

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: P776190

Luminaire Tested: HCDJBS1525CSD-HCD8TRMB-2500lm-2700K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776190  
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-HCD8TRMB-2500lm-2700K  
Description: 8 INCH ROUND MEDIUM MATTE BLACK TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1786.5 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

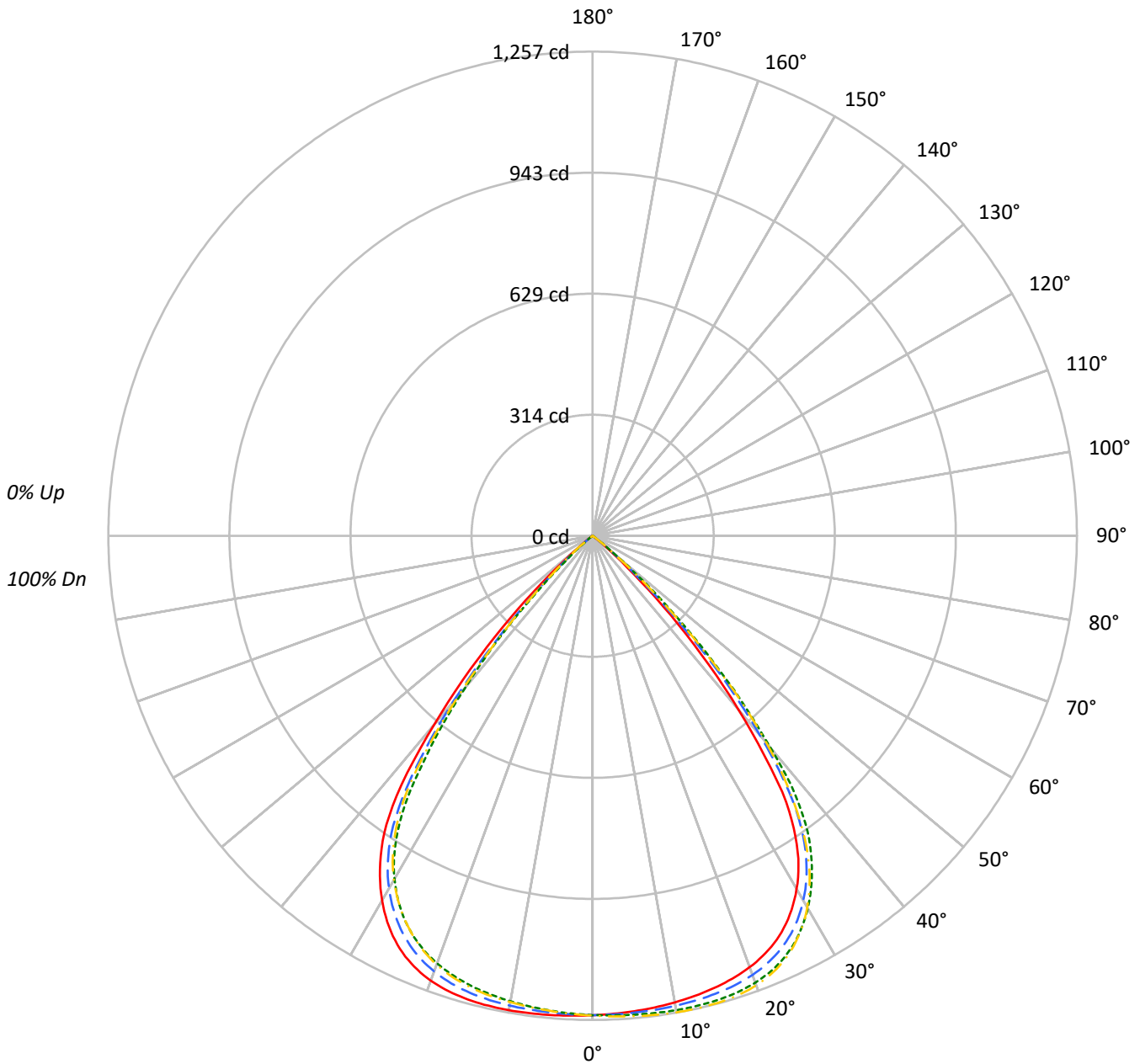
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P776190

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P776190

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-2700K

**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	99	97	97	95	94	93
	1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93	93	92	90	94	91	89	85
	2	107	102	97	94	105	100	96	92	97	93	90	94	91	89	91	89	87	85	85	82	79	85	82	79	78
	3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78	78	75	74	79	76	73	71
	4	95	87	81	76	93	85	80	76	83	78	75	81	77	74	79	76	73	71	71	68	67	74	70	67	65
	5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65	65	62	62	67	63	61	60
	6	84	74	68	63	83	74	67	63	72	66	62	70	66	62	69	65	61	60	60	57	57	65	60	57	55
	7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55	55	53	53	65	60	57	55
	8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51	51	49	49	60	56	52	51
	9	71	60	53	49	69	59	53	49	58	53	49	57	52	49	57	52	48	47	47	45	45	57	52	48	47
	10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	43	43	41	41	53	48	45	43

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	38001	38001	38001	38001
5°	37968	38250	38272	37932
10°	38132	38767	38776	38048
15°	38431	39449	39405	38264
20°	38724	40112	39930	38370
25°	38601	40299	39858	37941
30°	37330	39371	38525	36272
35°	33581	36723	35131	31494
40°	23502	28540	25491	20457
45°	11191	15962	13035	8450
50°	2280	4279	2427	1083
55°	101	154	90	64
60°	31	31	31	31
65°	14	14	14	14
70°	18	18	18	18
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 15962 cd/sqm



TEST NUMBER: P776190

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.6	6.6
10°-20°	348.1	19.5
20°-30°	533.1	29.8
30°-40°	554.8	31.1
40°-50°	224.0	12.5
50°-60°	7.7	0.4
60°-70°	0.3	0.0
70°-80°	0.0	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°	999.8	56.0
0°-40°	1554.5	87.0
0°-60°	1786.2	100.0
0°-90°	1786.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1786.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1245	1245	1245	1245	1245	
5°	1239	1248	1249	1238	1239	118
15°	1216	1248	1247	1211	1216	344
25°	1146	1196	1183	1126	1146	525
35°	901	985	943	845	901	542
45°	259	370	302	196	259	208
55°	2	3	2	1	2	6
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: P776190

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7
0.5°	1244.2	1243.8	1244.2	1244.5	1244.7	1245.9	1246.4	1246.4	1245.2	1244.5	1244.2
1°	1243.8	1243.8	1244.2	1244.7	1245.2	1246.7	1247.2	1246.9	1245.7	1244.7	1244.0
1.5°	1243.3	1243.3	1244.2	1245.0	1245.7	1247.2	1247.9	1247.6	1246.2	1244.7	1244.0
2°	1242.8	1243.0	1244.0	1245.2	1246.2	1247.6	1248.4	1248.1	1246.4	1245.0	1244.0
2.5°	1242.3	1242.6	1244.0	1245.5	1246.4	1248.1	1249.1	1248.6	1246.9	1245.2	1243.8
3°	1241.6	1242.3	1243.8	1245.5	1246.7	1248.8	1249.6	1249.3	1247.4	1245.5	1243.5
3.5°	1241.1	1241.8	1243.8	1245.5	1247.2	1249.1	1250.1	1249.8	1247.9	1245.5	1243.3
4°	1240.4	1241.3	1243.3	1245.7	1247.4	1249.6	1250.8	1250.3	1248.4	1245.5	1243.3
4.5°	1239.6	1240.9	1243.0	1245.7	1247.6	1250.3	1251.3	1250.8	1248.6	1245.7	1242.8
5°	1238.9	1240.4	1242.8	1245.7	1248.1	1250.8	1251.8	1251.5	1248.8	1245.7	1242.6
5.5°	1238.2	1239.6	1242.6	1245.9	1248.4	1251.3	1252.5	1252.0	1249.3	1245.7	1242.3
6°	1237.5	1239.2	1242.3	1245.9	1248.6	1251.8	1253.0	1252.2	1249.6	1245.9	1242.1
6.5°	1236.7	1238.4	1241.8	1245.9	1249.1	1252.2	1253.5	1252.7	1249.8	1245.9	1241.8
7°	1236.0	1237.7	1241.6	1245.9	1249.3	1252.5	1253.9	1253.2	1250.1	1245.7	1241.3
7.5°	1235.0	1237.0	1241.3	1246.2	1249.6	1253.0	1254.4	1253.7	1250.3	1245.7	1241.1
8°	1234.1	1236.3	1240.9	1245.9	1249.8	1253.5	1254.9	1253.9	1250.5	1245.9	1240.6
8.5°	1233.1	1235.3	1240.4	1246.2	1250.1	1253.7	1255.1	1254.4	1250.5	1245.7	1240.1
9°	1232.1	1234.6	1239.9	1245.9	1250.3	1253.9	1255.6	1254.7	1250.8	1245.5	1239.9
9.5°	1230.9	1233.6	1239.4	1245.9	1250.3	1254.2	1255.9	1254.9	1250.8	1245.5	1239.2
10°	1230.0	1232.6	1238.9	1245.7	1250.5	1254.4	1256.1	1255.1	1250.8	1245.2	1238.7
10.5°	1228.7	1231.6	1238.4	1245.7	1250.5	1254.7	1256.4	1255.1	1250.8	1245.0	1237.9
11°	1227.5	1230.7	1237.7	1245.5	1250.5	1254.9	1256.6	1255.4	1250.5	1244.5	1237.2
11.5°	1226.3	1229.5	1237.0	1245.2	1250.5	1254.9	1256.6	1255.4	1250.5	1244.0	1236.5
12°	1225.1	1228.3	1236.5	1245.0	1250.5	1254.9	1256.8	1255.4	1250.3	1243.5	1235.5
12.5°	1223.7	1227.3	1235.8	1244.7	1250.3	1254.9	1256.8	1255.1	1249.8	1243.0	1234.8
13°	1222.2	1225.8	1234.8	1244.2	1250.1	1254.9	1256.6	1255.1	1249.6	1242.3	1233.6
13.5°	1220.7	1224.6	1234.1	1243.8	1249.6	1254.9	1256.4	1254.9	1249.1	1241.3	1232.6
14°	1219.1	1223.4	1233.1	1243.3	1249.1	1254.4	1256.1	1254.7	1248.4	1240.6	1231.2
14.5°	1217.6	1222.0	1232.1	1242.6	1248.8	1254.2	1255.9	1254.2	1247.6	1239.6	1230.0
15°	1215.9	1220.5	1230.9	1241.8	1248.1	1253.7	1255.4	1253.7	1246.7	1238.4	1228.5
15.5°	1214.0	1219.1	1229.7	1240.9	1247.6	1253.2	1254.7	1253.0	1245.7	1237.2	1226.8
16°	1212.0	1217.4	1228.5	1239.9	1246.7	1252.5	1253.9	1252.0	1244.5	1235.8	1225.1
16.5°	1210.1	1215.7	1227.0	1238.9	1245.7	1251.5	1253.2	1251.0	1243.3	1234.1	1223.2
17°	1207.9	1213.7	1225.6	1237.5	1244.7	1250.5	1252.0	1249.6	1241.8	1232.4	1221.0
17.5°	1205.5	1211.8	1223.9	1236.0	1243.5	1249.3	1250.8	1248.4	1240.4	1230.4	1218.6
18°	1203.1	1209.8	1222.0	1234.3	1242.1	1247.9	1249.6	1246.7	1238.4	1228.3	1215.9
18.5°	1200.6	1207.4	1220.3	1232.6	1240.6	1246.2	1247.9	1244.7	1236.5	1225.8	1213.2
19°	1197.7	1205.2	1218.1	1230.7	1238.7	1244.2	1246.2	1242.8	1234.1	1223.2	1210.3
19.5°	1194.8	1202.6	1215.7	1228.3	1236.7	1242.3	1244.2	1240.4	1231.6	1220.3	1206.9
20°	1191.9	1199.9	1213.2	1225.8	1234.6	1240.1	1241.8	1237.9	1229.0	1217.1	1203.3
20.5°	1188.5	1197.0	1210.3	1223.2	1232.1	1237.5	1239.4	1235.0	1225.8	1213.7	1199.4
21°	1184.9	1193.9	1207.4	1220.3	1229.2	1234.6	1236.5	1232.1	1222.7	1209.8	1195.6



TEST NUMBER: P776190

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1172.8	1183.2	1196.8	1209.8	1219.8	1224.1	1225.8	1220.7	1210.6	1197.0	1181.3
23°	1168.2	1179.1	1192.6	1205.7	1215.9	1220.0	1221.7	1216.4	1206.0	1191.9	1175.9
23.5°	1163.1	1174.7	1188.3	1201.1	1211.3	1215.4	1217.1	1211.3	1200.9	1186.3	1170.4
24°	1157.8	1169.9	1183.4	1196.5	1207.2	1210.6	1212.3	1206.2	1195.6	1180.8	1164.3
24.5°	1152.2	1165.0	1178.4	1191.2	1202.3	1205.2	1206.5	1200.6	1189.5	1174.5	1157.8
25°	1145.9	1159.5	1173.0	1185.6	1196.3	1199.7	1200.9	1194.6	1183.2	1167.9	1151.0
25.5°	1139.6	1153.6	1167.0	1179.8	1190.7	1193.4	1194.3	1188.0	1176.4	1160.9	1144.0
26°	1132.6	1147.1	1160.7	1173.5	1184.7	1186.8	1187.6	1181.0	1169.1	1153.4	1136.2
26.5°	1125.3	1140.6	1154.1	1166.7	1177.9	1179.3	1180.0	1173.5	1161.4	1145.4	1128.0
27°	1117.3	1133.0	1146.9	1159.7	1170.1	1171.8	1172.1	1165.5	1153.2	1137.2	1119.5
27.5°	1108.8	1125.5	1139.1	1152.2	1162.8	1163.8	1163.8	1157.0	1144.4	1128.2	1110.0
28°	1099.9	1117.1	1130.9	1144.0	1154.6	1154.9	1155.1	1147.8	1135.2	1118.8	1100.6
28.5°	1090.4	1108.1	1122.4	1135.7	1145.9	1145.6	1145.4	1138.1	1125.3	1108.6	1090.7
29°	1080.2	1098.6	1113.2	1126.8	1136.7	1136.0	1135.7	1128.0	1115.1	1098.4	1080.0
29.5°	1070.1	1089.0	1103.7	1117.3	1127.2	1125.5	1125.1	1117.3	1104.2	1087.5	1068.9
30°	1058.9	1078.3	1093.6	1107.6	1116.8	1114.6	1113.9	1106.2	1092.8	1076.4	1057.2
30.5°	1047.5	1067.2	1082.9	1097.2	1106.4	1103.3	1102.3	1094.3	1081.0	1064.5	1045.1
31°	1034.9	1055.0	1071.8	1086.1	1095.0	1090.9	1089.7	1081.7	1068.6	1051.9	1032.0
31.5°	1021.9	1042.7	1060.1	1074.7	1083.1	1078.5	1077.1	1068.6	1055.8	1038.8	1018.2
32°	1008.0	1029.1	1047.3	1063.0	1071.0	1065.5	1062.8	1054.8	1042.0	1025.2	1003.4
32.5°	993.3	1014.6	1033.7	1050.2	1058.7	1051.2	1048.0	1040.0	1027.4	1011.0	987.2
33°	977.0	999.3	1019.4	1037.1	1044.9	1036.4	1032.8	1024.3	1012.4	995.7	970.7
33.5°	960.3	982.6	1003.9	1023.3	1031.1	1021.1	1016.3	1008.0	996.9	979.7	953.0
34°	941.7	965.6	988.4	1008.8	1016.5	1005.1	999.1	990.6	980.2	962.5	934.2
34.5°	922.0	947.0	971.0	993.5	1001.3	987.7	980.4	972.2	962.0	943.6	913.6
35°	901.0	926.6	953.0	976.8	985.3	969.0	960.3	952.3	942.6	922.5	889.8
35.5°	879.2	904.6	933.2	958.9	967.6	948.2	939.2	930.8	921.3	899.0	864.9
36°	855.2	881.1	912.6	939.2	948.9	926.9	917.0	907.7	898.1	874.3	838.2
36.5°	827.1	855.7	889.3	917.0	928.3	902.9	893.0	883.8	872.9	846.9	808.7
37°	794.9	826.1	863.9	893.9	905.1	879.2	868.7	858.6	845.5	817.4	777.7
37.5°	760.2	793.2	836.5	868.3	880.9	852.8	843.5	832.6	815.0	784.0	744.2
38°	725.8	759.7	807.5	842.8	855.2	825.6	818.1	805.3	781.5	748.3	710.8
38.5°	690.4	727.0	776.7	813.0	827.1	796.1	791.5	777.2	746.2	712.0	675.7
39°	656.5	696.0	744.5	783.5	793.2	766.0	763.4	747.4	710.1	674.0	639.1
39.5°	623.1	664.3	710.5	750.5	754.6	733.6	731.9	715.9	674.0	636.7	601.8
40°	589.7	633.3	675.7	717.1	716.1	699.9	700.9	682.4	639.6	599.8	564.7
40.5°	555.0	599.1	641.0	679.8	679.3	664.3	670.6	648.8	606.1	563.5	525.2
41°	519.9	563.5	606.1	642.0	645.6	629.4	637.1	614.4	572.2	528.1	486.9
41.5°	485.7	526.7	570.3	604.0	612.2	593.1	603.0	578.5	537.8	492.0	449.6
42°	451.3	491.8	534.9	565.2	578.0	559.1	567.9	542.9	502.2	456.4	415.5
42.5°	418.1	457.4	499.3	526.2	543.6	525.0	531.8	507.5	467.8	420.8	378.7
43°	386.2	423.2	463.2	489.1	506.6	491.1	494.2	471.0	432.4	385.0	345.2
43.5°	353.5	389.8	426.1	451.3	470.5	456.4	458.1	435.6	399.2	351.0	311.8



TEST NUMBER: P776190

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	259.2	288.8	315.7	347.4	369.7	353.0	347.6	333.3	301.9	261.9	224.6
45.5°	228.7	256.6	281.7	314.5	337.0	319.8	314.0	299.4	271.1	234.3	196.7
46°	200.8	225.8	250.0	284.4	304.8	287.3	279.6	267.2	242.0	206.9	168.9
46.5°	173.5	196.2	220.0	254.6	271.8	257.8	251.0	237.9	212.9	179.5	141.2
47°	147.5	168.4	191.6	226.0	243.7	228.0	222.4	208.8	183.9	151.9	119.7
47.5°	123.3	141.2	165.9	198.4	215.6	198.2	193.8	179.8	154.8	128.2	100.1
48°	102.0	117.0	141.7	171.3	187.5	168.4	165.2	150.4	129.9	106.4	82.6
48.5°	82.9	95.2	119.9	146.3	159.4	138.6	136.6	125.7	106.8	86.5	66.9
49°	71.2	77.5	100.5	123.6	135.2	113.1	114.3	102.2	85.8	68.6	53.5
49.5°	59.6	65.4	82.4	103.0	111.7	91.6	92.5	81.9	67.3	53.1	41.7
50°	48.0	53.3	70.3	84.1	90.1	72.7	72.7	64.0	51.1	44.1	34.4
50.5°	36.1	41.2	58.4	71.2	70.5	55.7	55.7	48.0	42.2	34.9	27.4
51°	24.7	29.3	46.5	58.6	53.3	46.0	45.8	39.5	33.2	25.9	20.1
51.5°	17.9	22.0	34.6	46.0	44.1	36.1	36.1	31.0	24.2	16.7	12.8
52°	12.4	15.7	22.8	33.4	34.9	26.4	26.2	22.5	15.3	7.5	5.8
52.5°	7.8	10.4	15.5	20.8	25.4	16.7	16.2	14.1	6.5	4.8	3.9
53°	6.5	9.0	9.7	13.3	16.2	7.3	6.5	5.3	4.4	3.6	3.1
53.5°	5.1	7.3	8.0	7.8	7.3	4.6	4.4	3.9	3.4	2.9	2.4
54°	3.6	5.6	6.1	6.3	4.6	3.6	3.4	3.1	2.7	2.2	1.9
54.5°	2.4	3.9	4.4	4.8	3.6	2.9	2.7	2.4	1.9	1.7	1.5
55°	1.9	2.2	2.7	3.6	2.9	2.2	2.2	1.9	1.7	1.5	1.2
55.5°	1.5	1.7	1.9	2.2	2.2	1.7	1.7	1.5	1.2	1.2	1.0
56°	1.2	1.5	1.7	1.7	1.7	1.2	1.2	1.2	1.0	1.0	1.0
56.5°	1.0	1.2	1.2	1.5	1.2	1.0	1.0	1.0	1.0	0.7	0.7
57°	1.0	1.0	1.0	1.2	1.0	1.0	1.0	1.0	0.7	0.7	0.7
57.5°	0.7	0.7	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.7
58°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5
58.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5
59°	0.5	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5
59.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
61°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
61.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
62°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2
62.5°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2
63°	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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: P776190

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-2700K

**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	0.2	0.2	0.2	0.2	0.2	0.2	0.2
68°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
68.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
69°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
71.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
72°	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73°	0.0	0.0	0.0	0.0	0.0	0.0	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: P776190

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-2500lm-2700K

**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: P776190

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7
0.5°	1244.0	1243.8	1244.7	1245.2	1245.2	1244.2
1°	1243.8	1243.3	1244.0	1244.5	1244.5	1243.8
1.5°	1243.3	1242.6	1243.3	1243.8	1243.8	1243.3
2°	1242.8	1242.1	1242.6	1243.0	1243.0	1242.8
2.5°	1242.6	1241.3	1242.1	1242.3	1242.6	1242.3
3°	1242.1	1240.9	1241.3	1241.6	1241.6	1241.6
3.5°	1241.3	1240.1	1240.4	1240.9	1240.9	1241.1
4°	1241.1	1239.4	1239.6	1240.1	1240.1	1240.4
4.5°	1240.4	1238.4	1238.9	1239.4	1239.4	1239.6
5°	1239.9	1237.7	1237.9	1238.4	1238.9	1238.9
5.5°	1239.2	1237.0	1237.2	1237.7	1237.9	1238.2
6°	1238.7	1236.0	1236.3	1237.0	1237.2	1237.5
6.5°	1237.9	1235.0	1235.5	1236.0	1236.5	1236.7
7°	1237.0	1234.1	1234.6	1235.3	1235.8	1236.0
7.5°	1236.3	1233.1	1233.6	1234.3	1234.8	1235.0
8°	1235.5	1232.1	1232.6	1233.6	1234.1	1234.1
8.5°	1234.6	1230.9	1231.4	1232.6	1233.1	1233.1
9°	1233.6	1229.7	1230.4	1231.6	1232.1	1232.1
9.5°	1232.9	1228.5	1229.2	1230.7	1231.2	1230.9
10°	1231.6	1227.3	1228.0	1229.7	1230.2	1230.0
10.5°	1230.7	1225.8	1226.8	1228.5	1229.0	1228.7
11°	1229.5	1224.6	1225.6	1227.5	1228.0	1227.5
11.5°	1228.3	1222.9	1224.1	1226.3	1226.8	1226.3
12°	1227.0	1221.5	1222.7	1225.1	1225.6	1225.1
12.5°	1225.6	1220.0	1221.0	1223.7	1224.4	1223.7
13°	1224.1	1218.3	1219.3	1222.2	1222.9	1222.2
13.5°	1222.4	1216.6	1217.8	1220.7	1221.2	1220.7
14°	1221.0	1214.7	1215.9	1219.1	1219.8	1219.1
14.5°	1219.1	1212.8	1214.0	1217.1	1218.1	1217.6
15°	1217.4	1210.6	1212.0	1215.2	1216.1	1215.9
15.5°	1215.4	1208.4	1209.6	1213.2	1214.2	1214.0
16°	1213.0	1206.0	1207.4	1210.8	1212.0	1212.0
16.5°	1210.8	1203.5	1205.0	1208.4	1209.8	1210.1
17°	1208.4	1200.9	1202.1	1205.7	1207.4	1207.9
17.5°	1205.7	1198.0	1199.4	1202.8	1204.8	1205.5
18°	1202.8	1194.8	1196.3	1199.7	1201.9	1203.1
18.5°	1199.7	1191.9	1193.1	1196.3	1198.7	1200.6
19°	1196.5	1188.5	1189.7	1192.6	1195.6	1197.7
19.5°	1193.1	1184.7	1186.1	1188.8	1191.9	1194.8
20°	1189.3	1181.0	1182.2	1184.7	1188.0	1191.9
20.5°	1185.4	1176.9	1178.1	1180.3	1183.9	1188.5
21°	1181.0	1172.5	1173.7	1175.4	1179.8	1184.9



TEST NUMBER: P776190

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1166.7	1157.8	1158.7	1159.5	1164.8	1172.8
23°	1161.4	1152.2	1153.2	1153.4	1159.2	1168.2
23.5°	1155.3	1146.4	1147.1	1147.3	1153.2	1163.1
24°	1149.3	1140.1	1141.0	1140.8	1146.9	1157.8
24.5°	1142.7	1133.3	1134.3	1133.8	1140.3	1152.2
25°	1135.7	1126.3	1127.2	1126.3	1133.3	1145.9
25.5°	1128.4	1118.8	1119.5	1118.8	1125.8	1139.6
26°	1120.5	1111.0	1111.5	1110.5	1118.3	1132.6
26.5°	1112.2	1102.5	1103.3	1102.3	1110.0	1125.3
27°	1103.5	1093.3	1094.5	1093.3	1101.6	1117.3
27.5°	1094.0	1083.9	1085.3	1084.1	1092.3	1108.8
28°	1084.1	1073.9	1075.6	1073.9	1082.9	1099.9
28.5°	1073.7	1063.3	1065.5	1064.2	1072.7	1090.4
29°	1063.0	1052.4	1054.8	1053.3	1062.3	1080.2
29.5°	1051.6	1040.7	1043.9	1042.7	1051.9	1070.1
30°	1039.5	1028.9	1032.0	1031.1	1040.7	1058.9
30.5°	1026.5	1015.6	1020.2	1019.7	1029.1	1047.5
31°	1012.2	1002.0	1007.1	1006.8	1016.8	1034.9
31.5°	997.1	986.7	993.3	993.7	1003.4	1021.9
32°	981.2	971.0	978.0	978.7	988.9	1008.0
32.5°	963.7	953.5	962.3	963.2	973.4	993.3
33°	946.0	935.4	944.8	946.3	956.9	977.0
33.5°	926.2	915.7	927.6	929.6	940.5	960.3
34°	905.8	893.9	909.0	911.4	922.5	941.7
34.5°	883.5	870.7	888.9	891.3	903.1	922.0
35°	859.1	845.0	867.0	869.2	881.8	901.0
35.5°	831.4	816.7	842.1	845.5	858.6	879.2
36°	802.4	785.2	814.2	818.6	833.1	855.2
36.5°	769.7	752.2	783.0	789.0	804.3	827.1
37°	736.7	720.2	748.8	756.8	772.3	794.9
37.5°	702.1	689.2	712.0	723.4	737.7	760.2
38°	669.4	657.3	674.7	687.5	702.6	725.8
38.5°	635.7	625.5	639.3	651.7	666.9	690.4
39°	603.2	588.4	605.2	613.4	630.8	656.5
39.5°	569.8	551.1	572.5	576.8	594.3	623.1
40°	535.4	513.3	538.3	540.0	556.7	589.7
40.5°	499.5	480.6	502.7	502.9	521.1	555.0
41°	462.7	448.2	467.6	466.1	486.5	519.9
41.5°	425.7	416.7	433.2	429.3	451.8	485.7
42°	390.0	383.5	399.7	394.6	417.4	451.3
42.5°	354.2	350.1	367.3	361.7	382.3	418.1
43°	319.1	317.1	335.8	329.7	348.9	386.2
43.5°	285.4	284.4	304.5	298.9	316.4	353.5



TEST NUMBER: P776190

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	198.4	195.7	215.4	214.6	228.7	259.2
45.5°	169.3	167.9	188.2	190.4	202.3	228.7
46°	140.3	140.3	163.3	167.6	178.1	200.8
46.5°	117.7	115.8	140.3	146.1	155.5	173.5
47°	98.1	93.3	118.7	126.2	134.2	147.5
47.5°	80.4	80.4	98.8	107.6	114.8	123.3
48°	65.4	67.8	81.2	91.3	97.1	102.0
48.5°	52.1	55.2	68.8	78.7	80.9	82.9
49°	41.2	42.6	56.7	66.4	68.8	71.2
49.5°	34.2	30.0	44.8	54.3	56.7	59.6
50°	27.4	22.8	32.7	41.9	44.3	48.0
50.5°	20.6	16.7	24.2	29.6	32.5	36.1
51°	13.8	11.6	17.7	21.6	23.7	24.7
51.5°	7.0	7.3	11.9	14.5	16.5	17.9
52°	4.6	5.8	7.5	9.0	10.7	12.4
52.5°	3.4	4.6	6.1	7.3	9.0	7.8
53°	2.9	3.6	4.8	5.6	7.3	6.5
53.5°	2.2	2.4	3.6	4.1	5.6	5.1
54°	1.7	1.9	2.4	2.4	3.9	3.6
54.5°	1.5	1.5	1.9	1.9	2.2	2.4
55°	1.2	1.2	1.5	1.5	1.7	1.9
55.5°	1.0	1.0	1.2	1.2	1.5	1.5
56°	1.0	1.0	1.0	1.0	1.2	1.2
56.5°	0.7	0.7	1.0	1.0	1.0	1.0
57°	0.7	0.7	0.7	0.7	0.7	1.0
57.5°	0.7	0.7	0.7	0.7	0.7	0.7
58°	0.5	0.5	0.7	0.7	0.7	0.7
58.5°	0.5	0.5	0.5	0.7	0.7	0.7
59°	0.5	0.5	0.5	0.5	0.5	0.5
59.5°	0.5	0.5	0.5	0.5	0.5	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5
60.5°	0.5	0.5	0.5	0.5	0.5	0.5
61°	0.5	0.5	0.5	0.5	0.5	0.5
61.5°	0.5	0.5	0.5	0.5	0.5	0.5
62°	0.2	0.5	0.5	0.5	0.5	0.5
62.5°	0.2	0.2	0.5	0.5	0.5	0.5
63°	0.2	0.2	0.2	0.2	0.2	0.2
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: P776190

CATALOG NUMBER: HCDJBL1525CSD-HCD8TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.2	0.2	0.2	0.2	0.2	0.2
68°	0.2	0.2	0.2	0.2	0.2	0.2
68.5°	0.2	0.2	0.2	0.2	0.2	0.2
69°	0.2	0.2	0.2	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2
70.5°	0.2	0.2	0.2	0.2	0.2	0.2
71°	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.0	0.2	0.2	0.2	0.2	0.2
72°	0.0	0.0	0.2	0.2	0.2	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0
73°	0.0	0.0	0.0	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: P776190

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-2500lm-2700K

**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°	1181.3	1190.7	1204.3	1217.1	1226.3	1231.4	1233.3	1228.5	1219.1	1206.0	1191.2
22°	1177.1	1187.1	1200.6	1213.5	1223.4	1228.0	1229.7	1224.9	1214.9	1201.6	1186.6



44°	321.2	356.6	388.3	415.7	435.6	421.8	419.8	401.7	366.5	319.1	280.1
44.5°	289.7	322.7	351.0	380.3	401.7	387.1	384.7	367.3	334.6	289.3	252.2



66.5°	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



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



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

Scaled Data Report



21.5°	1176.7	1167.9	1169.1	1170.6	1175.0	1181.3
22°	1171.8	1163.1	1164.1	1165.3	1170.1	1177.1



44°	256.3	253.4	274.2	268.7	285.4	321.2
44.5°	227.5	224.3	244.0	240.8	256.3	289.7

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

Scaled Data Report



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)