

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: P776211

Luminaire Tested: HCDJBL51525CSD-HCD8TSQH-HCD8TSQLWW-2500lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B027)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD8TSQH-HCD8TSQLWW-2500lm-3000K
Description: 8 INCH SQUARE MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2209.2 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.3
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')

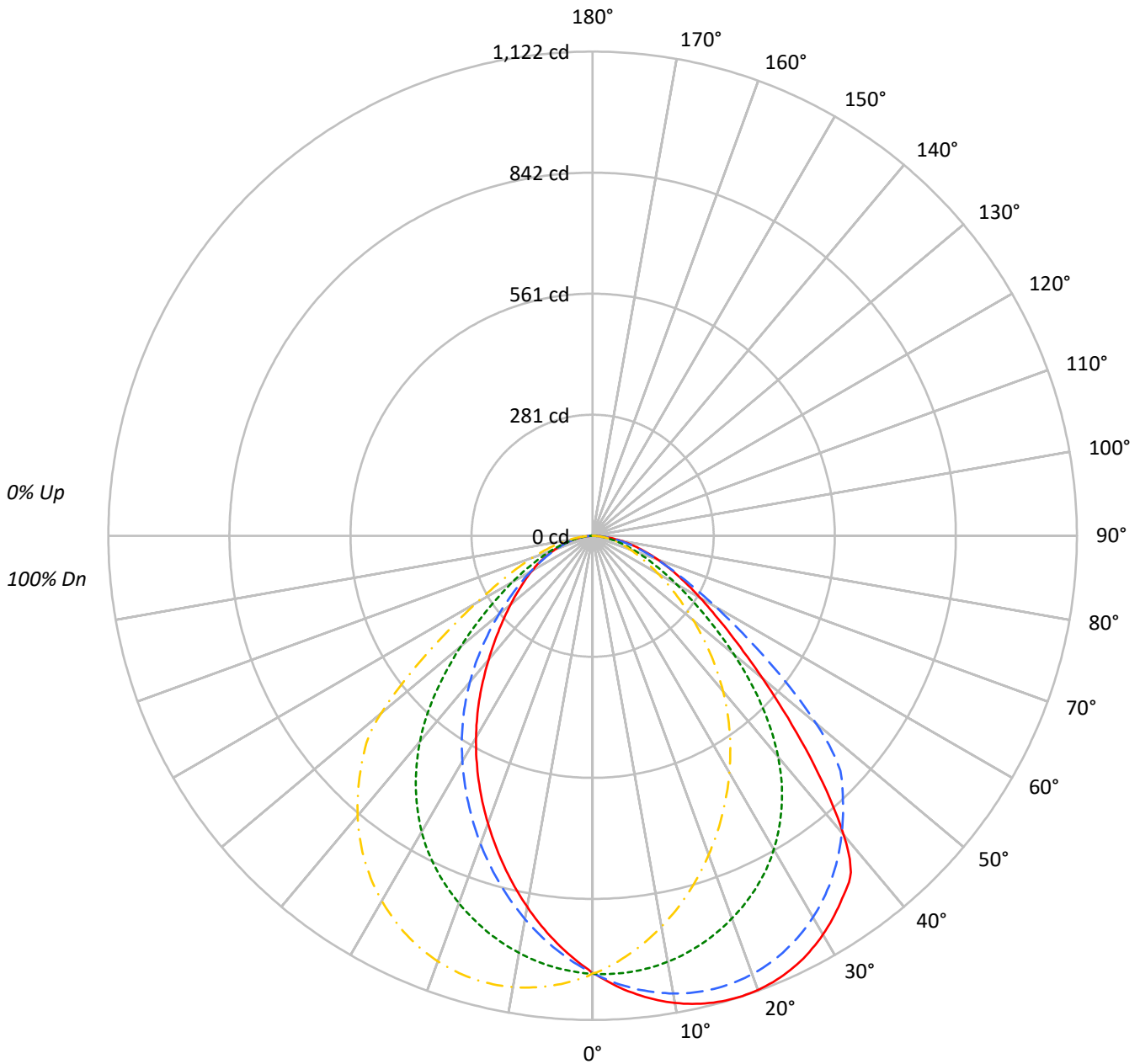
CIE Type: Direct
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776211

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-HCD8TSQLWW-2500lm-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P776211

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					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			
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87					87			
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75					75			
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65					65			
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57					57			
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	56	48	43	67	56	48	42	54	47	42	53	46	42	51	46	42	40					40			
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	24309	24309	24309	24309
5°	25591	24419	22809	24164
10°	26764	24407	21256	23895
15°	27766	24291	19673	23548
20°	28577	24081	18099	23116
25°	29188	23772	16533	22616
30°	29546	23244	14957	21923
35°	29711	22355	13334	20900
40°	28331	20922	11722	19482
45°	23670	18739	10356	17423
50°	19193	15951	9248	14858
55°	15907	13089	8403	12345
60°	13783	10738	7769	10292
65°	12340	8965	7160	8670
70°	11231	7565	6471	7340
75°	10228	6355	5883	6198
80°	9169	5247	5151	5082
85°	7483	4072	3329	3742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 27746 cd/sqm



TEST NUMBER: P776211

CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQH-HCD8TSQLWW-2500lm-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	4.3
10°-20°	270.4	12.2
20°-30°	400.0	18.1
30°-40°	461.0	20.9
40°-50°	419.7	19.0
50°-60°	287.4	13.0
60°-70°	168.7	7.6
70°-80°	85.1	3.9
80°-90°	21.3	1.0
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°	766.0	34.7
0°-40°	1227.0	55.5
0°-60°	1934.1	87.5
0°-90°	2209.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2209.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1014	1014	1014	1014	1014	
5°	1063	1014	948	1004	1063	103
15°	1118	978	792	949	1118	317
25°	1103	898	625	855	1103	508
35°	1015	764	456	714	1015	631
45°	698	553	305	514	698	539
55°	380	313	201	295	380	345
65°	218	158	126	153	218	217
75°	110	69	64	67	110	118
85°	27	15	12	14	27	32
90°	0	0	0	0	0	



TEST NUMBER: P776211

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8
0.5°	1017.7	1018.0	1018.0	1016.7	1015.5	1013.8	1012.3	1006.4	1006.1	1006.6	1008.8
1°	1023.4	1023.2	1022.2	1019.5	1015.7	1011.8	1008.6	1000.9	999.9	1000.9	1004.1
1.5°	1028.8	1028.6	1026.1	1021.7	1016.2	1009.8	1004.6	995.5	994.0	995.0	999.5
2°	1034.0	1033.8	1030.3	1024.1	1016.2	1007.6	1000.4	989.8	987.6	988.8	994.5
2.5°	1039.5	1038.7	1034.3	1026.4	1016.2	1005.4	996.2	984.1	981.2	982.9	989.6
3°	1044.4	1043.4	1038.2	1028.6	1016.2	1003.2	992.0	978.0	974.8	976.7	984.4
3.5°	1049.3	1048.1	1041.9	1030.6	1016.0	1000.7	987.6	972.0	968.1	970.3	979.2
4°	1054.3	1052.8	1045.4	1032.3	1015.7	998.0	982.9	966.1	961.4	963.9	973.8
4.5°	1058.7	1057.2	1048.6	1034.0	1015.3	995.5	978.5	959.9	954.5	957.2	968.3
5°	1063.2	1061.4	1052.0	1035.7	1014.5	992.5	973.5	953.3	947.6	950.6	962.7
5.5°	1067.6	1065.6	1055.3	1037.2	1013.8	989.8	968.6	947.1	940.4	943.9	957.0
6°	1071.8	1069.6	1058.2	1038.5	1013.0	986.6	963.7	940.4	933.3	937.0	951.3
6.5°	1075.7	1073.3	1060.9	1039.7	1012.0	983.7	958.5	934.0	926.4	930.1	945.6
7°	1079.7	1077.2	1063.6	1040.7	1011.1	980.2	953.3	927.1	918.7	922.9	939.5
7.5°	1083.4	1080.7	1066.4	1041.9	1009.8	977.0	947.9	920.2	911.6	916.0	933.5
8°	1086.9	1084.1	1068.8	1042.7	1008.6	973.5	942.4	913.3	903.9	908.6	927.4
8.5°	1090.1	1087.3	1071.1	1043.4	1007.4	969.8	936.7	906.4	896.2	901.4	921.2
9°	1093.3	1090.3	1073.0	1043.9	1005.9	966.4	931.3	899.5	888.6	893.8	914.8
9.5°	1096.5	1093.3	1075.3	1044.4	1004.1	962.4	925.6	892.3	880.9	886.6	908.6
10°	1099.2	1096.0	1077.0	1044.6	1002.4	958.5	919.7	884.9	873.0	879.0	902.2
10.5°	1101.9	1098.5	1078.7	1044.9	1000.4	954.5	913.8	877.7	865.4	871.3	895.5
11°	1104.6	1100.9	1080.2	1044.9	998.5	950.3	907.6	870.3	857.5	863.9	888.8
11.5°	1106.9	1103.2	1081.7	1044.9	996.5	946.1	901.7	862.9	849.6	856.0	881.9
12°	1109.1	1105.1	1082.9	1044.6	994.3	941.9	895.5	855.5	841.4	848.3	875.3
12.5°	1111.1	1107.1	1083.9	1044.4	992.0	937.5	889.3	847.9	833.5	840.7	868.6
13°	1113.0	1108.8	1084.9	1043.9	989.6	933.0	882.9	840.2	825.4	832.5	861.7
13.5°	1114.5	1110.3	1085.6	1043.2	986.9	928.3	876.5	832.5	817.2	824.6	854.8
14°	1116.0	1111.8	1086.4	1042.4	984.1	923.7	869.8	824.6	809.1	816.7	847.6
14.5°	1117.5	1113.0	1086.9	1041.7	981.4	919.0	863.4	817.0	800.9	808.8	840.4
15°	1118.5	1114.0	1087.1	1040.7	978.5	913.8	856.7	808.8	792.5	800.7	833.3
15.5°	1119.4	1115.0	1087.3	1039.5	975.5	908.8	850.1	801.2	784.4	792.8	826.1
16°	1120.2	1115.7	1087.1	1038.2	972.3	903.7	843.2	793.3	776.0	784.6	819.0
16.5°	1120.9	1116.2	1086.9	1036.7	969.3	898.5	836.3	785.4	767.9	776.7	811.8
17°	1121.2	1116.5	1086.6	1035.3	965.9	893.3	829.3	777.2	759.5	768.4	804.2
17.5°	1121.4	1116.5	1086.1	1033.5	962.4	887.9	822.2	769.3	751.1	760.5	797.0
18°	1121.7	1116.7	1085.4	1031.8	959.0	882.4	815.3	761.4	742.7	751.8	789.6
18.5°	1121.4	1116.5	1084.6	1029.8	955.3	877.0	808.1	753.3	734.3	743.9	781.9
19°	1121.2	1116.0	1083.6	1027.6	951.3	871.3	800.9	745.1	725.9	735.8	774.5
19.5°	1120.7	1115.5	1082.4	1025.4	947.6	865.6	793.8	737.2	717.7	727.6	767.1
20°	1119.9	1114.8	1081.2	1023.2	943.7	860.0	786.6	729.1	709.3	719.2	759.2
20.5°	1119.2	1114.0	1079.7	1020.7	939.7	854.0	779.2	720.9	700.7	710.8	751.6
21°	1118.0	1112.8	1078.0	1018.2	935.5	848.3	771.8	712.6	692.3	702.7	744.2



TEST NUMBER: P776211

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1113.8	1108.3	1072.0	1009.6	922.7	830.1	749.3	688.4	667.1	678.0	720.9
23°	1112.0	1106.6	1069.8	1006.4	918.0	823.9	741.9	680.0	658.7	669.6	713.3
23.5°	1110.1	1104.6	1067.3	1003.2	913.3	817.7	734.5	671.6	650.3	661.4	705.6
24°	1107.8	1102.4	1064.9	999.9	908.6	811.3	726.9	663.4	641.9	653.1	697.7
24.5°	1105.6	1099.9	1061.9	996.5	903.7	804.9	719.2	655.3	633.3	644.9	689.8
25°	1103.2	1097.5	1059.0	992.8	898.5	798.5	711.6	647.1	624.9	636.5	682.2
25.5°	1100.2	1094.8	1055.7	988.8	893.3	791.6	703.9	639.0	616.8	628.1	674.5
26°	1097.2	1091.8	1052.8	985.1	888.1	784.9	696.3	630.6	608.1	620.0	666.4
26.5°	1094.3	1088.6	1049.3	980.9	882.7	778.2	688.6	622.2	599.5	611.6	658.7
27°	1091.1	1085.4	1045.6	977.0	877.0	771.3	680.7	613.8	591.1	603.4	650.8
27.5°	1087.6	1081.9	1041.9	972.5	871.1	764.4	673.1	605.6	582.9	594.8	642.9
28°	1083.6	1078.2	1038.0	967.8	865.1	757.2	665.1	597.5	574.3	586.6	635.0
28.5°	1079.9	1074.3	1034.0	963.2	859.0	750.1	657.5	589.1	565.6	578.2	627.4
29°	1075.7	1070.1	1029.8	958.5	852.8	742.7	649.6	580.7	557.3	569.8	619.2
29.5°	1071.5	1065.9	1025.6	953.5	846.1	735.5	641.7	572.6	548.9	561.5	611.3
30°	1067.1	1061.7	1020.9	948.3	839.5	727.9	633.8	563.9	540.2	553.1	603.4
30.5°	1062.7	1057.0	1016.2	942.9	832.5	720.2	626.1	555.8	531.6	544.7	595.5
31°	1057.7	1052.3	1011.6	937.2	825.6	712.3	618.0	547.1	523.2	536.5	587.6
31.5°	1052.8	1047.4	1006.6	931.6	818.5	704.7	609.8	539.0	514.8	528.1	579.7
32°	1047.8	1042.4	1001.4	925.4	811.1	696.8	601.9	530.6	506.4	519.7	571.8
32.5°	1042.4	1037.0	996.0	919.2	803.4	688.4	593.8	522.2	497.8	511.3	563.9
33°	1037.2	1031.8	990.6	913.0	795.8	680.2	585.9	513.6	489.6	502.9	556.0
33.5°	1031.8	1026.1	984.9	906.4	788.1	672.1	577.7	505.7	481.0	494.8	548.1
34°	1026.1	1020.7	979.5	899.7	780.0	663.9	569.6	497.0	472.3	486.4	539.7
34.5°	1020.4	1014.8	973.3	892.8	771.8	655.5	561.5	488.6	463.9	478.0	531.8
35°	1015.0	1008.8	967.4	885.6	763.7	647.1	553.3	480.2	455.5	469.9	523.9
35.5°	1009.6	1002.9	960.9	878.0	755.0	638.5	544.9	472.1	447.1	461.5	515.8
36°	1004.4	996.7	954.8	870.6	746.4	630.3	536.8	463.7	438.7	453.1	507.6
36.5°	998.5	990.8	948.3	862.7	737.2	621.7	528.6	455.0	430.3	444.7	499.5
37°	991.6	984.9	941.4	854.8	728.4	612.8	520.2	446.6	422.2	436.3	491.3
37.5°	982.9	979.0	934.8	846.9	719.0	603.9	511.6	438.5	414.1	428.1	483.2
38°	970.3	973.3	927.6	838.5	709.1	595.3	503.4	430.1	405.9	420.0	475.0
38.5°	957.2	966.6	920.4	829.8	699.5	586.4	495.0	421.7	398.0	411.6	466.9
39°	941.4	959.2	913.3	820.7	689.3	577.5	486.6	413.6	390.1	403.7	458.7
39.5°	923.9	948.6	905.9	811.8	679.2	568.4	478.2	405.4	382.2	395.5	450.3
40°	905.1	937.0	898.2	802.4	668.4	559.2	469.9	397.3	374.5	387.6	442.2
40.5°	884.6	922.2	890.8	792.5	657.7	550.3	461.5	389.1	367.1	379.7	434.1
41°	865.1	906.9	882.9	782.2	646.9	541.0	452.8	381.5	359.7	372.3	425.7
41.5°	843.9	887.6	875.0	771.8	635.8	531.8	444.4	373.6	352.6	364.4	417.3
42°	823.7	870.1	866.9	760.7	624.4	522.4	436.0	365.9	345.4	357.0	409.1
42.5°	802.4	849.8	858.7	749.3	612.8	513.3	427.6	358.3	338.5	349.6	401.0
43°	781.4	831.1	850.8	737.5	601.2	503.9	419.2	350.8	331.6	342.5	392.8
43.5°	760.0	810.1	842.4	726.1	589.4	494.3	410.8	343.2	324.7	335.0	384.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	698.0	749.1	818.2	687.4	552.6	466.1	385.7	322.0	305.4	314.6	360.2
45.5°	676.5	728.1	810.1	674.3	540.2	456.5	377.3	315.0	299.0	307.9	352.3
46°	657.7	708.4	800.7	660.7	527.9	447.1	368.9	308.1	293.1	301.2	344.2
46.5°	636.8	687.1	791.1	646.6	515.3	437.5	360.7	301.5	286.9	294.8	336.3
47°	619.2	668.4	777.2	632.3	502.7	428.1	352.3	295.0	281.0	288.6	328.6
47.5°	598.5	647.6	764.2	617.5	489.9	418.5	344.2	288.9	275.3	282.5	321.0
48°	582.2	629.6	747.4	602.4	477.8	409.1	336.0	282.2	269.6	276.5	313.6
48.5°	562.7	608.9	731.6	587.4	464.9	399.7	327.9	276.0	263.9	270.6	305.9
49°	547.4	592.1	712.6	572.3	452.3	390.3	320.0	270.1	258.5	264.7	298.5
49.5°	528.9	572.6	694.8	557.0	440.0	381.0	312.1	264.2	253.3	259.0	291.3
50°	514.5	556.5	674.5	541.7	427.6	371.6	304.2	258.3	247.9	253.3	284.2
50.5°	497.3	538.5	655.0	525.9	414.8	362.2	296.5	252.6	242.7	247.9	277.0
51°	483.9	522.4	634.8	510.1	402.9	353.1	289.1	246.9	238.0	242.7	270.1
51.5°	467.9	505.7	615.3	494.5	390.8	344.2	281.7	241.2	233.1	237.3	263.4
52°	455.0	490.8	594.5	479.2	379.0	335.0	274.3	236.0	228.1	232.1	256.8
52.5°	440.7	475.5	575.5	463.9	367.1	325.9	267.1	230.6	223.2	227.1	250.1
53°	428.6	461.0	555.5	448.4	356.0	317.0	260.2	225.4	218.5	222.0	243.7
53.5°	415.3	446.6	536.8	433.1	344.7	308.4	253.3	220.2	214.1	217.3	237.3
54°	403.4	432.6	517.3	418.0	333.8	299.7	246.4	215.5	209.6	212.6	231.3
54.5°	391.6	419.7	499.0	403.4	322.9	291.1	239.7	210.9	205.4	208.1	225.2
55°	380.5	406.2	481.2	388.9	313.1	282.7	233.3	205.9	201.0	203.4	219.2
55.5°	369.9	395.5	463.2	375.0	302.7	274.3	226.9	201.2	196.8	199.0	213.3
56°	359.0	382.0	446.6	361.5	292.8	266.2	220.5	196.5	192.3	194.6	207.9
56.5°	349.6	372.3	429.6	348.4	283.2	258.3	214.6	191.8	188.6	190.1	202.5
57°	338.7	359.7	414.3	335.5	274.1	250.4	208.6	187.9	184.7	185.9	197.0
57.5°	330.6	350.8	398.0	323.4	264.9	242.7	203.0	183.7	180.7	181.7	191.6
58°	320.5	339.2	383.4	311.3	256.3	235.3	197.0	179.5	176.8	177.5	186.2
58.5°	313.1	330.1	369.1	300.2	247.9	227.9	191.3	175.3	172.8	173.6	181.0
59°	303.2	320.0	355.0	289.4	239.5	220.7	185.4	171.1	169.1	169.6	175.8
59.5°	296.5	311.1	342.2	279.0	231.6	214.1	180.0	167.2	165.4	165.7	170.9
60°	287.4	301.7	328.9	268.9	223.9	207.4	174.6	163.2	162.0	162.0	165.9
60.5°	280.0	292.3	317.5	259.2	216.3	200.7	169.6	159.3	158.3	158.3	161.2
61°	272.1	284.4	304.7	249.9	209.4	194.1	164.4	155.3	154.8	154.6	156.5
61.5°	264.7	275.0	294.3	241.2	202.5	187.4	159.3	151.6	151.3	151.1	152.1
62°	257.5	267.9	283.2	232.8	195.3	181.0	154.6	148.1	147.9	147.4	147.4
62.5°	250.4	259.5	272.3	224.7	188.4	175.1	149.9	144.4	144.2	143.9	143.2
63°	243.4	252.1	262.9	216.8	182.2	168.9	145.2	141.0	140.5	140.5	139.0
63.5°	236.8	244.4	253.1	209.4	175.8	163.2	140.5	137.5	137.0	137.0	134.8
64°	230.4	236.8	244.2	201.7	169.9	157.5	136.0	134.1	133.3	133.6	130.9
64.5°	223.7	230.1	235.3	194.8	163.9	152.1	131.8	130.6	129.6	129.9	126.9
65°	217.5	223.0	226.4	188.1	158.0	146.7	127.6	127.2	126.2	126.4	123.0
65.5°	211.3	216.5	218.8	181.5	152.3	141.5	123.7	123.5	122.7	123.0	119.3
66°	205.2	209.9	210.6	175.1	146.9	136.3	119.7	120.0	119.3	119.7	115.5



TEST NUMBER: P776211

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	187.6	190.6	188.6	157.0	131.4	121.5	108.4	110.1	109.1	109.9	105.2
68°	182.2	184.7	181.7	151.6	126.4	117.0	104.9	106.9	105.7	106.7	102.0
68.5°	176.5	178.8	175.3	146.2	121.7	112.6	101.5	103.9	102.5	103.5	98.5
69°	171.1	173.1	168.6	140.7	117.0	108.1	98.0	100.7	99.0	100.2	95.3
69.5°	165.9	167.4	162.5	135.5	112.3	103.7	94.8	97.5	95.8	97.3	92.3
70°	160.2	161.7	156.5	130.4	107.9	99.5	91.6	94.6	92.3	94.1	89.1
70.5°	155.1	156.0	150.6	125.4	103.5	95.6	88.6	91.6	89.4	91.1	86.2
71°	149.9	150.6	144.9	120.7	99.3	91.8	85.4	88.4	85.9	87.9	83.2
71.5°	144.7	145.4	139.3	116.0	95.1	87.9	82.5	85.4	83.0	84.7	80.2
72°	139.7	140.2	133.8	111.4	91.1	83.9	79.5	82.2	80.0	81.7	77.5
72.5°	134.8	135.1	128.6	106.7	87.2	80.5	76.5	79.3	77.3	78.8	74.8
73°	129.9	130.1	123.5	102.5	83.2	76.8	73.8	76.3	74.6	76.0	72.1
73.5°	124.7	124.9	118.3	98.0	79.5	73.3	71.1	73.6	71.6	73.1	69.4
74°	120.0	120.0	113.3	93.8	75.8	69.9	68.4	70.9	68.9	70.4	66.7
74.5°	115.3	115.1	108.4	89.6	72.3	66.7	65.7	67.9	66.2	67.4	63.9
75°	110.4	110.4	103.7	85.9	68.6	63.5	63.2	65.4	63.5	64.7	61.2
75.5°	105.9	105.7	99.0	82.0	65.2	60.2	60.5	62.5	60.7	62.0	58.8
76°	101.2	101.0	94.6	78.3	62.0	57.3	58.0	59.7	58.0	59.3	56.0
76.5°	96.5	96.3	90.1	74.3	58.8	54.3	55.6	57.0	55.6	56.5	53.3
77°	92.1	91.8	85.9	70.6	55.6	51.4	53.1	54.3	52.8	53.8	51.1
77.5°	87.9	87.4	81.7	66.9	52.3	48.6	50.4	51.6	50.4	51.1	48.4
78°	83.7	83.2	77.5	63.2	49.4	45.9	47.9	48.9	47.7	48.4	45.9
78.5°	79.3	79.0	73.3	59.7	46.4	43.2	45.4	46.4	45.2	45.9	43.5
79°	75.1	74.6	69.1	56.3	43.7	40.7	43.2	43.7	42.5	43.2	41.0
79.5°	70.6	70.4	64.9	52.8	40.7	38.3	40.7	41.0	40.0	40.7	38.5
80°	66.4	66.2	61.0	49.6	38.0	35.8	38.3	38.3	37.3	38.3	36.0
80.5°	62.2	62.0	57.0	46.2	35.3	33.6	36.0	35.6	34.8	35.6	33.6
81°	58.3	58.0	53.3	43.2	32.8	31.4	33.6	32.8	32.3	33.1	31.4
81.5°	54.1	53.8	49.6	40.0	30.4	29.1	31.1	30.1	29.6	30.4	28.9
82°	50.1	50.1	45.9	37.0	27.9	26.9	28.6	27.7	27.2	27.9	26.7
82.5°	46.2	46.2	42.2	34.1	25.4	24.9	26.4	24.9	24.7	25.4	24.2
83°	42.2	42.2	38.8	31.1	23.5	23.0	23.9	22.5	22.0	22.7	22.0
83.5°	38.3	38.5	35.1	28.1	21.2	21.0	21.7	19.8	19.5	20.2	19.8
84°	34.6	34.8	31.6	25.7	19.0	19.0	19.5	17.3	17.0	17.8	17.5
84.5°	30.9	31.1	28.4	23.0	16.8	17.0	17.5	14.8	14.6	15.3	15.6
85°	27.2	27.4	25.2	20.5	14.8	15.1	15.3	12.1	12.1	12.6	13.3
85.5°	23.5	23.7	22.2	17.8	12.6	13.1	13.1	9.9	9.6	10.4	11.4
86°	19.8	20.2	19.3	15.6	10.6	11.4	11.1	7.9	7.7	8.1	9.4
86.5°	16.0	16.8	16.5	13.1	8.9	9.4	9.1	6.2	5.9	6.4	7.4
87°	12.6	13.6	13.6	10.9	7.2	7.4	7.2	4.4	4.4	4.9	5.7
87.5°	10.1	10.9	10.9	8.4	5.4	5.7	5.4	3.0	3.0	3.2	3.7
88°	8.1	8.4	8.4	6.4	3.7	4.0	3.5	1.5	1.5	1.7	2.0
88.5°	6.2	6.4	6.4	4.4	2.2	2.0	1.7	0.5	0.5	0.5	0.5



TEST NUMBER: P776211

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-HCD8TSQLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776211

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8
0.5°	1011.3	1014.5	1017.0	1019.7	1016.7	1017.7
1°	1008.3	1013.8	1018.5	1023.2	1021.7	1023.4
1.5°	1005.4	1012.8	1019.9	1026.4	1026.4	1028.8
2°	1002.2	1012.0	1021.2	1029.6	1031.1	1034.0
2.5°	999.0	1010.8	1022.4	1032.8	1035.7	1039.5
3°	995.5	1009.8	1023.4	1035.5	1040.4	1044.4
3.5°	992.0	1008.3	1024.1	1038.5	1044.6	1049.3
4°	988.6	1007.1	1024.9	1041.2	1048.8	1054.3
4.5°	984.9	1005.6	1025.6	1043.6	1052.8	1058.7
5°	980.9	1003.9	1026.1	1045.9	1056.7	1063.2
5.5°	977.2	1002.2	1026.6	1048.1	1060.2	1067.6
6°	973.3	1000.4	1026.9	1050.3	1063.9	1071.8
6.5°	969.1	998.5	1026.9	1052.3	1067.3	1075.7
7°	964.9	996.2	1026.9	1054.3	1070.6	1079.7
7.5°	960.4	994.3	1026.9	1055.7	1073.8	1083.4
8°	956.0	991.8	1026.6	1057.2	1076.7	1086.9
8.5°	951.6	989.6	1026.4	1058.7	1079.4	1090.1
9°	947.1	986.9	1025.6	1059.9	1082.2	1093.3
9.5°	942.4	984.4	1025.1	1060.9	1084.6	1096.5
10°	937.5	981.4	1024.4	1061.9	1086.9	1099.2
10.5°	932.8	978.7	1023.6	1062.7	1089.1	1101.9
11°	927.9	975.7	1022.7	1063.4	1091.1	1104.6
11.5°	922.7	972.8	1021.4	1063.9	1092.8	1106.9
12°	917.5	969.6	1020.2	1064.4	1094.5	1109.1
12.5°	912.3	966.4	1019.0	1064.6	1096.0	1111.1
13°	907.1	962.9	1017.2	1064.6	1097.2	1113.0
13.5°	901.7	959.5	1015.7	1064.4	1098.5	1114.5
14°	896.2	956.0	1014.0	1064.1	1099.4	1116.0
14.5°	890.6	952.3	1012.0	1063.9	1100.2	1117.5
15°	884.9	948.6	1010.1	1063.2	1100.7	1118.5
15.5°	879.2	944.6	1007.8	1062.4	1101.2	1119.4
16°	873.5	940.7	1005.6	1061.7	1101.7	1120.2
16.5°	867.6	936.7	1003.4	1060.7	1101.7	1120.9
17°	861.7	932.5	1000.9	1059.4	1101.7	1121.2
17.5°	855.5	928.3	998.2	1058.2	1101.4	1121.4
18°	849.6	923.9	995.5	1056.7	1100.9	1121.7
18.5°	843.4	919.5	992.8	1055.0	1100.4	1121.4
19°	837.2	915.0	989.8	1053.3	1099.7	1121.2
19.5°	831.1	910.6	986.6	1051.3	1098.7	1120.7
20°	824.6	905.9	983.7	1049.3	1097.5	1119.9
20.5°	818.2	901.2	980.2	1047.1	1096.2	1119.2
21°	811.8	896.2	976.7	1044.4	1094.8	1118.0

TEST NUMBER: P776211

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	792.3	881.4	965.9	1036.5	1089.3	1113.8
23°	785.6	876.2	962.2	1033.5	1087.1	1112.0
23.5°	779.0	871.1	958.2	1030.3	1084.9	1110.1
24°	772.3	865.9	954.3	1027.1	1082.4	1107.8
24.5°	765.4	860.4	950.1	1023.6	1079.7	1105.6
25°	758.7	854.8	945.9	1020.2	1076.7	1103.2
25.5°	751.8	849.1	941.4	1016.5	1073.5	1100.2
26°	744.9	843.4	937.0	1012.5	1070.6	1097.2
26.5°	737.7	837.5	932.3	1008.6	1067.1	1094.3
27°	730.8	831.6	927.6	1004.4	1063.4	1091.1
27.5°	723.7	825.4	922.7	1000.2	1059.7	1087.6
28°	716.5	819.0	917.5	995.7	1055.7	1083.6
28.5°	708.9	812.5	912.3	991.3	1051.5	1079.9
29°	701.7	805.9	906.9	986.6	1047.4	1075.7
29.5°	694.0	799.0	901.4	981.9	1042.7	1071.5
30°	686.4	791.8	895.5	977.0	1038.2	1067.1
30.5°	678.7	784.6	889.3	972.0	1033.5	1062.7
31°	670.8	777.5	883.4	966.6	1028.6	1057.7
31.5°	663.2	769.8	877.0	961.4	1023.4	1052.8
32°	655.3	762.2	870.3	956.0	1018.2	1047.8
32.5°	647.1	754.5	863.4	950.3	1012.8	1042.4
33°	639.2	746.6	856.5	944.6	1007.1	1037.2
33.5°	630.8	738.7	849.3	938.5	1001.4	1031.8
34°	622.4	730.3	841.9	932.5	995.7	1026.1
34.5°	614.3	722.4	834.3	926.4	989.8	1020.4
35°	606.4	714.0	826.6	920.0	983.7	1015.0
35.5°	597.7	705.6	818.7	913.5	977.5	1009.6
36°	589.4	696.8	810.8	906.9	971.3	1004.4
36.5°	581.0	688.1	802.4	900.0	964.9	998.5
37°	572.8	679.2	794.0	892.8	958.5	991.6
37.5°	564.2	670.1	785.4	885.6	952.0	982.9
38°	555.8	660.7	776.5	878.2	945.9	970.3
38.5°	547.1	651.3	767.4	870.6	939.7	957.2
39°	539.0	641.9	758.2	862.9	933.8	941.4
39.5°	529.8	632.6	748.4	855.0	926.6	923.9
40°	521.5	622.4	738.7	846.9	919.2	905.1
40.5°	512.8	612.3	728.6	838.7	907.6	884.6
41°	504.2	602.2	718.0	830.6	896.2	865.1
41.5°	495.5	591.8	707.1	821.9	881.4	843.9
42°	486.9	581.2	696.3	813.3	866.1	823.7
42.5°	478.2	570.3	684.9	804.6	848.1	802.4
43°	469.6	559.2	673.1	796.0	831.3	781.4
43.5°	460.7	548.1	660.7	786.9	812.1	760.0



TEST NUMBER: P776211

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	434.3	513.8	621.4	759.0	755.5	698.0
45.5°	425.2	501.9	607.9	749.3	735.8	676.5
46°	416.3	490.6	593.5	740.2	716.8	657.7
46.5°	407.4	479.0	579.5	730.3	697.2	636.8
47°	398.5	467.1	564.9	720.9	678.5	619.2
47.5°	389.9	455.5	550.6	710.3	658.7	598.5
48°	380.7	443.9	536.0	699.5	640.5	582.2
48.5°	372.1	432.3	521.2	687.4	621.4	562.7
49°	363.2	421.0	506.6	671.8	603.9	547.4
49.5°	354.5	409.9	492.3	657.0	585.6	528.9
50°	345.9	398.3	477.8	639.5	569.1	514.5
50.5°	337.0	387.1	463.2	621.7	551.1	497.3
51°	328.6	376.0	448.6	603.2	534.8	483.9
51.5°	320.0	365.4	434.5	583.9	518.5	467.9
52°	311.6	354.5	420.7	564.4	503.4	455.0
52.5°	303.2	344.2	407.1	546.1	487.4	440.7
53°	294.8	334.1	393.3	527.1	472.1	428.6
53.5°	286.9	324.2	380.2	508.6	458.2	415.3
54°	278.8	314.1	367.6	490.1	443.7	403.4
54.5°	270.8	304.7	355.3	472.6	430.6	391.6
55°	262.9	295.3	343.4	455.5	416.0	380.5
55.5°	255.3	286.4	331.6	438.2	404.4	369.9
56°	247.6	277.5	320.2	422.2	390.6	359.0
56.5°	240.5	268.9	309.6	406.2	380.0	349.6
57°	233.1	260.2	299.0	391.1	366.6	338.7
57.5°	225.9	252.1	288.9	376.3	356.8	330.6
58°	219.0	244.2	279.0	362.2	344.7	320.5
58.5°	212.6	236.5	269.9	348.6	335.0	313.1
59°	206.2	229.1	261.0	335.0	324.4	303.2
59.5°	199.7	221.7	252.3	323.2	314.6	296.5
60°	193.3	214.6	243.7	310.8	305.2	287.4
60.5°	186.7	207.4	235.8	299.2	295.8	280.0
61°	180.5	200.7	227.9	287.9	287.4	272.1
61.5°	174.8	194.3	220.5	277.3	278.0	264.7
62°	168.9	187.9	213.3	267.1	270.6	257.5
62.5°	163.2	181.5	206.4	257.5	262.0	250.4
63°	157.5	175.5	199.2	248.1	254.3	243.4
63.5°	152.3	169.6	192.8	239.2	246.7	236.8
64°	147.2	163.7	186.4	230.1	238.8	230.4
64.5°	142.0	158.0	180.2	222.2	231.8	223.7
65°	136.8	152.8	174.1	214.1	224.4	217.5
65.5°	131.8	147.2	168.1	206.7	218.0	211.3
66°	127.2	142.0	162.5	199.0	211.1	205.2



TEST NUMBER: P776211

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	113.6	126.9	146.2	178.8	191.6	187.6
68°	109.4	122.5	140.7	171.8	185.7	182.2
68.5°	105.2	117.8	135.8	165.9	179.7	176.5
69°	101.2	113.3	130.9	159.7	173.6	171.1
69.5°	97.0	108.9	126.2	153.8	167.9	165.9
70°	93.3	104.7	121.5	148.1	162.2	160.2
70.5°	89.4	100.2	116.8	142.5	156.5	155.1
71°	85.7	96.3	112.1	137.0	151.3	149.9
71.5°	82.2	92.1	107.9	131.6	145.9	144.7
72°	78.8	88.6	103.5	126.4	140.5	139.7
72.5°	75.3	84.9	99.3	121.5	135.3	134.8
73°	71.8	81.2	95.1	116.3	130.1	129.9
73.5°	68.6	77.5	90.9	111.6	125.2	124.7
74°	65.4	73.8	87.2	106.9	120.2	120.0
74.5°	62.5	70.4	83.5	102.0	115.3	115.3
75°	59.5	66.9	79.7	97.5	110.4	110.4
75.5°	56.5	63.5	75.8	93.1	105.7	105.9
76°	53.6	60.2	72.1	87.9	101.2	101.2
76.5°	50.9	57.0	68.4	83.9	96.5	96.5
77°	48.4	54.1	64.9	80.0	91.8	92.1
77.5°	45.9	50.9	61.5	76.0	87.4	87.9
78°	43.2	47.9	58.0	71.8	83.2	83.7
78.5°	40.7	45.2	54.8	67.9	79.0	79.3
79°	38.5	42.2	51.4	63.9	74.8	75.1
79.5°	36.3	39.5	48.1	60.0	70.4	70.6
80°	34.1	36.8	44.9	56.0	66.2	66.4
80.5°	31.9	34.3	42.0	52.3	62.0	62.2
81°	29.6	31.6	39.0	48.6	58.0	58.3
81.5°	27.4	29.1	36.0	44.9	54.1	54.1
82°	25.4	26.9	33.1	41.2	49.9	50.1
82.5°	23.2	24.4	30.4	37.8	46.2	46.2
83°	21.2	22.2	27.7	34.3	42.2	42.2
83.5°	19.3	20.0	24.9	30.9	38.5	38.3
84°	17.3	17.8	22.2	27.7	34.6	34.6
84.5°	15.3	15.8	19.8	24.4	30.9	30.9
85°	13.3	13.6	17.3	21.5	27.4	27.2
85.5°	11.4	11.9	14.8	18.8	23.7	23.5
86°	9.4	9.9	12.6	15.8	20.2	19.8
86.5°	7.7	8.1	10.4	13.1	17.0	16.0
87°	5.7	6.4	8.4	10.6	14.1	12.6
87.5°	3.7	4.7	6.4	7.9	11.4	10.1
88°	2.0	3.0	4.4	5.9	8.9	8.1
88.5°	0.5	1.2	2.5	4.0	6.7	6.2



TEST NUMBER: P776211

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-HCD8TSQLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.2	0.2



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Scaled Data Report





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

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21.5°	1116.7	1111.5	1076.2	1015.5	931.3	842.2	764.4	704.4	684.2	694.5	736.5
22°	1115.5	1110.1	1074.3	1012.5	927.1	836.3	757.0	696.3	675.5	686.4	728.6



44°	739.2	789.8	834.3	713.5	577.3	484.9	402.4	336.3	318.3	328.1	376.3
44.5°	718.0	769.1	826.1	700.7	565.2	475.5	394.1	328.9	311.6	321.2	368.4



66.5°	199.5	203.2	203.0	168.9	141.7	131.1	115.8	116.8	115.8	116.3	112.1
67°	193.6	197.0	195.8	163.0	136.5	126.4	112.1	113.6	112.3	113.1	108.6



89°	4.2	4.2	4.2	2.5	0.7	0.5	0.5	0.2	0.0	0.2	0.2
89.5°	2.2	2.2	2.2	0.5	0.0	0.0	0.0	0.2	0.0	0.2	0.0

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21.5°	805.4	891.3	973.3	1041.9	1093.3	1116.7
22°	799.0	886.4	969.6	1039.5	1091.3	1115.5



44°	451.8	536.8	648.1	777.7	794.0	739.2
44.5°	443.2	525.4	635.0	768.4	774.3	718.0

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66.5°	122.7	137.0	156.8	192.1	204.4	199.5
67°	118.0	132.1	151.3	185.2	198.3	193.6



89°	0.0	0.2	0.5	2.0	4.4	4.2
89.5°	0.0	0.0	0.0	0.2	2.5	2.2

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(END OF REPORT)