

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: P775918

Luminaire Tested: HCDJBS1525CSD-HCD42TRMW-1500lm-4000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775918  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156A001)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS1525CSD-HCD42TRMW-1500lm-4000K  
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

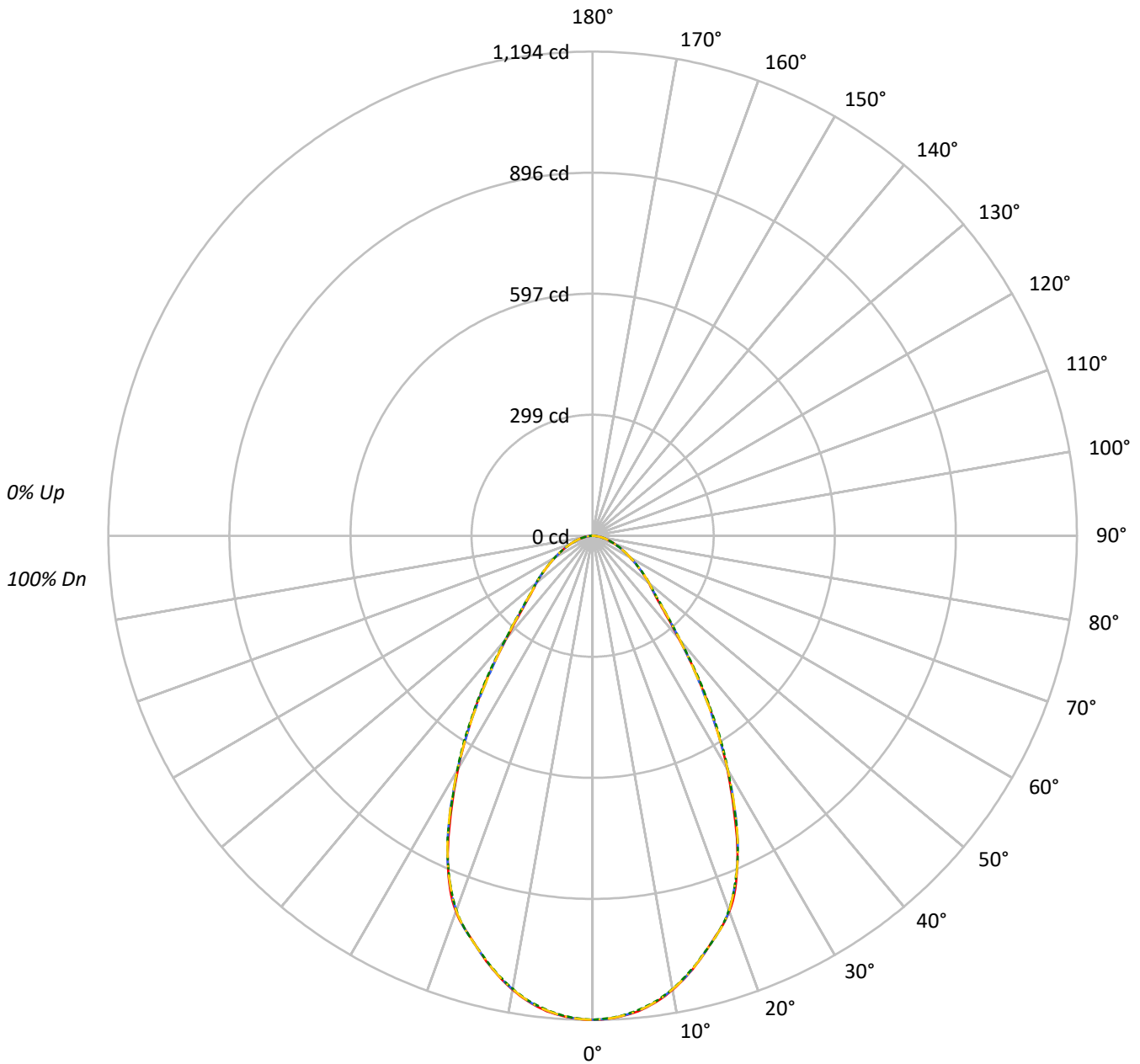
Lumens per Lamp: N/A  
Luminaire Lumens: 1541.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.97 / 0.95  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 15  
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: P775918  
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P775918

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-4000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64																			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53																			
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49																			
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45																			
9	67	56	49	44	66	55	48	44	54	48	44	53	48	44	52	47	43	42																			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39																			

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

	0°	90°	180°	270°
0°	150189	150189	150189	150189
5°	149133	148805	149133	148805
10°	145273	144954	145273	144954
15°	138849	138680	138849	138680
20°	132025	131556	132025	131556
25°	117184	117559	117184	117559
30°	96405	96928	96405	96928
35°	74789	75603	74789	75603
40°	54329	55266	54329	55266
45°	41131	42163	41131	42163
50°	35418	35712	35418	35712
55°	30784	31135	30784	31135
60°	26907	27158	26907	27158
65°	23644	23853	23644	23853
70°	20863	21011	20863	21011
75°	18331	18331	18331	18331
80°	15872	15727	15872	15727
85°	12707	12707	12707	12707

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 42163 cd/sqm



TEST NUMBER: P775918

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.2	7.2
10°-20°	299.4	19.4
20°-30°	383.4	24.9
30°-40°	303.8	19.7
40°-50°	186.0	12.1
50°-60°	127.2	8.3
60°-70°	79.6	5.2
70°-80°	40.3	2.6
80°-90°	10.2	0.7
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°	793.9	51.5
0°-40°	1097.7	71.2
0°-60°	1410.9	91.6
0°-90°	1541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1541.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1193	1193	1193	1193	1193	
5°	1180	1178	1180	1178	1180	111
15°	1066	1064	1066	1064	1066	299
25°	844	847	844	847	844	383
35°	487	492	487	492	487	303
45°	231	237	231	237	231	184
55°	140	142	140	142	140	126
65°	79	80	79	80	79	79
75°	38	38	38	38	38	40
85°	9	9	9	9	9	10
90°	0	0	0	0	0	



TEST NUMBER: P775918

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1193.4	1193.4	1193.4	1193.4	1193.4	1193.4	1193.4	1193.4	1193.4	1193.4	1193.4
0.5°	1193.6	1193.4	1193.1	1192.9	1192.5	1192.9	1193.1	1193.4	1193.6	1193.4	1193.1
1°	1193.1	1192.9	1192.8	1192.6	1192.0	1192.6	1192.8	1192.9	1193.1	1192.9	1192.8
1.5°	1192.5	1192.1	1192.1	1191.8	1191.3	1191.8	1192.1	1192.1	1192.5	1192.1	1192.1
2°	1191.5	1191.3	1191.0	1190.9	1190.2	1190.9	1191.0	1191.3	1191.5	1191.3	1191.0
2.5°	1190.4	1190.1	1189.7	1189.6	1188.8	1189.6	1189.7	1190.1	1190.4	1190.1	1189.7
3°	1188.8	1188.5	1188.1	1187.8	1187.0	1187.8	1188.1	1188.5	1188.8	1188.5	1188.1
3.5°	1187.0	1186.7	1186.2	1185.9	1185.4	1185.9	1186.2	1186.7	1187.0	1186.7	1186.2
4°	1185.0	1184.8	1184.2	1183.8	1183.0	1183.8	1184.2	1184.8	1185.0	1184.8	1184.2
4.5°	1182.7	1182.4	1181.8	1181.4	1180.5	1181.4	1181.8	1182.4	1182.7	1182.4	1181.8
5°	1180.5	1180.0	1179.4	1179.0	1177.9	1179.0	1179.4	1180.0	1180.5	1180.0	1179.4
5.5°	1178.1	1177.0	1176.2	1175.8	1174.9	1175.8	1176.2	1177.0	1178.1	1177.0	1176.2
6°	1174.4	1173.8	1173.0	1172.5	1171.2	1172.5	1173.0	1173.8	1174.4	1173.8	1173.0
6.5°	1170.7	1170.2	1169.3	1168.8	1167.5	1168.8	1169.3	1170.2	1170.7	1170.2	1169.3
7°	1166.9	1166.3	1165.8	1165.0	1163.9	1165.0	1165.8	1166.3	1166.9	1166.3	1165.8
7.5°	1162.6	1161.9	1161.3	1161.0	1159.9	1161.0	1161.3	1161.9	1162.6	1161.9	1161.3
8°	1157.9	1157.5	1156.8	1156.3	1155.7	1156.3	1156.8	1157.5	1157.9	1157.5	1156.8
8.5°	1153.1	1152.5	1151.9	1151.4	1150.7	1151.4	1151.9	1152.5	1153.1	1152.5	1151.9
9°	1148.0	1147.6	1146.8	1146.3	1145.6	1146.3	1146.8	1147.6	1148.0	1147.6	1146.8
9.5°	1142.4	1142.1	1141.3	1140.8	1140.2	1140.8	1141.3	1142.1	1142.4	1142.1	1141.3
10°	1136.8	1136.4	1135.7	1135.1	1134.3	1135.1	1135.7	1136.4	1136.8	1136.4	1135.7
10.5°	1130.6	1130.3	1129.5	1129.0	1128.4	1129.0	1129.5	1130.3	1130.6	1130.3	1129.5
11°	1124.4	1124.1	1123.4	1122.8	1122.0	1122.8	1123.4	1124.1	1124.4	1124.1	1123.4
11.5°	1117.8	1117.5	1116.9	1116.2	1115.6	1116.2	1116.9	1117.5	1117.8	1117.5	1116.9
12°	1111.1	1110.8	1110.3	1109.5	1108.9	1109.5	1110.3	1110.8	1111.1	1110.8	1110.3
12.5°	1104.1	1103.8	1103.3	1102.5	1101.7	1102.5	1103.3	1103.8	1104.1	1103.8	1103.3
13°	1096.9	1096.6	1096.1	1095.5	1094.7	1095.5	1096.1	1096.6	1096.9	1096.6	1096.1
13.5°	1089.4	1089.1	1088.7	1088.1	1087.5	1088.1	1088.7	1089.1	1089.4	1089.1	1088.7
14°	1081.7	1081.5	1081.2	1080.6	1079.9	1080.6	1081.2	1081.5	1081.7	1081.5	1081.2
14.5°	1073.7	1073.6	1073.4	1072.8	1072.1	1072.8	1073.4	1073.6	1073.7	1073.6	1073.4
15°	1065.7	1065.7	1065.4	1065.1	1064.4	1065.1	1065.4	1065.7	1065.7	1065.7	1065.4
15.5°	1057.4	1057.4	1057.7	1057.4	1057.1	1057.4	1057.7	1057.4	1057.4	1057.4	1057.7
16°	1049.4	1049.6	1050.1	1049.9	1049.6	1049.9	1050.1	1049.6	1049.4	1049.6	1050.1
16.5°	1041.4	1041.7	1042.4	1042.4	1042.2	1042.4	1042.4	1041.7	1041.4	1041.7	1042.4
17°	1033.9	1034.2	1034.9	1034.7	1034.9	1034.7	1034.9	1034.2	1033.9	1034.2	1034.9
17.5°	1026.6	1026.9	1027.4	1027.2	1027.0	1027.2	1027.4	1026.9	1026.6	1026.9	1027.4
18°	1019.4	1019.5	1019.9	1019.5	1019.2	1019.5	1019.9	1019.5	1019.4	1019.5	1019.9
18.5°	1011.7	1011.7	1011.7	1011.4	1010.9	1011.4	1011.7	1011.7	1011.7	1011.7	1011.7
19°	1003.9	1003.4	1003.1	1002.6	1002.1	1002.6	1003.1	1003.4	1003.9	1003.4	1003.1
19.5°	995.2	994.6	993.6	993.3	992.8	993.3	993.6	994.6	995.2	994.6	993.6
20°	985.8	985.0	983.3	983.4	982.3	983.4	983.3	985.0	985.8	985.0	983.3
20.5°	975.4	974.1	972.1	972.7	971.4	972.7	972.1	974.1	975.4	974.1	972.1
21°	964.6	962.6	960.2	961.0	959.4	961.0	960.2	962.6	964.6	962.6	960.2



TEST NUMBER: P775918

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-1500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	924.8	922.8	921.2	921.1	920.3	921.1	921.2	922.8	924.8	922.8	921.2
23°	909.6	908.0	907.7	906.5	906.2	906.5	907.7	908.0	909.6	908.0	907.7
23.5°	894.1	892.6	893.4	891.5	892.3	891.5	893.4	892.6	894.1	892.6	893.4
24°	877.9	876.8	878.7	876.2	877.6	876.2	878.7	876.8	877.9	876.8	878.7
24.5°	861.3	860.8	863.2	860.7	862.6	860.7	863.2	860.8	861.3	860.8	863.2
25°	843.9	844.2	847.1	845.2	846.6	845.2	847.1	844.2	843.9	844.2	847.1
25.5°	825.8	827.9	830.5	829.7	830.0	829.7	830.5	827.9	825.8	827.9	830.5
26°	807.3	811.0	813.4	813.5	812.2	813.5	813.4	811.0	807.3	811.0	813.4
26.5°	788.3	793.7	795.6	796.7	793.9	796.7	795.6	793.7	788.3	793.7	795.6
27°	769.7	775.8	777.7	779.5	775.2	779.5	777.7	775.8	769.7	775.8	777.7
27.5°	751.5	757.3	759.5	761.7	756.1	761.7	759.5	757.3	751.5	757.3	759.5
28°	733.3	738.7	741.0	743.2	737.1	743.2	741.0	738.7	733.3	738.7	741.0
28.5°	715.5	719.9	722.4	724.3	718.7	724.3	722.4	719.9	715.5	719.9	722.4
29°	698.0	700.8	703.9	705.2	701.3	705.2	703.9	700.8	698.0	700.8	703.9
29.5°	680.7	682.1	685.5	686.0	684.2	686.0	685.5	682.1	680.7	682.1	685.5
30°	663.4	663.0	666.6	666.8	667.0	666.8	666.6	663.0	663.4	663.0	666.6
30.5°	645.5	644.4	647.9	648.3	650.7	648.3	647.9	644.4	645.5	644.4	647.9
31°	627.8	625.4	629.1	629.7	633.4	629.7	629.1	625.4	627.8	625.4	629.1
31.5°	609.6	607.2	610.2	611.3	616.0	611.3	610.2	607.2	609.6	607.2	610.2
32°	591.0	588.8	591.5	593.3	598.1	593.3	591.5	588.8	591.0	588.8	591.5
32.5°	573.1	571.2	573.1	575.4	580.2	575.4	573.1	571.2	573.1	571.2	573.1
33°	555.1	553.6	554.3	557.5	561.9	557.5	554.3	553.6	555.1	553.6	554.3
33.5°	538.9	536.1	535.6	539.6	543.6	539.6	535.6	536.1	538.9	536.1	535.6
34°	521.5	518.5	517.0	522.0	526.1	522.0	517.0	518.5	521.5	518.5	517.0
34.5°	504.3	501.1	499.0	504.3	508.9	504.3	499.0	501.1	504.3	501.1	499.0
35°	486.8	484.1	481.9	487.2	492.1	487.2	481.9	484.1	486.8	484.1	481.9
35.5°	469.9	467.3	464.9	470.2	475.6	470.2	464.9	467.3	469.9	467.3	464.9
36°	453.3	450.6	448.5	453.9	459.5	453.9	448.5	450.6	453.3	450.6	448.5
36.5°	436.8	434.4	432.5	437.8	443.0	437.8	432.5	434.4	436.8	434.4	432.5
37°	420.2	418.4	416.8	422.1	426.7	422.1	416.8	418.4	420.2	418.4	416.8
37.5°	404.0	402.9	401.8	407.1	410.4	407.1	401.8	402.9	404.0	402.9	401.8
38°	388.1	387.9	387.4	392.4	394.3	392.4	387.4	387.9	388.1	387.9	387.4
38.5°	373.0	373.4	373.7	378.0	378.8	378.0	373.7	373.4	373.0	373.4	373.7
39°	358.5	359.3	359.9	364.1	363.9	364.1	359.9	359.3	358.5	359.3	359.9
39.5°	344.3	345.7	346.8	350.3	349.9	350.3	346.8	345.7	344.3	345.7	346.8
40°	330.7	332.3	334.2	337.1	336.4	337.1	334.2	332.3	330.7	332.3	334.2
40.5°	317.9	319.5	322.1	324.1	324.0	324.1	322.1	319.5	317.9	319.5	322.1
41°	305.6	307.2	310.5	312.0	312.5	312.0	310.5	307.2	305.6	307.2	310.5
41.5°	293.9	295.7	299.5	300.3	301.8	300.3	299.5	295.7	293.9	295.7	299.5
42°	283.1	284.8	289.0	289.4	291.4	289.4	289.0	284.8	283.1	284.8	289.0
42.5°	272.8	274.6	279.1	279.2	281.3	279.2	279.1	274.6	272.8	274.6	279.1
43°	263.1	265.0	269.3	269.6	271.5	269.6	269.3	265.0	263.1	265.0	269.3
43.5°	254.1	256.0	260.2	260.4	262.1	260.4	260.2	256.0	254.1	256.0	260.2



TEST NUMBER: P775918

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-1500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	231.1	232.7	235.3	236.1	236.9	236.1	235.3	232.7	231.1	232.7	235.3
45.5°	224.4	225.7	228.1	228.9	229.5	228.9	228.1	225.7	224.4	225.7	228.1
46°	218.0	219.1	221.2	222.3	222.6	222.3	221.2	219.1	218.0	219.1	221.2
46.5°	212.1	213.0	214.6	215.9	216.2	215.9	214.6	213.0	212.1	213.0	214.6
47°	206.5	207.1	208.7	210.0	210.5	210.0	208.7	207.1	206.5	207.1	208.7
47.5°	201.2	201.7	203.1	204.6	205.2	204.6	203.1	201.7	201.2	201.7	203.1
48°	196.3	196.9	198.3	199.6	200.3	199.6	198.3	196.9	196.3	196.9	198.3
48.5°	192.3	192.6	193.7	195.0	195.5	195.0	193.7	192.6	192.3	192.6	193.7
49°	188.4	188.6	189.6	190.5	191.0	190.5	189.6	188.6	188.4	188.6	189.6
49.5°	184.8	184.9	185.6	186.4	186.5	186.4	185.6	184.9	184.8	184.9	185.6
50°	180.9	181.1	181.6	182.2	182.4	182.2	181.6	181.1	180.9	181.1	181.6
50.5°	177.1	177.2	177.6	178.2	178.2	178.2	177.6	177.2	177.1	177.2	177.6
51°	172.8	173.1	173.6	174.2	174.2	174.2	173.6	173.1	172.8	173.1	173.6
51.5°	168.6	168.8	169.4	170.2	170.4	170.2	169.4	168.8	168.6	168.8	169.4
52°	164.3	164.6	165.3	166.1	166.2	166.1	165.3	164.6	164.3	164.6	165.3
52.5°	160.0	160.3	161.1	161.7	162.1	161.7	161.1	160.3	160.0	160.3	161.1
53°	156.0	156.3	156.9	157.6	157.9	157.6	156.9	156.3	156.0	156.3	156.9
53.5°	151.8	152.2	152.8	153.6	153.9	153.6	152.8	152.2	151.8	152.2	152.8
54°	148.0	148.2	148.8	149.4	149.8	149.4	148.8	148.2	148.0	148.2	148.8
54.5°	144.2	144.3	145.0	145.6	145.9	145.6	145.0	144.3	144.2	144.3	145.0
55°	140.3	140.6	141.3	141.8	141.9	141.8	141.3	140.6	140.3	140.6	141.3
55.5°	136.7	137.0	137.6	138.1	138.2	138.1	137.6	137.0	136.7	137.0	137.6
56°	133.1	133.5	133.9	134.4	134.6	134.4	133.9	133.5	133.1	133.5	133.9
56.5°	129.6	129.9	130.4	130.9	131.1	130.9	130.4	129.9	129.6	129.9	130.4
57°	126.1	126.4	126.9	127.4	127.5	127.4	126.9	126.4	126.1	126.4	126.9
57.5°	122.6	123.1	123.5	123.9	124.2	123.9	123.5	123.1	122.6	123.1	123.5
58°	119.6	119.7	120.2	120.7	120.8	120.7	120.2	119.7	119.6	119.7	120.2
58.5°	116.4	116.5	117.0	117.3	117.5	117.3	117.0	116.5	116.4	116.5	117.0
59°	113.2	113.3	113.6	114.0	114.3	114.0	113.6	113.3	113.2	113.3	113.6
59.5°	110.0	110.1	110.4	110.9	111.1	110.9	110.4	110.1	110.0	110.1	110.4
60°	106.9	107.1	107.4	107.7	107.9	107.7	107.4	107.1	106.9	107.1	107.4
60.5°	103.9	104.0	104.4	104.7	104.8	104.7	104.4	104.0	103.9	104.0	104.4
61°	101.0	101.2	101.5	101.8	102.0	101.8	101.5	101.2	101.0	101.2	101.5
61.5°	98.1	98.3	98.6	98.9	99.1	98.9	98.6	98.3	98.1	98.3	98.6
62°	95.4	95.4	95.7	96.1	96.1	96.1	95.7	95.4	95.4	95.4	95.7
62.5°	92.5	92.7	92.9	93.2	93.3	93.2	92.9	92.7	92.5	92.7	92.9
63°	89.8	90.0	90.1	90.5	90.5	90.5	90.1	90.0	89.8	90.0	90.1
63.5°	87.1	87.3	87.4	87.7	87.9	87.7	87.4	87.3	87.1	87.3	87.4
64°	84.5	84.7	84.9	85.0	85.2	85.0	84.9	84.7	84.5	84.7	84.9
64.5°	82.0	82.2	82.3	82.5	82.6	82.5	82.3	82.2	82.0	82.2	82.3
65°	79.4	79.6	79.8	79.9	80.1	79.9	79.8	79.6	79.4	79.6	79.8
65.5°	77.0	77.0	77.2	77.5	77.5	77.5	77.2	77.0	77.0	77.0	77.2
66°	74.5	74.6	74.8	75.0	75.1	75.0	74.8	74.6	74.5	74.6	74.8





TEST NUMBER: P775918

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMW-1500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	67.4	67.6	67.8	67.9	67.9	67.9	67.8	67.6	67.4	67.6	67.8
68°	65.2	65.4	65.5	65.7	65.7	65.7	65.5	65.4	65.2	65.4	65.5
68.5°	63.0	63.1	63.3	63.3	63.5	63.3	63.3	63.1	63.0	63.1	63.3
69°	60.9	60.9	60.9	61.2	61.2	61.2	60.9	60.9	60.9	60.9	60.9
69.5°	58.7	58.8	58.8	59.0	59.1	59.0	58.8	58.8	58.7	58.8	58.8
70°	56.7	56.9	56.7	56.9	57.1	56.9	56.7	56.9	56.7	56.9	56.7
70.5°	54.7	54.8	54.8	54.8	55.0	54.8	54.8	54.8	54.7	54.8	54.8
71°	52.7	52.7	52.7	52.7	52.9	52.7	52.7	52.7	52.7	52.7	52.7
71.5°	50.7	50.7	50.8	50.8	50.8	50.8	50.8	50.7	50.7	50.7	50.8
72°	48.7	48.7	48.7	48.9	48.9	48.9	48.7	48.7	48.7	48.7	48.7
72.5°	46.8	46.8	46.8	47.0	47.0	47.0	46.8	46.8	46.8	46.8	46.8
73°	44.9	44.9	44.9	45.1	45.1	45.1	44.9	44.9	44.9	44.9	44.9
73.5°	43.0	43.0	43.2	43.2	43.2	43.2	43.2	43.0	43.0	43.0	43.2
74°	41.2	41.2	41.2	41.4	41.4	41.4	41.2	41.2	41.2	41.2	41.2
74.5°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
75°	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
75.5°	36.0	36.0	36.0	36.0	36.1	36.0	36.0	36.0	36.0	36.0	36.0
76°	34.4	34.2	34.2	34.4	34.4	34.4	34.2	34.2	34.4	34.2	34.2
76.5°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
77°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
77.5°	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
78°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
78.5°	26.4	26.4	26.2	26.2	26.4	26.2	26.2	26.4	26.4	26.4	26.2
79°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
79.5°	23.3	23.3	23.2	23.3	23.3	23.3	23.2	23.3	23.3	23.3	23.2
80°	21.9	21.9	21.7	21.7	21.7	21.7	21.7	21.9	21.9	21.9	21.7
80.5°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
81°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
81.5°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
82°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
82.5°	15.0	15.0	15.0	15.0	14.9	15.0	15.0	15.0	15.0	15.0	15.0
83°	13.7	13.7	13.7	13.6	13.6	13.6	13.7	13.7	13.7	13.7	13.7
83.5°	12.5	12.5	12.5	12.3	12.3	12.3	12.5	12.5	12.5	12.5	12.5
84°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
84.5°	10.1	9.9	9.9	9.9	9.9	9.9	9.9	9.9	10.1	9.9	9.9
85°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
85.5°	7.7	7.5	7.7	7.5	7.7	7.5	7.7	7.5	7.7	7.5	7.7
86°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
86.5°	5.4	5.3	5.3	5.3	5.4	5.3	5.3	5.3	5.4	5.3	5.3
87°	4.3	4.3	4.3	4.2	4.3	4.2	4.3	4.3	4.3	4.3	4.3
87.5°	3.2	3.2	3.2	3.2	3.4	3.2	3.2	3.2	3.2	3.2	3.2
88°	2.1	2.2	2.2	2.4	2.4	2.4	2.2	2.2	2.1	2.2	2.2
88.5°	1.3	1.3	1.4	1.6	1.9	1.6	1.4	1.3	1.3	1.3	1.4



TEST NUMBER: P775918  
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.2	0.3	0.5	0.3	0.2	0.0	0.0	0.0	0.2



TEST NUMBER: P775918

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1193.4	1193.4	1193.4	1193.4	1193.4	1193.4
0.5°	1192.9	1192.5	1192.9	1193.1	1193.4	1193.6
1°	1192.6	1192.0	1192.6	1192.8	1192.9	1193.1
1.5°	1191.8	1191.3	1191.8	1192.1	1192.1	1192.5
2°	1190.9	1190.2	1190.9	1191.0	1191.3	1191.5
2.5°	1189.6	1188.8	1189.6	1189.7	1190.1	1190.4
3°	1187.8	1187.0	1187.8	1188.1	1188.5	1188.8
3.5°	1185.9	1185.4	1185.9	1186.2	1186.7	1187.0
4°	1183.8	1183.0	1183.8	1184.2	1184.8	1185.0
4.5°	1181.4	1180.5	1181.4	1181.8	1182.4	1182.7
5°	1179.0	1177.9	1179.0	1179.4	1180.0	1180.5
5.5°	1175.8	1174.9	1175.8	1176.2	1177.0	1178.1
6°	1172.5	1171.2	1172.5	1173.0	1173.8	1174.4
6.5°	1168.8	1167.5	1168.8	1169.3	1170.2	1170.7
7°	1165.0	1163.9	1165.0	1165.8	1166.3	1166.9
7.5°	1161.0	1159.9	1161.0	1161.3	1161.9	1162.6
8°	1156.3	1155.7	1156.3	1156.8	1157.5	1157.9
8.5°	1151.4	1150.7	1151.4	1151.9	1152.5	1153.1
9°	1146.3	1145.6	1146.3	1146.8	1147.6	1148.0
9.5°	1140.8	1140.2	1140.8	1141.3	1142.1	1142.4
10°	1135.1	1134.3	1135.1	1135.7	1136.4	1136.8
10.5°	1129.0	1128.4	1129.0	1129.5	1130.3	1130.6
11°	1122.8	1122.0	1122.8	1123.4	1124.1	1124.4
11.5°	1116.2	1115.6	1116.2	1116.9	1117.5	1117.8
12°	1109.5	1108.9	1109.5	1110.3	1110.8	1111.1
12.5°	1102.5	1101.7	1102.5	1103.3	1103.8	1104.1
13°	1095.5	1094.7	1095.5	1096.1	1096.6	1096.9
13.5°	1088.1	1087.5	1088.1	1088.7	1089.1	1089.4
14°	1080.6	1079.9	1080.6	1081.2	1081.5	1081.7
14.5°	1072.8	1072.1	1072.8	1073.4	1073.6	1073.7
15°	1065.1	1064.4	1065.1	1065.4	1065.7	1065.7
15.5°	1057.4	1057.1	1057.4	1057.7	1057.4	1057.4
16°	1049.9	1049.6	1049.9	1050.1	1049.6	1049.4
16.5°	1042.4	1042.2	1042.4	1042.4	1041.7	1041.4
17°	1034.7	1034.9	1034.7	1034.9	1034.2	1033.9
17.5°	1027.2	1027.0	1027.2	1027.4	1026.9	1026.6
18°	1019.5	1019.2	1019.5	1019.9	1019.5	1019.4
18.5°	1011.4	1010.9	1011.4	1011.7	1011.7	1011.7
19°	1002.6	1002.1	1002.6	1003.1	1003.4	1003.9
19.5°	993.3	992.8	993.3	993.6	994.6	995.2
20°	983.4	982.3	983.4	983.3	985.0	985.8
20.5°	972.7	971.4	972.7	972.1	974.1	975.4
21°	961.0	959.4	961.0	960.2	962.6	964.6



TEST NUMBER: P775918

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	921.1	920.3	921.1	921.2	922.8	924.8
23°	906.5	906.2	906.5	907.7	908.0	909.6
23.5°	891.5	892.3	891.5	893.4	892.6	894.1
24°	876.2	877.6	876.2	878.7	876.8	877.9
24.5°	860.7	862.6	860.7	863.2	860.8	861.3
25°	845.2	846.6	845.2	847.1	844.2	843.9
25.5°	829.7	830.0	829.7	830.5	827.9	825.8
26°	813.5	812.2	813.5	813.4	811.0	807.3
26.5°	796.7	793.9	796.7	795.6	793.7	788.3
27°	779.5	775.2	779.5	777.7	775.8	769.7
27.5°	761.7	756.1	761.7	759.5	757.3	751.5
28°	743.2	737.1	743.2	741.0	738.7	733.3
28.5°	724.3	718.7	724.3	722.4	719.9	715.5
29°	705.2	701.3	705.2	703.9	700.8	698.0
29.5°	686.0	684.2	686.0	685.5	682.1	680.7
30°	666.8	667.0	666.8	666.6	663.0	663.4
30.5°	648.3	650.7	648.3	647.9	644.4	645.5
31°	629.7	633.4	629.7	629.1	625.4	627.8
31.5°	611.3	616.0	611.3	610.2	607.2	609.6
32°	593.3	598.1	593.3	591.5	588.8	591.0
32.5°	575.4	580.2	575.4	573.1	571.2	573.1
33°	557.5	561.9	557.5	554.3	553.6	555.1
33.5°	539.6	543.6	539.6	535.6	536.1	538.9
34°	522.0	526.1	522.0	517.0	518.5	521.5
34.5°	504.3	508.9	504.3	499.0	501.1	504.3
35°	487.2	492.1	487.2	481.9	484.1	486.8
35.5°	470.2	475.6	470.2	464.9	467.3	469.9
36°	453.9	459.5	453.9	448.5	450.6	453.3
36.5°	437.8	443.0	437.8	432.5	434.4	436.8
37°	422.1	426.7	422.1	416.8	418.4	420.2
37.5°	407.1	410.4	407.1	401.8	402.9	404.0
38°	392.4	394.3	392.4	387.4	387.9	388.1
38.5°	378.0	378.8	378.0	373.7	373.4	373.0
39°	364.1	363.9	364.1	359.9	359.3	358.5
39.5°	350.3	349.9	350.3	346.8	345.7	344.3
40°	337.1	336.4	337.1	334.2	332.3	330.7
40.5°	324.1	324.0	324.1	322.1	319.5	317.9
41°	312.0	312.5	312.0	310.5	307.2	305.6
41.5°	300.3	301.8	300.3	299.5	295.7	293.9
42°	289.4	291.4	289.4	289.0	284.8	283.1
42.5°	279.2	281.3	279.2	279.1	274.6	272.8
43°	269.6	271.5	269.6	269.3	265.0	263.1
43.5°	260.4	262.1	260.4	260.2	256.0	254.1



TEST NUMBER: P775918

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	236.1	236.9	236.1	235.3	232.7	231.1
45.5°	228.9	229.5	228.9	228.1	225.7	224.4
46°	222.3	222.6	222.3	221.2	219.1	218.0
46.5°	215.9	216.2	215.9	214.6	213.0	212.1
47°	210.0	210.5	210.0	208.7	207.1	206.5
47.5°	204.6	205.2	204.6	203.1	201.7	201.2
48°	199.6	200.3	199.6	198.3	196.9	196.3
48.5°	195.0	195.5	195.0	193.7	192.6	192.3
49°	190.5	191.0	190.5	189.6	188.6	188.4
49.5°	186.4	186.5	186.4	185.6	184.9	184.8
50°	182.2	182.4	182.2	181.6	181.1	180.9
50.5°	178.2	178.2	178.2	177.6	177.2	177.1
51°	174.2	174.2	174.2	173.6	173.1	172.8
51.5°	170.2	170.4	170.2	169.4	168.8	168.6
52°	166.1	166.2	166.1	165.3	164.6	164.3
52.5°	161.7	162.1	161.7	161.1	160.3	160.0
53°	157.6	157.9	157.6	156.9	156.3	156.0
53.5°	153.6	153.9	153.6	152.8	152.2	151.8
54°	149.4	149.8	149.4	148.8	148.2	148.0
54.5°	145.6	145.9	145.6	145.0	144.3	144.2
55°	141.8	141.9	141.8	141.3	140.6	140.3
55.5°	138.1	138.2	138.1	137.6	137.0	136.7
56°	134.4	134.6	134.4	133.9	133.5	133.1
56.5°	130.9	131.1	130.9	130.4	129.9	129.6
57°	127.4	127.5	127.4	126.9	126.4	126.1
57.5°	123.9	124.2	123.9	123.5	123.1	122.6
58°	120.7	120.8	120.7	120.2	119.7	119.6
58.5°	117.3	117.5	117.3	117.0	116.5	116.4
59°	114.0	114.3	114.0	113.6	113.3	113.2
59.5°	110.9	111.1	110.9	110.4	110.1	110.0
60°	107.7	107.9	107.7	107.4	107.1	106.9
60.5°	104.7	104.8	104.7	104.4	104.0	103.9
61°	101.8	102.0	101.8	101.5	101.2	101.0
61.5°	98.9	99.1	98.9	98.6	98.3	98.1
62°	96.1	96.1	96.1	95.7	95.4	95.4
62.5°	93.2	93.3	93.2	92.9	92.7	92.5
63°	90.5	90.5	90.5	90.1	90.0	89.8
63.5°	87.7	87.9	87.7	87.4	87.3	87.1
64°	85.0	85.2	85.0	84.9	84.7	84.5
64.5°	82.5	82.6	82.5	82.3	82.2	82.0
65°	79.9	80.1	79.9	79.8	79.6	79.4
65.5°	77.5	77.5	77.5	77.2	77.0	77.0
66°	75.0	75.1	75.0	74.8	74.6	74.5



TEST NUMBER: P775918

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	67.9	67.9	67.9	67.8	67.6	67.4
68°	65.7	65.7	65.7	65.5	65.4	65.2
68.5°	63.3	63.5	63.3	63.3	63.1	63.0
69°	61.2	61.2	61.2	60.9	60.9	60.9
69.5°	59.0	59.1	59.0	58.8	58.8	58.7
70°	56.9	57.1	56.9	56.7	56.9	56.7
70.5°	54.8	55.0	54.8	54.8	54.8	54.7
71°	52.7	52.9	52.7	52.7	52.7	52.7
71.5°	50.8	50.8	50.8	50.8	50.7	50.7
72°	48.9	48.9	48.9	48.7	48.7	48.7
72.5°	47.0	47.0	47.0	46.8	46.8	46.8
73°	45.1	45.1	45.1	44.9	44.9	44.9
73.5°	43.2	43.2	43.2	43.2	43.0	43.0
74°	41.4	41.4	41.4	41.2	41.2	41.2
74.5°	39.5	39.5	39.5	39.5	39.5	39.5
75°	37.7	37.7	37.7	37.7	37.7	37.7
75.5°	36.0	36.1	36.0	36.0	36.0	36.0
76°	34.4	34.4	34.4	34.2	34.2	34.4
76.5°	32.6	32.6	32.6	32.6	32.6	32.6
77°	31.0	31.0	31.0	31.0	31.0	31.0
77.5°	29.4	29.4	29.4	29.4	29.4	29.4
78°	27.8	27.8	27.8	27.8	27.8	27.8
78.5°	26.2	26.4	26.2	26.2	26.4	26.4
79°	24.8	24.8	24.8	24.8	24.8	24.8
79.5°	23.3	23.3	23.3	23.2	23.3	23.3
80°	21.7	21.7	21.7	21.7	21.9	21.9
80.5°	20.5	20.5	20.5	20.5	20.5	20.5
81°	19.0	19.0	19.0	19.0	19.0	19.0
81.5°	17.6	17.6	17.6	17.6	17.6	17.6
82°	16.3	16.3	16.3	16.3	16.3	16.3
82.5°	15.0	14.9	15.0	15.0	15.0	15.0
83°	13.6	13.6	13.6	13.7	13.7	13.7
83.5°	12.3	12.3	12.3	12.5	12.5	12.5
84°	11.2	11.2	11.2	11.2	11.2	11.2
84.5°	9.9	9.9	9.9	9.9	9.9	10.1
85°	8.8	8.8	8.8	8.8	8.8	8.8
85.5°	7.5	7.7	7.5	7.7	7.5	7.7
86°	6.4	6.4	6.4	6.4	6.4	6.4
86.5°	5.3	5.4	5.3	5.3	5.3	5.4
87°	4.2	4.3	4.2	4.3	4.3	4.3
87.5°	3.2	3.4	3.2	3.2	3.2	3.2
88°	2.4	2.4	2.4	2.2	2.2	2.1
88.5°	1.6	1.9	1.6	1.4	1.3	1.3



TEST NUMBER: P775918

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-1500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.3	0.5	0.3	0.2	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°	951.9	950.3	947.6	948.4	946.8	948.4	947.6	950.3	951.9	950.3	947.6
22°	938.7	937.1	934.7	935.0	933.4	935.0	934.7	937.1	938.7	937.1	934.7



44°	245.8	247.7	251.4	251.7	253.3	251.7	251.4	247.7	245.8	247.7	251.4
44.5°	238.1	240.1	243.3	243.7	244.9	243.7	243.3	240.1	238.1	240.1	243.3



66.5°	72.1	72.2	72.4	72.6	72.7	72.6	72.4	72.2	72.1	72.2	72.4
67°	69.8	69.8	70.0	70.2	70.3	70.2	70.0	69.8	69.8	69.8	70.0



89°	0.5	0.6	1.0	1.1	1.3	1.1	1.0	0.6	0.5	0.6	1.0
89.5°	0.0	0.2	0.5	0.6	0.8	0.6	0.5	0.2	0.0	0.2	0.5



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

Scaled Data Report





21.5°	948.4	946.8	948.4	947.6	950.3	951.9
22°	935.0	933.4	935.0	934.7	937.1	938.7



44°	251.7	253.3	251.7	251.4	247.7	245.8
44.5°	243.7	244.9	243.7	243.3	240.1	238.1

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

Scaled Data Report



66.5°	72.6	72.7	72.6	72.4	72.2	72.1
67°	70.2	70.3	70.2	70.0	69.8	69.8

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

Scaled Data Report



89°	1.1	1.3	1.1	1.0	0.6	0.5
89.5°	0.6	0.8	0.6	0.5	0.2	0.0

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

Scaled Data Report



(END OF REPORT)