

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

Report Number: P1590541

Luminaire Tested: HCDLS510CSD4TRMW-ME-5000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2603928A002)
Test Lab: INNOVATION CENTER
Issue Date: 9/4/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: HCDLS510CSD4TRMW-ME-5000K
Description: 4" Selectable Round Trim+Matte White (paintable) 700 Lumens 5000K

Light Source:
Ballast/Driver: -

Summary

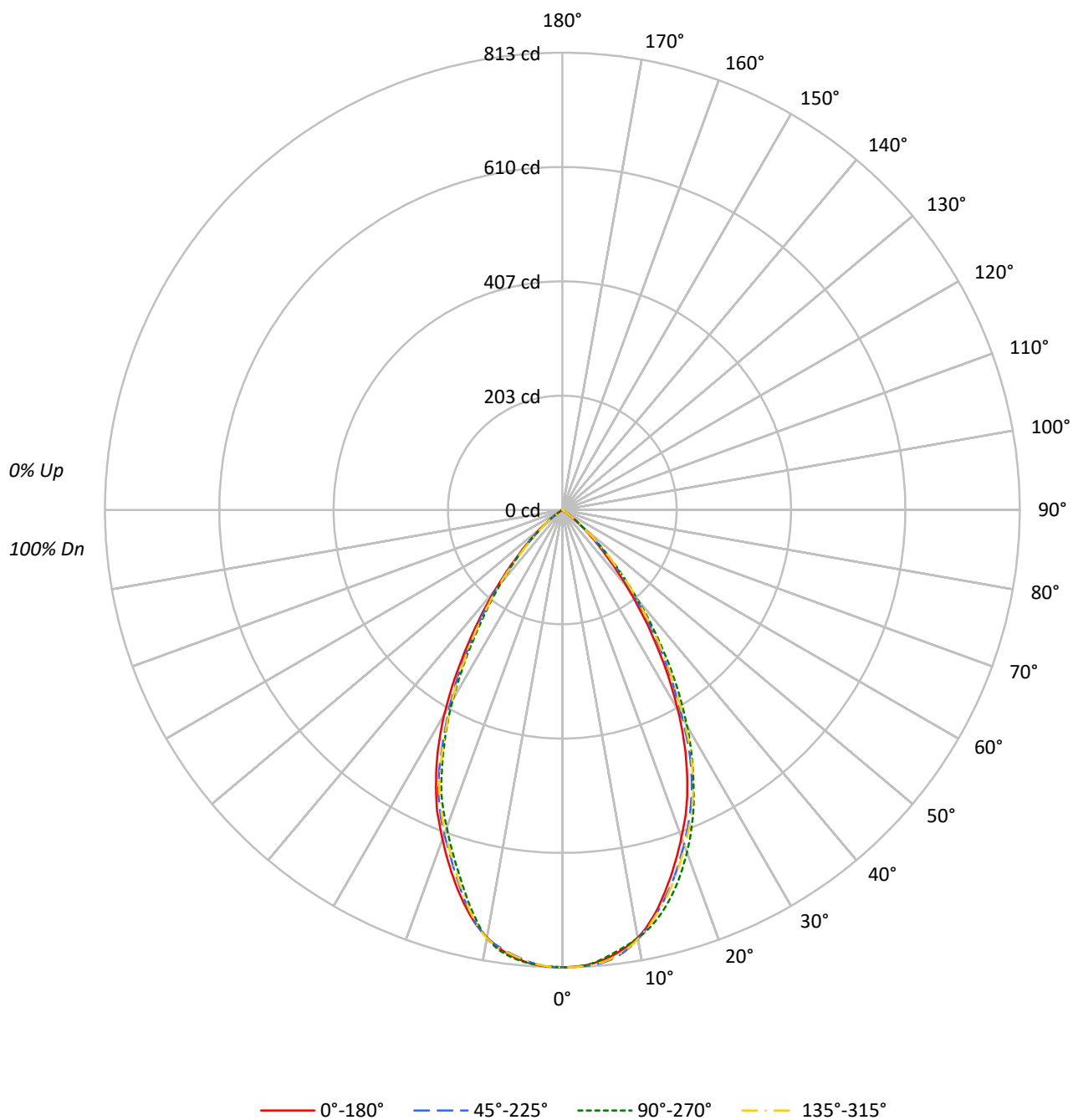
Lumens per Lamp: N/A
Luminaire Lumens: 795.1 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
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					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93		93
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86		86
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79		79
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73		73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68		68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63		63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	67	63	60	58		58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		55
9	73	63	57	53	72	63	57	53	62	56	53	61	56	53	60	56	52	51		51
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48		48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	100292	100292	100292	100292
5°	99549	99326	99660	99796
10°	96692	96817	96667	96792
15°	89873	92401	90192	87868
20°	81290	85018	81815	78875
25°	71437	75194	72295	68851
30°	58452	63152	59720	55376
35°	43396	48862	44315	40234
40°	28951	33636	30110	27180
45°	16990	20374	17967	16606
50°	8309	9537	8904	8539
55°	2710	2882	2882	2925
60°	641	691	666	715
65°	292	350	321	379
70°	180	216	180	216
75°	95	143	95	143
80°	71	71	71	71
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 20374 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	9.5
10°-20°	196.9	24.8
20°-30°	240.6	30.3
30°-40°	183.3	23.0
40°-50°	81.7	10.3
50°-60°	14.8	1.9
60°-70°	1.3	0.2
70°-80°	0.3	0.0
80°-90°	0.0	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°	0.1	0.0
140°-150°	0.1	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	513.3	64.6
0°-40°	696.5	87.6
0°-60°	793.1	99.7
0°-90°	794.6	99.9
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	795.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	813	813	813	813	813	
5°	804	802	805	806	804	76
15°	704	724	706	688	704	196
25°	525	552	531	506	525	239
35°	288	324	294	267	288	180
45°	97	117	103	95	97	78
55°	13	13	13	14	13	14
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	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°	813.1	813.1	813.1	813.1	813.1	813.1	813.1	813.1	813.1	813.1	813.1
0.5°	813.2	813.0	813.0	813.2	813.0	813.0	813.4	813.2	813.2	813.0	813.0
1°	812.9	812.9	813.0	813.2	813.0	813.0	813.2	813.2	813.0	812.7	812.7
1.5°	812.5	812.6	812.9	813.0	812.7	812.9	813.0	812.9	812.7	812.2	812.2
2°	811.9	812.2	812.7	812.6	812.2	812.4	812.7	812.6	812.1	811.5	811.6
2.5°	811.2	811.9	812.3	812.0	811.5	811.7	812.4	812.2	811.4	810.6	810.7
3°	810.4	811.5	811.8	811.1	810.4	810.8	811.7	811.7	810.6	809.4	809.5
3.5°	809.1	811.0	811.2	810.0	809.0	809.7	810.9	811.0	809.7	807.9	808.0
4°	807.7	810.2	810.7	808.6	807.0	808.1	810.1	810.2	808.3	806.0	806.2
4.5°	805.9	809.2	809.7	806.8	804.7	806.2	808.9	809.2	806.8	803.9	804.2
5°	804.0	808.0	808.3	804.6	802.2	803.8	807.4	808.1	804.9	801.5	802.0
5.5°	801.7	806.4	806.7	802.3	799.5	801.4	805.6	806.5	802.9	799.0	799.7
6°	799.5	804.4	804.8	799.7	796.7	798.7	803.6	804.7	800.5	796.3	797.2
6.5°	796.8	802.1	802.6	797.0	793.7	795.9	801.2	802.5	797.7	793.6	794.7
7°	794.0	799.3	799.8	794.2	790.9	793.0	798.5	799.8	794.8	790.7	792.2
7.5°	791.0	796.2	796.7	791.1	788.0	790.0	795.5	796.7	791.9	787.8	789.4
8°	787.9	792.7	793.1	787.8	785.1	786.8	792.1	793.1	788.4	784.8	786.5
8.5°	784.3	788.8	789.2	784.3	782.2	783.8	788.3	789.3	784.7	781.4	783.4
9°	780.5	784.5	784.8	780.6	779.2	780.3	784.0	784.9	780.8	778.0	780.0
9.5°	776.3	779.7	780.0	776.7	776.2	776.6	779.5	780.0	776.6	774.2	776.3
10°	772.0	774.6	774.9	772.5	773.0	772.7	774.5	774.9	771.8	770.2	772.0
10.5°	767.1	769.1	769.4	768.0	769.5	768.7	769.4	769.3	766.8	765.4	767.0
11°	761.7	763.3	763.6	763.2	765.6	764.3	763.9	763.6	761.5	760.4	761.5
11.5°	755.8	757.0	757.8	758.2	761.5	759.7	758.3	757.6	755.8	754.8	755.4
12°	749.1	750.5	751.6	752.6	757.1	754.8	752.5	751.4	749.7	748.3	748.3
12.5°	742.3	743.8	745.1	747.3	752.1	749.3	746.6	745.0	742.8	741.3	740.3
13°	735.1	737.1	738.6	741.4	747.1	744.0	740.3	738.1	736.3	734.1	732.5
13.5°	727.6	729.8	732.0	735.6	741.6	738.5	734.0	731.5	729.1	726.3	724.3
14°	719.8	722.5	725.3	729.2	735.8	732.4	727.5	724.3	721.8	718.4	715.7
14.5°	711.9	715.1	718.4	722.9	729.8	726.3	720.6	717.3	714.0	710.2	707.1
15°	703.8	707.5	711.2	716.3	723.6	719.7	714.1	710.0	706.3	701.9	698.1
15.5°	695.5	699.7	704.0	709.3	717.2	713.1	706.9	702.5	698.4	693.5	689.2
16°	687.3	691.8	696.6	701.9	710.3	706.1	699.6	694.8	690.3	684.7	680.4
16.5°	679.0	683.9	689.0	694.8	703.3	698.9	692.0	686.9	682.0	676.2	671.7
17°	670.6	676.0	681.3	687.3	696.1	691.5	684.3	678.9	673.7	667.6	663.0
17.5°	662.0	667.8	673.3	679.6	688.6	683.9	676.6	670.6	665.3	659.0	654.4
18°	653.4	659.5	665.2	671.6	680.7	676.2	668.5	662.5	657.0	650.5	645.8
18.5°	644.8	651.1	657.1	663.5	672.8	668.1	660.5	654.4	648.5	641.9	637.4
19°	636.3	642.6	649.2	655.5	664.5	660.0	652.5	646.2	639.8	633.6	628.9
19.5°	627.9	634.3	641.1	647.2	656.4	651.8	644.5	637.7	631.5	625.3	621.3
20°	619.3	625.8	632.9	638.9	647.7	643.7	636.5	629.7	623.3	617.0	613.2
20.5°	610.8	617.5	624.6	630.6	639.3	635.4	628.2	621.8	614.7	608.7	605.1
21°	602.2	608.9	616.2	622.0	630.7	626.7	620.0	613.5	606.0	600.5	597.0
21.5°	593.7	600.4	607.9	613.3	621.4	617.7	611.8	605.2	597.4	592.2	588.8
22°	584.8	591.6	599.2	604.2	612.2	608.8	603.6	596.9	588.8	583.9	579.9

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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°	575.8	583.0	590.5	595.4	603.0	599.8	595.4	588.6	580.9	574.7	571.1
23°	566.1	573.8	581.7	585.6	593.8	590.8	587.2	579.5	571.5	564.9	561.8
23.5°	556.4	564.7	572.7	576.4	584.5	581.8	577.9	570.5	561.8	555.1	552.0
24°	546.2	555.1	563.3	566.2	573.8	571.8	568.8	561.2	551.7	545.1	541.4
24.5°	535.8	545.2	554.2	556.4	563.3	561.7	559.4	551.5	541.5	534.4	530.3
25°	524.9	535.0	544.4	545.7	552.5	551.4	549.7	541.8	531.2	523.5	518.9
25.5°	514.3	524.8	534.5	535.6	541.9	541.0	539.7	531.9	520.7	512.4	506.9
26°	503.4	514.1	524.2	524.8	531.3	530.4	529.6	521.6	510.2	501.1	494.3
26.5°	492.9	503.4	513.6	514.0	520.5	519.6	518.9	510.7	499.3	489.6	481.6
27°	481.6	492.4	502.1	503.2	509.6	508.6	507.9	499.8	488.6	477.9	469.2
27.5°	470.4	481.3	490.3	492.1	499.1	497.9	496.5	488.6	477.8	465.9	457.1
28°	458.8	470.1	477.9	480.9	488.3	487.0	484.3	477.0	466.5	454.0	445.2
28.5°	447.2	458.0	465.1	469.3	477.4	475.7	472.2	465.2	455.0	442.0	433.1
29°	435.0	446.4	452.2	457.7	466.4	464.6	459.5	452.9	443.3	430.2	421.7
29.5°	423.1	434.2	438.7	446.1	455.2	453.1	446.6	440.2	431.4	418.5	410.2
30°	410.4	421.6	425.7	434.0	443.4	441.4	433.1	427.1	419.3	406.8	398.7
30.5°	398.2	408.5	412.7	421.4	431.6	429.2	419.9	413.8	406.7	395.0	387.1
31°	385.9	395.8	400.2	408.9	419.7	417.1	407.1	400.6	394.4	383.5	375.2
31.5°	373.8	382.4	387.9	396.4	407.8	404.8	394.6	387.4	381.7	372.0	363.3
32°	361.5	369.4	376.1	383.7	395.8	392.3	382.6	374.6	369.6	360.6	351.2
32.5°	349.7	356.2	364.2	371.1	384.2	379.9	370.6	362.2	356.6	348.9	339.3
33°	337.8	344.0	352.8	358.7	372.5	367.2	359.4	350.0	343.8	337.6	327.1
33.5°	325.9	331.1	341.3	346.3	360.6	354.8	347.8	338.1	331.1	325.8	314.9
34°	314.1	319.4	329.9	334.5	348.6	342.6	336.5	326.5	318.9	314.1	303.5
34.5°	302.1	307.2	318.0	322.9	336.5	330.7	325.1	315.0	306.3	302.3	291.7
35°	288.2	295.5	306.3	311.5	324.5	318.9	313.7	303.9	294.3	290.1	280.8
35.5°	277.2	284.2	294.9	300.5	312.5	307.4	302.1	292.3	282.7	278.3	270.2
36°	266.1	272.9	283.7	289.9	300.2	296.1	290.6	280.8	271.5	266.7	259.7
36.5°	255.1	261.6	272.5	278.9	288.2	284.6	279.2	269.4	259.9	255.2	249.2
37°	244.0	250.3	261.3	267.9	276.3	273.6	267.8	258.1	248.9	244.0	239.1
37.5°	232.6	239.1	250.2	256.9	264.5	262.6	256.6	246.6	238.1	232.8	228.8
38°	221.4	228.8	239.0	245.8	253.1	251.8	246.1	235.7	227.5	222.3	218.7
38.5°	210.5	218.3	228.7	235.0	241.5	240.8	235.5	225.0	217.0	211.9	208.4
39°	200.2	208.4	218.7	224.5	230.5	230.6	225.5	214.6	206.9	201.8	198.6
39.5°	189.8	198.3	208.6	214.0	219.6	219.9	215.6	204.7	196.9	191.5	188.7
40°	179.8	188.7	198.7	203.6	208.9	209.7	205.7	195.2	187.0	181.6	179.1
40.5°	170.3	179.5	189.0	193.6	198.6	199.0	195.9	185.7	177.2	171.9	169.5
41°	161.0	170.2	179.3	183.8	188.3	189.1	186.2	176.5	167.7	162.5	160.4
41.5°	151.9	161.1	169.5	174.2	178.6	179.1	176.6	167.5	158.6	153.3	151.7
42°	143.3	152.7	160.5	165.0	169.0	169.5	167.0	158.9	149.8	144.2	143.3
42.5°	135.0	144.1	151.3	155.8	159.8	159.9	157.5	150.2	141.3	135.6	134.8
43°	126.9	135.7	142.5	146.5	150.7	150.7	148.4	141.9	133.1	127.3	126.6
43.5°	119.0	127.3	133.8	137.5	141.8	141.6	139.4	133.6	125.0	119.3	118.3
44°	111.6	119.3	125.8	128.7	133.1	133.0	130.9	125.7	117.4	111.8	110.7
44.5°	104.4	111.6	117.7	120.1	124.7	124.4	122.4	117.7	110.0	104.5	102.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	97.4	104.3	110.1	111.8	116.8	116.2	114.4	110.1	103.0	97.5	95.4
45.5°	90.6	96.9	102.7	103.6	108.7	108.0	106.7	102.7	96.1	90.7	88.2
46°	84.4	90.1	95.4	95.9	101.2	100.4	99.1	95.6	89.4	84.3	81.7
46.5°	78.3	83.3	88.2	88.5	93.6	92.7	92.0	88.6	83.2	78.8	75.9
47°	72.5	77.2	81.3	81.4	86.7	85.5	84.8	81.9	77.7	73.2	70.2
47.5°	66.9	71.0	74.6	74.6	80.4	79.2	78.6	76.1	72.1	67.7	64.4
48°	61.8	65.4	68.3	68.2	74.1	73.0	72.3	70.2	66.6	62.1	58.6
48.5°	56.7	59.8	62.2	62.2	67.7	66.7	66.1	64.3	61.1	56.6	53.9
49°	52.0	54.7	56.4	56.6	61.4	60.4	59.9	58.5	55.6	51.9	49.6
49.5°	47.6	49.8	50.8	51.3	55.1	54.2	53.7	52.6	50.9	47.5	45.6
50°	43.3	45.2	45.7	46.2	49.7	49.0	48.5	47.7	46.4	43.4	41.9
50.5°	39.2	40.6	40.9	41.4	44.5	44.0	43.6	43.1	42.1	39.6	38.4
51°	35.5	36.6	36.6	37.0	39.8	39.6	39.1	38.7	38.0	36.0	35.1
51.5°	31.9	32.7	32.5	32.9	35.3	35.3	34.9	34.6	34.2	32.6	32.0
52°	28.5	29.1	28.8	29.1	31.3	31.3	31.0	30.8	30.6	29.4	29.1
52.5°	25.7	26.2	25.9	26.2	27.4	27.6	27.4	27.2	27.1	26.3	26.2
53°	22.8	23.2	23.0	23.2	24.0	24.2	24.0	23.9	23.8	23.3	23.4
53.5°	19.9	20.3	20.0	20.2	20.8	21.0	20.9	20.8	20.9	20.6	20.7
54°	17.0	17.3	17.1	17.2	17.9	18.2	18.2	17.9	18.1	18.0	18.2
54.5°	14.7	14.4	14.2	14.2	15.5	15.7	15.7	15.4	15.6	15.6	15.9
55°	12.6	12.4	12.2	12.2	13.4	13.6	13.6	13.3	13.4	13.5	13.8
55.5°	10.7	10.5	10.3	10.3	11.4	11.6	11.6	11.4	11.5	11.6	11.8
56°	8.9	8.6	8.4	8.4	9.5	9.7	9.7	10.2	10.0	10.3	9.9
56.5°	7.2	6.9	6.8	6.8	8.4	8.5	8.5	8.9	8.6	9.0	8.7
57°	5.8	5.6	5.5	5.6	7.3	7.5	7.4	7.7	7.2	7.7	7.5
57.5°	4.8	4.7	4.6	4.7	6.2	6.4	6.3	6.4	5.8	6.4	6.4
58°	4.1	3.9	3.9	4.0	5.1	5.3	5.2	5.2	4.4	5.1	5.2
58.5°	3.5	3.4	3.4	3.5	4.0	4.2	4.1	3.9	3.8	3.8	4.0
59°	3.1	3.0	3.0	3.1	3.5	3.7	3.6	3.5	3.4	3.3	3.4
59.5°	2.8	2.7	2.7	2.8	3.2	3.3	3.2	3.1	3.0	2.9	3.0
60°	2.6	2.5	2.5	2.6	2.8	3.0	2.9	2.7	2.7	2.6	2.7
60.5°	2.3	2.2	2.2	2.3	2.6	2.7	2.6	2.5	2.4	2.4	2.4
61°	2.1	2.0	2.0	2.1	2.3	2.4	2.4	2.2	2.2	2.1	2.2
61.5°	1.9	1.8	1.8	1.9	2.1	2.2	2.2	2.0	2.0	1.9	2.0
62°	1.7	1.7	1.7	1.7	2.0	2.0	2.0	1.9	1.8	1.8	1.8
62.5°	1.6	1.5	1.5	1.6	1.8	1.9	1.8	1.7	1.6	1.6	1.7
63°	1.4	1.4	1.4	1.5	1.7	1.7	1.7	1.6	1.5	1.5	1.5
63.5°	1.3	1.3	1.3	1.4	1.5	1.6	1.6	1.5	1.4	1.4	1.4
64°	1.2	1.2	1.2	1.3	1.4	1.5	1.4	1.4	1.3	1.3	1.3
64.5°	1.1	1.1	1.1	1.2	1.3	1.4	1.3	1.3	1.2	1.2	1.2
65°	1.0	1.0	1.0	1.1	1.2	1.3	1.2	1.2	1.1	1.1	1.1
65.5°	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.1	1.0	1.0	1.0
66°	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.0	1.0	0.9	1.0
66.5°	0.8	0.8	0.8	0.9	1.0	1.0	1.0	0.9	0.9	0.9	0.9
67°	0.8	0.8	0.8	0.8	0.9	1.0	0.9	0.9	0.8	0.8	0.8

TEST NUMBER: P1590541

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-5000K

CANDELA DISTRIBUTION (continued):

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

TEST NUMBER: P1590541

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590541

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
128°	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
128.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
129°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
129.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
130°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
130.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
131°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
131.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
132°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
132.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
133°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
133.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
134°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
134.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TEST NUMBER: P1590541

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
135.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
136°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
136.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
137°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
137.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
138°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
138.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
139°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
139.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
140°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
140.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
141°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
141.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
142°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
142.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
143°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
143.5°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
144°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
144.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
145°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
145.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
146°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
146.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
147°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
147.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
148°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
148.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
149°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
149.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
150°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
150.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
151°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
151.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
152°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
152.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3
153°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4
153.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
154°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
154.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
155°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
155.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
156°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
156.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
157°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4

TEST NUMBER: P1590541

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
158°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
158.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
159°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
159.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
160°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
160.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
161°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
161.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
162°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
162.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
163°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
163.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
164°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
164.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
165°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
165.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
166°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
166.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
167°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
167.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
168°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
168.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
169°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
169.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
170°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
170.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
172°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
172.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
173°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
173.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
174°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
174.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175.5°	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4
176°	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.3
176.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.3
177°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
177.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
178°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
178.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
179°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
179.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P1590541
CATALOG NUMBER: HCDLS510CSD4TRMW-ME-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590541

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	813.1	813.1	813.1	813.1	813.1	813.1
0.5°	813.2	812.6	812.9	813.2	813.1	813.2
1°	813.0	812.4	812.7	812.8	812.7	812.9
1.5°	812.6	812.0	812.4	812.3	812.2	812.5
2°	812.2	811.6	811.7	811.5	811.4	811.9
2.5°	811.4	811.1	811.1	810.6	810.5	811.2
3°	810.7	810.6	810.4	809.4	809.1	810.4
3.5°	809.6	809.7	809.3	808.0	807.5	809.1
4°	808.4	808.7	808.1	806.2	805.7	807.7
4.5°	806.7	807.5	806.7	804.4	803.7	805.9
5°	805.0	806.0	805.1	802.2	801.4	804.0
5.5°	803.2	804.3	803.3	800.1	799.0	801.7
6°	801.2	802.4	801.4	797.9	796.5	799.5
6.5°	798.9	800.3	799.2	795.6	794.1	796.8
7°	796.5	797.7	796.8	793.2	791.4	794.0
7.5°	793.8	794.9	794.0	790.8	788.8	791.0
8°	790.8	791.6	790.9	787.8	786.0	787.9
8.5°	787.7	787.9	787.3	784.8	783.0	784.3
9°	783.9	783.5	783.3	781.3	779.6	780.5
9.5°	779.8	778.6	778.7	777.4	775.9	776.3
10°	774.9	772.8	773.3	772.7	771.8	772.0
10.5°	769.3	766.5	767.1	767.7	767.3	767.1
11°	763.1	759.3	760.3	761.7	762.0	761.7
11.5°	755.8	751.2	752.5	754.9	756.1	755.8
12°	748.0	742.6	744.2	747.2	749.2	749.1
12.5°	739.6	734.0	735.6	739.3	741.8	742.3
13°	731.1	724.9	726.6	730.8	734.3	735.1
13.5°	722.3	716.1	717.6	722.1	726.3	727.6
14°	713.4	706.7	708.4	713.2	717.8	719.8
14.5°	704.2	697.6	699.2	704.3	709.3	711.9
15°	695.1	688.1	689.9	695.1	700.7	703.8
15.5°	686.1	679.0	680.8	686.4	691.8	695.5
16°	677.3	670.1	672.0	677.4	683.0	687.3
16.5°	668.4	661.5	663.3	668.8	674.7	679.0
17°	659.8	652.6	654.4	660.2	665.9	670.6
17.5°	651.3	643.9	646.0	651.5	657.5	662.0
18°	642.8	635.1	637.2	642.8	648.6	653.4
18.5°	634.1	626.4	628.6	634.4	640.1	644.8
19°	625.8	617.9	620.3	625.9	631.3	636.3
19.5°	617.8	609.1	611.9	617.5	622.9	627.9
20°	609.8	600.9	603.8	609.2	614.2	619.3
20.5°	601.8	592.3	595.3	601.1	605.8	610.8
21°	593.7	584.2	587.1	592.5	597.2	602.2
21.5°	585.7	575.7	578.8	584.1	588.5	593.7
22°	577.5	567.4	570.5	575.6	580.1	584.8

TEST NUMBER: P1590541

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	568.9	558.7	561.8	567.1	571.1	575.8
23°	559.6	549.5	552.4	557.9	561.5	566.1
23.5°	549.6	539.5	542.6	548.1	551.9	556.4
24°	539.3	528.8	532.2	537.6	541.5	546.2
24.5°	528.7	517.0	521.4	526.4	530.6	535.8
25°	517.7	505.9	510.0	514.9	519.1	524.9
25.5°	506.0	494.6	498.5	502.8	507.7	514.3
26°	494.4	483.3	486.9	490.4	495.8	503.4
26.5°	482.3	471.6	475.1	478.0	483.7	492.9
27°	469.8	460.5	463.1	465.3	471.1	481.6
27.5°	457.3	449.1	450.7	452.7	458.7	470.4
28°	444.3	437.4	438.3	440.2	447.0	458.8
28.5°	431.6	425.6	426.2	427.9	435.3	447.2
29°	419.3	413.7	414.1	415.8	423.7	435.0
29.5°	407.1	401.3	401.9	404.0	412.4	423.1
30°	395.0	388.8	389.3	392.3	401.2	410.4
30.5°	382.8	375.8	376.9	380.6	389.7	398.2
31°	371.0	363.4	364.4	368.8	378.3	385.9
31.5°	359.2	350.7	352.2	357.1	366.6	373.8
32°	347.5	338.3	340.1	345.3	354.6	361.5
32.5°	336.0	326.2	328.2	333.5	342.6	349.7
33°	324.3	314.3	316.6	321.7	330.5	337.8
33.5°	312.6	302.1	305.3	309.6	318.2	325.9
34°	301.1	288.7	294.5	298.1	306.0	314.1
34.5°	289.6	278.0	283.4	287.2	294.2	302.1
35°	278.5	267.2	272.3	276.2	283.0	288.2
35.5°	267.3	256.5	261.1	265.3	271.8	277.2
36°	256.6	245.7	250.0	254.4	260.7	266.1
36.5°	245.9	235.3	238.9	243.4	249.5	255.1
37°	235.3	225.1	228.3	233.1	238.4	244.0
37.5°	224.9	215.1	217.8	222.9	228.0	232.6
38°	214.7	205.5	207.5	213.1	217.7	221.4
38.5°	204.8	196.1	197.6	203.1	207.4	210.5
39°	195.2	187.0	188.5	193.5	197.4	200.2
39.5°	185.7	177.8	179.3	183.6	187.3	189.8
40°	176.2	168.8	170.2	174.2	177.4	179.8
40.5°	167.2	160.3	161.5	164.7	167.4	170.3
41°	158.4	152.0	153.2	155.6	158.0	161.0
41.5°	149.9	144.0	145.0	146.8	148.6	151.9
42°	141.5	136.3	137.1	138.3	139.8	143.3
42.5°	133.3	128.9	129.4	129.7	131.1	135.0
43°	125.5	121.8	121.8	122.0	123.0	126.9
43.5°	118.0	114.8	114.6	113.9	115.0	119.0
44°	110.9	108.0	107.7	106.4	107.4	111.6
44.5°	103.9	101.5	101.1	98.9	99.9	104.4

TEST NUMBER: P1590541

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	97.2	95.2	94.6	92.0	92.8	97.4
45.5°	90.8	89.1	88.5	85.2	86.1	90.6
46°	84.6	83.4	82.6	78.8	79.7	84.4
46.5°	78.9	77.7	77.0	72.7	73.5	78.3
47°	73.5	72.3	71.5	67.2	67.8	72.5
47.5°	68.3	67.1	66.3	61.9	62.4	66.9
48°	63.0	62.1	61.3	57.1	57.5	61.8
48.5°	57.7	57.5	56.6	52.6	52.9	56.7
49°	53.0	53.0	52.1	48.5	48.5	52.0
49.5°	48.6	48.6	47.9	44.7	44.6	47.6
50°	44.5	44.5	43.7	41.1	40.9	43.3
50.5°	40.6	40.6	39.9	37.6	37.5	39.2
51°	37.0	36.8	36.3	34.4	34.1	35.5
51.5°	33.6	33.2	32.8	31.4	31.1	31.9
52°	30.3	29.9	29.5	28.4	28.4	28.5
52.5°	27.2	27.0	26.8	25.7	25.7	25.7
53°	24.2	24.2	24.1	23.1	22.9	22.8
53.5°	21.5	21.4	21.3	20.4	20.2	19.9
54°	18.8	18.6	18.6	17.8	17.4	17.0
54.5°	16.4	15.7	15.8	15.5	15.1	14.7
55°	14.2	13.6	13.7	13.5	13.0	12.6
55.5°	12.3	11.7	11.8	11.6	11.3	10.7
56°	10.4	9.8	9.9	9.8	9.4	8.9
56.5°	9.1	8.1	8.2	8.0	7.7	7.2
57°	7.9	6.6	6.7	6.6	6.2	5.8
57.5°	6.7	5.5	5.7	5.5	5.2	4.8
58°	5.5	4.7	4.8	4.7	4.4	4.1
58.5°	4.2	4.1	4.2	4.1	3.8	3.5
59°	3.7	3.6	3.7	3.6	3.3	3.1
59.5°	3.2	3.2	3.3	3.2	2.9	2.8
60°	2.9	2.9	2.9	2.9	2.7	2.6
60.5°	2.6	2.7	2.7	2.7	2.5	2.3
61°	2.3	2.5	2.5	2.5	2.2	2.1
61.5°	2.1	2.3	2.3	2.2	2.0	1.9
62°	2.0	2.0	2.1	2.0	1.8	1.7
62.5°	1.8	1.9	1.9	1.8	1.7	1.6
63°	1.6	1.7	1.8	1.7	1.5	1.4
63.5°	1.5	1.6	1.6	1.6	1.4	1.3
64°	1.4	1.5	1.5	1.4	1.3	1.2
64.5°	1.3	1.4	1.4	1.3	1.2	1.1
65°	1.2	1.3	1.3	1.2	1.1	1.0
65.5°	1.1	1.2	1.2	1.2	1.0	1.0
66°	1.0	1.1	1.1	1.1	1.0	0.9
66.5°	1.0	1.0	1.1	1.0	0.9	0.8
67°	0.9	0.9	1.0	0.9	0.8	0.8

TEST NUMBER: P1590541

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.8	0.9	0.9	0.9	0.8	0.7
68°	0.8	0.8	0.8	0.8	0.7	0.7
68.5°	0.7	0.8	0.8	0.7	0.7	0.6
69°	0.7	0.7	0.7	0.7	0.6	0.6
69.5°	0.6	0.7	0.7	0.6	0.6	0.5
70°	0.6	0.6	0.6	0.6	0.5	0.5
70.5°	0.5	0.6	0.6	0.6	0.5	0.5
71°	0.5	0.5	0.5	0.5	0.5	0.4
71.5°	0.5	0.5	0.5	0.5	0.4	0.4
72°	0.4	0.5	0.5	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4	0.3
73°	0.4	0.4	0.4	0.4	0.3	0.3
73.5°	0.3	0.4	0.4	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.2
75°	0.3	0.3	0.3	0.3	0.2	0.2
75.5°	0.2	0.3	0.3	0.2	0.2	0.2
76°	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.2	0.2	0.2	0.1
77.5°	0.2	0.2	0.2	0.2	0.1	0.1
78°	0.1	0.2	0.2	0.2	0.1	0.1
78.5°	0.1	0.1	0.1	0.1	0.1	0.1
79°	0.1	0.1	0.1	0.1	0.1	0.1
79.5°	0.1	0.1	0.1	0.1	0.1	0.1
80°	0.1	0.1	0.1	0.1	0.1	0.1
80.5°	0.1	0.1	0.1	0.1	0.1	0.1
81°	0.1	0.1	0.1	0.1	0.1	0.0
81.5°	0.1	0.1	0.1	0.1	0.0	0.0
82°	0.0	0.0	0.1	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0
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

TEST NUMBER: P1590541

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-5000K

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
90.5°	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0
98.5°	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0
99.5°	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0
100.5°	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0
101.5°	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0
103.5°	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0
104.5°	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0
105.5°	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0
106.5°	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0
109.5°	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0
110.5°	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0
111.5°	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590541

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0
115.5°	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0
121.5°	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0
123.5°	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0
124.5°	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0
125.5°	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0
126.5°	0.0	0.1	0.1	0.1	0.0	0.0
127°	0.1	0.1	0.1	0.1	0.1	0.0
127.5°	0.1	0.1	0.1	0.1	0.1	0.1
128°	0.1	0.1	0.1	0.1	0.1	0.1
128.5°	0.1	0.1	0.1	0.1	0.1	0.1
129°	0.1	0.1	0.1	0.1	0.1	0.1
129.5°	0.1	0.1	0.1	0.1	0.1	0.1
130°	0.1	0.1	0.1	0.1	0.1	0.1
130.5°	0.1	0.1	0.1	0.1	0.1	0.1
131°	0.1	0.1	0.1	0.1	0.1	0.1
131.5°	0.1	0.1	0.1	0.1	0.1	0.1
132°	0.1	0.1	0.1	0.1	0.1	0.1
132.5°	0.1	0.1	0.1	0.1	0.1	0.1
133°	0.1	0.1	0.1	0.1	0.1	0.1
133.5°	0.1	0.1	0.1	0.1	0.1	0.1
134°	0.1	0.1	0.1	0.1	0.1	0.1
134.5°	0.1	0.1	0.1	0.1	0.1	0.1

TEST NUMBER: P1590541

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.1	0.1	0.1	0.1	0.1	0.1
135.5°	0.1	0.1	0.1	0.1	0.1	0.1
136°	0.1	0.1	0.1	0.1	0.1	0.1
136.5°	0.1	0.1	0.1	0.1	0.1	0.1
137°	0.2	0.1	0.1	0.1	0.1	0.1
137.5°	0.2	0.1	0.1	0.1	0.1	0.1
138°	0.2	0.1	0.1	0.1	0.1	0.1
138.5°	0.2	0.1	0.1	0.1	0.1	0.1
139°	0.2	0.1	0.1	0.1	0.1	0.1
139.5°	0.2	0.1	0.1	0.1	0.1	0.1
140°	0.2	0.1	0.1	0.1	0.1	0.1
140.5°	0.2	0.1	0.1	0.1	0.1	0.1
141°	0.2	0.1	0.1	0.1	0.1	0.1
141.5°	0.2	0.1	0.1	0.1	0.1	0.1
142°	0.2	0.1	0.1	0.1	0.1	0.1
142.5°	0.2	0.1	0.1	0.1	0.1	0.1
143°	0.2	0.2	0.2	0.2	0.1	0.1
143.5°	0.2	0.2	0.2	0.2	0.2	0.2
144°	0.2	0.2	0.2	0.2	0.2	0.2
144.5°	0.3	0.2	0.2	0.2	0.2	0.2
145°	0.3	0.2	0.2	0.2	0.2	0.2
145.5°	0.3	0.2	0.2	0.2	0.2	0.2
146°	0.3	0.2	0.2	0.2	0.2	0.2
146.5°	0.3	0.2	0.2	0.2	0.2	0.2
147°	0.3	0.2	0.2	0.2	0.2	0.2
147.5°	0.3	0.2	0.2	0.2	0.2	0.2
148°	0.3	0.2	0.2	0.2	0.2	0.2
148.5°	0.3	0.2	0.2	0.2	0.2	0.2
149°	0.3	0.2	0.2	0.2	0.2	0.2
149.5°	0.3	0.2	0.2	0.2	0.2	0.2
150°	0.3	0.2	0.2	0.2	0.2	0.2
150.5°	0.3	0.2	0.2	0.2	0.2	0.2
151°	0.3	0.2	0.2	0.2	0.2	0.2
151.5°	0.3	0.2	0.2	0.2	0.2	0.2
152°	0.3	0.2	0.2	0.2	0.2	0.2
152.5°	0.3	0.2	0.2	0.2	0.2	0.2
153°	0.4	0.2	0.2	0.2	0.2	0.2
153.5°	0.4	0.2	0.2	0.2	0.2	0.2
154°	0.4	0.2	0.2	0.2	0.2	0.2
154.5°	0.4	0.2	0.2	0.2	0.2	0.2
155°	0.4	0.2	0.2	0.2	0.2	0.2
155.5°	0.4	0.2	0.2	0.2	0.2	0.2
156°	0.4	0.2	0.2	0.2	0.2	0.2
156.5°	0.4	0.2	0.2	0.2	0.2	0.2
157°	0.4	0.2	0.2	0.2	0.2	0.2

TEST NUMBER: P1590541

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.4	0.2	0.2	0.2	0.2	0.2
158°	0.4	0.2	0.2	0.2	0.2	0.2
158.5°	0.4	0.2	0.2	0.2	0.2	0.2
159°	0.4	0.2	0.2	0.2	0.2	0.2
159.5°	0.4	0.2	0.2	0.2	0.2	0.2
160°	0.4	0.2	0.2	0.2	0.2	0.2
160.5°	0.4	0.2	0.2	0.2	0.2	0.2
161°	0.4	0.2	0.2	0.2	0.2	0.2
161.5°	0.4	0.2	0.2	0.2	0.2	0.2
162°	0.4	0.2	0.2	0.2	0.2	0.2
162.5°	0.4	0.2	0.2	0.2	0.2	0.2
163°	0.4	0.2	0.2	0.2	0.2	0.2
163.5°	0.4	0.2	0.2	0.2	0.2	0.2
164°	0.4	0.2	0.2	0.2	0.2	0.2
164.5°	0.4	0.2	0.2	0.2	0.2	0.2
165°	0.4	0.2	0.2	0.2	0.2	0.2
165.5°	0.4	0.2	0.2	0.2	0.2	0.2
166°	0.4	0.2	0.2	0.2	0.2	0.2
166.5°	0.4	0.2	0.2	0.2	0.2	0.2
167°	0.4	0.2	0.2	0.2	0.2	0.2
167.5°	0.4	0.2	0.2	0.2	0.2	0.2
168°	0.4	0.2	0.2	0.2	0.2	0.2
168.5°	0.4	0.2	0.2	0.2	0.2	0.2
169°	0.4	0.2	0.2	0.2	0.2	0.2
169.5°	0.4	0.2	0.2	0.2	0.2	0.2
170°	0.4	0.2	0.2	0.2	0.2	0.2
170.5°	0.4	0.2	0.2	0.2	0.2	0.2
171°	0.4	0.2	0.2	0.2	0.2	0.2
171.5°	0.4	0.2	0.2	0.2	0.2	0.2
172°	0.4	0.2	0.2	0.2	0.2	0.2
172.5°	0.4	0.2	0.2	0.2	0.2	0.2
173°	0.4	0.2	0.2	0.2	0.2	0.2
173.5°	0.4	0.2	0.2	0.2	0.2	0.2
174°	0.4	0.2	0.2	0.2	0.2	0.2
174.5°	0.4	0.2	0.2	0.2	0.2	0.2
175°	0.4	0.2	0.2	0.2	0.2	0.2
175.5°	0.4	0.2	0.2	0.2	0.2	0.2
176°	0.3	0.2	0.2	0.2	0.2	0.2
176.5°	0.3	0.2	0.2	0.2	0.2	0.2
177°	0.3	0.3	0.3	0.3	0.3	0.3
177.5°	0.3	0.3	0.3	0.3	0.3	0.3
178°	0.3	0.3	0.3	0.3	0.3	0.3
178.5°	0.3	0.3	0.3	0.3	0.3	0.3
179°	0.3	0.3	0.3	0.3	0.3	0.3
179.5°	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P1590541

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.3	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590541

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-5000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	1.6	2.6	1.9	2.9	3.2	2.6	3.6	2.9	3.9	4.2
	3H	1.5	2.4	1.9	2.7	3.1	2.5	3.4	2.9	3.7	4.1
	4H	1.4	2.3	1.8	2.6	3.0	2.4	3.3	2.8	3.6	4.0
	6H	1.3	2.1	1.7	2.5	2.9	2.3	3.1	2.7	3.5	3.9
	8H	1.3	2.0	1.7	2.4	2.8	2.3	3.0	2.7	3.4	3.8
	12H	1.2	1.9	1.6	2.3	2.7	2.2	2.9	2.6	3.3	3.7
4H	2H	1.4	2.2	1.8	2.6	3.0	2.3	3.2	2.8	3.5	3.9
	3H	1.3	2.0	1.7	2.4	2.8	2.3	3.0	2.7	3.4	3.8
	4H	1.2	1.8	1.7	2.3	2.7	2.2	2.8	2.7	3.2	3.7
	6H	1.1	1.7	1.6	2.1	2.6	2.1	2.6	2.6	3.1	3.6
	8H	1.1	1.6	1.6	2.0	2.5	2.1	2.5	2.5	3.0	3.5
	12H	1.0	1.4	1.5	1.9	2.4	2.0	2.4	2.5	2.9	3.4
8H	4H	1.1	1.6	1.6	2.0	2.5	2.1	2.5	2.5	3.0	3.5
	6H	1.0	1.4	1.5	1.9	2.4	1.9	2.3	2.5	2.8	3.3
	8H	0.9	1.2	1.4	1.8	2.3	1.9	2.2	2.4	2.7	3.2
	12H	0.8	1.1	1.4	1.6	2.2	1.8	2.1	2.3	2.6	3.2
12H	4H	1.0	1.4	1.5	1.9	2.4	2.0	2.4	2.5	2.9	3.4
	6H	0.9	1.3	1.4	1.7	2.3	1.9	2.2	2.4	2.7	3.2
	8H	0.8	1.1	1.4	1.6	2.2	1.8	2.1	2.3	2.6	3.2

(END OF REPORT)