

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: P1590510

Luminaire Tested: HCDLS510CSD4TRC-ME-4000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590510
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: HCDLS510CSD4TRC-ME-4000K
Description: 4" Selectable Round Trim + Specular Clear 700 Lumens 4000K

Light Source:
Ballast/Driver: -

Summary

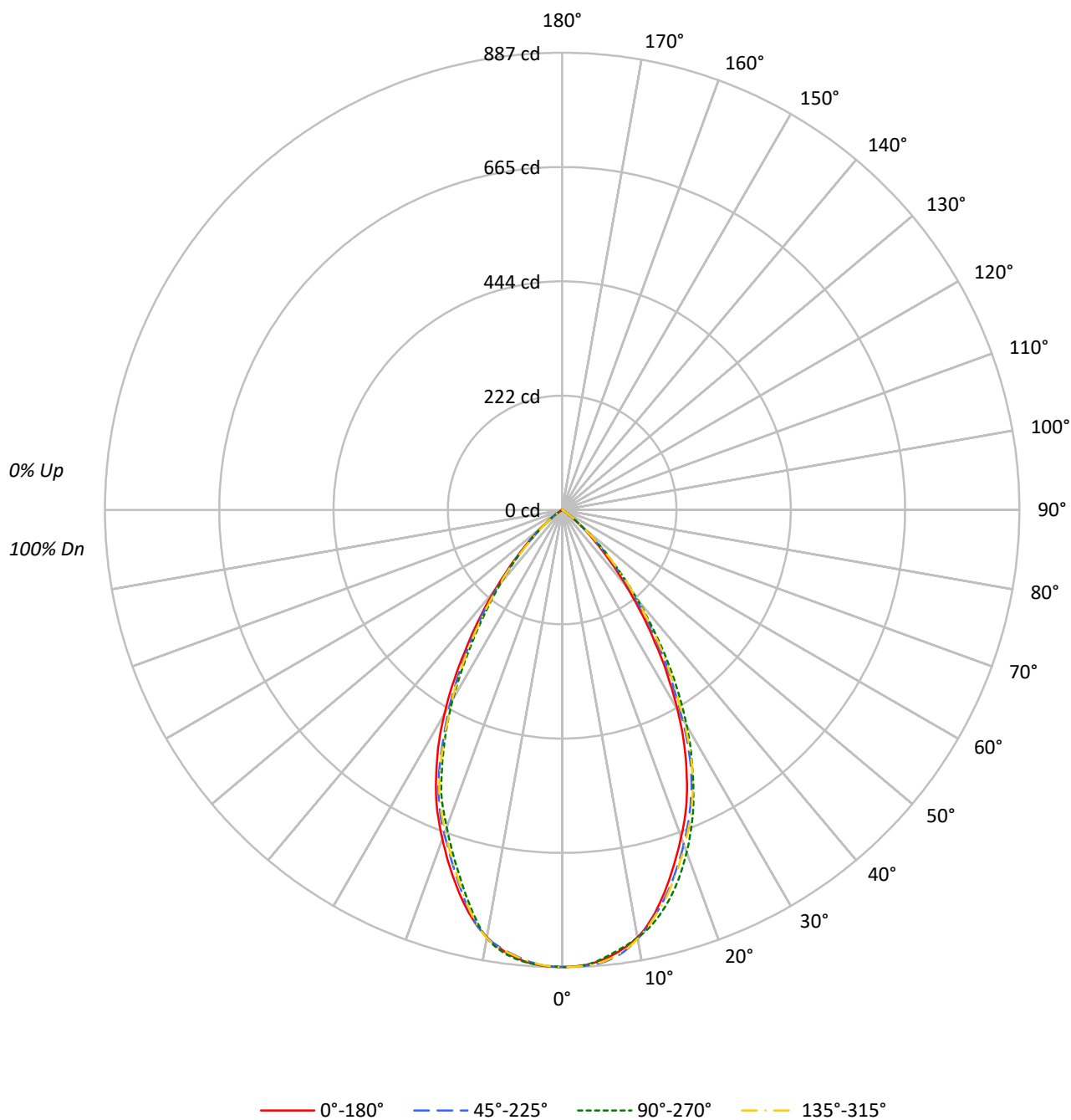
Lumens per Lamp: N/A
Luminaire Lumens: 867.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	109358	109358	109358	109358
5°	108538	108303	108662	108810
10°	105422	105559	105409	105547
15°	97995	100753	98339	95811
20°	88628	92710	89205	86003
25°	77902	81985	78827	75071
30°	63736	68849	65118	60375
35°	47326	53274	48320	43878
40°	31559	36680	32831	29627
45°	18525	22206	19589	18107
50°	9057	10401	9710	9307
55°	2946	3140	3140	3183
60°	691	765	715	789
65°	321	379	350	409
70°	180	216	216	252
75°	95	143	143	143
80°	71	71	71	71
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 22206 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	9.5
10°-20°	214.7	24.8
20°-30°	262.3	30.3
30°-40°	199.8	23.0
40°-50°	89.1	10.3
50°-60°	16.1	1.9
60°-70°	1.4	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°	559.7	64.6
0°-40°	759.5	87.6
0°-60°	864.7	99.7
0°-90°	866.5	99.9
90°-120°	0.0	0.0
90°-150°	0.3	0.0
90°-180°	1.0	0.1
0°-180°	867.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	887	887	887	887	887	
5°	877	875	878	879	877	83
15°	767	789	770	750	767	214
25°	572	602	579	552	572	260
35°	314	354	321	291	314	196
45°	106	127	112	104	106	85
55°	14	15	15	15	14	15
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°	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6
0.5°	886.7	886.4	886.5	886.7	886.4	886.5	886.9	886.7	886.7	886.4	886.4
1°	886.3	886.3	886.5	886.7	886.4	886.5	886.7	886.7	886.4	886.1	886.1
1.5°	885.9	886.0	886.3	886.4	886.1	886.3	886.4	886.3	886.1	885.6	885.6
2°	885.2	885.6	886.1	886.0	885.6	885.8	886.1	886.0	885.5	884.8	884.9
2.5°	884.5	885.2	885.7	885.3	884.8	885.0	885.8	885.6	884.7	883.8	884.0
3°	883.6	884.8	885.2	884.4	883.6	884.1	885.0	885.0	883.8	882.5	882.7
3.5°	882.2	884.2	884.5	883.2	882.1	882.8	884.2	884.2	882.8	880.9	881.0
4°	880.7	883.5	883.9	881.7	880.0	881.1	883.3	883.5	881.4	878.9	879.1
4.5°	878.7	882.4	882.9	879.7	877.5	879.0	882.0	882.4	879.7	876.5	876.9
5°	876.6	881.0	881.4	877.3	874.7	876.5	880.3	881.1	877.6	874.0	874.5
5.5°	874.2	879.3	879.6	874.8	871.8	873.8	878.4	879.4	875.4	871.2	872.0
6°	871.7	877.1	877.5	871.9	868.7	870.8	876.2	877.4	872.8	868.3	869.3
6.5°	868.8	874.6	875.1	869.1	865.5	867.8	873.6	875.0	869.8	865.3	866.6
7°	865.8	871.5	872.1	865.9	862.4	864.7	870.7	872.1	866.6	862.1	863.8
7.5°	862.4	868.1	868.7	862.6	859.2	861.3	867.4	868.7	863.4	858.9	860.7
8°	859.1	864.4	864.8	858.9	856.1	857.9	863.7	864.8	859.6	855.7	857.6
8.5°	855.2	860.1	860.5	855.1	852.9	854.6	859.5	860.6	855.6	852.0	854.2
9°	851.1	855.4	855.7	851.1	849.6	850.8	854.8	855.8	851.3	848.3	850.4
9.5°	846.5	850.1	850.5	846.9	846.3	846.8	849.9	850.5	846.8	844.1	846.4
10°	841.7	844.6	844.9	842.3	842.8	842.5	844.5	844.9	841.6	839.8	841.8
10.5°	836.4	838.6	838.9	837.4	839.0	838.1	838.9	838.8	836.0	834.6	836.4
11°	830.5	832.3	832.6	832.1	834.8	833.3	832.9	832.6	830.3	829.1	830.4
11.5°	824.1	825.5	826.2	826.7	830.3	828.3	826.8	826.1	824.1	823.0	823.7
12°	816.8	818.4	819.5	820.6	825.5	823.0	820.5	819.3	817.4	816.0	815.9
12.5°	809.3	811.0	812.4	814.8	820.1	817.0	814.0	812.3	810.0	808.3	807.2
13°	801.5	803.7	805.4	808.4	814.6	811.2	807.2	804.8	802.9	800.4	798.7
13.5°	793.3	795.8	798.1	802.0	808.6	805.2	800.3	797.6	795.0	792.0	789.7
14°	784.8	787.8	790.8	795.1	802.3	798.6	793.2	789.8	787.1	783.3	780.4
14.5°	776.3	779.7	783.3	788.2	795.7	791.9	785.7	782.1	778.5	774.4	771.0
15°	767.4	771.4	775.5	781.0	789.0	784.7	778.6	774.2	770.1	765.3	761.2
15.5°	758.4	763.0	767.7	773.4	782.0	777.5	770.7	766.0	761.5	756.2	751.5
16°	749.4	754.3	759.5	765.4	774.5	769.9	762.8	757.6	752.6	746.6	741.9
16.5°	740.4	745.8	751.3	757.6	766.9	762.0	754.5	749.0	743.7	737.3	732.4
17°	731.2	737.0	742.9	749.4	759.0	753.9	746.1	740.3	734.5	727.9	723.0
17.5°	721.8	728.2	734.1	741.0	750.9	745.6	737.7	731.2	725.4	718.6	713.5
18°	712.4	719.1	725.3	732.3	742.2	737.3	728.9	722.4	716.3	709.3	704.1
18.5°	703.1	709.9	716.5	723.5	733.6	728.5	720.2	713.6	707.1	699.9	694.9
19°	693.8	700.7	707.9	714.7	724.5	719.7	711.5	704.6	697.7	690.8	685.7
19.5°	684.6	691.6	699.0	705.7	715.7	710.7	702.7	695.4	688.6	681.8	677.5
20°	675.2	682.3	690.1	696.7	706.3	701.9	694.0	686.6	679.6	672.8	668.6
20.5°	666.0	673.3	681.0	687.6	697.1	692.8	685.0	677.9	670.2	663.7	659.8
21°	656.7	663.9	671.8	678.2	687.7	683.3	676.0	668.9	660.8	654.7	650.9
21.5°	647.4	654.6	662.8	668.7	677.6	673.6	667.1	659.9	651.4	645.7	642.0
22°	637.7	645.0	653.3	658.8	667.5	663.8	658.1	650.9	642.0	636.6	632.3

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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°	627.9	635.7	643.8	649.2	657.5	654.0	649.2	641.8	633.4	626.6	622.7
23°	617.3	625.6	634.2	638.5	647.4	644.2	640.2	631.9	623.1	616.0	612.6
23.5°	606.7	615.7	624.5	628.5	637.3	634.4	630.1	622.0	612.5	605.3	601.9
24°	595.5	605.3	614.2	617.3	625.6	623.4	620.2	611.9	601.6	594.3	590.3
24.5°	584.2	594.5	604.3	606.6	614.2	612.5	609.9	601.4	590.5	582.7	578.2
25°	572.4	583.3	593.6	595.0	602.4	601.2	599.4	590.7	579.2	570.8	565.7
25.5°	560.7	572.2	582.8	584.0	590.9	589.8	588.5	579.9	567.8	558.6	552.7
26°	548.9	560.6	571.6	572.3	579.3	578.3	577.4	568.7	556.3	546.4	538.9
26.5°	537.5	548.8	560.1	560.5	567.5	566.6	565.8	556.9	544.4	533.9	525.1
27°	525.1	536.9	547.5	548.7	555.7	554.6	553.7	544.9	532.7	521.1	511.6
27.5°	512.9	524.8	534.6	536.6	544.2	542.9	541.4	532.7	520.9	507.9	498.4
28°	500.3	512.6	521.1	524.3	532.4	531.0	528.1	520.1	508.6	495.1	485.4
28.5°	487.6	499.4	507.2	511.7	520.6	518.7	514.8	507.2	496.2	481.9	472.3
29°	474.3	486.7	493.0	499.1	508.6	506.6	501.0	493.8	483.4	469.0	459.8
29.5°	461.3	473.5	478.4	486.4	496.3	494.0	486.9	479.9	470.4	456.3	447.3
30°	447.5	459.7	464.1	473.2	483.4	481.3	472.2	465.7	457.2	443.6	434.8
30.5°	434.1	445.4	450.0	459.5	470.6	468.0	457.8	451.2	443.4	430.7	422.0
31°	420.7	431.5	436.3	445.9	457.6	454.8	443.9	436.8	430.0	418.2	409.1
31.5°	407.5	416.9	423.0	432.2	444.7	441.4	430.3	422.4	416.2	405.6	396.1
32°	394.2	402.8	410.0	418.3	431.6	427.7	417.2	408.5	403.0	393.2	383.0
32.5°	381.3	388.3	397.1	404.7	418.9	414.2	404.1	394.9	388.8	380.5	369.9
33°	368.3	375.1	384.7	391.2	406.1	400.4	391.8	381.6	374.9	368.2	356.7
33.5°	355.3	361.0	372.1	377.6	393.2	386.8	379.3	368.7	361.0	355.3	343.4
34°	342.5	348.3	359.7	364.8	380.0	373.6	366.9	356.0	347.7	342.5	330.9
34.5°	329.4	334.9	346.7	352.1	366.9	360.5	354.5	343.5	334.0	329.6	318.1
35°	314.3	322.2	333.9	339.7	353.8	347.8	342.1	331.3	320.9	316.3	306.2
35.5°	302.2	309.9	321.5	327.6	340.7	335.2	329.4	318.8	308.2	303.4	294.6
36°	290.2	297.6	309.4	316.1	327.3	322.9	316.9	306.2	296.0	290.8	283.2
36.5°	278.1	285.3	297.2	304.1	314.3	310.4	304.4	293.7	283.4	278.2	271.7
37°	266.1	273.0	285.0	292.1	301.2	298.3	292.0	281.4	271.4	266.0	260.7
37.5°	253.6	260.7	272.8	280.1	288.4	286.3	279.8	268.9	259.6	253.9	249.5
38°	241.4	249.5	260.6	268.1	275.9	274.5	268.4	257.0	248.1	242.4	238.5
38.5°	229.6	238.1	249.3	256.2	263.4	262.6	256.8	245.4	236.6	231.1	227.3
39°	218.2	227.2	238.5	244.8	251.3	251.4	245.9	234.0	225.6	220.1	216.5
39.5°	207.0	216.2	227.4	233.3	239.4	239.7	235.0	223.2	214.7	208.8	205.7
40°	196.0	205.8	216.6	222.0	227.8	228.7	224.3	212.9	203.9	198.0	195.2
40.5°	185.7	195.7	206.1	211.1	216.5	217.0	213.6	202.4	193.2	187.5	184.9
41°	175.6	185.6	195.5	200.4	205.4	206.2	203.0	192.4	182.9	177.2	174.9
41.5°	165.6	175.7	184.9	189.9	194.7	195.2	192.5	182.7	172.9	167.1	165.4
42°	156.3	166.5	175.0	179.9	184.3	184.8	182.1	173.3	163.3	157.2	156.3
42.5°	147.2	157.1	165.0	169.9	174.3	174.3	171.8	163.8	154.0	147.8	146.9
43°	138.4	148.0	155.4	159.7	164.4	164.4	161.8	154.7	145.2	138.8	138.0
43.5°	129.7	138.8	145.9	149.9	154.6	154.4	152.0	145.7	136.2	130.1	129.0
44°	121.7	130.1	137.2	140.3	145.1	145.0	142.7	137.0	128.0	121.9	120.7
44.5°	113.8	121.7	128.4	131.0	136.0	135.6	133.5	128.3	120.0	114.0	112.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	106.2	113.7	120.0	121.9	127.3	126.8	124.8	120.1	112.3	106.3	104.0
45.5°	98.8	105.7	112.0	113.0	118.6	117.8	116.3	112.0	104.8	98.9	96.1
46°	92.1	98.3	104.0	104.6	110.3	109.5	108.1	104.3	97.5	92.0	89.1
46.5°	85.3	90.9	96.2	96.5	102.1	101.1	100.3	96.6	90.7	85.9	82.8
47°	79.0	84.2	88.7	88.8	94.6	93.2	92.5	89.4	84.7	79.8	76.5
47.5°	72.9	77.5	81.4	81.3	87.7	86.4	85.7	82.9	78.7	73.8	70.2
48°	67.3	71.3	74.5	74.4	80.8	79.6	78.9	76.5	72.7	67.7	63.9
48.5°	61.8	65.2	67.8	67.8	73.9	72.7	72.1	70.1	66.6	61.7	58.8
49°	56.8	59.7	61.5	61.7	67.0	65.9	65.4	63.7	60.6	56.6	54.1
49.5°	51.9	54.3	55.4	55.9	60.1	59.1	58.6	57.4	55.5	51.8	49.8
50°	47.2	49.3	49.8	50.4	54.2	53.4	52.9	52.0	50.6	47.3	45.7
50.5°	42.7	44.3	44.6	45.2	48.5	48.0	47.6	46.9	45.9	43.1	41.9
51°	38.7	39.9	39.9	40.4	43.4	43.1	42.6	42.2	41.5	39.2	38.3
51.5°	34.7	35.6	35.4	35.9	38.5	38.4	38.1	37.7	37.3	35.5	34.9
52°	31.1	31.7	31.4	31.8	34.1	34.1	33.8	33.6	33.3	32.0	31.7
52.5°	28.0	28.5	28.2	28.5	29.9	30.1	29.8	29.7	29.6	28.7	28.5
53°	24.8	25.3	25.0	25.3	26.2	26.4	26.2	26.0	26.0	25.5	25.5
53.5°	21.7	22.1	21.8	22.0	22.6	22.9	22.8	22.7	22.8	22.4	22.6
54°	18.5	18.9	18.7	18.7	19.6	19.8	19.8	19.6	19.7	19.6	19.9
54.5°	16.0	15.7	15.5	15.5	16.9	17.1	17.1	16.8	17.0	17.0	17.3
55°	13.7	13.5	13.3	13.3	14.6	14.8	14.8	14.6	14.6	14.7	15.0
55.5°	11.7	11.4	11.2	11.2	12.5	12.7	12.7	12.4	12.5	12.6	12.9
56°	9.7	9.4	9.2	9.2	10.4	10.5	10.5	11.1	11.0	11.2	10.8
56.5°	7.8	7.6	7.4	7.4	9.2	9.3	9.3	9.7	9.4	9.8	9.5
57°	6.4	6.1	6.0	6.1	8.0	8.1	8.1	8.4	7.9	8.4	8.2
57.5°	5.2	5.1	5.0	5.1	6.8	6.9	6.9	7.0	6.4	7.0	6.9
58°	4.4	4.3	4.2	4.4	5.6	5.7	5.7	5.7	4.8	5.6	5.6
58.5°	3.8	3.7	3.7	3.8	4.4	4.6	4.5	4.3	4.2	4.2	4.4
59°	3.4	3.3	3.2	3.3	3.9	4.0	4.0	3.8	3.7	3.6	3.8
59.5°	3.1	3.0	3.0	3.1	3.4	3.6	3.5	3.3	3.2	3.2	3.3
60°	2.8	2.7	2.7	2.8	3.1	3.2	3.2	3.0	2.9	2.9	3.0
60.5°	2.5	2.4	2.4	2.5	2.8	2.9	2.9	2.7	2.6	2.6	2.7
61°	2.2	2.2	2.2	2.3	2.5	2.6	2.6	2.4	2.3	2.3	2.4
61.5°	2.0	2.0	2.0	2.1	2.3	2.4	2.4	2.2	2.1	2.1	2.2
62°	1.9	1.8	1.8	1.9	2.1	2.2	2.2	2.0	2.0	1.9	2.0
62.5°	1.7	1.7	1.7	1.7	2.0	2.0	2.0	1.9	1.8	1.8	1.8
63°	1.6	1.5	1.5	1.6	1.8	1.9	1.8	1.7	1.6	1.6	1.7
63.5°	1.4	1.4	1.4	1.5	1.7	1.7	1.7	1.6	1.5	1.5	1.5
64°	1.3	1.3	1.3	1.4	1.5	1.6	1.6	1.5	1.4	1.4	1.4
64.5°	1.2	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.3	1.3
65°	1.1	1.1	1.1	1.2	1.3	1.4	1.4	1.3	1.2	1.2	1.2
65.5°	1.1	1.0	1.0	1.1	1.2	1.3	1.3	1.2	1.1	1.1	1.1
66°	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.1	1.0	1.0	1.1
66.5°	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.0	1.0	1.0	1.0
67°	0.8	0.8	0.8	0.9	1.0	1.0	1.0	0.9	0.9	0.9	0.9

TEST NUMBER: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.8	0.8	0.8	0.8	0.9	1.0	0.9	0.9	0.8	0.8	0.9
68°	0.7	0.7	0.7	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8
68.5°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.7
69°	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7
69.5°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.6
70°	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6
70.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.6
71°	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5
71.5°	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4
72.5°	0.4	0.3	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4
73°	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
73.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3
74.5°	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2
76°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	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°	0.2	0.1	0.2	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	0.2	0.2	0.2
78°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1
78.5°	0.1	0.1	0.1	0.1	0.1	0.2	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	0.1	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	0.1	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	0.1	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: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

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°	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
127.5°	0.1	0.1	0.1	0.1	0.0	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	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: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

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	0.2
136.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
137°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
137.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	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°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
142°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
142.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
143°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
143.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
144°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
144.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
145°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	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	0.4	0.4	0.4
151°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
151.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
152°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
152.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
153°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	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: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

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	0.5	0.4
159.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.5	0.5	0.5
160°	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.5	0.5
160.5°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
161°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
161.5°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
162°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
162.5°	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
163°	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
163.5°	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
164°	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
164.5°	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
165°	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
165.5°	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
166°	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
166.5°	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
167°	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
167.5°	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
168°	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
168.5°	0.3	0.3	0.2	0.2	0.4	0.5	0.5	0.5	0.5	0.5	0.5
169°	0.3	0.3	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.5	0.5
169.5°	0.3	0.3	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.4	0.4
170°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
170.5°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171.5°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
172°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
172.5°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
173°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
173.5°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
174°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
174.5°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175.5°	0.3	0.3	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
176°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
176.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
177°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
177.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
178°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
178.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3
179°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	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: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

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: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	886.6	886.6	886.6	886.6	886.6	886.6
0.5°	886.7	886.0	886.3	886.7	886.6	886.7
1°	886.4	885.8	886.1	886.3	886.2	886.3
1.5°	886.0	885.4	885.8	885.7	885.6	885.9
2°	885.6	884.9	885.1	884.8	884.7	885.2
2.5°	884.7	884.4	884.4	883.8	883.8	884.5
3°	883.9	883.8	883.6	882.5	882.2	883.6
3.5°	882.8	882.9	882.4	881.0	880.4	882.2
4°	881.4	881.7	881.1	879.1	878.5	880.7
4.5°	879.6	880.4	879.6	877.1	876.3	878.7
5°	877.8	878.8	877.9	874.7	873.8	876.6
5.5°	875.8	877.0	875.9	872.4	871.2	874.2
6°	873.6	874.9	873.8	870.0	868.4	871.7
6.5°	871.1	872.6	871.4	867.5	865.9	868.8
7°	868.4	869.8	868.8	864.9	862.9	865.8
7.5°	865.6	866.7	865.7	862.2	860.1	862.4
8°	862.3	863.1	862.4	858.9	857.0	859.1
8.5°	858.9	859.1	858.5	855.7	853.7	855.2
9°	854.7	854.3	854.1	851.8	850.1	851.1
9.5°	850.2	849.0	849.0	847.6	846.0	846.5
10°	844.9	842.7	843.2	842.5	841.6	841.7
10.5°	838.8	835.7	836.4	837.1	836.6	836.4
11°	832.1	827.9	829.0	830.5	830.9	830.5
11.5°	824.1	819.1	820.5	823.1	824.4	824.1
12°	815.6	809.6	811.4	814.7	816.9	816.8
12.5°	806.5	800.3	802.0	806.1	808.8	809.3
13°	797.2	790.4	792.2	796.8	800.6	801.5
13.5°	787.6	780.8	782.4	787.3	791.9	793.3
14°	777.9	770.6	772.4	777.6	782.7	784.8
14.5°	767.8	760.6	762.4	768.0	773.4	776.3
15°	757.9	750.3	752.2	757.9	764.0	767.4
15.5°	748.1	740.4	742.3	748.5	754.4	758.4
16°	738.5	730.6	732.8	738.6	744.7	749.4
16.5°	728.8	721.3	723.2	729.2	735.6	740.4
17°	719.4	711.6	713.5	719.8	726.1	731.2
17.5°	710.1	702.1	704.4	710.3	716.9	721.8
18°	700.9	692.5	694.8	700.9	707.3	712.4
18.5°	691.4	683.1	685.4	691.7	697.9	703.1
19°	682.4	673.7	676.3	682.4	688.4	693.8
19.5°	673.6	664.1	667.2	673.3	679.2	684.6
20°	664.9	655.2	658.3	664.2	669.7	675.2
20.5°	656.1	645.8	649.1	655.4	660.5	666.0
21°	647.4	637.0	640.1	646.0	651.2	656.7
21.5°	638.6	627.7	631.1	636.9	641.7	647.4
22°	629.6	618.6	622.1	627.6	632.5	637.7

TEST NUMBER: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	620.3	609.2	612.5	618.3	622.7	627.9
23°	610.2	599.2	602.3	608.3	612.2	617.3
23.5°	599.2	588.3	591.6	597.6	601.8	606.7
24°	588.1	576.6	580.3	586.2	590.5	595.5
24.5°	576.5	563.8	568.5	574.0	578.5	584.2
25°	564.4	551.6	556.1	561.4	566.0	572.4
25.5°	551.7	539.3	543.6	548.2	553.5	560.7
26°	539.1	527.0	530.9	534.7	540.6	548.9
26.5°	525.9	514.2	518.0	521.1	527.4	537.5
27°	512.3	502.1	504.9	507.4	513.6	525.1
27.5°	498.6	489.7	491.4	493.6	500.2	512.9
28°	484.5	476.9	478.0	480.0	487.4	500.3
28.5°	470.6	464.1	464.7	466.5	474.6	487.6
29°	457.2	451.0	451.5	453.4	462.0	474.3
29.5°	443.9	437.5	438.2	440.5	449.6	461.3
30°	430.7	423.9	424.5	427.8	437.5	447.5
30.5°	417.4	409.7	410.9	415.0	425.0	434.1
31°	404.6	396.3	397.4	402.1	412.5	420.7
31.5°	391.6	382.4	384.0	389.4	399.8	407.5
32°	378.9	368.9	370.9	376.5	386.7	394.2
32.5°	366.3	355.7	357.8	363.6	373.6	381.3
33°	353.6	342.7	345.2	350.8	360.4	368.3
33.5°	340.8	329.4	332.8	337.6	347.0	355.3
34°	328.3	314.8	321.2	325.1	333.6	342.5
34.5°	315.7	303.1	309.0	313.1	320.8	329.4
35°	303.6	291.4	296.9	301.2	308.6	314.3
35.5°	291.4	279.7	284.7	289.3	296.4	302.2
36°	279.8	267.9	272.6	277.3	284.2	290.2
36.5°	268.1	256.6	260.4	265.4	272.1	278.1
37°	256.5	245.4	248.9	254.2	259.9	266.1
37.5°	245.2	234.5	237.5	243.1	248.6	253.6
38°	234.1	224.1	226.3	232.4	237.4	241.4
38.5°	223.3	213.8	215.4	221.5	226.1	229.6
39°	212.8	203.9	205.5	210.9	215.2	218.2
39.5°	202.4	193.9	195.5	200.2	204.3	207.0
40°	192.1	184.0	185.6	189.9	193.4	196.0
40.5°	182.3	174.7	176.1	179.6	182.5	185.7
41°	172.7	165.8	167.1	169.6	172.3	175.6
41.5°	163.4	157.0	158.1	160.1	162.0	165.6
42°	154.3	148.6	149.4	150.8	152.4	156.3
42.5°	145.4	140.6	141.1	141.4	142.9	147.2
43°	136.9	132.8	132.8	133.0	134.1	138.4
43.5°	128.7	125.1	125.0	124.2	125.4	129.7
44°	120.9	117.8	117.4	116.0	117.1	121.7
44.5°	113.3	110.6	110.2	107.9	108.9	113.8

TEST NUMBER: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	106.0	103.8	103.1	100.3	101.2	106.2
45.5°	99.0	97.2	96.5	92.9	93.9	98.8
46°	92.3	90.9	90.1	85.9	86.9	92.1
46.5°	86.0	84.8	83.9	79.3	80.2	85.3
47°	80.2	78.9	78.0	73.2	73.9	79.0
47.5°	74.4	73.2	72.3	67.5	68.1	72.9
48°	68.6	67.8	66.9	62.2	62.7	67.3
48.5°	62.9	62.7	61.8	57.3	57.7	61.8
49°	57.8	57.8	56.9	52.9	52.8	56.8
49.5°	53.0	53.0	52.2	48.7	48.7	51.9
50°	48.6	48.5	47.7	44.8	44.6	47.2
50.5°	44.3	44.2	43.5	41.0	40.8	42.7
51°	40.3	40.1	39.5	37.5	37.2	38.7
51.5°	36.6	36.2	35.8	34.2	33.9	34.7
52°	33.1	32.6	32.2	30.9	31.0	31.1
52.5°	29.6	29.5	29.2	28.0	28.0	28.0
53°	26.4	26.4	26.2	25.2	25.0	24.8
53.5°	23.4	23.3	23.2	22.3	22.0	21.7
54°	20.5	20.2	20.3	19.4	19.0	18.5
54.5°	17.9	17.2	17.3	17.0	16.5	16.0
55°	15.5	14.8	14.9	14.7	14.2	13.7
55.5°	13.4	12.8	12.9	12.7	12.3	11.7
56°	11.3	10.7	10.8	10.7	10.2	9.7
56.5°	10.0	8.8	9.0	8.8	8.4	7.8
57°	8.6	7.2	7.4	7.2	6.8	6.4
57.5°	7.3	6.0	6.2	6.0	5.6	5.2
58°	5.9	5.1	5.3	5.1	4.8	4.4
58.5°	4.6	4.5	4.6	4.4	4.1	3.8
59°	4.0	3.9	4.0	3.9	3.6	3.4
59.5°	3.5	3.5	3.6	3.5	3.2	3.1
60°	3.2	3.2	3.2	3.2	2.9	2.8
60.5°	2.8	3.0	3.0	2.9	2.7	2.5
61°	2.6	2.7	2.7	2.7	2.4	2.2
61.5°	2.3	2.5	2.5	2.4	2.2	2.0
62°	2.1	2.2	2.3	2.2	2.0	1.9
62.5°	2.0	2.0	2.1	2.0	1.8	1.7
63°	1.8	1.9	1.9	1.8	1.7	1.6
63.5°	1.7	1.7	1.8	1.7	1.6	1.4
64°	1.5	1.6	1.7	1.6	1.4	1.3
64.5°	1.4	1.5	1.5	1.5	1.3	1.2
65°	1.3	1.4	1.4	1.4	1.2	1.1
65.5°	1.2	1.3	1.3	1.3	1.1	1.1
66°	1.1	1.2	1.2	1.2	1.1	1.0
66.5°	1.1	1.1	1.1	1.1	1.0	0.9
67°	1.0	1.0	1.1	1.0	0.9	0.8

TEST NUMBER: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.9	1.0	1.0	0.9	0.8	0.8
68°	0.8	0.9	0.9	0.9	0.8	0.7
68.5°	0.8	0.8	0.9	0.8	0.7	0.7
69°	0.7	0.8	0.8	0.8	0.7	0.6
69.5°	0.7	0.7	0.7	0.7	0.6	0.6
70°	0.6	0.7	0.7	0.7	0.6	0.5
70.5°	0.6	0.6	0.6	0.6	0.5	0.5
71°	0.5	0.6	0.6	0.6	0.5	0.5
71.5°	0.5	0.5	0.6	0.5	0.5	0.4
72°	0.5	0.5	0.5	0.5	0.4	0.4
72.5°	0.4	0.5	0.5	0.4	0.4	0.4
73°	0.4	0.4	0.4	0.4	0.4	0.3
73.5°	0.4	0.4	0.4	0.4	0.3	0.3
74°	0.3	0.4	0.4	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.2
75.5°	0.3	0.3	0.3	0.3	0.2	0.2
76°	0.2	0.3	0.3	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	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.1
78°	0.2	0.2	0.2	0.2	0.1	0.1
78.5°	0.1	0.2	0.2	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	0.1	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: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0
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: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

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	0.1	0.1	0.1	0.0	0.0
126.5°	0.1	0.1	0.1	0.1	0.1	0.1
127°	0.1	0.1	0.1	0.1	0.1	0.1
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: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

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°	0.2	0.1	0.1	0.1	0.1	0.1
136.5°	0.2	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	0.2	0.2	0.2	0.1	0.1
141.5°	0.2	0.2	0.2	0.2	0.2	0.2
142°	0.2	0.2	0.2	0.2	0.2	0.2
142.5°	0.2	0.2	0.2	0.2	0.2	0.2
143°	0.3	0.2	0.2	0.2	0.2	0.2
143.5°	0.3	0.2	0.2	0.2	0.2	0.2
144°	0.3	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°	0.4	0.2	0.2	0.2	0.2	0.2
151°	0.4	0.2	0.2	0.2	0.2	0.2
151.5°	0.4	0.2	0.2	0.2	0.2	0.2
152°	0.4	0.2	0.2	0.2	0.2	0.2
152.5°	0.4	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: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

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°	0.5	0.2	0.2	0.2	0.3	0.2
160.5°	0.5	0.2	0.2	0.3	0.3	0.3
161°	0.5	0.2	0.2	0.3	0.3	0.3
161.5°	0.5	0.2	0.2	0.3	0.3	0.3
162°	0.5	0.2	0.2	0.3	0.3	0.3
162.5°	0.5	0.2	0.2	0.3	0.3	0.3
163°	0.5	0.2	0.2	0.3	0.3	0.3
163.5°	0.5	0.2	0.2	0.3	0.3	0.3
164°	0.5	0.2	0.2	0.3	0.3	0.3
164.5°	0.5	0.2	0.2	0.3	0.3	0.3
165°	0.5	0.2	0.2	0.3	0.3	0.3
165.5°	0.5	0.2	0.2	0.3	0.3	0.3
166°	0.5	0.2	0.2	0.3	0.3	0.3
166.5°	0.5	0.2	0.2	0.3	0.3	0.3
167°	0.5	0.2	0.2	0.3	0.3	0.3
167.5°	0.5	0.2	0.2	0.3	0.3	0.3
168°	0.5	0.2	0.2	0.3	0.3	0.3
168.5°	0.5	0.2	0.2	0.3	0.3	0.3
169°	0.5	0.2	0.2	0.3	0.3	0.3
169.5°	0.4	0.2	0.2	0.3	0.3	0.3
170°	0.4	0.2	0.2	0.3	0.3	0.3
170.5°	0.4	0.2	0.2	0.3	0.3	0.3
171°	0.4	0.2	0.2	0.3	0.3	0.3
171.5°	0.4	0.2	0.2	0.3	0.3	0.3
172°	0.4	0.2	0.2	0.3	0.3	0.3
172.5°	0.4	0.2	0.2	0.3	0.3	0.3
173°	0.4	0.2	0.2	0.3	0.3	0.3
173.5°	0.4	0.2	0.2	0.3	0.3	0.3
174°	0.4	0.2	0.2	0.3	0.3	0.3
174.5°	0.4	0.2	0.2	0.3	0.3	0.3
175°	0.4	0.2	0.3	0.3	0.3	0.3
175.5°	0.4	0.2	0.3	0.3	0.3	0.3
176°	0.4	0.3	0.3	0.3	0.3	0.3
176.5°	0.4	0.3	0.3	0.3	0.3	0.3
177°	0.4	0.3	0.3	0.3	0.3	0.3
177.5°	0.4	0.3	0.3	0.3	0.3	0.3
178°	0.4	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: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

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: P1590510

CATALOG NUMBER: HCDLS510CSD4TRC-ME-4000K

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	1.8	2.9	2.2	3.2	3.5	2.8	3.9	3.2	4.2	4.5
	3H	1.8	2.7	2.1	3.0	3.4	2.8	3.7	3.1	4.0	4.4
	4H	1.7	2.5	2.1	2.9	3.3	2.7	3.5	3.1	3.9	4.3
	6H	1.6	2.4	2.0	2.7	3.1	2.6	3.4	3.0	3.7	4.1
	8H	1.5	2.3	2.0	2.6	3.1	2.5	3.3	3.0	3.7	4.1
	12H	1.5	2.2	1.9	2.6	3.0	2.5	3.2	2.9	3.6	4.0
4H	2H	1.6	2.5	2.1	2.8	3.2	2.6	3.5	3.0	3.8	4.2
	3H	1.6	2.3	2.0	2.7	3.1	2.6	3.3	3.0	3.7	4.1
	4H	1.5	2.1	2.0	2.6	3.0	2.5	3.1	2.9	3.5	4.0
	6H	1.4	1.9	1.9	2.4	2.9	2.4	2.9	2.9	3.4	3.8
	8H	1.4	1.8	1.8	2.3	2.8	2.3	2.8	2.8	3.3	3.7
	12H	1.3	1.7	1.8	2.2	2.7	2.3	2.7	2.8	3.2	3.7
8H	4H	1.4	1.8	1.8	2.3	2.8	2.3	2.8	2.8	3.3	3.7
	6H	1.3	1.6	1.8	2.1	2.6	2.2	2.6	2.7	3.1	3.6
	8H	1.2	1.5	1.7	2.0	2.5	2.2	2.5	2.7	3.0	3.5
	12H	1.1	1.4	1.6	1.9	2.5	2.1	2.4	2.6	2.9	3.5
12H	4H	1.3	1.7	1.8	2.2	2.7	2.3	2.7	2.8	3.2	3.7
	6H	1.2	1.5	1.7	2.0	2.6	2.2	2.5	2.7	3.0	3.5
	8H	1.1	1.4	1.6	1.9	2.5	2.1	2.4	2.6	2.9	3.5

(END OF REPORT)