

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: P1590538

Luminaire Tested: HCDLS510CSD4TRMW-ME-3000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590538
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-3000K
Description: 4" Selectable Round Trim+Matte White (paintable) 700 Lumens 3000K

Light Source:
Ballast/Driver: -

Summary

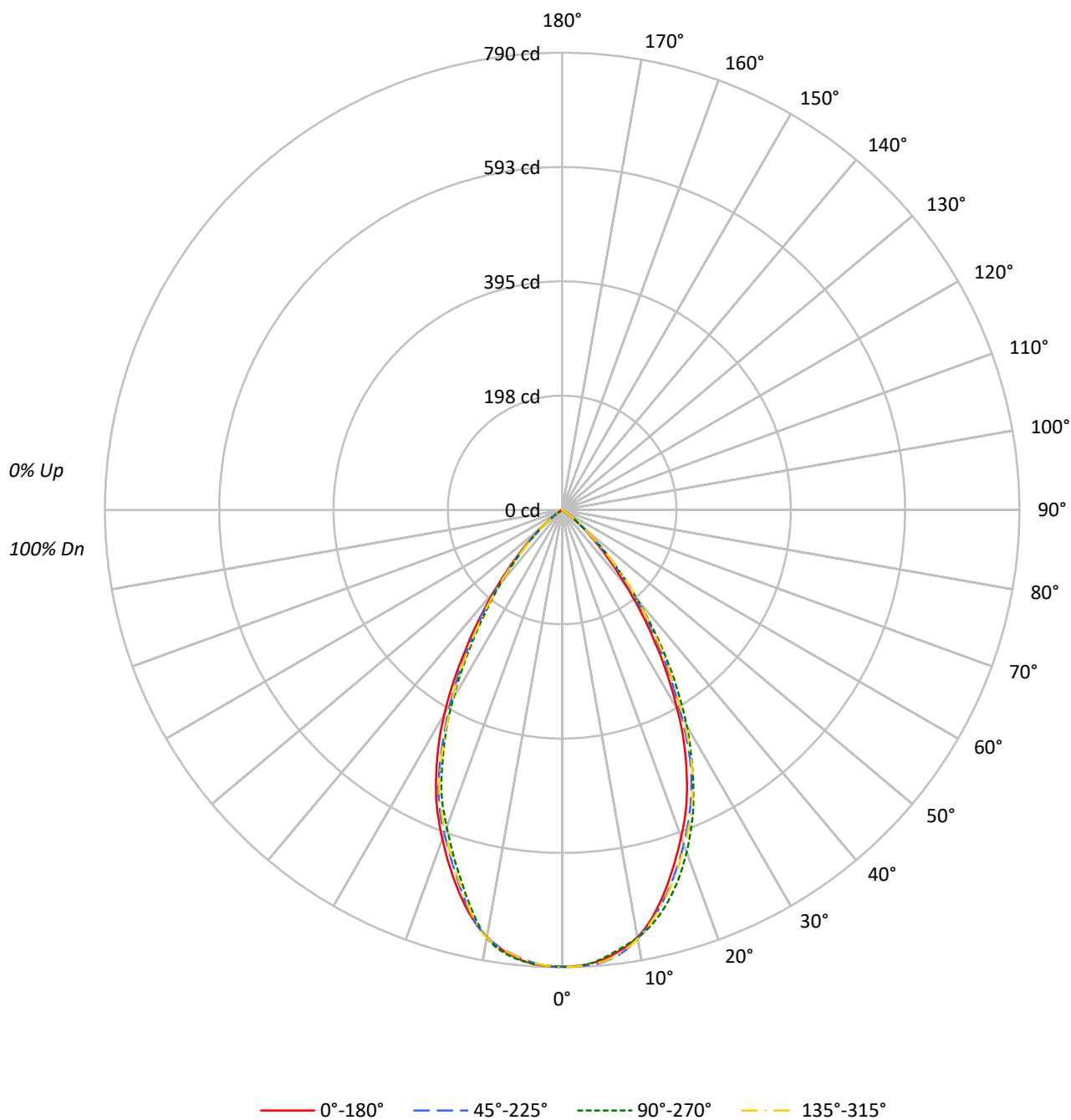
Lumens per Lamp: N/A
Luminaire Lumens: 771.9 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	97357	97357	97357	97357
5°	96639	96429	96750	96874
10°	93861	93986	93849	93961
15°	87255	89707	87549	85301
20°	78915	82537	79426	76565
25°	69355	72989	70185	66837
30°	56743	61301	57968	53752
35°	42132	47432	43020	39060
40°	28097	32654	29224	26374
45°	16484	19781	17444	16118
50°	8059	9249	8635	8290
55°	2624	2796	2796	2839
60°	617	691	641	715
65°	292	350	321	350
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: 19781 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	9.5
10°-20°	191.1	24.8
20°-30°	233.5	30.3
30°-40°	177.9	23.0
40°-50°	79.3	10.3
50°-60°	14.4	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°	498.3	64.6
0°-40°	676.2	87.6
0°-60°	769.9	99.7
0°-90°	771.4	99.9
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	771.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	789	789	789	789	789	
5°	780	779	781	782	780	74
15°	683	702	686	668	683	191
25°	510	536	516	491	510	232
35°	280	315	286	259	280	175
45°	94	113	100	92	94	75
55°	12	13	13	13	12	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°	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3
0.5°	789.5	789.2	789.3	789.5	789.2	789.3	789.6	789.5	789.5	789.2	789.2
1°	789.1	789.1	789.3	789.5	789.2	789.3	789.4	789.4	789.2	788.9	788.9
1.5°	788.7	788.8	789.1	789.2	788.9	789.1	789.2	789.1	788.9	788.5	788.5
2°	788.1	788.4	788.9	788.8	788.4	788.6	788.9	788.8	788.4	787.7	787.9
2.5°	787.5	788.1	788.6	788.2	787.7	787.9	788.6	788.4	787.7	786.9	787.0
3°	786.7	787.7	788.1	787.4	786.7	787.1	787.9	787.9	786.9	785.7	785.9
3.5°	785.4	787.2	787.5	786.3	785.3	786.0	787.2	787.2	786.0	784.3	784.4
4°	784.1	786.6	787.0	785.0	783.4	784.5	786.4	786.6	784.7	782.5	782.7
4.5°	782.3	785.6	786.1	783.2	781.2	782.6	785.2	785.6	783.2	780.4	780.7
5°	780.5	784.4	784.7	781.1	778.8	780.3	783.8	784.5	781.4	778.1	778.6
5.5°	778.3	782.8	783.2	778.9	776.2	778.0	782.0	782.9	779.4	775.6	776.4
6°	776.1	780.9	781.3	776.3	773.4	775.3	780.1	781.1	777.1	773.0	773.9
6.5°	773.5	778.7	779.1	773.7	770.5	772.6	777.8	779.0	774.4	770.4	771.5
7°	770.8	775.9	776.4	771.0	767.8	769.8	775.2	776.4	771.6	767.6	769.0
7.5°	767.8	772.9	773.4	768.0	765.0	766.9	772.3	773.5	768.7	764.7	766.3
8°	764.9	769.6	769.9	764.7	762.2	763.8	768.9	769.9	765.3	761.8	763.5
8.5°	761.4	765.8	766.1	761.3	759.3	760.8	765.2	766.2	761.7	758.5	760.5
9°	757.7	761.5	761.8	757.8	756.4	757.4	761.0	761.9	757.9	755.2	757.2
9.5°	753.6	756.9	757.2	754.0	753.5	753.9	756.7	757.2	753.9	751.5	753.6
10°	749.4	752.0	752.2	749.9	750.4	750.1	751.9	752.2	749.3	747.7	749.5
10.5°	744.7	746.6	746.9	745.5	747.0	746.2	746.9	746.8	744.3	743.0	744.6
11°	739.4	741.0	741.3	740.9	743.2	741.9	741.6	741.3	739.2	738.2	739.3
11.5°	733.7	734.9	735.6	736.0	739.2	737.5	736.1	735.5	733.7	732.8	733.3
12°	727.2	728.6	729.6	730.6	735.0	732.7	730.5	729.4	727.8	726.5	726.4
12.5°	720.6	722.1	723.3	725.4	730.1	727.4	724.7	723.2	721.1	719.7	718.6
13°	713.6	715.5	717.0	719.7	725.3	722.2	718.7	716.5	714.8	712.6	711.1
13.5°	706.3	708.5	710.6	714.0	719.9	716.9	712.5	710.1	707.8	705.1	703.1
14°	698.7	701.4	704.1	707.9	714.3	711.0	706.2	703.2	700.7	697.4	694.8
14.5°	691.1	694.2	697.4	701.8	708.4	705.0	699.6	696.3	693.1	689.4	686.4
15°	683.3	686.8	690.4	695.3	702.5	698.7	693.2	689.3	685.6	681.4	677.7
15.5°	675.2	679.3	683.5	688.6	696.2	692.2	686.2	682.0	678.0	673.2	669.1
16°	667.2	671.5	676.2	681.4	689.5	685.4	679.2	674.5	670.1	664.7	660.5
16.5°	659.2	663.9	668.9	674.5	682.8	678.4	671.7	666.8	662.1	656.4	652.1
17°	651.0	656.2	661.4	667.2	675.7	671.2	664.3	659.1	654.0	648.1	643.7
17.5°	642.6	648.3	653.6	659.8	668.5	663.9	656.8	651.0	645.8	639.7	635.2
18°	634.3	640.2	645.8	652.0	660.8	656.4	648.9	643.1	637.8	631.5	626.9
18.5°	626.0	632.0	637.9	644.1	653.1	648.6	641.2	635.3	629.6	623.1	618.7
19°	617.7	623.8	630.2	636.3	645.0	640.7	633.4	627.3	621.1	615.1	610.5
19.5°	609.5	615.8	622.3	628.3	637.2	632.8	625.7	619.1	613.0	607.0	603.2
20°	601.2	607.5	614.4	620.3	628.8	624.9	617.9	611.3	605.1	599.0	595.3
20.5°	592.9	599.5	606.3	612.2	620.6	616.8	609.8	603.6	596.7	590.9	587.4
21°	584.6	591.1	598.1	603.8	612.2	608.4	601.9	595.5	588.3	582.9	579.5
21.5°	576.4	582.8	590.1	595.4	603.3	599.7	593.9	587.5	579.9	574.8	571.6
22°	567.7	574.3	581.6	586.5	594.3	591.0	585.9	579.5	571.6	566.8	562.9

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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°	559.0	566.0	573.2	578.0	585.4	582.2	578.0	571.4	563.9	557.9	554.4
23°	549.6	557.0	564.7	568.5	576.4	573.5	570.0	562.5	554.8	548.4	545.4
23.5°	540.1	548.1	556.0	559.5	567.4	564.8	561.0	553.8	545.3	538.9	535.9
24°	530.2	538.9	546.8	549.6	557.0	555.0	552.2	544.8	535.6	529.2	525.6
24.5°	520.1	529.3	538.0	540.1	546.9	545.3	543.0	535.4	525.7	518.8	514.8
25°	509.6	519.4	528.5	529.7	536.3	535.3	533.6	526.0	515.7	508.2	503.7
25.5°	499.2	509.5	518.9	519.9	526.1	525.1	523.9	516.3	505.5	497.4	492.0
26°	488.7	499.1	508.9	509.5	515.7	514.9	514.1	506.3	495.3	486.5	479.8
26.5°	478.5	488.6	498.6	499.0	505.2	504.4	503.7	495.8	484.7	475.3	467.5
27°	467.5	478.0	487.5	488.5	494.7	493.8	493.0	485.1	474.3	463.9	455.5
27.5°	456.7	467.3	475.9	477.7	484.5	483.4	482.0	474.3	463.8	452.2	443.8
28°	445.4	456.4	464.0	466.8	474.0	472.8	470.1	463.1	452.8	440.8	432.2
28.5°	434.2	444.6	451.5	455.6	463.5	461.8	458.4	451.6	441.7	429.0	420.5
29°	422.3	433.3	439.0	444.3	452.8	451.0	446.0	439.6	430.4	417.6	409.4
29.5°	410.7	421.5	425.9	433.0	441.9	439.8	433.5	427.3	418.8	406.3	398.3
30°	398.4	409.3	413.2	421.3	430.4	428.5	420.4	414.6	407.0	394.9	387.1
30.5°	386.5	396.5	400.7	409.1	419.0	416.6	407.6	401.7	394.8	383.4	375.8
31°	374.6	384.2	388.5	397.0	407.4	404.9	395.2	388.9	382.9	372.3	364.2
31.5°	362.8	371.2	376.6	384.8	395.9	393.0	383.1	376.0	370.5	361.1	352.7
32°	350.9	358.6	365.1	372.4	384.2	380.8	371.4	363.7	358.8	350.1	341.0
32.5°	339.5	345.8	353.6	360.3	372.9	368.8	359.8	351.6	346.1	338.7	329.4
33°	327.9	334.0	342.5	348.2	361.6	356.5	348.9	339.7	333.8	327.8	317.6
33.5°	316.3	321.4	331.3	336.2	350.1	344.4	337.7	328.2	321.4	316.3	305.7
34°	304.9	310.1	320.2	324.8	338.4	332.6	326.7	316.9	309.6	305.0	294.6
34.5°	293.3	298.2	308.7	313.4	326.6	321.0	315.6	305.8	297.3	293.4	283.2
35°	279.8	286.8	297.3	302.4	315.0	309.6	304.5	295.0	285.7	281.6	272.6
35.5°	269.1	275.9	286.3	291.7	303.3	298.4	293.3	283.8	274.4	270.1	262.3
36°	258.4	264.9	275.4	281.4	291.4	287.4	282.1	272.6	263.6	258.9	252.1
36.5°	247.6	254.0	264.6	270.7	279.8	276.3	271.0	261.5	252.3	247.7	241.9
37°	236.9	243.0	253.7	260.0	268.2	265.6	260.0	250.5	241.6	236.8	232.1
37.5°	225.8	232.1	242.8	249.3	256.8	254.9	249.1	239.4	231.2	226.0	222.1
38°	214.9	222.1	232.0	238.7	245.7	244.4	238.9	228.8	220.9	215.8	212.3
38.5°	204.4	211.9	222.0	228.1	234.5	233.8	228.6	218.5	210.7	205.7	202.3
39°	194.3	202.3	212.3	217.9	223.7	223.8	218.9	208.4	200.9	195.9	192.8
39.5°	184.3	192.5	202.5	207.7	213.1	213.4	209.3	198.7	191.1	185.9	183.2
40°	174.5	183.2	192.8	197.7	202.8	203.6	199.7	189.5	181.5	176.3	173.8
40.5°	165.3	174.3	183.5	187.9	192.8	193.2	190.1	180.2	172.0	166.9	164.6
41°	156.3	165.2	174.1	178.4	182.8	183.6	180.7	171.3	162.8	157.8	155.8
41.5°	147.4	156.4	164.6	169.1	173.4	173.8	171.4	162.6	154.0	148.8	147.3
42°	139.1	148.2	155.8	160.2	164.1	164.6	162.1	154.3	145.4	140.0	139.1
42.5°	131.1	139.9	146.9	151.2	155.1	155.2	152.9	145.8	137.1	131.6	130.8
43°	123.2	131.8	138.3	142.2	146.3	146.3	144.0	137.8	129.2	123.6	122.9
43.5°	115.5	123.6	129.9	133.5	137.6	137.4	135.4	129.7	121.3	115.8	114.8
44°	108.4	115.8	122.1	124.9	129.2	129.1	127.1	122.0	114.0	108.5	107.5
44.5°	101.3	108.3	114.3	116.6	121.1	120.7	118.9	114.2	106.8	101.5	99.8

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CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	94.5	101.2	106.9	108.5	113.4	112.8	111.1	106.9	100.0	94.6	92.6
45.5°	88.0	94.1	99.7	100.6	105.6	104.9	103.6	99.7	93.3	88.1	85.6
46°	82.0	87.5	92.6	93.1	98.2	97.4	96.2	92.8	86.8	81.9	79.3
46.5°	76.0	80.9	85.6	85.9	90.9	90.0	89.3	86.0	80.8	76.5	73.7
47°	70.4	75.0	79.0	79.1	84.2	83.0	82.3	79.5	75.4	71.1	68.1
47.5°	64.9	69.0	72.5	72.4	78.0	76.9	76.3	73.8	70.0	65.7	62.5
48°	60.0	63.5	66.3	66.2	71.9	70.8	70.2	68.1	64.7	60.3	56.9
48.5°	55.0	58.0	60.4	60.4	65.8	64.8	64.2	62.4	59.3	54.9	52.3
49°	50.5	53.1	54.7	55.0	59.6	58.7	58.2	56.7	54.0	50.4	48.1
49.5°	46.2	48.4	49.4	49.8	53.5	52.6	52.2	51.1	49.4	46.1	44.3
50°	42.0	43.9	44.3	44.9	48.2	47.6	47.1	46.3	45.0	42.2	40.7
50.5°	38.1	39.4	39.7	40.2	43.2	42.8	42.3	41.8	40.9	38.4	37.3
51°	34.5	35.5	35.5	35.9	38.6	38.4	38.0	37.6	36.9	34.9	34.1
51.5°	30.9	31.7	31.5	31.9	34.3	34.2	33.9	33.6	33.2	31.6	31.1
52°	27.7	28.3	28.0	28.3	30.3	30.4	30.1	29.9	29.7	28.5	28.2
52.5°	24.9	25.4	25.1	25.4	26.6	26.8	26.6	26.4	26.3	25.5	25.4
53°	22.1	22.5	22.3	22.5	23.3	23.5	23.3	23.2	23.1	22.7	22.7
53.5°	19.3	19.7	19.4	19.6	20.2	20.4	20.3	20.2	20.3	20.0	20.1
54°	16.5	16.8	16.6	16.7	17.4	17.7	17.6	17.4	17.6	17.5	17.7
54.5°	14.3	14.0	13.8	13.8	15.0	15.3	15.2	15.0	15.1	15.2	15.4
55°	12.2	12.0	11.8	11.9	13.0	13.2	13.2	13.0	13.0	13.1	13.4
55.5°	10.4	10.2	10.0	10.0	11.1	11.3	11.3	11.1	11.1	11.2	11.5
56°	8.6	8.3	8.2	8.1	9.3	9.4	9.4	9.9	9.8	10.0	9.6
56.5°	7.0	6.7	6.6	6.6	8.2	8.3	8.3	8.7	8.4	8.7	8.5
57°	5.7	5.4	5.3	5.4	7.1	7.2	7.2	7.4	7.0	7.5	7.3
57.5°	4.7	4.5	4.4	4.5	6.0	6.2	6.1	6.2	5.7	6.2	6.2
58°	4.0	3.8	3.8	3.9	5.0	5.1	5.1	5.0	4.3	5.0	5.0
58.5°	3.4	3.3	3.3	3.4	3.9	4.1	4.0	3.8	3.7	3.7	3.9
59°	3.0	2.9	2.9	3.0	3.4	3.6	3.5	3.3	3.3	3.2	3.3
59.5°	2.7	2.7	2.6	2.7	3.1	3.2	3.1	3.0	2.9	2.9	3.0
60°	2.5	2.4	2.4	2.5	2.8	2.9	2.8	2.7	2.6	2.5	2.6
60.5°	2.2	2.2	2.2	2.2	2.5	2.6	2.5	2.4	2.3	2.3	2.4
61°	2.0	1.9	1.9	2.0	2.3	2.4	2.3	2.2	2.1	2.1	2.1
61.5°	1.8	1.8	1.8	1.8	2.1	2.2	2.1	2.0	1.9	1.9	1.9
62°	1.7	1.6	1.6	1.7	1.9	2.0	1.9	1.8	1.7	1.7	1.8
62.5°	1.5	1.5	1.5	1.5	1.7	1.8	1.8	1.7	1.6	1.6	1.6
63°	1.4	1.4	1.4	1.4	1.6	1.7	1.6	1.5	1.5	1.5	1.5
63.5°	1.3	1.3	1.3	1.3	1.5	1.6	1.5	1.4	1.4	1.3	1.4
64°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.2	1.3
64.5°	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.2	1.2	1.1	1.2
65°	1.0	1.0	1.0	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.1
65.5°	0.9	0.9	0.9	1.0	1.1	1.2	1.1	1.1	1.0	1.0	1.0
66°	0.9	0.9	0.9	0.9	1.0	1.1	1.0	1.0	0.9	0.9	0.9
66.5°	0.8	0.8	0.8	0.8	1.0	1.0	1.0	0.9	0.9	0.9	0.9
67°	0.7	0.7	0.7	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8

TEST NUMBER: P1590538

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

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	0.7	0.8	0.9	0.8	0.8	0.7	0.7	0.8
68°	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7
68.5°	0.6	0.6	0.6	0.6	0.7	0.8	0.7	0.7	0.6	0.6	0.7
69°	0.6	0.5	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	0.5	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	0.5	0.5	0.5	0.5
70.5°	0.4	0.4	0.4	0.5	0.5	0.6	0.5	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	0.4	0.4	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°	0.3	0.3	0.3	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4
72.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.4
73°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3
74°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3
75°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2
75.5°	0.2	0.2	0.2	0.2	0.2	0.3	0.2	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	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.1	0.1	0.1	0.1	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	0.1	0.1	0.1	0.1
78°	0.1	0.1	0.1	0.1	0.1	0.2	0.1	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	0.0	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: P1590538

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

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: P1590538

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

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	0.0	0.0	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	0.0	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: P1590538

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

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	0.1	0.1	0.2
138°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
144°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
144.5°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
145°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
145.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.3	0.3
153°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
153.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3
154°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	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: P1590538

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

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	0.3	0.4	0.4	0.4	0.4	0.4	0.4
175°	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.3
175.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3
176°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
176.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
177°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
177.5°	0.3	0.2	0.2	0.2	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: P1590538
CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

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: P1590538

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	789.3	789.3	789.3	789.3	789.3	789.3
0.5°	789.4	788.8	789.1	789.4	789.3	789.5
1°	789.2	788.6	788.9	789.0	789.0	789.1
1.5°	788.8	788.3	788.6	788.6	788.4	788.7
2°	788.4	787.9	788.0	787.7	787.7	788.1
2.5°	787.7	787.4	787.4	786.9	786.8	787.5
3°	787.0	786.9	786.7	785.7	785.4	786.7
3.5°	785.9	786.1	785.7	784.3	783.8	785.4
4°	784.8	785.0	784.5	782.7	782.1	784.1
4.5°	783.2	783.8	783.1	780.9	780.2	782.3
5°	781.5	782.4	781.6	778.8	778.0	780.5
5.5°	779.8	780.8	779.8	776.7	775.7	778.3
6°	777.7	778.9	778.0	774.6	773.2	776.1
6.5°	775.5	776.9	775.8	772.3	770.9	773.5
7°	773.2	774.4	773.5	770.0	768.3	770.8
7.5°	770.6	771.6	770.7	767.6	765.8	767.8
8°	767.7	768.5	767.8	764.7	763.0	764.9
8.5°	764.6	764.9	764.3	761.9	760.1	761.4
9°	761.0	760.6	760.4	758.4	756.8	757.7
9.5°	757.0	755.8	755.9	754.7	753.2	753.6
10°	752.2	750.2	750.7	750.1	749.3	749.4
10.5°	746.8	744.1	744.7	745.2	744.8	744.7
11°	740.8	737.1	738.0	739.4	739.8	739.4
11.5°	733.7	729.2	730.5	732.8	734.0	733.7
12°	726.1	720.8	722.4	725.3	727.3	727.2
12.5°	718.0	712.5	714.0	717.7	720.1	720.6
13°	709.7	703.7	705.3	709.4	712.8	713.6
13.5°	701.2	695.2	696.6	700.9	705.0	706.3
14°	692.5	686.1	687.7	692.3	696.9	698.7
14.5°	683.6	677.2	678.8	683.8	688.6	691.1
15°	674.7	668.0	669.7	674.8	680.2	683.3
15.5°	666.1	659.2	660.9	666.4	671.6	675.2
16°	657.5	650.5	652.4	657.6	663.0	667.2
16.5°	648.8	642.2	643.9	649.2	654.9	659.2
17°	640.5	633.5	635.3	640.9	646.4	651.0
17.5°	632.2	625.1	627.1	632.4	638.2	642.6
18°	624.0	616.5	618.6	624.0	629.7	634.3
18.5°	615.5	608.1	610.2	615.9	621.3	626.0
19°	607.5	599.8	602.1	607.6	612.9	617.7
19.5°	599.7	591.3	594.0	599.5	604.7	609.5
20°	591.9	583.3	586.1	591.4	596.3	601.2
20.5°	584.2	575.0	577.9	583.5	588.1	592.9
21°	576.4	567.1	569.9	575.2	579.7	584.6
21.5°	568.6	558.8	561.9	567.0	571.3	576.4
22°	560.6	550.8	553.8	558.8	563.1	567.7

TEST NUMBER: P1590538

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	552.3	542.4	545.3	550.5	554.4	559.0
23°	543.2	533.5	536.2	541.6	545.1	549.6
23.5°	533.5	523.8	526.7	532.1	535.8	540.1
24°	523.6	513.3	516.6	521.9	525.7	530.2
24.5°	513.3	501.9	506.1	511.0	515.1	520.1
25°	502.5	491.1	495.1	499.8	503.9	509.6
25.5°	491.2	480.1	484.0	488.1	492.8	499.2
26°	479.9	469.2	472.7	476.1	481.3	488.7
26.5°	468.2	457.8	461.2	464.0	469.6	478.5
27°	456.1	447.0	449.6	451.7	457.3	467.5
27.5°	443.9	436.0	437.5	439.4	445.3	456.7
28°	431.4	424.6	425.5	427.3	433.9	445.4
28.5°	419.0	413.2	413.7	415.3	422.5	434.2
29°	407.0	401.6	401.9	403.7	411.3	422.3
29.5°	395.2	389.5	390.1	392.2	400.3	410.7
30°	383.5	377.4	377.9	380.8	389.5	398.4
30.5°	371.6	364.8	365.8	369.4	378.3	386.5
31°	360.2	352.8	353.8	358.0	367.2	374.6
31.5°	348.7	340.4	341.9	346.7	355.9	362.8
32°	337.4	328.5	330.2	335.2	344.2	350.9
32.5°	326.1	316.7	318.6	323.8	332.6	339.5
33°	314.8	305.1	307.3	312.3	320.9	327.9
33.5°	303.4	293.3	296.3	300.5	308.9	316.3
34°	292.3	280.3	285.9	289.4	297.0	304.9
34.5°	281.1	269.8	275.1	278.8	285.6	293.3
35°	270.3	259.4	264.3	268.2	274.7	279.8
35.5°	259.5	249.0	253.5	257.5	263.9	269.1
36°	249.1	238.6	242.7	246.9	253.1	258.4
36.5°	238.7	228.5	231.9	236.3	242.2	247.6
37°	228.4	218.5	221.6	226.3	231.4	236.9
37.5°	218.3	208.8	211.5	216.4	221.3	225.8
38°	208.4	199.5	201.5	206.9	211.4	214.9
38.5°	198.8	190.4	191.8	197.2	201.3	204.4
39°	189.5	181.6	183.0	187.8	191.6	194.3
39.5°	180.2	172.6	174.0	178.2	181.9	184.3
40°	171.0	163.8	165.3	169.1	172.2	174.5
40.5°	162.3	155.6	156.8	159.9	162.5	165.3
41°	153.7	147.6	148.7	151.0	153.4	156.3
41.5°	145.5	139.8	140.8	142.5	144.3	147.4
42°	137.4	132.3	133.1	134.3	135.7	139.1
42.5°	129.4	125.2	125.6	125.9	127.2	131.1
43°	121.9	118.2	118.3	118.4	119.4	123.2
43.5°	114.6	111.4	111.3	110.6	111.6	115.5
44°	107.6	104.9	104.6	103.3	104.2	108.4
44.5°	100.9	98.5	98.1	96.1	97.0	101.3

TEST NUMBER: P1590538

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	94.4	92.4	91.8	89.3	90.1	94.5
45.5°	88.1	86.5	85.9	82.7	83.6	88.0
46°	82.2	80.9	80.2	76.5	77.4	82.0
46.5°	76.6	75.5	74.7	70.6	71.4	76.0
47°	71.4	70.2	69.5	65.2	65.8	70.4
47.5°	66.3	65.2	64.4	60.1	60.6	64.9
48°	61.1	60.3	59.6	55.4	55.8	60.0
48.5°	56.0	55.8	55.0	51.1	51.3	55.0
49°	51.5	51.4	50.6	47.1	47.0	50.5
49.5°	47.2	47.2	46.5	43.4	43.3	46.2
50°	43.2	43.2	42.4	39.9	39.7	42.0
50.5°	39.4	39.4	38.7	36.5	36.4	38.1
51°	35.9	35.7	35.2	33.4	33.1	34.5
51.5°	32.6	32.2	31.9	30.4	30.2	30.9
52°	29.4	29.0	28.7	27.5	27.6	27.7
52.5°	26.4	26.3	26.0	25.0	24.9	24.9
53°	23.5	23.5	23.4	22.4	22.2	22.1
53.5°	20.9	20.8	20.7	19.8	19.6	19.3
54°	18.3	18.0	18.0	17.3	16.9	16.5
54.5°	15.9	15.3	15.4	15.1	14.7	14.3
55°	13.8	13.2	13.3	13.1	12.6	12.2
55.5°	11.9	11.4	11.5	11.3	10.9	10.4
56°	10.1	9.5	9.7	9.5	9.1	8.6
56.5°	8.9	7.8	8.0	7.8	7.4	7.0
57°	7.7	6.4	6.6	6.4	6.0	5.7
57.5°	6.5	5.4	5.5	5.3	5.0	4.7
58°	5.3	4.6	4.7	4.5	4.2	4.0
58.5°	4.1	4.0	4.1	3.9	3.7	3.4
59°	3.6	3.5	3.6	3.4	3.2	3.0
59.5°	3.1	3.1	3.2	3.1	2.8	2.7
60°	2.8	2.9	2.9	2.8	2.6	2.5
60.5°	2.5	2.6	2.7	2.6	2.4	2.2
61°	2.3	2.4	2.4	2.4	2.2	2.0
61.5°	2.1	2.2	2.2	2.2	1.9	1.8
62°	1.9	2.0	2.0	1.9	1.8	1.7
62.5°	1.7	1.8	1.9	1.8	1.6	1.5
63°	1.6	1.7	1.7	1.6	1.5	1.4
63.5°	1.5	1.5	1.6	1.5	1.4	1.3
64°	1.4	1.4	1.5	1.4	1.3	1.2
64.5°	1.3	1.3	1.4	1.3	1.2	1.1
65°	1.2	1.2	1.3	1.2	1.1	1.0
65.5°	1.1	1.1	1.2	1.1	1.0	0.9
66°	1.0	1.1	1.1	1.0	0.9	0.9
66.5°	0.9	1.0	1.0	1.0	0.9	0.8
67°	0.9	0.9	1.0	0.9	0.8	0.7

TEST NUMBER: P1590538

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.8	0.9	0.9	0.8	0.7	0.7
68°	0.8	0.8	0.8	0.8	0.7	0.6
68.5°	0.7	0.7	0.8	0.7	0.6	0.6
69°	0.7	0.7	0.7	0.7	0.6	0.6
69.5°	0.6	0.6	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	0.5	0.5	0.4
71°	0.5	0.5	0.5	0.5	0.4	0.4
71.5°	0.5	0.5	0.5	0.5	0.4	0.4
72°	0.4	0.4	0.5	0.4	0.4	0.3
72.5°	0.4	0.4	0.4	0.4	0.3	0.3
73°	0.4	0.4	0.4	0.4	0.3	0.3
73.5°	0.3	0.3	0.4	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.2
74.5°	0.3	0.3	0.3	0.3	0.2	0.2
75°	0.3	0.3	0.3	0.3	0.2	0.2
75.5°	0.2	0.2	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	0.1	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: P1590538

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

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: P1590538

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

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	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.1	0.1	0.1	0.0	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: P1590538

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

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°	0.1	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	0.1	0.1	0.1	0.1	0.1
143.5°	0.2	0.2	0.2	0.1	0.1	0.1
144°	0.2	0.2	0.2	0.2	0.2	0.1
144.5°	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
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°	0.3	0.2	0.2	0.2	0.2	0.2
153.5°	0.3	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: P1590538

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

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°	0.3	0.2	0.2	0.2	0.2	0.2
175.5°	0.3	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	0.2	0.2	0.3	0.2	0.2
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: P1590538

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

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: P1590538

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-3000K

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	1.4	2.4	1.8	2.8	3.1	2.4	3.5	2.8	3.8	4.1
	3H	1.3	2.2	1.7	2.6	3.0	2.4	3.3	2.7	3.6	4.0
	4H	1.3	2.1	1.7	2.5	2.8	2.3	3.1	2.7	3.5	3.9
	6H	1.2	1.9	1.6	2.3	2.7	2.2	3.0	2.6	3.3	3.7
	8H	1.1	1.8	1.5	2.2	2.6	2.1	2.9	2.6	3.3	3.7
	12H	1.0	1.7	1.5	2.1	2.6	2.1	2.8	2.5	3.2	3.6
4H	2H	1.2	2.1	1.6	2.4	2.8	2.2	3.1	2.6	3.4	3.8
	3H	1.2	1.9	1.6	2.3	2.7	2.2	2.9	2.6	3.3	3.7
	4H	1.1	1.7	1.5	2.1	2.6	2.1	2.7	2.5	3.1	3.6
	6H	1.0	1.5	1.5	2.0	2.4	2.0	2.5	2.5	3.0	3.4
	8H	0.9	1.4	1.4	1.9	2.3	1.9	2.4	2.4	2.9	3.3
	12H	0.9	1.3	1.4	1.8	2.2	1.9	2.3	2.4	2.8	3.3
8H	4H	0.9	1.4	1.4	1.9	2.3	1.9	2.4	2.4	2.9	3.3
	6H	0.8	1.2	1.3	1.7	2.2	1.8	2.2	2.3	2.7	3.2
	8H	0.7	1.1	1.3	1.6	2.1	1.8	2.1	2.3	2.6	3.1
	12H	0.7	1.0	1.2	1.5	2.1	1.7	2.0	2.2	2.5	3.1
12H	4H	0.9	1.3	1.4	1.8	2.3	1.9	2.3	2.4	2.8	3.3
	6H	0.8	1.1	1.3	1.6	2.1	1.8	2.1	2.3	2.6	3.1
	8H	0.7	1.0	1.2	1.5	2.1	1.7	2.0	2.2	2.5	3.1

(END OF REPORT)