

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: P1590525

Luminaire Tested: HCDLS510CSD4TRH-ME-4000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590525
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-4000K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 700 Lumens 4000K

Light Source:
Ballast/Driver: -

Summary

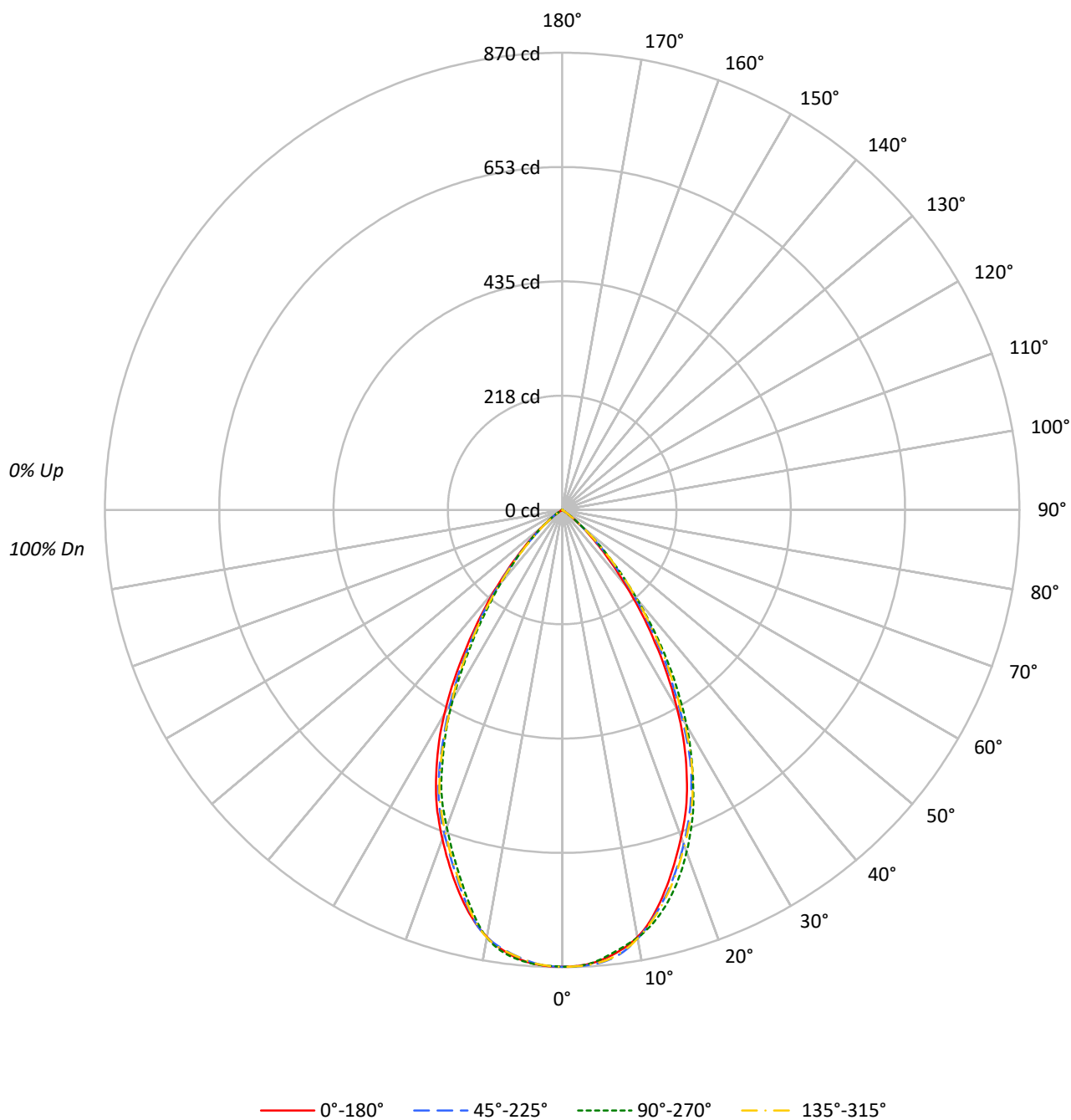
Lumens per Lamp: N/A
Luminaire Lumens: 850.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.94
Total Harmonic Distortion (THDi): =20%
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-ME-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-ME-4000K

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°	107212	107212	107212	107212
5°	106408	106185	106532	106681
10°	103355	103493	103342	103468
15°	96079	98773	96411	93921
20°	86895	90886	87460	84309
25°	76364	80379	77289	73601
30°	62483	67496	63836	59193
35°	46393	52220	47372	43020
40°	30947	35955	32187	29047
45°	18159	21770	19206	17758
50°	8885	10189	9518	9134
55°	2903	3075	3075	3118
60°	666	740	691	765
65°	321	379	350	379
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: 21770 cd/sqm

TEST NUMBER: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-ME-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	9.5
10°-20°	210.5	24.8
20°-30°	257.1	30.3
30°-40°	195.9	23.0
40°-50°	87.4	10.3
50°-60°	15.8	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°	548.7	64.6
0°-40°	744.6	87.6
0°-60°	847.8	99.7
0°-90°	849.5	99.9
90°-120°	0.0	0.0
90°-150°	0.3	0.0
90°-180°	1.0	0.1
0°-180°	850.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	869	869	869	869	869	
5°	859	858	860	862	859	81
15°	752	774	755	736	752	210
25°	561	591	568	541	561	255
35°	308	347	315	286	308	192
45°	104	125	110	102	104	83
55°	14	14	14	14	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

TEST NUMBER: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-ME-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2
0.5°	869.3	869.0	869.1	869.3	869.0	869.1	869.5	869.3	869.3	869.0	869.0
1°	869.0	869.0	869.1	869.3	869.0	869.1	869.3	869.3	869.0	868.7	868.7
1.5°	868.5	868.7	869.0	869.0	868.7	869.0	869.0	869.0	868.7	868.3	868.3
2°	867.9	868.2	868.7	868.7	868.2	868.4	868.7	868.7	868.1	867.4	867.6
2.5°	867.1	867.9	868.3	868.0	867.4	867.7	868.4	868.2	867.4	866.5	866.7
3°	866.3	867.4	867.8	867.1	866.3	866.7	867.7	867.7	866.5	865.2	865.4
3.5°	864.9	866.9	867.2	865.9	864.8	865.5	866.8	866.9	865.5	863.6	863.8
4°	863.4	866.1	866.6	864.4	862.7	863.8	866.0	866.1	864.1	861.6	861.9
4.5°	861.5	865.1	865.6	862.5	860.3	861.8	864.7	865.1	862.5	859.3	859.7
5°	859.4	863.8	864.1	860.1	857.6	859.3	863.1	863.8	860.4	856.8	857.4
5.5°	857.1	862.0	862.4	857.7	854.7	856.7	861.2	862.2	858.3	854.1	854.9
6°	854.6	859.9	860.3	854.8	851.6	853.8	859.0	860.2	855.7	851.3	852.2
6.5°	851.8	857.4	858.0	852.0	848.5	850.8	856.5	857.8	852.8	848.4	849.6
7°	848.8	854.5	855.0	849.0	845.4	847.7	853.6	855.0	849.6	845.2	846.8
7.5°	845.5	851.1	851.6	845.7	842.4	844.5	850.4	851.7	846.5	842.1	843.8
8°	842.2	847.4	847.8	842.1	839.3	841.1	846.7	847.8	842.8	838.9	840.8
8.5°	838.4	843.2	843.6	838.4	836.1	837.8	842.6	843.8	838.8	835.3	837.4
9°	834.4	838.6	838.9	834.5	832.9	834.1	838.0	839.0	834.6	831.6	833.8
9.5°	829.9	833.5	833.8	830.3	829.7	830.2	833.2	833.8	830.2	827.6	829.8
10°	825.2	828.0	828.4	825.8	826.3	826.0	828.0	828.4	825.1	823.3	825.3
10.5°	820.0	822.2	822.5	820.9	822.6	821.7	822.5	822.3	819.6	818.2	820.0
11°	814.2	816.0	816.3	815.8	818.4	817.0	816.6	816.3	814.0	812.9	814.1
11.5°	807.9	809.3	810.0	810.5	814.0	812.1	810.6	809.9	807.9	806.9	807.5
12°	800.8	802.3	803.5	804.5	809.3	806.8	804.5	803.2	801.4	800.0	799.9
12.5°	793.5	795.1	796.4	798.8	804.0	801.0	798.0	796.4	794.1	792.5	791.3
13°	785.8	787.9	789.6	792.6	798.7	795.3	791.4	789.0	787.1	784.7	783.0
13.5°	777.7	780.2	782.5	786.3	792.8	789.4	784.6	781.9	779.4	776.4	774.2
14°	769.4	772.3	775.3	779.5	786.5	782.9	777.7	774.3	771.6	768.0	765.1
14.5°	761.1	764.4	768.0	772.8	780.1	776.4	770.3	766.8	763.2	759.2	755.9
15°	752.4	756.3	760.3	765.7	773.5	769.3	763.3	759.0	755.0	750.3	746.3
15.5°	743.5	748.0	752.6	758.3	766.7	762.3	755.6	751.0	746.6	741.3	736.8
16°	734.7	739.5	744.6	750.4	759.3	754.8	747.9	742.7	737.9	732.0	727.4
16.5°	725.9	731.1	736.6	742.7	751.9	747.1	739.7	734.3	729.1	722.8	718.1
17°	716.9	722.6	728.3	734.7	744.1	739.2	731.5	725.8	720.1	713.6	708.8
17.5°	707.6	713.9	719.7	726.5	736.1	731.0	723.3	716.9	711.1	704.5	699.5
18°	698.4	705.0	711.1	717.9	727.6	722.8	714.6	708.2	702.3	695.4	690.3
18.5°	689.3	696.0	702.5	709.3	719.2	714.2	706.0	699.6	693.3	686.2	681.3
19°	680.2	687.0	694.0	700.7	710.3	705.5	697.5	690.8	684.0	677.3	672.3
19.5°	671.2	678.1	685.3	691.9	701.6	696.8	689.0	681.7	675.1	668.5	664.2
20°	662.0	668.9	676.5	683.0	692.4	688.1	680.4	673.1	666.3	659.6	655.5
20.5°	652.9	660.1	667.7	674.1	683.4	679.2	671.5	664.7	657.1	650.7	646.8
21°	643.8	650.9	658.7	664.9	674.2	669.9	662.8	655.8	647.8	641.9	638.1
21.5°	634.7	641.8	649.8	655.6	664.3	660.3	654.0	647.0	638.6	633.0	629.5
22°	625.2	632.4	640.5	645.8	654.4	650.8	645.2	638.1	629.4	624.2	619.9

TEST NUMBER: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-ME-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	615.6	623.2	631.2	636.5	644.6	641.2	636.5	629.2	621.0	614.3	610.4
23°	605.2	613.4	621.8	626.0	634.7	631.6	627.7	619.5	610.9	603.9	600.6
23.5°	594.8	603.6	612.2	616.2	624.8	622.0	617.7	609.8	600.5	593.4	590.1
24°	583.8	593.4	602.2	605.2	613.3	611.2	608.0	599.9	589.8	582.7	578.7
24.5°	572.7	582.9	592.4	594.7	602.2	600.5	598.0	589.6	578.9	571.3	566.9
25°	561.1	571.9	582.0	583.3	590.6	589.4	587.6	579.2	567.9	559.6	554.6
25.5°	549.7	561.0	571.4	572.5	579.3	578.3	577.0	568.6	556.7	547.7	541.8
26°	538.2	549.6	560.4	561.1	567.9	567.0	566.1	557.5	545.4	535.7	528.4
26.5°	526.9	538.1	549.1	549.5	556.4	555.5	554.7	545.9	533.8	523.4	514.8
27°	514.8	526.3	536.8	537.9	544.8	543.7	542.9	534.2	522.3	510.9	501.6
27.5°	502.9	514.5	524.1	526.1	533.5	532.3	530.8	522.3	510.7	498.0	488.7
28°	490.5	502.5	510.9	514.0	522.0	520.6	517.7	509.9	498.7	485.4	475.9
28.5°	478.1	489.6	497.2	501.6	510.4	508.5	504.7	497.2	486.4	472.5	463.0
29°	465.0	477.2	483.4	489.3	498.6	496.7	491.2	484.1	473.9	459.8	450.8
29.5°	452.3	464.2	469.0	476.9	486.6	484.3	477.4	470.5	461.1	447.4	438.5
30°	438.7	450.7	455.0	463.9	473.9	471.8	462.9	456.5	448.2	434.9	426.2
30.5°	425.6	436.7	441.2	450.4	461.4	458.8	448.8	442.4	434.7	422.2	413.8
31°	412.5	423.1	427.8	437.1	448.6	445.9	435.2	428.3	421.6	410.0	401.1
31.5°	399.6	408.7	414.7	423.7	436.0	432.7	421.8	414.1	408.0	397.7	388.4
32°	386.4	394.9	402.0	410.1	423.1	419.3	409.0	400.5	395.1	385.5	375.5
32.5°	373.8	380.7	389.3	396.7	410.7	406.1	396.2	387.2	381.2	373.0	362.7
33°	361.1	367.8	377.2	383.5	398.2	392.5	384.1	374.1	367.6	360.9	349.7
33.5°	348.3	354.0	364.8	370.2	385.5	379.2	371.8	361.4	353.9	348.3	336.6
34°	335.8	341.4	352.6	357.6	372.6	366.2	359.7	349.0	340.9	335.8	324.4
34.5°	323.0	328.4	339.9	345.1	359.7	353.5	347.6	336.7	327.4	323.1	311.8
35°	308.1	315.8	327.4	333.0	346.8	340.9	335.4	324.8	314.6	310.1	300.2
35.5°	296.3	303.8	315.2	321.2	334.0	328.6	323.0	312.5	302.2	297.5	288.8
36°	284.5	291.7	303.3	309.9	320.9	316.5	310.7	300.2	290.2	285.1	277.6
36.5°	272.7	279.7	291.3	298.1	308.1	304.3	298.4	288.0	277.8	272.8	266.4
37°	260.9	267.6	279.4	286.3	295.3	292.4	286.3	275.9	266.0	260.8	255.6
37.5°	248.7	255.5	267.4	274.6	282.8	280.7	274.3	263.6	254.5	248.9	244.6
38°	236.7	244.6	255.5	262.8	270.5	269.1	263.1	251.9	243.2	237.6	233.8
38.5°	225.1	233.4	244.4	251.2	258.2	257.4	251.8	240.6	232.0	226.5	222.8
39°	214.0	222.8	233.8	240.0	246.4	246.5	241.1	229.5	221.2	215.7	212.3
39.5°	202.9	212.0	222.9	228.7	234.7	235.0	230.4	218.8	210.5	204.7	201.7
40°	192.2	201.8	212.4	217.7	223.3	224.2	219.9	208.7	199.9	194.1	191.4
40.5°	182.0	191.9	202.0	206.9	212.3	212.8	209.4	198.5	189.4	183.8	181.2
41°	172.1	182.0	191.7	196.5	201.3	202.1	199.0	188.7	179.3	173.7	171.5
41.5°	162.4	172.3	181.2	186.2	190.9	191.4	188.8	179.1	169.5	163.9	162.2
42°	153.2	163.2	171.5	176.4	180.7	181.2	178.5	169.9	160.1	154.1	153.2
42.5°	144.4	154.1	161.8	166.5	170.8	170.9	168.4	160.6	151.0	144.9	144.1
43°	135.7	145.1	152.3	156.6	161.1	161.1	158.6	151.7	142.3	136.1	135.3
43.5°	127.2	136.1	143.0	147.0	151.6	151.3	149.1	142.8	133.6	127.6	126.5
44°	119.3	127.6	134.5	137.6	142.3	142.2	139.9	134.3	125.5	119.5	118.4
44.5°	111.6	119.3	125.9	128.4	133.3	133.0	130.9	125.8	117.6	111.7	109.9

TEST NUMBER: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-ME-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	104.1	111.4	117.7	119.5	124.8	124.3	122.3	117.7	110.1	104.2	102.0
45.5°	96.9	103.6	109.8	110.8	116.2	115.5	114.0	109.8	102.8	97.0	94.3
46°	90.3	96.4	102.0	102.5	108.1	107.3	106.0	102.2	95.6	90.2	87.4
46.5°	83.7	89.1	94.3	94.6	100.1	99.1	98.3	94.7	88.9	84.2	81.2
47°	77.5	82.6	86.9	87.0	92.7	91.4	90.6	87.6	83.0	78.3	75.0
47.5°	71.5	75.9	79.8	79.8	85.9	84.7	84.0	81.3	77.1	72.3	68.8
48°	66.0	70.0	73.0	72.9	79.2	78.0	77.3	75.0	71.2	66.4	62.6
48.5°	60.6	63.9	66.5	66.5	72.4	71.3	70.7	68.8	65.3	60.5	57.6
49°	55.6	58.5	60.3	60.5	65.6	64.6	64.1	62.5	59.4	55.5	53.0
49.5°	50.9	53.3	54.3	54.8	58.9	57.9	57.4	56.3	54.4	50.8	48.8
50°	46.3	48.3	48.8	49.4	53.1	52.4	51.9	51.0	49.6	46.4	44.8
50.5°	41.9	43.4	43.7	44.3	47.6	47.1	46.6	46.0	45.0	42.3	41.1
51°	37.9	39.1	39.1	39.6	42.5	42.3	41.8	41.4	40.7	38.5	37.5
51.5°	34.1	34.9	34.7	35.2	37.8	37.7	37.4	37.0	36.6	34.9	34.3
52°	30.5	31.1	30.8	31.2	33.4	33.5	33.1	32.9	32.7	31.4	31.1
52.5°	27.4	28.0	27.7	28.0	29.3	29.5	29.2	29.1	29.0	28.1	28.0
53°	24.3	24.8	24.5	24.8	25.6	25.9	25.7	25.5	25.5	25.0	25.0
53.5°	21.2	21.7	21.4	21.6	22.2	22.5	22.4	22.2	22.3	22.0	22.2
54°	18.2	18.5	18.3	18.4	19.2	19.4	19.4	19.2	19.3	19.2	19.5
54.5°	15.7	15.4	15.2	15.2	16.5	16.8	16.8	16.5	16.7	16.7	17.0
55°	13.5	13.2	13.0	13.0	14.3	14.5	14.5	14.3	14.3	14.4	14.7
55.5°	11.5	11.2	11.0	11.0	12.2	12.4	12.4	12.2	12.3	12.4	12.6
56°	9.5	9.2	9.0	9.0	10.2	10.3	10.3	10.9	10.7	11.0	10.6
56.5°	7.7	7.4	7.3	7.3	9.0	9.1	9.1	9.5	9.2	9.6	9.3
57°	6.2	6.0	5.9	6.0	7.8	8.0	8.0	8.2	7.7	8.2	8.1
57.5°	5.1	5.0	4.9	5.0	6.6	6.8	6.8	6.9	6.2	6.8	6.8
58°	4.4	4.2	4.2	4.3	5.5	5.6	5.6	5.5	4.7	5.5	5.5
58.5°	3.8	3.6	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	3.9	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	3.1	3.3
60°	2.7	2.7	2.6	2.7	3.0	3.2	3.1	2.9	2.8	2.8	2.9
60.5°	2.5	2.4	2.4	2.5	2.7	2.9	2.8	2.7	2.5	2.5	2.6
61°	2.2	2.1	2.1	2.2	2.5	2.6	2.5	2.4	2.3	2.3	2.4
61.5°	2.0	1.9	1.9	2.0	2.3	2.4	2.3	2.2	2.1	2.1	2.1
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	1.8	1.8	1.7	1.6	1.6	1.6
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	1.3	1.5	1.6	1.5	1.4	1.4	1.4	1.4
64.5°	1.2	1.2	1.2	1.2	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: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.8
68°	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.8	0.8	0.8	0.8
68.5°	0.7	0.6	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	0.7	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°	0.4	0.4	0.4	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	0.3	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	0.3	0.3	0.3	0.3	0.3
74.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	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°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	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: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.0	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: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.1
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	0.1	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	0.1	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	0.2	0.2	0.2	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	0.3	0.3
151°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	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: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.4	0.4
159.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
160°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.5	0.4
160.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.5	0.5	0.5
161°	0.2	0.2	0.2	0.2	0.4	0.4	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°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
162.5°	0.2	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	0.4	0.4	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	0.4	0.4
169°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
169.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
170°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
170.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
172°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
172.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
173°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
173.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
174°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
174.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175.5°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
176°	0.3	0.2	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	0.3	0.4	0.4	0.4	0.4	0.4	0.3
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: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	869.2	869.2	869.2	869.2	869.2	869.2
0.5°	869.3	868.7	869.0	869.3	869.2	869.3
1°	869.0	868.4	868.7	868.9	868.8	869.0
1.5°	868.7	868.0	868.4	868.3	868.2	868.5
2°	868.2	867.6	867.7	867.4	867.4	867.9
2.5°	867.4	867.1	867.1	866.5	866.4	867.1
3°	866.6	866.5	866.3	865.2	864.9	866.3
3.5°	865.4	865.6	865.1	863.7	863.2	864.9
4°	864.2	864.5	863.8	861.9	861.3	863.4
4.5°	862.4	863.2	862.3	859.9	859.1	861.5
5°	860.6	861.6	860.6	857.6	856.7	859.4
5.5°	858.7	859.8	858.7	855.3	854.2	857.1
6°	856.4	857.7	856.7	852.9	851.4	854.6
6.5°	854.0	855.5	854.3	850.5	848.9	851.8
7°	851.4	852.7	851.8	847.9	846.0	848.8
7.5°	848.6	849.7	848.7	845.3	843.2	845.5
8°	845.4	846.2	845.4	842.1	840.2	842.2
8.5°	842.0	842.2	841.6	839.0	837.0	838.4
9°	838.0	837.5	837.4	835.1	833.4	834.4
9.5°	833.5	832.3	832.4	831.0	829.4	829.9
10°	828.4	826.1	826.7	826.0	825.1	825.2
10.5°	822.4	819.3	820.0	820.6	820.2	820.0
11°	815.8	811.6	812.7	814.2	814.6	814.2
11.5°	807.9	803.0	804.4	807.0	808.3	807.9
12°	799.6	793.8	795.5	798.7	800.9	800.8
12.5°	790.6	784.6	786.3	790.3	792.9	793.5
13°	781.6	774.9	776.7	781.2	784.9	785.8
13.5°	772.2	765.5	767.1	771.9	776.4	777.7
14°	762.6	755.5	757.3	762.3	767.4	769.4
14.5°	752.8	745.7	747.5	752.9	758.3	761.1
15°	743.0	735.5	737.4	743.0	749.1	752.4
15.5°	733.5	725.9	727.8	733.8	739.6	743.5
16°	724.0	716.3	718.4	724.1	730.1	734.7
16.5°	714.5	707.2	709.1	714.9	721.2	725.9
17°	705.3	697.6	699.6	705.7	711.9	716.9
17.5°	696.2	688.3	690.6	696.4	702.8	707.6
18°	687.1	678.9	681.2	687.2	693.4	698.4
18.5°	677.8	669.7	671.9	678.2	684.2	689.3
19°	669.0	660.5	663.1	669.1	674.9	680.2
19.5°	660.4	651.1	654.1	660.1	665.9	671.2
20°	651.8	642.3	645.4	651.2	656.6	662.0
20.5°	643.3	633.2	636.4	642.5	647.6	652.9
21°	634.7	624.5	627.6	633.4	638.4	643.8
21.5°	626.1	615.4	618.7	624.4	629.1	634.7
22°	617.3	606.5	609.9	615.3	620.1	625.2

TEST NUMBER: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	608.2	597.3	600.5	606.2	610.4	615.6
23°	598.2	587.4	590.5	596.4	600.2	605.2
23.5°	587.5	576.8	580.0	585.9	590.0	594.8
24°	576.5	565.3	568.9	574.7	578.9	583.8
24.5°	565.2	552.7	557.3	562.7	567.2	572.7
25°	553.4	540.8	545.2	550.4	554.9	561.1
25.5°	540.9	528.7	532.9	537.5	542.7	549.7
26°	528.5	516.7	520.5	524.2	530.0	538.2
26.5°	515.6	504.1	507.8	510.9	517.1	526.9
27°	502.3	492.2	495.0	497.4	503.6	514.8
27.5°	488.8	480.1	481.8	483.9	490.4	502.9
28°	475.0	467.6	468.6	470.6	477.8	490.5
28.5°	461.4	455.0	455.6	457.4	465.3	478.1
29°	448.2	442.2	442.6	444.5	453.0	465.0
29.5°	435.2	428.9	429.6	431.8	440.8	452.3
30°	422.3	415.6	416.2	419.4	428.9	438.7
30.5°	409.3	401.7	402.9	406.8	416.6	425.6
31°	396.6	388.5	389.6	394.2	404.4	412.5
31.5°	383.9	374.9	376.5	381.7	391.9	399.6
32°	371.5	361.7	363.6	369.1	379.1	386.4
32.5°	359.1	348.7	350.8	356.5	366.3	373.8
33°	346.7	336.0	338.4	343.9	353.3	361.1
33.5°	334.1	323.0	326.3	331.0	340.2	348.3
34°	321.8	308.6	314.9	318.7	327.1	335.8
34.5°	309.5	297.1	303.0	307.0	314.5	323.0
35°	297.7	285.7	291.1	295.3	302.5	308.1
35.5°	285.7	274.2	279.1	283.6	290.6	296.3
36°	274.3	262.7	267.2	271.9	278.7	284.5
36.5°	262.8	251.6	255.3	260.2	266.7	272.7
37°	251.5	240.6	244.0	249.2	254.8	260.9
37.5°	240.4	229.9	232.9	238.3	243.7	248.7
38°	229.5	219.7	221.9	227.8	232.8	236.7
38.5°	219.0	209.6	211.2	217.1	221.7	225.1
39°	208.7	199.9	201.5	206.8	211.0	214.0
39.5°	198.5	190.1	191.6	196.3	200.3	202.9
40°	188.3	180.4	182.0	186.2	189.6	192.2
40.5°	178.7	171.3	172.7	176.1	178.9	182.0
41°	169.3	162.5	163.8	166.3	168.9	172.1
41.5°	160.2	154.0	155.0	156.9	158.9	162.4
42°	151.3	145.7	146.5	147.8	149.4	153.2
42.5°	142.5	137.8	138.3	138.6	140.1	144.4
43°	134.2	130.2	130.2	130.4	131.5	135.7
43.5°	126.2	122.7	122.5	121.8	122.9	127.2
44°	118.5	115.5	115.1	113.7	114.8	119.3
44.5°	111.1	108.5	108.0	105.8	106.8	111.6

TEST NUMBER: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	103.9	101.8	101.1	98.3	99.2	104.1
45.5°	97.1	95.3	94.6	91.1	92.1	96.9
46°	90.5	89.1	88.3	84.2	85.2	90.3
46.5°	84.3	83.1	82.3	77.8	78.6	83.7
47°	78.6	77.3	76.5	71.8	72.4	77.5
47.5°	73.0	71.8	70.9	66.2	66.7	71.5
48°	67.3	66.4	65.6	61.0	61.5	66.0
48.5°	61.6	61.5	60.5	56.2	56.5	60.6
49°	56.7	56.6	55.7	51.8	51.8	55.6
49.5°	51.9	52.0	51.2	47.8	47.7	50.9
50°	47.6	47.6	46.7	43.9	43.7	46.3
50.5°	43.4	43.4	42.6	40.2	40.0	41.9
51°	39.5	39.4	38.8	36.8	36.5	37.9
51.5°	35.9	35.5	35.1	33.5	33.2	34.1
52°	32.4	31.9	31.6	30.3	30.4	30.5
52.5°	29.0	28.9	28.6	27.5	27.4	27.4
53°	25.9	25.9	25.7	24.7	24.5	24.3
53.5°	23.0	22.9	22.8	21.8	21.6	21.2
54°	20.1	19.9	19.9	19.0	18.6	18.2
54.5°	17.5	16.8	16.9	16.6	16.2	15.7
55°	15.2	14.5	14.7	14.4	13.9	13.5
55.5°	13.1	12.5	12.7	12.4	12.0	11.5
56°	11.1	10.5	10.6	10.4	10.0	9.5
56.5°	9.8	8.6	8.8	8.6	8.2	7.7
57°	8.5	7.1	7.2	7.0	6.7	6.2
57.5°	7.1	5.9	6.0	5.9	5.5	5.1
58°	5.8	5.0	5.2	5.0	4.7	4.4
58.5°	4.5	4.4	4.5	4.3	4.0	3.8
59°	3.9	3.8	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	3.1	3.1	3.1	2.9	2.7
60.5°	2.8	2.9	2.9	2.9	2.6	2.5
61°	2.5	2.7	2.7	2.6	2.4	2.2
61.5°	2.3	2.4	2.5	2.4	2.1	2.0
62°	2.1	2.2	2.2	2.1	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	1.5	1.4	1.3
64.5°	1.4	1.5	1.5	1.4	1.3	1.2
65°	1.3	1.3	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	1.1	1.0	1.0
66.5°	1.0	1.1	1.1	1.1	1.0	0.9
67°	1.0	1.0	1.0	1.0	0.9	0.8

TEST NUMBER: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-ME-4000K

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	0.5	0.5	0.4
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	0.4	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	0.2	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	0.1
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: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-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°	0.1	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	0.1	0.1	0.1	0.1	0.1
141.5°	0.2	0.2	0.2	0.2	0.1	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°	0.3	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: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-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°	0.4	0.2	0.2	0.2	0.2	0.2
160.5°	0.4	0.2	0.2	0.2	0.2	0.2
161°	0.5	0.2	0.2	0.2	0.2	0.2
161.5°	0.5	0.2	0.2	0.2	0.2	0.2
162°	0.5	0.2	0.2	0.2	0.3	0.2
162.5°	0.5	0.2	0.2	0.3	0.3	0.2
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°	0.4	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	0.2
170°	0.4	0.2	0.2	0.3	0.3	0.2
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	0.2	0.2	0.2
172°	0.4	0.2	0.2	0.2	0.2	0.2
172.5°	0.4	0.2	0.2	0.2	0.2	0.2
173°	0.4	0.2	0.2	0.2	0.2	0.2
173.5°	0.4	0.2	0.2	0.2	0.2	0.2
174°	0.4	0.2	0.2	0.2	0.2	0.2
174.5°	0.4	0.2	0.2	0.2	0.2	0.2
175°	0.4	0.2	0.2	0.3	0.3	0.2
175.5°	0.4	0.2	0.2	0.3	0.3	0.3
176°	0.4	0.2	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: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590525

CATALOG NUMBER: HCDLS510CSD4TRH-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	2.8	2.1	3.1	3.4	2.8	3.8	3.1	4.1	4.4
	3H	1.7	2.6	2.1	2.9	3.3	2.7	3.6	3.1	3.9	4.3
	4H	1.6	2.5	2.0	2.8	3.2	2.6	3.5	3.0	3.8	4.2
	6H	1.5	2.3	1.9	2.7	3.1	2.5	3.3	2.9	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	1.8	2.5	2.9	2.4	3.1	2.8	3.5	3.9
4H	2H	1.6	2.4	2.0	2.8	3.2	2.6	3.4	3.0	3.8	4.1
	3H	1.5	2.2	1.9	2.6	3.0	2.5	3.2	2.9	3.6	4.0
	4H	1.4	2.1	1.9	2.5	2.9	2.4	3.0	2.9	3.5	3.9
	6H	1.4	1.9	1.8	2.3	2.8	2.3	2.8	2.8	3.3	3.8
	8H	1.3	1.8	1.8	2.2	2.7	2.3	2.7	2.7	3.2	3.7
	12H	1.2	1.6	1.7	2.1	2.6	2.2	2.6	2.7	3.1	3.6
8H	4H	1.3	1.8	1.8	2.2	2.7	2.3	2.7	2.7	3.2	3.7
	6H	1.2	1.6	1.7	2.1	2.6	2.2	2.5	2.7	3.0	3.5
	8H	1.1	1.4	1.6	2.0	2.5	2.1	2.4	2.6	2.9	3.4
	12H	1.0	1.3	1.6	1.8	2.4	2.0	2.3	2.5	2.8	3.4
12H	4H	1.2	1.6	1.7	2.1	2.6	2.2	2.6	2.7	3.1	3.6
	6H	1.1	1.5	1.6	1.9	2.5	2.1	2.4	2.6	2.9	3.5
	8H	1.0	1.3	1.6	1.8	2.4	2.0	2.3	2.5	2.8	3.4

(END OF REPORT)