

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: P1590511

Luminaire Tested: HCDLS510CSD4TRC-ME-5000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590511
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-5000K
Description: 4" Selectable Round Trim + Specular Clear 700 Lumens 5000K

Light Source:
Ballast/Driver: -

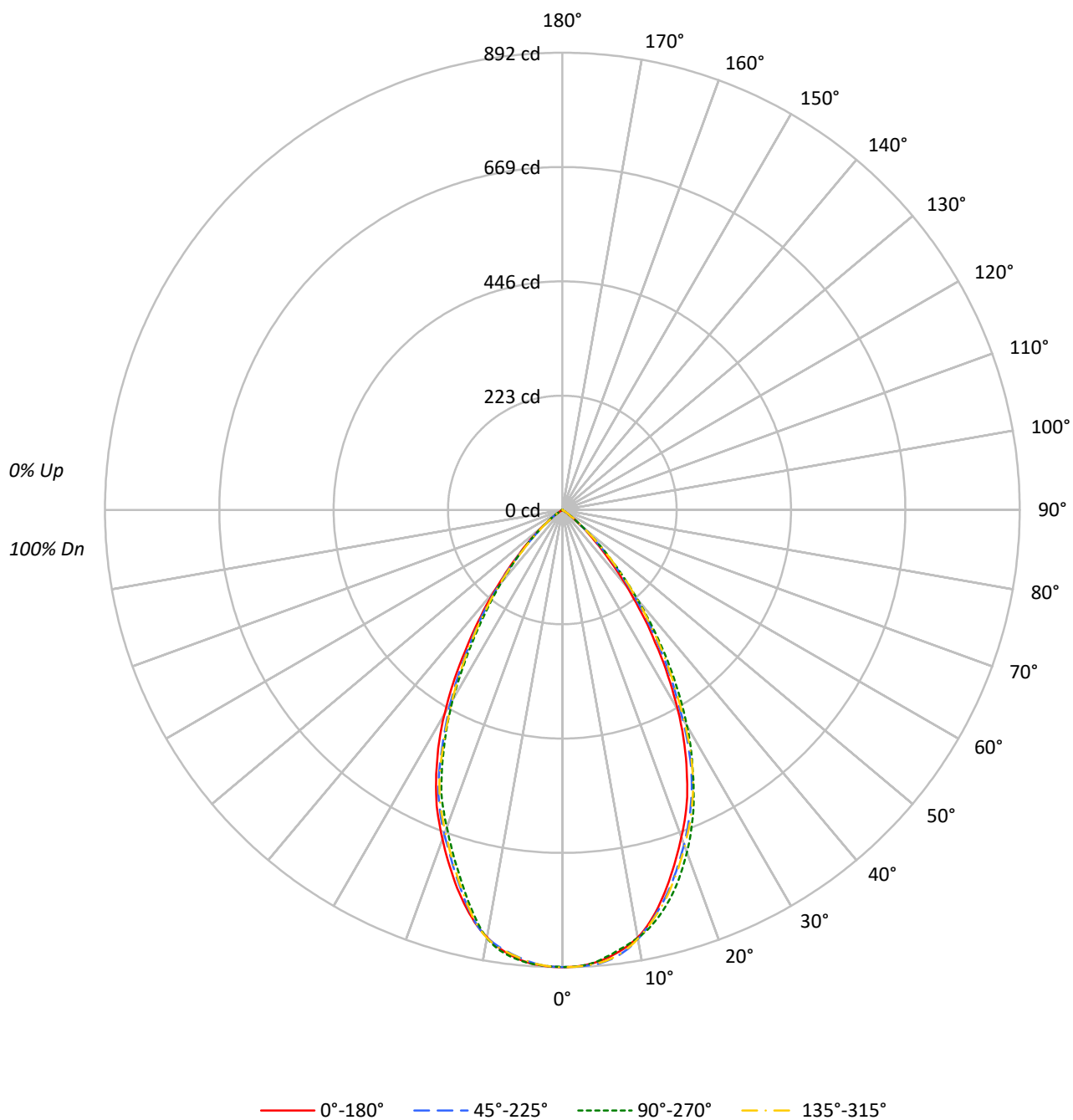
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 872.1 lumens
Efficiency: N/A
Efficacy: 102.6 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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	113	110	108	106	111	108	106	104	104	102	101		100	99	98		93
2	107	102	98	95	105	101	97	94	97	94	91		94	92	90		86
3	102	95	90	86	100	94	89	85	91	87	84		88	85	82		79
4	96	88	82	78	94	87	82	78	85	80	77		83	79	76		73
5	91	82	76	72	89	81	76	71	79	74	71		78	73	70		68
6	86	77	71	66	85	76	70	66	74	69	65		73	68	65		63
7	82	72	66	61	80	71	65	61	70	65	61		69	64	60		58
8	77	67	61	57	76	67	61	57	66	60	56		65	60	56		55
9	73	63	57	53	72	63	57	53	62	56	53		61	56	53		51
10	70	60	54	50	69	59	53	50	58	53	49		58	53	49		48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	110000	110000	110000	110000
5°	109182	108946	109305	109454
10°	106048	106186	106023	106161
15°	98582	101353	98914	96373
20°	89153	93248	89730	86501
25°	78351	82461	79290	75520
30°	64107	69262	65488	60731
35°	47597	53590	48606	44134
40°	31752	36889	33024	29804
45°	18630	22345	19694	18211
50°	9115	10458	9767	9364
55°	2968	3161	3161	3204
60°	691	765	715	789
65°	321	379	350	409
70°	180	252	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: 22345 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	9.5
10°-20°	216.0	24.8
20°-30°	263.8	30.3
30°-40°	201.0	23.0
40°-50°	89.6	10.3
50°-60°	16.2	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°	563.0	64.6
0°-40°	764.0	87.6
0°-60°	869.8	99.7
0°-90°	871.6	99.9
90°-120°	0.0	0.0
90°-150°	0.3	0.0
90°-180°	1.0	0.1
0°-180°	872.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	892	892	892	892	892	
5°	882	880	883	884	882	83
15°	772	794	775	755	772	215
25°	576	606	583	555	576	262
35°	316	356	323	293	316	197
45°	107	128	113	104	107	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°	891.8	891.8	891.8	891.8	891.8	891.8	891.8	891.8	891.8	891.8	891.8
0.5°	891.9	891.6	891.7	891.9	891.6	891.7	892.1	891.9	891.9	891.6	891.6
1°	891.6	891.6	891.7	891.9	891.6	891.7	891.9	891.9	891.6	891.3	891.3
1.5°	891.1	891.2	891.6	891.6	891.3	891.6	891.6	891.6	891.3	890.8	890.8
2°	890.5	890.8	891.3	891.2	890.8	891.0	891.3	891.2	890.7	890.0	890.1
2.5°	889.7	890.5	890.9	890.5	890.0	890.2	891.0	890.8	889.9	889.0	889.2
3°	888.8	890.0	890.4	889.6	888.8	889.3	890.2	890.2	889.0	887.7	887.9
3.5°	887.4	889.4	889.8	888.4	887.2	888.0	889.4	889.4	888.0	886.1	886.2
4°	885.8	888.7	889.1	886.9	885.1	886.3	888.5	888.7	886.5	884.0	884.3
4.5°	883.9	887.6	888.1	884.9	882.6	884.2	887.2	887.6	884.9	881.7	882.1
5°	881.8	886.2	886.5	882.5	879.9	881.6	885.5	886.3	882.8	879.1	879.6
5.5°	879.3	884.4	884.8	880.0	876.9	878.9	883.6	884.6	880.6	876.3	877.1
6°	876.8	882.2	882.7	877.1	873.8	876.0	881.4	882.5	877.9	873.4	874.4
6.5°	873.9	879.7	880.3	874.2	870.6	872.9	878.8	880.1	874.9	870.4	871.7
7°	870.9	876.7	877.2	871.0	867.4	869.8	875.8	877.2	871.7	867.2	868.8
7.5°	867.5	873.2	873.8	867.7	864.3	866.4	872.5	873.9	868.5	864.0	865.8
8°	864.1	869.5	869.9	864.0	861.1	863.0	868.8	869.9	864.7	860.7	862.7
8.5°	860.2	865.2	865.6	860.1	857.9	859.6	864.5	865.7	860.6	857.0	859.2
9°	856.1	860.4	860.7	856.2	854.6	855.8	859.8	860.9	856.3	853.3	855.4
9.5°	851.5	855.1	855.5	851.8	851.3	851.8	854.9	855.5	851.8	849.1	851.4
10°	846.7	849.6	849.9	847.2	847.8	847.5	849.5	849.9	846.5	844.7	846.8
10.5°	841.4	843.5	843.9	842.3	843.9	843.1	843.9	843.7	841.0	839.5	841.3
11°	835.4	837.2	837.5	837.0	839.7	838.2	837.8	837.5	835.2	834.0	835.2
11.5°	828.9	830.3	831.1	831.6	835.2	833.2	831.6	830.9	828.9	827.9	828.5
12°	821.6	823.2	824.4	825.5	830.4	827.8	825.4	824.1	822.2	820.8	820.7
12.5°	814.1	815.8	817.2	819.6	824.9	821.9	818.8	817.1	814.7	813.1	811.9
13°	806.2	808.4	810.1	813.2	819.4	816.0	812.0	809.6	807.6	805.1	803.4
13.5°	798.0	800.5	802.8	806.7	813.4	809.9	805.0	802.3	799.7	796.6	794.4
14°	789.4	792.4	795.5	799.8	807.0	803.3	797.9	794.4	791.7	787.9	785.0
14.5°	780.8	784.3	787.9	792.9	800.4	796.6	790.4	786.7	783.1	778.9	775.5
15°	772.0	776.0	780.1	785.6	793.7	789.3	783.2	778.7	774.6	769.8	765.7
15.5°	762.8	767.4	772.2	778.0	786.6	782.1	775.3	770.5	766.0	760.6	755.9
16°	753.8	758.7	764.0	769.9	779.1	774.4	767.3	762.0	757.1	751.0	746.3
16.5°	744.8	750.1	755.7	762.0	771.4	766.5	758.9	753.4	748.0	741.6	736.8
17°	735.5	741.4	747.3	753.8	763.5	758.4	750.5	744.6	738.9	732.2	727.2
17.5°	726.0	732.5	738.5	745.4	755.3	750.0	742.1	735.5	729.6	722.8	717.7
18°	716.6	723.3	729.6	736.6	746.5	741.6	733.2	726.6	720.5	713.4	708.3
18.5°	707.2	714.1	720.7	727.8	737.9	732.8	724.4	717.8	711.3	704.0	699.0
19°	697.9	704.8	712.0	718.9	728.8	723.9	715.7	708.7	701.8	694.9	689.7
19.5°	688.6	695.7	703.1	709.9	719.9	714.9	706.9	699.4	692.6	685.8	681.5
20°	679.2	686.3	694.1	700.8	710.4	706.0	698.1	690.6	683.6	676.7	672.6
20.5°	669.9	677.3	685.0	691.6	701.2	696.9	689.0	681.9	674.1	667.7	663.6
21°	660.5	667.8	675.8	682.2	691.7	687.4	680.0	672.9	664.7	658.6	654.7
21.5°	651.2	658.5	666.7	672.7	681.6	677.5	671.0	663.8	655.2	649.5	645.8
22°	641.4	648.8	657.1	662.6	671.5	667.7	662.0	654.7	645.8	640.4	636.0

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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°	631.6	639.4	647.6	653.0	661.3	657.8	653.0	645.6	637.1	630.3	626.3
23°	620.9	629.3	638.0	642.3	651.2	648.0	644.0	635.6	626.8	619.6	616.2
23.5°	610.3	619.3	628.2	632.2	641.1	638.1	633.8	625.7	616.1	608.8	605.4
24°	599.0	608.9	617.8	621.0	629.3	627.1	623.8	615.5	605.1	597.8	593.8
24.5°	587.6	598.0	607.8	610.2	617.9	616.1	613.5	604.9	594.0	586.1	581.6
25°	575.7	586.8	597.1	598.5	605.9	604.7	602.9	594.2	582.6	574.2	569.1
25.5°	564.0	575.6	586.3	587.4	594.4	593.3	592.0	583.3	571.1	561.9	555.9
26°	552.2	563.9	574.9	575.6	582.7	581.7	580.8	572.0	559.6	549.6	542.1
26.5°	540.6	552.1	563.3	563.8	570.8	569.9	569.1	560.1	547.6	537.0	528.2
27°	528.2	540.0	550.7	551.9	558.9	557.9	557.0	548.1	535.8	524.2	514.6
27.5°	516.0	527.9	537.7	539.7	547.4	546.1	544.6	535.9	524.0	510.9	501.4
28°	503.3	515.6	524.2	527.4	535.6	534.2	531.2	523.2	511.6	498.0	488.2
28.5°	490.5	502.3	510.1	514.7	523.6	521.7	517.9	510.2	499.1	484.7	475.1
29°	477.1	489.6	495.9	502.0	511.6	509.6	503.9	496.7	486.3	471.8	462.6
29.5°	464.0	476.3	481.2	489.2	499.2	496.9	489.8	482.8	473.1	459.0	450.0
30°	450.1	462.4	466.9	476.0	486.3	484.1	475.0	468.4	459.8	446.2	437.3
30.5°	436.7	448.0	452.7	462.2	473.4	470.7	460.5	453.9	446.0	433.2	424.5
31°	423.2	434.1	438.9	448.5	460.3	457.5	446.5	439.4	432.6	420.6	411.5
31.5°	409.9	419.4	425.4	434.7	447.3	444.0	432.8	424.8	418.6	408.0	398.5
32°	396.5	405.2	412.5	420.8	434.1	430.2	419.6	410.9	405.4	395.5	385.2
32.5°	383.5	390.6	399.5	407.1	421.3	416.6	406.5	397.2	391.1	382.7	372.1
33°	370.5	377.3	387.0	393.5	408.5	402.7	394.1	383.8	377.1	370.3	358.8
33.5°	357.4	363.2	374.3	379.8	395.5	389.1	381.5	370.8	363.1	357.4	345.4
34°	344.5	350.3	361.8	366.9	382.3	375.8	369.1	358.1	349.7	344.5	332.8
34.5°	331.4	336.9	348.8	354.1	369.0	362.7	356.6	345.5	335.9	331.5	320.0
35°	316.1	324.1	335.9	341.7	355.9	349.8	344.1	333.3	322.8	318.2	308.0
35.5°	304.0	311.7	323.4	329.6	342.7	337.1	331.4	320.6	310.0	305.2	296.3
36°	291.9	299.3	311.2	317.9	329.3	324.8	318.8	308.0	297.8	292.5	284.9
36.5°	279.8	286.9	298.9	305.9	316.1	312.2	306.2	295.4	285.0	279.9	273.3
37°	267.7	274.6	286.6	293.8	303.0	300.0	293.7	283.1	272.9	267.6	262.3
37.5°	255.1	262.2	274.4	281.7	290.1	288.0	281.4	270.5	261.2	255.4	251.0
38°	242.8	251.0	262.1	269.6	277.6	276.1	269.9	258.5	249.6	243.8	239.9
38.5°	230.9	239.5	250.8	257.7	264.9	264.1	258.3	246.8	238.0	232.4	228.6
39°	219.5	228.5	239.9	246.2	252.8	252.9	247.3	235.4	227.0	221.4	217.8
39.5°	208.2	217.5	228.7	234.7	240.8	241.1	236.4	224.5	215.9	210.1	207.0
40°	197.2	207.0	217.9	223.4	229.1	230.0	225.6	214.1	205.1	199.2	196.4
40.5°	186.8	196.9	207.3	212.3	217.8	218.3	214.8	203.6	194.3	188.6	185.9
41°	176.6	186.7	196.7	201.6	206.6	207.4	204.2	193.6	183.9	178.2	176.0
41.5°	166.6	176.7	185.9	191.1	195.9	196.4	193.7	183.8	174.0	168.1	166.4
42°	157.2	167.5	176.0	181.0	185.4	185.9	183.2	174.3	164.3	158.1	157.2
42.5°	148.1	158.1	166.0	170.9	175.3	175.4	172.8	164.8	154.9	148.7	147.8
43°	139.2	148.9	156.3	160.6	165.3	165.3	162.7	155.7	146.0	139.6	138.8
43.5°	130.5	139.6	146.7	150.8	155.5	155.3	152.9	146.6	137.0	130.9	129.7
44°	122.4	130.9	138.0	141.1	146.0	145.9	143.5	137.8	128.8	122.6	121.4
44.5°	114.5	122.4	129.1	131.7	136.8	136.4	134.3	129.1	120.7	114.6	112.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	106.8	114.3	120.7	122.6	128.1	127.5	125.5	120.8	112.9	106.9	104.6
45.5°	99.4	106.3	112.6	113.6	119.3	118.5	117.0	112.7	105.5	99.5	96.7
46°	92.6	98.9	104.6	105.2	110.9	110.1	108.7	104.9	98.1	92.5	89.6
46.5°	85.8	91.4	96.7	97.0	102.7	101.7	100.9	97.2	91.3	86.4	83.3
47°	79.5	84.7	89.2	89.3	95.1	93.8	93.0	89.9	85.2	80.3	76.9
47.5°	73.3	77.9	81.9	81.8	88.2	86.9	86.2	83.4	79.1	74.2	70.6
48°	67.7	71.8	74.9	74.8	81.2	80.0	79.4	77.0	73.1	68.1	64.3
48.5°	62.2	65.5	68.2	68.2	74.3	73.2	72.5	70.6	67.0	62.0	59.1
49°	57.1	60.0	61.9	62.1	67.4	66.3	65.7	64.1	61.0	56.9	54.4
49.5°	52.2	54.6	55.8	56.3	60.5	59.4	58.9	57.7	55.8	52.1	50.1
50°	47.5	49.6	50.1	50.7	54.5	53.7	53.2	52.4	50.9	47.6	46.0
50.5°	43.0	44.5	44.9	45.4	48.8	48.3	47.8	47.2	46.2	43.4	42.1
51°	38.9	40.1	40.1	40.6	43.7	43.4	42.9	42.4	41.7	39.5	38.5
51.5°	35.0	35.8	35.6	36.1	38.8	38.7	38.3	37.9	37.6	35.8	35.1
52°	31.3	31.9	31.6	32.0	34.3	34.3	34.0	33.8	33.5	32.2	31.9
52.5°	28.1	28.7	28.4	28.7	30.1	30.2	30.0	29.8	29.7	28.9	28.7
53°	25.0	25.5	25.2	25.4	26.3	26.5	26.4	26.2	26.2	25.6	25.6
53.5°	21.8	22.2	22.0	22.1	22.8	23.0	23.0	22.8	22.9	22.6	22.7
54°	18.6	19.0	18.8	18.8	19.7	20.0	19.9	19.7	19.8	19.7	20.0
54.5°	16.1	15.8	15.6	15.6	17.0	17.2	17.2	16.9	17.1	17.1	17.4
55°	13.8	13.6	13.4	13.4	14.7	14.9	14.9	14.6	14.7	14.8	15.1
55.5°	11.8	11.5	11.3	11.2	12.5	12.8	12.7	12.5	12.6	12.7	13.0
56°	9.7	9.4	9.2	9.2	10.5	10.6	10.6	11.1	11.0	11.3	10.9
56.5°	7.9	7.6	7.4	7.5	9.2	9.4	9.4	9.8	9.5	9.8	9.6
57°	6.4	6.2	6.0	6.1	8.0	8.2	8.2	8.4	7.9	8.4	8.3
57.5°	5.3	5.1	5.0	5.1	6.8	7.0	6.9	7.0	6.4	7.0	7.0
58°	4.5	4.3	4.3	4.4	5.6	5.8	5.7	5.7	4.9	5.6	5.7
58.5°	3.9	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	3.3	3.3	3.9	4.0	4.0	3.8	3.7	3.7	3.8
59.5°	3.1	3.0	3.0	3.1	3.5	3.6	3.5	3.4	3.3	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	2.5	2.5	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	2.6	2.7	2.6	2.5	2.4	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	2.1	2.0	1.9	2.0
62.5°	1.7	1.7	1.7	1.8	2.0	2.1	2.0	1.9	1.8	1.8	1.8
63°	1.6	1.5	1.5	1.6	1.8	1.9	1.9	1.7	1.7	1.6	1.7
63.5°	1.5	1.4	1.4	1.5	1.7	1.8	1.7	1.6	1.5	1.5	1.6
64°	1.3	1.3	1.3	1.4	1.6	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	1.1	1.1	1.2	1.3	1.3	1.2	1.1	1.1	1.2
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	1.0	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	1.1	1.0	1.0	0.9	0.9	0.9

TEST NUMBER: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-ME-5000K

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	1.0	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	0.9	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	0.7	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	0.5	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	0.6	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	0.4	0.4	0.4	0.5	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	0.3	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	0.2	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	0.1	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: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-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°	0.1	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	0.1	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: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.2
136.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	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	0.2	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	0.2	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	0.3	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	0.4	0.4
150.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	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: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.5	0.5
159.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.5	0.5	0.5	0.5
160°	0.3	0.2	0.2	0.2	0.5	0.5	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	0.3	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
162°	0.3	0.3	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5
169°	0.3	0.3	0.2	0.2	0.4	0.5	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	0.5	0.5
170°	0.3	0.3	0.2	0.2	0.4	0.4	0.4	0.5	0.5	0.4	0.4
170.5°	0.3	0.3	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	0.4
179°	0.3	0.3	0.3	0.3	0.4	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	0.4	0.3	0.3	0.3



TEST NUMBER: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	891.8	891.8	891.8	891.8	891.8	891.8
0.5°	891.9	891.2	891.6	891.9	891.8	891.9
1°	891.6	891.0	891.3	891.5	891.4	891.6
1.5°	891.2	890.6	891.0	890.9	890.8	891.1
2°	890.8	890.1	890.3	890.0	889.9	890.5
2.5°	889.9	889.6	889.6	889.0	889.0	889.7
3°	889.1	889.0	888.8	887.7	887.4	888.8
3.5°	888.0	888.1	887.6	886.1	885.6	887.4
4°	886.6	886.9	886.3	884.3	883.6	885.8
4.5°	884.8	885.6	884.7	882.2	881.4	883.9
5°	882.9	884.0	883.0	879.9	878.9	881.8
5.5°	881.0	882.2	881.1	877.5	876.4	879.3
6°	878.7	880.0	878.9	875.1	873.5	876.8
6.5°	876.2	877.8	876.5	872.6	871.0	873.9
7°	873.5	874.9	873.9	869.9	868.0	870.9
7.5°	870.6	871.8	870.8	867.3	865.2	867.5
8°	867.4	868.2	867.4	864.0	862.0	864.1
8.5°	863.9	864.1	863.5	860.8	858.7	860.2
9°	859.8	859.3	859.1	856.9	855.1	856.1
9.5°	855.2	854.0	854.0	852.6	851.0	851.5
10°	849.9	847.6	848.2	847.5	846.5	846.7
10.5°	843.8	840.6	841.4	842.0	841.5	841.4
11°	837.0	832.7	833.8	835.4	835.8	835.4
11.5°	828.9	823.9	825.3	828.0	829.3	828.9
12°	820.4	814.4	816.2	819.5	821.7	821.6
12.5°	811.2	805.0	806.7	810.8	813.5	814.1
13°	801.9	795.1	796.9	801.5	805.3	806.2
13.5°	792.2	785.4	787.0	791.9	796.6	798.0
14°	782.4	775.1	777.0	782.2	787.3	789.4
14.5°	772.4	765.1	766.9	772.5	778.0	780.8
15°	762.3	754.7	756.6	762.4	768.5	772.0
15.5°	752.5	744.8	746.7	752.9	758.8	762.8
16°	742.8	734.9	737.1	743.0	749.1	753.8
16.5°	733.0	725.6	727.5	733.5	740.0	744.8
17°	723.6	715.8	717.7	724.1	730.4	735.5
17.5°	714.3	706.2	708.5	714.5	721.1	726.0
18°	705.0	696.6	698.9	705.1	711.4	716.6
18.5°	695.4	687.1	689.4	695.8	702.0	707.2
19°	686.4	677.7	680.3	686.5	692.4	697.9
19.5°	677.6	668.0	671.1	677.3	683.2	688.6
20°	668.8	659.0	662.2	668.1	673.7	679.2
20.5°	660.0	649.6	653.0	659.2	664.4	669.9
21°	651.2	640.7	643.9	649.8	655.0	660.5
21.5°	642.4	631.4	634.8	640.7	645.5	651.2
22°	633.3	622.3	625.7	631.3	636.2	641.4

TEST NUMBER: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	624.0	612.8	616.1	622.0	626.3	631.6
23°	613.8	602.7	605.9	611.9	615.8	620.9
23.5°	602.7	591.8	595.1	601.1	605.3	610.3
24°	591.5	580.0	583.7	589.7	593.9	599.0
24.5°	579.9	567.1	571.8	577.4	581.9	587.6
25°	567.7	554.9	559.4	564.7	569.3	575.7
25.5°	555.0	542.4	546.8	551.5	556.8	564.0
26°	542.2	530.1	534.0	537.9	543.8	552.2
26.5°	529.0	517.2	521.0	524.2	530.5	540.6
27°	515.3	505.0	507.9	510.3	516.7	528.2
27.5°	501.5	492.6	494.3	496.5	503.1	516.0
28°	487.3	479.7	480.8	482.8	490.3	503.3
28.5°	473.4	466.8	467.4	469.3	477.4	490.5
29°	459.8	453.7	454.1	456.1	464.7	477.1
29.5°	446.5	440.1	440.7	443.1	452.3	464.0
30°	433.2	426.4	427.0	430.3	440.1	450.1
30.5°	419.9	412.2	413.3	417.4	427.5	436.7
31°	406.9	398.6	399.7	404.5	414.9	423.2
31.5°	393.9	384.6	386.3	391.7	402.1	409.9
32°	381.2	371.1	373.0	378.7	388.9	396.5
32.5°	368.5	357.8	359.9	365.8	375.8	383.5
33°	355.7	344.7	347.2	352.8	362.5	370.5
33.5°	342.8	331.4	334.8	339.6	349.0	357.4
34°	330.2	316.7	323.1	327.0	335.6	344.5
34.5°	317.6	304.9	310.8	315.0	322.6	331.4
35°	305.4	293.1	298.6	303.0	310.4	316.1
35.5°	293.1	281.3	286.4	291.0	298.2	304.0
36°	281.5	269.5	274.2	279.0	285.9	291.9
36.5°	269.7	258.1	262.0	267.0	273.7	279.8
37°	258.0	246.8	250.4	255.7	261.4	267.7
37.5°	246.6	235.9	238.9	244.5	250.0	255.1
38°	235.5	225.4	227.6	233.8	238.8	242.8
38.5°	224.7	215.1	216.7	222.8	227.4	230.9
39°	214.1	205.1	206.7	212.2	216.5	219.5
39.5°	203.6	195.0	196.6	201.4	205.5	208.2
40°	193.2	185.1	186.7	191.0	194.5	197.2
40.5°	183.4	175.8	177.2	180.7	183.6	186.8
41°	173.7	166.7	168.1	170.6	173.3	176.6
41.5°	164.4	158.0	159.1	161.0	163.0	166.6
42°	155.2	149.5	150.3	151.7	153.3	157.2
42.5°	146.2	141.4	141.9	142.2	143.8	148.1
43°	137.7	133.6	133.6	133.8	134.9	139.2
43.5°	129.4	125.9	125.7	125.0	126.1	130.5
44°	121.6	118.5	118.1	116.7	117.8	122.4
44.5°	114.0	111.3	110.9	108.5	109.6	114.5

TEST NUMBER: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	106.6	104.4	103.7	100.9	101.8	106.8
45.5°	99.6	97.8	97.1	93.4	94.4	99.4
46°	92.8	91.5	90.6	86.4	87.4	92.6
46.5°	86.5	85.3	84.4	79.8	80.7	85.8
47°	80.7	79.3	78.5	73.7	74.3	79.5
47.5°	74.9	73.6	72.7	67.9	68.5	73.3
48°	69.1	68.2	67.3	62.6	63.0	67.7
48.5°	63.2	63.1	62.1	57.7	58.0	62.2
49°	58.1	58.1	57.2	53.2	53.1	57.1
49.5°	53.3	53.4	52.5	49.0	49.0	52.2
50°	48.9	48.8	47.9	45.0	44.9	47.5
50.5°	44.6	44.5	43.7	41.3	41.1	43.0
51°	40.6	40.4	39.8	37.8	37.4	38.9
51.5°	36.8	36.4	36.0	34.4	34.1	35.0
52°	33.2	32.8	32.4	31.1	31.1	31.3
52.5°	29.8	29.7	29.4	28.2	28.1	28.1
53°	26.6	26.6	26.4	25.3	25.1	25.0
53.5°	23.6	23.5	23.4	22.4	22.1	21.8
54°	20.7	20.4	20.4	19.5	19.1	18.6
54.5°	18.0	17.3	17.4	17.1	16.6	16.1
55°	15.6	14.9	15.0	14.8	14.3	13.8
55.5°	13.5	12.9	13.0	12.7	12.3	11.8
56°	11.4	10.8	10.9	10.7	10.3	9.7
56.5°	10.0	8.8	9.0	8.8	8.4	7.9
57°	8.7	7.3	7.4	7.2	6.8	6.4
57.5°	7.3	6.1	6.2	6.0	5.7	5.3
58°	6.0	5.2	5.3	5.1	4.8	4.5
58.5°	4.6	4.5	4.6	4.4	4.1	3.9
59°	4.0	3.9	4.1	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°	2.9	3.0	3.0	3.0	2.7	2.5
61°	2.6	2.7	2.8	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	1.9	1.7	1.6
63.5°	1.7	1.7	1.8	1.7	1.6	1.5
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	1.2	1.1	1.0	0.9
67°	1.0	1.0	1.1	1.0	0.9	0.8

TEST NUMBER: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-ME-5000K

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°	0.9	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	0.8	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°	0.6	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	0.4	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: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.1	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: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-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°	0.2	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	0.2	0.2	0.1	0.1	0.1
141°	0.2	0.2	0.2	0.2	0.2	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°	0.4	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: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-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°	0.5	0.2	0.2	0.2	0.3	0.2
160°	0.5	0.2	0.2	0.3	0.3	0.3
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	0.3	0.3	0.3	0.3
165°	0.5	0.2	0.3	0.3	0.3	0.3
165.5°	0.5	0.2	0.3	0.3	0.3	0.3
166°	0.5	0.2	0.3	0.3	0.3	0.3
166.5°	0.5	0.2	0.3	0.3	0.3	0.3
167°	0.5	0.2	0.3	0.3	0.3	0.3
167.5°	0.5	0.2	0.3	0.3	0.3	0.3
168°	0.5	0.2	0.3	0.3	0.3	0.3
168.5°	0.5	0.2	0.3	0.3	0.3	0.3
169°	0.5	0.2	0.2	0.3	0.3	0.3
169.5°	0.5	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	0.3	0.3	0.3	0.3
175°	0.4	0.2	0.3	0.3	0.3	0.3
175.5°	0.4	0.3	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°	0.4	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: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590511

CATALOG NUMBER: HCDLS510CSD4TRC-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	1.9	2.9	2.2	3.2	3.5	2.9	3.9	3.2	4.2	4.5
	3H	1.8	2.7	2.2	3.0	3.4	2.8	3.7	3.2	4.0	4.4
	4H	1.7	2.6	2.1	2.9	3.3	2.7	3.6	3.1	3.9	4.3
	6H	1.6	2.4	2.0	2.8	3.2	2.6	3.4	3.0	3.8	4.2
	8H	1.6	2.3	2.0	2.7	3.1	2.6	3.3	3.0	3.7	4.1
	12H	1.5	2.2	1.9	2.6	3.0	2.5	3.2	3.0	3.6	4.0
4H	2H	1.7	2.5	2.1	2.9	3.3	2.7	3.5	3.1	3.9	4.2
	3H	1.6	2.3	2.1	2.7	3.1	2.6	3.3	3.0	3.7	4.1
	4H	1.6	2.2	2.0	2.6	3.0	2.5	3.1	3.0	3.6	4.0
	6H	1.5	2.0	1.9	2.4	2.9	2.4	3.0	2.9	3.4	3.9
	8H	1.4	1.9	1.9	2.3	2.8	2.4	2.9	2.8	3.3	3.8
	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	1.9	1.9	2.3	2.8	2.4	2.9	2.8	3.3	3.8
	6H	1.3	1.7	1.8	2.2	2.7	2.3	2.7	2.8	3.2	3.6
	8H	1.2	1.6	1.8	2.1	2.6	2.2	2.5	2.7	3.1	3.6
	12H	1.2	1.5	1.7	2.0	2.5	2.1	2.4	2.7	2.9	3.5
12H	4H	1.3	1.8	1.8	2.3	2.7	2.3	2.7	2.8	3.2	3.7
	6H	1.2	1.6	1.8	2.0	2.6	2.2	2.5	2.7	3.0	3.6
	8H	1.2	1.5	1.7	2.0	2.5	2.1	2.4	2.7	2.9	3.5

(END OF REPORT)