

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: P776142

Luminaire Tested: HCDJBL51525CSD-HCD81TRMB-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B045-HCD81TRMB)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD81TRMB-2500lm-3500K
Description: 8 INCH ROUND SHALLOW-WIDE MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

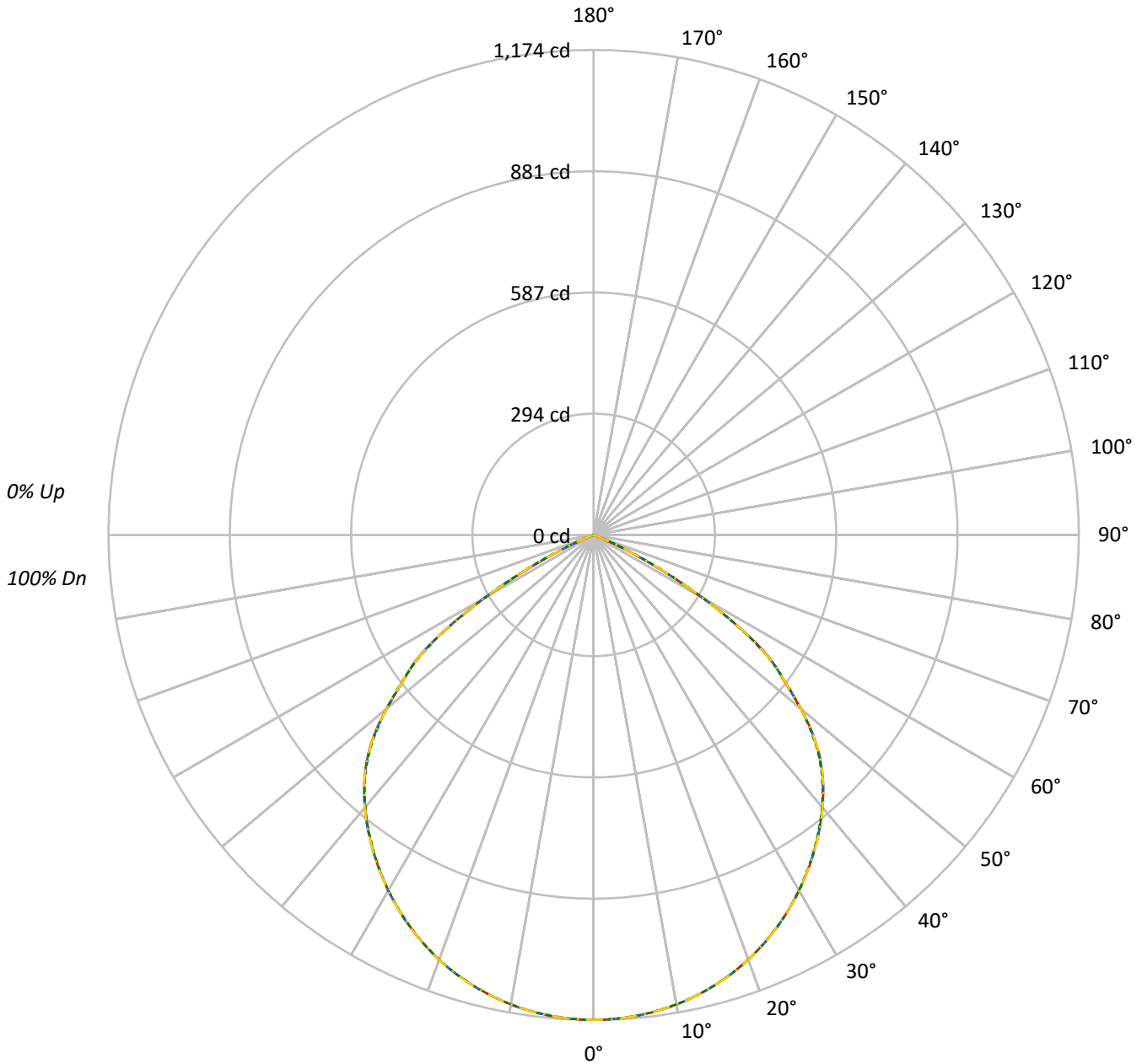
Lumens per Lamp: N/A
Luminaire Lumens: 2651.4 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P776142
CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-2500lm-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P776142

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-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	100	100	100	100		
	1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89	89	89		
	2	103	97	91	86	101	95	90	85	91	87	84	88	85	82	85	82	80	78	78	78	78	78	78		
	3	95	86	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	68	68	68	68	68		
	4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59	59	59	59	59	59		
	5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52	52	52	52	52	52		
	6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46	46	46	46	46	46		
	7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41	41	41	41	41	41		
	8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37	37	37	37	37	37		
	9	61	48	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33	33	33	33	33	33		
	10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30	30	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	35836	35836	35836	35836
5°	35826	35811	35826	35811
10°	35782	35775	35782	35775
15°	35691	35681	35691	35681
20°	35547	35537	35547	35537
25°	35327	35310	35327	35310
30°	35042	35017	35042	35017
35°	34714	34665	34714	34665
40°	34323	34251	34323	34251
45°	33544	33427	33544	33427
50°	31068	31068	31068	31068
55°	27652	27343	27652	27343
60°	18459	18721	18459	18721
65°	6538	7824	6538	7824
70°	71	741	71	741
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 33544 cd/sqm



TEST NUMBER: P776142

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-2500lm-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	4.2
10°-20°	318.7	12.0
20°-30°	483.2	18.2
30°-40°	582.6	22.0
40°-50°	593.9	22.4
50°-60°	446.3	16.8
60°-70°	115.3	4.3
70°-80°	0.3	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°	913.1	34.4
0°-40°	1495.6	56.4
0°-60°	2535.8	95.6
0°-90°	2651.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2651.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1174	1174	1174	1174	1174	
5°	1169	1168	1169	1168	1169	111
15°	1129	1129	1129	1129	1129	319
25°	1049	1048	1049	1048	1049	483
35°	931	930	931	930	931	583
45°	777	774	777	774	777	594
55°	520	514	520	514	520	446
65°	90	108	90	108	90	108
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P776142

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-2500lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8
0.5°	1173.8	1173.8	1173.8	1173.8	1173.5	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8
1°	1173.8	1173.8	1173.8	1173.5	1173.3	1173.5	1173.8	1173.8	1173.8	1173.8	1173.8
1.5°	1173.5	1173.5	1173.5	1173.5	1173.3	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5
2°	1173.3	1173.3	1173.3	1173.0	1172.8	1173.0	1173.3	1173.3	1173.3	1173.3	1173.3
2.5°	1172.5	1172.8	1172.8	1172.8	1172.3	1172.8	1172.8	1172.8	1172.5	1172.8	1172.8
3°	1172.0	1172.3	1172.3	1172.3	1171.8	1172.3	1172.3	1172.3	1172.0	1172.3	1172.3
3.5°	1171.5	1171.5	1171.5	1171.5	1171.3	1171.5	1171.5	1171.5	1171.5	1171.5	1171.5
4°	1170.8	1170.8	1170.8	1170.8	1170.3	1170.8	1170.8	1170.8	1170.8	1170.8	1170.8
4.5°	1170.0	1170.0	1170.0	1170.0	1169.5	1170.0	1170.0	1170.0	1170.0	1170.0	1170.0
5°	1169.0	1169.0	1169.0	1169.0	1168.5	1169.0	1169.0	1169.0	1169.0	1169.0	1169.0
5.5°	1168.0	1168.0	1168.0	1168.0	1167.5	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0
6°	1166.8	1167.0	1166.8	1166.8	1166.5	1166.8	1166.8	1167.0	1166.8	1167.0	1166.8
6.5°	1165.5	1165.8	1165.8	1165.5	1165.3	1165.5	1165.8	1165.8	1165.5	1165.8	1165.8
7°	1164.3	1164.3	1164.3	1164.3	1164.0	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3
7.5°	1162.8	1162.8	1162.8	1163.0	1162.5	1163.0	1162.8	1162.8	1162.8	1162.8	1162.8
8°	1161.3	1161.3	1161.3	1161.3	1161.0	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3
8.5°	1159.8	1159.8	1159.8	1159.8	1159.3	1159.8	1159.8	1159.8	1159.8	1159.8	1159.8
9°	1158.0	1158.0	1158.0	1158.0	1157.8	1158.0	1158.0	1158.0	1158.0	1158.0	1158.0
9.5°	1156.0	1156.2	1156.2	1156.2	1155.7	1156.2	1156.2	1156.2	1156.0	1156.2	1156.2
10°	1154.2	1154.2	1154.2	1154.2	1154.0	1154.2	1154.2	1154.2	1154.2	1154.2	1154.2
10.5°	1152.2	1152.2	1152.2	1152.2	1152.0	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2
11°	1150.0	1150.0	1150.0	1150.2	1149.7	1150.2	1150.0	1150.0	1150.0	1150.0	1150.0
11.5°	1147.7	1147.7	1147.7	1148.0	1147.5	1148.0	1147.7	1147.7	1147.7	1147.7	1147.7
12°	1145.5	1145.5	1145.5	1145.5	1145.2	1145.5	1145.5	1145.5	1145.5	1145.5	1145.5
12.5°	1143.0	1143.0	1143.0	1143.2	1142.7	1143.2	1143.0	1143.0	1143.0	1143.0	1143.0
13°	1140.5	1140.5	1140.5	1140.5	1140.2	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5
13.5°	1137.7	1137.9	1137.9	1137.9	1137.4	1137.9	1137.9	1137.9	1137.7	1137.9	1137.9
14°	1134.9	1135.2	1135.2	1135.2	1134.7	1135.2	1135.2	1135.2	1134.9	1135.2	1135.2
14.5°	1132.2	1132.2	1132.2	1132.2	1131.9	1132.2	1132.2	1132.2	1132.2	1132.2	1132.2
15°	1129.2	1129.2	1129.2	1129.4	1128.9	1129.4	1129.2	1129.2	1129.2	1129.2	1129.2
15.5°	1126.2	1126.2	1126.2	1126.2	1125.9	1126.2	1126.2	1126.2	1126.2	1126.2	1126.2
16°	1122.9	1123.2	1123.2	1123.2	1122.7	1123.2	1123.2	1123.2	1122.9	1123.2	1123.2
16.5°	1119.6	1119.6	1119.9	1119.9	1119.6	1119.9	1119.9	1119.9	1119.6	1119.6	1119.9
17°	1116.4	1116.4	1116.6	1116.4	1116.1	1116.4	1116.6	1116.4	1116.4	1116.4	1116.6
17.5°	1112.9	1112.9	1113.1	1113.1	1112.9	1113.1	1113.1	1112.9	1112.9	1112.9	1113.1
18°	1109.4	1109.4	1109.4	1109.4	1109.1	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4
18.5°	1105.6	1105.6	1105.9	1105.9	1105.4	1105.9	1105.9	1105.6	1105.6	1105.6	1105.9
19°	1101.8	1101.8	1102.1	1102.1	1101.6	1102.1	1102.1	1101.8	1101.8	1101.8	1102.1
19.5°	1098.1	1098.1	1098.1	1098.1	1097.8	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1
20°	1094.1	1094.1	1094.1	1094.1	1093.8	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1
20.5°	1089.8	1090.1	1090.1	1090.1	1089.6	1090.1	1090.1	1090.1	1089.8	1090.1	1090.1
21°	1085.8	1085.8	1085.8	1085.8	1085.6	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8



TEST NUMBER: P776142

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1072.5	1072.8	1072.8	1072.8	1072.3	1072.8	1072.8	1072.8	1072.5	1072.8	1072.8
23°	1068.0	1068.0	1068.0	1068.0	1067.8	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0
23.5°	1063.2	1063.5	1063.5	1063.5	1063.0	1063.5	1063.5	1063.5	1063.2	1063.5	1063.5
24°	1058.5	1058.5	1058.7	1058.5	1058.2	1058.5	1058.7	1058.5	1058.5	1058.5	1058.7
24.5°	1053.5	1053.7	1054.0	1053.7	1053.2	1053.7	1054.0	1053.7	1053.5	1053.7	1054.0
25°	1048.7	1048.7	1048.9	1048.7	1048.2	1048.7	1048.9	1048.7	1048.7	1048.7	1048.9
25.5°	1043.4	1043.7	1043.9	1043.7	1043.2	1043.7	1043.9	1043.7	1043.4	1043.7	1043.9
26°	1038.4	1038.4	1038.7	1038.4	1037.9	1038.4	1038.7	1038.4	1038.4	1038.4	1038.7
26.5°	1033.2	1033.4	1033.4	1033.2	1032.7	1033.2	1033.4	1033.4	1033.2	1033.4	1033.4
27°	1027.9	1027.9	1028.1	1027.9	1027.4	1027.9	1028.1	1027.9	1027.9	1027.9	1028.1
27.5°	1022.4	1022.6	1022.6	1022.4	1021.9	1022.4	1022.6	1022.6	1022.4	1022.6	1022.6
28°	1016.9	1017.1	1017.1	1016.9	1016.4	1016.9	1017.1	1017.1	1016.9	1017.1	1017.1
28.5°	1011.3	1011.3	1011.6	1011.3	1010.8	1011.3	1011.6	1011.3	1011.3	1011.3	1011.6
29°	1005.6	1005.8	1005.8	1005.6	1004.8	1005.6	1005.8	1005.8	1005.6	1005.8	1005.8
29.5°	999.8	1000.1	1000.1	999.8	999.1	999.8	1000.1	1000.1	999.8	1000.1	1000.1
30°	994.0	994.3	994.3	993.8	993.3	993.8	994.3	994.3	994.0	994.3	994.3
30.5°	988.3	988.3	988.3	988.0	987.3	988.0	988.3	988.3	988.3	988.3	988.3
31°	982.0	982.3	982.5	981.8	981.3	981.8	982.5	982.3	982.0	982.3	982.5
31.5°	976.0	976.2	976.2	975.7	975.0	975.7	976.2	976.2	976.0	976.2	976.2
32°	970.0	970.2	970.2	969.7	968.7	969.7	970.2	970.2	970.0	970.2	970.2
32.5°	963.7	964.0	964.0	963.2	962.5	963.2	964.0	964.0	963.7	964.0	964.0
33°	957.2	957.7	957.7	957.2	956.2	957.2	957.7	957.7	957.2	957.7	957.7
33.5°	950.9	951.2	951.4	950.7	949.7	950.7	951.4	951.2	950.9	951.2	951.4
34°	944.4	944.7	944.9	944.2	943.4	944.2	944.9	944.7	944.4	944.7	944.9
34.5°	937.9	938.1	938.4	937.6	936.9	937.6	938.4	938.1	937.9	938.1	938.4
35°	931.4	931.6	931.9	931.1	930.1	931.1	931.9	931.6	931.4	931.6	931.9
35.5°	924.6	925.1	925.1	924.3	923.3	924.3	925.1	925.1	924.6	925.1	925.1
36°	918.1	918.3	918.6	917.6	916.6	917.6	918.6	918.3	918.1	918.3	918.6
36.5°	911.3	911.6	911.8	910.8	909.8	910.8	911.8	911.6	911.3	911.6	911.8
37°	904.3	904.5	904.8	903.8	903.0	903.8	904.8	904.5	904.3	904.5	904.8
37.5°	897.3	897.8	898.0	896.8	895.8	896.8	898.0	897.8	897.3	897.8	898.0
38°	890.3	890.5	891.0	889.8	889.0	889.8	891.0	890.5	890.3	890.5	891.0
38.5°	883.0	883.5	883.7	882.7	881.7	882.7	883.7	883.5	883.0	883.5	883.7
39°	876.0	876.5	876.7	875.5	874.5	875.5	876.7	876.5	876.0	876.5	876.7
39.5°	868.7	868.9	869.2	868.2	866.9	868.2	869.2	868.9	868.7	868.9	869.2
40°	861.2	861.7	861.7	860.7	859.4	860.7	861.7	861.7	861.2	861.7	861.7
40.5°	853.6	853.9	854.2	852.9	851.9	852.9	854.2	853.9	853.6	853.9	854.2
41°	845.9	846.4	846.6	845.4	844.1	845.4	846.6	846.4	845.9	846.4	846.6
41.5°	838.1	838.4	838.6	837.4	836.4	837.4	838.6	838.4	838.1	838.4	838.6
42°	830.1	830.3	830.6	829.3	828.1	829.3	830.6	830.3	830.1	830.3	830.6
42.5°	821.8	822.3	822.3	821.1	819.8	821.1	822.3	822.3	821.8	822.3	822.3
43°	813.5	813.8	813.8	812.5	811.3	812.5	813.8	813.8	813.5	813.8	813.8
43.5°	804.8	805.0	805.0	803.8	802.5	803.8	805.0	805.0	804.8	805.0	805.0



TEST NUMBER: P776142

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	776.9	776.9	776.7	775.4	774.2	775.4	776.7	776.9	776.9	776.9	776.7
45.5°	766.9	766.9	766.7	765.2	763.9	765.2	766.7	766.9	766.9	766.9	766.7
46°	756.6	756.6	756.1	754.6	753.1	754.6	756.1	756.6	756.6	756.6	756.1
46.5°	745.6	745.6	745.1	743.3	742.3	743.3	745.1	745.6	745.6	745.6	745.1
47°	734.1	734.1	733.3	731.8	730.6	731.8	733.3	734.1	734.1	734.1	733.3
47.5°	722.0	722.0	721.3	719.8	718.5	719.8	721.3	722.0	722.0	722.0	721.3
48°	709.5	709.5	709.0	707.5	706.5	707.5	709.0	709.5	709.5	709.5	709.0
48.5°	696.5	696.5	696.0	695.0	693.9	695.0	696.0	696.5	696.5	696.5	696.0
49°	682.7	682.7	682.4	681.7	681.2	681.7	682.4	682.7	682.7	682.7	682.4
49.5°	668.9	668.6	668.9	668.1	667.9	668.1	668.9	668.6	668.9	668.6	668.9
50°	654.1	654.3	654.8	654.3	654.1	654.3	654.8	654.3	654.1	654.3	654.8
50.5°	638.8	639.8	640.5	640.3	640.3	640.3	640.5	639.8	638.8	639.8	640.5
51°	624.3	624.8	625.5	626.3	626.8	626.3	625.5	624.8	624.3	624.8	625.5
51.5°	610.0	610.2	611.2	612.0	612.7	612.0	611.2	610.2	610.0	610.2	611.2
52°	595.7	596.2	597.2	598.2	599.4	598.2	597.2	596.2	595.7	596.2	597.2
52.5°	582.1	582.6	583.9	585.1	586.1	585.1	583.9	582.6	582.1	582.6	583.9
53°	569.3	569.9	571.1	572.1	573.1	572.1	571.1	569.9	569.3	569.9	571.1
53.5°	557.3	557.8	558.3	558.8	559.6	558.8	558.3	557.8	557.3	557.8	558.3
54°	546.0	545.5	545.5	545.3	545.3	545.3	545.5	545.5	546.0	545.5	545.5
54.5°	533.5	533.0	532.0	530.7	529.7	530.7	532.0	533.0	533.5	533.0	532.0
55°	519.5	518.5	517.0	515.2	513.7	515.2	517.0	518.5	519.5	518.5	517.0
55.5°	502.9	501.7	500.2	498.7	497.1	498.7	500.2	501.7	502.9	501.7	500.2
56°	484.4	483.6	482.1	480.6	478.8	480.6	482.1	483.6	484.4	483.6	482.1
56.5°	464.1	463.3	462.8	461.3	460.0	461.3	462.8	463.3	464.1	463.3	462.8
57°	442.7	442.2	442.0	440.7	439.2	440.7	442.0	442.2	442.7	442.2	442.0
57.5°	420.2	420.2	420.2	418.9	417.9	418.9	420.2	420.2	420.2	420.2	420.2
58°	397.4	397.6	397.9	397.1	396.1	397.1	397.9	397.6	397.4	397.6	397.9
58.5°	374.1	374.1	374.8	374.6	373.5	374.6	374.8	374.1	374.1	374.1	374.8
59°	350.2	350.7	351.5	351.7	351.5	351.7	351.5	350.7	350.2	350.7	351.5
59.5°	326.4	326.9	328.2	329.2	329.2	329.2	328.2	326.9	326.4	326.9	328.2
60°	302.3	303.4	304.9	306.9	306.6	306.9	304.9	303.4	302.3	303.4	304.9
60.5°	278.5	279.8	281.8	284.0	284.3	284.0	281.8	279.8	278.5	279.8	281.8
61°	255.5	257.0	259.0	261.5	262.2	261.5	259.0	257.0	255.5	257.0	259.0
61.5°	232.9	234.2	236.9	239.2	240.7	239.2	236.9	234.2	232.9	234.2	236.9
62°	210.3	212.1	215.1	217.9	219.9	217.9	215.1	212.1	210.3	212.1	215.1
62.5°	188.0	190.0	194.0	197.1	199.1	197.1	194.0	190.0	188.0	190.0	194.0
63°	166.7	169.0	173.5	176.7	179.0	176.7	173.5	169.0	166.7	169.0	173.5
63.5°	146.4	148.7	153.4	157.4	161.2	157.4	153.4	148.7	146.4	148.7	153.4
64°	126.9	129.4	134.1	139.4	143.7	139.4	134.1	129.4	126.9	129.4	134.1
64.5°	108.1	111.3	116.3	121.8	125.9	121.8	116.3	111.3	108.1	111.3	116.3
65°	90.5	94.8	99.5	104.8	108.3	104.8	99.5	94.8	90.5	94.8	99.5
65.5°	74.5	79.2	83.5	88.5	91.8	88.5	83.5	79.2	74.5	79.2	83.5
66°	59.7	65.4	68.7	73.7	76.7	73.7	68.7	65.4	59.7	65.4	68.7



TEST NUMBER: P776142

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	22.8	30.8	34.3	38.6	40.9	38.6	34.3	30.8	22.8	30.8	34.3
68°	13.3	21.3	26.1	29.1	31.8	29.1	26.1	21.3	13.3	21.3	26.1
68.5°	5.0	14.3	18.8	22.1	25.3	22.1	18.8	14.3	5.0	14.3	18.8
69°	2.5	8.5	12.0	15.3	18.8	15.3	12.0	8.5	2.5	8.5	12.0
69.5°	1.5	3.8	6.8	10.0	13.5	10.0	6.8	3.8	1.5	3.8	6.8
70°	0.8	1.8	3.8	5.8	8.3	5.8	3.8	1.8	0.8	1.8	3.8
70.5°	0.3	1.0	2.3	2.8	3.3	2.8	2.3	1.0	0.3	1.0	2.3
71°	0.3	0.5	1.3	1.5	1.3	1.5	1.3	0.5	0.3	0.5	1.3
71.5°	0.3	0.3	0.8	0.8	0.3	0.8	0.8	0.3	0.3	0.3	0.8
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°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
73.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P776142
CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-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: P776142

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8
0.5°	1173.8	1173.5	1173.8	1173.8	1173.8	1173.8
1°	1173.5	1173.3	1173.5	1173.8	1173.8	1173.8
1.5°	1173.5	1173.3	1173.5	1173.5	1173.5	1173.5
2°	1173.0	1172.8	1173.0	1173.3	1173.3	1173.3
2.5°	1172.8	1172.3	1172.8	1172.8	1172.8	1172.5
3°	1172.3	1171.8	1172.3	1172.3	1172.3	1172.0
3.5°	1171.5	1171.3	1171.5	1171.5	1171.5	1171.5
4°	1170.8	1170.3	1170.8	1170.8	1170.8	1170.8
4.5°	1170.0	1169.5	1170.0	1170.0	1170.0	1170.0
5°	1169.0	1168.5	1169.0	1169.0	1169.0	1169.0
5.5°	1168.0	1167.5	1168.0	1168.0	1168.0	1168.0
6°	1166.8	1166.5	1166.8	1166.8	1167.0	1166.8
6.5°	1165.5	1165.3	1165.5	1165.8	1165.8	1165.5
7°	1164.3	1164.0	1164.3	1164.3	1164.3	1164.3
7.5°	1163.0	1162.5	1163.0	1162.8	1162.8	1162.8
8°	1161.3	1161.0	1161.3	1161.3	1161.3	1161.3
8.5°	1159.8	1159.3	1159.8	1159.8	1159.8	1159.8
9°	1158.0	1157.8	1158.0	1158.0	1158.0	1158.0
9.5°	1156.2	1155.7	1156.2	1156.2	1156.2	1156.0
10°	1154.2	1154.0	1154.2	1154.2	1154.2	1154.2
10.5°	1152.2	1152.0	1152.2	1152.2	1152.2	1152.2
11°	1150.2	1149.7	1150.2	1150.0	1150.0	1150.0
11.5°	1148.0	1147.5	1148.0	1147.7	1147.7	1147.7
12°	1145.5	1145.2	1145.5	1145.5	1145.5	1145.5
12.5°	1143.2	1142.7	1143.2	1143.0	1143.0	1143.0
13°	1140.5	1140.2	1140.5	1140.5	1140.5	1140.5
13.5°	1137.9	1137.4	1137.9	1137.9	1137.9	1137.7
14°	1135.2	1134.7	1135.2	1135.2	1135.2	1134.9
14.5°	1132.2	1131.9	1132.2	1132.2	1132.2	1132.2
15°	1129.4	1128.9	1129.4	1129.2	1129.2	1129.2
15.5°	1126.2	1125.9	1126.2	1126.2	1126.2	1126.2
16°	1123.2	1122.7	1123.2	1123.2	1123.2	1122.9
16.5°	1119.9	1119.6	1119.9	1119.9	1119.6	1119.6
17°	1116.4	1116.1	1116.4	1116.6	1116.4	1116.4
17.5°	1113.1	1112.9	1113.1	1113.1	1112.9	1112.9
18°	1109.4	1109.1	1109.4	1109.4	1109.4	1109.4
18.5°	1105.9	1105.4	1105.9	1105.9	1105.6	1105.6
19°	1102.1	1101.6	1102.1	1102.1	1101.8	1101.8
19.5°	1098.1	1097.8	1098.1	1098.1	1098.1	1098.1
20°	1094.1	1093.8	1094.1	1094.1	1094.1	1094.1
20.5°	1090.1	1089.6	1090.1	1090.1	1090.1	1089.8
21°	1085.8	1085.6	1085.8	1085.8	1085.8	1085.8



TEST NUMBER: P776142

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1072.8	1072.3	1072.8	1072.8	1072.8	1072.5
23°	1068.0	1067.8	1068.0	1068.0	1068.0	1068.0
23.5°	1063.5	1063.0	1063.5	1063.5	1063.5	1063.2
24°	1058.5	1058.2	1058.5	1058.7	1058.5	1058.5
24.5°	1053.7	1053.2	1053.7	1054.0	1053.7	1053.5
25°	1048.7	1048.2	1048.7	1048.9	1048.7	1048.7
25.5°	1043.7	1043.2	1043.7	1043.9	1043.7	1043.4
26°	1038.4	1037.9	1038.4	1038.7	1038.4	1038.4
26.5°	1033.2	1032.7	1033.2	1033.4	1033.4	1033.2
27°	1027.9	1027.4	1027.9	1028.1	1027.9	1027.9
27.5°	1022.4	1021.9	1022.4	1022.6	1022.6	1022.4
28°	1016.9	1016.4	1016.9	1017.1	1017.1	1016.9
28.5°	1011.3	1010.8	1011.3	1011.6	1011.3	1011.3
29°	1005.6	1004.8	1005.6	1005.8	1005.8	1005.6
29.5°	999.8	999.1	999.8	1000.1	1000.1	999.8
30°	993.8	993.3	993.8	994.3	994.3	994.0
30.5°	988.0	987.3	988.0	988.3	988.3	988.3
31°	981.8	981.3	981.8	982.5	982.3	982.0
31.5°	975.7	975.0	975.7	976.2	976.2	976.0
32°	969.7	968.7	969.7	970.2	970.2	970.0
32.5°	963.2	962.5	963.2	964.0	964.0	963.7
33°	957.2	956.2	957.2	957.7	957.7	957.2
33.5°	950.7	949.7	950.7	951.4	951.2	950.9
34°	944.2	943.4	944.2	944.9	944.7	944.4
34.5°	937.6	936.9	937.6	938.4	938.1	937.9
35°	931.1	930.1	931.1	931.9	931.6	931.4
35.5°	924.3	923.3	924.3	925.1	925.1	924.6
36°	917.6	916.6	917.6	918.6	918.3	918.1
36.5°	910.8	909.8	910.8	911.8	911.6	911.3
37°	903.8	903.0	903.8	904.8	904.5	904.3
37.5°	896.8	895.8	896.8	898.0	897.8	897.3
38°	889.8	889.0	889.8	891.0	890.5	890.3
38.5°	882.7	881.7	882.7	883.7	883.5	883.0
39°	875.5	874.5	875.5	876.7	876.5	876.0
39.5°	868.2	866.9	868.2	869.2	868.9	868.7
40°	860.7	859.4	860.7	861.7	861.7	861.2
40.5°	852.9	851.9	852.9	854.2	853.9	853.6
41°	845.4	844.1	845.4	846.6	846.4	845.9
41.5°	837.4	836.4	837.4	838.6	838.4	838.1
42°	829.3	828.1	829.3	830.6	830.3	830.1
42.5°	821.1	819.8	821.1	822.3	822.3	821.8
43°	812.5	811.3	812.5	813.8	813.8	813.5
43.5°	803.8	802.5	803.8	805.0	805.0	804.8



TEST NUMBER: P776142

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	775.4	774.2	775.4	776.7	776.9	776.9
45.5°	765.2	763.9	765.2	766.7	766.9	766.9
46°	754.6	753.1	754.6	756.1	756.6	756.6
46.5°	743.3	742.3	743.3	745.1	745.6	745.6
47°	731.8	730.6	731.8	733.3	734.1	734.1
47.5°	719.8	718.5	719.8	721.3	722.0	722.0
48°	707.5	706.5	707.5	709.0	709.5	709.5
48.5°	695.0	693.9	695.0	696.0	696.5	696.5
49°	681.7	681.2	681.7	682.4	682.7	682.7
49.5°	668.1	667.9	668.1	668.9	668.6	668.9
50°	654.3	654.1	654.3	654.8	654.3	654.1
50.5°	640.3	640.3	640.3	640.5	639.8	638.8
51°	626.3	626.8	626.3	625.5	624.8	624.3
51.5°	612.0	612.7	612.0	611.2	610.2	610.0
52°	598.2	599.4	598.2	597.2	596.2	595.7
52.5°	585.1	586.1	585.1	583.9	582.6	582.1
53°	572.1	573.1	572.1	571.1	569.9	569.3
53.5°	558.8	559.6	558.8	558.3	557.8	557.3
54°	545.3	545.3	545.3	545.5	545.5	546.0
54.5°	530.7	529.7	530.7	532.0	533.0	533.5
55°	515.2	513.7	515.2	517.0	518.5	519.5
55.5°	498.7	497.1	498.7	500.2	501.7	502.9
56°	480.6	478.8	480.6	482.1	483.6	484.4
56.5°	461.3	460.0	461.3	462.8	463.3	464.1
57°	440.7	439.2	440.7	442.0	442.2	442.7
57.5°	418.9	417.9	418.9	420.2	420.2	420.2
58°	397.1	396.1	397.1	397.9	397.6	397.4
58.5°	374.6	373.5	374.6	374.8	374.1	374.1
59°	351.7	351.5	351.7	351.5	350.7	350.2
59.5°	329.2	329.2	329.2	328.2	326.9	326.4
60°	306.9	306.6	306.9	304.9	303.4	302.3
60.5°	284.0	284.3	284.0	281.8	279.8	278.5
61°	261.5	262.2	261.5	259.0	257.0	255.5
61.5°	239.2	240.7	239.2	236.9	234.2	232.9
62°	217.9	219.9	217.9	215.1	212.1	210.3
62.5°	197.1	199.1	197.1	194.0	190.0	188.0
63°	176.7	179.0	176.7	173.5	169.0	166.7
63.5°	157.4	161.2	157.4	153.4	148.7	146.4
64°	139.4	143.7	139.4	134.1	129.4	126.9
64.5°	121.8	125.9	121.8	116.3	111.3	108.1
65°	104.8	108.3	104.8	99.5	94.8	90.5
65.5°	88.5	91.8	88.5	83.5	79.2	74.5
66°	73.7	76.7	73.7	68.7	65.4	59.7



TEST NUMBER: P776142

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	38.6	40.9	38.6	34.3	30.8	22.8
68°	29.1	31.8	29.1	26.1	21.3	13.3
68.5°	22.1	25.3	22.1	18.8	14.3	5.0
69°	15.3	18.8	15.3	12.0	8.5	2.5
69.5°	10.0	13.5	10.0	6.8	3.8	1.5
70°	5.8	8.3	5.8	3.8	1.8	0.8
70.5°	2.8	3.3	2.8	2.3	1.0	0.3
71°	1.5	1.3	1.5	1.3	0.5	0.3
71.5°	0.8	0.3	0.8	0.8	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	0.0	0.0	0.0
73.5°	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	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: P776142

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-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°	1081.5	1081.5	1081.5	1081.5	1081.0	1081.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.5
22°	1077.0	1077.0	1077.3	1077.3	1076.8	1077.3	1077.3	1077.0	1077.0	1077.0	1077.0	1077.3



44°	795.7	796.0	795.7	794.5	793.5	794.5	795.7	796.0	795.7	796.0	795.7
44.5°	786.5	786.7	786.7	785.2	783.7	785.2	786.7	786.7	786.5	786.7	786.7



66.5°	47.1	52.9	55.7	60.4	63.2	60.4	55.7	52.9	47.1	52.9	55.7
67°	34.8	40.6	44.6	48.6	50.9	48.6	44.6	40.6	34.8	40.6	44.6



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°	1081.5	1081.0	1081.5	1081.5	1081.5	1081.5
22°	1077.3	1076.8	1077.3	1077.3	1077.0	1077.0



44°	794.5	793.5	794.5	795.7	796.0	795.7
44.5°	785.2	783.7	785.2	786.7	786.7	786.5

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

Scaled Data Report



66.5°	60.4	63.2	60.4	55.7	52.9	47.1
67°	48.6	50.9	48.6	44.6	40.6	34.8

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

Scaled Data Report



89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



(END OF REPORT)