1238.0	1238.0	1238.5	1238.0	1238.0	1238.0	1238.0	1238.0	1238.0
9.5°	1235.0	1235.0	1235.0	1235.0	1235.5	1235.0	1235.0	1235.0	1235.0	1235.0	1235.0
10°	1232.0	1232.0	1232.0	1232.0	1232.5	1232.0	1232.0	1232.0	1232.0	1232.0	1232.0
10.5°	1228.8	1228.8	1228.8	1228.5	1229.3	1228.5	1228.8	1228.8	1228.8	1228.8	1228.8
11°	1225.2	1225.2	1225.5	1225.2	1225.7	1225.2	1225.5	1225.2	1225.2	1225.2	1225.5
11.5°	1221.7	1221.7	1221.7	1221.5	1222.0	1221.5	1221.7	1221.7	1221.7	1221.7	1221.7
12°	1218.0	1218.0	1218.0	1217.7	1218.2	1217.7	1218.0	1218.0	1218.0	1218.0	1218.0
12.5°	1213.7	1214.0	1214.0	1213.7	1214.0	1213.7	1214.0	1214.0	1213.7	1214.0	1214.0
13°	1209.7	1210.0	1210.0	1209.5	1210.0	1209.5	1210.0	1210.0	1209.7	1210.0	1210.0
13.5°	1205.4	1205.4	1205.7	1205.2	1205.7	1205.2	1205.7	1205.4	1205.4	1205.4	1205.7
14°	1200.9	1201.2	1201.2	1200.7	1200.9	1200.7	1201.2	1201.2	1200.9	1201.2	1201.2
14.5°	1196.2	1196.4	1196.7	1196.2	1196.2	1196.2	1196.7	1196.4	1196.2	1196.4	1196.7
15°	1191.2	1191.7	1191.7	1191.2	1191.4	1191.2	1191.7	1191.7	1191.2	1191.7	1191.7
15.5°	1186.2	1186.7	1186.7	1186.2	1186.2	1186.2	1186.7	1186.7	1186.2	1186.7	1186.7
16°	1180.9	1181.4	1181.6	1180.9	1180.9	1180.9	1181.6	1181.4	1180.9	1181.4	1181.6
16.5°	1175.6	1175.9	1176.4	1175.6	1175.4	1175.6	1176.4	1175.9	1175.6	1175.9	1176.4
17°	1170.1	1170.4	1170.9	1169.9	1169.9	1169.9	1170.9	1170.4	1170.1	1170.4	1170.9
17.5°	1164.1	1164.6	1165.1	1164.1	1164.1	1164.1	1165.1	1164.6	1164.1	1164.6	1165.1
18°	1158.3	1158.6	1159.1	1158.3	1158.1	1158.3	1159.1	1158.6	1158.3	1158.6	1159.1
18.5°	1152.3	1152.6	1153.1	1152.1	1151.8	1152.1	1153.1	1152.6	1152.3	1152.6	1153.1
19°	1145.8	1146.3	1146.8	1145.8	1145.3	1145.8	1146.8	1146.3	1145.8	1146.3	1146.8
19.5°	1139.5	1139.8	1140.3	1139.3	1139.0	1139.3	1140.3	1139.8	1139.5	1139.8	1140.3
20°	1132.8	1133.3	1133.8	1132.5	1132.3	1132.5	1133.8	1133.3	1132.8	1133.3	1133.8
20.5°	1126.3	1126.5	1127.0	1125.8	1125.5	1125.8	1127.0	1126.5	1126.3	1126.5	1127.0
21°	1119.2	1119.5	1120.0	1118.7	1118.5	1118.7	1120.0	1119.5	1119.2	1119.5	1120.0



TEST NUMBER: P776017

CATALOG NUMBER: HCDJBL1525CSD-HCD4TSQMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1097.7	1097.7	1097.9	1096.9	1096.9	1096.9	1097.9	1097.7	1097.7	1097.7	1097.9
23°	1090.2	1090.2	1090.2	1089.4	1089.2	1089.4	1090.2	1090.2	1090.2	1090.2	1090.2
23.5°	1082.6	1082.6	1082.1	1081.6	1081.6	1081.6	1082.1	1082.6	1082.6	1082.6	1082.1
24°	1074.9	1074.9	1074.1	1073.9	1074.4	1073.9	1074.1	1074.9	1074.9	1074.9	1074.1
24.5°	1067.1	1066.9	1065.9	1065.9	1066.6	1065.9	1065.9	1066.9	1067.1	1066.9	1065.9
25°	1059.8	1058.6	1057.3	1057.6	1055.6	1057.6	1057.3	1058.6	1059.8	1058.6	1057.3
25.5°	1051.3	1050.6	1048.8	1049.6	1045.1	1049.6	1048.8	1050.6	1051.3	1050.6	1048.8
26°	1037.0	1042.3	1040.0	1041.5	1034.5	1041.5	1040.0	1042.3	1037.0	1042.3	1040.0
26.5°	1025.0	1034.0	1031.3	1033.0	1019.2	1033.0	1031.3	1034.0	1025.0	1034.0	1031.3
27°	1010.5	1026.3	1022.3	1021.2	1001.4	1021.2	1022.3	1026.3	1010.5	1026.3	1022.3
27.5°	992.4	1015.5	1013.0	1010.5	985.4	1010.5	1013.0	1015.5	992.4	1015.5	1013.0
28°	973.4	1001.2	1003.7	998.9	967.6	998.9	1003.7	1001.2	973.4	1001.2	1003.7
28.5°	954.1	988.9	994.4	982.7	949.1	982.7	994.4	988.9	954.1	988.9	994.4
29°	933.8	973.6	984.9	965.6	931.0	965.6	984.9	973.6	933.8	973.6	984.9
29.5°	913.2	955.6	975.4	949.1	911.5	949.1	975.4	955.6	913.2	955.6	975.4
30°	891.9	937.0	965.6	931.5	891.7	931.5	965.6	937.0	891.9	937.0	965.6
30.5°	870.1	917.5	956.1	913.2	871.1	913.2	956.1	917.5	870.1	917.5	956.1
31°	847.6	897.9	946.3	894.4	850.1	894.4	946.3	897.9	847.6	897.9	946.3
31.5°	824.8	877.6	936.5	875.6	827.3	875.6	936.5	877.6	824.8	877.6	936.5
32°	801.5	857.1	926.8	856.3	804.0	856.3	926.8	857.1	801.5	857.1	926.8
32.5°	777.7	835.8	917.2	836.5	780.4	836.5	917.2	835.8	777.7	835.8	917.2
33°	753.8	814.5	907.5	815.7	757.1	815.7	907.5	814.5	753.8	814.5	907.5
33.5°	729.8	792.2	896.2	794.4	731.8	794.4	896.2	792.2	729.8	792.2	896.2
34°	706.2	769.6	884.2	772.1	707.7	772.1	884.2	769.6	706.2	769.6	884.2
34.5°	682.4	746.8	870.1	749.1	683.9	749.1	870.1	746.8	682.4	746.8	870.1
35°	658.9	724.0	853.1	725.8	661.1	725.8	853.1	724.0	658.9	724.0	853.1
35.5°	635.8	701.5	834.8	703.0	637.6	703.0	834.8	701.5	635.8	701.5	834.8
36°	613.0	678.4	814.5	679.7	615.5	679.7	814.5	678.4	613.0	678.4	814.5
36.5°	589.9	655.9	792.7	656.9	593.0	656.9	792.7	655.9	589.9	655.9	792.7
37°	567.1	633.3	769.6	634.3	570.6	634.3	769.6	633.3	567.1	633.3	769.6
37.5°	544.1	611.0	746.3	612.5	548.1	612.5	746.3	611.0	544.1	611.0	746.3
38°	521.0	588.7	722.3	590.4	525.5	590.4	722.3	588.7	521.0	588.7	722.3
38.5°	497.7	567.1	698.5	569.1	502.5	569.1	698.5	567.1	497.7	567.1	698.5
39°	475.2	545.3	674.4	547.8	479.9	547.8	674.4	545.3	475.2	545.3	674.4
39.5°	452.9	523.5	650.1	526.8	456.6	526.8	650.1	523.5	452.9	523.5	650.1
40°	430.1	501.5	625.3	505.2	434.3	505.2	625.3	501.5	430.1	501.5	625.3
40.5°	407.7	479.7	600.2	483.4	411.8	483.4	600.2	479.7	407.7	479.7	600.2
41°	386.2	458.1	575.2	461.9	390.0	461.9	575.2	458.1	386.2	458.1	575.2
41.5°	364.6	436.6	549.8	440.3	368.7	440.3	549.8	436.6	364.6	436.6	549.8
42°	343.8	415.5	524.5	418.8	348.1	418.8	524.5	415.5	343.8	415.5	524.5
42.5°	323.3	394.5	499.7	398.0	327.8	398.0	499.7	394.5	323.3	394.5	499.7
43°	303.0	373.9	474.9	376.9	307.8	376.9	474.9	373.9	303.0	373.9	474.9
43.5°	282.7	353.6	450.6	357.1	288.2	357.1	450.6	353.6	282.7	353.6	450.6



TEST NUMBER: P776017

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TSQMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	225.3	295.0	380.9	298.7	231.3	298.7	380.9	295.0	225.3	295.0	380.9
45.5°	207.8	276.2	359.1	280.4	213.5	280.4	359.1	276.2	207.8	276.2	359.1
46°	191.0	257.9	338.3	262.4	196.5	262.4	338.3	257.9	191.0	257.9	338.3
46.5°	173.9	239.3	317.8	244.3	180.2	244.3	317.8	239.3	173.9	239.3	317.8
47°	157.9	221.8	297.7	226.6	164.9	226.6	297.7	221.8	157.9	221.8	297.7
47.5°	141.8	204.8	278.4	209.0	149.9	209.0	278.4	204.8	141.8	204.8	278.4
48°	127.8	188.5	259.9	192.7	135.3	192.7	259.9	188.5	127.8	188.5	259.9
48.5°	114.3	172.4	242.1	177.2	122.3	177.2	242.1	172.4	114.3	172.4	242.1
49°	103.0	156.6	224.3	161.9	110.3	161.9	224.3	156.6	103.0	156.6	224.3
49.5°	92.2	141.8	207.3	147.4	98.7	147.4	207.3	141.8	92.2	141.8	207.3
50°	81.4	127.8	190.5	133.3	87.5	133.3	190.5	127.8	81.4	127.8	190.5
50.5°	71.2	114.5	174.9	120.3	76.4	120.3	174.9	114.5	71.2	114.5	174.9
51°	61.4	103.0	159.9	108.5	67.2	108.5	159.9	103.0	61.4	103.0	159.9
51.5°	53.4	92.0	145.6	97.0	58.4	97.0	145.6	92.0	53.4	92.0	145.6
52°	45.6	81.2	131.8	86.0	50.1	86.0	131.8	81.2	45.6	81.2	131.8
52.5°	38.3	70.7	118.8	75.4	42.4	75.4	118.8	70.7	38.3	70.7	118.8
53°	31.6	61.1	107.3	66.2	35.1	66.2	107.3	61.1	31.6	61.1	107.3
53.5°	26.1	52.6	96.0	57.6	28.1	57.6	96.0	52.6	26.1	52.6	96.0
54°	20.3	44.9	85.5	49.4	22.3	49.4	85.5	44.9	20.3	44.9	85.5
54.5°	14.8	37.6	75.7	41.6	18.0	41.6	75.7	37.6	14.8	37.6	75.7
55°	10.8	31.3	66.2	34.3	13.8	34.3	66.2	31.3	10.8	31.3	66.2
55.5°	6.8	25.6	57.6	27.6	9.5	27.6	57.6	25.6	6.8	25.6	57.6
56°	4.5	20.0	49.4	21.6	5.3	21.6	49.4	20.0	4.5	20.0	49.4
56.5°	3.5	14.5	42.4	16.5	3.3	16.5	42.4	14.5	3.5	14.5	42.4
57°	2.5	9.5	36.1	12.0	2.8	12.0	36.1	9.5	2.5	9.5	36.1
57.5°	2.5	6.0	30.3	8.0	2.5	8.0	30.3	6.0	2.5	6.0	30.3
58°	2.3	3.8	25.3	5.3	2.5	5.3	25.3	3.8	2.3	3.8	25.3
58.5°	2.3	2.5	21.1	3.8	2.3	3.8	21.1	2.5	2.3	2.5	21.1
59°	2.0	2.0	17.0	2.8	2.3	2.8	17.0	2.0	2.0	2.0	17.0
59.5°	2.0	2.0	13.8	2.0	2.3	2.0	13.8	2.0	2.0	2.0	13.8
60°	2.0	2.0	11.0	2.0	2.0	2.0	11.0	2.0	2.0	2.0	11.0
60.5°	1.8	1.8	8.5	2.0	2.0	2.0	8.5	1.8	1.8	1.8	8.5
61°	1.8	1.8	6.8	1.8	2.0	1.8	6.8	1.8	1.8	1.8	6.8
61.5°	1.8	1.8	5.0	1.8	1.8	1.8	5.0	1.8	1.8	1.8	5.0
62°	1.5	1.5	3.8	1.8	1.8	1.8	3.8	1.5	1.5	1.5	3.8
62.5°	1.5	1.5	2.8	1.5	1.8	1.5	2.8	1.5	1.5	1.5	2.8
63°	1.5	1.5	2.0	1.5	1.5	1.5	2.0	1.5	1.5	1.5	2.0
63.5°	1.5	1.3	1.5	1.5	1.5	1.5	1.5	1.3	1.5	1.3	1.5
64°	1.3	1.3	1.3	1.3	1.5	1.3	1.3	1.3	1.3	1.3	1.3
64.5°	1.3	1.3	1.0	1.3	1.5	1.3	1.0	1.3	1.3	1.3	1.0
65°	1.3	1.3	1.0	1.3	1.3	1.3	1.0	1.3	1.3	1.3	1.0
65.5°	1.3	1.0	1.0	1.3	1.3	1.3	1.0	1.0	1.3	1.0	1.0
66°	1.3	1.0	0.8	1.0	1.3	1.0	0.8	1.0	1.3	1.0	0.8



TEST NUMBER: P776017

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.0	1.0	0.8	1.0	1.0	1.0	0.8	1.0	1.0	1.0	0.8
68°	1.0	0.8	0.8	1.0	1.0	1.0	0.8	0.8	1.0	0.8	0.8
68.5°	1.0	0.8	0.5	0.8	1.0	0.8	0.5	0.8	1.0	0.8	0.5
69°	0.8	0.8	0.5	0.8	1.0	0.8	0.5	0.8	0.8	0.8	0.5
69.5°	0.8	0.8	0.5	0.8	1.0	0.8	0.5	0.8	0.8	0.8	0.5
70°	0.8	0.8	0.5	0.8	0.8	0.8	0.5	0.8	0.8	0.8	0.5
70.5°	0.8	0.8	0.5	0.8	0.8	0.8	0.5	0.8	0.8	0.8	0.5
71°	0.8	0.5	0.5	0.8	0.8	0.8	0.5	0.5	0.8	0.5	0.5
71.5°	0.8	0.5	0.5	0.5	0.8	0.5	0.5	0.5	0.8	0.5	0.5
72°	0.8	0.5	0.5	0.5	0.8	0.5	0.5	0.5	0.8	0.5	0.5
72.5°	0.5	0.5	0.3	0.5	0.8	0.5	0.3	0.5	0.5	0.5	0.3
73°	0.5	0.5	0.3	0.5	0.8	0.5	0.3	0.5	0.5	0.5	0.3
73.5°	0.5	0.5	0.3	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.3
74°	0.5	0.5	0.3	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.3
74.5°	0.5	0.5	0.3	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.3
75°	0.5	0.5	0.3	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.3
75.5°	0.5	0.3	0.3	0.5	0.5	0.5	0.3	0.3	0.5	0.3	0.3
76°	0.5	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.5	0.3	0.3
76.5°	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.0
79.5°	0.3	0.3	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.0
80°	0.3	0.3	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.0
80.5°	0.3	0.3	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.0
81°	0.3	0.3	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.0
81.5°	0.3	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.3	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.3	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: P776017

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-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: P776017

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1263.3	1263.3	1263.3	1263.3	1263.3	1263.3
0.5°	1263.3	1264.1	1263.3	1263.1	1263.1	1263.1
1°	1263.1	1263.8	1263.1	1262.8	1262.8	1262.8
1.5°	1262.6	1263.3	1262.6	1262.6	1262.6	1262.3
2°	1262.1	1262.8	1262.1	1262.1	1261.8	1261.8
2.5°	1261.6	1262.1	1261.6	1261.3	1261.1	1261.1
3°	1260.6	1261.3	1260.6	1260.6	1260.3	1260.3
3.5°	1259.6	1260.3	1259.6	1259.6	1259.3	1259.3
4°	1258.6	1259.1	1258.6	1258.3	1258.3	1258.3
4.5°	1257.1	1257.8	1257.1	1257.1	1257.1	1257.1
5°	1255.6	1256.3	1255.6	1255.6	1255.6	1255.6
5.5°	1254.1	1254.6	1254.1	1254.1	1253.8	1253.8
6°	1252.3	1252.8	1252.3	1252.1	1252.1	1252.1
6.5°	1250.3	1250.8	1250.3	1250.3	1250.1	1250.1
7°	1248.3	1248.8	1248.3	1248.1	1248.1	1248.1
7.5°	1245.8	1246.5	1245.8	1245.8	1245.8	1245.8
8°	1243.5	1244.0	1243.5	1243.5	1243.3	1243.3
8.5°	1240.8	1241.3	1240.8	1240.8	1240.8	1240.8
9°	1238.0	1238.5	1238.0	1238.0	1238.0	1238.0
9.5°	1235.0	1235.5	1235.0	1235.0	1235.0	1235.0
10°	1232.0	1232.5	1232.0	1232.0	1232.0	1232.0
10.5°	1228.5	1229.3	1228.5	1228.8	1228.8	1228.8
11°	1225.2	1225.7	1225.2	1225.5	1225.2	1225.2
11.5°	1221.5	1222.0	1221.5	1221.7	1221.7	1221.7
12°	1217.7	1218.2	1217.7	1218.0	1218.0	1218.0
12.5°	1213.7	1214.0	1213.7	1214.0	1214.0	1213.7
13°	1209.5	1210.0	1209.5	1210.0	1210.0	1209.7
13.5°	1205.2	1205.7	1205.2	1205.7	1205.4	1205.4
14°	1200.7	1200.9	1200.7	1201.2	1201.2	1200.9
14.5°	1196.2	1196.2	1196.2	1196.7	1196.4	1196.2
15°	1191.2	1191.4	1191.2	1191.7	1191.7	1191.2
15.5°	1186.2	1186.2	1186.2	1186.7	1186.7	1186.2
16°	1180.9	1180.9	1180.9	1181.6	1181.4	1180.9
16.5°	1175.6	1175.4	1175.6	1176.4	1175.9	1175.6
17°	1169.9	1169.9	1169.9	1170.9	1170.4	1170.1
17.5°	1164.1	1164.1	1164.1	1165.1	1164.6	1164.1
18°	1158.3	1158.1	1158.3	1159.1	1158.6	1158.3
18.5°	1152.1	1151.8	1152.1	1153.1	1152.6	1152.3
19°	1145.8	1145.3	1145.8	1146.8	1146.3	1145.8
19.5°	1139.3	1139.0	1139.3	1140.3	1139.8	1139.5
20°	1132.5	1132.3	1132.5	1133.8	1133.3	1132.8
20.5°	1125.8	1125.5	1125.8	1127.0	1126.5	1126.3
21°	1118.7	1118.5	1118.7	1120.0	1119.5	1119.2



TEST NUMBER: P776017

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TSQMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1096.9	1096.9	1096.9	1097.9	1097.7	1097.7
23°	1089.4	1089.2	1089.4	1090.2	1090.2	1090.2
23.5°	1081.6	1081.6	1081.6	1082.1	1082.6	1082.6
24°	1073.9	1074.4	1073.9	1074.1	1074.9	1074.9
24.5°	1065.9	1066.6	1065.9	1065.9	1066.9	1067.1
25°	1057.6	1055.6	1057.6	1057.3	1058.6	1059.8
25.5°	1049.6	1045.1	1049.6	1048.8	1050.6	1051.3
26°	1041.5	1034.5	1041.5	1040.0	1042.3	1037.0
26.5°	1033.0	1019.2	1033.0	1031.3	1034.0	1025.0
27°	1021.2	1001.4	1021.2	1022.3	1026.3	1010.5
27.5°	1010.5	985.4	1010.5	1013.0	1015.5	992.4
28°	998.9	967.6	998.9	1003.7	1001.2	973.4
28.5°	982.7	949.1	982.7	994.4	988.9	954.1
29°	965.6	931.0	965.6	984.9	973.6	933.8
29.5°	949.1	911.5	949.1	975.4	955.6	913.2
30°	931.5	891.7	931.5	965.6	937.0	891.9
30.5°	913.2	871.1	913.2	956.1	917.5	870.1
31°	894.4	850.1	894.4	946.3	897.9	847.6
31.5°	875.6	827.3	875.6	936.5	877.6	824.8
32°	856.3	804.0	856.3	926.8	857.1	801.5
32.5°	836.5	780.4	836.5	917.2	835.8	777.7
33°	815.7	757.1	815.7	907.5	814.5	753.8
33.5°	794.4	731.8	794.4	896.2	792.2	729.8
34°	772.1	707.7	772.1	884.2	769.6	706.2
34.5°	749.1	683.9	749.1	870.1	746.8	682.4
35°	725.8	661.1	725.8	853.1	724.0	658.9
35.5°	703.0	637.6	703.0	834.8	701.5	635.8
36°	679.7	615.5	679.7	814.5	678.4	613.0
36.5°	656.9	593.0	656.9	792.7	655.9	589.9
37°	634.3	570.6	634.3	769.6	633.3	567.1
37.5°	612.5	548.1	612.5	746.3	611.0	544.1
38°	590.4	525.5	590.4	722.3	588.7	521.0
38.5°	569.1	502.5	569.1	698.5	567.1	497.7
39°	547.8	479.9	547.8	674.4	545.3	475.2
39.5°	526.8	456.6	526.8	650.1	523.5	452.9
40°	505.2	434.3	505.2	625.3	501.5	430.1
40.5°	483.4	411.8	483.4	600.2	479.7	407.7
41°	461.9	390.0	461.9	575.2	458.1	386.2
41.5°	440.3	368.7	440.3	549.8	436.6	364.6
42°	418.8	348.1	418.8	524.5	415.5	343.8
42.5°	398.0	327.8	398.0	499.7	394.5	323.3
43°	376.9	307.8	376.9	474.9	373.9	303.0
43.5°	357.1	288.2	357.1	450.6	353.6	282.7



TEST NUMBER: P776017

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TSQMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	298.7	231.3	298.7	380.9	295.0	225.3
45.5°	280.4	213.5	280.4	359.1	276.2	207.8
46°	262.4	196.5	262.4	338.3	257.9	191.0
46.5°	244.3	180.2	244.3	317.8	239.3	173.9
47°	226.6	164.9	226.6	297.7	221.8	157.9
47.5°	209.0	149.9	209.0	278.4	204.8	141.8
48°	192.7	135.3	192.7	259.9	188.5	127.8
48.5°	177.2	122.3	177.2	242.1	172.4	114.3
49°	161.9	110.3	161.9	224.3	156.6	103.0
49.5°	147.4	98.7	147.4	207.3	141.8	92.2
50°	133.3	87.5	133.3	190.5	127.8	81.4
50.5°	120.3	76.4	120.3	174.9	114.5	71.2
51°	108.5	67.2	108.5	159.9	103.0	61.4
51.5°	97.0	58.4	97.0	145.6	92.0	53.4
52°	86.0	50.1	86.0	131.8	81.2	45.6
52.5°	75.4	42.4	75.4	118.8	70.7	38.3
53°	66.2	35.1	66.2	107.3	61.1	31.6
53.5°	57.6	28.1	57.6	96.0	52.6	26.1
54°	49.4	22.3	49.4	85.5	44.9	20.3
54.5°	41.6	18.0	41.6	75.7	37.6	14.8
55°	34.3	13.8	34.3	66.2	31.3	10.8
55.5°	27.6	9.5	27.6	57.6	25.6	6.8
56°	21.6	5.3	21.6	49.4	20.0	4.5
56.5°	16.5	3.3	16.5	42.4	14.5	3.5
57°	12.0	2.8	12.0	36.1	9.5	2.5
57.5°	8.0	2.5	8.0	30.3	6.0	2.5
58°	5.3	2.5	5.3	25.3	3.8	2.3
58.5°	3.8	2.3	3.8	21.1	2.5	2.3
59°	2.8	2.3	2.8	17.0	2.0	2.0
59.5°	2.0	2.3	2.0	13.8	2.0	2.0
60°	2.0	2.0	2.0	11.0	2.0	2.0
60.5°	2.0	2.0	2.0	8.5	1.8	1.8
61°	1.8	2.0	1.8	6.8	1.8	1.8
61.5°	1.8	1.8	1.8	5.0	1.8	1.8
62°	1.8	1.8	1.8	3.8	1.5	1.5
62.5°	1.5	1.8	1.5	2.8	1.5	1.5
63°	1.5	1.5	1.5	2.0	1.5	1.5
63.5°	1.5	1.5	1.5	1.5	1.3	1.5
64°	1.3	1.5	1.3	1.3	1.3	1.3
64.5°	1.3	1.5	1.3	1.0	1.3	1.3
65°	1.3	1.3	1.3	1.0	1.3	1.3
65.5°	1.3	1.3	1.3	1.0	1.0	1.3
66°	1.0	1.3	1.0	0.8	1.0	1.3



TEST NUMBER: P776017

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.0	1.0	1.0	0.8	1.0	1.0
68°	1.0	1.0	1.0	0.8	0.8	1.0
68.5°	0.8	1.0	0.8	0.5	0.8	1.0
69°	0.8	1.0	0.8	0.5	0.8	0.8
69.5°	0.8	1.0	0.8	0.5	0.8	0.8
70°	0.8	0.8	0.8	0.5	0.8	0.8
70.5°	0.8	0.8	0.8	0.5	0.8	0.8
71°	0.8	0.8	0.8	0.5	0.5	0.8
71.5°	0.5	0.8	0.5	0.5	0.5	0.8
72°	0.5	0.8	0.5	0.5	0.5	0.8
72.5°	0.5	0.8	0.5	0.3	0.5	0.5
73°	0.5	0.8	0.5	0.3	0.5	0.5
73.5°	0.5	0.5	0.5	0.3	0.5	0.5
74°	0.5	0.5	0.5	0.3	0.5	0.5
74.5°	0.5	0.5	0.5	0.3	0.5	0.5
75°	0.5	0.5	0.5	0.3	0.5	0.5
75.5°	0.5	0.5	0.5	0.3	0.3	0.5
76°	0.3	0.5	0.3	0.3	0.3	0.5
76.5°	0.3	0.5	0.3	0.3	0.3	0.3
77°	0.3	0.5	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.0	0.3	0.3
79.5°	0.3	0.3	0.3	0.0	0.3	0.3
80°	0.3	0.3	0.3	0.0	0.3	0.3
80.5°	0.3	0.3	0.3	0.0	0.3	0.3
81°	0.3	0.3	0.3	0.0	0.3	0.3
81.5°	0.3	0.3	0.3	0.0	0.0	0.3
82°	0.0	0.3	0.0	0.0	0.0	0.0
82.5°	0.0	0.3	0.0	0.0	0.0	0.0
83°	0.0	0.3	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: P776017
CATALOG NUMBER: HCDJBL1525CSD-HCD4TSQMB-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°	1112.2	1112.5	1112.7	1111.7	1111.5	1111.7	1112.7	1112.5	1112.2	1112.5	1112.7
22°	1105.0	1105.2	1105.5	1104.2	1104.2	1104.2	1105.5	1105.2	1105.0	1105.2	1105.5



44°	263.1	333.6	426.5	337.1	268.7	337.1	426.5	333.6	263.1	333.6	426.5
44.5°	244.1	314.3	403.5	317.8	249.6	317.8	403.5	314.3	244.1	314.3	403.5



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



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°	1111.7	1111.5	1111.7	1112.7	1112.5	1112.2
22°	1104.2	1104.2	1104.2	1105.5	1105.2	1105.0



44°	337.1	268.7	337.1	426.5	333.6	263.1
44.5°	317.8	249.6	317.8	403.5	314.3	244.1

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

Scaled Data Report



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

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)