



# 紧凑型分布光度计 (LSG-1200A)

## Brochure

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**Leader in Lighting & Electrical Test Instruments**

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LSG-1200A 紧凑型分布光度计可根据被测灯的尺寸选择各种暗箱。它用于光照角度小于 180 度的 LED 芯片，LED 模组，LED 聚光灯等灯具光强分布曲线，光强参数，扩散角，光束角等其他光参数的测试。

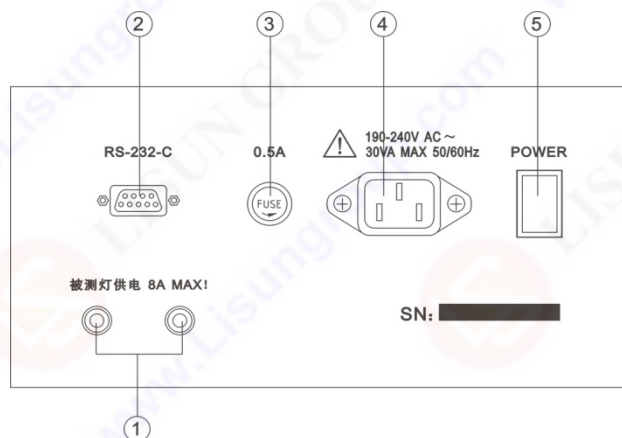
#### 可选配置：

数字电参数测量仪 (LS2010 谐波型或 LS2012 交直流型) 和交流稳压电源 (LSP-500VAR 通讯型)

#### 测试参数：

电参数，空间光强分布曲线，等光强曲线，等照度曲线，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，有效光通量，利用系数。

#### 主机后面板图：



#### 技术参数：

- LSG-1200A 自带暗箱
- 光度测试范围：0.1~30,000lx
- 光度测试精度：Class A
- 角度范围：

LSG-1200A: 水平角：-0° ~360° (自动)

垂直角：-90° ~+90° (自动)

- 角度测试精度：±0.2°
- 角度间隔：水平角：1° /5° /10° /15° /22.5° /30° /45° /90° ；  
垂直角：0.5° /2° /1.5°
- 最大可测试灯具：直径 180mm
- 被测灯具探头的距离：316mm 和 1000mm 可选
- 光束角测试：常用光墙角，1/4 光墙角，3/4 光强角，1/10 光强角等。
- 可自动绘制光强分布曲线（极坐标曲线，直角坐标曲线）
- 可导出 IES 文件，直接用于 Dialux 等照明设计软件
- 满足 IEC 和 CIE 和 LM-79 标准要求
- 工作要求：
  - a) 工作电压：AC 220V±10%
  - b) 工作频率：50Hz/60Hz
  - c) 功耗：35VA
- 工作环境要求：
  - a) 允许环境温度：0℃~40℃
  - b) 最佳环境温度：25℃±5℃
  - c) 相对湿度：≤65%R.H

### 典型海外买家：

请与 LISUN 销售部联系索取资料

下一页测试报告：

Report No.:

Test Time: 2019-05-27 15:48

## Luminaire Property

Luminaire Category:

Luminaire Manufacturer: LISUN

Lumens per Lamp: 35

Width (mm): 50

Voltage: 220 V

Power: 3 W

Number of Lamps: 5

Length (mm): 50

Height (mm): 30

Current: 0.028 A

Power Factor: 0.478

## Photometric Results

CIE Class: Direct

Measurement Flux: 126.7 lm

Downward Ratio: 72.42%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 50.4, 51.0, 50.8, 50.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 27.7, 27.7, 27.7, 27.7

Luminaire Efficacy Rating (LER): 42.30

Max. Intensity: 440.35 cd

S/MH(C0/C180): 0.47

Total Rated Lamp Lumens: 175.0 lm

Efficiency: 72.42%

Upward Ratio: 0.00%

Central Intensity: 435.54 cd

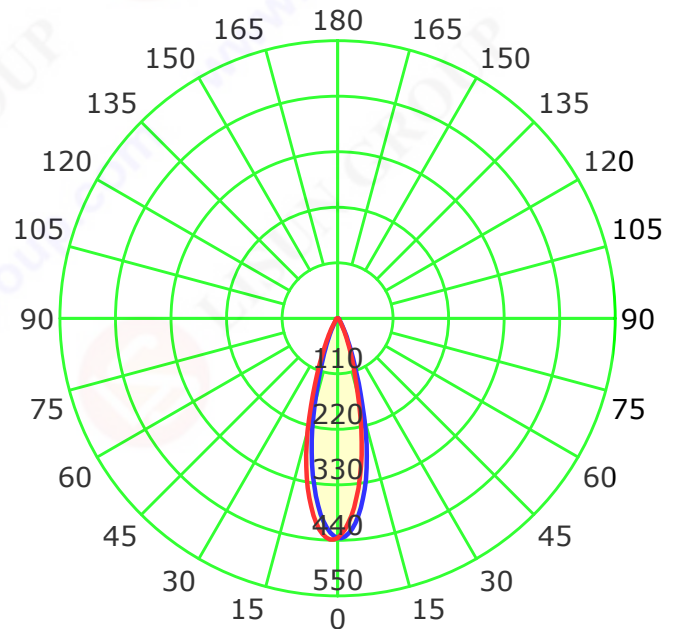
Pos of Max. Intensity: H292.5 V2

S/MH(C90/C270): 0.47

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 27.7°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab: LISUN

Test Type: TYPE C

Temperature: 25

Operator: Jacky

Gamma Plane (°):0.0-90.0:1.0

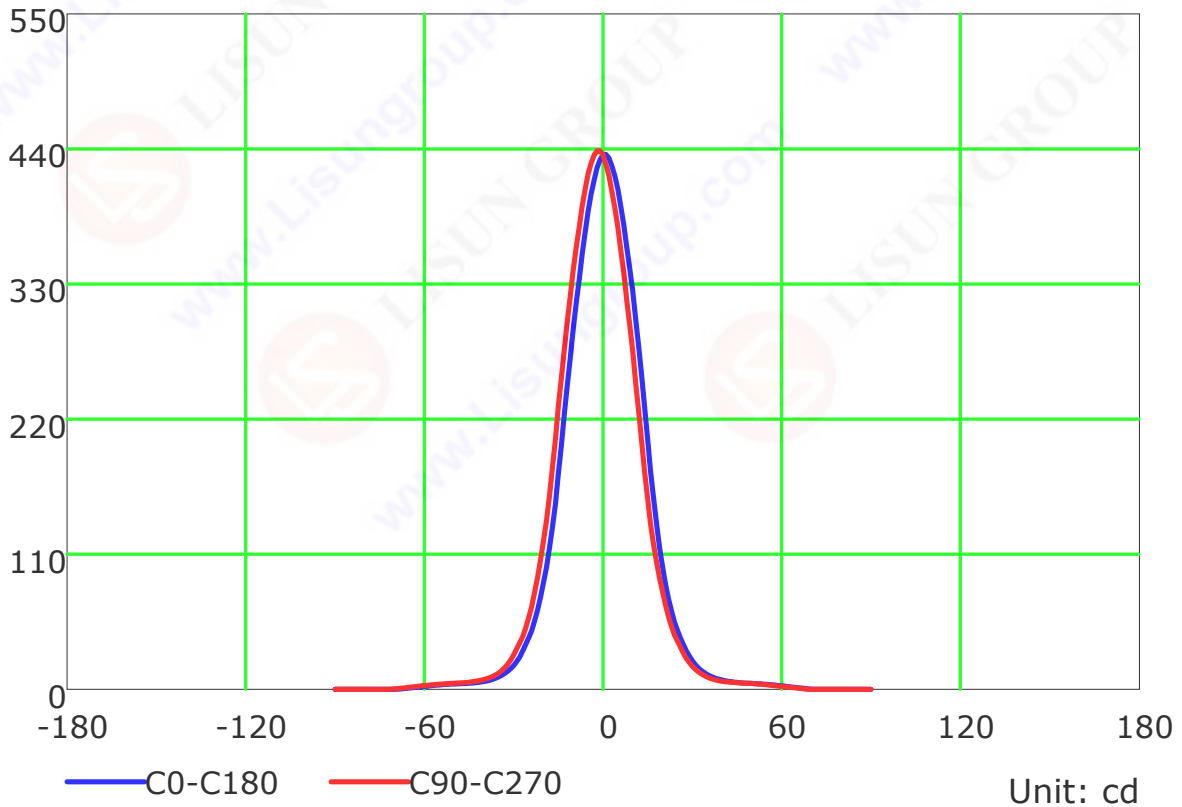
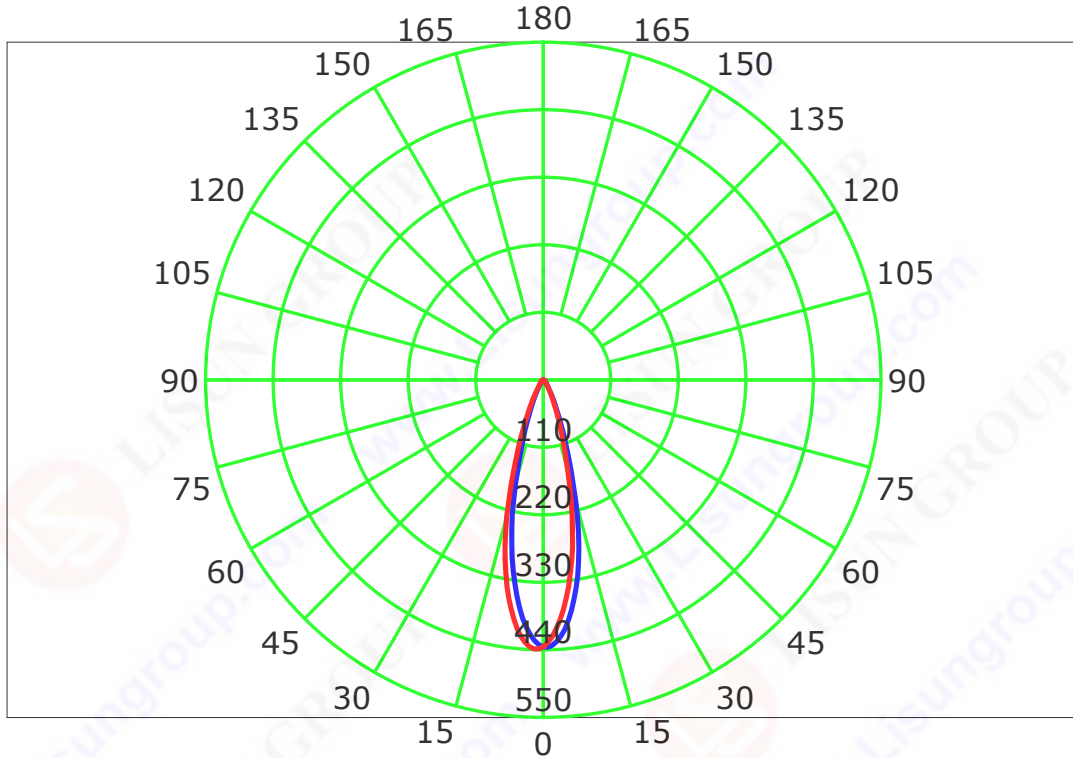
Test Device: LSG-1200A

Distance: 1.000 m

Humidity: 65

Inspector:

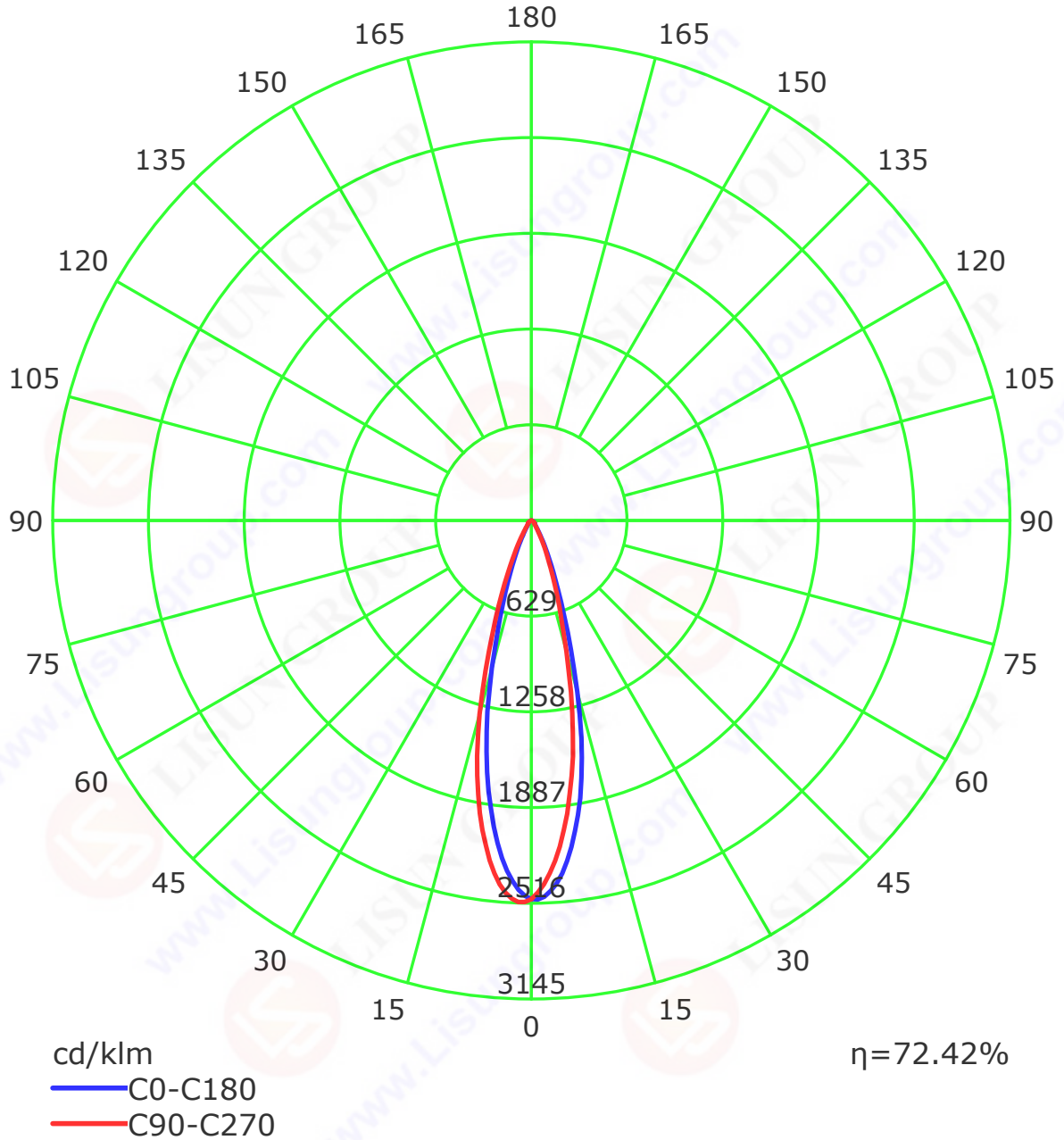
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5  
 Test Lab: LISUN  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: LSG-1200A  
 Distance: 1.000 m  
 Humidity: 65  
 Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



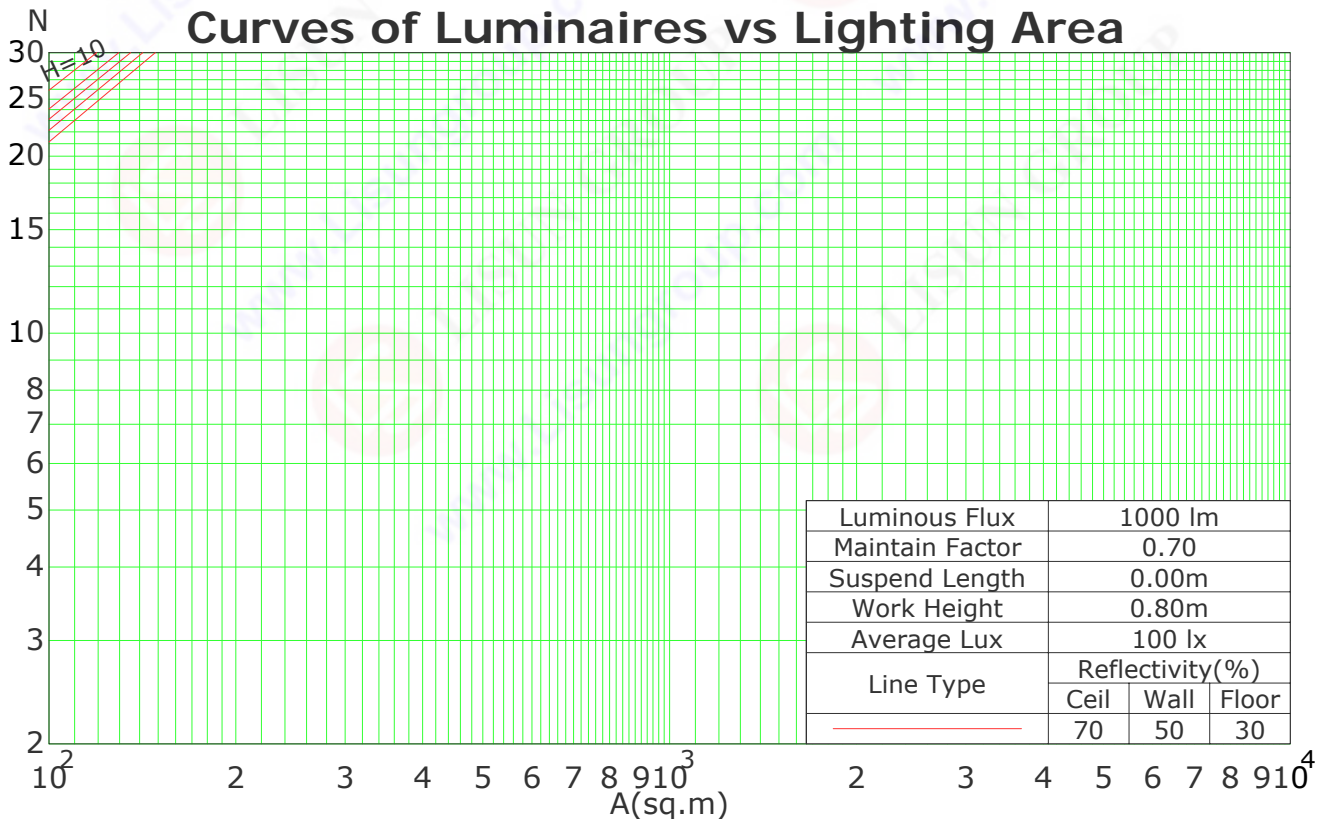
C Plane (°):0.0-360.0: 22.5  
 Test Lab: LISUN  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: LSG-1200A  
 Distance: 1.000 m  
 Humidity: 65  
 Inspector:

### Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	86	86	86	86	84	84	84	84	80	80	80	77	77	77	74	74	74	72
1	83	81	80	78	81	80	78	77	77	76	75	74	73	72	72	71	70	69
2	80	77	74	72	78	75	73	71	73	71	70	71	70	68	69	68	67	66
3	76	73	70	67	75	72	69	67	70	67	66	68	66	65	67	65	64	63
4	74	69	66	63	72	68	65	63	67	64	62	65	63	61	64	62	61	60
5	71	66	62	60	70	65	62	60	64	61	59	63	61	59	62	60	58	57
6	68	63	60	57	67	63	59	57	62	59	57	61	58	56	60	58	56	55
7	66	61	57	55	65	60	57	55	59	56	54	59	56	54	58	56	54	53
8	64	58	55	52	63	58	55	52	57	54	52	57	54	52	56	54	52	51
9	62	56	53	51	61	56	53	50	55	52	50	55	52	50	54	52	50	49
10	60	54	51	49	59	54	51	49	54	51	49	53	50	49	53	50	48	48

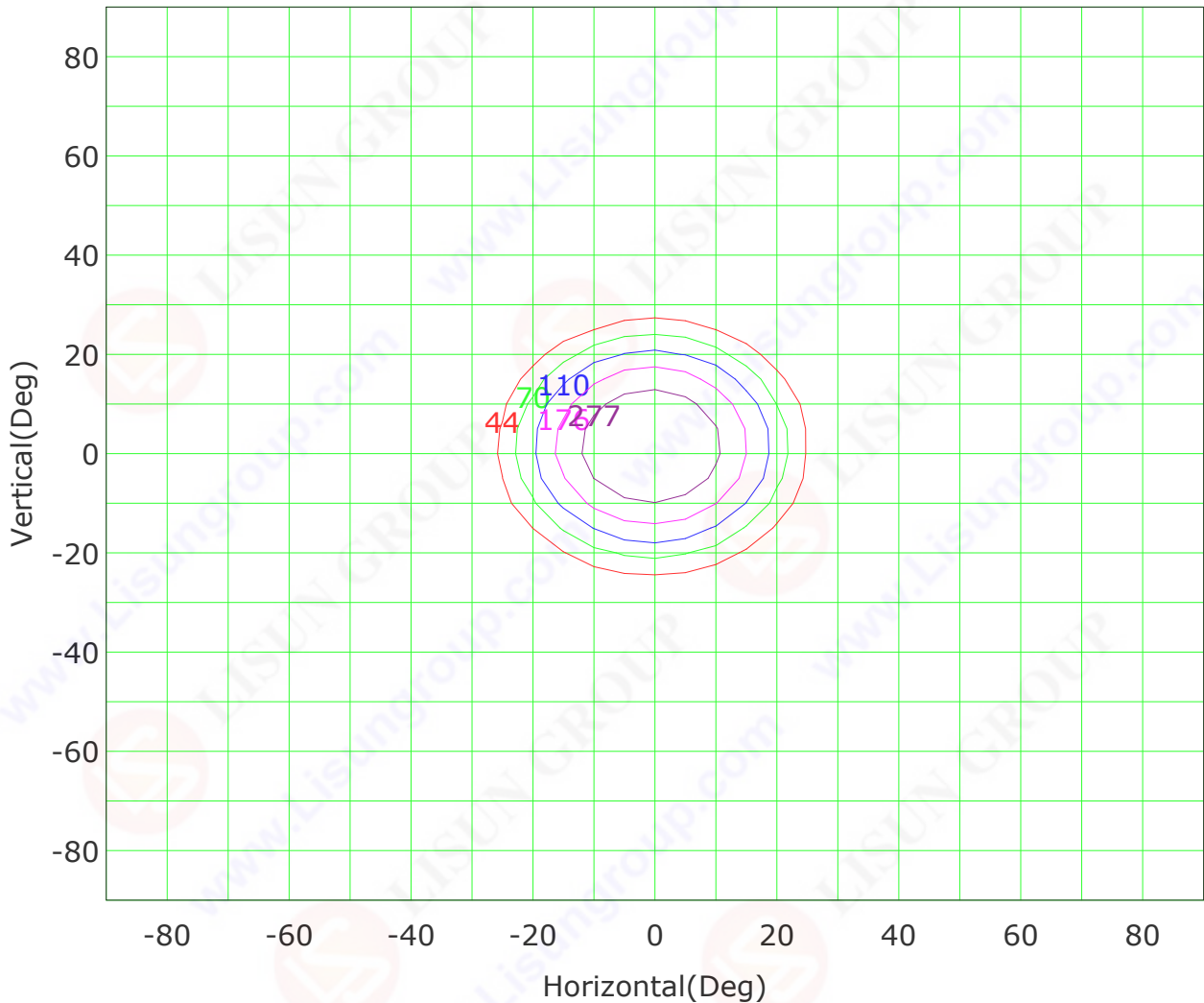
Spacing Criteria (0-180): 0.47  
 Spacing Criteria (90-270): 0.47  
 Spacing Criteria (Diagonal): 0.46



C Plane (°):0.0-360.0: 22.5  
 Test Lab: LISUN  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: LSG-1200A  
 Distance: 1.000 m  
 Humidity: 65  
 Inspector:

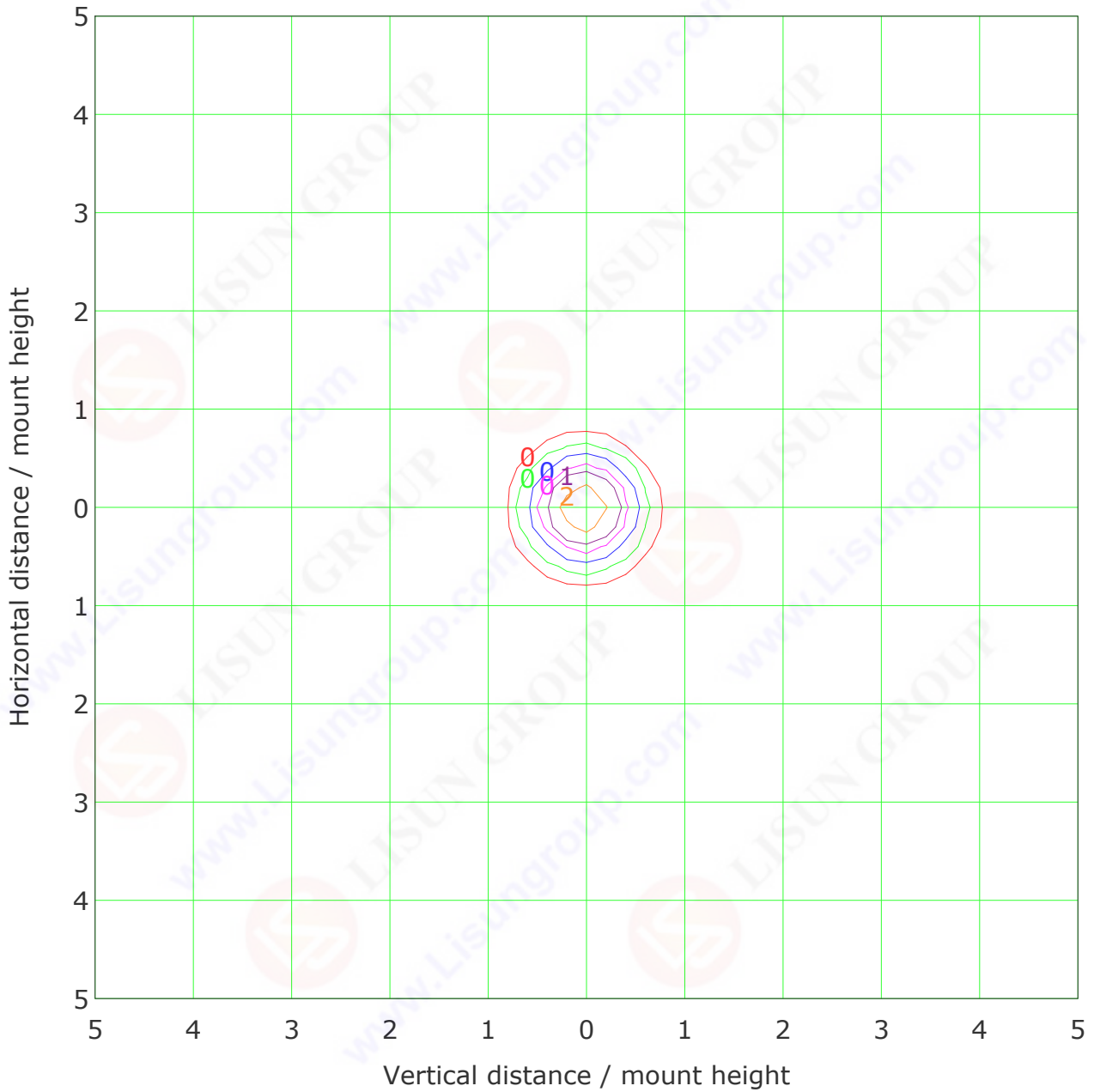
## Isocandela (rectangle)



Imax (100%): 440 cd

— ( 10%):	44 cd	— ( 16%):	70 cd
— ( 25%):	110 cd	— ( 40%):	176 cd
— ( 63%):	277 cd	— (100%):	440 cd

## IsoLux Plot



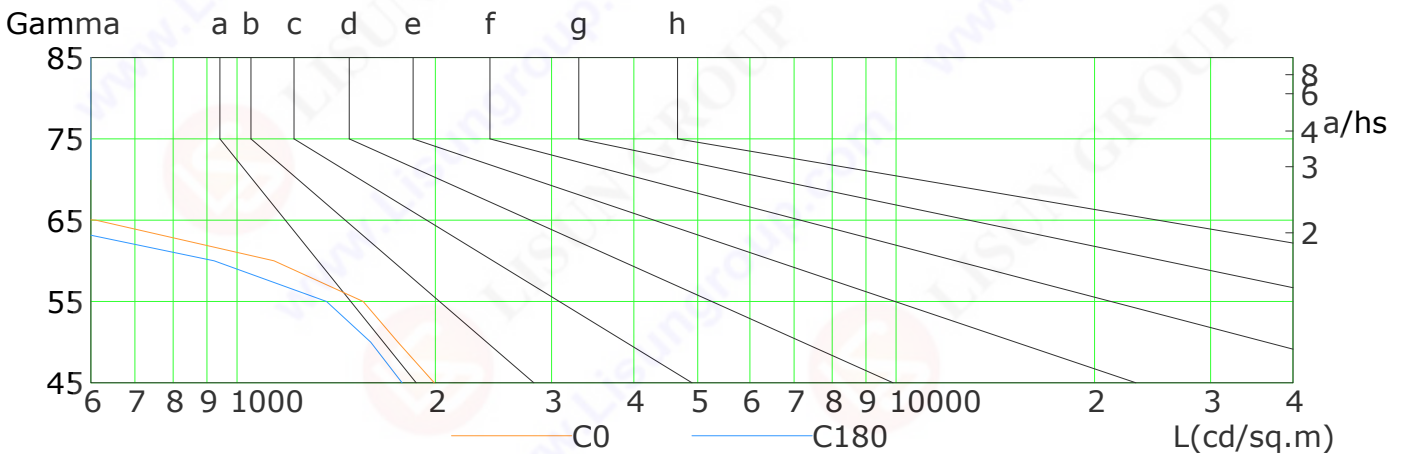
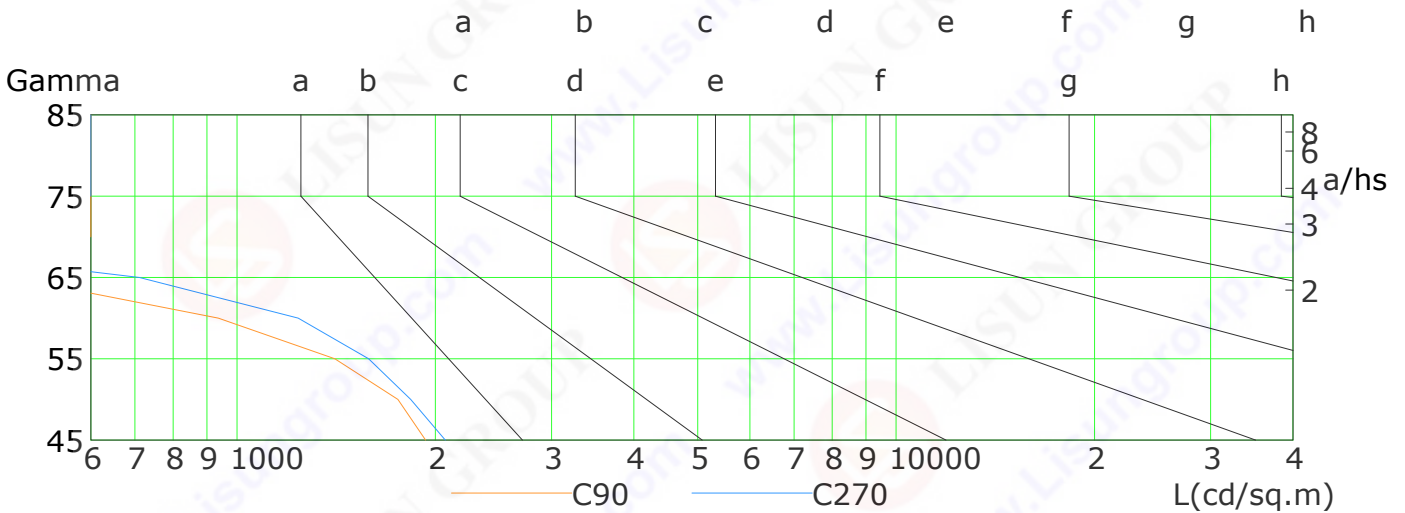
Mounting Height: 10.0m		Max Lux(100%): 4.4 lx	
<ul style="list-style-type: none"> <li><span style="color: red;">—</span> ( 1%): 0.0 lx</li> <li><span style="color: blue;">—</span> ( 5%): 0.2 lx</li> <li><span style="color: purple;">—</span> ( 20%): 0.9 lx</li> <li><span style="color: green;">—</span> (100%): 4.4 lx</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: cyan;">—</span> ( 2%): 0.1 lx</li> <li><span style="color: magenta;">—</span> ( 10%): 0.4 lx</li> <li><span style="color: orange;">—</span> ( 50%): 2.2 lx</li> </ul>		

C Plane (°):0.0-360.0: 22.5  
 Test Lab: LISUN  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: LSG-1200A  
 Distance: 1.000 m  
 Humidity: 65  
 Inspector:

## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
1.15	A								
1.50	B								
1.85	C								
2.20	D								
2.55	E								

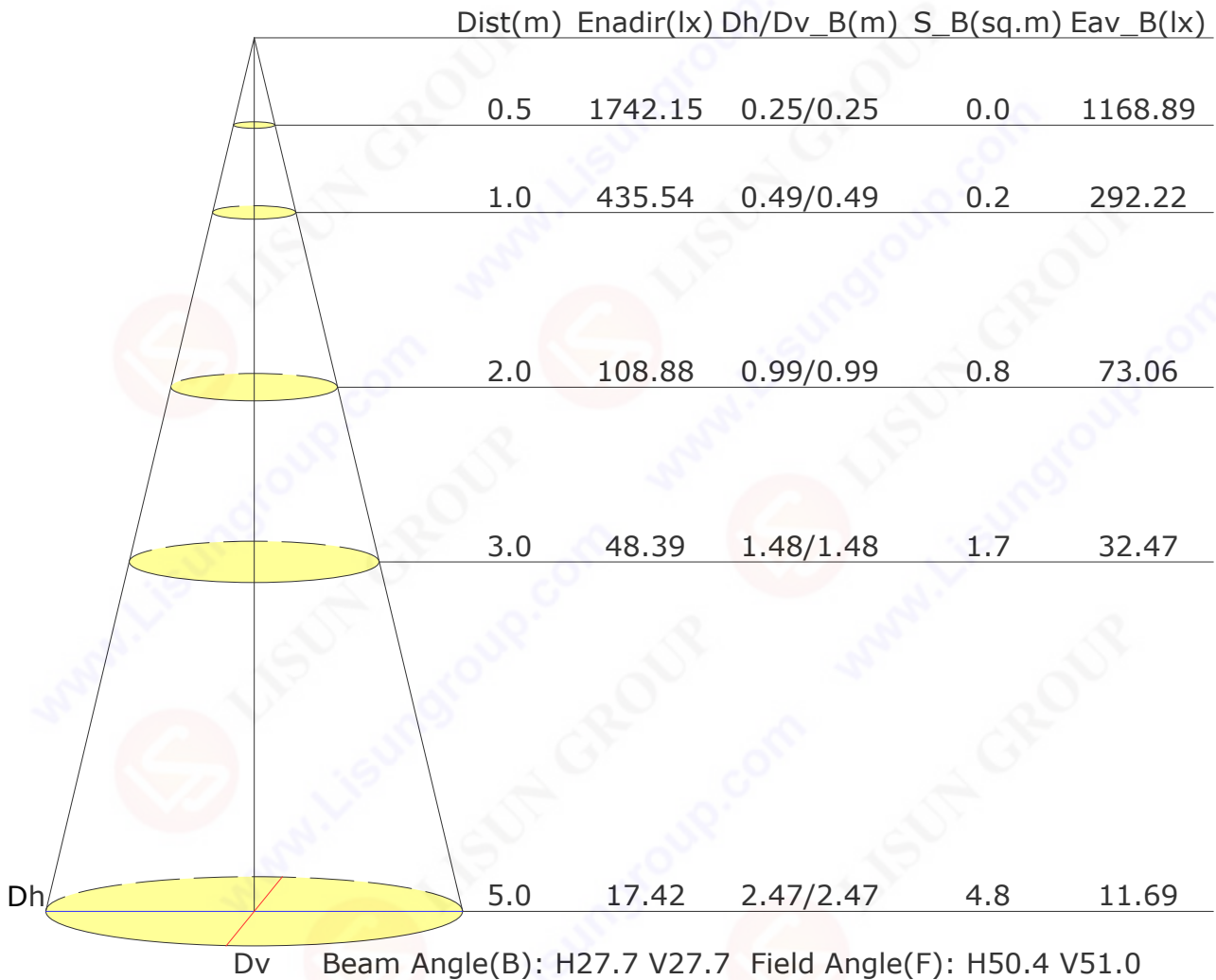


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1991	1754	1554	1138	611	83	0	0	0
C90	1932	1755	1407	937	455	0	0	0	0
C180	1780	1595	1367	923	466	0	0	0	0
C270	2070	1834	1583	1239	711	221	0	0	0

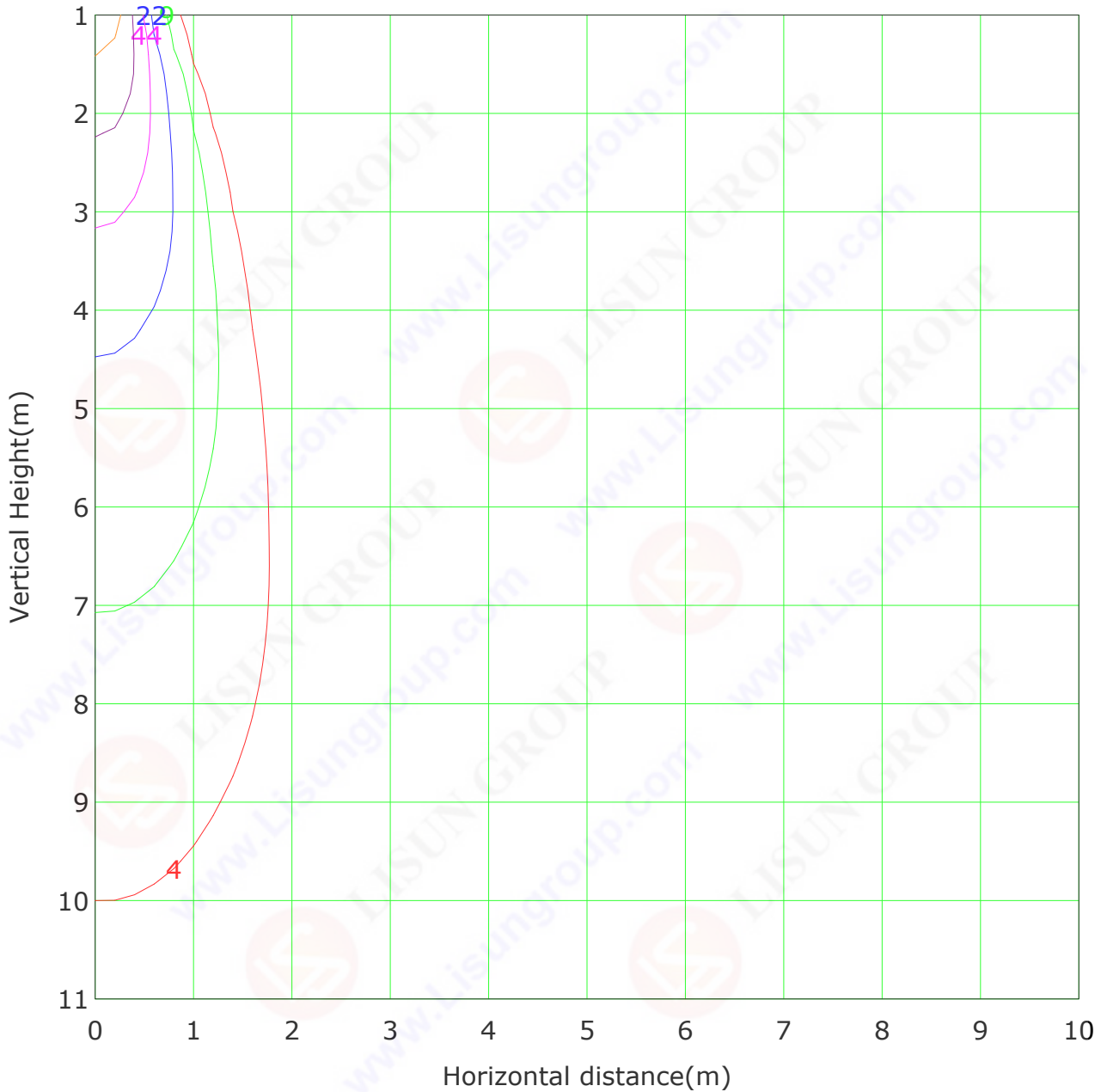
C Plane (°):0.0-360.0: 22.5  
 Test Lab: LISUN  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: LSG-1200A  
 Distance: 1.000 m  
 Humidity: 65  
 Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot

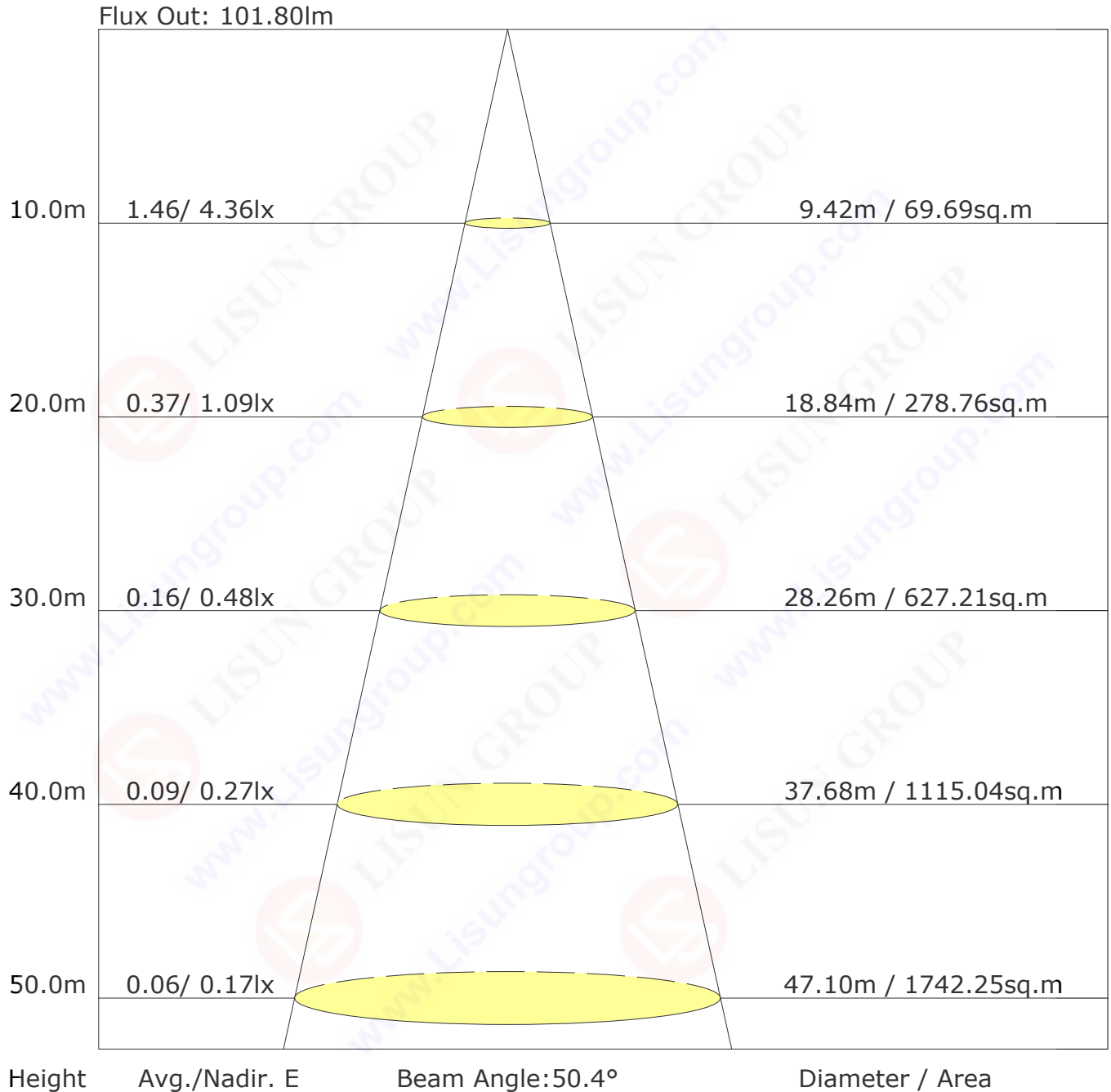


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 435.5 lx
— ( 1%): 4.4 lx	— ( 2%): 8.7 lx	
— ( 5%): 21.8 lx	— ( 10%): 43.6 lx	
— ( 20%): 87.1 lx	— ( 50%): 217.8 lx	
— (100%): 435.5 lx		

C Plane (°):0.0-360.0: 22.5  
 Test Lab: LISUN  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: LSG-1200A  
 Distance: 1.000 m  
 Humidity: 65  
 Inspector:

## The Average Illuminance Effective Figure



## UGR Table

Reflectance:										
Ceiling (cavity)	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	8.4	9.1	8.6	9.3	9.5	8.3	9.0	8.6	9.2	9.4
3H	8.4	9.1	8.7	9.3	9.5	8.4	9.0	8.6	9.2	9.5
4H	8.3	8.9	8.6	9.2	9.5	8.3	8.9	8.6	9.1	9.4
6H	8.3	8.8	8.6	9.1	9.4	8.2	8.8	8.5	9.0	9.3
8H	8.2	8.8	8.6	9.1	9.4	8.2	8.7	8.5	9.0	9.3
12H	8.2	8.7	8.5	9.0	9.3	8.1	8.6	8.5	8.9	9.3
X=4H Y=2H	8.5	9.1	8.8	9.4	9.6	8.5	9.1	8.8	9.3	9.6
3H	8.5	9.0	8.9	9.3	9.7	8.5	9.0	8.8	9.3	9.6
4H	8.4	8.9	8.8	9.2	9.6	8.4	8.9	8.8	9.2	9.5
6H	8.4	8.8	8.8	9.1	9.5	8.3	8.7	8.7	9.1	9.5
8H	8.3	8.7	8.7	9.1	9.5	8.3	8.6	8.7	9.0	9.4
12H	8.3	8.6	8.7	9.0	9.4	8.2	8.5	8.6	9.0	9.4
X=8H Y=4H	8.3	8.7	8.7	9.1	9.5	8.3	8.6	8.7	9.0	9.4
6H	8.2	8.5	8.7	8.9	9.4	8.2	8.5	8.6	8.9	9.3
8H	8.2	8.4	8.6	8.9	9.4	8.1	8.4	8.6	8.8	9.3
12H	8.1	8.3	8.6	8.8	9.3	8.1	8.3	8.6	8.8	9.3
X=12H Y=4H	8.3	8.6	8.7	9.0	9.4	8.2	8.5	8.7	9.0	9.4
6H	8.2	8.4	8.6	8.9	9.4	8.1	8.4	8.6	8.8	9.3
8H	8.1	8.3	8.6	8.8	9.3	8.1	8.3	8.6	8.8	9.3
Variations with the observer position at spacings:										
S=1.0H	+1.7/-1.1					+2.3/-1.3				
S=1.5H	+3.3/-3.1					+4.1/-3.2				
S=2.0H	+4.9/-10.1					+5.7/-8.9				

Calculate in accordance with CIE Pub.117. The table is revised with  $175\text{lm}$  ( $8\log(F/F_0) = -6.1$ ).

## Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.65	0.69	0.72	0.74	0.77	0.79	0.80	0.81	0.82	
	0.30		0.62	0.66	0.69	0.71	0.74	0.76	0.78	0.80	0.81	
	0.20		0.60	0.64	0.67	0.69	0.73	0.75	0.76	0.78	0.80	
0.50	0.50	0.20	0.64	0.68	0.71	0.72	0.75	0.76	0.77	0.78	0.79	
	0.30		0.61	0.65	0.68	0.70	0.73	0.74	0.76	0.77	0.78	
	0.20		0.59	0.63	0.66	0.68	0.71	0.73	0.74	0.76	0.77	
0.30	0.50	0.20	0.63	0.67	0.69	0.71	0.73	0.74	0.75	0.76	0.77	
	0.30		0.61	0.65	0.67	0.69	0.71	0.73	0.74	0.75	0.76	
	0.20		0.59	0.63	0.66	0.67	0.70	0.71	0.73	0.74	0.75	
0.00	0.00	0.00	0.58	0.61	0.64	0.66	0.68	0.69	0.70	0.71	0.72	
Rating:3W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

## Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 0.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.39	0.32	0.27	0.23	0.18	0.15	0.13	0.10	0.08	
	0.30		0.33	0.27	0.23	0.20	0.16	0.14	0.12	0.09	0.08	
	0.20		0.28	0.24	0.21	0.18	0.15	0.13	0.11	0.09	0.07	
0.50	0.50	0.20	0.38	0.30	0.25	0.22	0.17	0.17	0.12	0.09	0.07	
	0.30		0.32	0.26	0.22	0.19	0.15	0.13	0.11	0.08	0.07	
	0.20		0.28	0.23	0.20	0.17	0.14	0.12	0.10	0.08	0.07	
0.30	0.50	0.20	0.36	0.28	0.23	0.20	0.15	0.13	0.11	0.08	0.07	
	0.30		0.31	0.25	0.21	0.18	0.14	0.12	0.10	0.08	0.06	
	0.20		0.27	0.22	0.19	0.17	0.13	0.11	0.10	0.07	0.06	
0.00	0.00	0.00	0.17	0.13	0.11	0.09	0.07	0.05	0.05	0.03	0.03	
Rating:3W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

## Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 0.50								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.09	0.10	0.11	0.12	0.13	0.14	0.14	0.15	0.15
	0.30		0.06	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.14
	0.20		0.05	0.06	0.07	0.08	0.10	0.11	0.12	0.13	0.13
0.50	0.50	0.20	0.09	0.10	0.11	0.12	0.13	0.13	0.14	0.14	0.15
	0.30		0.06	0.08	0.09	0.10	0.11	0.12	0.12	0.13	0.14
	0.20		0.04	0.06	0.07	0.08	0.10	0.11	0.11	0.12	0.13
0.30	0.50	0.20	0.09	0.10	0.11	0.11	0.12	0.13	0.13	0.14	0.14
	0.30		0.06	0.08	0.09	0.09	0.11	0.11	0.12	0.13	0.13
	0.20		0.04	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
Rating:3W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	434.7	0.4	0.4	0.24	0.24
1.0-2.0	431.4	1.2	1.7	0.71	0.95
2.0-3.0	425.0	2.0	3.7	1.16	2.11
3.0-4.0	415.9	2.8	6.5	1.59	3.70
4.0-5.0	404.8	3.5	10.0	1.99	5.69
5.0-6.0	390.9	4.1	14.1	2.35	8.04
6.0-7.0	375.0	4.7	18.7	2.66	10.70
7.0-8.0	357.6	5.1	23.8	2.93	13.62
8.0-9.0	338.7	5.5	29.3	3.14	16.76
9.0-10.0	319.0	5.8	35.1	3.30	20.06
10.0-11.0	297.3	5.9	41.0	3.40	23.45
11.0-12.0	274.7	6.0	47.0	3.43	26.88
12.0-13.0	251.8	6.0	53.0	3.41	30.30
13.0-14.0	227.4	5.8	58.8	3.33	33.63
14.0-15.0	203.3	5.6	64.4	3.19	36.82
15.0-16.0	179.9	5.3	69.7	3.01	39.83
16.0-17.0	157.5	4.9	74.6	2.80	42.63
17.0-18.0	137.7	4.5	79.1	2.59	45.23
18.0-19.0	119.6	4.2	83.3	2.38	47.60
19.0-20.0	103.6	3.8	87.1	2.17	49.77
20.0-21.0	90.0	3.5	90.6	1.98	51.74
21.0-22.0	77.8	3.1	93.7	1.79	53.53
22.0-23.0	67.2	2.8	96.5	1.61	55.14
23.0-24.0	58.1	2.5	99.0	1.45	56.59
24.0-25.0	50.3	2.3	101.3	1.31	57.90
25.0-26.0	43.9	2.1	103.4	1.18	59.08
26.0-27.0	38.0	1.9	105.3	1.06	60.15
27.0-28.0	32.8	1.7	106.9	0.95	61.10
28.0-29.0	28.4	1.5	108.4	0.85	61.95
29.0-30.0	24.3	1.3	109.7	0.75	62.70
30.0-31.0	21.0	1.2	110.9	0.67	63.36
31.0-32.0	18.2	1.0	111.9	0.60	63.96
32.0-33.0	15.8	0.9	112.9	0.53	64.49
33.0-34.0	13.9	0.8	113.7	0.48	64.97
34.0-35.0	12.3	0.8	114.5	0.44	65.41
35.0-36.0	10.9	0.7	115.2	0.40	65.80

C Plane (°):0.0-360.0: 22.5  
 Test Lab: LISUN  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: LSG-1200A  
 Distance: 1.000 m  
 Humidity: 65  
 Inspector:

## Zonal Lumen (Continue 1)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	9.8	0.6	115.8	0.37	66.17
37.0-38.0	8.9	0.6	116.4	0.34	66.51
38.0-39.0	8.1	0.6	116.9	0.32	66.82
39.0-40.0	7.5	0.5	117.5	0.30	67.12
40.0-41.0	7.0	0.5	118.0	0.28	67.40
41.0-42.0	6.6	0.5	118.4	0.27	67.67
42.0-43.0	6.2	0.5	118.9	0.26	67.94
43.0-44.0	5.9	0.4	119.3	0.25	68.19
44.0-45.0	5.7	0.4	119.8	0.25	68.44
45.0-46.0	5.5	0.4	120.2	0.24	68.68
46.0-47.0	5.3	0.4	120.6	0.24	68.92
47.0-48.0	5.1	0.4	121.0	0.24	69.16
48.0-49.0	5.0	0.4	121.4	0.24	69.40
49.0-50.0	4.9	0.4	121.9	0.23	69.63
50.0-51.0	4.8	0.4	122.3	0.23	69.87
51.0-52.0	4.6	0.4	122.7	0.23	70.09
52.0-53.0	4.5	0.4	123.1	0.22	70.32
53.0-54.0	4.3	0.4	123.4	0.22	70.53
54.0-55.0	4.1	0.4	123.8	0.21	70.74
55.0-56.0	3.9	0.4	124.1	0.20	70.94
56.0-57.0	3.6	0.3	124.5	0.19	71.13
57.0-58.0	3.4	0.3	124.8	0.18	71.31
58.0-59.0	3.1	0.3	125.1	0.17	71.48
59.0-60.0	2.9	0.3	125.4	0.15	71.63
60.0-61.0	2.6	0.2	125.6	0.14	71.77
61.0-62.0	2.3	0.2	125.8	0.13	71.90
62.0-63.0	2.1	0.2	126.0	0.11	72.02
63.0-64.0	1.8	0.2	126.2	0.10	72.11
64.0-65.0	1.5	0.1	126.3	0.08	72.20
65.0-66.0	1.2	0.1	126.5	0.07	72.27
66.0-67.0	1.0	0.1	126.6	0.06	72.33
67.0-68.0	0.7	0.1	126.6	0.04	72.37
68.0-69.0	0.5	0.1	126.7	0.03	72.40
69.0-70.0	0.3	0.0	126.7	0.02	72.41
70.0-71.0	0.1	0.0	126.7	0.01	72.42
71.0-72.0	0.0	0.0	126.7	0.00	72.42

C Plane (°):0.0-360.0: 22.5  
 Test Lab: LISUN  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: LSG-1200A  
 Distance: 1.000 m  
 Humidity: 65  
 Inspector:



## Candlepower Table

Unit: cd

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5
G0.0	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5
G1.0	435.9	433.5	431.1	429.7	427.9	428.3	428.6	430.3	431.8	434.1
G2.0	433.0	428.3	424.0	421.2	418.7	419.0	419.7	422.9	425.1	429.4
G3.0	426.6	419.5	413.4	409.0	406.1	406.2	407.0	411.2	415.2	421.6
G4.0	418.4	409.9	402.2	396.1	392.5	391.5	393.5	398.5	403.9	411.5
G5.0	407.6	397.9	388.9	381.6	376.5	375.9	377.6	384.0	389.7	399.4
G6.0	393.6	382.7	371.5	363.0	357.8	356.1	359.2	366.4	372.9	383.0
G7.0	378.3	366.1	354.3	345.5	339.6	337.9	341.0	347.9	354.9	366.9
G8.0	360.6	347.3	334.4	323.9	317.5	316.4	319.9	327.4	334.7	349.2
G9.0	342.9	328.8	315.0	303.8	297.1	295.7	298.6	307.6	315.1	327.8
G10.0	324.3	307.8	293.5	282.6	275.5	273.0	277.3	285.8	293.9	308.0
G11.0	301.9	284.5	269.3	258.0	249.7	248.3	252.6	261.8	270.7	285.5
G12.0	279.2	262.1	246.2	233.5	226.3	225.1	229.8	239.3	247.9	263.2
G13.0	256.1	236.1	222.4	207.4	202.6	199.3	205.5	213.7	225.3	241.3
G14.0	229.9	210.7	195.2	183.8	177.1	176.7	180.1	189.4	198.8	215.6
G15.0	203.8	187.0	172.6	161.7	155.6	154.7	158.3	167.4	175.9	192.7
G16.0	177.8	162.6	150.0	139.9	134.6	134.1	137.4	145.5	151.0	170.2
G17.0	155.7	142.1	131.4	122.0	117.9	117.5	119.9	127.4	132.1	146.0
G18.0	135.6	122.6	114.1	107.4	104.3	102.9	105.1	110.7	115.6	126.4
G19.0	115.8	105.2	98.2	93.2	90.9	88.6	90.7	95.2	99.5	109.2
G20.0	100.0	91.4	85.5	81.7	79.6	77.6	78.8	82.6	87.0	95.2
G21.0	86.0	78.7	74.5	70.1	69.1	67.1	67.7	70.6	75.4	83.2
G22.0	73.8	68.5	64.0	61.2	59.3	58.5	58.3	61.0	64.7	71.5
G23.0	64.3	59.3	55.2	53.3	51.7	51.2	51.2	53.3	56.1	62.0
G24.0	54.9	51.0	47.7	45.9	44.6	44.2	44.6	45.9	47.7	54.3
G25.0	48.0	44.7	42.2	40.8	39.5	39.2	39.1	40.3	41.8	46.9
G26.0	42.0	38.9	37.2	36.1	34.7	34.5	34.6	35.5	36.6	40.9
G27.0	36.5	33.8	31.9	30.9	29.5	29.0	29.4	30.5	31.2	35.2
G28.0	31.5	29.3	27.6	26.4	25.3	24.9	25.0	26.2	26.5	30.3
G29.0	27.2	24.9	24.0	22.5	22.0	21.2	21.6	22.0	22.8	25.8
G30.0	23.2	21.7	20.5	19.6	18.9	18.5	18.5	19.1	19.4	22.0
G31.0	20.2	19.0	18.0	17.1	16.6	16.3	16.0	16.6	17.0	19.1
G32.0	17.6	16.5	15.7	14.9	14.4	14.1	13.8	14.3	14.8	16.8
G33.0	15.5	14.5	13.9	13.2	12.8	12.4	12.3	12.7	13.1	14.6
G34.0	13.7	12.9	12.4	11.8	11.4	11.1	10.8	11.2	11.6	12.9
G35.0	12.1	11.6	11.0	10.4	10.0	9.8	9.4	9.9	10.2	11.4
G36.0	10.8	10.4	9.9	9.4	9.1	8.9	8.5	8.8	9.1	10.2

C Plane (°):0.0-360.0: 22.5

Test Lab: LISUN

Test Type: TYPE C

Temperature: 25

Operator: Jacky

Gamma Plane (°):0.0-90.0:1.0

Test Device: LSG-1200A

Distance: 1.000 m

Humidity: 65

Inspector:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5
G37.0	9.9	9.4	9.0	8.5	8.3	8.1	7.7	7.9	8.3	9.2
G38.0	8.9	8.7	8.3	7.9	7.6	7.5	7.0	7.4	7.5	8.3
G39.0	8.3	8.0	7.7	7.3	7.0	6.9	6.5	6.7	6.9	7.6
G40.0	7.6	7.4	7.2	6.8	6.6	6.5	6.1	6.2	6.4	7.0
G41.0	7.1	7.0	6.8	6.5	6.2	6.3	5.7	5.9	6.0	6.6
G42.0	6.6	6.6	6.5	6.1	6.0	6.0	5.4	5.7	5.7	6.1
G43.0	6.3	6.3	6.2	5.9	5.8	5.7	5.2	5.4	5.4	5.7
G44.0	5.9	6.1	6.0	5.6	5.6	5.5	5.0	5.2	5.2	5.5
G45.0	5.6	5.8	5.8	5.5	5.5	5.3	4.8	5.0	5.0	5.3
G46.0	5.4	5.7	5.6	5.3	5.3	5.1	4.7	4.9	4.8	5.1
G47.0	5.2	5.5	5.5	5.3	5.1	4.9	4.6	4.8	4.8	5.0
G48.0	5.1	5.4	5.4	5.2	5.0	4.9	4.6	4.7	4.7	4.9
G49.0	5.0	5.3	5.2	5.1	5.0	4.8	4.5	4.6	4.5	4.8
G50.0	4.8	5.1	5.2	4.9	4.8	4.8	4.4	4.5	4.4	4.7
G51.0	4.7	4.9	4.9	4.7	4.6	4.6	4.2	4.4	4.3	4.6
G52.0	4.6	4.8	4.7	4.6	4.4	4.4	4.0	4.2	4.2	4.4
G53.0	4.5	4.6	4.5	4.4	4.2	4.2	3.8	4.0	4.1	4.2
G54.0	4.3	4.4	4.3	4.1	3.9	4.0	3.5	3.8	3.8	4.0
G55.0	4.1	4.2	4.1	3.8	3.7	3.7	3.4	3.6	3.6	3.8
G56.0	3.9	3.9	3.8	3.6	3.5	3.5	3.1	3.2	3.4	3.7
G57.0	3.7	3.6	3.5	3.3	3.2	3.2	2.9	3.1	3.2	3.4
G58.0	3.4	3.3	3.3	3.1	3.0	2.9	2.7	2.8	2.9	3.1
G59.0	3.1	3.1	2.9	2.8	2.7	2.7	2.3	2.5	2.6	2.8
G60.0	2.9	2.8	2.6	2.5	2.4	2.4	2.1	2.3	2.4	2.6
G61.0	2.6	2.6	2.4	2.2	2.2	2.2	1.8	2.1	2.1	2.3
G62.0	2.3	2.3	2.1	2.0	1.9	1.9	1.6	1.8	1.9	2.0
G63.0	2.0	2.0	1.8	1.6	1.6	1.7	1.4	1.5	1.7	1.8
G64.0	1.7	1.7	1.5	1.4	1.3	1.4	1.1	1.3	1.4	1.5
G65.0	1.5	1.4	1.3	1.2	1.1	1.1	0.8	1.0	1.1	1.3
G66.0	1.2	1.1	1.0	0.9	0.8	0.8	0.6	0.8	0.9	1.0
G67.0	0.9	0.8	0.8	0.7	0.6	0.7	0.3	0.5	0.6	0.8
G68.0	0.8	0.6	0.5	0.5	0.4	0.4	0.1	0.3	0.4	0.5
G69.0	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.1	0.1	0.4
G70.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
G71.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G73.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C Plane (°):0.0-360.0: 22.5

Test Lab: LISUN

Test Type: TYPE C

Temperature: 25

Operator: Jacky

Gamma Plane (°):0.0-90.0:1.0

Test Device: LSG-1200A

Distance: 1.000 m

Humidity: 65

Inspector:



## Candlepower Table (Continue 3)

Unit: cd

G\C	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5	C360.0			
G0.0	435.5	435.5	435.5	435.5	435.5	435.5	435.5			
G1.0	436.0	438.3	438.8	439.8	438.6	437.4	435.9			
G2.0	433.5	437.5	439.0	440.3	438.2	435.7	433.0			
G3.0	427.7	433.0	435.5	437.2	434.6	430.8	426.6			
G4.0	419.0	425.7	429.0	431.2	428.1	423.7	418.4			
G5.0	407.7	416.1	420.2	422.6	419.5	414.1	407.6			
G6.0	393.4	403.2	407.9	409.9	406.9	400.8	393.6			
G7.0	378.2	388.6	393.8	396.9	393.8	387.1	378.3			
G8.0	359.9	372.6	377.1	382.4	377.7	371.7	360.6			
G9.0	341.0	353.6	360.4	363.9	361.4	353.2	342.9			
G10.0	321.9	334.0	341.8	346.3	342.7	334.2	324.3			
G11.0	298.7	312.5	321.0	324.4	320.9	311.8	301.9			
G12.0	277.8	292.0	300.0	303.9	300.3	290.8	279.2			
G13.0	254.9	269.8	277.9	281.2	277.5	268.4	256.1			
G14.0	230.3	245.7	253.8	256.7	252.4	242.0	229.9			
G15.0	206.5	223.0	230.9	233.4	227.5	215.7	203.8			
G16.0	182.2	199.1	203.9	208.9	201.0	191.2	177.8			
G17.0	160.0	174.8	180.7	183.6	175.9	164.6	155.7			
G18.0	140.1	152.9	158.2	160.8	154.3	143.8	135.6			
G19.0	119.9	131.1	137.6	139.3	133.6	122.8	115.8			
G20.0	104.7	114.6	120.9	121.0	116.0	107.0	100.0			
G21.0	90.6	99.4	105.6	105.6	100.9	92.6	86.0			
G22.0	77.8	85.9	91.0	90.4	85.5	79.4	73.8			
G23.0	67.0	74.9	79.3	78.6	73.4	68.2	64.3			
G24.0	57.5	65.4	67.1	68.1	62.8	58.6	54.9			
G25.0	50.2	56.5	58.1	57.5	54.3	49.9	48.0			
G26.0	44.1	49.0	50.1	49.4	47.1	43.5	42.0			
G27.0	38.4	42.6	42.9	42.4	40.7	38.0	36.5			
G28.0	33.5	37.5	38.0	37.5	35.5	33.0	31.5			
G29.0	28.5	32.6	33.2	32.5	30.8	28.2	27.2			
G30.0	24.2	27.2	28.2	27.7	26.0	24.0	23.2			
G31.0	20.8	23.4	24.0	24.1	22.6	21.1	20.2			
G32.0	17.8	20.1	20.5	20.8	19.4	18.4	17.6			
G33.0	15.6	17.2	17.8	17.9	17.0	16.0	15.5			
G34.0	13.7	15.0	15.4	15.7	14.9	14.2	13.7			
G35.0	12.0	13.1	13.4	13.6	13.1	12.6	12.1			
G36.0	10.7	11.7	12.0	12.2	11.7	11.3	10.8			

C Plane (°):0.0-360.0: 22.5  
 Test Lab: LISUN  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: LSG-1200A  
 Distance: 1.000 m  
 Humidity: 65  
 Inspector:

## Candlepower Table (Continue 4)

Unit: cd

G\C	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5	C360.0			
G37.0	9.8	10.4	10.7	10.9	10.5	10.1	9.9			
G38.0	8.7	9.3	9.6	9.7	9.4	9.2	8.9			
G39.0	7.9	8.5	8.8	8.8	8.7	8.4	8.3			
G40.0	7.3	7.8	8.0	8.1	8.0	7.7	7.6			
G41.0	6.8	7.2	7.5	7.5	7.5	7.2	7.1			
G42.0	6.4	6.8	6.9	7.0	7.0	6.8	6.6			
G43.0	6.1	6.3	6.6	6.6	6.6	6.5	6.3			
G44.0	5.8	6.0	6.3	6.2	6.3	6.2	5.9			
G45.0	5.5	5.8	5.9	6.0	6.0	5.9	5.6			
G46.0	5.3	5.6	5.6	5.7	5.8	5.7	5.4			
G47.0	5.1	5.4	5.4	5.5	5.6	5.5	5.2			
G48.0	5.1	5.2	5.3	5.3	5.4	5.3	5.1			
G49.0	4.9	5.2	5.2	5.2	5.4	5.1	5.0			
G50.0	4.9	5.1	5.1	5.1	5.3	5.1	4.8			
G51.0	4.8	5.0	4.8	5.0	5.1	4.9	4.7			
G52.0	4.7	4.9	4.7	4.8	4.9	4.8	4.6			
G53.0	4.5	4.7	4.6	4.7	4.8	4.6	4.5			
G54.0	4.3	4.5	4.4	4.5	4.6	4.5	4.3			
G55.0	4.1	4.4	4.2	4.3	4.5	4.4	4.1			
G56.0	3.9	4.1	4.0	4.1	4.2	4.1	3.9			
G57.0	3.6	4.0	3.8	3.9	3.9	3.9	3.7			
G58.0	3.4	3.7	3.6	3.7	3.7	3.6	3.4			
G59.0	3.1	3.5	3.4	3.5	3.3	3.3	3.1			
G60.0	2.8	3.2	3.2	3.2	3.2	3.0	2.9			
G61.0	2.5	2.9	2.9	3.0	2.8	2.8	2.6			
G62.0	2.2	2.6	2.6	2.7	2.6	2.5	2.3			
G63.0	2.0	2.3	2.3	2.4	2.4	2.2	2.0			
G64.0	1.7	2.0	2.0	2.0	2.1	1.9	1.7			
G65.0	1.5	1.7	1.7	1.8	1.8	1.5	1.5			
G66.0	1.2	1.5	1.4	1.5	1.5	1.3	1.2			
G67.0	0.9	1.2	1.2	1.2	1.3	1.1	0.9			
G68.0	0.8	0.9	1.0	1.0	1.0	0.8	0.8			
G69.0	0.5	0.7	0.6	0.7	0.7	0.5	0.5			
G70.0	0.3	0.3	0.5	0.4	0.4	0.3	0.2			
G71.0	0.0	0.1	0.2	0.2	0.3	0.1	0.0			
G72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
G73.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

C Plane (°):0.0-360.0: 22.5  
 Test Lab: LISUN  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: LSG-1200A  
 Distance: 1.000 m  
 Humidity: 65  
 Inspector:

