

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: P775919

Luminaire Tested: HCDJBS1525CSD-HCD42TRMW-1500lm-5000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775919  
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-5000K  
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

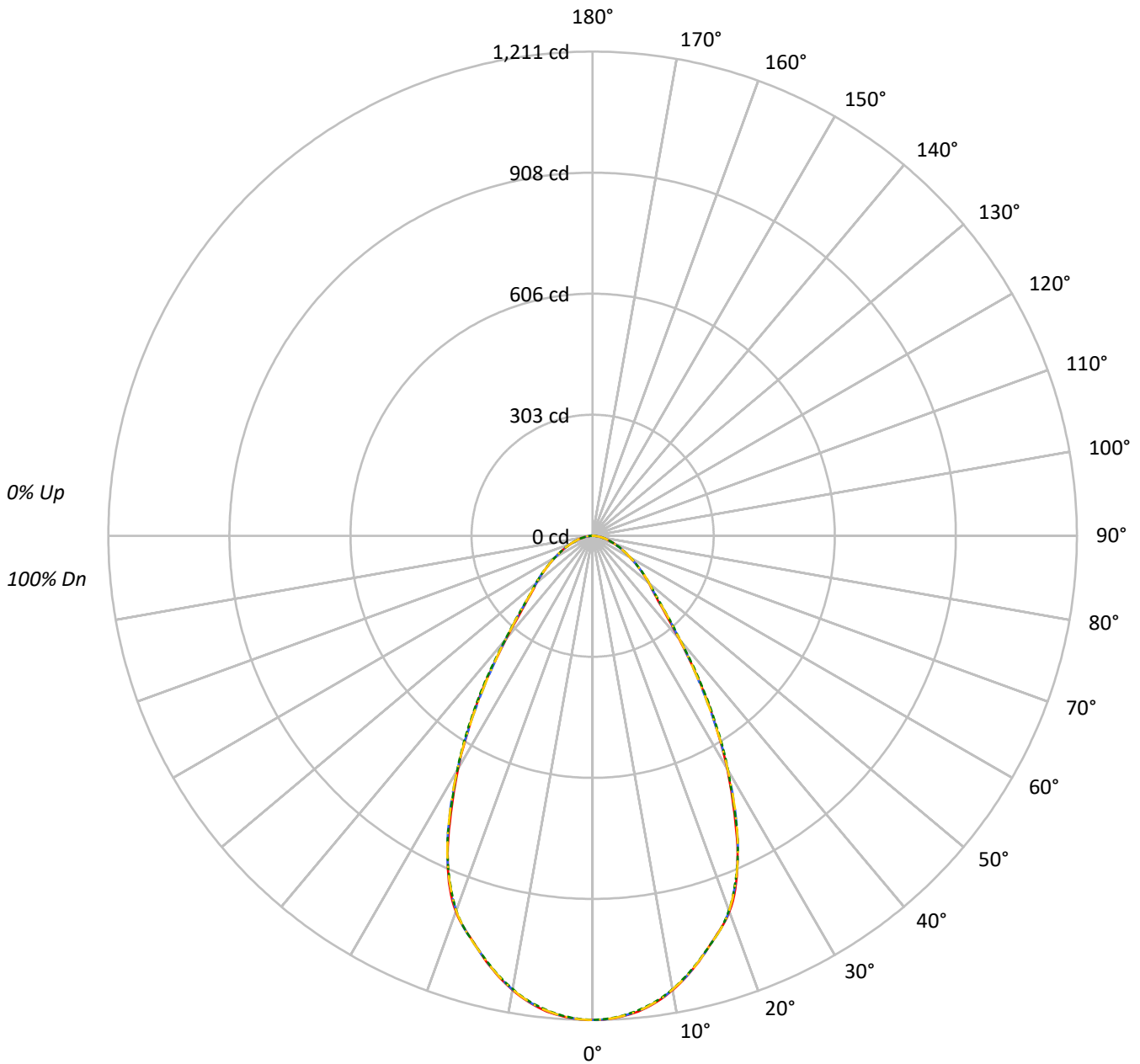
Lumens per Lamp: N/A  
Luminaire Lumens: 1563.8 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.97 / 0.95  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 15  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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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CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-5000K

### Luminous Intensity Polar Plot





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**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°	152417	152417	152417	152417
5°	151344	151016	151344	151016
10°	147433	147100	147433	147100
15°	140908	140738	140908	140738
20°	133980	133498	133980	133498
25°	118920	119295	118920	119295
30°	97843	98352	97843	98352
35°	75895	76725	75895	76725
40°	55134	56087	55134	56087
45°	41736	42786	41736	42786
50°	35947	36240	35947	36240
55°	31244	31595	31244	31595
60°	27309	27561	27309	27561
65°	24002	24210	24002	24210
70°	21195	21305	21195	21305
75°	18623	18623	18623	18623
80°	16089	16017	16089	16017
85°	12851	12851	12851	12851

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 42786 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	7.2
10°-20°	303.8	19.4
20°-30°	389.1	24.9
30°-40°	308.3	19.7
40°-50°	188.8	12.1
50°-60°	129.0	8.3
60°-70°	80.8	5.2
70°-80°	40.9	2.6
80°-90°	10.3	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°	805.7	51.5
0°-40°	1114.0	71.2
0°-60°	1431.8	91.6
0°-90°	1563.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1563.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1211	1211	1211	1211	1211	
5°	1198	1195	1198	1195	1198	113
15°	1082	1080	1082	1080	1082	304
25°	856	859	856	859	856	388
35°	494	499	494	499	494	308
45°	234	240	234	240	234	186
55°	142	144	142	144	142	128
65°	81	81	81	81	81	80
75°	38	38	38	38	38	41
85°	9	9	9	9	9	10
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°	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1
0.5°	1211.3	1211.1	1210.8	1210.6	1210.1	1210.6	1210.8	1211.1	1211.3	1211.1	1210.8
1°	1210.8	1210.6	1210.4	1210.3	1209.6	1210.3	1210.4	1210.6	1210.8	1210.6	1210.4
1.5°	1210.1	1209.8	1209.8	1209.5	1209.0	1209.5	1209.8	1209.8	1210.1	1209.8	1209.8
2°	1209.1	1209.0	1208.7	1208.5	1207.9	1208.5	1208.7	1209.0	1209.1	1209.0	1208.7
2.5°	1208.0	1207.7	1207.4	1207.2	1206.4	1207.2	1207.4	1207.7	1208.0	1207.7	1207.4
3°	1206.4	1206.1	1205.7	1205.4	1204.6	1205.4	1205.7	1206.1	1206.4	1206.1	1205.7
3.5°	1204.6	1204.3	1203.8	1203.5	1203.0	1203.5	1203.8	1204.3	1204.6	1204.3	1203.8
4°	1202.5	1202.3	1201.7	1201.4	1200.6	1201.4	1201.7	1202.3	1202.5	1202.3	1201.7
4.5°	1200.2	1199.9	1199.3	1198.9	1198.0	1198.9	1199.3	1199.9	1200.2	1199.9	1199.3
5°	1198.0	1197.5	1196.8	1196.5	1195.4	1196.5	1196.8	1197.5	1198.0	1197.5	1196.8
5.5°	1195.5	1194.4	1193.6	1193.3	1192.3	1193.3	1193.6	1194.4	1195.5	1194.4	1193.6
6°	1191.8	1191.1	1190.3	1189.8	1188.6	1189.8	1190.3	1191.1	1191.8	1191.1	1190.3
6.5°	1188.1	1187.6	1186.6	1186.1	1184.8	1186.1	1186.6	1187.6	1188.1	1187.6	1186.6
7°	1184.2	1183.5	1183.0	1182.2	1181.1	1182.2	1183.0	1183.5	1184.2	1183.5	1183.0
7.5°	1179.8	1179.1	1178.5	1178.2	1177.0	1178.2	1178.5	1179.1	1179.8	1179.1	1178.5
8°	1175.1	1174.6	1174.0	1173.5	1172.8	1173.5	1174.0	1174.6	1175.1	1174.6	1174.0
8.5°	1170.2	1169.6	1168.9	1168.4	1167.8	1168.4	1168.9	1169.6	1170.2	1169.6	1168.9
9°	1165.0	1164.5	1163.7	1163.2	1162.6	1163.2	1163.7	1164.5	1165.0	1164.5	1163.7
9.5°	1159.4	1159.0	1158.2	1157.7	1157.1	1157.7	1158.2	1159.0	1159.4	1159.0	1158.2
10°	1153.7	1153.2	1152.5	1151.9	1151.1	1151.9	1152.5	1153.2	1153.7	1153.2	1152.5
10.5°	1147.4	1147.0	1146.2	1145.7	1145.1	1145.7	1146.2	1147.0	1147.4	1147.0	1146.2
11°	1141.0	1140.7	1140.1	1139.4	1138.6	1139.4	1140.1	1140.7	1141.0	1140.7	1140.1
11.5°	1134.4	1134.1	1133.4	1132.8	1132.1	1132.8	1133.4	1134.1	1134.4	1134.1	1133.4
12°	1127.6	1127.2	1126.8	1125.9	1125.3	1125.9	1126.8	1127.2	1127.6	1127.2	1126.8
12.5°	1120.4	1120.1	1119.6	1118.8	1118.0	1118.8	1119.6	1120.1	1120.4	1120.1	1119.6
13°	1113.1	1112.8	1112.3	1111.7	1110.9	1111.7	1112.3	1112.8	1113.1	1112.8	1112.3
13.5°	1105.5	1105.2	1104.9	1104.2	1103.6	1104.2	1104.9	1105.2	1105.5	1105.2	1104.9
14°	1097.7	1097.6	1097.2	1096.6	1095.9	1096.6	1097.2	1097.6	1097.7	1097.6	1097.2
14.5°	1089.6	1089.5	1089.3	1088.6	1088.0	1088.6	1089.3	1089.5	1089.6	1089.5	1089.3
15°	1081.5	1081.5	1081.2	1080.9	1080.2	1080.9	1081.2	1081.5	1081.5	1081.5	1081.2
15.5°	1073.1	1073.1	1073.4	1073.1	1072.7	1073.1	1073.4	1073.1	1073.1	1073.1	1073.4
16°	1065.0	1065.1	1065.6	1065.4	1065.1	1065.4	1065.6	1065.1	1065.0	1065.1	1065.6
16.5°	1056.8	1057.2	1057.8	1057.8	1057.7	1057.8	1057.8	1057.2	1056.8	1057.2	1057.8
17°	1049.2	1049.6	1050.2	1050.0	1050.2	1050.0	1050.2	1049.6	1049.2	1049.6	1050.2
17.5°	1041.8	1042.1	1042.6	1042.4	1042.3	1042.4	1042.6	1042.1	1041.8	1042.1	1042.6
18°	1034.5	1034.6	1035.0	1034.6	1034.3	1034.6	1035.0	1034.6	1034.5	1034.6	1035.0
18.5°	1026.7	1026.7	1026.7	1026.4	1025.9	1026.4	1026.7	1026.7	1026.7	1026.7	1026.7
19°	1018.7	1018.2	1017.9	1017.4	1017.0	1017.4	1017.9	1018.2	1018.7	1018.2	1017.9
19.5°	1010.0	1009.3	1008.4	1008.0	1007.5	1008.0	1008.4	1009.3	1010.0	1009.3	1008.4
20°	1000.4	999.6	997.8	998.0	996.8	998.0	997.8	999.6	1000.4	999.6	997.8
20.5°	989.9	988.6	986.5	987.1	985.8	987.1	986.5	988.6	989.9	988.6	986.5
21°	978.8	976.9	974.5	975.3	973.6	975.3	974.5	976.9	978.8	976.9	974.5



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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°	938.4	936.5	934.9	934.7	933.9	934.7	934.9	936.5	938.4	936.5	934.9
23°	923.0	921.4	921.1	920.0	919.6	920.0	921.1	921.4	923.0	921.4	921.1
23.5°	907.3	905.8	906.7	904.7	905.5	904.7	906.7	905.8	907.3	905.8	906.7
24°	890.9	889.8	891.7	889.1	890.6	889.1	891.7	889.8	890.9	889.8	891.7
24.5°	874.1	873.6	876.0	873.4	875.4	873.4	876.0	873.6	874.1	873.6	876.0
25°	856.4	856.7	859.6	857.7	859.1	857.7	859.6	856.7	856.4	856.7	859.6
25.5°	838.1	840.2	842.8	841.9	842.3	841.9	842.8	840.2	838.1	840.2	842.8
26°	819.2	823.0	825.4	825.6	824.3	825.6	825.4	823.0	819.2	823.0	825.4
26.5°	799.9	805.5	807.4	808.5	805.6	808.5	807.4	805.5	799.9	805.5	807.4
27°	781.1	787.3	789.2	791.0	786.6	791.0	789.2	787.3	781.1	787.3	789.2
27.5°	762.6	768.5	770.7	773.0	767.3	773.0	770.7	768.5	762.6	768.5	770.7
28°	744.1	749.7	751.9	754.2	748.0	754.2	751.9	749.7	744.1	749.7	751.9
28.5°	726.1	730.5	733.1	735.1	729.4	735.1	733.1	730.5	726.1	730.5	733.1
29°	708.3	711.2	714.3	715.6	711.7	715.6	714.3	711.2	708.3	711.2	714.3
29.5°	690.8	692.2	695.6	696.1	694.3	696.1	695.6	692.2	690.8	692.2	695.6
30°	673.3	672.8	676.5	676.7	676.8	676.7	676.5	672.8	673.3	672.8	676.5
30.5°	655.1	654.0	657.5	657.9	660.3	657.9	657.5	654.0	655.1	654.0	657.5
31°	637.1	634.7	638.4	639.0	642.8	639.0	638.4	634.7	637.1	634.7	638.4
31.5°	618.6	616.2	619.3	620.4	625.1	620.4	619.3	616.2	618.6	616.2	619.3
32°	599.8	597.5	600.3	602.1	606.9	602.1	600.3	597.5	599.8	597.5	600.3
32.5°	581.6	579.7	581.6	583.9	588.8	583.9	581.6	579.7	581.6	579.7	581.6
33°	563.3	561.8	562.5	565.7	570.3	565.7	562.5	561.8	563.3	561.8	562.5
33.5°	546.9	544.0	543.5	547.6	551.6	547.6	543.5	544.0	546.9	544.0	543.5
34°	529.2	526.2	524.7	529.7	533.9	529.7	524.7	526.2	529.2	526.2	524.7
34.5°	511.7	508.5	506.4	511.7	516.4	511.7	506.4	508.5	511.7	508.5	506.4
35°	494.0	491.3	489.0	494.4	499.4	494.4	489.0	491.3	494.0	491.3	489.0
35.5°	476.8	474.3	471.8	477.2	482.7	477.2	471.8	474.3	476.8	474.3	471.8
36°	460.0	457.2	455.1	460.6	466.3	460.6	455.1	457.2	460.0	457.2	455.1
36.5°	443.3	440.8	438.9	444.2	449.6	444.2	438.9	440.8	443.3	440.8	438.9
37°	426.4	424.6	423.0	428.4	433.1	428.4	423.0	424.6	426.4	424.6	423.0
37.5°	410.0	408.9	407.8	413.1	416.5	413.1	407.8	408.9	410.0	408.9	407.8
38°	393.8	393.6	393.2	398.2	400.1	398.2	393.2	393.6	393.8	393.6	393.2
38.5°	378.6	378.9	379.2	383.6	384.4	383.6	379.2	378.9	378.6	378.9	379.2
39°	363.8	364.6	365.3	369.5	369.3	369.5	365.3	364.6	363.8	364.6	365.3
39.5°	349.4	350.8	352.0	355.5	355.0	355.5	352.0	350.8	349.4	350.8	352.0
40°	335.6	337.2	339.1	342.1	341.4	342.1	339.1	337.2	335.6	337.2	339.1
40.5°	322.6	324.2	326.8	328.9	328.8	328.9	326.8	324.2	322.6	324.2	326.8
41°	310.1	311.7	315.1	316.6	317.1	316.6	315.1	311.7	310.1	311.7	315.1
41.5°	298.3	300.1	303.9	304.8	306.2	304.8	303.9	300.1	298.3	300.1	303.9
42°	287.2	289.0	293.2	293.7	295.7	293.7	293.2	289.0	287.2	289.0	293.2
42.5°	276.9	278.6	283.2	283.4	285.5	283.4	283.2	278.6	276.9	278.6	283.2
43°	267.0	268.9	273.3	273.6	275.6	273.6	273.3	268.9	267.0	268.9	273.3
43.5°	257.9	259.8	264.1	264.2	266.0	264.2	264.1	259.8	257.9	259.8	264.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	234.5	236.2	238.7	239.6	240.4	239.6	238.7	236.2	234.5	236.2	238.7
45.5°	227.7	229.0	231.4	232.3	232.9	232.3	231.4	229.0	227.7	229.0	231.4
46°	221.2	222.4	224.5	225.6	225.9	225.6	224.5	222.4	221.2	222.4	224.5
46.5°	215.2	216.2	217.8	219.1	219.4	219.1	217.8	216.2	215.2	216.2	217.8
47°	209.6	210.2	211.8	213.1	213.6	213.1	211.8	210.2	209.6	210.2	211.8
47.5°	204.2	204.7	206.1	207.6	208.3	207.6	206.1	204.7	204.2	204.7	206.1
48°	199.2	199.8	201.3	202.6	203.2	202.6	201.3	199.8	199.2	199.8	201.3
48.5°	195.1	195.4	196.6	197.9	198.4	197.9	196.6	195.4	195.1	195.4	196.6
49°	191.2	191.4	192.4	193.3	193.8	193.3	192.4	191.4	191.2	191.4	192.4
49.5°	187.5	187.7	188.3	189.1	189.3	189.1	188.3	187.7	187.5	187.7	188.3
50°	183.6	183.8	184.3	184.9	185.1	184.9	184.3	183.8	183.6	183.8	184.3
50.5°	179.7	179.9	180.2	180.8	180.8	180.8	180.2	179.9	179.7	179.9	180.2
51°	175.3	175.7	176.1	176.8	176.8	176.8	176.1	175.7	175.3	175.7	176.1
51.5°	171.1	171.3	171.9	172.7	172.9	172.7	171.9	171.3	171.1	171.3	171.9
52°	166.7	167.1	167.7	168.5	168.7	168.5	167.7	167.1	166.7	167.1	167.7
52.5°	162.4	162.7	163.5	164.1	164.5	164.1	163.5	162.7	162.4	162.7	163.5
53°	158.3	158.6	159.3	159.9	160.2	159.9	159.3	158.6	158.3	158.6	159.3
53.5°	154.1	154.4	155.1	155.9	156.2	155.9	155.1	154.4	154.1	154.4	155.1
54°	150.2	150.4	151.0	151.7	152.0	151.7	151.0	150.4	150.2	150.4	151.0
54.5°	146.3	146.5	147.1	147.8	148.1	147.8	147.1	146.5	146.3	146.5	147.1
55°	142.4	142.7	143.4	143.9	144.0	143.9	143.4	142.7	142.4	142.7	143.4
55.5°	138.7	139.0	139.6	140.1	140.3	140.1	139.6	139.0	138.7	139.0	139.6
56°	135.1	135.4	135.9	136.4	136.6	136.4	135.9	135.4	135.1	135.4	135.9
56.5°	131.5	131.9	132.3	132.8	133.0	132.8	132.3	131.9	131.5	131.9	132.3
57°	128.0	128.3	128.8	129.3	129.4	129.3	128.8	128.3	128.0	128.3	128.8
57.5°	124.4	124.9	125.4	125.7	126.0	125.7	125.4	124.9	124.4	124.9	125.4
58°	121.3	121.5	122.0	122.5	122.6	122.5	122.0	121.5	121.3	121.5	122.0
58.5°	118.1	118.2	118.7	119.0	119.2	119.0	118.7	118.2	118.1	118.2	118.7
59°	114.8	115.0	115.3	115.6	116.0	115.6	115.3	115.0	114.8	115.0	115.3
59.5°	111.6	111.8	112.1	112.6	112.7	112.6	112.1	111.8	111.6	111.8	112.1
60°	108.5	108.7	109.0	109.3	109.5	109.3	109.0	108.7	108.5	108.7	109.0
60.5°	105.4	105.6	105.9	106.2	106.4	106.2	105.9	105.6	105.4	105.6	105.9
61°	102.5	102.7	103.0	103.3	103.5	103.3	103.0	102.7	102.5	102.7	103.0
61.5°	99.6	99.7	100.1	100.4	100.6	100.4	100.1	99.7	99.6	99.7	100.1
62°	96.8	96.8	97.2	97.5	97.5	97.5	97.2	96.8	96.8	96.8	97.2
62.5°	93.9	94.1	94.2	94.6	94.7	94.6	94.2	94.1	93.9	94.1	94.2
63°	91.2	91.3	91.5	91.8	91.8	91.8	91.5	91.3	91.2	91.3	91.5
63.5°	88.4	88.6	88.7	89.0	89.2	89.0	88.7	88.6	88.4	88.6	88.7
64°	85.8	86.0	86.1	86.3	86.4	86.3	86.1	86.0	85.8	86.0	86.1
64.5°	83.2	83.4	83.5	83.7	83.9	83.7	83.5	83.4	83.2	83.4	83.5
65°	80.6	80.8	80.9	81.1	81.3	81.1	80.9	80.8	80.6	80.8	80.9
65.5°	78.2	78.2	78.3	78.7	78.7	78.7	78.3	78.2	78.2	78.2	78.3
66°	75.6	75.7	75.9	76.1	76.2	76.1	75.9	75.7	75.6	75.7	75.9





TEST NUMBER: P775919

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMW-1500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	68.4	68.6	68.8	68.9	68.9	68.9	68.8	68.6	68.4	68.6	68.8
68°	66.2	66.3	66.5	66.7	66.7	66.7	66.5	66.3	66.2	66.3	66.5
68.5°	63.9	64.1	64.2	64.2	64.4	64.2	64.2	64.1	63.9	64.1	64.2
69°	61.8	61.8	61.8	62.1	62.1	62.1	61.8	61.8	61.8	61.8	61.8
69.5°	59.5	59.7	59.7	59.8	60.0	59.8	59.7	59.7	59.5	59.7	59.7
70°	57.6	57.7	57.6	57.7	57.9	57.7	57.6	57.7	57.6	57.7	57.6
70.5°	55.5	55.6	55.6	55.6	55.8	55.6	55.6	55.6	55.5	55.6	55.6
71°	53.5	53.5	53.5	53.5	53.7	53.5	53.5	53.5	53.5	53.5	53.5
71.5°	51.4	51.4	51.6	51.6	51.6	51.6	51.6	51.4	51.4	51.4	51.6
72°	49.5	49.5	49.5	49.6	49.6	49.6	49.5	49.5	49.5	49.5	49.5
72.5°	47.5	47.5	47.5	47.7	47.7	47.7	47.5	47.5	47.5	47.5	47.5
73°	45.6	45.6	45.6	45.7	45.7	45.7	45.6	45.6	45.6	45.6	45.6
73.5°	43.6	43.6	43.8	43.8	43.8	43.8	43.8	43.6	43.6	43.6	43.8
74°	41.8	41.8	41.8	42.0	42.0	42.0	41.8	41.8	41.8	41.8	41.8
74.5°	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
75°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
75.5°	36.5	36.5	36.5	36.5	36.7	36.5	36.5	36.5	36.5	36.5	36.5
76°	34.9	34.7	34.7	34.9	34.9	34.9	34.7	34.7	34.9	34.7	34.7
76.5°	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
77°	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
77.5°	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
78°	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
78.5°	26.8	26.8	26.6	26.6	26.8	26.6	26.6	26.8	26.8	26.8	26.6
79°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
79.5°	23.7	23.7	23.5	23.7	23.7	23.7	23.5	23.7	23.7	23.7	23.5
80°	22.2	22.2	22.1	22.1	22.1	22.1	22.1	22.2	22.2	22.2	22.1
80.5°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
81°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
81.5°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
82°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
82.5°	15.2	15.2	15.2	15.2	15.1	15.2	15.2	15.2	15.2	15.2	15.2
83°	13.9	13.9	13.9	13.8	13.8	13.8	13.9	13.9	13.9	13.9	13.9
83.5°	12.7	12.7	12.7	12.5	12.5	12.5	12.7	12.7	12.7	12.7	12.7
84°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
84.5°	10.2	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.2	10.1	10.1
85°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
85.5°	7.8	7.6	7.8	7.6	7.8	7.6	7.8	7.6	7.8	7.6	7.8
86°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
86.5°	5.5	5.4	5.4	5.4	5.5	5.4	5.4	5.4	5.5	5.4	5.4
87°	4.4	4.4	4.4	4.2	4.4	4.2	4.4	4.4	4.4	4.4	4.4
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	2.3	2.3	2.4	2.4	2.4	2.3	2.3	2.1	2.3	2.3
88.5°	1.3	1.3	1.5	1.6	1.9	1.6	1.5	1.3	1.3	1.3	1.5



TEST NUMBER: P775919

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-5000K

**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: P775919

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1
0.5°	1210.6	1210.1	1210.6	1210.8	1211.1	1211.3
1°	1210.3	1209.6	1210.3	1210.4	1210.6	1210.8
1.5°	1209.5	1209.0	1209.5	1209.8	1209.8	1210.1
2°	1208.5	1207.9	1208.5	1208.7	1209.0	1209.1
2.5°	1207.2	1206.4	1207.2	1207.4	1207.7	1208.0
3°	1205.4	1204.6	1205.4	1205.7	1206.1	1206.4
3.5°	1203.5	1203.0	1203.5	1203.8	1204.3	1204.6
4°	1201.4	1200.6	1201.4	1201.7	1202.3	1202.5
4.5°	1198.9	1198.0	1198.9	1199.3	1199.9	1200.2
5°	1196.5	1195.4	1196.5	1196.8	1197.5	1198.0
5.5°	1193.3	1192.3	1193.3	1193.6	1194.4	1195.5
6°	1189.8	1188.6	1189.8	1190.3	1191.1	1191.8
6.5°	1186.1	1184.8	1186.1	1186.6	1187.6	1188.1
7°	1182.2	1181.1	1182.2	1183.0	1183.5	1184.2
7.5°	1178.2	1177.0	1178.2	1178.5	1179.1	1179.8
8°	1173.5	1172.8	1173.5	1174.0	1174.6	1175.1
8.5°	1168.4	1167.8	1168.4	1168.9	1169.6	1170.2
9°	1163.2	1162.6	1163.2	1163.7	1164.5	1165.0
9.5°	1157.7	1157.1	1157.7	1158.2	1159.0	1159.4
10°	1151.9	1151.1	1151.9	1152.5	1153.2	1153.7
10.5°	1145.7	1145.1	1145.7	1146.2	1147.0	1147.4
11°	1139.4	1138.6	1139.4	1140.1	1140.7	1141.0
11.5°	1132.8	1132.1	1132.8	1133.4	1134.1	1134.4
12°	1125.9	1125.3	1125.9	1126.8	1127.2	1127.6
12.5°	1118.8	1118.0	1118.8	1119.6	1120.1	1120.4
13°	1111.7	1110.9	1111.7	1112.3	1112.8	1113.1
13.5°	1104.2	1103.6	1104.2	1104.9	1105.2	1105.5
14°	1096.6	1095.9	1096.6	1097.2	1097.6	1097.7
14.5°	1088.6	1088.0	1088.6	1089.3	1089.5	1089.6
15°	1080.9	1080.2	1080.9	1081.2	1081.5	1081.5
15.5°	1073.1	1072.7	1073.1	1073.4	1073.1	1073.1
16°	1065.4	1065.1	1065.4	1065.6	1065.1	1065.0
16.5°	1057.8	1057.7	1057.8	1057.8	1057.2	1056.8
17°	1050.0	1050.2	1050.0	1050.2	1049.6	1049.2
17.5°	1042.4	1042.3	1042.4	1042.6	1042.1	1041.8
18°	1034.6	1034.3	1034.6	1035.0	1034.6	1034.5
18.5°	1026.4	1025.9	1026.4	1026.7	1026.7	1026.7
19°	1017.4	1017.0	1017.4	1017.9	1018.2	1018.7
19.5°	1008.0	1007.5	1008.0	1008.4	1009.3	1010.0
20°	998.0	996.8	998.0	997.8	999.6	1000.4
20.5°	987.1	985.8	987.1	986.5	988.6	989.9
21°	975.3	973.6	975.3	974.5	976.9	978.8



TEST NUMBER: P775919

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	934.7	933.9	934.7	934.9	936.5	938.4
23°	920.0	919.6	920.0	921.1	921.4	923.0
23.5°	904.7	905.5	904.7	906.7	905.8	907.3
24°	889.1	890.6	889.1	891.7	889.8	890.9
24.5°	873.4	875.4	873.4	876.0	873.6	874.1
25°	857.7	859.1	857.7	859.6	856.7	856.4
25.5°	841.9	842.3	841.9	842.8	840.2	838.1
26°	825.6	824.3	825.6	825.4	823.0	819.2
26.5°	808.5	805.6	808.5	807.4	805.5	799.9
27°	791.0	786.6	791.0	789.2	787.3	781.1
27.5°	773.0	767.3	773.0	770.7	768.5	762.6
28°	754.2	748.0	754.2	751.9	749.7	744.1
28.5°	735.1	729.4	735.1	733.1	730.5	726.1
29°	715.6	711.7	715.6	714.3	711.2	708.3
29.5°	696.1	694.3	696.1	695.6	692.2	690.8
30°	676.7	676.8	676.7	676.5	672.8	673.3
30.5°	657.9	660.3	657.9	657.5	654.0	655.1
31°	639.0	642.8	639.0	638.4	634.7	637.1
31.5°	620.4	625.1	620.4	619.3	616.2	618.6
32°	602.1	606.9	602.1	600.3	597.5	599.8
32.5°	583.9	588.8	583.9	581.6	579.7	581.6
33°	565.7	570.3	565.7	562.5	561.8	563.3
33.5°	547.6	551.6	547.6	543.5	544.0	546.9
34°	529.7	533.9	529.7	524.7	526.2	529.2
34.5°	511.7	516.4	511.7	506.4	508.5	511.7
35°	494.4	499.4	494.4	489.0	491.3	494.0
35.5°	477.2	482.7	477.2	471.8	474.3	476.8
36°	460.6	466.3	460.6	455.1	457.2	460.0
36.5°	444.2	449.6	444.2	438.9	440.8	443.3
37°	428.4	433.1	428.4	423.0	424.6	426.4
37.5°	413.1	416.5	413.1	407.8	408.9	410.0
38°	398.2	400.1	398.2	393.2	393.6	393.8
38.5°	383.6	384.4	383.6	379.2	378.9	378.6
39°	369.5	369.3	369.5	365.3	364.6	363.8
39.5°	355.5	355.0	355.5	352.0	350.8	349.4
40°	342.1	341.4	342.1	339.1	337.2	335.6
40.5°	328.9	328.8	328.9	326.8	324.2	322.6
41°	316.6	317.1	316.6	315.1	311.7	310.1
41.5°	304.8	306.2	304.8	303.9	300.1	298.3
42°	293.7	295.7	293.7	293.2	289.0	287.2
42.5°	283.4	285.5	283.4	283.2	278.6	276.9
43°	273.6	275.6	273.6	273.3	268.9	267.0
43.5°	264.2	266.0	264.2	264.1	259.8	257.9



TEST NUMBER: P775919

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	239.6	240.4	239.6	238.7	236.2	234.5
45.5°	232.3	232.9	232.3	231.4	229.0	227.7
46°	225.6	225.9	225.6	224.5	222.4	221.2
46.5°	219.1	219.4	219.1	217.8	216.2	215.2
47°	213.1	213.6	213.1	211.8	210.2	209.6
47.5°	207.6	208.3	207.6	206.1	204.7	204.2
48°	202.6	203.2	202.6	201.3	199.8	199.2
48.5°	197.9	198.4	197.9	196.6	195.4	195.1
49°	193.3	193.8	193.3	192.4	191.4	191.2
49.5°	189.1	189.3	189.1	188.3	187.7	187.5
50°	184.9	185.1	184.9	184.3	183.8	183.6
50.5°	180.8	180.8	180.8	180.2	179.9	179.7
51°	176.8	176.8	176.8	176.1	175.7	175.3
51.5°	172.7	172.9	172.7	171.9	171.3	171.1
52°	168.5	168.7	168.5	167.7	167.1	166.7
52.5°	164.1	164.5	164.1	163.5	162.7	162.4
53°	159.9	160.2	159.9	159.3	158.6	158.3
53.5°	155.9	156.2	155.9	155.1	154.4	154.1
54°	151.7	152.0	151.7	151.0	150.4	150.2
54.5°	147.8	148.1	147.8	147.1	146.5	146.3
55°	143.9	144.0	143.9	143.4	142.7	142.4
55.5°	140.1	140.3	140.1	139.6	139.0	138.7
56°	136.4	136.6	136.4	135.9	135.4	135.1
56.5°	132.8	133.0	132.8	132.3	131.9	131.5
57°	129.3	129.4	129.3	128.8	128.3	128.0
57.5°	125.7	126.0	125.7	125.4	124.9	124.4
58°	122.5	122.6	122.5	122.0	121.5	121.3
58.5°	119.0	119.2	119.0	118.7	118.2	118.1
59°	115.6	116.0	115.6	115.3	115.0	114.8
59.5°	112.6	112.7	112.6	112.1	111.8	111.6
60°	109.3	109.5	109.3	109.0	108.7	108.5
60.5°	106.2	106.4	106.2	105.9	105.6	105.4
61°	103.3	103.5	103.3	103.0	102.7	102.5
61.5°	100.4	100.6	100.4	100.1	99.7	99.6
62°	97.5	97.5	97.5	97.2	96.8	96.8
62.5°	94.6	94.7	94.6	94.2	94.1	93.9
63°	91.8	91.8	91.8	91.5	91.3	91.2
63.5°	89.0	89.2	89.0	88.7	88.6	88.4
64°	86.3	86.4	86.3	86.1	86.0	85.8
64.5°	83.7	83.9	83.7	83.5	83.4	83.2
65°	81.1	81.3	81.1	80.9	80.8	80.6
65.5°	78.7	78.7	78.7	78.3	78.2	78.2
66°	76.1	76.2	76.1	75.9	75.7	75.6



TEST NUMBER: P775919

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	68.9	68.9	68.9	68.8	68.6	68.4
68°	66.7	66.7	66.7	66.5	66.3	66.2
68.5°	64.2	64.4	64.2	64.2	64.1	63.9
69°	62.1	62.1	62.1	61.8	61.8	61.8
69.5°	59.8	60.0	59.8	59.7	59.7	59.5
70°	57.7	57.9	57.7	57.6	57.7	57.6
70.5°	55.6	55.8	55.6	55.6	55.6	55.5
71°	53.5	53.7	53.5	53.5	53.5	53.5
71.5°	51.6	51.6	51.6	51.6	51.4	51.4
72°	49.6	49.6	49.6	49.5	49.5	49.5
72.5°	47.7	47.7	47.7	47.5	47.5	47.5
73°	45.7	45.7	45.7	45.6	45.6	45.6
73.5°	43.8	43.8	43.8	43.8	43.6	43.6
74°	42.0	42.0	42.0	41.8	41.8	41.8
74.5°	40.1	40.1	40.1	40.1	40.1	40.1
75°	38.3	38.3	38.3	38.3	38.3	38.3
75.5°	36.5	36.7	36.5	36.5	36.5	36.5
76°	34.9	34.9	34.9	34.7	34.7	34.9
76.5°	33.1	33.1	33.1	33.1	33.1	33.1
77°	31.5	31.5	31.5	31.5	31.5	31.5
77.5°	29.8	29.8	29.8	29.8	29.8	29.8
78°	28.2	28.2	28.2	28.2	28.2	28.2
78.5°	26.6	26.8	26.6	26.6	26.8	26.8
79°	25.1	25.1	25.1	25.1	25.1	25.1
79.5°	23.7	23.7	23.7	23.5	23.7	23.7
80°	22.1	22.1	22.1	22.1	22.2	22.2
80.5°	20.8	20.8	20.8	20.8	20.8	20.8
81°	19.3	19.3	19.3	19.3	19.3	19.3
81.5°	17.8	17.8	17.8	17.8	17.8	17.8
82°	16.5	16.5	16.5	16.5	16.5	16.5
82.5°	15.2	15.1	15.2	15.2	15.2	15.2
83°	13.8	13.8	13.8	13.9	13.9	13.9
83.5°	12.5	12.5	12.5	12.7	12.7	12.7
84°	11.4	11.4	11.4	11.4	11.4	11.4
84.5°	10.1	10.1	10.1	10.1	10.1	10.2
85°	8.9	8.9	8.9	8.9	8.9	8.9
85.5°	7.6	7.8	7.6	7.8	7.6	7.8
86°	6.5	6.5	6.5	6.5	6.5	6.5
86.5°	5.4	5.5	5.4	5.4	5.4	5.5
87°	4.2	4.4	4.2	4.4	4.4	4.4
87.5°	3.2	3.4	3.2	3.2	3.2	3.2
88°	2.4	2.4	2.4	2.3	2.3	2.1
88.5°	1.6	1.9	1.6	1.5	1.3	1.3



TEST NUMBER: P775919

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-1500lm-5000K

**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



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Scaled Data Report





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

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Scaled Data Report



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Scaled Data Report





21.5°	966.0	964.4	961.6	962.5	960.8	962.5	961.6	964.4	966.0	964.4	961.6
22°	952.6	950.9	948.5	948.8	947.2	948.8	948.5	950.9	952.6	950.9	948.5



44°	249.5	251.4	255.1	255.5	257.1	255.5	255.1	251.4	249.5	251.4	255.1
44.5°	241.7	243.6	246.9	247.3	248.5	247.3	246.9	243.6	241.7	243.6	246.9



66.5°	73.1	73.3	73.5	73.6	73.8	73.6	73.5	73.3	73.1	73.3	73.5
67°	70.9	70.9	71.0	71.2	71.4	71.2	71.0	70.9	70.9	70.9	71.0



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



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21.5°	962.5	960.8	962.5	961.6	964.4	966.0
22°	948.8	947.2	948.8	948.5	950.9	952.6



44°	255.5	257.1	255.5	255.1	251.4	249.5
44.5°	247.3	248.5	247.3	246.9	243.6	241.7



66.5°	73.6	73.8	73.6	73.5	73.3	73.1
67°	71.2	71.4	71.2	71.0	70.9	70.9



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

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Scaled Data Report



(END OF REPORT)