

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: P775793

Luminaire Tested: HCDJBL5510CSD-HCD6TSQC-1000lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775793
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: HCDJBL510CSD-HCD6TSQC-1000lm-4000K
Description: 6 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

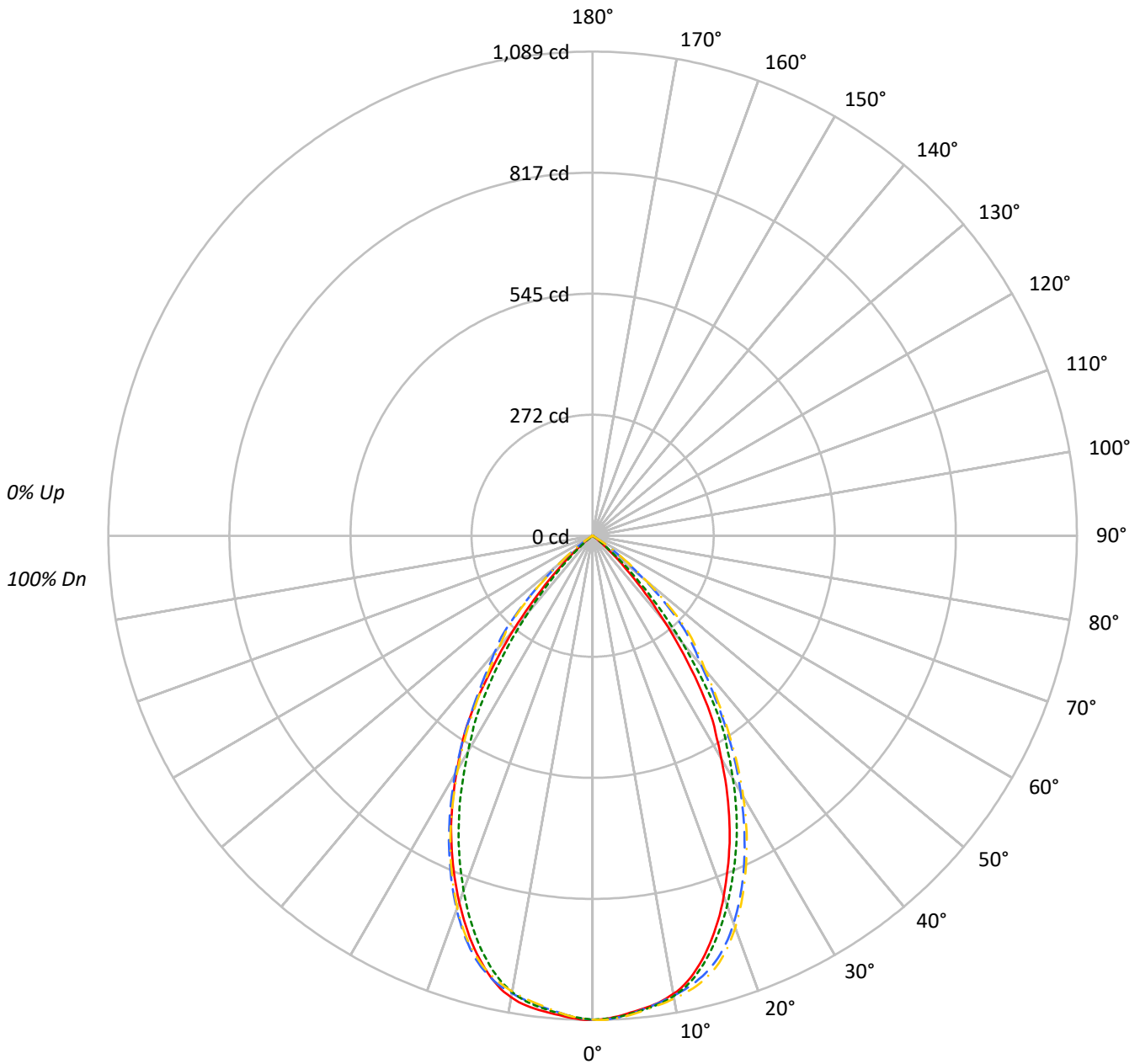
Lumens per Lamp: N/A
Luminaire Lumens: 1187.2 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.99
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	99	97	97	96	95	93
	1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	92	90	89	88	87	85
	2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	84	83	82	81	80	79
	3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79	79	78	77	76	75	74	72
	4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	71	70	69	68	67	67
	5	90	81	75	70	89	80	74	70	78	73	69	77	72	69	75	71	68	67	67	66	65	64	63	62	62
	6	85	76	69	65	84	75	69	64	73	68	64	72	67	64	71	66	63	62	62	61	60	59	58	57	57
	7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57	57	56	55	54	53	52	52
	8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53	53	52	51	50	49	48	48
	9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49	49	48	47	46	45	44	44
	10	69	58	52	48	68	58	52	48	57	51	48	56	51	48	55	51	47	46	46	45	44	43	42	41	41

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	46866	46866	46866	46866
5°	46431	46531	46596	46367
10°	45740	45941	46081	45569
15°	43478	43968	43884	42997
20°	39500	40522	40183	38877
25°	34642	36324	35749	33839
30°	28756	31366	30362	27831
35°	22417	25860	24105	21019
40°	14130	17497	15546	12759
45°	6838	9341	7794	5845
50°	2076	3269	2458	1668
55°	278	255	248	210
60°	189	198	198	164
65°	163	163	173	143
70°	138	151	151	101
75°	116	116	116	100
80°	99	99	99	74
85°	49	99	49	49

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 18115 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	8.6
10°-20°	275.8	23.2
20°-30°	348.7	29.4
30°-40°	294.6	24.8
40°-50°	142.2	12.0
50°-60°	21.3	1.8
60°-70°	1.8	0.2
70°-80°	0.8	0.1
80°-90°	0.2	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°	726.3	61.2
0°-40°	1021.0	86.0
0°-60°	1184.5	99.8
0°-90°	1187.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1187.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1088	1088	1088	1088	1088	
5°	1074	1077	1078	1073	1074	102
15°	975	986	984	965	975	272
25°	729	765	752	712	729	332
35°	426	492	459	400	426	261
45°	112	153	128	96	112	91
55°	4	3	3	3	4	7
65°	2	2	2	1	2	2
75°	1	1	1	1	1	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°	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5
0.5°	1088.7	1088.8	1088.7	1088.8	1087.6	1088.3	1089.1	1089.7	1089.0	1088.2	1087.9
1°	1088.0	1088.5	1088.5	1088.8	1087.5	1088.5	1089.2	1089.5	1088.8	1087.3	1086.9
1.5°	1087.0	1087.9	1088.1	1088.5	1087.1	1088.1	1089.1	1089.0	1088.0	1086.2	1085.6
2°	1085.8	1087.1	1087.5	1088.1	1086.1	1087.6	1088.5	1087.9	1086.8	1084.8	1084.0
2.5°	1084.1	1086.1	1086.6	1087.3	1085.1	1086.7	1087.6	1086.8	1085.6	1083.1	1082.2
3°	1082.6	1084.6	1085.2	1086.2	1083.8	1085.5	1086.3	1085.2	1084.1	1081.2	1080.0
3.5°	1080.4	1082.9	1083.5	1084.8	1082.2	1083.9	1084.8	1083.8	1082.6	1079.3	1077.9
4°	1078.1	1080.9	1081.6	1083.0	1080.4	1082.5	1083.0	1082.0	1080.9	1077.3	1075.4
4.5°	1076.0	1078.6	1079.4	1081.1	1078.6	1080.5	1081.2	1080.5	1079.7	1075.3	1073.0
5°	1074.3	1076.4	1076.9	1079.0	1076.6	1078.5	1079.1	1079.0	1078.1	1073.4	1070.6
5.5°	1072.3	1074.3	1074.5	1076.7	1074.8	1076.5	1077.0	1077.3	1076.6	1071.4	1068.4
6°	1070.2	1072.3	1071.6	1074.2	1072.9	1074.5	1074.9	1075.5	1074.9	1069.3	1066.4
6.5°	1068.0	1070.3	1069.1	1071.7	1070.9	1072.5	1072.6	1073.6	1073.5	1067.2	1064.0
7°	1066.0	1068.0	1066.6	1069.4	1068.8	1070.3	1070.5	1071.8	1071.6	1064.8	1061.6
7.5°	1063.2	1065.5	1064.0	1066.9	1066.6	1068.0	1068.3	1069.7	1069.5	1062.2	1059.0
8°	1060.8	1063.1	1061.6	1064.3	1064.1	1065.7	1066.2	1067.6	1067.2	1059.5	1056.5
8.5°	1057.7	1060.4	1058.8	1061.6	1061.5	1062.9	1064.0	1065.2	1064.7	1056.5	1054.0
9°	1054.1	1057.6	1056.1	1058.7	1058.3	1060.1	1061.8	1062.5	1061.7	1053.3	1051.3
9.5°	1050.2	1054.2	1053.5	1055.6	1054.8	1057.3	1059.5	1059.8	1058.0	1049.6	1048.2
10°	1046.2	1050.5	1050.5	1052.4	1050.8	1053.9	1057.1	1056.1	1054.0	1045.4	1045.0
10.5°	1041.9	1046.7	1047.6	1049.0	1046.9	1050.1	1054.6	1052.3	1049.8	1041.2	1042.0
11°	1036.8	1042.8	1044.5	1045.1	1042.3	1046.0	1051.9	1047.9	1044.8	1036.7	1038.5
11.5°	1030.9	1038.3	1041.4	1041.2	1037.4	1041.9	1049.0	1043.7	1039.3	1031.3	1034.5
12°	1024.7	1033.5	1037.7	1036.8	1031.7	1037.5	1045.8	1038.7	1032.9	1025.5	1030.0
12.5°	1017.9	1027.9	1033.9	1032.3	1025.3	1032.3	1042.8	1033.2	1026.0	1019.1	1025.4
13°	1010.3	1021.9	1029.8	1027.2	1018.5	1026.9	1039.0	1027.1	1018.6	1012.0	1020.0
13.5°	1002.1	1015.3	1025.4	1022.1	1011.0	1020.6	1034.9	1020.6	1010.7	1004.6	1014.4
14°	993.7	1008.4	1020.8	1016.2	1003.2	1014.1	1030.3	1013.5	1002.2	996.9	1008.1
14.5°	984.9	1001.0	1015.7	1009.6	995.0	1006.8	1025.4	1005.8	993.5	988.7	1001.6
15°	975.4	992.9	1010.1	1002.4	986.4	999.4	1020.4	998.0	984.5	980.1	994.1
15.5°	965.5	984.7	1004.2	995.2	977.5	991.6	1014.7	989.9	975.0	971.7	986.4
16°	955.3	975.9	997.9	987.6	968.2	983.7	1008.4	981.6	965.3	962.3	977.9
16.5°	944.7	966.8	990.8	979.4	958.7	975.4	1001.5	972.7	955.3	952.9	968.7
17°	934.1	957.4	983.4	970.9	949.0	966.6	993.9	963.3	944.8	943.0	959.1
17.5°	922.6	947.5	975.4	962.2	938.9	957.7	985.7	953.9	933.6	933.2	949.6
18°	911.5	937.7	966.8	953.4	928.2	948.6	976.9	944.2	922.8	922.6	938.9
18.5°	899.9	927.4	957.8	944.0	917.6	939.1	967.8	934.2	911.7	911.9	928.0
19°	887.9	916.8	948.0	934.5	906.9	929.3	957.9	923.8	900.3	901.1	916.9
19.5°	875.1	906.0	938.2	924.4	895.9	919.4	947.8	913.4	888.7	890.5	906.1
20°	862.1	894.7	927.7	914.6	884.4	909.1	937.4	902.6	877.0	878.8	893.7
20.5°	849.1	883.6	916.8	904.4	872.5	898.7	926.5	891.5	865.1	867.3	881.8
21°	835.6	871.9	905.7	894.0	860.5	887.6	915.2	880.4	852.8	855.9	869.4



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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°	797.5	834.3	870.6	861.2	824.6	853.8	880.3	846.3	816.0	819.6	831.5
23°	784.2	821.6	858.3	849.6	813.3	841.7	867.7	834.5	803.3	807.6	818.1
23.5°	770.3	809.1	845.7	838.1	801.1	829.8	855.5	822.7	790.6	794.7	804.8
24°	756.9	797.0	832.9	826.1	788.9	818.0	842.8	810.7	777.9	781.8	791.4
24.5°	743.1	784.6	820.1	814.1	776.7	806.8	829.9	797.8	765.2	768.8	778.1
25°	729.2	771.7	807.0	802.4	764.6	794.3	816.3	785.1	752.5	755.8	764.8
25.5°	714.9	758.3	793.8	790.7	752.4	781.9	803.1	772.3	738.9	743.6	751.4
26°	700.4	744.8	779.9	778.4	739.7	769.4	790.0	759.5	725.5	730.0	736.3
26.5°	685.8	730.9	766.0	765.6	726.4	756.9	776.7	746.8	711.4	716.4	722.1
27°	671.1	717.4	752.2	753.0	713.2	745.4	763.5	733.3	697.6	702.6	707.3
27.5°	655.9	703.2	737.8	740.4	699.9	732.5	750.3	719.6	683.5	688.8	692.7
28°	640.5	689.5	723.7	727.4	686.4	719.1	735.7	706.1	669.2	675.3	677.5
28.5°	625.0	674.9	708.8	714.5	673.0	705.8	721.6	692.3	654.6	661.4	663.1
29°	609.5	661.0	694.2	700.8	659.1	692.5	706.8	678.1	640.3	647.1	648.4
29.5°	594.0	646.3	679.7	687.2	645.3	679.7	691.8	664.1	625.3	633.4	633.8
30°	578.4	632.3	665.7	674.2	630.9	665.7	676.8	650.0	610.7	619.2	618.4
30.5°	563.9	617.2	651.2	660.5	616.6	652.3	662.7	635.9	596.4	605.0	603.6
31°	549.6	602.6	636.5	647.6	602.7	638.5	648.2	621.7	583.1	590.5	588.0
31.5°	534.1	587.6	621.9	633.8	589.6	625.7	633.3	607.2	568.2	576.6	572.7
32°	520.6	572.9	607.7	620.2	575.2	611.4	618.3	593.3	555.5	563.0	557.0
32.5°	509.1	557.9	592.8	606.0	561.2	598.0	603.2	579.0	541.3	550.1	541.6
33°	495.9	544.2	577.6	592.8	550.2	584.0	587.7	566.0	527.3	536.1	526.2
33.5°	479.5	530.5	562.6	579.3	537.1	571.8	572.8	552.0	511.5	523.6	510.8
34°	463.4	516.1	547.8	566.0	522.8	557.7	557.5	538.4	494.8	510.4	495.9
34.5°	444.9	503.3	532.8	552.6	508.1	543.6	542.3	526.6	477.3	497.1	481.0
35°	426.5	492.2	518.1	539.3	492.0	532.2	527.3	512.2	458.6	482.6	466.2
35.5°	408.4	479.7	502.7	525.6	475.5	521.2	512.7	498.9	439.5	467.1	451.9
36°	390.9	464.2	487.8	515.0	457.3	506.6	498.2	483.8	420.3	450.3	437.7
36.5°	371.6	449.3	473.4	501.7	438.8	493.8	484.1	467.7	400.8	433.5	424.2
37°	354.2	431.6	459.0	488.5	419.4	478.6	469.9	451.0	382.2	416.0	410.9
37.5°	337.0	414.6	445.1	474.9	401.0	463.1	456.3	433.5	364.1	398.2	398.2
38°	319.7	397.8	431.0	459.8	382.1	446.3	443.2	415.7	346.2	380.5	385.6
38.5°	302.5	381.6	417.8	444.0	364.1	429.7	430.5	397.2	329.0	362.7	373.9
39°	284.8	365.2	404.5	427.1	346.4	412.0	418.3	379.5	311.8	345.8	362.7
39.5°	267.8	348.7	391.9	409.8	328.9	394.4	406.1	362.0	294.3	329.5	353.0
40°	251.4	332.2	380.5	392.5	311.3	376.7	394.7	345.2	276.6	313.6	343.0
40.5°	235.1	315.7	370.8	374.4	294.1	359.7	383.9	328.9	259.4	298.1	332.7
41°	219.9	299.3	361.2	357.9	276.8	342.6	374.5	312.8	242.5	282.0	326.1
41.5°	205.1	282.9	351.5	341.3	259.7	326.4	365.1	296.8	226.1	266.3	317.1
42°	190.4	266.8	341.8	324.8	242.8	310.2	354.6	280.9	210.5	250.6	306.3
42.5°	175.8	250.6	332.2	308.3	226.2	294.7	346.7	265.0	195.7	235.1	295.8
43°	161.9	235.5	322.6	292.7	210.7	278.4	340.1	248.9	181.1	220.0	282.1
43.5°	148.6	221.0	312.5	277.0	195.5	262.2	329.8	232.9	167.1	205.3	268.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	112.3	178.5	278.8	230.4	153.4	216.1	297.5	189.6	128.0	164.6	225.6
45.5°	101.0	165.1	266.5	215.6	140.4	201.4	284.6	176.2	115.9	151.5	211.3
46°	90.4	152.0	253.4	201.1	127.9	187.4	271.0	162.8	105.9	138.9	197.4
46.5°	80.3	139.3	240.3	187.4	115.6	174.0	256.7	150.0	95.8	126.9	183.9
47°	70.7	127.0	226.8	173.9	105.4	160.5	241.4	137.6	85.7	115.7	170.9
47.5°	61.5	115.3	213.3	161.1	95.1	147.7	226.5	125.6	75.6	105.8	157.8
48°	53.2	104.0	199.2	148.6	85.0	135.2	212.2	114.1	65.6	95.8	145.7
48.5°	45.9	93.7	185.3	136.3	74.8	123.3	198.4	104.3	57.4	85.8	133.8
49°	39.4	83.4	171.4	124.3	64.6	111.3	184.9	94.5	50.0	75.9	122.3
49.5°	35.1	73.7	158.7	113.0	56.4	101.1	171.8	84.8	43.1	66.0	111.3
50°	31.0	64.6	146.0	102.3	48.8	90.8	159.4	75.0	36.7	57.9	101.7
50.5°	26.8	56.4	134.3	92.1	41.8	80.7	147.5	65.2	31.1	50.1	92.0
51°	22.6	48.6	122.6	82.0	35.4	70.5	136.0	56.7	25.7	43.2	82.3
51.5°	18.5	41.7	111.8	72.7	29.7	61.8	124.3	49.4	21.1	36.4	72.6
52°	15.3	35.5	101.2	64.1	24.5	53.6	113.0	42.1	17.6	30.6	64.5
52.5°	12.4	31.3	91.6	56.0	19.6	45.9	103.2	35.8	14.2	25.1	56.7
53°	9.5	27.1	82.1	48.3	16.4	39.0	93.5	29.6	10.7	20.5	49.6
53.5°	6.6	22.9	73.0	41.4	13.1	32.6	83.6	24.5	7.1	17.0	43.0
54°	4.5	18.7	64.4	34.9	9.8	27.0	73.8	19.6	3.8	13.5	37.1
54.5°	4.0	15.6	56.8	29.7	6.5	21.8	64.1	16.4	3.5	10.1	31.6
55°	3.7	12.6	49.5	24.6	3.4	18.2	56.4	13.0	3.3	6.7	26.7
55.5°	3.3	9.8	43.0	19.4	3.2	14.5	48.7	9.8	3.2	3.5	22.4
56°	2.9	6.9	37.0	14.4	3.0	10.9	41.8	6.4	3.0	3.2	18.6
56.5°	2.8	4.6	32.6	10.4	2.9	7.4	35.4	3.2	2.9	3.0	15.3
57°	2.7	4.2	28.1	6.9	2.8	3.7	29.7	2.9	2.8	2.9	13.3
57.5°	2.6	3.8	23.8	4.1	2.7	3.0	24.5	2.9	2.7	2.8	11.3
58°	2.5	3.4	19.4	3.7	2.6	2.9	20.0	2.8	2.7	2.7	9.3
58.5°	2.4	3.0	15.0	3.3	2.5	2.8	16.1	2.7	2.6	2.6	7.5
59°	2.4	2.6	12.2	2.9	2.4	2.7	13.9	2.6	2.5	2.5	5.5
59.5°	2.3	2.5	9.9	2.5	2.4	2.6	11.7	2.5	2.4	2.5	4.4
60°	2.2	2.4	8.0	2.4	2.3	2.5	9.5	2.4	2.3	2.4	3.7
60.5°	2.1	2.4	6.5	2.4	2.2	2.4	7.4	2.4	2.3	2.3	3.0
61°	2.1	2.3	5.3	2.3	2.1	2.4	5.1	2.3	2.2	2.2	2.6
61.5°	2.0	2.2	4.3	2.2	2.1	2.3	4.2	2.2	2.1	2.2	2.3
62°	2.0	2.2	3.9	2.2	2.0	2.2	3.5	2.2	2.0	2.1	2.2
62.5°	1.9	2.1	3.5	2.1	1.9	2.2	2.9	2.1	2.0	2.0	2.1
63°	1.8	2.0	2.9	2.0	1.9	2.1	2.5	2.0	1.9	2.0	2.0
63.5°	1.8	2.0	2.5	2.0	1.8	2.0	2.3	2.0	1.9	1.9	1.9
64°	1.7	1.9	2.1	1.9	1.8	2.0	2.1	1.9	1.8	1.8	1.9
64.5°	1.7	1.8	2.0	1.9	1.7	1.9	2.1	1.9	1.7	1.8	1.8
65°	1.6	1.8	2.0	1.8	1.6	1.8	2.0	1.8	1.7	1.7	1.8
65.5°	1.6	1.7	1.9	1.7	1.6	1.8	1.9	1.7	1.6	1.7	1.7
66°	1.5	1.7	1.8	1.7	1.5	1.7	1.9	1.7	1.6	1.6	1.7



TEST NUMBER: P775793

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.4	1.5	1.7	1.5	1.4	1.6	1.7	1.5	1.4	1.5	1.5
68°	1.3	1.5	1.6	1.5	1.3	1.5	1.6	1.5	1.4	1.4	1.4
68.5°	1.3	1.4	1.6	1.4	1.3	1.4	1.6	1.4	1.3	1.3	1.4
69°	1.2	1.4	1.5	1.4	1.2	1.4	1.5	1.4	1.3	1.3	1.3
69.5°	1.2	1.3	1.5	1.4	1.2	1.3	1.5	1.3	1.2	1.2	1.3
70°	1.1	1.3	1.4	1.3	1.2	1.3	1.4	1.3	1.2	1.2	1.2
70.5°	1.1	1.2	1.4	1.3	1.1	1.3	1.4	1.2	1.1	1.2	1.2
71°	1.1	1.2	1.3	1.2	1.1	1.2	1.3	1.2	1.1	1.1	1.1
71.5°	0.9	1.1	1.3	1.2	0.9	1.2	1.3	1.1	0.9	1.1	1.1
72°	0.9	1.1	1.2	1.1	0.9	1.1	1.2	1.1	0.9	0.9	0.9
72.5°	0.8	0.9	1.2	1.1	0.9	1.1	1.2	1.1	0.9	0.9	0.9
73°	0.8	0.9	1.1	1.1	0.8	0.9	1.1	0.9	0.8	0.8	0.9
73.5°	0.8	0.9	1.1	0.9	0.8	0.9	1.1	0.9	0.8	0.8	0.8
74°	0.7	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.8	0.8	0.8
74.5°	0.7	0.8	0.9	0.8	0.7	0.8	0.9	0.8	0.7	0.7	0.7
75°	0.7	0.7	0.8	0.8	0.7	0.8	0.9	0.8	0.7	0.7	0.7
75.5°	0.6	0.7	0.8	0.8	0.7	0.8	0.8	0.7	0.7	0.7	0.6
76°	0.6	0.7	0.8	0.7	0.7	0.7	0.8	0.7	0.6	0.6	0.6
76.5°	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.7	0.6	0.6	0.6
77°	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.6	0.5
77.5°	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5
78°	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.4
78.5°	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.4
79°	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4
79.5°	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3
80°	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.3
80.5°	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.3	0.3
81°	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
81.5°	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2
82°	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.2	0.2
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
83°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2
84°	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.1
84.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1
85°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
85.5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
86°	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.1
86.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
87°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775793
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775793

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5
0.5°	1087.5	1087.0	1087.5	1088.0	1089.1	1088.7
1°	1086.2	1086.2	1086.6	1086.9	1088.2	1088.0
1.5°	1085.0	1085.1	1085.3	1085.6	1087.4	1087.0
2°	1083.4	1083.7	1083.6	1084.0	1086.2	1085.8
2.5°	1081.6	1082.0	1081.9	1082.0	1084.3	1084.1
3°	1079.6	1080.2	1079.9	1079.9	1082.7	1082.6
3.5°	1077.7	1078.1	1077.6	1077.6	1080.4	1080.4
4°	1075.7	1076.5	1075.4	1075.1	1077.9	1078.1
4.5°	1073.8	1074.7	1073.2	1072.2	1075.5	1076.0
5°	1071.7	1072.8	1071.1	1069.2	1073.1	1074.3
5.5°	1069.4	1071.0	1068.8	1066.5	1070.8	1072.3
6°	1066.9	1069.0	1066.4	1063.9	1068.5	1070.2
6.5°	1064.5	1066.8	1063.9	1061.3	1066.0	1068.0
7°	1061.7	1064.4	1061.2	1058.8	1063.3	1066.0
7.5°	1058.7	1061.8	1058.2	1056.1	1060.5	1063.2
8°	1055.5	1058.8	1054.9	1053.2	1057.7	1060.8
8.5°	1051.8	1055.4	1051.5	1050.2	1054.5	1057.7
9°	1047.6	1051.2	1047.7	1047.1	1051.2	1054.1
9.5°	1043.3	1046.9	1043.6	1044.0	1047.4	1050.2
10°	1038.5	1042.3	1039.1	1040.6	1043.6	1046.2
10.5°	1033.1	1036.8	1034.0	1037.0	1039.5	1041.9
11°	1027.4	1031.0	1028.8	1033.2	1035.1	1036.8
11.5°	1021.3	1024.4	1023.1	1029.0	1030.4	1030.9
12°	1014.7	1017.2	1016.7	1024.5	1025.1	1024.7
12.5°	1007.6	1009.6	1009.9	1019.4	1019.1	1017.9
13°	1000.0	1001.7	1002.4	1014.3	1012.8	1010.3
13.5°	992.0	993.1	994.8	1008.7	1006.1	1002.1
14°	983.7	983.9	986.7	1002.7	998.8	993.7
14.5°	975.2	974.5	978.2	996.2	991.2	984.9
15°	966.2	964.6	969.1	989.0	982.8	975.4
15.5°	957.0	954.4	959.7	981.3	974.2	965.5
16°	947.2	943.9	950.0	973.0	965.1	955.3
16.5°	937.2	932.8	940.0	964.3	955.8	944.7
17°	927.0	921.7	930.1	955.2	946.2	934.1
17.5°	916.6	910.2	919.5	945.2	936.0	922.6
18°	905.7	898.8	908.4	935.1	925.7	911.5
18.5°	895.3	886.6	897.3	924.5	915.1	899.9
19°	883.9	874.1	886.2	913.5	904.2	887.9
19.5°	872.5	861.4	874.6	902.0	893.1	875.1
20°	860.3	848.5	863.0	890.3	881.7	862.1
20.5°	848.6	835.0	850.3	877.3	870.1	849.1
21°	836.2	822.0	838.1	865.4	857.8	835.6



TEST NUMBER: P775793

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	798.8	782.4	799.4	825.9	819.3	797.5
23°	786.3	768.9	786.8	813.2	806.0	784.2
23.5°	773.7	755.2	774.2	799.2	793.3	770.3
24°	761.1	741.0	760.5	785.2	781.0	756.9
24.5°	748.5	726.7	746.7	770.5	768.3	743.1
25°	734.5	712.3	732.9	756.9	754.4	729.2
25.5°	720.2	697.8	718.8	742.2	740.7	714.9
26°	706.1	682.7	704.6	727.2	726.6	700.4
26.5°	691.9	668.0	690.4	711.2	713.0	685.8
27°	677.3	652.6	676.2	696.8	698.3	671.1
27.5°	662.5	637.1	661.2	681.5	684.0	655.9
28°	647.8	621.4	646.4	665.8	669.2	640.5
28.5°	632.8	605.7	631.7	650.7	654.6	625.0
29°	617.5	589.8	616.6	635.8	639.7	609.5
29.5°	602.2	574.5	601.5	621.3	625.3	594.0
30°	587.0	559.8	586.1	606.5	610.1	578.4
30.5°	571.9	545.5	571.0	591.5	595.1	563.9
31°	556.8	530.0	556.0	576.0	579.8	549.6
31.5°	542.8	516.7	541.1	560.4	565.0	534.1
32°	528.7	504.6	527.2	544.7	549.9	520.6
32.5°	514.0	488.8	513.3	529.2	535.0	509.1
33°	501.2	473.6	498.3	513.9	521.4	495.9
33.5°	489.3	455.2	486.4	498.1	507.3	479.5
34°	474.1	436.3	474.2	482.6	492.9	463.4
34.5°	460.0	418.0	458.5	467.1	481.2	444.9
35°	442.7	399.9	443.7	452.0	469.6	426.5
35.5°	425.2	382.8	426.1	437.2	455.0	408.4
36°	408.0	364.9	408.7	423.0	440.8	390.9
36.5°	391.2	347.0	392.0	408.7	424.3	371.6
37°	374.5	329.0	374.9	395.3	407.2	354.2
37.5°	358.1	311.2	358.8	382.3	389.8	337.0
38°	341.7	293.2	342.5	371.0	371.5	319.7
38.5°	324.9	275.7	326.3	359.8	356.2	302.5
39°	307.9	258.6	310.1	348.6	340.9	284.8
39.5°	291.0	242.5	293.7	337.3	325.7	267.8
40°	274.3	227.0	276.9	326.1	310.3	251.4
40.5°	258.5	212.0	261.0	316.7	294.0	235.1
41°	243.0	196.9	245.1	308.7	277.8	219.9
41.5°	228.1	182.4	230.5	299.7	261.6	205.1
42°	213.5	167.8	216.0	291.5	246.2	190.4
42.5°	199.2	154.9	202.4	282.9	231.5	175.8
43°	185.3	142.0	188.6	269.8	217.3	161.9
43.5°	171.8	129.7	175.1	257.4	203.3	148.6



TEST NUMBER: P775793

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	133.5	96.0	136.9	215.9	163.6	112.3
45.5°	121.5	85.7	125.1	203.3	150.8	101.0
46°	110.2	75.9	113.9	190.7	138.6	90.4
46.5°	100.1	66.5	103.3	178.2	126.8	80.3
47°	90.0	57.9	93.2	165.7	115.5	70.7
47.5°	80.0	49.9	83.1	154.3	104.8	61.5
48°	69.9	43.0	73.8	142.5	94.4	53.2
48.5°	61.2	36.9	65.2	131.3	84.3	45.9
49°	53.0	32.9	57.0	120.6	75.2	39.4
49.5°	45.6	28.9	49.6	110.3	66.3	35.1
50°	39.2	24.9	42.6	100.4	57.9	31.0
50.5°	33.5	20.9	36.4	91.2	50.0	26.8
51°	28.6	17.0	32.3	82.5	43.3	22.6
51.5°	24.3	14.0	28.3	74.4	37.2	18.5
52°	20.6	11.0	24.2	66.6	33.0	15.3
52.5°	17.3	8.2	20.0	59.4	28.8	12.4
53°	14.6	5.5	16.0	52.5	24.7	9.5
53.5°	11.9	3.6	12.9	46.1	20.5	6.6
54°	9.1	3.3	10.0	40.2	16.4	4.5
54.5°	6.4	3.0	7.2	34.9	13.3	4.0
55°	3.8	2.8	4.7	29.9	10.4	3.7
55.5°	2.8	2.6	4.2	26.4	7.6	3.3
56°	2.7	2.5	3.8	22.8	5.0	2.9
56.5°	2.6	2.4	3.3	19.3	3.3	2.8
57°	2.5	2.3	2.7	15.8	3.0	2.7
57.5°	2.4	2.2	2.2	12.2	2.9	2.6
58°	2.3	2.2	2.2	9.8	2.7	2.5
58.5°	2.3	2.1	2.1	7.8	2.5	2.4
59°	2.2	2.0	2.1	6.2	2.4	2.4
59.5°	2.1	2.0	2.0	5.0	2.4	2.3
60°	2.1	1.9	1.9	4.0	2.3	2.2
60.5°	2.0	1.8	1.9	3.6	2.2	2.1
61°	1.9	1.8	1.8	3.0	2.2	2.1
61.5°	1.9	1.7	1.8	2.5	2.1	2.0
62°	1.8	1.7	1.7	2.0	2.0	2.0
62.5°	1.8	1.6	1.7	1.9	2.0	1.9
63°	1.7	1.6	1.6	1.9	1.9	1.8
63.5°	1.6	1.5	1.6	1.8	1.9	1.8
64°	1.6	1.5	1.5	1.8	1.8	1.7
64.5°	1.5	1.4	1.5	1.7	1.7	1.7
65°	1.5	1.4	1.4	1.7	1.7	1.6
65.5°	1.4	1.3	1.4	1.6	1.6	1.6
66°	1.4	1.3	1.3	1.6	1.6	1.5



TEST NUMBER: P775793

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.3	1.1	1.2	1.4	1.4	1.4
68°	1.2	1.1	1.2	1.4	1.4	1.3
68.5°	1.2	1.1	1.1	1.3	1.3	1.3
69°	1.1	0.9	1.1	1.3	1.3	1.2
69.5°	1.1	0.9	1.1	1.2	1.3	1.2
70°	0.9	0.8	0.9	1.2	1.2	1.1
70.5°	0.9	0.8	0.9	1.2	1.2	1.1
71°	0.9	0.8	0.8	1.1	1.1	1.1
71.5°	0.8	0.7	0.8	1.1	1.1	0.9
72°	0.8	0.7	0.8	0.9	0.9	0.9
72.5°	0.7	0.7	0.7	0.9	0.9	0.8
73°	0.7	0.7	0.7	0.8	0.9	0.8
73.5°	0.7	0.6	0.7	0.8	0.8	0.8
74°	0.6	0.6	0.7	0.8	0.8	0.7
74.5°	0.6	0.6	0.6	0.7	0.8	0.7
75°	0.6	0.6	0.6	0.7	0.7	0.7
75.5°	0.6	0.5	0.6	0.6	0.7	0.6
76°	0.5	0.5	0.5	0.6	0.6	0.6
76.5°	0.5	0.5	0.5	0.6	0.6	0.6
77°	0.5	0.5	0.5	0.5	0.6	0.6
77.5°	0.4	0.4	0.5	0.5	0.5	0.5
78°	0.4	0.4	0.4	0.5	0.5	0.5
78.5°	0.4	0.4	0.4	0.4	0.5	0.5
79°	0.4	0.4	0.4	0.4	0.5	0.4
79.5°	0.3	0.3	0.4	0.4	0.4	0.4
80°	0.3	0.3	0.3	0.3	0.4	0.4
80.5°	0.3	0.3	0.3	0.3	0.4	0.4
81°	0.3	0.3	0.3	0.3	0.3	0.3
81.5°	0.2	0.3	0.3	0.3	0.3	0.3
82°	0.2	0.2	0.2	0.2	0.3	0.3
82.5°	0.2	0.2	0.2	0.2	0.2	0.3
83°	0.2	0.2	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.2	0.2	0.2	0.2
84°	0.1	0.2	0.2	0.1	0.2	0.2
84.5°	0.1	0.1	0.1	0.1	0.1	0.2
85°	0.1	0.1	0.1	0.1	0.1	0.1
85.5°	0.1	0.1	0.1	0.1	0.1	0.1
86°	0.1	0.1	0.1	0.1	0.1	0.1
86.5°	0.0	0.1	0.1	0.1	0.1	0.1
87°	0.0	0.0	0.0	0.0	0.0	0.1
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: P775793

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-4000K

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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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





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

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21.5°	822.7	859.6	894.2	883.4	848.5	876.4	903.9	869.3	840.8	844.4	857.4
22°	810.1	847.1	882.4	872.4	836.4	865.2	892.3	858.0	829.0	831.7	844.4



44°	135.8	206.8	304.1	261.5	180.7	246.5	320.5	217.9	153.6	191.2	254.2
44.5°	123.7	192.4	291.5	245.8	167.1	231.5	309.7	203.6	140.5	177.7	239.9



66.5°	1.5	1.6	1.8	1.6	1.5	1.7	1.8	1.6	1.5	1.6	1.6
67°	1.4	1.6	1.7	1.6	1.4	1.6	1.8	1.6	1.5	1.5	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°	823.7	809.3	825.2	852.7	845.2	822.7
22°	811.4	796.3	812.6	839.8	832.0	810.1



44°	158.6	117.6	161.6	243.8	190.1	135.8
44.5°	145.5	106.7	149.1	229.9	176.6	123.7



66.5°	1.4	1.2	1.3	1.5	1.5	1.5
67°	1.3	1.2	1.3	1.5	1.5	1.4

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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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Scaled Data Report



(END OF REPORT)