



双臂旋转灯具式分布光度计 (LSG-1800/LSG-1700)

Brochure

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[Lead in CFL & LED Test Instruments](#)

Rev. 3/5/2019

旋转灯具式分布光度计

1. 系统配置

报价包含以下项目：

A. 角光度系统：

- ℓ 旋转台
- ℓ 控制器（置于机柜中）：与电脑连接，软件控制（只有 LSG-1800 有此项功能）
- ℓ 高精度探头（只有 LSG-1800 有此探头）
- ℓ Class A 级探头
- ℓ 激光系统
- ℓ 中英文软件

B. SLS-200W 交流标准光源

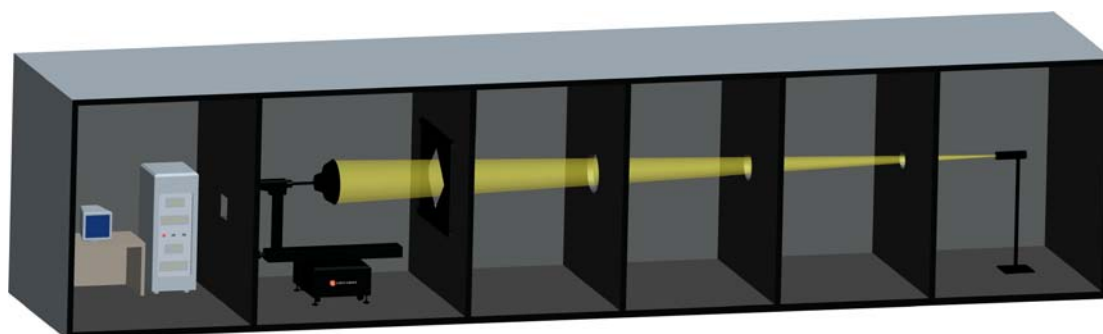
C. LS2012 交流数字电参数表：测试电压，电流，功率，功率因素，频率

D. 交流稳压电源：给被测灯供电

E. CASE-19IN 19 英寸机柜（只有 LSG-1800 有此机柜）

F. 两套多功能夹具

G. 木质包装箱



旋转灯具分布式光度计全景图

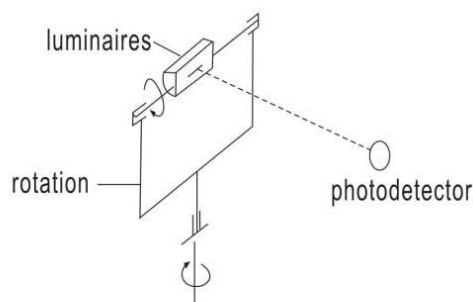
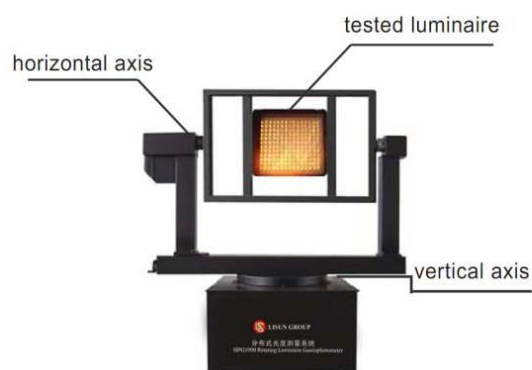
注：用户自行准备电脑和打印机（要求至少 2 个 RS-232 通讯接口）

2. 工作原理

LSG-1800/LSG-1700 采用固定探头和旋转灯具的原理。被测灯具安装在旋转台上，采用激光使得灯具发光中心与旋转中心重合。当灯具旋转时，探头测试各个水平方向上的光强参数。仪器允许灯具绕水平轴和垂直轴旋转。当灯具绕水平轴旋转时，探头测试的是同一水平面各个方向上的光强参数。当灯具绕垂直轴旋转时，探头则测试垂直平面各个方向上的光强值。灯具绕垂直轴和水平轴旋转角度为 $-180^{\circ} \sim +180^{\circ}$ 。根据测试要求，系统满足 B- β , A- α 和 C- γ 测试方案。当所有测到是所有光强参数后，软件会自动计算出其他光参数。

LSG-1800 双臂结构(B- β , A- α 坐标系)

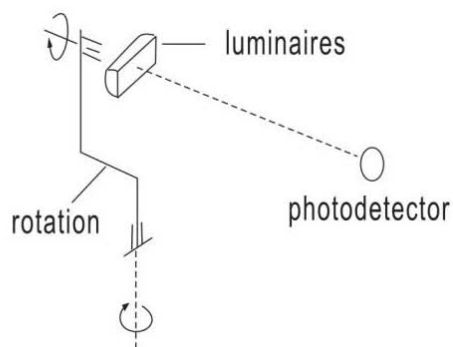
这种结构用于测试格栅灯，在 B- β 坐标系中灯具对称轴与水平旋转台需重合，在 A- α 二者垂直交叉。



Double pillars structure

LSG-1800/LSG-1700 单臂结构 (C- γ 坐标系和圆锥坐标系)

在双臂基础上取下一条辅助臂即变为单臂结构。这种结构用于固定灯管，聚光灯等。灯具发光轴应于旋转台水平轴重合。



3. 系统功能

LSG-1800/LSG-1700 分布光度计用于光强分布的测试，应用于工业实验室测试 LED 路灯，室内灯，工矿灯等各类灯具的光参数。LSG-1800/LSG-1700 可以测试空间光强分布曲线，等光强分布曲线，各个区域内的光强分布（用直角坐标系或极坐标表示），亮度限制曲线，光效，炫光等级，有效光束角，上射光通量，下射光通量，总光通量，有限系数和电参数（电压，电流，功率，功率因素，频率）。测试数据可以保存为 IES, LDT, CIE 等格式文件，可直接用于照明设计软件，如 DIALUX。



4. 技术参数:

- 满足 CIE、IEC、IES LM-79 和 GB 标准
- 能实现多种测试方式，如双臂 B-Beta 和单臂 C-Gamma (LSG-1800)以及 C-Gamma 测试(LSG-1700)
- 灯具绕(γ) $\pm 180^\circ$ (or 0-360 $^\circ$)角度旋转，灯具绕自身(C) $\pm 180^\circ$ (or 0-360 $^\circ$)角度旋转
- 光度测试范围：照度范围 0.001lx~10,000lx；光强范围 1.0cd~ 10^7 cd(探头)
- 角度精度：0.01 $^\circ$ (LSG-1800)以及 0.1 $^\circ$ (LSG-1700)
- 光度精度：1 级
- 测试精度：3%(标准光源下)；杂散光：小于 0.2%
- 中英文软件可在 WinXP, Win7 或 Win 8 下运行

最大测试灯具尺寸 (mm)	最大测试灯具尺寸		最大测试重量
	单臂 C-Gamma 测试	双臂 B-Beta 测试	
LSG-1800	1600*550	700*600	50kg
LSG-1700	1600*550	N/A	40kg

5. 实验室要求

- 暗室尺寸要求：W3.5m*H2.5m*L8m(推荐：W5m*H2.5m*15m)
- 用于放置机柜，电脑和打印机的操作室尺寸：W3.0m*L3.0m
- 墙壁，天花板和地板需使用哑光黑漆粉刷或是使用黑绒布、黑地毯覆盖。
- 暗室内用空调控制被测灯具周围的温度达到 CIE 标准要求
- 确认采购订单后，LISUN 的工程师会根据用户的实际房间尺寸免费提供暗室示意图



6. 典型海外买家:

请与 LISUN 销售联系索取买家信息。

7. 设备依据标准:

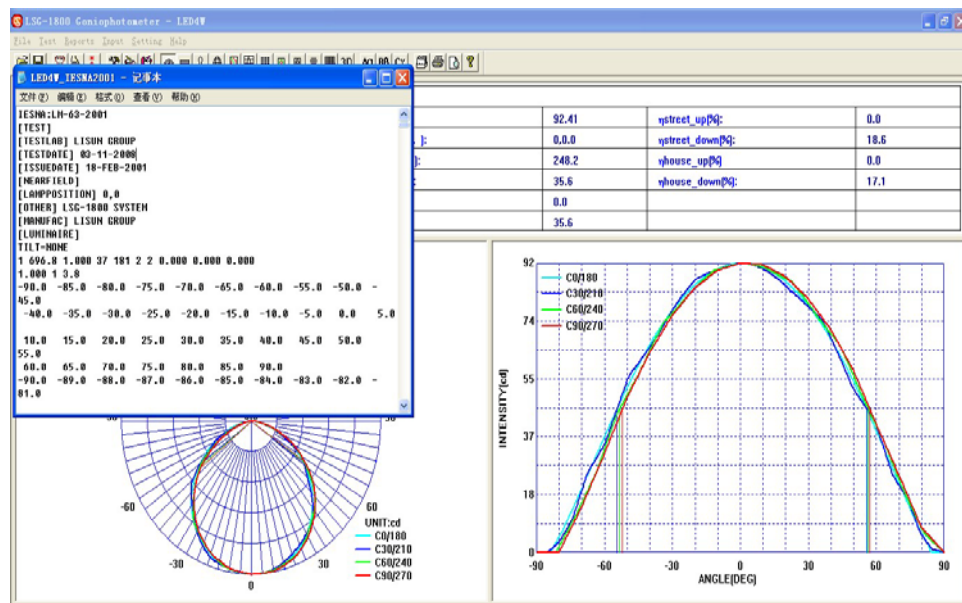
LSG-1800/LSG-1700 的结构, 技术参数, 软件, 操作步骤等均满足以下标准:

- 3.1 CIE Pub. NO.70,"The Measurement of Absolute Luminous Intensity Distributions"
- 3.2 CIE DIV. II -TC10,"Photometry of Luminaires"
- 3.3 IES LM-35-1989,"IES Approved Method for Photometric Testing of Floodlights"
- 3.4 IES LM-31,"IES Approved Method for Photometric Testing of Roadway Luminaires"
- 3.5 IES-LM-79, "Electrical and Photometric Measurements of Solid-State Lighting"
- 3.6 GB/T 9467-1988, "Luminosity Test of Indoor Luminaires"
- 3.7 GB/T 9468-1988, "Luminosity Test of Street Luminaires"
- 3.8 IES 61341 "Method of Measurement of Center Beam Intensity Angle of Lamp"
- 3.9 CIE Pub.NO.76, "Photometry-the CIE System of Physical Photometry"

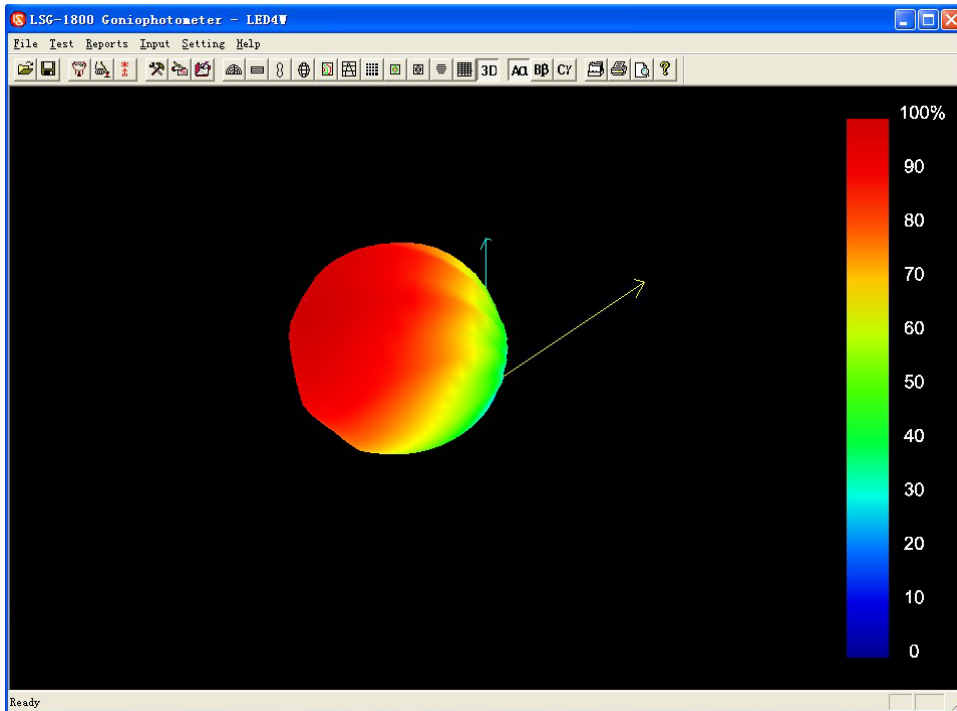
8. 应用软件

LSG-1800/LSG-1700 系统的所有操作可以由软件控制实现, 包括机械旋转, 数据采集, 实时监控, 测试报告打印等。因此测试数据更方便安全。同时软件可以导出 IES, LDT 等格式文件, 可直接用于国际照明设计软件, 如 DIALUX。

导出 IES 标准文件格式如下:



3D 光强分布图



The Next Page is the Test Report by the software

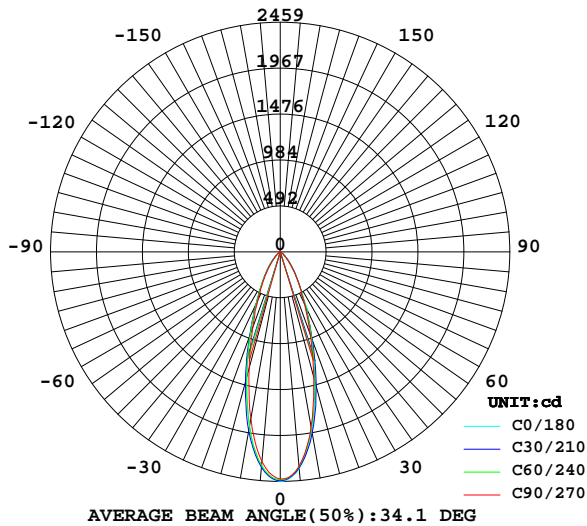
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: RP2007012212

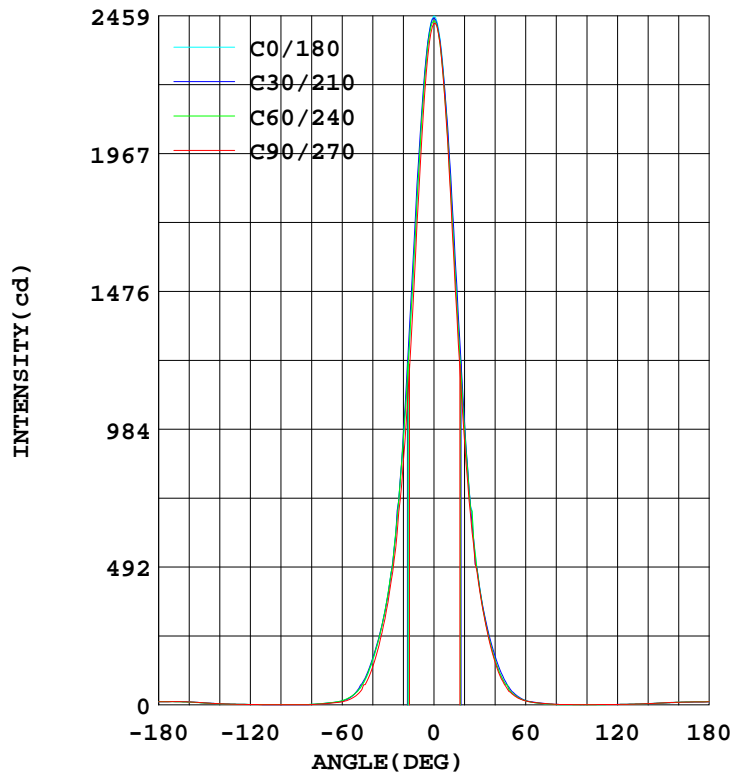
MANUFACTURER: GE Lighting	Address:#9 GARZA LANE DEL RIO, TX 78840 US	
NAME: LED Lamp	TYPE:	WEIGHT:1kg
SPECIFICATION:	DIMENSION:	SERIAL No.:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	LED22W	I _{max} (cd)	2459	S/MH(C0/180)	0.54
NOMINAL POWER(W)	490	EFFICIENCY(%)	100.0	S/MH(C90/270)	0.52
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1106.3	η UP(C0-180)	
NOMINAL FLUX(lm)	1106.4	EFFICIENCY(lm/W)	DIRECT	η DN(C0-180)	
LAMPS QUANTITY	1	η up(%)	1.8	η UP(C180-360)	
TEST VOLTAGE(V)	220.2	η down(%)	98.2	η DN(C180-360)	

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



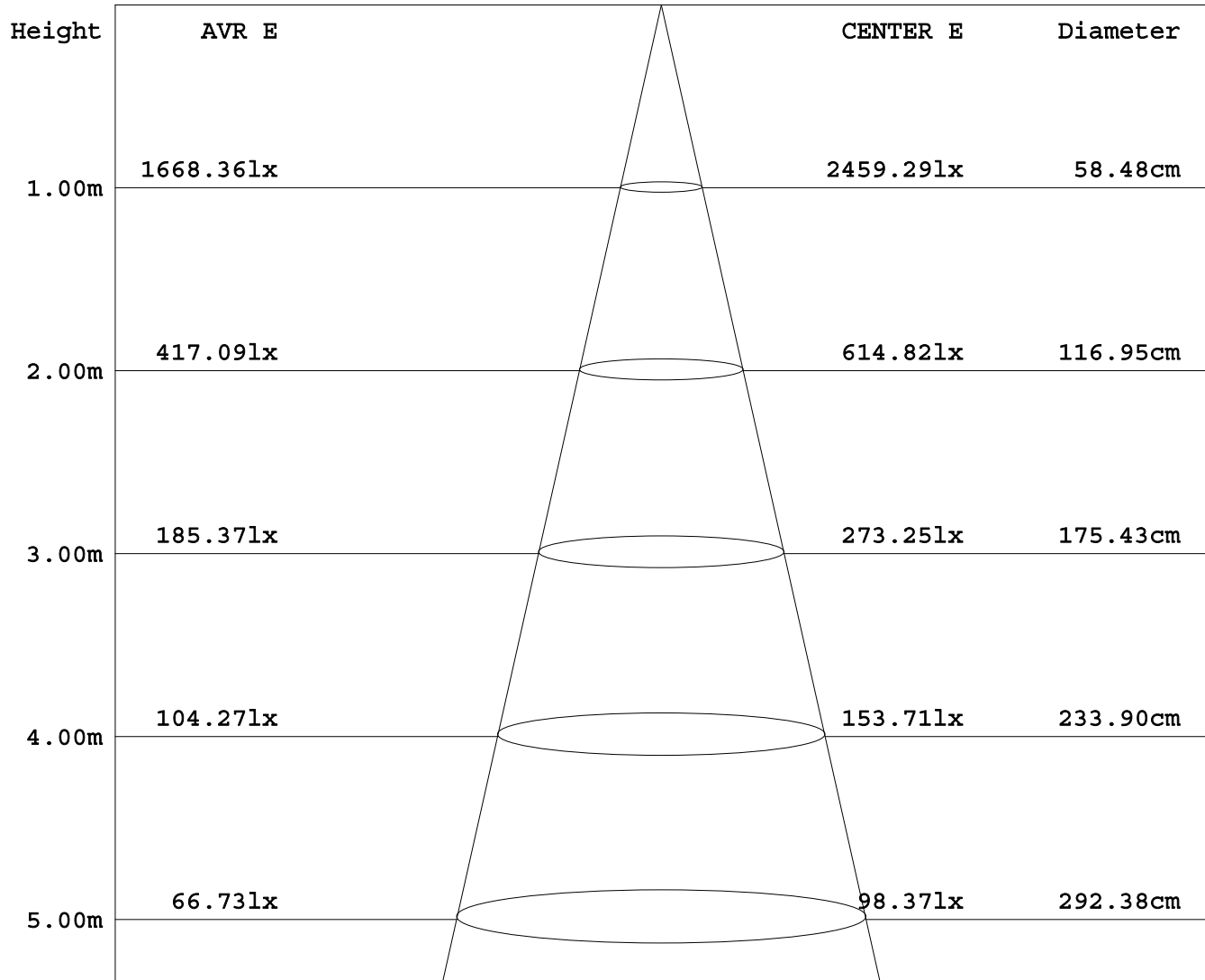
Test System:LSG-1800
 Temperature:25.3DEG
 Operators:Guillermo
 Test Date:01-22-2007

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.050 m
 Remarks:

AVERAGE AND CENTER E Figure

Report number: RP2007012212

MANUFACTURER: GE Lighting	Address:#9 GARZA LANE DEL RIO, TX 78840 US	
NAME: LED Lamp	TYPE:	WEIGHT:1kg
SPECIFICATION:	DIMENSION:	SERIAL No.:



Angle:32.6deg

Test System:LSG-1800
 Temperature:25.3DEG
 Operators:Guillermo
 Test Date:01-22-2007

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.050 m
 Remarks:

ZONAL FLUX DIAGRAM

Report number: RP2007012212

MANUFACTURER: GE Lighting	Address:#9 GARZA LANE DEL RIO, TX 78840 US	
NAME: LED Lamp	TYPE:	WEIGHT:1kg
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total
5.0	2310	2309	2257	2207	2334	2317	2308	2330	0- 5	56.03	56.03
10.0	1893	1935	1815	1741	1956	1954	1905	1947	5- 10	146.2	202.2
15.0	1387	1432	1286	1208	1446	1466	1392	1414	10- 15	185.7	388.0
20.0	939.5	959.9	865.0	790.1	996.6	1001	940.3	936.7	15- 20	179.5	567.5
25.0	615.7	611.0	560.0	507.3	693.7	666.1	616.5	606.6	20- 25	150.8	718.4
30.0	399.0	395.9	367.2	345.2	417.0	412.6	406.1	404.1	25- 30	117.4	835.8
35.0	257.1	262.7	234.5	218.8	267.0	268.8	257.6	262.6	30- 35	89.45	925.3
40.0	158.8	167.2	135.5	126.5	162.5	168.9	151.9	156.1	35- 40	63.20	988.5
45.0	89.01	95.07	72.47	63.76	91.17	97.98	84.03	83.49	40- 45	40.39	1029
50.0	48.02	51.75	37.15	31.89	49.04	50.38	45.46	41.37	45- 50	23.70	1053
55.0	26.28	26.53	19.58	16.89	25.98	28.22	24.34	21.08	50- 55	13.39	1066
60.0	14.89	14.69	11.23	10.54	14.38	15.51	14.27	12.22	55- 60	7.794	1074
65.0	9.553	9.498	7.540	7.412	8.638	9.351	9.114	8.546	60- 65	5.011	1079
70.0	6.478	6.442	4.977	4.849	5.453	6.112	6.076	5.819	65- 70	3.478	1082
75.0	3.916	3.751	2.854	2.800	3.038	3.495	3.733	3.513	70- 75	2.240	1085
80.0	2.049	1.775	1.317	1.409	1.354	1.665	2.013	1.866	75- 80	1.229	1086
85.0	1.281	1.043	0.769	1.024	0.769	1.006	1.207	0.970	80- 85	0.628	1086
90.0	1.207	1.024	0.805	1.006	0.769	0.970	1.171	0.933	85- 90	0.543	1087
95.0	1.207	1.024	0.842	1.006	0.805	0.970	1.134	0.952	90- 95	0.539	1087
100.0	1.207	1.061	0.878	1.061	0.842	1.006	1.134	0.952	95-100	0.544	1088
105.0	1.244	1.116	0.952	1.079	0.915	1.079	1.134	1.006	100-105	0.555	1089
110.0	1.281	1.207	1.024	1.152	1.061	1.171	1.207	1.098	105-110	0.579	1089
115.0	1.427	1.335	1.171	1.281	1.244	1.372	1.354	1.226	110-115	0.624	1090
120.0	1.647	1.573	1.427	1.500	1.573	1.647	1.610	1.464	115-120	0.701	1090
125.0	2.013	1.921	1.830	1.848	2.013	2.068	2.013	1.830	120-125	0.816	1091
130.0	2.525	2.379	2.379	2.305	2.671	2.617	2.562	2.305	125-130	0.971	1092
135.0	3.294	3.019	3.111	2.928	3.587	3.294	3.404	2.891	130-135	1.162	1093
140.0	4.355	3.879	4.172	3.806	4.721	4.007	4.538	3.605	135-140	1.387	1095
145.0	5.746	5.179	5.600	5.124	6.112	5.197	5.893	4.813	140-145	1.644	1096
150.0	7.503	6.771	7.320	6.753	7.540	6.515	7.357	6.149	145-150	1.874	1098
155.0	9.260	8.583	9.150	8.619	8.747	7.851	8.601	7.558	150-155	2.001	1100
160.0	10.68	10.21	10.61	10.26	9.626	9.077	9.516	8.876	155-160	1.954	1102
165.0	11.52	11.40	11.38	11.43	10.13	10.02	10.10	9.955	160-165	1.706	1104
170.0	11.71	11.98	11.52	11.91	10.35	10.72	10.39	10.68	165-170	1.297	1105
175.0	11.31	12.06	11.16	11.84	10.61	11.23	10.61	11.14	170-175	0.797	1106
180.0	10.98	11.74	10.94	11.52	11.01	11.73	10.90	11.52	175-180	0.267	1106
DBG	LUMINOUS INTENSITY:cd									UNIT:lm	

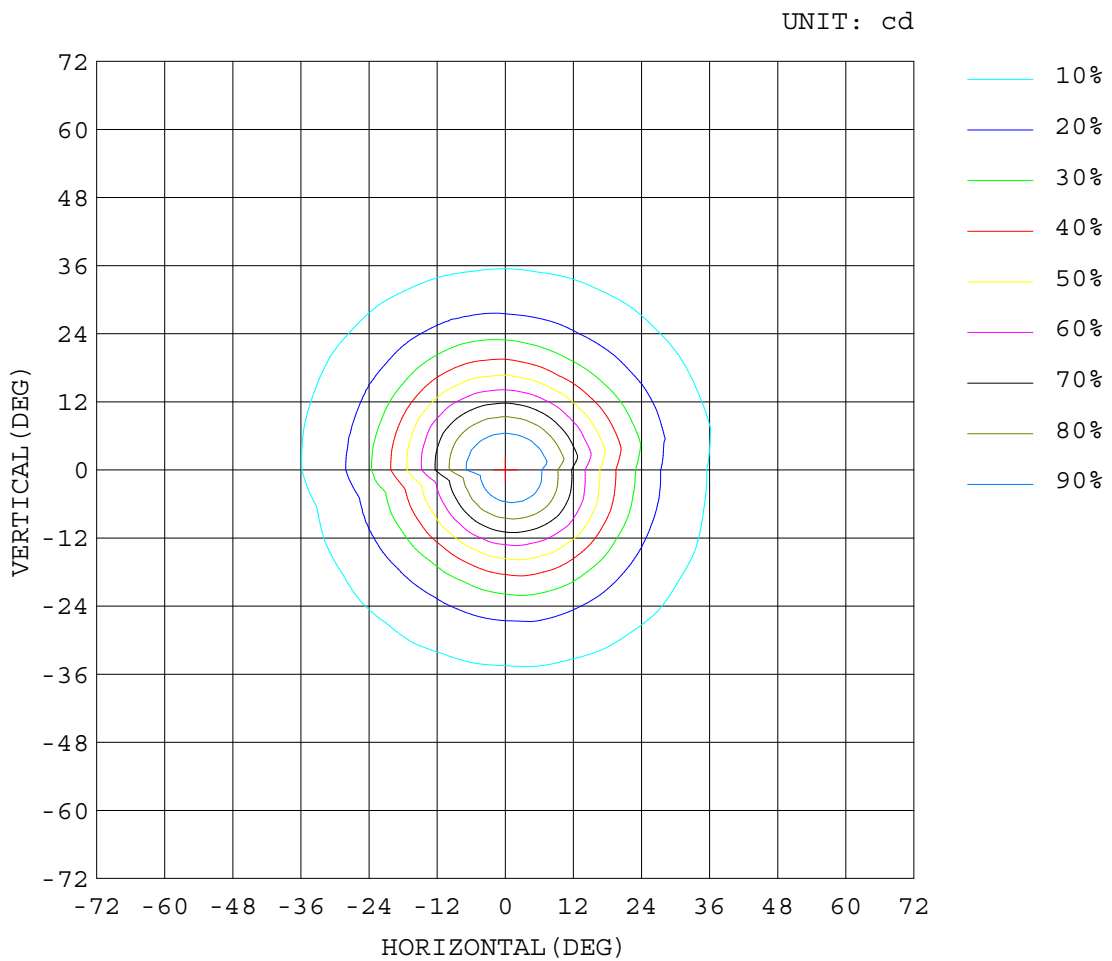
Test System:LSG-1800
 Temperature:25.3DEG
 Operators:Guillermo
 Test Date:01-22-2007

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.050 m
 Remarks:

ISOCANDELA DIAGRAM

Report number: RP2007012212

MANUFACTURER: GE Lighting	Address:#9 GARZA LANE DEL RIO, TX 78840 US	
NAME: LED Lamp	TYPE:	WEIGHT:1kg
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:LSG-1800
 Temperature:25.3DEG
 Operators:Guillermo
 Test Date:01-22-2007

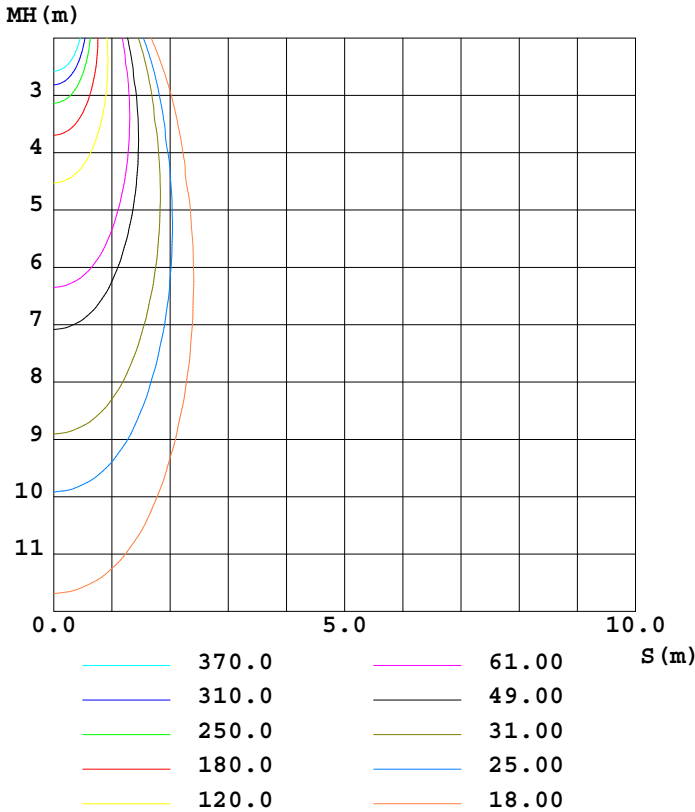
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.050 m
 Remarks:

ISOLUX DIAGRAM

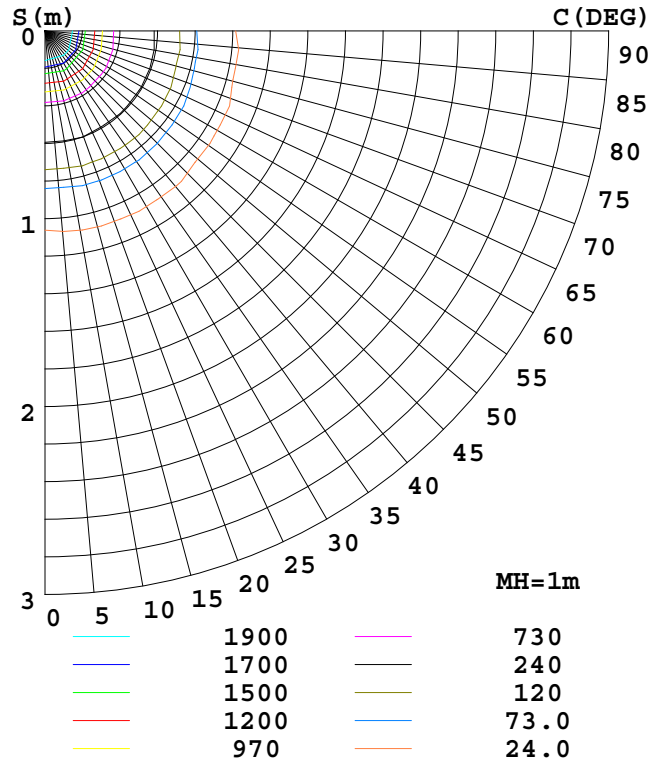
Report number: RP2007012212

MANUFACTURER: GE Lighting	Address:#9 GARZA LANE DEL RIO, TX 78840 US	
NAME: LED Lamp	TYPE:	WEIGHT:1kg
SPECIFICATION:	DIMENSION:	SERIAL No.:

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



PLANAR ISOLUX DIAGRAM (UNIT:lx)



Test System:LSG-1800
 Temperature:25.3DEG
 Operators:Guillermo
 Test Date:01-22-2007

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.050 m
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: RP2007012212

MANUFACTURER: GE Lighting	Address:#9 GARZA LANE DEL RIO, TX 78840 US	
NAME: LED Lamp	TYPE:	WEIGHT:1kg
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

C (DEG) \ γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
0.0	2459	2456	2453	2451	2450	2446	2442	2438	2436	2432	2432	2426	2424	2420	2418
5.0	2310	2314	2320	2318	2314	2305	2294	2283	2270	2257	2246	2234	2223	2211	2203
10.0	1893	1913	1938	1946	1946	1923	1898	1867	1842	1815	1798	1777	1765	1746	1736
15.0	1387	1397	1443	1442	1454	1410	1396	1346	1335	1286	1274	1233	1228	1200	1217
20.0	940	954	967	965	965	955	942	921	899	865	835	805	791	784	797
25.0	616	609	619	606	618	605	613	594	591	560	550	523	503	511	504
30.0	399	394	401	393	400	392	398	387	385	367	365	350	351	341	349
35.0	257	259	267	263	266	259	258	249	246	235	232	225	226	218	220
40.0	159	161	171	167	172	162	162	149	147	136	138	129	133	125	129
45.0	89.0	90.4	98.8	95.7	99.0	91.1	90.9	81.1	79.8	72.4	71.7	71.7	67.2	62.1	65.4
50.0	48.0	48.1	47.7	52.0	54.0	49.4	48.2	43.7	43.4	37.1	36.4	31.8	32.5	30.0	33.7
55.0	26.2	24.7	27.5	25.2	27.8	25.2	27.3	23.3	23.7	19.5	19.6	15.8	16.8	15.3	18.4
60.0	14.8	13.9	15.2	13.7	15.3	14.0	15.2	13.1	13.3	11.2	11.7	10.1	11.0	9.88	11.2
65.0	9.55	8.74	9.95	9.00	10.1	8.89	9.66	8.23	8.85	7.54	8.30	7.24	8.08	6.99	7.83
70.0	6.47	5.78	6.95	6.07	6.99	5.89	6.58	5.41	6.07	4.97	5.67	4.68	5.38	4.46	5.23
75.0	3.91	3.33	4.13	3.44	4.17	3.33	3.95	3.11	3.69	2.85	3.40	2.67	3.22	2.48	3.11
80.0	2.04	1.50	2.08	1.50	2.08	1.46	2.01	1.42	1.93	1.31	1.83	1.20	1.72	1.17	1.64
85.0	1.28	0.81	1.28	0.81	1.28	0.81	1.28	0.81	1.24	0.77	1.24	0.77	1.24	0.81	1.24
90.0	1.20	0.81	1.24	0.81	1.24	0.81	1.20	0.81	1.20	0.81	1.20	0.81	1.20	0.81	1.20
95.0	1.20	0.84	1.20	0.84	1.20	0.84	1.20	0.84	1.17	0.84	1.17	0.84	1.17	0.84	1.17
100.0	1.20	0.92	1.20	0.92	1.20	0.92	1.20	0.88	1.17	0.88	1.17	0.88	1.17	0.92	1.20
105.0	1.24	0.99	1.24	0.99	1.24	0.99	1.24	0.95	1.20	0.95	1.20	0.95	1.20	0.95	1.20
110.0	1.28	1.09	1.28	1.09	1.31	1.09	1.28	1.06	1.24	1.02	1.24	1.02	1.24	1.02	1.28
115.0	1.42	1.24	1.42	1.28	1.42	1.24	1.42	1.20	1.39	1.17	1.35	1.17	1.35	1.20	1.35
120.0	1.64	1.50	1.64	1.50	1.64	1.50	1.61	1.46	1.57	1.42	1.57	1.42	1.53	1.42	1.57
125.0	2.01	1.90	2.01	1.86	1.97	1.86	1.93	1.83	1.93	1.83	1.90	1.79	1.86	1.79	1.90
130.0	2.52	2.48	2.48	2.37	2.41	2.34	2.37	2.37	2.41	2.37	2.41	2.30	2.34	2.26	2.34
135.0	3.29	3.25	3.22	3.07	3.03	3.00	3.03	3.03	3.14	3.11	3.14	3.03	2.96	2.89	2.96
140.0	4.35	4.35	4.28	4.09	3.91	3.84	3.87	4.02	4.17	4.17	4.13	4.06	3.91	3.80	3.80
145.0	5.74	5.81	5.63	5.49	5.19	5.16	5.12	5.38	5.49	5.60	5.49	5.45	5.23	5.16	5.08
150.0	7.50	7.54	7.32	7.13	6.80	6.73	6.69	6.99	7.21	7.32	7.24	7.17	6.91	6.80	6.69
155.0	9.26	9.29	9.11	8.93	8.60	8.56	8.49	8.71	8.89	9.15	9.07	9.04	8.78	8.71	8.52
160.0	10.6	10.7	10.5	10.5	10.2	10.2	9.99	10.1	10.3	10.6	10.5	10.6	10.4	10.3	10.1
165.0	11.5	11.5	11.4	11.5	11.4	11.3	10.9	10.9	11.0	11.3	11.4	11.5	11.5	11.5	11.3
170.0	11.7	11.7	11.7	11.9	12.0	11.9	11.4	11.2	11.2	11.5	11.5	11.7	11.8	12.0	11.7
175.0	11.3	11.5	11.6	11.8	12.0	12.0	11.6	11.3	11.1	11.1	11.3	11.4	11.6	11.8	11.7
180.0	10.9	11.0	11.1	11.3	11.6	11.8	11.5	11.0	10.8	10.9	10.9	10.9	11.1	11.4	11.5

Test System:LSG-1800
 Temperature:25.3DEG
 Operators:Guillermo
 Test Date:01-22-2007

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.050 m
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: RP2007012212

MANUFACTURER: GE Lighting	Address:#9 GARZA LANE DEL RIO, TX 78840 US	
NAME: LED Lamp	TYPE:	WEIGHT:1kg
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

C (DEG) \ γ (DEG)	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290
0.0	2413	2412	2405	2459	2456	2453	2451	2450	2446	2442	2438	2436	2432	2432	2426
5.0	2191	2187	2178	2334	2331	2325	2322	2319	2315	2310	2310	2307	2308	2309	2312
10.0	1722	1728	1723	1956	1963	1968	1970	1962	1946	1930	1921	1905	1905	1903	1909
15.0	1206	1231	1226	1446	1474	1473	1494	1467	1464	1426	1422	1387	1392	1369	1383
20.0	809	827	834	997	1007	1007	1009	1003	999	985	975	954	940	920	908
25.0	525	502	540	694	649	692	642	690	643	691	641	626	617	596	591
30.0	343	352	349	417	421	410	416	409	417	411	415	403	406	393	396
35.0	214	220	218	267	273	270	273	268	270	263	263	256	258	252	257
40.0	121	128	126	163	171	169	174	169	169	160	160	151	152	147	153
45.0	71.5	69.8	70.3	91.1	99.4	97.1	103	96.6	99.3	90.4	91.2	82.7	84.0	77.9	81.8
50.0	33.0	37.5	36.8	49.0	47.9	52.5	55.7	52.5	48.2	49.2	48.4	45.3	45.4	39.6	40.4
55.0	17.6	20.6	19.6	25.9	28.5	27.1	29.7	27.3	29.0	26.6	27.5	24.1	24.3	20.7	20.9
60.0	10.3	12.2	11.4	14.3	16.3	14.5	15.8	14.5	16.5	14.6	15.8	13.5	14.2	11.8	12.7
65.0	6.84	7.86	7.02	8.63	9.88	8.82	9.95	8.82	9.88	8.63	9.55	8.23	9.11	7.94	8.93
70.0	4.39	5.23	4.46	5.45	6.44	5.67	6.58	5.70	6.51	5.52	6.25	5.30	6.07	5.19	6.03
75.0	2.41	3.07	2.41	3.03	3.87	3.11	3.91	3.11	3.87	3.07	3.80	3.00	3.73	3.00	3.69
80.0	1.06	1.57	1.02	1.35	1.93	1.35	1.93	1.35	1.97	1.39	1.97	1.42	2.01	1.46	2.04
85.0	0.81	1.24	0.77	0.77	1.20	0.73	1.20	0.77	1.24	0.73	1.20	0.73	1.20	0.73	1.20
90.0	0.81	1.20	0.81	0.77	1.17	0.77	1.17	0.77	1.17	0.77	1.17	0.77	1.17	0.73	1.13
95.0	0.84	1.17	0.84	0.81	1.13	0.81	1.17	0.81	1.13	0.77	1.13	0.77	1.13	0.77	1.13
100.0	0.88	1.17	0.88	0.84	1.13	0.84	1.17	0.84	1.17	0.84	1.13	0.84	1.13	0.81	1.09
105.0	0.95	1.20	0.95	0.92	1.20	0.95	1.20	0.95	1.20	0.92	1.17	0.88	1.13	0.88	1.13
110.0	1.06	1.28	1.06	1.06	1.28	1.06	1.28	1.06	1.28	1.06	1.24	1.02	1.20	0.99	1.20
115.0	1.20	1.39	1.24	1.24	1.42	1.28	1.46	1.28	1.46	1.24	1.39	1.20	1.35	1.17	1.35
120.0	1.46	1.61	1.53	1.57	1.72	1.57	1.72	1.57	1.72	1.53	1.64	1.50	1.61	1.46	1.57
125.0	1.83	1.97	1.93	2.01	2.12	2.01	2.12	2.01	2.12	1.97	2.04	1.93	2.01	1.86	1.93
130.0	2.34	2.48	2.52	2.67	2.74	2.67	2.70	2.59	2.63	2.59	2.63	2.56	2.56	2.45	2.45
135.0	3.00	3.18	3.33	3.58	3.62	3.58	3.47	3.29	3.29	3.33	3.44	3.44	3.40	3.33	3.22
140.0	3.87	4.17	4.46	4.72	4.75	4.68	4.39	4.02	3.98	4.35	4.57	4.61	4.53	4.46	4.28
145.0	5.19	5.49	5.92	6.11	6.03	6.00	5.60	5.23	5.16	5.60	5.85	6.00	5.89	5.81	5.56
150.0	6.80	7.10	7.61	7.54	7.43	7.32	6.84	6.55	6.47	6.91	7.21	7.43	7.35	7.24	6.91
155.0	8.56	8.74	9.15	8.74	8.67	8.49	8.08	7.86	7.83	8.19	8.45	8.67	8.60	8.49	8.16
160.0	10.0	10.1	10.5	9.62	9.55	9.40	9.11	9.07	9.07	9.40	9.44	9.62	9.51	9.51	9.18
165.0	10.9	10.9	11.0	10.1	9.99	9.99	9.84	9.99	10.0	10.2	10.1	10.1	10.1	10.0	9.91
170.0	11.4	11.1	11.1	10.3	10.3	10.2	10.2	10.6	10.8	10.8	10.5	10.5	10.3	10.4	10.3
175.0	11.4	11.0	10.9	10.6	10.6	10.6	10.7	11.1	11.3	11.2	10.8	10.7	10.6	10.6	10.6
180.0	11.2	10.7	10.7	11.0	11.0	11.1	11.3	11.7	11.7	11.5	11.0	10.8	10.9	10.9	10.9

Test System:LSG-1800
 Temperature:25.3DEG
 Operators:Guillermo
 Test Date:01-22-2007

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.050 m
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: RP2007012212

MANUFACTURER: GE Lighting	Address:#9 GARZA LANE DEL RIO, TX 78840 US	
NAME: LED Lamp	TYPE:	WEIGHT:1kg
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

C (DEG) \ γ (DEG)	300	310	320	330	340	350
0.0	2424	2420	2418	2413	2412	2405
5.0	2318	2326	2333	2339	2346	2354
10.0	1922	1940	1953	1971	1991	2018
15.0	1376	1411	1417	1462	1474	1520
20.0	904	923	951	986	1017	1047
25.0	584	599	614	643	688	690
30.0	390	402	406	426	432	451
35.0	255	262	264	275	278	291
40.0	151	157	155	163	165	178
45.0	77.7	84.6	82.3	90.4	89.6	101
50.0	37.9	41.8	40.9	47.7	48.2	54.3
55.0	18.5	21.0	21.0	24.9	25.4	29.6
60.0	11.0	12.6	11.8	14.2	13.9	16.7
65.0	7.94	9.00	8.08	9.37	8.78	10.3
70.0	5.27	6.18	5.45	6.47	5.81	6.99
75.0	3.00	3.84	3.18	4.09	3.47	4.42
80.0	1.50	2.12	1.61	2.23	1.72	2.41
85.0	0.73	1.20	0.73	1.20	0.73	1.24
90.0	0.77	1.13	0.73	1.17	0.73	1.17
95.0	0.77	1.13	0.77	1.13	0.77	1.13
100.0	0.81	1.09	0.81	1.13	0.81	1.13
105.0	0.88	1.13	0.88	1.13	0.88	1.13
110.0	0.99	1.20	0.99	1.20	0.99	1.20
115.0	1.13	1.31	1.13	1.31	1.13	1.35
120.0	1.42	1.53	1.39	1.53	1.42	1.57
125.0	1.79	1.86	1.79	1.90	1.79	1.93
130.0	2.34	2.34	2.26	2.37	2.34	2.45
135.0	3.03	2.92	2.85	3.00	3.11	3.22
140.0	3.91	3.62	3.58	3.87	4.17	4.28
145.0	5.19	4.79	4.83	5.08	5.45	5.56
150.0	6.55	6.11	6.18	6.40	6.80	6.95
155.0	7.83	7.50	7.61	7.75	8.08	8.23
160.0	9.00	8.78	8.96	9.04	9.29	9.26
165.0	9.88	9.80	10.1	10.0	10.1	9.95
170.0	10.3	10.5	10.8	10.7	10.5	10.3
175.0	10.6	10.9	11.3	11.0	10.6	10.5
180.0	11.1	11.4	11.6	11.2	10.8	10.6

Test System:LSG-1800
 Temperature:25.3DEG
 Operators:Guillermo
 Test Date:01-22-2007

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.050 m
 Remarks: