

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: P775965

Luminaire Tested: HCDJBL51525CSD-HCD42TRMB-2500lm-2700K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B051)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD42TRMB-2500lm-2700K  
Description: 4 INCH ROUND NARROW MATTE BLACK TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

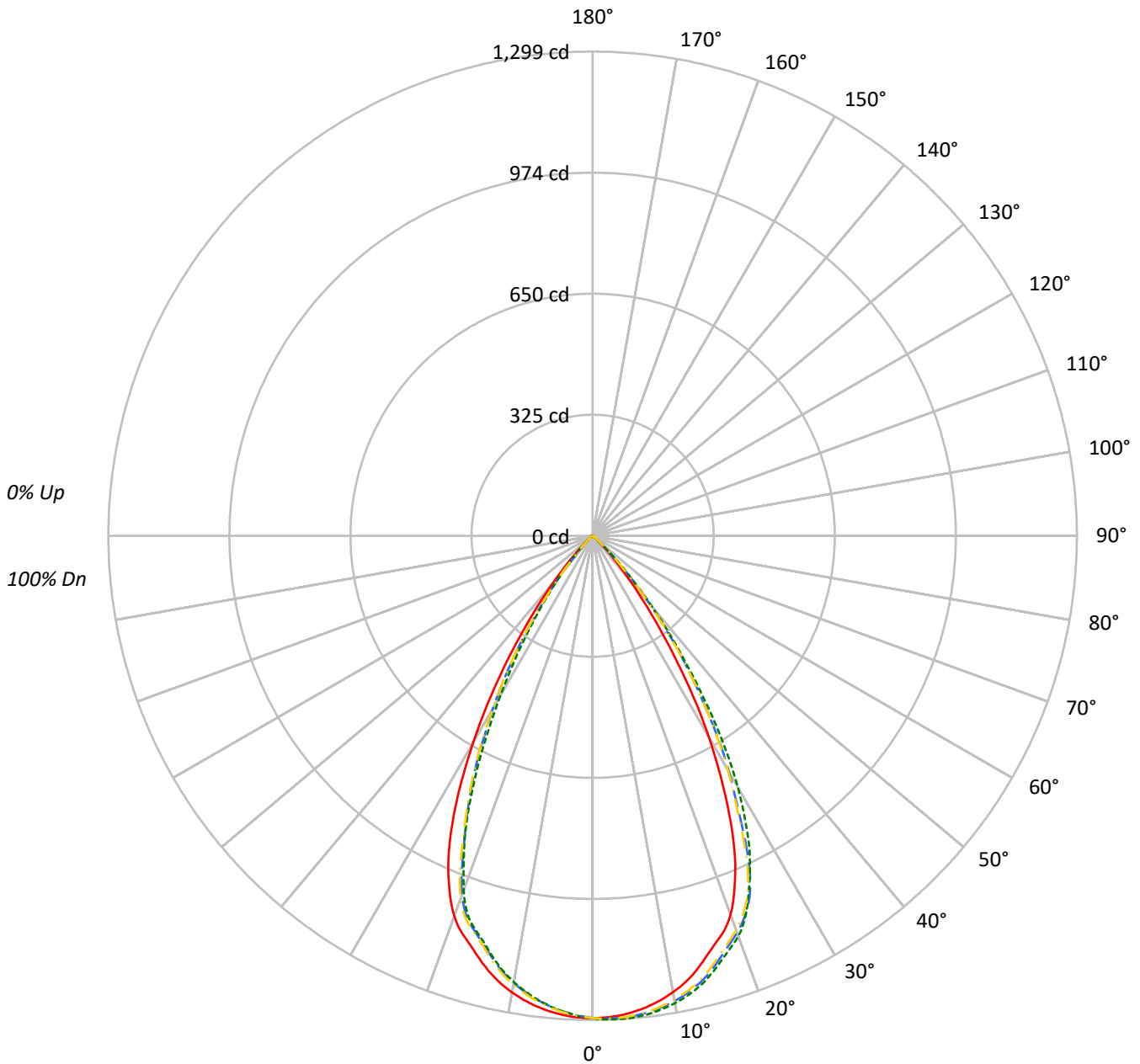
Lumens per Lamp: N/A  
Luminaire Lumens: 1142.6 lumens  
Efficiency: N/A  
Efficacy: 45.7 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.94 / 0.88  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94								
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88								
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82								
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76								
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71								
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67								
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	63								
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59								
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55								
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	56	53	52								

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

	0°	90°	180°	270°
0°	162837	162837	162837	162837
5°	161893	163788	161956	160276
10°	158883	162717	158972	155381
15°	152621	158953	153025	147044
20°	144855	153091	145404	135333
25°	123613	138568	126057	107241
30°	90635	113291	93091	71715
35°	53542	75742	57336	40867
40°	24577	40398	27403	18564
45°	7582	13740	8650	5428
50°	2408	2741	2467	2075
55°	1492	1689	1492	1273
60°	906	1032	982	856
65°	655	655	655	566
70°	442	442	442	368
75°	243	340	243	243
80°	145	145	145	145
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 14345 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.1	10.6
10°-20°	329.4	28.8
20°-30°	399.8	35.0
30°-40°	235.5	20.6
40°-50°	47.4	4.1
50°-60°	6.4	0.6
60°-70°	2.2	0.2
70°-80°	0.6	0.1
80°-90°	0.1	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°	850.3	74.4
0°-40°	1085.9	95.0
0°-60°	1139.7	99.7
0°-90°	1142.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1142.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1294	1294	1294	1294	1294	
5°	1282	1296	1282	1269	1282	121
15°	1171	1220	1174	1129	1171	329
25°	890	998	908	772	890	399
35°	348	493	373	266	348	222
45°	43	77	49	30	43	42
55°	7	8	7	6	7	6
65°	2	2	2	2	2	2
75°	0	1	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9
0.5°	1294.1	1294.8	1294.1	1293.6	1296.3	1295.3	1294.6	1294.3	1294.1	1293.9	1291.9
1°	1293.6	1294.8	1294.8	1294.6	1297.3	1296.3	1295.3	1294.6	1293.9	1292.9	1290.2
1.5°	1293.1	1294.8	1295.6	1295.6	1298.0	1297.0	1295.6	1294.3	1293.1	1291.7	1288.5
2°	1292.2	1294.3	1295.8	1296.0	1298.5	1297.5	1295.8	1294.1	1292.4	1290.5	1286.4
2.5°	1291.0	1293.9	1295.8	1296.3	1298.9	1297.7	1295.6	1293.6	1291.2	1288.8	1283.9
3°	1289.5	1292.9	1295.6	1296.5	1298.9	1297.7	1295.3	1292.7	1290.0	1286.8	1281.5
3.5°	1288.1	1291.9	1295.3	1296.3	1298.7	1297.3	1294.6	1291.7	1288.3	1284.7	1278.9
4°	1286.1	1290.5	1294.6	1295.8	1298.2	1296.8	1293.9	1290.2	1286.4	1282.2	1275.7
4.5°	1283.9	1289.0	1293.9	1295.3	1297.5	1296.0	1292.7	1288.8	1284.4	1279.8	1272.3
5°	1281.5	1287.1	1292.7	1294.3	1296.5	1294.8	1291.4	1287.1	1282.0	1276.9	1268.7
5.5°	1278.9	1285.1	1291.2	1293.4	1295.3	1293.6	1289.7	1285.1	1279.3	1273.8	1265.1
6°	1276.0	1282.7	1289.5	1291.9	1293.9	1291.9	1287.8	1282.7	1276.4	1270.4	1260.9
6.5°	1272.8	1280.3	1287.6	1290.2	1292.4	1290.2	1285.6	1280.1	1273.3	1266.5	1256.6
7°	1269.7	1277.4	1285.4	1288.3	1290.2	1288.1	1283.5	1277.2	1270.1	1262.6	1251.7
7.5°	1265.8	1274.3	1283.0	1286.4	1288.1	1285.6	1281.0	1274.3	1266.5	1258.3	1246.9
8°	1261.9	1270.9	1280.6	1283.9	1285.6	1283.2	1277.9	1270.9	1262.4	1253.9	1241.8
8.5°	1257.6	1267.2	1277.4	1281.3	1283.0	1280.3	1274.7	1267.2	1258.3	1249.3	1236.3
9°	1253.2	1263.4	1274.3	1278.4	1280.1	1277.4	1271.4	1263.4	1253.9	1244.2	1230.7
9.5°	1248.4	1259.0	1270.9	1275.2	1276.9	1274.0	1267.7	1259.3	1249.1	1239.2	1224.4
10°	1243.3	1254.7	1267.2	1271.8	1273.3	1270.6	1263.9	1254.9	1244.0	1233.4	1218.1
10.5°	1237.7	1249.8	1263.4	1268.2	1269.7	1266.5	1259.7	1250.1	1238.7	1227.5	1211.6
11°	1232.4	1245.0	1259.0	1264.1	1265.5	1262.4	1255.1	1245.0	1233.4	1221.3	1204.6
11.5°	1226.3	1239.6	1254.4	1260.0	1261.2	1257.8	1250.3	1239.6	1227.3	1214.7	1196.8
12°	1219.8	1233.8	1249.6	1255.6	1256.6	1253.2	1245.2	1234.1	1221.0	1207.7	1188.8
12.5°	1212.8	1227.5	1244.5	1250.5	1251.7	1247.9	1239.6	1228.0	1214.2	1200.2	1180.4
13°	1205.3	1221.3	1238.7	1245.5	1246.2	1242.6	1233.8	1221.7	1207.2	1192.5	1171.4
13.5°	1197.3	1214.0	1233.1	1239.9	1240.4	1236.5	1227.5	1214.7	1199.5	1184.2	1162.2
14°	1189.1	1206.7	1226.8	1233.8	1234.3	1230.2	1220.8	1207.5	1191.5	1175.3	1152.3
14.5°	1180.4	1198.7	1220.0	1227.3	1227.3	1222.9	1213.8	1199.7	1183.3	1166.1	1142.8
15°	1171.4	1190.3	1212.8	1220.3	1220.0	1215.9	1206.0	1191.7	1174.5	1156.9	1133.4
15.5°	1162.4	1181.6	1205.0	1212.8	1212.8	1208.2	1198.0	1183.3	1165.6	1147.7	1124.9
16°	1154.0	1173.1	1196.8	1205.0	1204.8	1200.2	1189.8	1174.5	1156.6	1138.7	1116.7
16.5°	1146.2	1164.6	1188.3	1196.8	1196.3	1192.0	1181.3	1166.1	1148.4	1130.5	1108.5
17°	1138.2	1156.9	1179.9	1188.8	1188.3	1183.7	1172.8	1157.8	1140.4	1122.8	1100.2
17.5°	1130.7	1149.1	1171.9	1180.6	1180.6	1176.0	1164.9	1150.1	1132.7	1114.8	1092.0
18°	1123.0	1141.6	1163.9	1173.1	1173.6	1168.5	1157.6	1142.4	1124.7	1106.5	1082.3
18.5°	1114.8	1133.6	1156.4	1165.8	1166.1	1161.2	1149.6	1134.1	1116.5	1097.8	1071.2
19°	1105.1	1125.9	1148.6	1158.3	1158.8	1153.7	1141.9	1126.6	1107.5	1087.7	1057.6
19.5°	1094.0	1117.2	1141.1	1150.6	1151.6	1146.2	1134.1	1117.9	1097.3	1075.6	1042.2
20°	1081.6	1107.3	1133.2	1143.3	1143.1	1138.0	1125.9	1108.7	1085.7	1061.8	1024.0
20.5°	1067.3	1096.1	1124.9	1134.9	1133.4	1128.8	1116.9	1098.5	1072.4	1046.5	1003.7
21°	1051.8	1084.3	1115.7	1125.4	1122.3	1118.2	1107.3	1087.2	1058.4	1029.3	980.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	998.4	1039.5	1083.3	1090.1	1081.8	1080.2	1072.7	1046.3	1007.8	967.6	904.4
23°	979.0	1021.8	1070.0	1076.0	1065.9	1064.7	1059.1	1030.1	990.1	944.4	879.5
23.5°	959.1	1003.2	1055.2	1060.3	1048.7	1048.0	1043.1	1011.9	971.0	920.2	854.8
24°	937.1	983.3	1038.8	1042.9	1031.7	1031.0	1025.7	992.8	951.2	895.7	831.6
24.5°	914.1	962.3	1020.1	1025.0	1015.1	1012.4	1005.6	972.9	930.1	871.3	808.1
25°	890.2	940.5	998.1	1005.6	997.9	994.0	984.3	951.6	907.8	848.1	784.6
25.5°	864.8	917.3	974.6	986.7	980.7	975.6	959.9	928.9	883.6	825.1	760.9
26°	838.9	892.1	947.8	966.4	962.5	956.7	933.2	904.7	858.7	802.6	736.7
26.5°	812.0	865.0	919.2	945.6	943.2	935.7	904.9	879.0	832.6	779.3	711.8
27°	785.1	836.9	889.4	923.1	922.6	913.9	877.6	851.9	806.7	755.8	686.1
27.5°	758.5	807.4	860.2	900.3	899.6	890.9	849.7	823.6	779.3	732.1	659.3
28°	732.1	777.1	831.6	874.9	876.1	867.2	823.1	793.4	751.7	707.7	632.9
28.5°	705.5	747.1	805.0	849.0	851.7	841.0	797.0	764.3	725.3	682.5	607.0
29°	678.2	717.6	779.6	821.4	828.2	814.2	773.5	735.8	696.8	656.1	582.3
29.5°	651.0	687.6	755.6	793.4	804.0	786.3	749.1	707.9	668.5	628.1	557.9
30°	623.7	659.8	731.4	764.6	779.6	758.7	725.1	681.1	640.6	600.7	533.7
30.5°	596.3	631.0	707.2	737.2	753.4	730.9	700.9	653.9	613.5	572.9	510.2
31°	567.8	603.4	681.3	710.1	727.0	704.3	676.0	627.3	585.5	545.8	486.5
31.5°	539.7	575.3	654.9	683.2	698.2	677.7	649.1	600.7	557.9	518.9	462.8
32°	511.4	548.2	627.3	657.3	669.2	651.8	622.0	573.8	530.5	493.2	438.8
32.5°	483.1	521.8	599.3	632.4	639.4	625.1	594.7	546.5	504.1	468.1	413.4
33°	454.8	495.7	570.7	606.8	609.7	599.5	567.3	518.4	476.8	443.4	388.4
33.5°	426.7	469.5	543.1	580.9	580.4	572.6	540.2	491.6	450.2	418.5	364.0
34°	399.3	444.8	517.0	554.5	551.1	546.5	514.5	465.7	424.0	393.0	340.3
34.5°	373.2	419.9	492.0	528.1	522.0	519.1	490.6	440.2	398.6	367.6	316.6
35°	348.5	395.5	466.9	500.7	493.0	492.5	465.7	415.8	373.2	342.2	294.1
35.5°	324.8	372.2	443.1	473.6	464.9	466.6	441.9	392.1	349.0	317.5	272.3
36°	301.8	350.5	419.4	446.8	437.6	440.5	417.5	369.8	325.5	293.1	251.2
36.5°	279.3	328.7	395.7	421.4	410.5	414.1	392.8	347.8	303.0	269.9	230.4
37°	258.0	306.6	371.3	396.2	384.6	388.2	367.6	326.2	280.0	247.3	209.6
37.5°	237.9	285.6	347.3	372.0	359.9	362.8	342.7	304.7	259.5	227.7	188.8
38°	218.3	264.3	322.9	348.0	335.9	338.1	318.3	283.9	239.4	208.4	168.2
38.5°	199.4	243.5	299.4	323.6	312.7	313.4	294.5	263.1	221.2	188.8	149.1
39°	182.0	223.1	277.4	300.6	289.9	289.9	271.3	242.5	203.1	169.4	131.4
39.5°	165.3	203.5	256.1	277.6	267.7	266.7	249.8	223.1	184.9	153.4	115.2
40°	149.6	184.9	236.5	254.9	245.9	244.7	230.6	204.0	166.8	137.0	100.9
40.5°	134.8	167.0	216.9	232.6	226.3	223.9	211.5	184.9	150.5	122.0	88.3
41°	120.8	150.1	198.5	210.6	206.7	203.3	192.4	165.8	135.8	107.9	77.4
41.5°	108.2	134.6	180.3	190.0	187.1	182.7	173.3	148.8	121.5	94.9	68.0
42°	96.3	120.0	162.4	170.4	167.5	161.9	154.2	133.1	108.4	83.0	60.3
42.5°	85.4	106.5	145.0	152.2	150.8	144.0	136.7	117.9	96.3	72.8	53.5
43°	76.7	93.7	127.5	135.0	134.1	127.1	119.8	103.8	85.2	63.7	47.0
43.5°	68.3	83.0	111.3	119.1	119.1	111.6	104.1	91.2	74.8	55.7	41.4



TEST NUMBER: P775965

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	42.6	54.7	72.4	80.6	77.2	72.6	65.6	58.6	48.6	36.8	27.6
45.5°	36.5	45.5	62.4	70.7	65.3	62.2	55.4	50.1	41.6	31.7	24.7
46°	31.0	38.5	52.8	60.7	55.2	52.8	47.0	42.1	35.1	27.1	22.0
46.5°	25.9	32.2	42.8	50.8	46.0	44.5	39.4	35.6	29.5	24.4	19.1
47°	21.8	26.6	36.1	41.1	38.0	37.0	32.9	29.5	26.4	21.5	16.5
47.5°	18.2	22.0	29.8	34.1	31.2	30.7	29.8	26.4	23.2	18.9	13.6
48°	15.7	18.2	24.7	28.1	27.8	27.3	26.6	23.2	20.1	16.2	12.6
48.5°	14.3	15.7	20.3	22.8	24.2	24.2	23.5	20.3	16.9	13.6	12.1
49°	13.6	14.3	17.2	18.6	20.8	20.8	20.3	17.2	13.8	12.8	11.6
49.5°	12.8	13.6	15.2	16.0	17.4	17.4	16.9	14.3	13.1	12.1	11.1
50°	12.3	12.8	14.0	14.5	14.0	14.3	13.8	13.3	12.6	11.6	10.4
50.5°	11.6	12.3	13.3	13.6	13.3	13.6	13.3	12.8	11.9	11.1	9.9
51°	11.1	11.6	12.8	13.1	12.8	12.8	12.6	12.1	11.4	10.4	9.2
51.5°	10.4	11.1	12.1	12.3	12.1	12.1	11.9	11.4	10.6	9.9	8.7
52°	9.9	10.4	11.6	11.9	11.6	11.6	11.4	10.6	9.9	9.2	8.2
52.5°	9.2	9.7	10.9	11.1	10.9	10.9	10.6	10.2	9.4	8.7	7.7
53°	8.7	9.2	10.2	10.4	10.2	10.2	9.9	9.4	8.7	8.2	7.3
53.5°	8.2	8.5	9.4	9.7	9.4	9.4	9.2	9.0	8.2	7.7	6.8
54°	7.7	8.0	9.0	9.2	9.0	9.0	8.7	8.2	7.7	7.3	6.5
54.5°	7.3	7.5	8.5	8.7	8.2	8.2	8.2	7.7	7.3	6.8	6.1
55°	6.8	7.3	7.7	8.0	7.7	7.7	7.7	7.3	6.8	6.5	5.8
55.5°	6.3	6.8	7.3	7.5	7.3	7.3	7.3	6.8	6.5	6.1	5.3
56°	6.1	6.3	6.8	7.0	6.8	6.8	6.8	6.5	6.1	5.8	5.1
56.5°	5.6	5.8	6.5	6.5	6.5	6.5	6.3	6.1	5.8	5.3	4.8
57°	5.3	5.6	6.1	6.3	6.1	6.1	6.1	5.8	5.3	5.1	4.6
57.5°	4.8	5.1	5.6	5.8	5.6	5.6	5.6	5.3	5.1	4.8	4.4
58°	4.6	4.8	5.3	5.6	5.3	5.3	5.3	5.1	4.8	4.6	4.1
58.5°	4.4	4.6	5.1	5.1	5.1	5.1	4.8	4.8	4.6	4.4	3.9
59°	4.1	4.4	4.6	4.8	4.6	4.6	4.6	4.6	4.4	4.1	3.6
59.5°	3.9	4.1	4.4	4.6	4.4	4.4	4.4	4.1	4.1	3.9	3.4
60°	3.6	3.9	4.1	4.4	4.1	4.1	4.1	3.9	3.9	3.6	3.1
60.5°	3.4	3.6	3.9	4.1	3.9	3.9	3.9	3.6	3.6	3.4	3.1
61°	3.4	3.4	3.6	3.9	3.6	3.6	3.6	3.6	3.4	3.1	2.9
61.5°	3.1	3.1	3.4	3.6	3.4	3.4	3.4	3.4	3.1	2.9	2.7
62°	2.9	2.9	3.4	3.4	3.4	3.4	3.1	3.1	2.9	2.9	2.7
62.5°	2.7	2.9	3.1	3.1	3.1	3.1	3.1	2.9	2.9	2.7	2.4
63°	2.7	2.7	2.9	2.9	2.9	2.9	2.9	2.9	2.7	2.7	2.4
63.5°	2.4	2.4	2.7	2.9	2.7	2.7	2.7	2.7	2.4	2.4	2.2
64°	2.4	2.4	2.7	2.7	2.7	2.7	2.7	2.4	2.4	2.2	2.2
64.5°	2.2	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.2	2.2	1.9
65°	2.2	2.2	2.4	2.4	2.2	2.2	2.2	2.2	2.2	1.9	1.9
65.5°	1.9	1.9	2.2	2.2	2.2	2.2	2.2	2.2	1.9	1.9	1.7
66°	1.9	1.9	1.9	2.2	1.9	1.9	1.9	1.9	1.9	1.7	1.7





TEST NUMBER: P775965

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.5	1.5
68°	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.5	1.5	1.5	1.2
68.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2
69°	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2
69.5°	1.2	1.2	1.5	1.5	1.5	1.5	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0
70.5°	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0
71°	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0
71.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72°	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7
72.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7
73°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7
73.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
74°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
74.5°	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5
75°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5
75.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2
78°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2
78.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2
79°	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
81°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
81.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
82.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
83°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	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: P775965  
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-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: P775965

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9
0.5°	1290.7	1293.4	1292.7	1292.7	1293.1	1294.1
1°	1288.8	1291.7	1291.2	1291.2	1292.4	1293.6
1.5°	1286.8	1289.7	1289.3	1289.7	1291.2	1293.1
2°	1284.4	1287.3	1287.1	1287.8	1289.7	1292.2
2.5°	1281.8	1284.9	1284.7	1285.6	1288.1	1291.0
3°	1279.1	1282.2	1282.0	1283.5	1286.1	1289.5
3.5°	1276.0	1279.1	1279.1	1280.8	1284.2	1288.1
4°	1272.6	1276.0	1276.0	1277.9	1281.5	1286.1
4.5°	1269.2	1272.3	1272.6	1274.7	1278.9	1283.9
5°	1265.1	1268.7	1268.9	1271.6	1276.0	1281.5
5.5°	1261.2	1264.6	1264.8	1268.0	1273.0	1278.9
6°	1256.6	1260.2	1260.7	1264.1	1269.4	1276.0
6.5°	1252.2	1255.6	1256.3	1259.7	1265.8	1272.8
7°	1247.2	1250.8	1251.5	1255.6	1261.9	1269.7
7.5°	1241.8	1245.7	1246.7	1250.8	1257.6	1265.8
8°	1236.5	1240.1	1241.3	1245.7	1253.2	1261.9
8.5°	1230.7	1234.6	1235.8	1240.4	1248.4	1257.6
9°	1224.6	1228.5	1230.0	1235.1	1243.3	1253.2
9.5°	1218.6	1222.5	1223.9	1229.0	1238.0	1248.4
10°	1211.8	1215.9	1217.4	1223.2	1232.4	1243.3
10.5°	1205.0	1208.9	1210.6	1216.7	1226.3	1237.7
11°	1197.3	1201.7	1203.6	1209.6	1219.8	1232.4
11.5°	1189.5	1193.7	1195.6	1202.1	1213.0	1226.3
12°	1181.3	1185.7	1187.4	1194.4	1205.8	1219.8
12.5°	1172.4	1176.7	1178.4	1185.4	1197.8	1212.8
13°	1163.2	1167.3	1169.0	1176.7	1189.8	1205.3
13.5°	1153.5	1157.8	1159.8	1167.5	1180.8	1197.3
14°	1143.3	1147.9	1149.9	1157.8	1171.9	1189.1
14.5°	1133.6	1138.0	1139.9	1148.4	1162.4	1180.4
15°	1124.7	1128.6	1130.5	1138.5	1153.2	1171.4
15.5°	1116.2	1119.8	1122.0	1129.8	1144.0	1162.4
16°	1107.7	1111.6	1113.8	1121.5	1135.8	1154.0
16.5°	1099.3	1103.4	1105.3	1113.6	1128.1	1146.2
17°	1091.0	1095.2	1097.1	1105.6	1120.3	1138.2
17.5°	1082.1	1086.4	1088.6	1097.6	1112.3	1130.7
18°	1070.5	1076.5	1078.9	1088.9	1104.4	1123.0
18.5°	1057.4	1063.2	1066.4	1078.7	1095.2	1114.8
19°	1042.4	1048.4	1052.8	1066.4	1084.3	1105.1
19.5°	1025.2	1030.8	1036.3	1052.1	1071.7	1094.0
20°	1005.9	1010.5	1018.0	1034.9	1057.2	1081.6
20.5°	984.8	988.9	997.4	1016.0	1040.2	1067.3
21°	962.5	966.4	975.4	994.5	1021.3	1051.8



TEST NUMBER: P775965

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	887.0	899.4	902.3	919.5	953.8	998.4
23°	860.6	877.1	877.1	893.1	928.4	979.0
23.5°	834.0	852.9	851.4	866.9	904.2	959.1
24°	808.6	827.5	824.6	841.0	880.0	937.1
24.5°	782.2	800.6	797.7	816.8	856.8	914.1
25°	756.6	772.3	771.3	791.7	834.3	890.2
25.5°	731.6	744.7	744.7	767.5	811.7	864.8
26°	707.0	715.9	717.4	743.0	788.8	838.9
26.5°	681.3	688.3	690.5	719.1	765.3	812.0
27°	655.9	659.3	664.4	693.4	740.6	785.1
27.5°	630.0	631.0	638.2	667.5	714.9	758.5
28°	604.8	603.1	611.8	640.6	687.3	732.1
28.5°	579.2	574.8	586.9	613.8	659.8	705.5
29°	553.5	546.2	560.8	587.2	630.5	678.2
29.5°	527.9	519.6	535.4	562.0	603.6	651.0
30°	502.4	493.5	509.2	536.3	575.5	623.7
30.5°	476.5	467.6	483.3	511.4	549.4	596.3
31°	451.4	442.9	456.0	486.7	523.3	567.8
31.5°	426.0	419.7	429.8	463.5	497.8	539.7
32°	401.5	396.4	404.9	440.0	472.7	511.4
32.5°	377.1	373.9	380.9	416.5	448.7	483.1
33°	354.1	351.2	358.0	392.1	423.8	454.8
33.5°	331.1	328.2	335.9	368.1	398.4	426.7
34°	309.1	306.6	314.1	344.4	372.5	399.3
34.5°	288.0	285.8	293.3	320.4	347.5	373.2
35°	267.2	266.0	272.5	297.4	322.1	348.5
35.5°	246.9	247.1	253.4	275.2	297.4	324.8
36°	229.2	229.9	234.0	253.6	273.7	301.8
36.5°	211.8	212.7	215.4	232.8	251.2	279.3
37°	194.1	196.8	197.7	212.5	229.9	258.0
37.5°	176.7	181.0	181.0	192.7	209.6	237.9
38°	159.0	165.5	165.5	173.3	190.2	218.3
38.5°	144.7	151.3	150.5	154.9	171.6	199.4
39°	130.5	137.7	136.7	137.7	154.2	182.0
39.5°	117.1	124.9	123.7	121.5	137.7	165.3
40°	104.3	113.0	111.3	106.2	121.5	149.6
40.5°	93.2	101.4	99.5	93.2	107.2	134.8
41°	82.0	91.0	88.3	82.5	93.9	120.8
41.5°	72.4	82.3	79.9	74.3	82.3	108.2
42°	63.4	73.8	71.4	66.1	74.1	96.3
42.5°	55.7	65.3	63.2	58.1	65.8	85.4
43°	48.6	56.9	54.7	49.9	57.6	76.7
43.5°	42.4	48.4	46.2	44.0	49.4	68.3



TEST NUMBER: P775965

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	28.1	30.5	29.5	29.5	32.9	42.6
45.5°	24.7	25.7	24.9	25.7	28.8	36.5
46°	21.1	21.3	21.3	22.0	24.7	31.0
46.5°	17.7	17.7	17.9	18.9	21.1	25.9
47°	14.3	15.2	15.2	16.2	17.9	21.8
47.5°	13.1	13.8	13.8	14.5	15.7	18.2
48°	12.3	12.8	13.1	13.6	14.3	15.7
48.5°	11.9	12.3	12.3	12.8	13.3	14.3
49°	11.4	11.9	11.9	12.3	12.8	13.6
49.5°	10.6	11.1	11.4	11.6	12.3	12.8
50°	10.2	10.6	10.6	11.1	11.6	12.3
50.5°	9.4	9.9	10.2	10.4	11.1	11.6
51°	9.0	9.4	9.4	9.9	10.4	11.1
51.5°	8.5	9.0	9.0	9.2	9.9	10.4
52°	8.0	8.2	8.5	8.7	9.2	9.9
52.5°	7.5	7.7	8.0	8.2	8.7	9.2
53°	7.0	7.3	7.5	7.7	8.2	8.7
53.5°	6.8	7.0	7.0	7.3	7.7	8.2
54°	6.3	6.5	6.5	7.0	7.3	7.7
54.5°	6.1	6.1	6.3	6.5	6.8	7.3
55°	5.6	5.8	5.8	6.1	6.5	6.8
55.5°	5.3	5.6	5.6	5.8	6.1	6.3
56°	5.1	5.1	5.3	5.6	5.8	6.1
56.5°	4.6	4.8	4.8	5.1	5.3	5.6
57°	4.4	4.6	4.6	4.8	5.1	5.3
57.5°	4.1	4.4	4.4	4.6	4.8	4.8
58°	3.9	4.1	4.1	4.4	4.6	4.6
58.5°	3.9	3.9	3.9	4.1	4.4	4.4
59°	3.6	3.6	3.6	3.9	4.1	4.1
59.5°	3.4	3.4	3.6	3.6	3.9	3.9
60°	3.1	3.4	3.4	3.4	3.6	3.6
60.5°	2.9	3.1	3.1	3.1	3.4	3.4
61°	2.9	2.9	2.9	3.1	3.1	3.4
61.5°	2.7	2.7	2.9	2.9	2.9	3.1
62°	2.7	2.7	2.7	2.7	2.9	2.9
62.5°	2.4	2.4	2.4	2.7	2.7	2.7
63°	2.2	2.4	2.4	2.4	2.4	2.7
63.5°	2.2	2.2	2.2	2.4	2.4	2.4
64°	1.9	2.2	2.2	2.2	2.2	2.4
64.5°	1.9	1.9	1.9	1.9	2.2	2.2
65°	1.9	1.9	1.9	1.9	1.9	2.2
65.5°	1.7	1.7	1.7	1.9	1.9	1.9
66°	1.7	1.7	1.7	1.7	1.7	1.9



TEST NUMBER: P775965  
 CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.5	1.5	1.5	1.5	1.5	1.5
68°	1.2	1.5	1.5	1.5	1.5	1.5
68.5°	1.2	1.2	1.2	1.2	1.2	1.5
69°	1.2	1.2	1.2	1.2	1.2	1.2
69.5°	1.0	1.2	1.2	1.2	1.2	1.2
70°	1.0	1.0	1.0	1.0	1.2	1.2
70.5°	1.0	1.0	1.0	1.0	1.0	1.0
71°	1.0	1.0	1.0	1.0	1.0	1.0
71.5°	1.0	1.0	1.0	1.0	1.0	1.0
72°	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.7	0.7	0.7
73°	0.7	0.7	0.7	0.7	0.7	0.7
73.5°	0.7	0.7	0.7	0.7	0.7	0.7
74°	0.7	0.7	0.7	0.7	0.7	0.7
74.5°	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.5	0.5	0.5	0.5	0.5	0.5
77°	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.2	0.5	0.5	0.5	0.2	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.2
78.5°	0.2	0.2	0.2	0.2	0.2	0.2
79°	0.2	0.2	0.2	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.2	0.2	0.2	0.2	0.2	0.2
81°	0.2	0.2	0.2	0.2	0.2	0.2
81.5°	0.2	0.2	0.2	0.2	0.0	0.0
82°	0.2	0.2	0.2	0.2	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: P775965  
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-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



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— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°

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21.5°	1034.9	1070.7	1105.8	1114.5	1110.2	1106.8	1096.6	1074.8	1042.4	1010.2	955.8
22°	1016.7	1055.7	1094.7	1103.1	1096.6	1094.0	1085.5	1061.5	1025.5	989.6	930.1



44°	59.8	73.6	96.1	104.3	103.8	97.1	89.8	79.1	65.1	48.6	36.5
44.5°	51.1	64.1	82.3	90.5	90.0	84.2	77.0	68.3	56.4	42.4	31.9



66.5°	1.7	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.7	1.7	1.5
67°	1.7	1.7	1.9	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.5



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



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21.5°	938.8	943.9	952.1	970.8	1000.5	1034.9
22°	913.9	921.1	927.7	945.8	977.5	1016.7



44°	36.8	41.9	39.9	38.7	43.3	59.8
44.5°	31.5	36.1	34.6	34.1	38.0	51.1



66.5°	1.5	1.7	1.7	1.7	1.7	1.7
67°	1.5	1.5	1.5	1.5	1.7	1.7

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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

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(END OF REPORT)