

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: P1590526

Luminaire Tested: HCDLS510CSD4TRH-ME-5000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590526
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: HCDLS510CSD4TRH-ME-5000K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 700 Lumens 5000K

Light Source:
Ballast/Driver: -

Summary

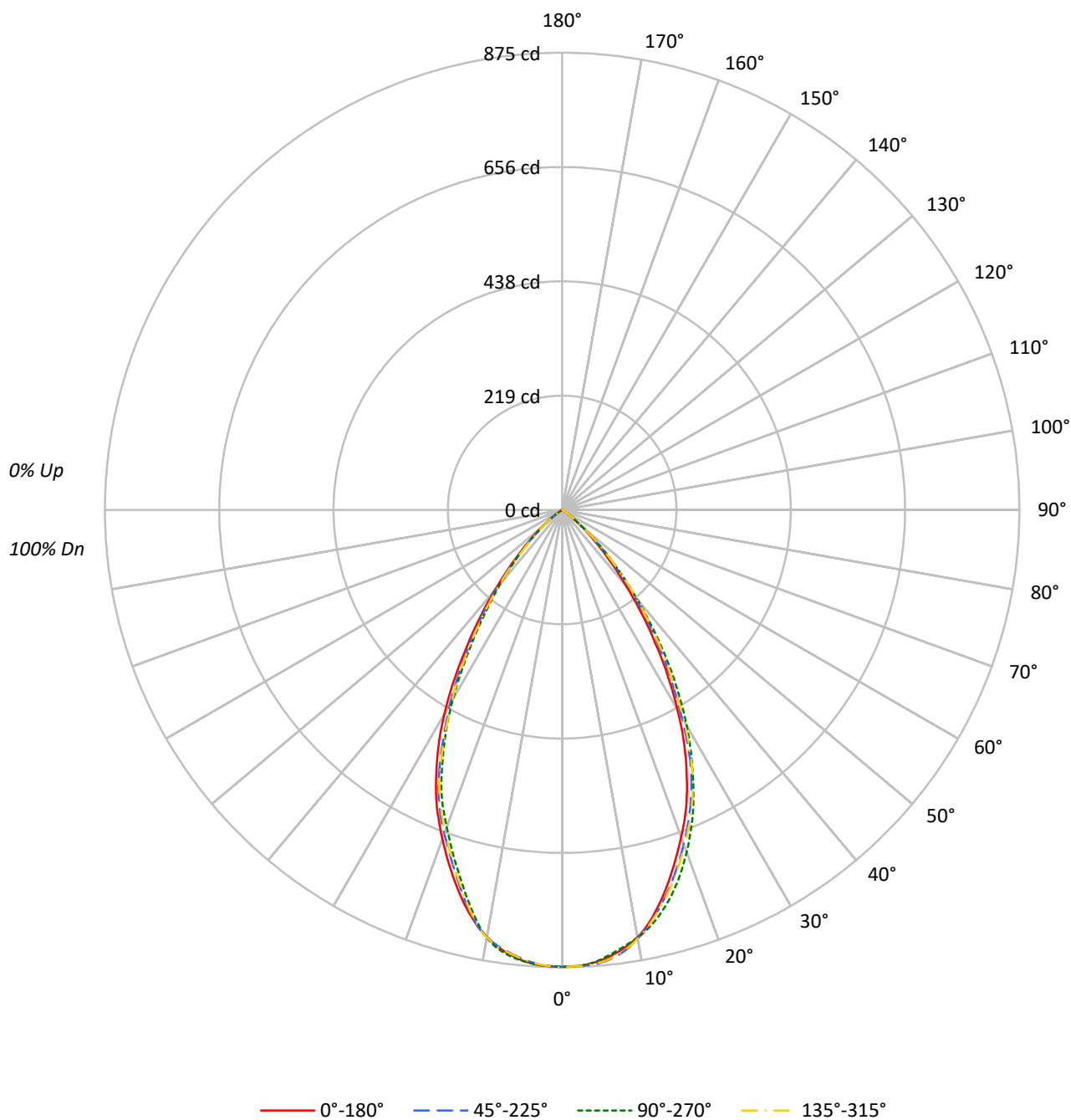
Lumens per Lamp: N/A
Luminaire Lumens: 855.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.95
Total Harmonic Distortion (THDi): =20%
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°	107841	107841	107841	107841
5°	107040	106804	107163	107300
10°	103969	104106	103944	104081
15°	96641	99361	96973	94483
20°	87407	91424	87972	84808
25°	76813	80855	77739	74037
30°	62853	67895	64206	59535
35°	46664	52536	47658	43261
40°	31124	36164	32380	29224
45°	18264	21909	19310	17845
50°	8942	10247	9575	9192
55°	2925	3097	3097	3140
60°	691	740	691	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: 21909 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	9.5
10°-20°	211.7	24.8
20°-30°	258.7	30.3
30°-40°	197.1	23.0
40°-50°	87.9	10.3
50°-60°	15.9	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°	551.9	64.6
0°-40°	749.0	87.6
0°-60°	852.8	99.7
0°-90°	854.5	99.9
90°-120°	0.0	0.0
90°-150°	0.3	0.0
90°-180°	1.0	0.1
0°-180°	855.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	874	874	874	874	874	
5°	864	863	866	867	864	81
15°	757	778	759	740	757	211
25°	564	594	571	544	564	257
35°	310	349	316	287	310	194
45°	105	126	111	102	105	83
55°	14	14	14	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°	874.3	874.3	874.3	874.3	874.3	874.3	874.3	874.3	874.3	874.3	874.3
0.5°	874.5	874.1	874.2	874.5	874.1	874.2	874.6	874.5	874.5	874.1	874.1
1°	874.1	874.1	874.2	874.5	874.1	874.2	874.4	874.4	874.1	873.8	873.8
1.5°	873.6	873.8	874.1	874.1	873.8	874.1	874.1	874.1	873.8	873.4	873.4
2°	873.0	873.3	873.8	873.8	873.3	873.5	873.8	873.8	873.2	872.5	872.7
2.5°	872.2	873.0	873.5	873.1	872.5	872.8	873.5	873.3	872.5	871.6	871.8
3°	871.4	872.5	872.9	872.2	871.4	871.8	872.8	872.8	871.6	870.3	870.5
3.5°	870.0	872.0	872.3	871.0	869.8	870.6	871.9	872.0	870.6	868.7	868.9
4°	868.5	871.2	871.7	869.5	867.8	868.9	871.1	871.2	869.2	866.7	866.9
4.5°	866.5	870.2	870.7	867.5	865.3	866.9	869.8	870.2	867.5	864.4	864.8
5°	864.5	868.9	869.2	865.2	862.6	864.3	868.2	868.9	865.5	861.9	862.4
5.5°	862.1	867.1	867.5	862.7	859.7	861.7	866.2	867.2	863.3	859.1	859.9
6°	859.6	864.9	865.4	859.9	856.6	858.8	864.1	865.2	860.7	856.3	857.3
6.5°	856.8	862.5	863.0	857.0	853.5	855.8	861.6	862.9	857.8	853.3	854.6
7°	853.8	859.5	860.0	854.0	850.4	852.7	858.6	860.0	854.6	850.2	851.8
7.5°	850.5	856.1	856.6	850.7	847.4	849.4	855.4	856.7	851.5	847.0	848.8
8°	847.2	852.4	852.8	847.0	844.2	846.0	851.7	852.8	847.7	843.8	845.7
8.5°	843.4	848.2	848.6	843.3	841.1	842.7	847.6	848.7	843.7	840.2	842.4
9°	839.3	843.5	843.8	839.4	837.8	839.0	843.0	844.0	839.5	836.5	838.7
9.5°	834.8	838.4	838.8	835.1	834.6	835.1	838.1	838.8	835.1	832.5	834.7
10°	830.1	832.9	833.2	830.6	831.2	830.8	832.8	833.2	829.9	828.2	830.2
10.5°	824.9	827.0	827.3	825.8	827.4	826.5	827.3	827.2	824.5	823.0	824.8
11°	819.0	820.8	821.1	820.6	823.2	821.8	821.4	821.1	818.8	817.6	818.9
11.5°	812.6	814.0	814.8	815.3	818.8	816.9	815.3	814.6	812.6	811.6	812.3
12°	805.5	807.0	808.2	809.3	814.1	811.6	809.2	808.0	806.1	804.7	804.6
12.5°	798.1	799.8	801.1	803.5	808.7	805.7	802.7	801.1	798.7	797.1	796.0
13°	790.4	792.5	794.2	797.2	803.4	800.0	796.1	793.7	791.8	789.3	787.6
13.5°	782.3	784.8	787.1	790.9	797.4	794.1	789.2	786.5	784.0	781.0	778.8
14°	773.9	776.9	779.9	784.1	791.1	787.5	782.2	778.9	776.2	772.5	769.6
14.5°	765.5	768.9	772.5	777.3	784.7	780.9	774.9	771.3	767.7	763.7	760.3
15°	756.8	760.8	764.8	770.2	778.1	773.9	767.8	763.5	759.4	754.7	750.7
15.5°	747.9	752.4	757.0	762.7	771.2	766.7	760.1	755.4	751.0	745.7	741.1
16°	739.0	743.8	749.0	754.8	763.8	759.2	752.3	747.1	742.2	736.3	731.6
16.5°	730.2	735.4	740.9	747.1	756.3	751.5	744.1	738.6	733.4	727.1	722.3
17°	721.1	726.8	732.6	739.1	748.5	743.5	735.8	730.0	724.4	717.8	712.9
17.5°	711.8	718.1	724.0	730.8	740.5	735.3	727.5	721.1	715.3	708.6	703.6
18°	702.5	709.1	715.3	722.1	731.9	727.1	718.8	712.4	706.4	699.4	694.4
18.5°	693.4	700.1	706.6	713.5	723.4	718.4	710.2	703.7	697.4	690.2	685.3
19°	684.2	691.0	698.1	704.8	714.5	709.7	701.6	694.8	688.0	681.3	676.2
19.5°	675.1	682.1	689.3	695.9	705.8	700.9	693.0	685.7	679.0	672.4	668.1
20°	665.9	672.9	680.5	687.0	696.5	692.2	684.4	677.1	670.2	663.5	659.4
20.5°	656.8	664.0	671.6	678.1	687.4	683.2	675.5	668.6	660.9	654.6	650.6
21°	647.6	654.7	662.5	668.8	678.1	673.9	666.7	659.7	651.7	645.6	641.9
21.5°	638.4	645.6	653.6	659.5	668.2	664.2	657.8	650.8	642.4	636.7	633.2
22°	628.8	636.1	644.3	649.6	658.3	654.6	649.0	641.9	633.1	627.8	623.5

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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°	619.2	626.9	634.9	640.2	648.4	644.9	640.2	632.9	624.6	618.0	614.0
23°	608.7	617.0	625.5	629.7	638.5	635.3	631.4	623.1	614.5	607.5	604.1
23.5°	598.3	607.2	615.8	619.8	628.5	625.6	621.4	613.4	604.1	596.9	593.5
24°	587.3	596.9	605.7	608.8	617.0	614.8	611.6	603.4	593.2	586.1	582.1
24.5°	576.1	586.3	595.9	598.2	605.7	604.0	601.5	593.0	582.3	574.6	570.2
25°	564.4	575.3	585.4	586.8	594.1	592.9	591.1	582.6	571.2	562.9	557.9
25.5°	553.0	564.3	574.8	575.9	582.7	581.7	580.4	571.9	559.9	550.9	545.0
26°	541.3	552.8	563.7	564.4	571.3	570.3	569.4	560.8	548.6	538.9	531.5
26.5°	530.0	541.3	552.3	552.7	559.6	558.7	557.9	549.1	536.9	526.5	517.9
27°	517.8	529.4	539.9	541.1	548.0	546.9	546.1	537.4	525.3	513.9	504.5
27.5°	505.8	517.6	527.2	529.1	536.7	535.4	533.9	525.3	513.7	500.9	491.5
28°	493.4	505.5	513.9	517.1	525.1	523.7	520.7	512.9	501.6	488.2	478.7
28.5°	480.9	492.4	500.1	504.6	513.4	511.5	507.7	500.2	489.3	475.2	465.7
29°	467.8	480.0	486.2	492.2	501.5	499.6	494.1	487.0	476.7	462.5	453.5
29.5°	454.9	466.9	471.8	479.7	489.4	487.2	480.2	473.3	463.8	450.0	441.1
30°	441.3	453.4	457.7	466.6	476.7	474.6	465.7	459.2	450.8	437.4	428.8
30.5°	428.1	439.2	443.8	453.1	464.1	461.5	451.5	445.0	437.3	424.7	416.2
31°	414.9	425.6	430.3	439.7	451.3	448.5	437.7	430.8	424.1	412.4	403.4
31.5°	401.9	411.2	417.1	426.2	438.5	435.3	424.3	416.5	410.4	400.0	390.7
32°	388.7	397.2	404.4	412.5	425.6	421.8	411.4	402.8	397.4	387.8	377.7
32.5°	376.0	383.0	391.6	399.1	413.1	408.5	398.5	389.4	383.4	375.2	364.8
33°	363.2	369.9	379.4	385.7	400.5	394.9	386.4	376.3	369.7	363.1	351.8
33.5°	350.4	356.0	367.0	372.3	387.8	381.5	374.0	363.5	356.0	350.4	338.6
34°	337.7	343.5	354.7	359.7	374.8	368.4	361.9	351.0	342.9	337.8	326.3
34.5°	324.9	330.3	341.9	347.2	361.8	355.6	349.6	338.7	329.4	325.0	313.7
35°	309.9	317.7	329.3	335.0	348.9	342.9	337.3	326.8	316.5	312.0	302.0
35.5°	298.0	305.6	317.1	323.1	336.0	330.5	324.9	314.3	303.9	299.2	290.5
36°	286.2	293.4	305.1	311.7	322.8	318.4	312.5	301.9	291.9	286.7	279.3
36.5°	274.3	281.3	293.0	299.9	309.9	306.1	300.2	289.7	279.5	274.4	267.9
37°	262.4	269.2	281.0	288.0	297.0	294.1	288.0	277.5	267.6	262.3	257.1
37.5°	250.1	257.0	269.0	276.2	284.4	282.3	275.9	265.2	256.0	250.4	246.1
38°	238.1	246.0	257.0	264.3	272.1	270.7	264.6	253.4	244.7	239.0	235.2
38.5°	226.4	234.8	245.9	252.6	259.7	259.0	253.2	242.0	233.4	227.9	224.1
39°	215.2	224.1	235.2	241.4	247.8	247.9	242.5	230.8	222.5	217.0	213.5
39.5°	204.1	213.2	224.3	230.1	236.1	236.4	231.8	220.1	211.7	205.9	202.9
40°	193.3	202.9	213.6	219.0	224.6	225.5	221.2	209.9	201.1	195.3	192.5
40.5°	183.1	193.0	203.2	208.1	213.5	214.0	210.6	199.6	190.5	184.9	182.3
41°	173.1	183.0	192.8	197.6	202.5	203.3	200.2	189.8	180.3	174.7	172.5
41.5°	163.3	173.3	182.3	187.3	192.1	192.5	189.9	180.2	170.5	164.8	163.2
42°	154.1	164.2	172.6	177.4	181.8	182.3	179.6	170.9	161.0	155.0	154.1
42.5°	145.2	155.0	162.7	167.5	171.9	171.9	169.4	161.5	151.9	145.8	144.9
43°	136.5	146.0	153.2	157.5	162.1	162.1	159.5	152.6	143.1	136.9	136.1
43.5°	127.9	136.9	143.8	147.8	152.5	152.2	149.9	143.7	134.4	128.3	127.2
44°	120.0	128.3	135.3	138.4	143.1	143.0	140.7	135.1	126.3	120.2	119.0
44.5°	112.2	120.0	126.6	129.2	134.1	133.7	131.7	126.5	118.3	112.4	110.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	104.7	112.1	118.4	120.2	125.6	125.0	123.0	118.4	110.7	104.8	102.6
45.5°	97.5	104.2	110.4	111.4	116.9	116.2	114.7	110.5	103.4	97.5	94.8
46°	90.8	96.9	102.6	103.1	108.8	107.9	106.6	102.8	96.1	90.7	87.9
46.5°	84.1	89.6	94.8	95.1	100.7	99.7	98.9	95.2	89.5	84.7	81.6
47°	78.0	83.1	87.5	87.6	93.3	91.9	91.2	88.1	83.5	78.7	75.4
47.5°	71.9	76.4	80.3	80.2	86.4	85.2	84.5	81.8	77.6	72.8	69.2
48°	66.4	70.4	73.5	73.4	79.6	78.5	77.8	75.5	71.6	66.8	63.0
48.5°	61.0	64.3	66.9	66.9	72.8	71.7	71.1	69.2	65.7	60.8	57.9
49°	56.0	58.8	60.6	60.9	66.0	65.0	64.4	62.9	59.8	55.8	53.3
49.5°	51.2	53.6	54.7	55.2	59.3	58.3	57.8	56.6	54.7	51.1	49.1
50°	46.6	48.6	49.1	49.7	53.4	52.7	52.2	51.3	49.9	46.7	45.1
50.5°	42.2	43.7	44.0	44.5	47.8	47.4	46.9	46.3	45.3	42.5	41.3
51°	38.2	39.3	39.3	39.8	42.8	42.5	42.0	41.6	40.9	38.7	37.8
51.5°	34.3	35.1	34.9	35.4	38.0	37.9	37.6	37.2	36.8	35.1	34.5
52°	30.7	31.3	31.0	31.3	33.6	33.7	33.3	33.1	32.9	31.6	31.3
52.5°	27.6	28.1	27.8	28.1	29.5	29.7	29.4	29.3	29.2	28.3	28.1
53°	24.5	25.0	24.7	24.9	25.8	26.0	25.8	25.7	25.6	25.1	25.1
53.5°	21.4	21.8	21.5	21.7	22.3	22.6	22.5	22.4	22.5	22.1	22.3
54°	18.3	18.6	18.4	18.5	19.3	19.6	19.5	19.3	19.5	19.3	19.6
54.5°	15.8	15.5	15.3	15.3	16.6	16.9	16.9	16.6	16.8	16.8	17.1
55°	13.6	13.3	13.1	13.1	14.4	14.6	14.6	14.3	14.4	14.5	14.8
55.5°	11.6	11.2	11.1	11.0	12.3	12.5	12.5	12.3	12.3	12.4	12.7
56°	9.5	9.2	9.0	9.0	10.3	10.4	10.4	10.9	10.8	11.0	10.7
56.5°	7.7	7.5	7.3	7.3	9.1	9.2	9.2	9.6	9.3	9.7	9.4
57°	6.3	6.0	5.9	6.0	7.9	8.0	8.0	8.2	7.8	8.3	8.1
57.5°	5.2	5.0	4.9	5.0	6.7	6.8	6.8	6.9	6.3	6.9	6.8
58°	4.4	4.2	4.2	4.3	5.5	5.7	5.6	5.6	4.8	5.5	5.6
58.5°	3.8	3.7	3.6	3.7	4.3	4.5	4.4	4.2	4.1	4.1	4.3
59°	3.3	3.2	3.2	3.3	3.8	4.0	3.9	3.7	3.6	3.6	3.7
59.5°	3.0	2.9	2.9	3.0	3.4	3.5	3.5	3.3	3.2	3.2	3.3
60°	2.8	2.7	2.7	2.8	3.0	3.2	3.1	3.0	2.8	2.8	2.9
60.5°	2.5	2.4	2.4	2.5	2.8	2.9	2.8	2.7	2.6	2.5	2.6
61°	2.2	2.1	2.1	2.2	2.5	2.6	2.6	2.4	2.3	2.3	2.4
61.5°	2.0	2.0	2.0	2.0	2.3	2.4	2.3	2.2	2.1	2.1	2.2
62°	1.8	1.8	1.8	1.9	2.1	2.2	2.1	2.0	1.9	1.9	2.0
62.5°	1.7	1.6	1.6	1.7	1.9	2.0	2.0	1.8	1.8	1.7	1.8
63°	1.5	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	1.6	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	1.4	1.3	1.3	1.3	1.3
65°	1.1	1.1	1.1	1.2	1.3	1.4	1.3	1.2	1.2	1.2	1.2
65.5°	1.0	1.0	1.0	1.1	1.2	1.3	1.2	1.2	1.1	1.1	1.1
66°	1.0	0.9	1.0	1.0	1.1	1.2	1.2	1.1	1.0	1.0	1.0
66.5°	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.0	1.0	0.9	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: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.9	0.9	0.8	0.8	0.8
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	0.7	0.7	0.7	0.7
69°	0.6	0.6	0.6	0.6	0.7	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	0.6	0.6	0.6	0.6
70°	0.5	0.5	0.5	0.6	0.6	0.7	0.6	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	0.5
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	0.4	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	0.4	0.4	0.4	0.4
72.5°	0.4	0.3	0.4	0.4	0.4	0.5	0.4	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	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3
74.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	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	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	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: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.0	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: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-ME-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
135.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
136°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
136.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
137°	0.1	0.1	0.1	0.1	0.1	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°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
142°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
142.5°	0.2	0.2	0.1	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	0.2
143.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.3	0.4	0.4
151°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	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: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-ME-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
158°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
158.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
159°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
159.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
160°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.5	0.5	0.4
160.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.5	0.5	0.5	0.5
161°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
161.5°	0.2	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	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
163°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
163.5°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
164°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
164.5°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
165°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
165.5°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
166°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
166.5°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
167°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
167.5°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
168°	0.3	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.5	0.5
168.5°	0.3	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.5	0.5
169°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.5	0.5	0.4	0.4
169.5°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	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°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
172°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
172.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
173°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
173.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
174°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
174.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175.5°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
176°	0.3	0.3	0.2	0.2	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	0.3	0.3	0.4	0.4	0.4	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: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	874.3	874.3	874.3	874.3	874.3	874.3
0.5°	874.4	873.8	874.1	874.4	874.3	874.5
1°	874.1	873.5	873.8	874.0	873.9	874.1
1.5°	873.8	873.1	873.5	873.5	873.3	873.6
2°	873.3	872.7	872.8	872.5	872.5	873.0
2.5°	872.5	872.2	872.2	871.6	871.5	872.2
3°	871.7	871.6	871.4	870.3	870.0	871.4
3.5°	870.5	870.7	870.2	868.8	868.2	870.0
4°	869.2	869.5	868.9	866.9	866.3	868.5
4.5°	867.5	868.2	867.4	864.9	864.2	866.5
5°	865.6	866.6	865.7	862.6	861.7	864.5
5.5°	863.7	864.9	863.8	860.3	859.2	862.1
6°	861.5	862.8	861.7	857.9	856.4	859.6
6.5°	859.0	860.6	859.3	855.5	853.9	856.8
7°	856.4	857.7	856.8	852.9	851.0	853.8
7.5°	853.6	854.7	853.7	850.3	848.2	850.5
8°	850.3	851.2	850.4	847.0	845.1	847.2
8.5°	847.0	847.2	846.6	843.9	841.9	843.4
9°	842.9	842.4	842.3	840.1	838.3	839.3
9.5°	838.4	837.2	837.3	835.9	834.3	834.8
10°	833.2	831.0	831.5	830.8	829.9	830.1
10.5°	827.2	824.2	824.9	825.5	825.0	824.9
11°	820.6	816.4	817.5	819.0	819.4	819.0
11.5°	812.6	807.7	809.1	811.7	813.0	812.6
12°	804.3	798.4	800.2	803.4	805.6	805.5
12.5°	795.3	789.2	790.9	794.9	797.6	798.1
13°	786.2	779.5	781.2	785.8	789.5	790.4
13.5°	776.7	770.0	771.6	776.4	780.9	782.3
14°	767.1	759.9	761.7	766.8	771.9	773.9
14.5°	757.2	750.1	751.9	757.4	762.7	765.5
15°	747.4	739.9	741.8	747.4	753.5	756.8
15.5°	737.8	730.2	732.1	738.1	743.9	747.9
16°	728.3	720.5	722.6	728.4	734.4	739.0
16.5°	718.7	711.3	713.2	719.1	725.4	730.2
17°	709.4	701.8	703.7	709.9	716.0	721.1
17.5°	700.3	692.4	694.7	700.5	707.0	711.8
18°	691.2	682.9	685.2	691.2	697.5	702.5
18.5°	681.8	673.6	675.9	682.2	688.2	693.4
19°	672.9	664.4	667.0	673.0	678.8	684.2
19.5°	664.3	654.9	657.9	664.0	669.8	675.1
20°	655.7	646.1	649.2	655.0	660.4	665.9
20.5°	647.0	636.9	640.2	646.3	651.4	656.8
21°	638.4	628.1	631.3	637.1	642.2	647.6
21.5°	629.8	619.0	622.4	628.1	632.8	638.4
22°	620.9	610.1	613.4	618.9	623.8	628.8

TEST NUMBER: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	611.8	600.8	604.1	609.8	614.0	619.2
23°	601.7	590.9	594.0	599.9	603.8	608.7
23.5°	590.9	580.2	583.4	589.3	593.5	598.3
24°	579.9	568.6	572.2	578.1	582.3	587.3
24.5°	568.5	556.0	560.6	566.1	570.5	576.1
25°	556.6	544.0	548.4	553.6	558.2	564.4
25.5°	544.1	531.8	536.1	540.6	545.9	553.0
26°	531.6	519.7	523.5	527.3	533.1	541.3
26.5°	518.6	507.1	510.8	513.9	520.1	530.0
27°	505.2	495.1	498.0	500.3	506.5	517.8
27.5°	491.7	482.9	484.6	486.7	493.3	505.8
28°	477.8	470.3	471.3	473.4	480.6	493.4
28.5°	464.1	457.6	458.3	460.1	468.0	480.9
29°	450.8	444.8	445.2	447.1	455.6	467.8
29.5°	437.8	431.5	432.1	434.4	443.4	454.9
30°	424.7	418.0	418.6	421.8	431.4	441.3
30.5°	411.7	404.1	405.2	409.2	419.1	428.1
31°	399.0	390.8	391.9	396.6	406.8	414.9
31.5°	386.2	377.1	378.7	384.0	394.2	401.9
32°	373.7	363.8	365.7	371.3	381.3	388.7
32.5°	361.2	350.8	352.9	358.6	368.4	376.0
33°	348.7	338.0	340.4	345.9	355.4	363.2
33.5°	336.1	324.9	328.2	332.9	342.2	350.4
34°	323.7	310.5	316.7	320.6	329.0	337.7
34.5°	311.4	298.9	304.7	308.8	316.3	324.9
35°	299.4	287.3	292.8	297.0	304.3	309.9
35.5°	287.4	275.8	280.8	285.3	292.3	298.0
36°	276.0	264.2	268.8	273.5	280.3	286.2
36.5°	264.4	253.0	256.8	261.7	268.3	274.3
37°	253.0	242.0	245.4	250.7	256.3	262.4
37.5°	241.8	231.2	234.2	239.7	245.1	250.1
38°	230.8	221.0	223.2	229.2	234.1	238.1
38.5°	220.2	210.9	212.4	218.4	223.0	226.4
39°	209.9	201.1	202.7	208.0	212.3	215.2
39.5°	199.6	191.2	192.8	197.4	201.4	204.1
40°	189.4	181.5	183.0	187.3	190.7	193.3
40.5°	179.8	172.3	173.7	177.1	180.0	183.1
41°	170.3	163.5	164.8	167.3	169.9	173.1
41.5°	161.1	154.9	156.0	157.9	159.8	163.3
42°	152.2	146.6	147.4	148.7	150.3	154.1
42.5°	143.4	138.6	139.1	139.5	140.9	145.2
43°	135.0	131.0	131.0	131.1	132.2	136.5
43.5°	126.9	123.4	123.3	122.5	123.6	127.9
44°	119.2	116.1	115.8	114.4	115.4	120.0
44.5°	111.7	109.1	108.7	106.4	107.4	112.2

TEST NUMBER: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	104.5	102.3	101.7	98.9	99.8	104.7
45.5°	97.6	95.8	95.2	91.6	92.6	97.5
46°	91.0	89.7	88.9	84.7	85.7	90.8
46.5°	84.8	83.6	82.8	78.2	79.1	84.1
47°	79.1	77.8	76.9	72.2	72.9	78.0
47.5°	73.4	72.2	71.3	66.6	67.1	71.9
48°	67.7	66.8	66.0	61.4	61.8	66.4
48.5°	62.0	61.8	60.9	56.5	56.9	61.0
49°	57.0	57.0	56.1	52.1	52.1	56.0
49.5°	52.2	52.3	51.5	48.0	48.0	51.2
50°	47.9	47.9	47.0	44.1	44.0	46.6
50.5°	43.7	43.6	42.9	40.5	40.3	42.2
51°	39.8	39.6	39.0	37.0	36.7	38.2
51.5°	36.1	35.7	35.3	33.7	33.4	34.3
52°	32.6	32.1	31.8	30.5	30.5	30.7
52.5°	29.2	29.1	28.8	27.7	27.6	27.6
53°	26.0	26.0	25.9	24.8	24.6	24.5
53.5°	23.1	23.0	22.9	22.0	21.7	21.4
54°	20.3	20.0	20.0	19.1	18.8	18.3
54.5°	17.6	16.9	17.0	16.7	16.3	15.8
55°	15.3	14.6	14.7	14.5	14.0	13.6
55.5°	13.2	12.6	12.7	12.5	12.1	11.6
56°	11.2	10.6	10.7	10.5	10.1	9.5
56.5°	9.8	8.7	8.9	8.6	8.2	7.7
57°	8.5	7.1	7.3	7.1	6.7	6.3
57.5°	7.2	5.9	6.1	5.9	5.6	5.2
58°	5.9	5.1	5.2	5.0	4.7	4.4
58.5°	4.5	4.4	4.5	4.4	4.1	3.8
59°	3.9	3.9	4.0	3.8	3.5	3.3
59.5°	3.5	3.4	3.5	3.4	3.1	3.0
60°	3.1	3.2	3.2	3.2	2.9	2.8
60.5°	2.8	2.9	2.9	2.9	2.6	2.5
61°	2.5	2.7	2.7	2.7	2.4	2.2
61.5°	2.3	2.4	2.5	2.4	2.2	2.0
62°	2.1	2.2	2.3	2.2	2.0	1.8
62.5°	1.9	2.0	2.1	2.0	1.8	1.7
63°	1.8	1.8	1.9	1.8	1.7	1.5
63.5°	1.6	1.7	1.8	1.7	1.5	1.4
64°	1.5	1.6	1.6	1.6	1.4	1.3
64.5°	1.4	1.5	1.5	1.4	1.3	1.2
65°	1.3	1.4	1.4	1.3	1.2	1.1
65.5°	1.2	1.3	1.3	1.2	1.1	1.0
66°	1.1	1.2	1.2	1.2	1.0	1.0
66.5°	1.0	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: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.9	0.9	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	0.8	0.8	0.7	0.7
69°	0.7	0.8	0.8	0.7	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	0.6	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	0.5	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	0.2
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: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0
115.5°	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0
121.5°	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0
123.5°	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0
124.5°	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0
125.5°	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.1	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: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.1	0.1	0.1	0.1	0.1
141°	0.2	0.2	0.2	0.1	0.1	0.1
141.5°	0.2	0.2	0.2	0.2	0.2	0.1
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°	0.2	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: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-ME-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.4	0.2	0.2	0.2	0.2	0.2
158°	0.4	0.2	0.2	0.2	0.2	0.2
158.5°	0.4	0.2	0.2	0.2	0.2	0.2
159°	0.4	0.2	0.2	0.2	0.2	0.2
159.5°	0.4	0.2	0.2	0.2	0.2	0.2
160°	0.4	0.2	0.2	0.2	0.2	0.2
160.5°	0.5	0.2	0.2	0.2	0.2	0.2
161°	0.5	0.2	0.2	0.2	0.2	0.2
161.5°	0.5	0.2	0.2	0.3	0.3	0.2
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°	0.4	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	0.2
171°	0.4	0.2	0.2	0.3	0.3	0.2
171.5°	0.4	0.2	0.2	0.3	0.3	0.2
172°	0.4	0.2	0.2	0.3	0.3	0.2
172.5°	0.4	0.2	0.2	0.3	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	0.3	0.3	0.2
175°	0.4	0.2	0.2	0.3	0.3	0.2
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°	0.3	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: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590526

CATALOG NUMBER: HCDLS510CSD4TRH-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	1.8	2.8	2.2	3.1	3.5	2.8	3.8	3.1	4.1	4.4
	3H	1.7	2.6	2.1	3.0	3.3	2.7	3.6	3.1	4.0	4.3
	4H	1.7	2.5	2.1	2.9	3.2	2.6	3.5	3.0	3.8	4.2
	6H	1.6	2.3	2.0	2.7	3.1	2.5	3.3	3.0	3.7	4.1
	8H	1.5	2.2	1.9	2.6	3.0	2.5	3.2	2.9	3.6	4.0
	12H	1.4	2.1	1.9	2.5	3.0	2.4	3.1	2.9	3.5	3.9
4H	2H	1.6	2.5	2.0	2.8	3.2	2.6	3.4	3.0	3.8	4.2
	3H	1.6	2.3	2.0	2.7	3.1	2.5	3.2	2.9	3.6	4.0
	4H	1.5	2.1	1.9	2.5	3.0	2.4	3.0	2.9	3.5	3.9
	6H	1.4	1.9	1.9	2.4	2.8	2.3	2.9	2.8	3.3	3.8
	8H	1.3	1.8	1.8	2.3	2.7	2.3	2.8	2.8	3.2	3.7
	12H	1.3	1.7	1.7	2.2	2.6	2.2	2.6	2.7	3.1	3.6
8H	4H	1.3	1.8	1.8	2.3	2.7	2.3	2.8	2.7	3.2	3.7
	6H	1.2	1.6	1.7	2.1	2.6	2.2	2.6	2.7	3.1	3.5
	8H	1.1	1.5	1.7	2.0	2.5	2.1	2.4	2.6	3.0	3.5
	12H	1.1	1.4	1.6	1.9	2.5	2.0	2.3	2.6	2.8	3.4
12H	4H	1.3	1.7	1.8	2.2	2.7	2.2	2.6	2.7	3.1	3.6
	6H	1.2	1.5	1.7	2.0	2.5	2.1	2.4	2.6	2.9	3.5
	8H	1.1	1.4	1.6	1.9	2.5	2.0	2.3	2.6	2.8	3.4



(END OF REPORT)