

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



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: P775792

Luminaire Tested: HCDJBL5510CSD-HCD6TSQC-1000lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775792
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-3500K
Description: 6 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

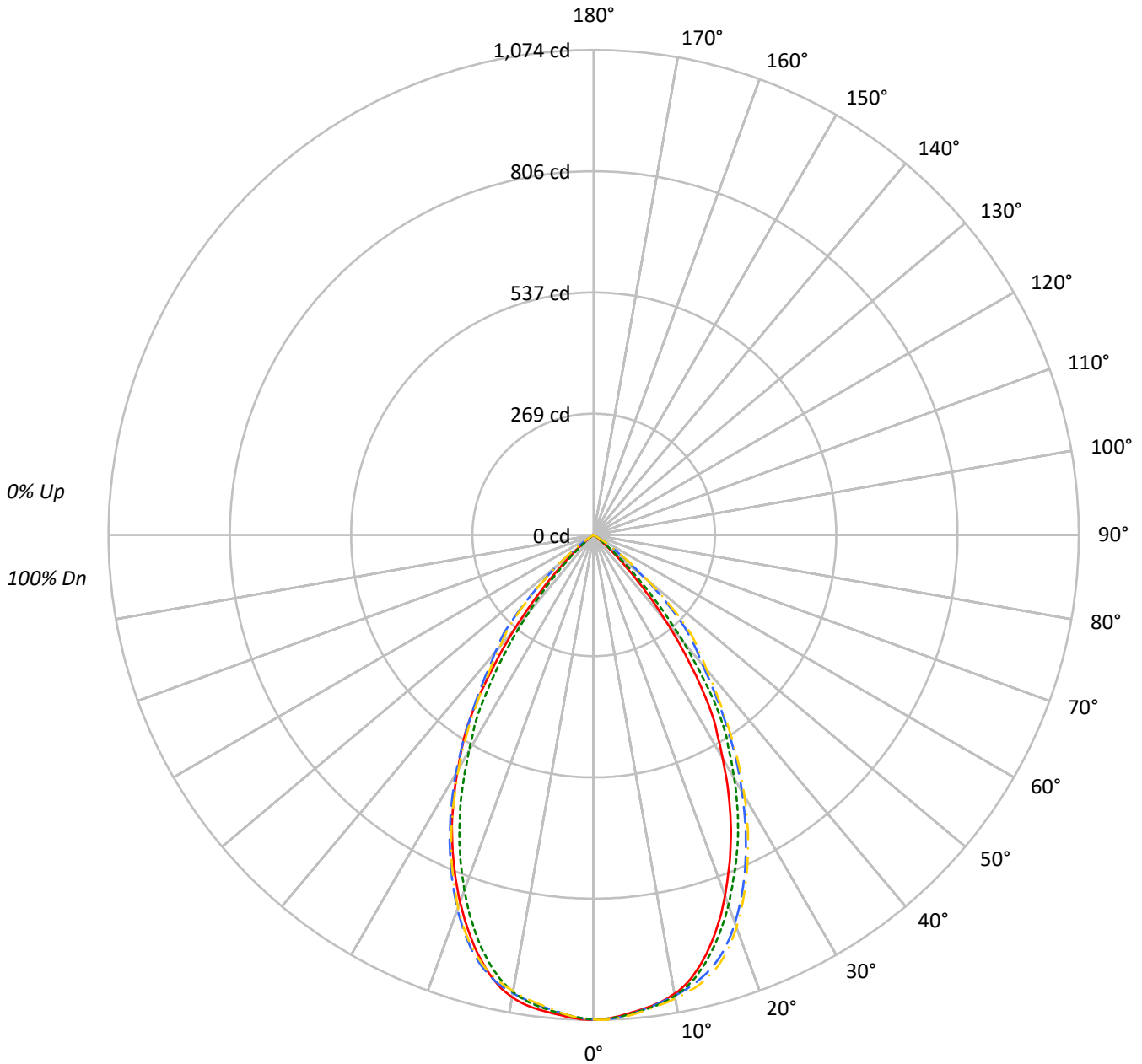
Lumens per Lamp: N/A
Luminaire Lumens: 1170.8 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.99
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
Input Current (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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CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-3500K

Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	46220	46220	46220	46220
5°	45787	45887	45952	45727
10°	45110	45307	45442	44940
15°	42881	43358	43277	42404
20°	38955	39963	39629	38337
25°	34162	35820	35255	33369
30°	28358	30929	29944	27443
35°	22107	25503	23773	20730
40°	13933	17255	15333	12579
45°	6741	9213	7690	5766
50°	2050	3229	2418	1641
55°	270	248	240	210
60°	189	198	198	164
65°	163	163	173	132
70°	126	138	138	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: 17865 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	8.6
10°-20°	272.0	23.2
20°-30°	343.9	29.4
30°-40°	290.6	24.8
40°-50°	140.3	12.0
50°-60°	21.0	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°	716.3	61.2
0°-40°	1006.8	86.0
0°-60°	1168.1	99.8
0°-90°	1170.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1170.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1074	1074	1074	1074	1074	
5°	1059	1062	1063	1058	1059	100
15°	962	973	971	951	962	268
25°	719	754	742	702	719	327
35°	421	485	452	394	421	257
45°	111	151	126	95	111	90
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°	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5
0.5°	1073.6	1073.7	1073.6	1073.7	1072.6	1073.3	1074.0	1074.6	1073.9	1073.2	1072.9
1°	1073.0	1073.5	1073.5	1073.7	1072.5	1073.5	1074.1	1074.4	1073.7	1072.3	1071.8
1.5°	1071.9	1072.9	1073.1	1073.5	1072.1	1073.1	1074.0	1073.9	1073.0	1071.2	1070.6
2°	1070.8	1072.1	1072.5	1073.1	1071.1	1072.6	1073.5	1072.9	1071.7	1069.8	1069.0
2.5°	1069.2	1071.1	1071.5	1072.3	1070.1	1071.6	1072.6	1071.7	1070.6	1068.1	1067.3
3°	1067.6	1069.6	1070.2	1071.2	1068.8	1070.5	1071.3	1070.2	1069.2	1066.3	1065.1
3.5°	1065.4	1067.9	1068.5	1069.8	1067.3	1068.9	1069.8	1068.8	1067.6	1064.4	1063.0
4°	1063.2	1065.9	1066.7	1068.0	1065.4	1067.5	1068.0	1067.1	1065.9	1062.4	1060.6
4.5°	1061.2	1063.7	1064.5	1066.1	1063.7	1065.5	1066.3	1065.5	1064.8	1060.5	1058.2
5°	1059.4	1061.5	1062.0	1064.1	1061.7	1063.6	1064.2	1064.1	1063.2	1058.6	1055.8
5.5°	1057.4	1059.4	1059.6	1061.8	1059.9	1061.6	1062.1	1062.4	1061.7	1056.6	1053.6
6°	1055.4	1057.4	1056.8	1059.3	1058.1	1059.6	1060.0	1060.7	1060.0	1054.5	1051.6
6.5°	1053.2	1055.5	1054.3	1056.9	1056.1	1057.7	1057.8	1058.8	1058.7	1052.5	1049.3
7°	1051.2	1053.2	1051.9	1054.7	1054.0	1055.5	1055.7	1057.0	1056.8	1050.1	1046.9
7.5°	1048.5	1050.8	1049.3	1052.2	1051.9	1053.2	1053.5	1055.0	1054.8	1047.5	1044.4
8°	1046.2	1048.4	1046.9	1049.6	1049.4	1050.9	1051.4	1052.9	1052.5	1044.8	1041.9
8.5°	1043.1	1045.7	1044.2	1046.9	1046.8	1048.2	1049.3	1050.5	1050.0	1041.9	1039.4
9°	1039.5	1042.9	1041.5	1044.1	1043.7	1045.4	1047.1	1047.8	1047.0	1038.7	1036.7
9.5°	1035.7	1039.6	1038.9	1041.0	1040.3	1042.6	1044.8	1045.1	1043.4	1035.1	1033.7
10°	1031.8	1036.0	1036.0	1037.9	1036.3	1039.3	1042.5	1041.5	1039.4	1030.9	1030.5
10.5°	1027.5	1032.3	1033.1	1034.5	1032.4	1035.6	1040.0	1037.8	1035.3	1026.8	1027.6
11°	1022.4	1028.3	1030.1	1030.6	1027.9	1031.6	1037.4	1033.4	1030.3	1022.3	1024.1
11.5°	1016.6	1024.0	1027.0	1026.8	1023.1	1027.5	1034.5	1029.3	1024.9	1017.1	1020.2
12°	1010.5	1019.2	1023.4	1022.4	1017.5	1023.2	1031.3	1024.3	1018.6	1011.4	1015.8
12.5°	1003.8	1013.7	1019.6	1018.0	1011.2	1018.0	1028.3	1018.9	1011.8	1005.0	1011.3
13°	996.3	1007.7	1015.6	1013.0	1004.4	1012.7	1024.6	1012.9	1004.5	998.0	1005.9
13.5°	988.3	1001.3	1011.3	1007.9	997.1	1006.5	1020.6	1006.5	996.8	990.8	1000.4
14°	980.0	994.5	1006.7	1002.1	989.3	1000.1	1016.0	999.5	988.4	983.1	994.2
14.5°	971.3	987.1	1001.6	995.6	981.2	992.9	1011.3	991.9	979.8	975.0	987.7
15°	962.0	979.2	996.1	988.6	972.7	985.6	1006.3	984.2	970.9	966.5	980.4
15.5°	952.1	971.1	990.3	981.4	964.0	977.9	1000.7	976.3	961.5	958.2	972.7
16°	942.1	962.4	984.1	974.0	954.8	970.1	994.5	968.1	951.9	949.0	964.3
16.5°	931.6	953.5	977.1	965.9	945.5	962.0	987.6	959.3	942.1	939.7	955.3
17°	921.2	944.1	969.8	957.5	935.9	953.3	980.2	949.9	931.7	930.0	945.8
17.5°	909.9	934.4	962.0	948.9	925.9	944.5	972.1	940.7	920.7	920.3	936.5
18°	898.9	924.8	953.5	940.2	915.4	935.4	963.4	931.2	910.1	909.9	925.9
18.5°	887.5	914.6	944.6	931.0	904.9	926.1	954.4	921.3	899.1	899.3	915.1
19°	875.6	904.2	934.9	921.6	894.3	916.5	944.7	911.0	887.9	888.6	904.3
19.5°	863.0	893.5	925.2	911.6	883.6	906.7	934.7	900.7	876.4	878.2	893.6
20°	850.2	882.3	914.8	902.0	872.2	896.5	924.5	890.1	864.9	866.7	881.4
20.5°	837.4	871.4	904.2	891.9	860.5	886.2	913.7	879.2	853.1	855.3	869.6
21°	824.0	859.8	893.2	881.7	848.7	875.4	902.5	868.2	841.0	844.1	857.4



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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°	786.5	822.8	858.6	849.3	813.2	842.0	868.1	834.6	804.7	808.3	820.0
23°	773.4	810.2	846.5	837.9	802.0	830.1	855.7	823.0	792.2	796.5	806.8
23.5°	759.7	797.9	834.0	826.5	790.0	818.3	843.7	811.4	779.7	783.7	793.7
24°	746.4	786.0	821.4	814.7	778.0	806.7	831.1	799.5	767.1	771.0	780.5
24.5°	732.9	773.8	808.8	802.9	766.0	795.6	818.4	786.8	754.6	758.1	767.3
25°	719.1	761.0	795.8	791.3	754.0	783.3	805.0	774.3	742.1	745.4	754.2
25.5°	705.0	747.8	782.8	779.8	742.0	771.1	792.0	761.7	728.7	733.3	741.0
26°	690.7	734.5	769.1	767.7	729.4	758.8	779.1	749.0	715.5	719.9	726.1
26.5°	676.3	720.8	755.4	755.0	716.4	746.4	766.0	736.5	701.6	706.5	712.1
27°	661.8	707.5	741.8	742.6	703.3	735.1	753.0	723.1	687.9	692.9	697.5
27.5°	646.8	693.5	727.6	730.2	690.2	722.4	739.9	709.7	674.0	679.3	683.1
28°	631.7	679.9	713.7	717.3	676.9	709.1	725.5	696.3	659.9	666.0	668.1
28.5°	616.3	665.5	699.0	704.6	663.7	696.1	711.6	682.7	645.6	652.3	653.9
29°	601.1	651.9	684.6	691.1	650.0	682.9	697.0	668.8	631.5	638.2	639.4
29.5°	585.8	637.4	670.3	677.7	636.3	670.3	682.2	654.9	616.7	624.6	625.0
30°	570.4	623.6	656.5	664.9	622.1	656.5	667.4	641.0	602.3	610.6	609.8
30.5°	556.1	608.7	642.2	651.4	608.1	643.3	653.5	627.1	588.2	596.7	595.2
31°	542.0	594.3	627.7	638.6	594.4	629.7	639.2	613.1	575.0	582.4	579.9
31.5°	526.8	579.5	613.3	625.0	581.4	617.1	624.5	598.8	560.3	568.6	564.8
32°	513.4	565.0	599.3	611.6	567.3	603.0	609.7	585.1	547.8	555.2	549.3
32.5°	502.1	550.2	584.7	597.6	553.5	589.7	594.9	571.0	533.8	542.5	534.1
33°	489.1	536.7	569.6	584.7	542.6	576.0	579.6	558.1	520.0	528.7	518.9
33.5°	472.9	523.1	554.8	571.3	529.7	563.9	564.9	544.4	504.4	516.4	503.8
34°	457.0	508.9	540.2	558.1	515.6	550.0	549.7	531.0	487.9	503.3	489.1
34.5°	438.7	496.3	525.4	545.0	501.1	536.1	534.8	519.3	470.7	490.2	474.4
35°	420.6	485.4	510.9	531.8	485.2	524.9	520.0	505.1	452.3	475.9	459.7
35.5°	402.8	473.1	495.8	518.4	469.0	514.0	505.6	492.0	433.4	460.7	445.7
36°	385.5	457.8	481.1	507.9	450.9	499.6	491.3	477.1	414.5	444.1	431.7
36.5°	366.4	443.1	466.9	494.8	432.7	487.0	477.5	461.2	395.2	427.5	418.3
37°	349.3	425.7	452.7	481.7	413.6	472.0	463.4	444.7	376.9	410.2	405.3
37.5°	332.4	408.9	438.9	468.3	395.4	456.7	450.0	427.5	359.1	392.7	392.7
38°	315.3	392.3	425.1	453.4	376.8	440.2	437.1	409.9	341.4	375.2	380.3
38.5°	298.3	376.4	412.0	437.9	359.1	423.8	424.5	391.7	324.5	357.7	368.7
39°	280.9	360.1	399.0	421.2	341.6	406.3	412.5	374.3	307.5	341.1	357.7
39.5°	264.1	343.9	386.5	404.1	324.4	388.9	400.5	357.0	290.2	324.9	348.1
40°	247.9	327.6	375.2	387.0	307.0	371.5	389.2	340.4	272.8	309.3	338.3
40.5°	231.9	311.3	365.7	369.2	290.0	354.7	378.5	324.4	255.8	293.9	328.1
41°	216.9	295.2	356.2	353.0	273.0	337.8	369.3	308.4	239.1	278.1	321.6
41.5°	202.3	279.0	346.6	336.6	256.1	321.9	360.0	292.7	223.0	262.7	312.7
42°	187.8	263.1	337.1	320.3	239.5	305.9	349.7	277.0	207.6	247.1	302.1
42.5°	173.4	247.1	327.6	304.1	223.1	290.6	341.9	261.3	193.0	231.9	291.8
43°	159.7	232.2	318.2	288.6	207.8	274.6	335.4	245.5	178.6	217.0	278.2
43.5°	146.6	217.9	308.2	273.2	192.8	258.6	325.2	229.7	164.8	202.5	264.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	110.7	176.1	275.0	227.2	151.3	213.1	293.4	186.9	126.3	162.3	222.5
45.5°	99.6	162.8	262.9	212.6	138.5	198.6	280.7	173.8	114.3	149.5	208.4
46°	89.2	149.9	249.9	198.3	126.1	184.8	267.2	160.5	104.4	137.0	194.7
46.5°	79.2	137.3	237.0	184.8	114.0	171.6	253.1	147.9	94.5	125.1	181.4
47°	69.7	125.2	223.7	171.5	104.0	158.3	238.1	135.7	84.5	114.1	168.5
47.5°	60.7	113.7	210.4	158.9	93.8	145.6	223.4	123.9	74.6	104.3	155.7
48°	52.5	102.5	196.5	146.6	83.8	133.3	209.3	112.5	64.7	94.5	143.7
48.5°	45.3	92.4	182.7	134.4	73.7	121.6	195.6	102.8	56.7	84.6	131.9
49°	38.8	82.2	169.0	122.6	63.7	109.8	182.4	93.2	49.3	74.9	120.7
49.5°	34.6	72.7	156.5	111.4	55.6	99.7	169.4	83.6	42.5	65.0	109.8
50°	30.6	63.7	144.0	100.9	48.2	89.6	157.2	73.9	36.1	57.1	100.3
50.5°	26.4	55.6	132.5	90.8	41.2	79.5	145.4	64.3	30.7	49.4	90.7
51°	22.3	48.0	120.9	80.9	34.9	69.5	134.1	55.9	25.4	42.6	81.2
51.5°	18.2	41.1	110.3	71.7	29.3	60.9	122.6	48.7	20.8	35.9	71.6
52°	15.1	35.0	99.8	63.2	24.1	52.8	111.4	41.5	17.4	30.1	63.6
52.5°	12.2	30.9	90.3	55.2	19.4	45.3	101.8	35.3	14.0	24.8	55.9
53°	9.3	26.7	81.0	47.6	16.2	38.4	92.2	29.2	10.6	20.2	48.9
53.5°	6.5	22.6	72.0	40.8	12.9	32.1	82.4	24.1	7.0	16.8	42.4
54°	4.5	18.4	63.5	34.4	9.6	26.6	72.8	19.4	3.7	13.4	36.6
54.5°	3.9	15.4	56.0	29.3	6.4	21.5	63.2	16.2	3.4	9.9	31.2
55°	3.6	12.4	48.8	24.2	3.3	17.9	55.6	12.8	3.2	6.6	26.3
55.5°	3.2	9.6	42.4	19.2	3.1	14.3	48.1	9.6	3.1	3.4	22.1
56°	2.9	6.8	36.5	14.2	3.0	10.8	41.2	6.3	3.0	3.1	18.3
56.5°	2.8	4.6	32.1	10.3	2.9	7.2	34.9	3.1	2.9	3.0	15.1
57°	2.7	4.1	27.8	6.8	2.8	3.6	29.3	2.9	2.8	2.9	13.2
57.5°	2.6	3.7	23.5	4.0	2.7	3.0	24.1	2.9	2.7	2.8	11.2
58°	2.5	3.3	19.2	3.6	2.6	2.9	19.7	2.8	2.7	2.7	9.2
58.5°	2.4	3.0	14.8	3.2	2.5	2.8	15.8	2.7	2.6	2.6	7.4
59°	2.4	2.6	12.0	2.9	2.4	2.7	13.7	2.6	2.5	2.5	5.4
59.5°	2.3	2.5	9.7	2.5	2.4	2.6	11.5	2.5	2.4	2.5	4.3
60°	2.2	2.4	7.9	2.4	2.3	2.5	9.3	2.4	2.3	2.4	3.6
60.5°	2.1	2.4	6.4	2.4	2.2	2.4	7.2	2.4	2.3	2.3	3.0
61°	2.1	2.3	5.2	2.3	2.1	2.4	5.1	2.3	2.2	2.2	2.6
61.5°	2.0	2.2	4.2	2.2	2.1	2.3	4.1	2.2	2.1	2.2	2.3
62°	2.0	2.2	3.8	2.2	2.0	2.2	3.4	2.2	2.0	2.1	2.2
62.5°	1.9	2.1	3.4	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°	1.4	1.7	1.8	1.7	1.4	1.7	1.9	1.7	1.6	1.6	1.7



TEST NUMBER: P775792

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.3	1.4	1.7	1.4	1.3	1.6	1.7	1.4	1.3	1.4	1.4
68°	1.2	1.4	1.6	1.4	1.2	1.4	1.6	1.4	1.3	1.3	1.3
68.5°	1.2	1.3	1.6	1.3	1.2	1.3	1.6	1.3	1.2	1.2	1.3
69°	1.1	1.3	1.4	1.3	1.1	1.3	1.4	1.3	1.2	1.2	1.2
69.5°	1.1	1.2	1.4	1.3	1.1	1.2	1.4	1.2	1.1	1.1	1.2
70°	1.0	1.2	1.3	1.2	1.1	1.2	1.3	1.2	1.1	1.1	1.1
70.5°	1.0	1.1	1.3	1.2	1.0	1.2	1.3	1.1	1.0	1.1	1.1
71°	1.0	1.1	1.2	1.1	1.0	1.1	1.2	1.1	1.0	1.0	1.0
71.5°	0.9	1.0	1.2	1.1	0.9	1.1	1.2	1.0	0.9	1.0	1.0
72°	0.9	1.0	1.1	1.0	0.9	1.0	1.1	1.0	0.9	0.9	0.9
72.5°	0.8	0.9	1.1	1.0	0.9	1.0	1.1	1.0	0.9	0.9	0.9
73°	0.8	0.9	1.0	1.0	0.8	0.9	1.0	0.9	0.8	0.8	0.9
73.5°	0.8	0.9	1.0	0.9	0.8	0.9	1.0	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: P775792
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-3500K

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: P775792

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1073.5	1073.5	1073.5	1073.5	1073.5	1073.5
0.5°	1072.5	1071.9	1072.5	1073.0	1074.0	1073.6
1°	1071.2	1071.2	1071.5	1071.8	1073.2	1073.0
1.5°	1070.0	1070.1	1070.3	1070.6	1072.4	1071.9
2°	1068.4	1068.7	1068.6	1069.0	1071.2	1070.8
2.5°	1066.7	1067.1	1067.0	1067.1	1069.4	1069.2
3°	1064.7	1065.3	1065.0	1065.0	1067.7	1067.6
3.5°	1062.8	1063.2	1062.7	1062.7	1065.4	1065.4
4°	1060.9	1061.6	1060.6	1060.2	1063.0	1063.2
4.5°	1059.0	1059.8	1058.4	1057.3	1060.7	1061.2
5°	1056.9	1058.0	1056.3	1054.4	1058.3	1059.4
5.5°	1054.7	1056.2	1054.0	1051.8	1056.0	1057.4
6°	1052.2	1054.2	1051.6	1049.2	1053.7	1055.4
6.5°	1049.8	1052.1	1049.2	1046.7	1051.2	1053.2
7°	1047.0	1049.7	1046.6	1044.2	1048.6	1051.2
7.5°	1044.1	1047.1	1043.6	1041.5	1045.8	1048.5
8°	1040.9	1044.2	1040.4	1038.6	1043.1	1046.2
8.5°	1037.3	1040.8	1036.9	1035.7	1039.9	1043.1
9°	1033.1	1036.6	1033.2	1032.6	1036.6	1039.5
9.5°	1028.9	1032.4	1029.2	1029.6	1032.9	1035.7
10°	1024.1	1027.9	1024.7	1026.2	1029.2	1031.8
10.5°	1018.8	1022.4	1019.7	1022.6	1025.1	1027.5
11°	1013.2	1016.7	1014.6	1018.9	1020.8	1022.4
11.5°	1007.2	1010.2	1009.0	1014.8	1016.1	1016.6
12°	1000.7	1003.2	1002.7	1010.3	1010.9	1010.5
12.5°	993.7	995.6	995.9	1005.4	1005.0	1003.8
13°	986.2	987.9	988.6	1000.3	998.8	996.3
13.5°	978.3	979.4	981.0	994.8	992.2	988.3
14°	970.1	970.3	973.0	988.9	985.0	980.0
14.5°	961.8	961.0	964.7	982.5	977.5	971.3
15°	952.8	951.3	955.7	975.3	969.2	962.0
15.5°	943.7	941.2	946.4	967.8	960.7	952.1
16°	934.1	930.9	936.9	959.6	951.8	942.1
16.5°	924.3	919.9	927.1	951.0	942.6	931.6
17°	914.2	908.9	917.2	942.0	933.2	921.2
17.5°	904.0	897.6	906.8	932.1	923.0	909.9
18°	893.2	886.4	895.9	922.2	912.9	898.9
18.5°	882.9	874.3	884.9	911.7	902.4	887.5
19°	871.6	862.0	873.9	900.9	891.7	875.6
19.5°	860.5	849.5	862.5	889.6	880.8	863.0
20°	848.4	836.7	851.0	878.0	869.5	850.2
20.5°	836.8	823.5	838.5	865.2	858.1	837.4
21°	824.6	810.6	826.5	853.4	846.0	824.0

TEST NUMBER: P775792

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	787.8	771.6	788.4	814.5	807.9	786.5
23°	775.4	758.2	775.9	801.9	794.9	773.4
23.5°	763.0	744.8	763.5	788.2	782.4	759.7
24°	750.6	730.8	750.0	774.4	770.2	746.4
24.5°	738.1	716.7	736.4	759.9	757.7	732.9
25°	724.4	702.4	722.8	746.4	743.9	719.1
25.5°	710.3	688.1	708.8	731.9	730.5	705.0
26°	696.3	673.3	694.9	717.1	716.6	690.7
26.5°	682.3	658.8	680.9	701.4	703.1	676.3
27°	667.9	643.6	666.9	687.2	688.6	661.8
27.5°	653.3	628.3	652.1	672.1	674.6	646.8
28°	638.8	612.8	637.5	656.6	659.9	631.7
28.5°	624.0	597.3	623.0	641.7	645.6	616.3
29°	609.0	581.6	608.1	627.0	630.8	601.1
29.5°	593.9	566.5	593.1	612.7	616.7	585.8
30°	578.9	552.0	578.0	598.1	601.6	570.4
30.5°	564.0	537.9	563.1	583.3	586.8	556.1
31°	549.1	522.7	548.3	568.1	571.8	542.0
31.5°	535.2	509.6	533.6	552.6	557.2	526.8
32°	521.4	497.7	519.9	537.2	542.3	513.4
32.5°	506.9	482.0	506.2	521.9	527.6	502.1
33°	494.2	467.1	491.4	506.8	514.2	489.1
33.5°	482.5	448.9	479.6	491.2	500.2	472.9
34°	467.5	430.2	467.6	475.9	486.1	457.0
34.5°	453.6	412.2	452.2	460.7	474.6	438.7
35°	436.5	394.4	437.6	445.8	463.1	420.6
35.5°	419.4	377.5	420.2	431.2	448.7	402.8
36°	402.4	359.9	403.1	417.2	434.7	385.5
36.5°	385.8	342.2	386.6	403.1	418.4	366.4
37°	369.3	324.5	369.7	389.8	401.5	349.3
37.5°	353.2	306.9	353.8	377.0	384.5	332.4
38°	337.0	289.2	337.7	365.9	366.3	315.3
38.5°	320.4	271.9	321.8	354.8	351.3	298.3
39°	303.7	255.0	305.8	343.7	336.2	280.9
39.5°	287.0	239.1	289.7	332.7	321.2	264.1
40°	270.5	223.8	273.1	321.6	306.0	247.9
40.5°	254.9	209.1	257.4	312.4	289.9	231.9
41°	239.7	194.2	241.7	304.4	273.9	216.9
41.5°	225.0	179.9	227.3	295.6	258.0	202.3
42°	210.6	165.5	213.0	287.5	242.8	187.8
42.5°	196.5	152.8	199.6	279.0	228.3	173.4
43°	182.7	140.0	186.0	266.1	214.3	159.7
43.5°	169.4	127.9	172.7	253.8	200.5	146.6



TEST NUMBER: P775792

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	131.6	94.7	135.1	212.9	161.4	110.7
45.5°	119.8	84.5	123.4	200.5	148.7	99.6
46°	108.6	74.9	112.4	188.1	136.7	89.2
46.5°	98.7	65.6	101.9	175.8	125.0	79.2
47°	88.8	57.1	91.9	163.4	113.9	69.7
47.5°	78.9	49.2	81.9	152.1	103.4	60.7
48°	69.0	42.4	72.8	140.5	93.1	52.5
48.5°	60.4	36.4	64.3	129.5	83.2	45.3
49°	52.3	32.4	56.2	118.9	74.2	38.8
49.5°	44.9	28.5	48.9	108.7	65.4	34.6
50°	38.6	24.5	42.0	99.0	57.1	30.6
50.5°	33.0	20.6	35.9	89.9	49.3	26.4
51°	28.2	16.8	31.9	81.4	42.7	22.3
51.5°	23.9	13.8	27.9	73.3	36.7	18.2
52°	20.3	10.9	23.8	65.7	32.5	15.1
52.5°	17.1	8.1	19.7	58.6	28.4	12.2
53°	14.4	5.4	15.7	51.8	24.3	9.3
53.5°	11.7	3.5	12.7	45.5	20.2	6.5
54°	9.0	3.2	9.8	39.7	16.2	4.5
54.5°	6.3	3.0	7.1	34.4	13.2	3.9
55°	3.7	2.8	4.7	29.5	10.3	3.6
55.5°	2.8	2.6	4.1	26.0	7.5	3.2
56°	2.7	2.5	3.7	22.5	5.0	2.9
56.5°	2.6	2.4	3.2	19.1	3.2	2.8
57°	2.5	2.3	2.7	15.5	3.0	2.7
57.5°	2.4	2.2	2.2	12.0	2.9	2.6
58°	2.3	2.2	2.2	9.6	2.7	2.5
58.5°	2.3	2.1	2.1	7.7	2.5	2.4
59°	2.2	2.0	2.1	6.1	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	3.9	2.3	2.2
60.5°	2.0	1.8	1.9	3.5	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	1.4	1.6	1.8	1.9	1.8
64°	1.6	1.4	1.4	1.8	1.8	1.7
64.5°	1.4	1.3	1.4	1.7	1.7	1.7
65°	1.4	1.3	1.3	1.7	1.7	1.6
65.5°	1.3	1.2	1.3	1.6	1.6	1.6
66°	1.3	1.2	1.2	1.6	1.6	1.4



TEST NUMBER: P775792

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.2	1.0	1.1	1.3	1.3	1.3
68°	1.1	1.0	1.1	1.3	1.3	1.2
68.5°	1.1	1.0	1.0	1.2	1.2	1.2
69°	1.0	0.9	1.0	1.2	1.2	1.1
69.5°	1.0	0.9	1.0	1.1	1.2	1.1
70°	0.9	0.8	0.9	1.1	1.1	1.0
70.5°	0.9	0.8	0.9	1.1	1.1	1.0
71°	0.9	0.8	0.8	1.0	1.0	1.0
71.5°	0.8	0.7	0.8	1.0	1.0	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: P775792
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-3500K

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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Cooper Lighting Solutions Photometric Lab
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°	811.4	847.7	881.8	871.2	836.7	864.3	891.4	857.2	829.2	832.7	845.5
22°	798.9	835.4	870.2	860.4	824.8	853.2	879.9	846.2	817.6	820.2	832.7



44°	133.9	203.9	299.9	257.9	178.2	243.1	316.1	214.9	151.5	188.6	250.6
44.5°	122.0	189.7	287.5	242.4	164.8	228.3	305.4	200.8	138.6	175.2	236.6



66.5°	1.4	1.6	1.8	1.6	1.4	1.7	1.8	1.6	1.4	1.6	1.6
67°	1.3	1.6	1.7	1.6	1.3	1.6	1.8	1.6	1.4	1.4	1.4



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°	812.3	798.1	813.7	840.9	833.5	811.4
22°	800.2	785.3	801.3	828.1	820.5	798.9



44°	156.4	116.0	159.4	240.4	187.5	133.9
44.5°	143.4	105.2	147.1	226.7	174.2	122.0

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66.5°	1.3	1.1	1.2	1.4	1.4	1.4
67°	1.2	1.1	1.2	1.4	1.4	1.3

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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)