

Report No. : 10

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## Lisun Goniophotometer Test Report

### Product Info

 Luminaire Category : **PRODUCTY INFORMATION**

 Luminaire : **TMS018/II8**

 Lamp Category : **UVA**

 Manufacturer : **PHILIPS**

 Submitter : **Philips Lighting**

 Number of Lamps : **1**

 Lumens per Lamp : **3641 mW**

 Luminous Length : **560 mm**

 Luminous Width : **40 mm**

 Luminous Height : **40 mm**

### Electric Parameters

 Voltage : **219.94 V**    Current : **0.1146 A**    Power : **21.68 W**    Power Factor : **0.860**    Frequency : **50.00 Hz**

### Photometric Parameters

 Measurement Range : **UVA**

 Total Rated Lamp Radiant Flux : **3640.8 mW**

 Measurement Flux : **3640.8 mW**

 Efficiency : **100.00 %**

 Upward Ratio : **14.58 %**

 Downward Ratio : **85.42 %**

 Maximum Radiation Intensity : **841.22 mW/sr**

 Position Of Maximum Intensity : **C100° γ1°**

 Central Radiation Intensity : **841.04 mW/sr**

 Beam Angle (C0-C180,C90-C270) : **165.1 °, 107.7 °**

 Beam Angle (C45-C225,C135-C315) : **135.4 °, 136.1 °**

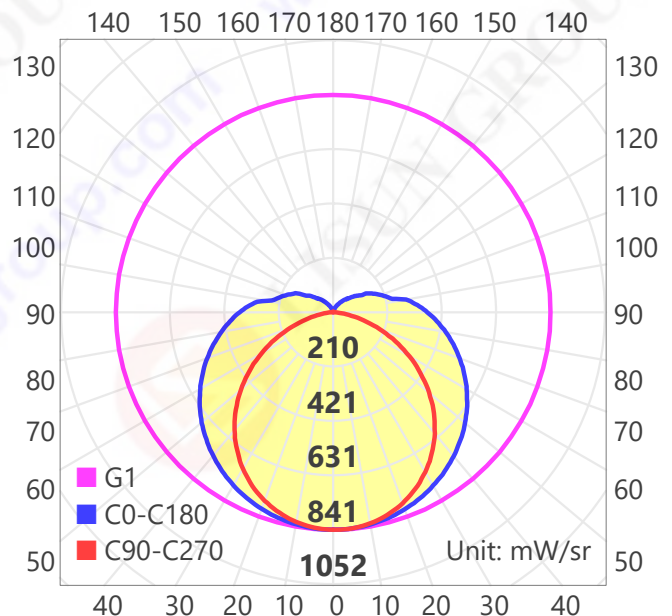
 Field Angle (C0-C180,C90-C270) : **261.9 °, 155.4 °**

 Field Angle (C45-C225,C135-C315) : **239.6 °, 240.7 °**

 Divergence angle (25%) : **H214.3 °, V136.3 °**

 Divergence angle (50%) : **H165.0 °, V107.5 °**

 Divergence angle (75%) : **H110.1 °, V75.0 °**

 Divergence angle (90%) : **H67.2 °, V47.1 °**


Average Beam Angle (50%): 136.3°

Test Type : Type C    Test Distance : 1.325 m

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Test Device : Lisun LSG-1890B

Temperature : 25.0°C

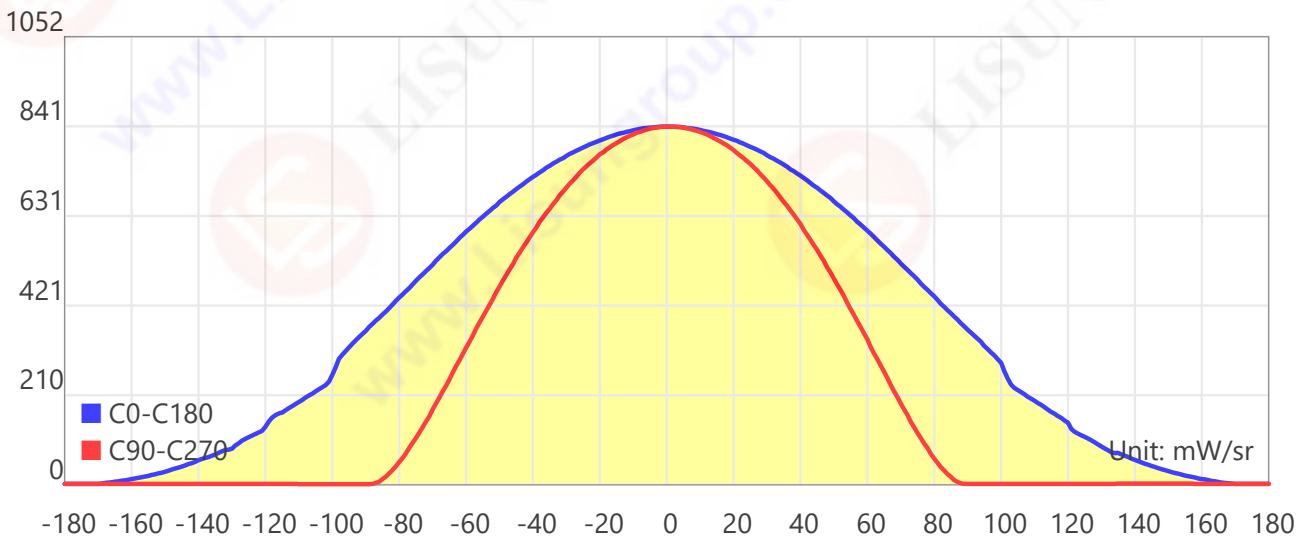
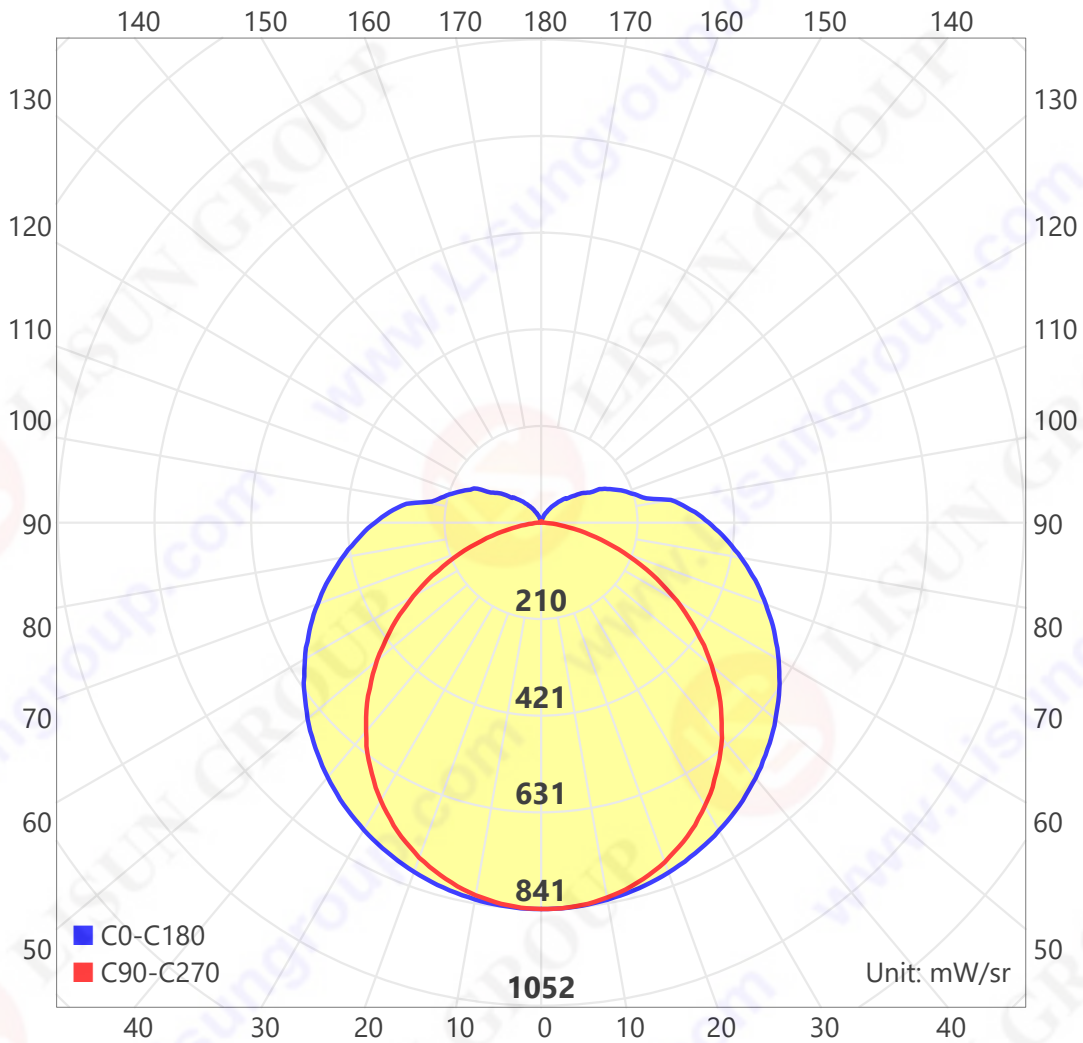
Humidity : 65.0%

Test Lab : Lisun Instruments Limited

Test By : JACK

Review By :

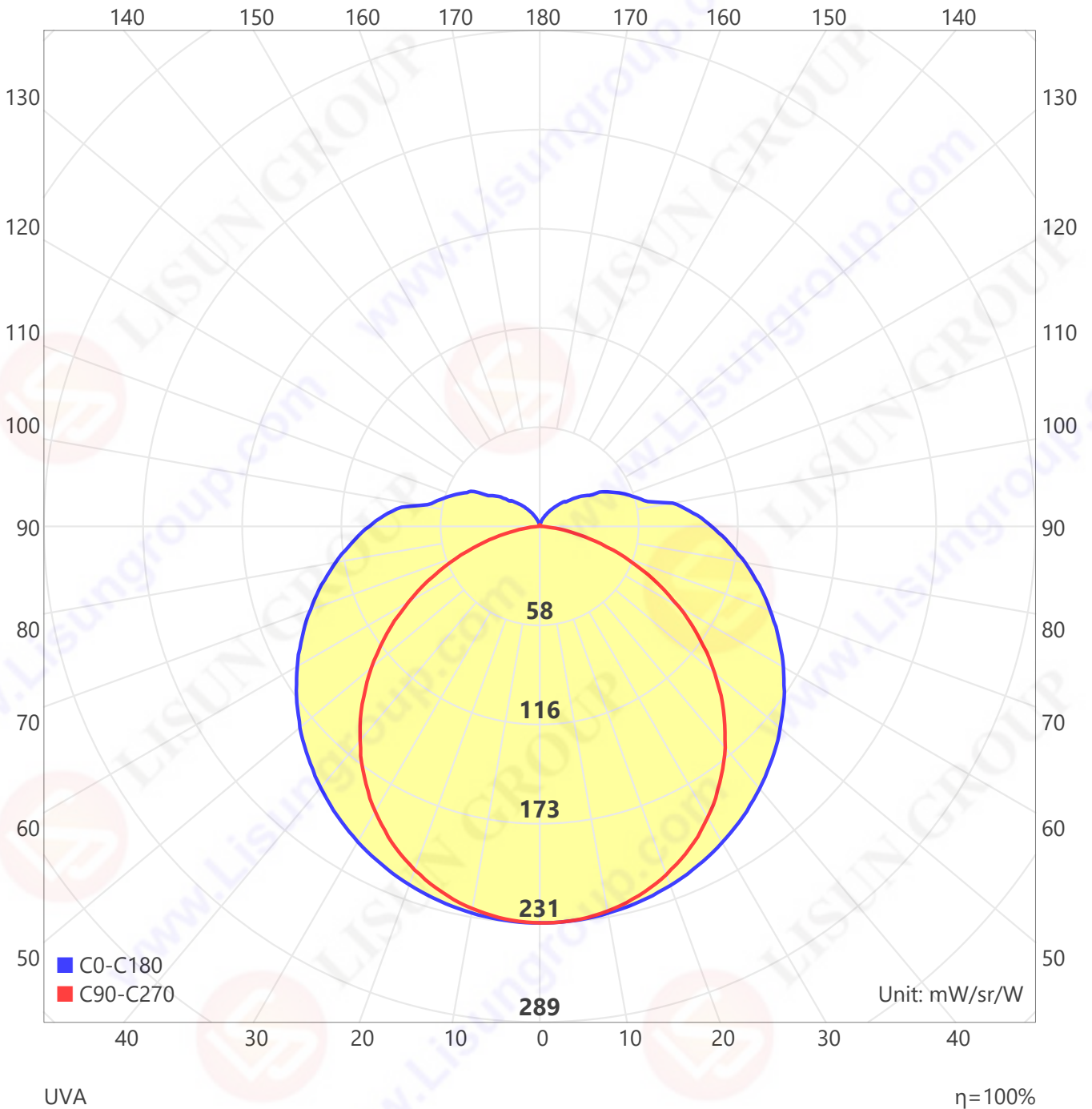
**Light Distribution Curve**



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**Light Distribution Curve (mW/W)**

 Test Type : Type C  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

Test Distance : 1.325 m

 C Plane (°): 0.0-360.0:10.0  
 Temperature : 25.0°C

 γ (°): 0.0-180.0:1.0  
 Humidity : 65.0%

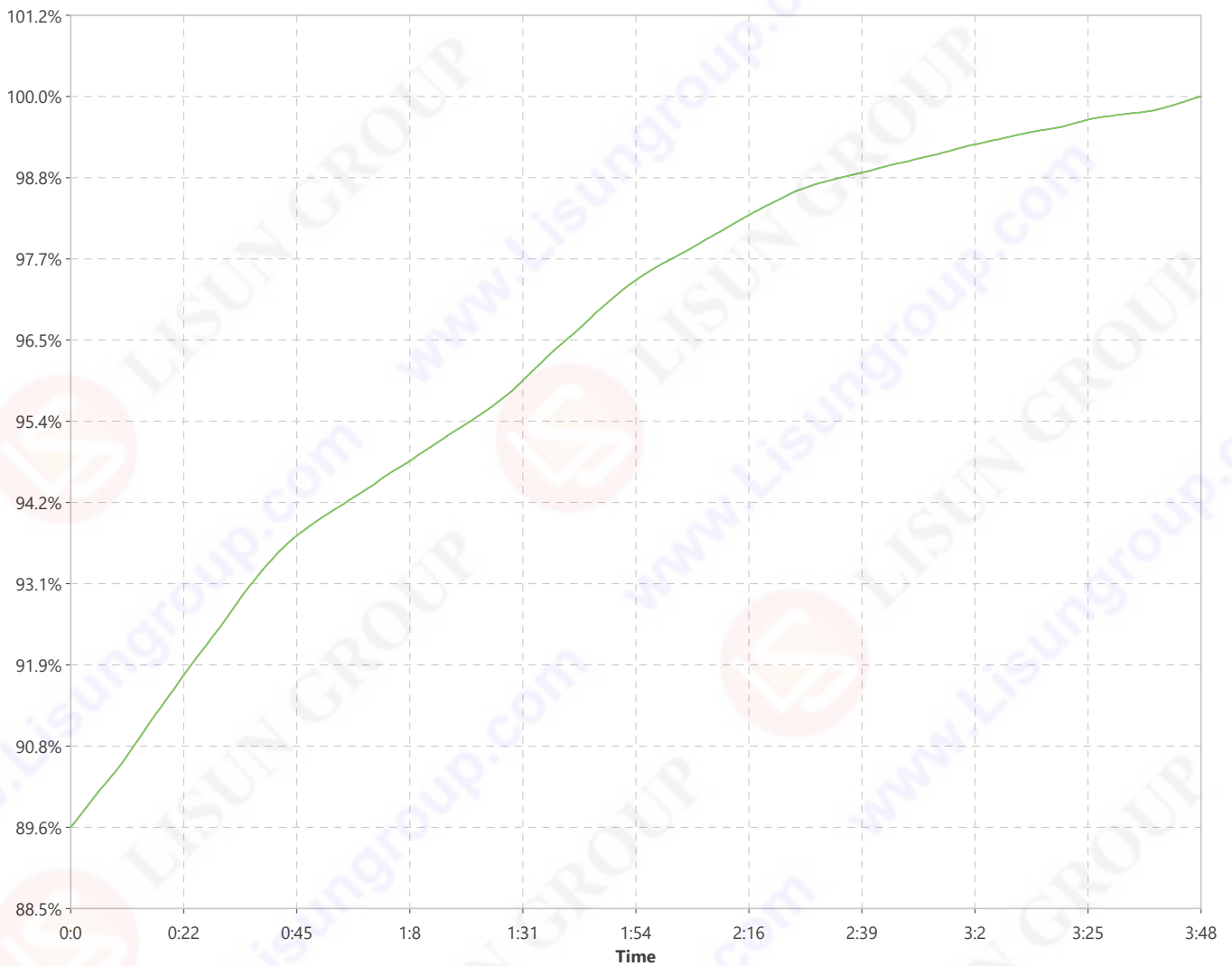
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### Warmup Log



Stable time: 3:48

Uptime: 0:0

Parameters	Maximum	Minimum	Change
Radiation intensity ,mW/sr	85.36	76.52	8.84
Power ,W	0.00	0.00	0.00
Irradiance ,mW/m <sup>2</sup>	48.619	43.586	5.033

 Test Type : Type C  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

Test Distance : 1.325 m

 C Plane (°): 0.0-360.0:10.0  
 Temperature : 25.0°C

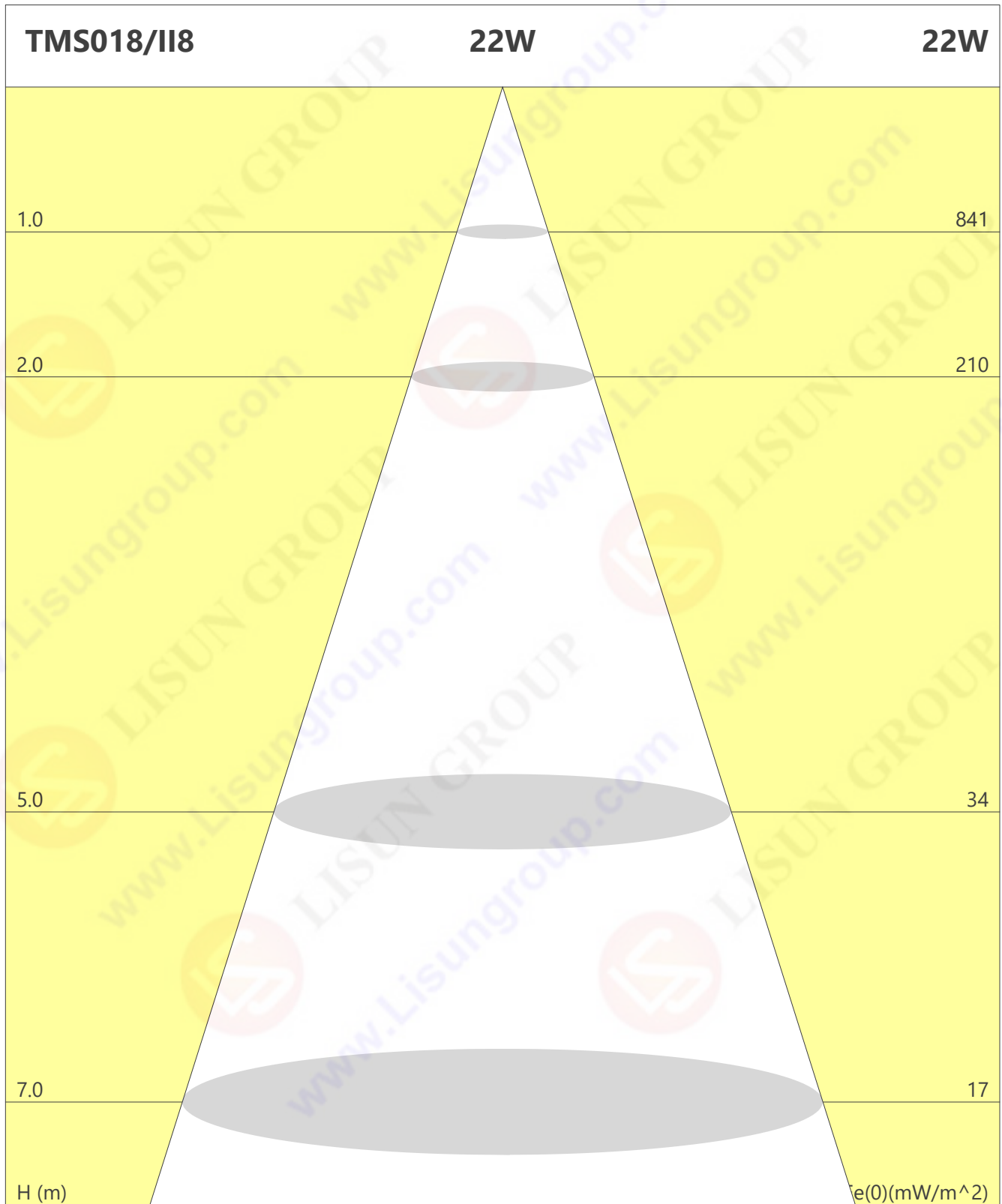
 γ (°): 0.0-180.0:1.0  
 Humidity : 65.0%

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**Irradiance-Distance**

 Test Type : Type C  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

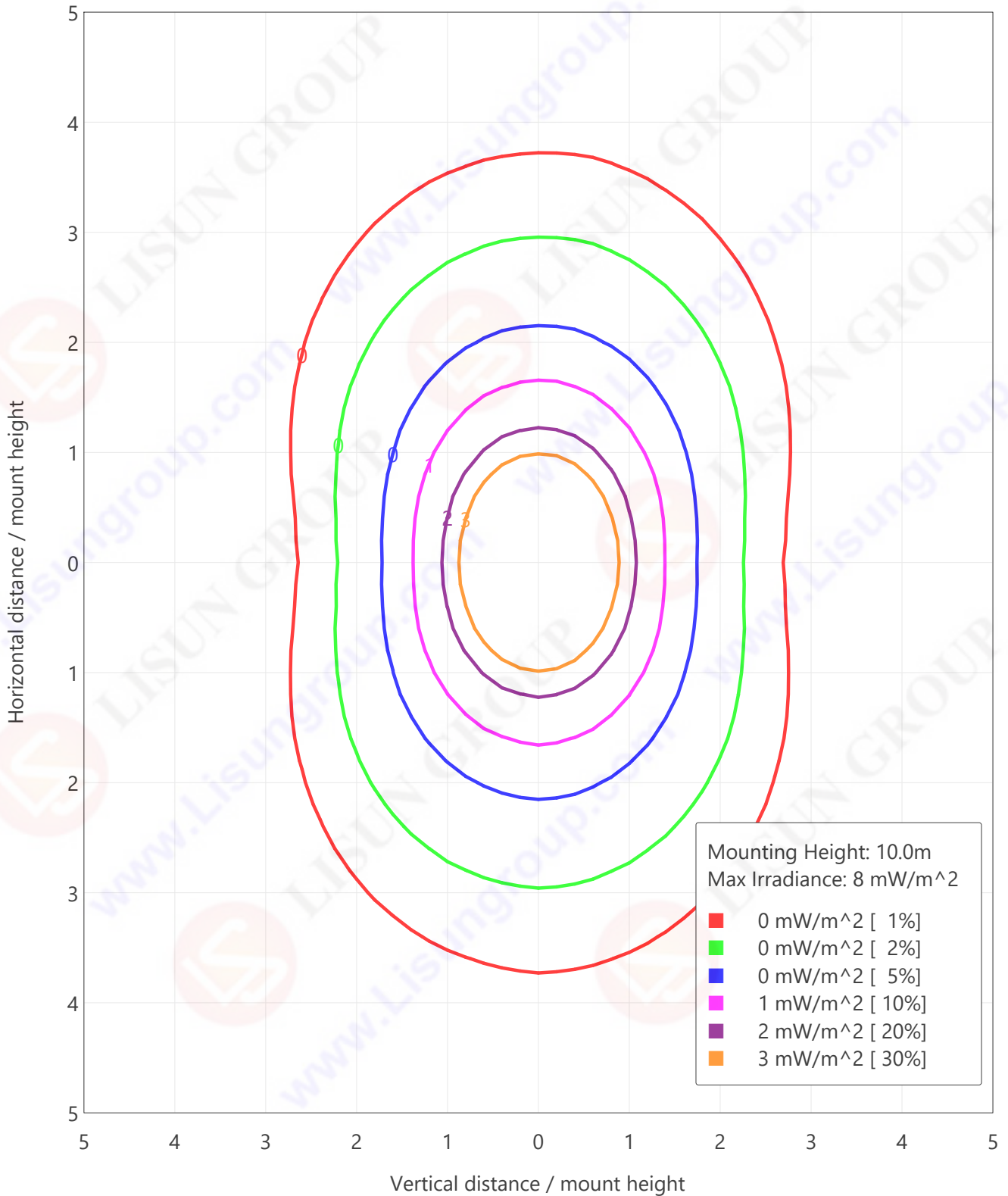
Test Distance : 1.325 m

 C Plane (°): 0.0-360.0:10.0  
 Temperature : 25.0°C

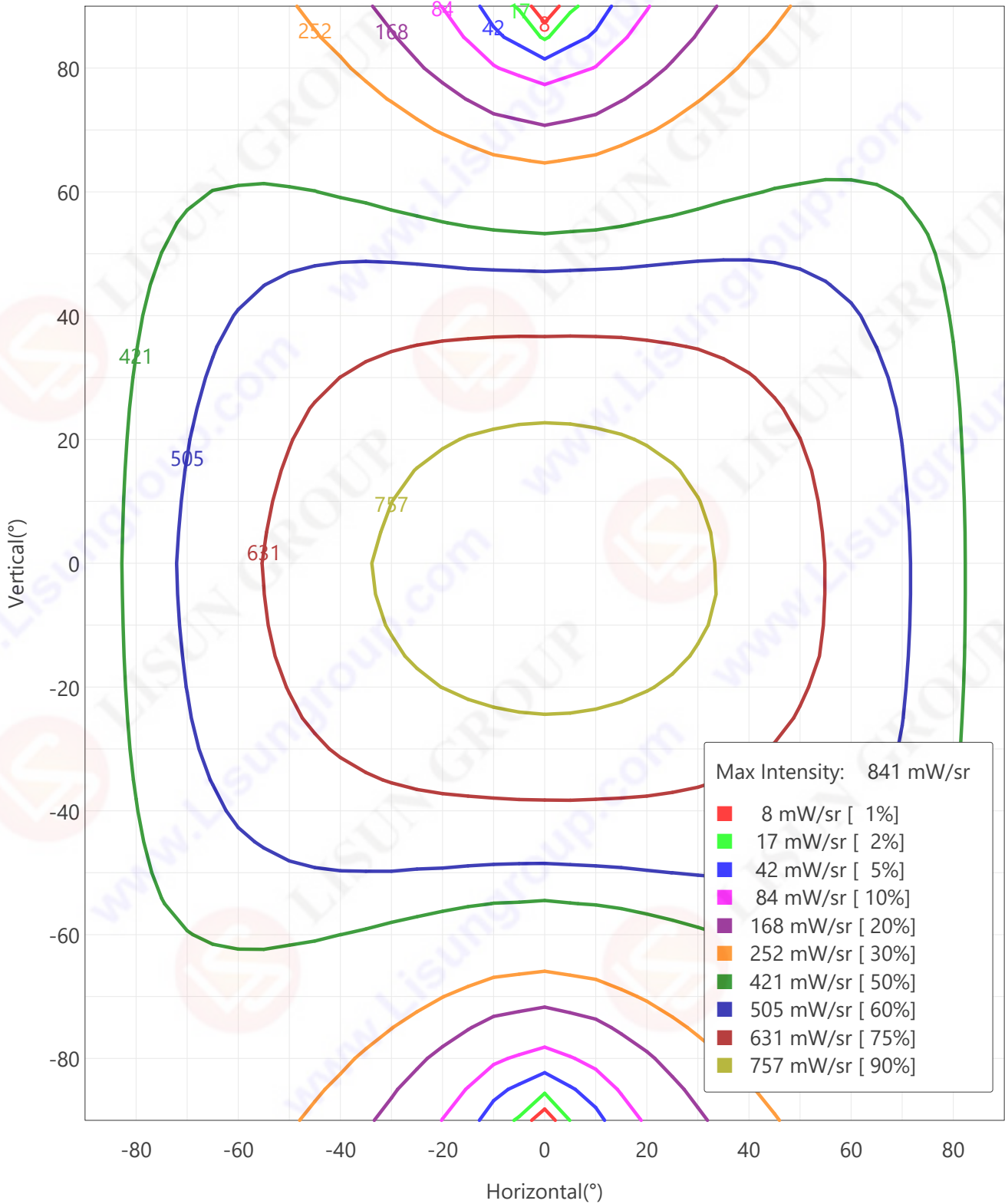
 γ (°): 0.0-180.0:1.0  
 Humidity : 65.0%

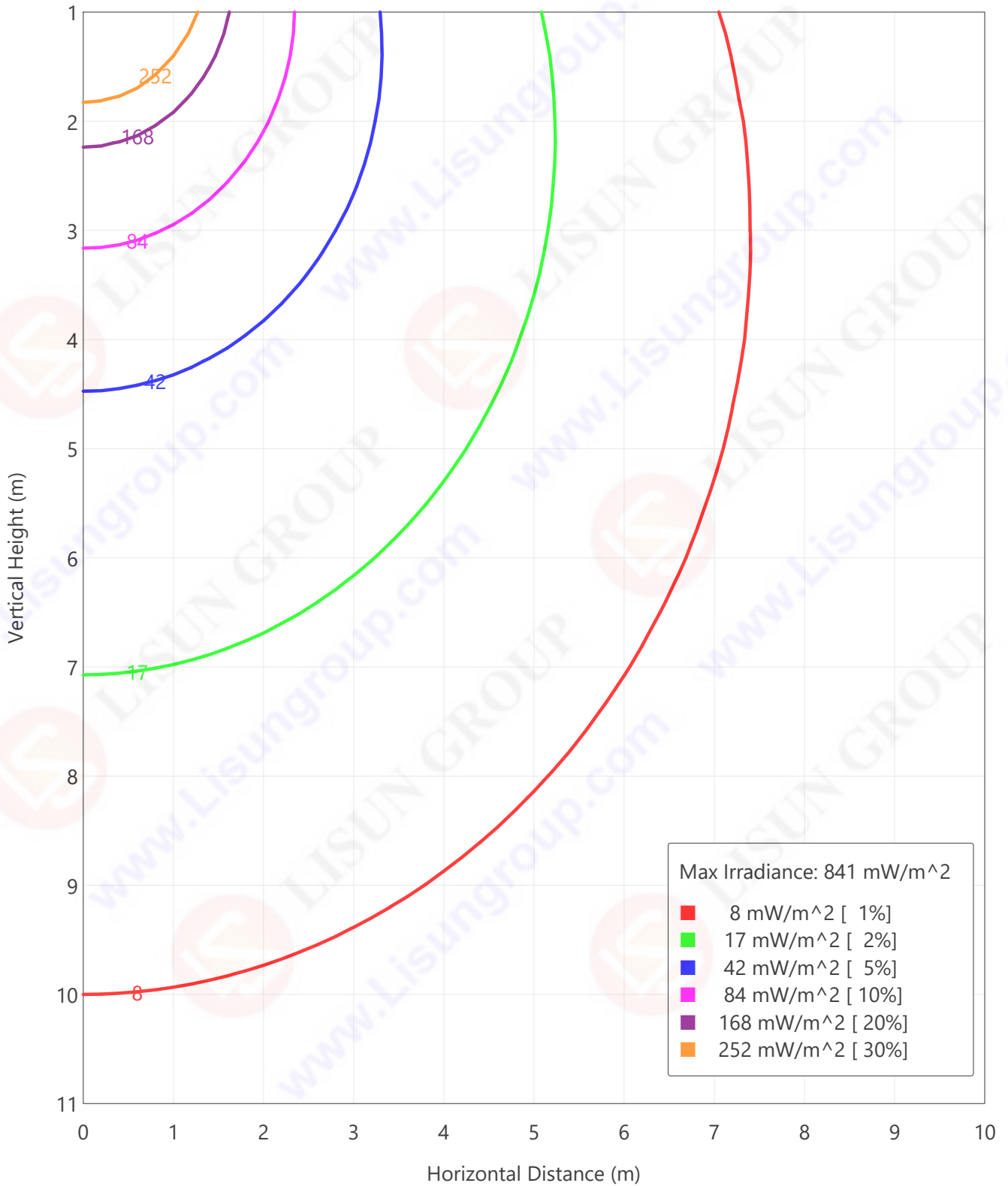
Review By :

### Iso-Irradiance



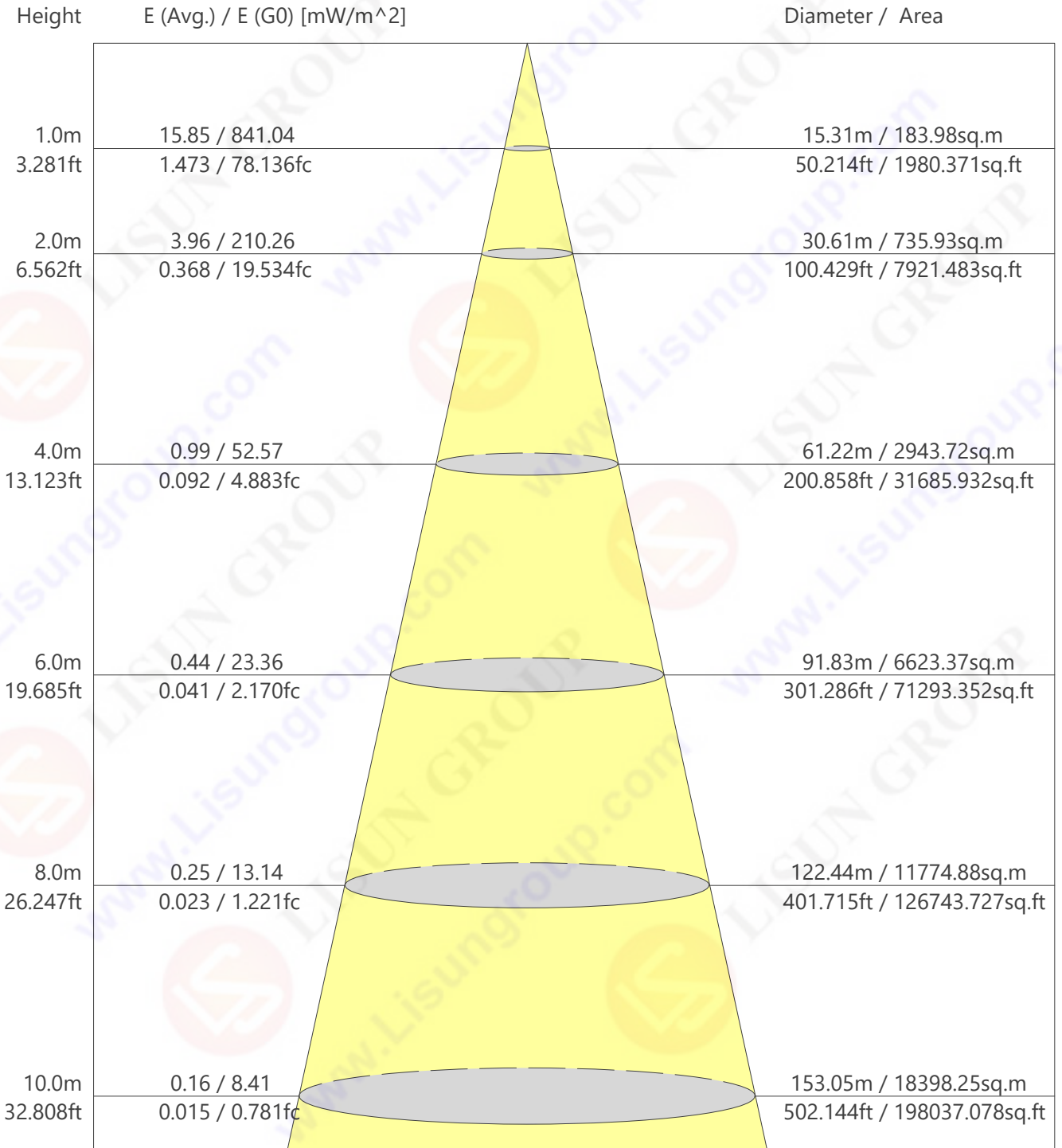
**Iso-RadiationIntensity**



**Vertical Iso-Irradiance Plot**




### Average Irradiance Effective Figure



Beam Angle: 165.1° Flux Out: 2916.33mW



Area Flux

Vertical ∅(E)	Horizontal																				∅(T)	∅(E)
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90			
90	1.0	2.8	4.3	5.3	5.6	5.1	3.9	2.3	1.0	1.1	2.4	3.9	5.1	5.6	5.3	4.3	2.8	1.0	62.7	58.5		
80	1.0	3.0	4.8	6.1	6.9	6.8	6.1	4.9	3.8	3.8	4.9	6.1	6.8	6.8	6.1	4.7	2.9	1.0	86.4	85.8		
70	1.0	3.1	5.2	7.0	8.3	9.0	8.9	8.3	7.8	7.8	8.3	8.9	8.9	8.3	7.0	5.2	3.1	1.0	117.2	117.2		
60	1.0	3.3	5.7	8.0	9.9	11.2	11.9	12.1	12.1	12.1	12.1	11.9	11.2	9.8	7.9	5.6	3.3	1.0	150.2	150.2		
50	1.0	3.4	6.1	8.9	11.4	13.4	14.9	15.8	16.2	16.2	15.7	14.8	13.4	11.3	8.8	6.1	3.4	1.0	181.8	181.8		
40	1.1	3.6	6.5	9.6	12.7	15.4	17.5	18.9	19.6	19.6	18.9	17.4	15.3	12.6	9.6	6.4	3.5	1.1	209.4	209.4		
30	1.1	3.7	6.8	10.3	13.7	16.9	19.5	21.4	22.4	22.4	21.4	19.5	16.8	13.7	10.2	6.8	3.7	1.1	231.2	231.2		
20	1.1	3.7	7.0	10.7	14.5	18.0	21.0	23.1	24.2	24.2	23.1	20.9	17.9	14.4	10.6	7.0	3.7	1.1	246.4	246.4		
10	1.1	3.8	7.2	11.0	14.9	18.6	21.7	24.0	25.2	25.2	24.0	21.7	18.5	14.9	11.0	7.2	3.8	1.1	254.5	254.5		
0	1.1	3.8	7.2	11.0	15.0	18.7	21.8	24.1	25.3	25.3	24.0	21.8	18.6	14.9	11.0	7.2	3.8	1.1	255.7	255.7		
10	1.1	3.8	7.1	10.9	14.7	18.2	21.2	23.3	24.5	24.4	23.3	21.1	18.1	14.5	10.8	7.1	3.8	1.1	248.9	248.9		
20	1.1	3.7	6.9	10.4	14.0	17.2	19.8	21.7	22.7	22.7	21.7	19.7	17.0	13.8	10.3	6.9	3.7	1.1	234.6	234.6		
30	1.1	3.6	6.6	9.8	12.9	15.7	17.9	19.4	20.1	20.1	19.3	17.7	15.5	12.8	9.7	6.5	3.6	1.1	213.4	213.4		
40	1.1	3.5	6.3	9.1	11.6	13.8	15.3	16.3	16.7	16.7	16.2	15.2	13.6	11.5	8.9	6.2	3.5	1.1	186.3	186.3		
50	1.0	3.4	5.8	8.2	10.2	11.6	12.4	12.7	12.7	12.6	12.6	12.2	11.4	10.0	8.0	5.7	3.3	1.0	154.8	154.8		
60	1.0	3.2	5.4	7.3	8.6	9.3	9.4	8.8	8.3	8.3	8.7	9.1	9.1	8.4	7.1	5.2	3.1	1.0	121.4	121.4		
70	1.0	3.0	4.9	6.4	7.2	7.2	6.5	5.3	4.2	4.1	5.1	6.3	6.9	6.9	6.2	4.8	3.0	1.0	89.9	89.6		
80	1.0	2.9	4.5	5.5	5.9	5.4	4.2	2.7	1.3	1.2	2.4	4.0	5.2	5.6	5.3	4.3	2.8	1.0	65.1	61.0		
90 ∅(T)	18.8	61.4	108.4	155.4	197.8	231.4	253.9	265.2	268.2	267.7	264.0	252.2	229.4	195.8	153.7	107.1	60.7	18.7	3110	---		
∅(E)	18.8	61.4	108.4	155.4	197.8	231.4	253.9	263.3	265.5	265.0	262.1	252.2	229.4	195.8	153.7	107.1	60.7	18.7	---	3101		

Unit: mW

Test Type: Type C Test Distance: 1.325 m C Plane (°): 0.0-360.0:10.0 γ (°): 0.0-180.0:1.0  
Test Device: Lisun LSG-1890B Temperature: 25.0°C Humidity: 65.0%

Test Lab: Lisun Instruments Limited

Test By: JACK

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### Zonal Flux

Gamma °	I <sub>mean</sub> mW	Zonal Flux mW	Sum Zonal Flux mW	Rel Zonal Flux %	Sum Rel Zonal Flux %
0.0-1.0	841.0	0.8	0.8	0.02	0.02
1.0-2.0	840.8	2.4	3.2	0.07	0.09
2.0-3.0	840.3	4.0	7.2	0.11	0.20
3.0-4.0	839.6	5.6	12.9	0.15	0.35
4.0-5.0	838.6	7.2	20.1	0.20	0.55
5.0-6.0	837.5	8.8	28.9	0.24	0.79
6.0-7.0	836.1	10.4	39.3	0.29	1.08
7.0-8.0	834.4	11.9	51.2	0.33	1.41
8.0-9.0	832.5	13.5	64.7	0.37	1.78
9.0-10.0	830.4	15.0	79.7	0.41	2.19
10.0-11.0	828.1	16.5	96.3	0.45	2.64
11.0-12.0	825.6	18.0	114.3	0.50	3.14
12.0-13.0	822.8	19.5	133.9	0.54	3.68
13.0-14.0	819.8	21.0	154.8	0.58	4.25
14.0-15.0	816.6	22.4	177.3	0.62	4.87
15.0-16.0	813.1	23.8	201.1	0.65	5.52
16.0-17.0	809.5	25.2	226.3	0.69	6.22
17.0-18.0	805.7	26.6	252.9	0.73	6.95
18.0-19.0	801.6	27.9	280.8	0.77	7.71
19.0-20.0	797.3	29.2	310.0	0.80	8.51
20.0-21.0	792.9	30.4	340.4	0.84	9.35
21.0-22.0	788.2	31.7	372.1	0.87	10.22
22.0-23.0	783.3	32.9	404.9	0.90	11.12
23.0-24.0	778.2	34.0	439.0	0.93	12.06
24.0-25.0	773.0	35.2	474.1	0.97	13.02
25.0-26.0	767.5	36.2	510.4	1.00	14.02
26.0-27.0	761.8	37.3	547.6	1.02	15.04
27.0-28.0	755.8	38.3	585.9	1.05	16.09
28.0-29.0	749.8	39.2	625.1	1.08	17.17
29.0-30.0	743.5	40.1	665.3	1.10	18.27
30.0-31.0	737.1	41.0	706.3	1.13	19.40
31.0-32.0	730.5	41.9	748.2	1.15	20.55
32.0-33.0	723.7	42.6	790.8	1.17	21.72
33.0-34.0	716.6	43.4	834.2	1.19	22.91
34.0-35.0	709.4	44.1	878.2	1.21	24.12
35.0-36.0	702.1	44.7	923.0	1.23	25.35
36.0-37.0	694.6	45.3	968.3	1.24	26.59
37.0-38.0	687.0	45.9	1014.1	1.26	27.85
38.0-39.0	679.1	46.4	1060.5	1.27	29.13
39.0-40.0	671.1	46.8	1107.3	1.29	30.41

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

### Zonal Flux

Gamma °	I <sub>mean</sub> mW	Zonal Flux mW	Sum Zonal Flux mW	Rel Zonal Flux %	Sum Rel Zonal Flux %
40.0-41.0	663.0	47.2	1154.5	1.30	31.71
41.0-42.0	654.6	47.6	1202.1	1.31	33.02
42.0-43.0	646.1	47.9	1250.0	1.31	34.33
43.0-44.0	637.6	48.1	1298.1	1.32	35.65
44.0-45.0	628.9	48.3	1346.4	1.33	36.98
45.0-46.0	620.1	48.5	1394.9	1.33	38.31
46.0-47.0	611.0	48.6	1443.5	1.34	39.65
47.0-48.0	601.8	48.7	1492.2	1.34	40.99
48.0-49.0	592.5	48.7	1540.9	1.34	42.32
49.0-50.0	583.3	48.6	1589.5	1.34	43.66
50.0-51.0	573.9	48.6	1638.0	1.33	44.99
51.0-52.0	564.2	48.4	1686.5	1.33	46.32
52.0-53.0	554.6	48.2	1734.7	1.33	47.65
53.0-54.0	544.9	48.0	1782.8	1.32	48.97
54.0-55.0	535.0	47.8	1830.5	1.31	50.28
55.0-56.0	525.2	47.5	1878.0	1.30	51.58
56.0-57.0	515.2	47.1	1925.1	1.29	52.88
57.0-58.0	505.2	46.7	1971.8	1.28	54.16
58.0-59.0	495.2	46.3	2018.1	1.27	55.43
59.0-60.0	485.1	45.8	2064.0	1.26	56.69
60.0-61.0	474.9	45.3	2109.3	1.24	57.93
61.0-62.0	464.7	44.8	2154.1	1.23	59.16
62.0-63.0	454.6	44.2	2198.3	1.21	60.38
63.0-64.0	444.6	43.6	2241.9	1.20	61.58
64.0-65.0	434.5	43.0	2284.9	1.18	62.76
65.0-66.0	424.4	42.3	2327.3	1.16	63.92
66.0-67.0	414.2	41.7	2368.9	1.14	65.07
67.0-68.0	404.0	40.9	2409.8	1.12	66.19
68.0-69.0	393.9	40.2	2450.0	1.10	67.29
69.0-70.0	384.1	39.5	2489.5	1.08	68.38
70.0-71.0	374.3	38.7	2528.2	1.06	69.44
71.0-72.0	364.5	37.9	2566.1	1.04	70.48
72.0-73.0	354.7	37.1	2603.2	1.02	71.50
73.0-74.0	345.1	36.3	2639.5	1.00	72.50
74.0-75.0	335.7	35.5	2675.0	0.97	73.47
75.0-76.0	326.3	34.6	2709.6	0.95	74.42
76.0-77.0	317.2	33.8	2743.4	0.93	75.35
77.0-78.0	308.1	33.0	2776.4	0.91	76.26
78.0-79.0	299.1	32.1	2808.6	0.88	77.14
79.0-80.0	290.4	31.3	2839.9	0.86	78.00

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### Zonal Flux

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80.0-81.0	282.1	30.5	2870.4	0.84	78.84
81.0-82.0	273.8	29.7	2900.1	0.82	79.65
82.0-83.0	265.7	28.9	2929.0	0.79	80.45
83.0-84.0	257.9	28.1	2957.1	0.77	81.22
84.0-85.0	250.4	27.3	2984.4	0.75	81.97
85.0-86.0	243.0	26.6	3011.0	0.73	82.70
86.0-87.0	236.0	25.8	3036.8	0.71	83.41
87.0-88.0	229.3	25.1	3061.9	0.69	84.10
88.0-89.0	222.9	24.4	3086.4	0.67	84.77
89.0-90.0	216.7	23.8	3110.1	0.65	85.42
90.0-91.0	210.8	23.1	3133.2	0.63	86.06
91.0-92.0	205.1	22.5	3155.7	0.62	86.68
92.0-93.0	199.2	21.8	3177.5	0.60	87.28
93.0-94.0	193.3	21.2	3198.7	0.58	87.86
94.0-95.0	187.4	20.5	3219.2	0.56	88.42
95.0-96.0	181.5	19.8	3239.0	0.54	88.96
96.0-97.0	175.4	19.1	3258.1	0.52	89.49
97.0-98.0	168.8	18.4	3276.5	0.50	89.99
98.0-99.0	161.2	17.5	3293.9	0.48	90.47
99.0-100.0	153.0	16.5	3310.5	0.45	90.93
100.0-101.0	145.0	15.6	3326.1	0.43	91.36
101.0-102.0	138.4	14.9	3341.0	0.41	91.77
102.0-103.0	133.5	14.3	3355.3	0.39	92.16
103.0-104.0	129.6	13.8	3369.1	0.38	92.54
104.0-105.0	126.2	13.4	3382.5	0.37	92.91
105.0-106.0	122.9	13.0	3395.5	0.36	93.26
106.0-107.0	119.5	12.6	3408.1	0.35	93.61
107.0-108.0	116.3	12.2	3420.2	0.33	93.94
108.0-109.0	113.1	11.8	3432.0	0.32	94.26
109.0-110.0	109.9	11.4	3443.3	0.31	94.58
110.0-111.0	106.8	11.0	3454.3	0.30	94.88
111.0-112.0	103.7	10.6	3464.9	0.29	95.17
112.0-113.0	100.6	10.2	3475.1	0.28	95.45
113.0-114.0	97.7	9.8	3484.9	0.27	95.72
114.0-115.0	94.8	9.5	3494.4	0.26	95.98
115.0-116.0	92.0	9.1	3503.5	0.25	96.23
116.0-117.0	89.2	8.8	3512.2	0.24	96.47
117.0-118.0	86.0	8.4	3520.6	0.23	96.70
118.0-119.0	82.0	7.9	3528.5	0.22	96.92
119.0-120.0	77.5	7.4	3535.9	0.20	97.12

 Test Type : Type C      Test Distance : 1.325 m  
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 Temperature : 25.0°C      Humidity : 65.0%

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### Zonal Flux

Gamma °	I <sub>mean</sub> mW	Zonal Flux mW	Sum Zonal Flux mW	Rel Zonal Flux %	Sum Rel Zonal Flux %
120.0-121.0	72.9	6.9	3542.8	0.19	97.31
121.0-122.0	69.1	6.5	3549.2	0.18	97.49
122.0-123.0	65.9	6.1	3555.3	0.17	97.65
123.0-124.0	63.2	5.8	3561.1	0.16	97.81
124.0-125.0	60.5	5.5	3566.6	0.15	97.96
125.0-126.0	57.7	5.2	3571.7	0.14	98.10
126.0-127.0	55.1	4.9	3576.6	0.13	98.24
127.0-128.0	52.7	4.6	3581.2	0.13	98.36
128.0-129.0	50.2	4.3	3585.5	0.12	98.48
129.0-130.0	47.8	4.0	3589.5	0.11	98.59
130.0-131.0	45.6	3.8	3593.3	0.10	98.70
131.0-132.0	43.7	3.6	3596.9	0.10	98.80
132.0-133.0	41.9	3.4	3600.3	0.09	98.89
133.0-134.0	40.1	3.2	3603.5	0.09	98.98
134.0-135.0	38.5	3.0	3606.5	0.08	99.06
135.0-136.0	36.9	2.8	3609.4	0.08	99.14
136.0-137.0	35.3	2.7	3612.0	0.07	99.21
137.0-138.0	33.7	2.5	3614.5	0.07	99.28
138.0-139.0	32.2	2.3	3616.9	0.06	99.34
139.0-140.0	30.7	2.2	3619.0	0.06	99.40
140.0-141.0	29.2	2.0	3621.1	0.06	99.46
141.0-142.0	27.7	1.9	3623.0	0.05	99.51
142.0-143.0	26.2	1.8	3624.7	0.05	99.56
143.0-144.0	24.8	1.6	3626.3	0.04	99.60
144.0-145.0	23.5	1.5	3627.8	0.04	99.64
145.0-146.0	22.1	1.4	3629.2	0.04	99.68
146.0-147.0	20.8	1.3	3630.5	0.03	99.72
147.0-148.0	19.5	1.1	3631.6	0.03	99.75
148.0-149.0	18.3	1.0	3632.7	0.03	99.78
149.0-150.0	17.1	1.0	3633.6	0.03	99.80
150.0-151.0	16.0	0.9	3634.5	0.02	99.83
151.0-152.0	14.9	0.8	3635.3	0.02	99.85
152.0-153.0	13.9	0.7	3636.0	0.02	99.87
153.0-154.0	12.9	0.6	3636.6	0.02	99.88
154.0-155.0	12.0	0.6	3637.2	0.02	99.90
155.0-156.0	11.1	0.5	3637.7	0.01	99.91
156.0-157.0	10.2	0.4	3638.1	0.01	99.93
157.0-158.0	9.4	0.4	3638.5	0.01	99.94
158.0-159.0	8.6	0.3	3638.9	0.01	99.95
159.0-160.0	7.8	0.3	3639.2	0.01	99.96

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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### Zonal Flux

Gamma °	I <sub>mean</sub> mW	Zonal Flux mW	Sum Zonal Flux mW	Rel Zonal Flux %	Sum Rel Zonal Flux %
160.0-161.0	7.1	0.3	3639.4	0.01	99.96
161.0-162.0	6.4	0.2	3639.6	0.01	99.97
162.0-163.0	5.8	0.2	3639.8	0.01	99.97
163.0-164.0	5.2	0.2	3640.0	0.00	99.98
164.0-165.0	4.6	0.1	3640.1	0.00	99.98
165.0-166.0	4.1	0.1	3640.2	0.00	99.98
166.0-167.0	3.7	0.1	3640.3	0.00	99.99
167.0-168.0	3.3	0.1	3640.4	0.00	99.99
168.0-169.0	3.0	0.1	3640.5	0.00	99.99
169.0-170.0	2.8	0.1	3640.5	0.00	99.99
170.0-171.0	2.7	0.0	3640.6	0.00	99.99
171.0-172.0	2.7	0.0	3640.6	0.00	100.00
172.0-173.0	2.7	0.0	3640.7	0.00	100.00
173.0-174.0	2.7	0.0	3640.7	0.00	100.00
174.0-175.0	2.7	0.0	3640.7	0.00	100.00
175.0-176.0	2.7	0.0	3640.8	0.00	100.00
176.0-177.0	2.7	0.0	3640.8	0.00	100.00
177.0-178.0	2.7	0.0	3640.8	0.00	100.00
178.0-179.0	2.7	0.0	3640.8	0.00	100.00
179.0-180.0	2.7	0.0	3640.8	0.00	100.00

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

**Light Distribution Data**

Unit: mW

G\C	C0.0	C10.0	C20.0	C30.0	C40.0	C50.0	C60.0	C70.0
G0.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0
G1.0	841.0	841.0	841.0	841.0	841.1	841.1	841.1	841.1
G2.0	840.8	840.8	840.8	840.8	840.8	840.9	840.9	840.9
G3.0	840.5	840.4	840.4	840.4	840.4	840.4	840.4	840.4
G4.0	839.8	839.8	839.7	839.6	839.7	839.7	839.7	839.7
G5.0	839.1	839.0	838.9	838.8	838.9	838.6	838.7	838.6
G6.0	838.2	838.1	838.0	837.8	837.8	837.4	837.4	837.3
G7.0	837.2	837.0	836.8	836.6	836.4	836.0	835.9	835.7
G8.0	836.0	835.9	835.5	835.2	834.7	834.3	833.8	833.5
G9.0	834.8	834.6	834.1	833.6	832.9	832.5	831.8	831.4
G10.0	833.0	833.1	832.5	831.9	831.0	830.3	829.5	828.9
G11.0	831.4	831.4	830.8	829.9	828.8	828.0	826.9	826.2
G12.0	829.6	829.3	828.4	827.4	826.5	824.9	824.1	823.2
G13.0	827.7	827.3	826.3	825.1	824.0	822.1	821.1	820.0
G14.0	825.7	825.2	824.1	822.6	821.3	819.1	817.8	815.7
G15.0	823.6	823.0	821.7	820.0	817.7	815.8	813.4	811.9
G16.0	821.3	820.7	819.1	817.2	814.6	812.3	809.6	807.8
G17.0	818.9	818.2	816.5	814.2	811.2	808.6	805.5	803.4
G18.0	815.8	815.1	813.1	810.4	807.7	804.0	801.2	798.8
G19.0	813.2	812.3	810.1	807.1	804.0	799.8	796.7	793.9
G20.0	810.4	809.5	807.0	803.6	800.1	795.5	791.9	787.8
G21.0	807.4	806.5	803.7	800.0	796.0	790.9	785.8	782.3
G22.0	804.4	803.3	800.3	796.2	790.9	786.1	780.4	776.5
G23.0	801.2	800.1	796.8	792.3	786.5	781.2	775.0	770.5
G24.0	797.3	796.7	793.1	787.4	781.9	776.0	769.3	764.3
G25.0	793.8	792.4	788.5	783.1	777.1	769.5	763.2	757.8
G26.0	790.2	788.7	784.6	778.7	772.2	763.9	757.0	751.0
G27.0	786.5	785.0	780.5	774.1	767.0	758.1	750.6	742.5
G28.0	782.8	781.0	776.3	769.5	760.7	752.2	742.6	735.2
G29.0	778.9	777.0	772.0	764.7	755.3	746.1	735.8	727.7
G30.0	774.0	772.9	767.5	759.7	749.6	739.7	728.6	719.9
G31.0	769.8	767.7	762.8	753.5	743.9	731.9	721.2	711.9
G32.0	765.5	763.3	757.1	748.2	737.9	725.1	713.7	703.6
G33.0	761.1	758.7	752.3	742.8	731.8	718.2	706.1	695.1
G34.0	756.6	754.1	747.4	737.4	724.4	711.3	696.6	684.7
G35.0	752.0	749.4	742.2	731.7	718.1	704.0	688.5	675.7
G36.0	747.1	744.5	737.0	725.9	711.5	696.6	680.1	666.5
G37.0	741.3	738.4	731.6	719.9	704.8	689.0	671.5	657.0
G38.0	736.3	733.3	725.1	712.8	698.0	679.9	662.9	647.4
G39.0	731.1	728.1	719.4	706.5	691.1	672.0	654.0	637.6

Test Type : Type C      Test Distance : 1.325 m

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Test Device : Lisun LSG-1890B

Temperature : 25.0°C      Humidity : 65.0%

Test Lab : Lisun Instruments Limited

Test By : JACK

Review By :



Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C0.0	C10.0	C20.0	C30.0	C40.0	C50.0	C60.0	C70.0
G40.0	725.9	722.7	713.7	700.2	684.0	663.9	644.9	627.5
G41.0	720.6	717.2	707.8	693.8	676.8	655.8	633.8	615.1
G42.0	715.1	711.6	701.9	687.3	667.9	647.4	624.3	604.6
G43.0	708.5	705.9	695.9	680.7	660.6	639.1	614.9	594.0
G44.0	702.9	699.1	688.6	672.7	653.1	628.9	605.2	583.3
G45.0	697.2	693.2	682.4	665.8	645.4	620.2	595.4	572.3
G46.0	691.3	687.2	676.0	658.9	637.7	611.4	585.3	561.1
G47.0	685.3	681.1	669.6	651.8	629.8	602.5	573.2	549.7
G48.0	679.3	675.0	663.1	644.7	620.3	593.5	563.1	536.0
G49.0	673.1	668.7	656.4	637.5	612.3	584.4	552.6	524.4
G50.0	665.5	662.2	649.6	630.1	604.0	575.1	542.0	512.3
G51.0	659.1	654.4	641.4	621.3	595.8	563.9	531.5	500.4
G52.0	652.8	647.8	634.4	613.8	587.5	554.5	520.8	488.4
G53.0	646.2	641.2	627.5	606.3	579.1	545.2	510.2	476.3
G54.0	639.7	634.5	620.5	598.7	569.2	535.8	497.4	461.9
G55.0	633.0	627.6	613.4	591.0	560.6	526.2	486.5	449.5
G56.0	626.2	620.8	606.1	583.3	552.1	516.7	475.7	437.2
G57.0	618.0	612.4	597.4	573.9	543.5	507.0	464.7	424.8
G58.0	611.1	605.4	590.1	566.1	534.9	495.5	453.9	412.5
G59.0	604.2	598.4	582.8	558.2	526.3	485.9	442.9	400.1
G60.0	597.0	591.1	575.2	550.2	517.5	476.1	429.6	385.0
G61.0	589.9	583.8	567.6	542.1	506.9	466.3	418.5	372.4
G62.0	582.7	576.5	560.0	534.0	498.1	456.6	407.6	360.0
G63.0	574.0	567.7	552.4	526.0	489.5	445.0	396.8	347.8
G64.0	566.8	560.3	543.3	516.3	480.8	435.4	386.0	335.5
G65.0	559.4	552.9	535.6	508.1	471.9	425.6	375.1	323.2
G66.0	551.9	545.3	527.8	500.0	463.1	415.9	364.2	310.9
G67.0	544.5	537.8	520.0	491.8	452.6	406.4	351.4	296.4
G68.0	535.6	530.2	512.3	483.7	443.9	396.9	341.0	284.6
G69.0	528.1	521.1	504.5	475.5	435.2	387.4	330.4	272.8
G70.0	520.4	513.4	496.6	467.3	426.4	376.0	319.9	261.0
G71.0	512.8	505.7	487.2	457.4	417.7	366.5	309.5	249.5
G72.0	505.2	498.0	479.3	449.3	409.1	357.2	299.4	238.2
G73.0	497.7	490.4	471.5	441.3	400.5	348.1	287.5	225.1
G74.0	490.1	482.7	463.7	433.2	390.3	339.1	277.7	214.4
G75.0	482.4	475.0	455.8	425.1	381.8	330.0	268.0	203.7
G76.0	473.1	465.6	447.9	416.9	373.4	319.3	258.4	193.3
G77.0	465.5	458.0	438.6	407.4	365.1	310.6	249.1	183.3
G78.0	457.9	450.3	430.9	399.5	356.9	302.1	240.1	173.7
G79.0	450.3	442.6	423.1	391.6	348.8	293.6	229.4	162.4

Test Type : Type C      Test Distance : 1.325 m

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Test Device : Lisun LSG-1890B

Temperature : 25.0°C      Humidity : 65.0%

Test Lab : Lisun Instruments Limited

Test By : JACK

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C0.0	C10.0	C20.0	C30.0	C40.0	C50.0	C60.0	C70.0
G80.0	442.6	434.9	415.3	383.7	340.7	285.3	220.7	153.2
G81.0	434.9	427.2	407.6	375.8	331.1	277.1	212.3	144.5
G82.0	425.8	419.5	399.9	368.1	323.3	269.1	204.1	136.1
G83.0	418.2	410.5	390.8	359.0	315.6	259.8	196.3	128.2
G84.0	410.7	402.9	383.2	351.4	308.0	252.2	188.8	120.6
G85.0	403.1	395.3	375.7	343.8	300.5	244.7	181.3	113.4
G86.0	395.6	387.8	368.2	336.5	293.1	237.4	172.9	105.3
G87.0	388.2	380.4	360.9	329.2	285.9	230.5	166.2	99.1
G88.0	379.4	373.1	353.6	322.0	277.4	223.7	159.8	93.4
G89.0	372.2	364.5	346.5	313.5	270.5	215.7	153.7	88.0
G90.0	364.9	357.2	337.8	306.4	263.6	209.2	147.6	82.9
G91.0	357.7	350.1	330.8	299.4	256.8	202.8	141.8	78.1
G92.0	350.7	343.1	324.0	292.8	250.3	196.7	136.4	73.9
G93.0	343.6	335.9	316.8	285.7	243.4	190.6	130.2	69.0
G94.0	336.0	328.3	309.3	278.3	235.1	184.5	125.1	64.8
G95.0	326.7	320.6	301.6	270.9	228.0	178.4	120.1	60.8
G96.0	319.0	311.3	292.6	262.1	221.0	171.2	115.4	57.0
G97.0	311.3	303.8	285.2	254.8	214.0	163.5	111.0	53.6
G98.0	303.7	296.2	277.8	247.5	203.4	156.1	106.8	50.3
G99.0	295.9	288.5	269.8	236.3	189.2	150.8	102.0	45.6
G100.0	286.8	278.2	256.2	220.8	177.2	146.1	98.2	41.0
G101.0	267.2	261.3	239.9	206.5	170.4	141.6	94.6	37.3
G102.0	250.2	244.6	225.2	198.0	166.2	137.3	90.9	34.3
G103.0	235.8	228.9	215.3	191.9	162.3	132.6	87.0	31.9
G104.0	228.2	222.9	210.2	187.4	158.6	128.8	82.7	30.0
G105.0	222.9	217.8	205.3	183.2	155.4	125.0	78.3	28.3
G106.0	217.9	212.8	200.5	179.4	152.4	121.1	73.8	26.6
G107.0	213.0	208.0	195.9	175.7	147.7	117.0	70.6	25.4
G108.0	207.2	203.2	191.3	171.5	143.5	112.9	67.6	24.3
G109.0	202.4	197.6	185.7	166.2	139.2	108.2	64.9	23.5
G110.0	197.6	192.8	181.0	161.6	135.0	104.9	62.3	22.8
G111.0	192.7	188.0	176.2	157.0	130.7	101.1	59.8	22.1
G112.0	187.8	183.2	171.4	152.4	126.6	97.4	57.1	21.3
G113.0	182.9	178.3	166.7	148.0	122.7	93.9	54.9	20.7
G114.0	176.9	173.4	161.9	143.6	119.9	90.4	52.8	20.1
G115.0	171.9	168.5	157.1	139.3	116.1	87.0	50.8	19.5
G116.0	166.9	162.7	151.6	135.6	112.0	83.0	48.9	19.0
G117.0	162.1	157.9	147.0	132.4	107.9	79.9	47.1	18.4
G118.0	157.3	152.7	143.1	128.2	103.9	76.9	45.4	18.0
G119.0	151.6	145.9	136.6	124.1	99.9	73.9	43.4	17.5

 Test Type : Type C      Test Distance : 1.325 m  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

 C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0  
 Temperature : 25.0°C      Humidity : 65.0%  
 Review By :

**Light Distribution Data**

Unit: mW

G\C	C0.0	C10.0	C20.0	C30.0	C40.0	C50.0	C60.0	C70.0
G120.0	146.4	130.1	129.1	120.0	95.7	71.0	41.7	17.0
G121.0	131.7	116.4	121.9	115.8	90.9	68.2	40.1	16.5
G122.0	124.7	102.9	114.0	110.6	87.1	65.1	38.6	16.1
G123.0	120.7	100.2	107.8	106.0	83.7	62.5	37.2	15.7
G124.0	117.0	98.4	101.8	101.2	80.4	60.0	35.7	15.3
G125.0	113.2	96.5	96.3	95.6	77.2	57.6	34.4	14.9
G126.0	109.2	94.5	91.3	89.8	74.0	55.2	32.8	14.3
G127.0	105.1	92.2	86.5	82.8	70.0	52.9	31.5	13.9
G128.0	100.2	89.4	82.2	77.4	66.7	50.7	30.3	13.4
G129.0	95.0	85.7	77.2	71.8	63.4	48.4	29.1	13.0
G130.0	90.6	81.1	73.7	68.4	60.2	45.8	27.9	12.5
G131.0	86.1	76.5	70.7	65.4	57.4	43.9	26.8	12.1
G132.0	81.7	72.8	68.1	62.6	54.6	42.2	25.5	11.5
G133.0	76.8	69.9	66.0	59.8	51.0	40.5	24.4	11.1
G134.0	74.6	68.6	63.5	56.7	48.4	38.7	23.3	10.6
G135.0	75.3	68.1	60.8	53.6	45.9	36.7	22.2	10.2
G136.0	71.9	65.0	57.6	50.2	43.9	34.2	21.2	9.7
G137.0	68.7	62.4	55.2	48.0	42.0	32.2	20.1	9.3
G138.0	65.5	59.9	53.0	46.2	40.3	30.3	19.0	8.8
G139.0	62.3	57.3	51.0	44.4	38.6	28.5	17.9	8.2
G140.0	59.3	54.8	48.9	42.7	36.0	26.8	16.6	7.8
G141.0	55.7	52.3	46.9	41.1	34.0	25.1	15.7	7.2
G142.0	52.9	49.5	44.6	39.4	32.0	23.3	14.7	6.7
G143.0	50.2	47.2	42.8	37.6	30.3	21.9	13.8	6.3
G144.0	47.6	44.9	41.0	35.6	28.2	20.6	12.8	5.8
G145.0	44.6	42.4	38.8	33.3	26.6	19.2	12.1	5.4
G146.0	42.3	40.4	36.8	31.5	24.9	18.1	11.2	4.9
G147.0	39.6	37.9	34.4	29.4	23.5	16.9	10.5	4.5
G148.0	37.0	35.8	32.5	27.8	21.9	15.9	9.7	3.9
G149.0	34.9	33.4	30.4	25.9	20.7	14.8	9.0	3.4
G150.0	32.5	31.2	28.3	24.2	19.2	13.7	8.4	3.1
G151.0	30.3	29.0	26.4	22.5	17.9	12.8	7.8	3.0
G152.0	28.3	27.1	24.6	21.0	16.7	11.9	6.9	3.0
G153.0	26.3	25.2	22.9	19.5	15.5	10.9	6.4	2.9
G154.0	24.1	23.4	21.2	18.1	14.2	9.9	5.9	2.9
G155.0	22.4	21.4	19.5	16.6	13.2	8.9	5.3	2.9
G156.0	20.7	19.9	18.1	15.4	12.0	8.2	4.6	2.9
G157.0	18.9	18.2	16.5	14.0	10.9	7.4	4.0	2.9
G158.0	17.3	16.6	15.1	12.8	9.4	6.5	3.4	2.9
G159.0	15.7	15.1	13.7	11.5	8.7	5.8	2.9	2.9

Test Type : Type C Test Distance : 1.325 m

C Plane (°): 0.0-360.0:10.0 γ (°): 0.0-180.0:1.0

Test Device : Lisun LSG-1890B

Temperature : 25.0°C

Humidity : 65.0%

Test Lab : Lisun Instruments Limited

Test By : JACK

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C0.0	C10.0	C20.0	C30.0	C40.0	C50.0	C60.0	C70.0
G160.0	14.3	13.7	12.4	9.9	7.7	5.2	2.8	2.9
G161.0	12.9	12.4	11.1	9.0	6.6	4.5	2.8	2.9
G162.0	11.4	10.7	9.4	8.1	5.9	3.8	2.8	2.9
G163.0	9.5	9.4	8.7	6.6	5.2	3.0	2.8	2.9
G164.0	8.7	8.4	7.2	6.0	4.4	2.7	2.8	2.9
G165.0	6.9	6.7	6.1	5.3	3.5	2.7	2.8	2.9
G166.0	5.9	5.9	5.3	4.3	2.8	2.7	2.8	2.9
G167.0	5.2	4.9	4.3	3.2	2.6	2.7	2.8	2.8
G168.0	4.1	3.8	3.2	2.6	2.6	2.7	2.8	2.8
G169.0	3.1	2.8	2.5	2.5	2.6	2.7	2.8	2.8
G170.0	2.5	2.5	2.5	2.5	2.6	2.7	2.8	2.8
G171.0	2.5	2.5	2.5	2.5	2.6	2.7	2.8	2.8
G172.0	2.5	2.5	2.5	2.5	2.6	2.7	2.7	2.8
G173.0	2.5	2.5	2.5	2.6	2.6	2.7	2.7	2.8
G174.0	2.5	2.5	2.5	2.6	2.6	2.7	2.7	2.8
G175.0	2.6	2.5	2.5	2.6	2.6	2.7	2.7	2.8
G176.0	2.6	2.5	2.6	2.6	2.6	2.7	2.7	2.8
G177.0	2.6	2.5	2.6	2.6	2.6	2.7	2.8	2.8
G178.0	2.6	2.5	2.6	2.6	2.6	2.7	2.8	2.8
G179.0	2.6	2.5	2.6	2.6	2.7	2.7	2.8	2.8
G180.0	2.6	2.6	2.6	2.6	2.7	2.7	2.8	2.8

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C80.0	C90.0	C100.0	C110.0	C120.0	C130.0	C140.0	C150.0
G0.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0
G1.0	841.1	841.2	841.2	841.2	841.2	841.2	841.1	841.1
G2.0	840.9	841.0	841.0	841.0	841.1	841.0	841.0	841.1
G3.0	840.3	840.5	840.5	840.6	840.7	840.7	840.7	840.8
G4.0	839.6	839.8	839.8	839.9	840.1	840.1	840.2	840.3
G5.0	838.5	838.7	838.7	838.9	838.9	839.3	839.5	839.6
G6.0	837.1	837.3	837.4	837.6	837.7	838.2	838.5	838.7
G7.0	835.4	835.7	835.8	836.1	836.3	836.7	837.1	837.6
G8.0	833.5	833.4	833.9	833.9	834.6	835.1	835.7	836.4
G9.0	831.3	831.2	831.3	831.8	832.6	833.3	834.1	834.9
G10.0	828.3	828.6	828.8	829.4	830.4	831.3	832.3	833.3
G11.0	825.4	825.7	825.9	826.7	827.9	829.0	830.3	831.5
G12.0	822.3	822.6	822.9	823.8	824.6	826.5	828.1	829.5
G13.0	818.9	819.2	819.5	820.6	821.6	823.8	825.1	826.9
G14.0	815.2	814.8	815.9	816.4	818.4	820.3	822.5	824.6
G15.0	811.3	810.7	812.0	812.6	814.9	817.1	819.6	822.1
G16.0	807.0	806.4	806.8	808.5	811.1	813.7	816.6	819.4
G17.0	801.5	801.8	802.2	804.2	807.1	810.1	813.3	816.5
G18.0	796.7	796.9	797.5	799.6	802.9	806.3	809.9	813.5
G19.0	791.6	791.8	792.4	794.8	797.5	802.2	806.4	809.8
G20.0	786.2	786.3	787.1	789.7	792.8	797.1	802.6	806.4
G21.0	780.4	779.4	781.3	783.2	787.8	792.6	797.8	802.9
G22.0	774.4	773.2	775.4	777.5	782.5	787.8	793.6	799.2
G23.0	768.2	766.9	767.9	771.6	777.1	783.0	789.3	795.4
G24.0	760.4	760.3	761.4	765.4	771.4	777.9	784.9	791.5
G25.0	753.6	753.4	754.6	759.0	765.5	772.6	780.2	786.5
G26.0	746.4	746.1	747.5	752.3	758.1	767.1	775.3	782.2
G27.0	739.0	738.6	740.1	745.3	751.7	760.2	769.3	777.8
G28.0	731.4	729.3	732.6	736.7	745.1	754.3	764.2	773.3
G29.0	723.5	721.3	723.2	729.3	738.4	748.3	758.9	768.6
G30.0	713.6	713.0	714.9	721.5	731.3	742.1	753.3	763.8
G31.0	705.1	704.2	706.3	713.6	724.1	735.6	747.6	758.8
G32.0	696.3	695.3	697.6	705.3	716.6	729.0	741.8	752.6
G33.0	687.4	686.2	688.7	697.0	707.5	722.3	736.0	747.4
G34.0	678.2	674.9	679.6	686.7	699.8	714.0	728.7	742.1
G35.0	668.7	665.2	670.2	677.8	691.8	706.9	722.5	736.5
G36.0	657.0	655.2	658.4	668.6	683.5	699.6	716.1	730.9
G37.0	646.8	644.8	648.4	659.2	675.1	692.2	709.6	725.0
G38.0	636.6	634.4	638.2	649.7	666.6	684.6	702.9	719.2
G39.0	626.0	623.6	627.7	640.0	656.0	676.9	696.1	711.9

 Test Type : Type C  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

Test Distance : 1.325 m

 C Plane (°): 0.0-360.0:10.0  
 Temperature : 25.0°C

 γ (°): 0.0-180.0:1.0  
 Humidity : 65.0%

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C80.0	C90.0	C100.0	C110.0	C120.0	C130.0	C140.0	C150.0
G40.0	615.1	612.5	616.9	630.0	647.0	669.0	689.2	705.7
G41.0	604.0	599.0	605.8	617.8	637.9	659.4	680.7	699.4
G42.0	592.7	587.4	594.7	607.3	628.6	651.2	673.6	693.1
G43.0	579.0	575.8	581.1	596.9	619.3	643.0	666.3	686.6
G44.0	567.4	563.9	569.6	586.3	609.9	634.6	659.0	680.1
G45.0	555.4	551.6	557.7	575.4	598.2	626.1	651.6	672.1
G46.0	543.3	539.1	545.6	564.2	588.3	617.5	643.9	665.3
G47.0	530.9	526.5	533.4	550.7	578.4	607.0	634.7	658.4
G48.0	518.5	511.2	518.6	539.5	568.3	598.2	627.0	651.5
G49.0	505.8	498.1	505.9	527.9	558.1	589.2	619.1	644.4
G50.0	490.2	484.7	492.9	516.1	547.6	580.1	611.0	637.2
G51.0	477.1	471.2	479.9	504.2	537.2	570.9	603.0	630.0
G52.0	463.9	457.6	466.7	492.3	524.7	561.7	594.8	621.2
G53.0	450.7	444.0	453.6	480.5	514.3	552.6	585.1	613.8
G54.0	437.5	427.6	440.5	466.2	503.8	541.5	577.0	606.4
G55.0	423.9	413.5	427.0	454.0	493.1	532.1	568.6	598.9
G56.0	407.5	399.3	410.6	441.7	482.3	522.7	560.3	591.2
G57.0	393.8	385.0	397.0	429.5	471.5	513.2	551.9	583.6
G58.0	380.2	370.8	383.4	417.3	458.7	503.8	543.4	574.4
G59.0	366.4	356.5	369.8	405.1	448.0	494.4	533.3	566.6
G60.0	352.4	341.9	355.8	390.2	437.0	482.8	524.7	558.7
G61.0	338.4	324.3	341.9	377.7	426.1	473.2	516.0	550.8
G62.0	324.5	309.8	325.4	365.4	415.3	463.7	507.4	542.9
G63.0	308.0	295.4	311.7	353.3	404.7	454.2	498.9	535.0
G64.0	294.3	281.0	298.2	341.2	394.1	444.8	490.3	527.1
G65.0	280.4	266.4	284.4	329.1	381.2	435.2	481.7	517.4
G66.0	266.7	251.9	270.8	317.0	370.6	425.6	471.2	509.4
G67.0	253.1	234.6	257.3	302.6	360.1	414.3	462.6	501.3
G68.0	237.1	220.6	241.6	291.0	349.7	405.0	454.1	493.3
G69.0	223.8	206.4	228.4	279.4	339.3	395.6	445.4	485.2
G70.0	210.6	192.2	215.3	267.7	328.9	386.2	436.8	477.1
G71.0	197.6	178.3	202.4	256.4	318.7	376.8	428.1	469.0
G72.0	184.9	164.6	190.0	245.3	306.7	367.7	417.9	459.3
G73.0	172.6	148.8	177.8	232.4	296.9	356.9	409.6	451.3
G74.0	160.5	135.7	165.9	221.8	287.2	348.0	401.2	443.3
G75.0	146.2	122.8	151.7	211.3	277.5	339.0	392.7	435.2
G76.0	134.7	110.2	140.5	201.0	268.1	330.2	384.3	427.2
G77.0	123.7	98.0	129.6	191.1	258.8	321.5	376.1	419.2
G78.0	113.2	86.4	119.2	181.5	248.2	313.0	366.4	409.8
G79.0	103.0	73.0	109.2	170.3	239.4	303.0	358.3	401.9

 Test Type : Type C      Test Distance : 1.325 m  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

 C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0  
 Temperature : 25.0°C      Humidity : 65.0%  
 Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C80.0	C90.0	C100.0	C110.0	C120.0	C130.0	C140.0	C150.0
G80.0	93.2	62.2	99.4	161.2	230.6	294.6	350.2	394.0
G81.0	83.9	52.0	90.2	152.5	222.3	286.5	342.3	386.2
G82.0	73.7	42.6	79.9	144.1	214.2	278.6	334.4	378.4
G83.0	65.7	34.0	72.0	136.2	206.4	270.9	326.8	370.8
G84.0	58.3	26.1	64.5	128.7	197.4	263.3	319.2	361.7
G85.0	51.4	19.0	57.4	121.5	190.0	255.7	311.6	354.1
G86.0	45.2	12.0	51.1	114.7	182.9	247.0	302.7	346.6
G87.0	39.6	7.4	45.4	107.1	176.2	239.9	295.5	339.3
G88.0	34.8	4.3	39.5	101.3	169.7	233.1	288.4	332.1
G89.0	29.9	2.6	35.3	95.9	163.5	226.4	281.4	324.9
G90.0	26.4	2.4	31.6	90.6	156.1	219.7	274.4	317.7
G91.0	23.5	2.3	28.3	85.7	150.3	213.2	267.5	309.2
G92.0	21.2	2.3	25.8	81.2	144.7	207.0	259.5	302.4
G93.0	18.5	2.3	23.3	76.2	139.4	199.6	252.5	295.2
G94.0	15.6	2.3	20.3	72.2	134.3	193.4	245.2	287.5
G95.0	11.8	2.3	18.1	68.4	129.4	187.4	237.9	279.9
G96.0	8.6	2.3	15.7	65.0	124.8	181.0	230.7	272.3
G97.0	6.9	2.4	13.0	61.8	119.5	173.2	222.3	263.2
G98.0	5.7	2.4	11.2	58.9	115.4	166.9	203.8	252.6
G99.0	5.0	2.4	9.8	55.5	111.5	161.1	189.7	235.4
G100.0	4.6	2.4	8.8	52.6	107.8	156.2	183.1	218.8
G101.0	4.3	2.4	8.0	49.9	104.3	151.7	178.4	209.2
G102.0	4.2	2.5	7.5	46.8	100.8	147.5	174.2	203.7
G103.0	4.2	2.5	7.2	43.7	96.5	143.7	170.4	198.1
G104.0	4.2	2.5	7.0	41.0	92.9	139.8	167.1	193.8
G105.0	4.3	2.5	6.8	38.8	89.3	135.8	162.9	189.8
G106.0	4.4	2.5	6.7	36.5	85.9	130.7	158.9	185.5
G107.0	4.6	2.5	6.6	34.7	82.6	126.5	155.0	181.1
G108.0	4.8	2.6	6.5	33.2	79.3	122.7	150.9	176.9
G109.0	4.9	2.6	6.4	31.8	76.0	118.9	146.7	172.6
G110.0	5.0	2.6	6.4	30.5	72.4	114.8	142.5	167.2
G111.0	5.1	2.6	6.3	29.4	69.6	110.8	139.1	162.7
G112.0	5.1	2.6	6.2	28.3	66.9	106.1	136.2	158.3
G113.0	5.1	2.7	6.1	27.1	64.3	102.4	132.2	154.2
G114.0	5.1	2.7	6.0	26.1	61.9	98.6	127.8	151.8
G115.0	5.1	2.7	6.0	25.2	59.5	95.0	123.4	148.5
G116.0	5.0	2.7	5.9	24.4	57.2	91.5	119.0	144.2
G117.0	4.9	2.7	5.9	23.6	54.5	88.1	114.7	139.1
G118.0	4.9	2.7	5.8	22.8	52.4	84.2	109.4	134.8
G119.0	4.7	2.8	5.8	21.9	50.4	81.0	105.0	130.2

Test Type : Type C      Test Distance : 1.325 m

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Test Device : Lisun LSG-1890B

Temperature : 25.0°C      Humidity : 65.0%

Test Lab : Lisun Instruments Limited

Test By : JACK

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C80.0	C90.0	C100.0	C110.0	C120.0	C130.0	C140.0	C150.0
G120.0	4.6	2.8	5.7	21.2	48.4	77.9	100.8	125.6
G121.0	4.4	2.8	5.6	20.4	46.4	75.0	97.1	120.7
G122.0	4.2	2.8	5.5	19.7	44.6	72.1	93.6	115.4
G123.0	4.1	2.8	5.4	19.1	42.5	69.3	90.0	108.5
G124.0	4.0	2.9	5.2	18.5	40.8	66.5	86.3	101.8
G125.0	3.9	2.9	5.1	17.8	39.1	63.3	81.7	94.9
G126.0	3.6	2.9	5.0	17.2	37.5	60.7	77.9	87.3
G127.0	3.4	2.9	4.8	16.5	36.0	58.1	74.6	82.0
G128.0	3.2	2.9	4.7	15.9	34.5	55.7	71.4	78.1
G129.0	3.0	2.9	4.6	15.4	33.1	53.5	68.0	74.1
G130.0	2.9	2.9	4.4	14.8	31.7	51.3	64.6	69.5
G131.0	2.9	3.0	4.2	14.3	30.1	49.3	60.9	66.5
G132.0	2.9	3.0	4.1	13.7	28.6	46.6	57.3	63.6
G133.0	2.9	3.0	3.9	13.1	27.2	44.2	54.8	61.3
G134.0	2.9	3.0	3.7	12.5	25.9	41.7	52.5	58.8
G135.0	2.9	3.0	3.4	12.0	24.6	39.4	50.3	56.7
G136.0	3.0	3.0	3.3	11.5	23.0	37.1	48.4	54.3
G137.0	3.0	3.0	3.1	10.9	21.8	34.7	46.1	52.5
G138.0	3.0	3.0	3.1	10.4	20.6	31.5	43.0	50.8
G139.0	3.0	3.1	3.1	9.8	19.4	29.6	40.6	49.0
G140.0	3.0	3.1	3.1	9.3	18.3	28.0	38.3	47.2
G141.0	3.0	3.1	3.1	8.7	17.2	26.4	36.1	45.0
G142.0	3.0	3.1	3.1	8.3	16.1	24.8	33.6	42.2
G143.0	3.0	3.1	3.1	7.8	15.1	23.1	30.8	40.0
G144.0	3.0	3.1	3.1	7.3	14.3	21.7	29.5	37.8
G145.0	3.0	3.1	3.1	6.9	13.3	20.5	28.0	34.8
G146.0	3.0	3.1	3.1	6.4	12.5	19.1	26.2	32.3
G147.0	3.0	3.1	3.1	6.0	11.7	18.1	24.9	30.7
G148.0	3.0	3.1	3.1	5.6	11.0	16.9	23.3	29.0
G149.0	3.0	3.1	3.1	5.2	10.3	15.8	21.7	27.1
G150.0	3.0	3.1	3.1	4.9	9.6	14.8	20.3	25.4
G151.0	3.0	3.1	3.1	4.5	8.9	14.0	19.0	23.7
G152.0	3.0	3.1	3.1	4.2	8.3	13.0	17.7	22.2
G153.0	3.0	3.0	3.1	3.8	7.8	12.1	16.6	20.7
G154.0	3.0	3.0	3.1	3.4	7.3	11.3	15.4	19.2
G155.0	3.0	3.0	3.0	3.1	6.7	10.5	14.4	17.9
G156.0	3.0	3.0	3.0	3.0	6.1	9.6	13.2	16.4
G157.0	3.0	3.0	3.0	3.0	5.6	8.9	12.1	15.1
G158.0	3.0	3.0	3.0	3.0	5.0	8.1	11.2	13.8
G159.0	2.9	3.0	3.0	3.0	4.6	7.4	10.2	12.8

 Test Type : Type C      Test Distance : 1.325 m  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

 C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0  
 Temperature : 25.0°C      Humidity : 65.0%  
 Review By :



Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C80.0	C90.0	C100.0	C110.0	C120.0	C130.0	C140.0	C150.0
G160.0	2.9	3.0	3.0	3.0	4.0	6.6	9.2	11.5
G161.0	2.9	2.9	3.0	3.0	3.6	5.8	8.3	10.4
G162.0	2.9	2.9	2.9	2.9	3.1	5.2	7.4	9.5
G163.0	2.9	2.9	2.9	2.9	2.9	4.5	6.4	8.4
G164.0	2.9	2.9	2.9	2.9	2.9	3.9	5.5	7.5
G165.0	2.9	2.9	2.9	2.9	2.9	3.4	4.8	6.4
G166.0	2.9	2.9	2.9	2.9	2.9	2.9	4.0	5.3
G167.0	2.9	2.9	2.9	2.9	2.8	2.8	3.4	4.4
G168.0	2.9	2.9	2.9	2.9	2.8	2.7	2.9	3.7
G169.0	2.9	2.9	2.9	2.9	2.8	2.7	2.7	3.1
G170.0	2.8	2.9	2.9	2.8	2.8	2.7	2.7	2.7
G171.0	2.8	2.9	2.9	2.8	2.8	2.7	2.7	2.7
G172.0	2.8	2.9	2.9	2.8	2.8	2.7	2.7	2.7
G173.0	2.8	2.9	2.8	2.8	2.8	2.7	2.7	2.7
G174.0	2.8	2.9	2.8	2.8	2.8	2.7	2.7	2.7
G175.0	2.8	2.9	2.8	2.8	2.8	2.7	2.7	2.7
G176.0	2.9	2.9	2.9	2.8	2.8	2.7	2.7	2.7
G177.0	2.8	2.9	2.8	2.8	2.8	2.8	2.7	2.7
G178.0	2.8	2.9	2.8	2.8	2.8	2.8	2.7	2.7
G179.0	2.8	2.9	2.8	2.8	2.8	2.8	2.7	2.7
G180.0	2.8	2.9	2.8	2.8	2.8	2.7	2.7	2.7

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C160.0	C170.0	C180.0	C190.0	C200.0	C210.0	C220.0	C230.0
G0.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0
G1.0	841.1	841.2	841.0	841.0	840.9	840.9	840.9	840.8
G2.0	841.0	841.1	840.7	840.6	840.6	840.5	840.4	840.3
G3.0	840.8	840.9	840.3	840.1	840.0	839.9	839.8	839.4
G4.0	840.4	840.5	839.6	839.4	839.3	839.1	838.9	838.4
G5.0	839.8	839.9	838.7	838.6	838.4	838.1	837.8	837.1
G6.0	838.8	839.2	837.8	837.6	837.3	837.0	836.2	835.6
G7.0	837.8	838.3	836.7	836.5	836.2	835.6	834.7	834.0
G8.0	836.6	837.3	835.5	835.3	834.8	834.1	833.0	832.0
G9.0	835.3	835.8	834.1	833.8	833.3	832.4	831.0	829.4
G10.0	833.8	834.4	832.6	831.9	831.2	830.1	828.9	826.9
G11.0	832.1	832.8	830.6	830.1	829.3	828.1	826.6	824.3
G12.0	830.3	831.1	828.8	828.3	827.3	825.8	823.5	821.5
G13.0	828.0	829.4	826.8	826.3	825.1	823.4	820.7	818.4
G14.0	825.8	827.4	824.7	824.1	822.8	820.7	817.7	815.1
G15.0	823.6	824.9	822.5	821.8	820.2	818.0	814.6	811.5
G16.0	821.1	822.6	820.1	818.9	817.6	815.1	811.2	807.0
G17.0	818.5	820.3	817.6	816.3	814.3	811.4	807.7	803.1
G18.0	815.8	817.8	814.5	813.6	811.4	808.1	804.0	798.9
G19.0	812.9	815.1	811.7	810.8	808.3	804.6	799.3	794.5
G20.0	809.4	812.4	808.8	807.8	805.1	801.0	795.2	789.9
G21.0	806.2	809.4	805.8	804.7	801.8	797.3	791.0	785.1
G22.0	802.9	805.8	802.8	801.6	798.3	793.4	786.6	780.2
G23.0	799.5	802.6	799.5	797.6	794.0	788.6	782.0	774.0
G24.0	795.9	799.4	795.4	794.0	790.2	784.4	777.2	768.5
G25.0	792.2	795.9	791.9	790.4	786.3	780.0	772.3	762.9
G26.0	788.4	792.3	788.3	786.7	782.3	775.5	766.2	757.1
G27.0	783.6	788.7	784.6	782.9	778.1	770.9	760.9	751.2
G28.0	779.5	784.9	780.7	778.9	773.8	766.1	755.5	745.1
G29.0	775.3	780.2	776.7	774.0	769.4	761.2	749.9	737.5
G30.0	770.9	776.1	772.5	769.7	764.0	755.2	744.2	730.9
G31.0	766.4	771.9	767.5	765.5	759.3	750.0	738.4	724.3
G32.0	761.8	767.6	763.2	761.0	754.5	744.8	731.2	717.5
G33.0	756.1	763.3	758.7	756.4	749.6	739.3	725.0	710.5
G34.0	751.2	758.7	754.1	751.7	744.5	733.7	718.6	703.3
G35.0	746.2	753.1	749.4	746.8	739.3	728.0	712.2	695.9
G36.0	741.1	748.3	744.6	741.0	733.0	721.0	705.7	687.0
G37.0	735.8	743.4	738.8	735.9	727.6	715.1	699.0	679.4
G38.0	730.5	738.4	733.7	730.8	722.1	709.1	690.9	671.7
G39.0	725.0	733.2	728.5	725.4	716.5	702.8	683.8	663.6

Test Type : Type C      Test Distance : 1.325 m

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Test Device : Lisun LSG-1890B

Temperature : 25.0°C

Humidity : 65.0%

Test Lab : Lisun Instruments Limited

Test By : JACK

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C160.0	C170.0	C180.0	C190.0	C200.0	C210.0	C220.0	C230.0
G40.0	718.3	727.9	723.2	720.0	710.7	696.5	676.6	655.5
G41.0	712.5	722.6	717.8	714.6	704.8	690.1	669.5	647.4
G42.0	706.7	716.0	712.5	707.9	699.0	683.7	662.3	637.5
G43.0	700.8	710.5	705.8	702.2	691.7	675.7	654.9	629.1
G44.0	694.8	704.8	700.2	696.5	685.6	669.0	647.4	620.5
G45.0	688.8	699.0	694.4	690.6	679.3	662.1	639.7	611.8
G46.0	681.3	693.2	688.6	684.6	673.0	655.3	630.5	603.1
G47.0	675.0	687.2	682.7	678.6	666.6	648.4	622.7	594.3
G48.0	668.6	679.9	676.6	671.1	660.1	641.3	614.8	583.5
G49.0	662.1	673.7	670.4	664.9	652.1	632.6	606.8	574.5
G50.0	655.4	667.3	664.1	658.4	645.4	625.3	598.7	565.3
G51.0	648.7	660.9	656.4	652.0	638.6	618.0	590.6	556.1
G52.0	641.9	654.5	650.1	645.5	631.8	610.7	580.8	546.9
G53.0	633.7	648.0	643.5	638.8	624.9	603.2	572.5	537.6
G54.0	626.8	641.4	636.8	632.1	617.8	595.5	564.1	528.1
G55.0	619.8	633.3	630.1	624.0	610.7	587.9	555.7	516.9
G56.0	612.7	626.5	623.4	617.1	602.2	578.7	547.2	507.4
G57.0	605.5	619.6	615.2	610.2	595.0	570.9	538.8	498.0
G58.0	598.3	612.7	608.2	603.1	587.7	563.1	528.6	488.5
G59.0	589.6	605.8	601.2	596.0	580.3	555.2	519.9	478.9
G60.0	582.2	598.6	594.2	588.9	572.9	547.4	511.3	469.4
G61.0	574.7	591.4	587.1	580.3	565.4	539.5	502.8	458.0
G62.0	567.2	582.7	579.9	573.0	556.4	530.0	494.1	448.5
G63.0	559.8	575.5	571.1	565.7	548.9	521.9	485.5	438.9
G64.0	552.3	568.2	563.8	558.2	541.2	513.8	476.7	429.2
G65.0	544.6	560.8	556.4	550.8	533.5	505.7	466.3	419.7
G66.0	535.5	553.3	549.0	543.3	525.8	497.7	457.7	410.3
G67.0	527.8	545.9	541.6	535.8	518.2	489.7	449.0	400.9
G68.0	520.2	536.9	534.1	526.7	510.4	481.5	440.4	389.6
G69.0	512.4	529.3	526.5	519.1	501.0	471.7	431.7	380.2
G70.0	504.6	521.7	517.5	511.5	493.3	463.7	423.1	370.9
G71.0	496.8	514.0	509.9	503.9	485.5	455.6	414.6	361.8
G72.0	487.5	506.4	502.4	496.3	477.8	447.6	404.5	352.8
G73.0	479.8	498.8	494.7	488.6	469.9	439.5	396.0	343.7
G74.0	472.0	489.6	486.9	480.8	462.1	431.4	387.5	334.7
G75.0	464.2	481.9	479.3	471.6	454.3	423.4	379.3	324.2
G76.0	456.3	474.2	470.2	464.0	445.1	413.9	371.1	315.6
G77.0	448.5	466.5	462.6	456.4	437.3	406.0	362.9	307.0
G78.0	439.3	458.9	454.9	448.6	429.5	398.0	353.1	298.6
G79.0	431.5	451.2	447.1	440.8	421.7	390.1	345.0	290.2

Test Type : Type C      Test Distance : 1.325 m

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Test Device : Lisun LSG-1890B

Temperature : 25.0°C

Humidity : 65.0%

Test Lab : Lisun Instruments Limited

Test By : JACK

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C160.0	C170.0	C180.0	C190.0	C200.0	C210.0	C220.0	C230.0
G80.0	423.7	443.4	439.4	433.2	414.0	382.3	337.1	282.1
G81.0	416.0	434.2	431.9	425.6	406.4	374.6	329.4	274.2
G82.0	408.3	426.6	424.3	416.5	397.3	365.5	321.7	264.9
G83.0	400.8	419.1	415.1	408.9	389.7	357.8	314.1	257.3
G84.0	393.2	411.4	407.6	401.2	382.1	350.2	306.5	249.8
G85.0	385.5	403.8	400.1	393.8	374.6	342.8	297.7	242.6
G86.0	376.6	396.3	392.7	386.5	367.3	335.5	290.5	235.6
G87.0	369.2	388.9	385.3	379.1	359.9	328.3	283.4	228.7
G88.0	361.9	380.1	377.9	370.2	351.2	321.0	276.3	220.5
G89.0	354.6	372.8	370.5	362.8	343.9	312.4	269.3	213.9
G90.0	347.3	365.5	361.9	355.6	336.8	305.4	262.5	207.5
G91.0	340.1	358.2	354.9	348.7	329.9	298.6	254.6	201.4
G92.0	331.8	351.2	347.5	341.3	322.6	291.4	247.7	195.2
G93.0	324.5	342.4	339.6	333.4	314.8	283.8	240.3	189.0
G94.0	316.7	334.5	331.5	325.4	306.9	276.0	232.9	182.9
G95.0	308.7	326.5	323.5	315.9	299.1	268.4	225.6	176.0
G96.0	300.9	318.6	314.2	308.1	289.9	259.4	217.9	169.7
G97.0	293.2	310.8	306.2	300.1	282.1	249.7	201.2	164.2
G98.0	283.8	302.9	296.1	289.7	268.7	233.1	187.8	159.2
G99.0	269.1	293.5	277.1	270.9	250.5	216.8	181.5	154.4
G100.0	250.4	274.9	258.1	252.5	234.0	207.3	177.0	149.8
G101.0	233.7	252.1	242.7	236.9	224.2	201.8	172.7	144.6
G102.0	225.2	238.1	235.0	231.3	219.0	196.1	168.5	140.6
G103.0	220.1	232.3	229.8	226.1	214.0	191.8	164.6	136.5
G104.0	215.1	227.1	224.7	221.0	209.0	187.9	160.3	132.0
G105.0	209.2	222.0	219.7	216.1	204.2	183.9	156.3	127.4
G106.0	204.4	217.0	214.8	211.3	199.5	179.5	152.3	122.8
G107.0	199.7	211.2	209.9	206.4	194.8	175.2	148.1	117.6
G108.0	195.1	206.4	205.1	200.7	189.4	169.9	143.7	113.6
G109.0	190.6	201.7	199.5	196.2	184.9	165.4	139.5	109.6
G110.0	186.2	197.2	195.0	191.7	180.3	161.0	135.7	105.9
G111.0	181.6	192.6	190.3	186.9	175.5	156.5	132.8	102.2
G112.0	175.9	187.9	185.3	182.1	170.7	152.4	128.8	98.5
G113.0	171.3	182.1	180.3	177.2	166.0	149.8	124.4	94.3
G114.0	166.6	177.2	175.4	171.4	161.4	146.2	120.0	90.9
G115.0	162.6	172.4	170.1	167.7	158.7	141.1	115.8	87.7
G116.0	160.1	168.3	167.8	165.4	154.2	136.8	110.7	84.5
G117.0	156.2	166.1	164.5	160.4	148.0	132.5	106.4	81.4
G118.0	148.4	162.2	157.7	151.3	139.8	127.9	102.4	78.3
G119.0	135.9	154.6	149.1	131.6	132.0	123.4	98.6	75.4

 Test Type : Type C      Test Distance : 1.325 m  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

 C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0  
 Temperature : 25.0°C      Humidity : 65.0%  
 Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C160.0	C170.0	C180.0	C190.0	C200.0	C210.0	C220.0	C230.0
G120.0	125.5	136.3	136.4	114.7	123.1	118.9	95.1	72.0
G121.0	116.5	125.2	127.6	106.1	116.2	113.2	91.8	69.3
G122.0	110.2	113.6	123.6	104.8	109.7	107.9	87.7	66.6
G123.0	104.6	110.9	119.8	103.2	103.6	101.7	84.2	64.0
G124.0	99.5	108.5	115.9	101.4	97.7	95.2	80.6	61.4
G125.0	94.1	105.6	112.2	99.4	92.4	88.6	77.2	59.0
G126.0	90.3	101.5	108.3	96.4	86.8	83.5	73.8	56.1
G127.0	86.4	98.0	104.1	92.6	82.4	79.1	70.3	53.7
G128.0	83.4	94.1	98.0	87.3	79.0	75.4	66.9	51.5
G129.0	78.3	89.9	92.8	81.8	75.7	72.0	63.3	49.4
G130.0	75.8	85.4	85.3	77.8	72.0	68.6	59.4	47.2
G131.0	74.4	81.0	82.8	75.7	69.6	64.8	56.5	44.9
G132.0	72.1	78.6	82.3	74.4	67.0	61.3	54.1	42.6
G133.0	69.2	76.2	79.0	71.6	64.5	58.0	51.8	39.8
G134.0	65.9	73.6	75.8	69.2	61.8	55.3	49.5	37.5
G135.0	63.0	71.0	72.0	66.7	60.0	53.3	47.4	35.4
G136.0	60.7	68.4	68.9	64.3	58.3	51.4	44.3	33.2
G137.0	58.5	65.8	66.0	62.1	56.7	49.6	41.6	31.2
G138.0	57.4	63.3	63.3	60.3	54.6	47.9	39.1	29.2
G139.0	55.2	61.1	61.1	57.9	52.6	45.9	36.8	27.4
G140.0	53.0	58.4	58.1	54.9	50.1	43.1	34.7	25.4
G141.0	51.0	55.8	54.6	52.4	48.0	40.9	32.8	23.8
G142.0	49.0	53.3	51.8	50.0	45.6	38.7	30.5	22.4
G143.0	46.2	51.0	49.0	47.4	43.1	36.7	28.8	21.0
G144.0	43.8	47.9	46.4	44.8	40.8	34.7	27.3	19.6
G145.0	41.5	45.4	43.4	42.0	38.2	32.5	25.8	18.5
G146.0	38.9	42.5	41.1	39.6	36.2	30.7	24.1	17.5
G147.0	35.9	40.3	38.3	37.0	33.8	28.7	22.6	16.3
G148.0	33.4	37.3	36.2	34.9	31.5	27.1	21.3	15.2
G149.0	31.4	34.2	33.7	32.6	29.7	25.3	19.9	14.4
G150.0	29.4	32.3	31.5	30.3	27.7	23.6	18.6	13.5
G151.0	27.4	30.2	29.3	28.2	25.8	22.0	17.4	12.5
G152.0	25.6	28.2	27.2	26.2	24.0	20.5	16.2	11.7
G153.0	23.9	26.0	25.3	24.4	22.3	19.0	15.1	10.9
G154.0	22.2	24.2	23.5	22.6	20.7	17.7	14.0	10.1
G155.0	20.6	22.5	21.5	21.0	19.0	16.4	13.0	9.3
G156.0	18.9	20.6	19.9	19.2	17.6	15.0	11.9	8.6
G157.0	17.4	19.1	18.2	17.7	16.1	13.9	11.0	7.8
G158.0	16.1	17.5	16.8	16.1	14.7	12.6	10.0	7.0
G159.0	14.7	16.0	15.3	14.7	13.4	11.5	9.1	6.2

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C160.0	C170.0	C180.0	C190.0	C200.0	C210.0	C220.0	C230.0
G160.0	13.4	14.5	13.9	13.3	12.1	10.4	8.1	5.5
G161.0	12.0	13.2	12.4	12.0	11.0	9.4	7.2	4.9
G162.0	10.9	11.8	11.1	10.7	9.9	8.3	6.1	4.2
G163.0	9.7	10.5	9.8	9.6	8.8	7.5	5.3	3.5
G164.0	8.6	9.3	8.6	8.5	7.7	6.3	4.6	2.9
G165.0	7.6	8.2	7.6	7.4	6.8	5.3	3.7	2.7
G166.0	6.7	7.2	6.6	6.4	5.8	4.4	3.1	2.7
G167.0	5.7	6.2	5.6	5.4	4.7	3.4	2.6	2.7
G168.0	4.7	5.2	4.5	4.4	3.6	2.7	2.6	2.7
G169.0	3.6	4.1	3.6	3.4	2.7	2.6	2.6	2.7
G170.0	2.9	3.1	2.7	2.6	2.6	2.6	2.6	2.7
G171.0	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.7
G172.0	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.7
G173.0	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.7
G174.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7
G175.0	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7
G176.0	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7
G177.0	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7
G178.0	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7
G179.0	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7
G180.0	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C240.0	C250.0	C260.0	C270.0	C280.0	C290.0	C300.0	C310.0
G0.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0
G1.0	840.7	840.7	840.7	840.6	840.6	840.6	840.7	840.6
G2.0	840.1	840.1	840.0	839.9	839.9	839.9	839.9	840.0
G3.0	839.3	839.1	838.9	838.9	838.9	839.0	839.0	839.1
G4.0	838.2	837.9	837.6	837.6	837.7	837.8	837.8	838.1
G5.0	836.8	836.5	836.0	836.0	835.7	836.2	836.3	836.7
G6.0	835.2	834.7	834.1	834.1	833.9	834.5	834.6	835.1
G7.0	833.0	832.4	832.0	831.5	831.8	832.0	832.7	833.4
G8.0	830.8	830.0	829.6	829.1	829.3	829.7	830.5	830.9
G9.0	828.4	827.5	827.0	826.3	826.6	827.0	827.5	828.7
G10.0	825.7	824.6	823.9	823.2	823.6	824.1	824.8	826.1
G11.0	822.8	821.5	820.0	819.9	820.3	821.0	821.8	823.5
G12.0	819.7	818.1	816.5	816.3	816.0	817.6	818.6	820.5
G13.0	816.3	814.5	812.6	812.4	812.2	813.1	815.2	817.4
G14.0	811.9	809.7	808.5	807.3	808.0	809.1	811.5	813.3
G15.0	807.9	805.4	804.0	802.8	803.4	804.8	807.5	809.7
G16.0	803.8	801.0	799.4	798.0	798.8	800.3	802.5	805.9
G17.0	799.4	796.3	794.4	792.9	793.8	795.5	798.1	801.9
G18.0	794.8	791.3	788.1	787.6	787.5	790.5	793.4	797.7
G19.0	788.9	786.0	782.5	780.8	781.8	784.1	788.4	793.2
G20.0	783.8	779.2	776.6	776.0	775.9	778.4	783.2	788.5
G21.0	778.4	773.5	770.6	768.6	769.8	772.6	777.9	782.7
G22.0	772.9	767.4	764.2	762.1	763.4	766.5	771.2	777.7
G23.0	767.1	761.1	757.6	755.3	756.8	760.2	765.4	772.5
G24.0	761.0	754.5	749.3	748.2	749.8	753.5	759.3	767.0
G25.0	754.7	747.6	742.0	740.8	742.5	746.6	752.9	761.3
G26.0	747.0	740.6	734.5	733.2	733.6	738.2	746.4	755.5
G27.0	740.3	731.9	726.9	723.8	725.9	730.8	739.8	748.4
G28.0	733.4	724.3	718.9	715.6	717.9	723.2	732.9	742.2
G29.0	726.2	716.4	710.6	707.1	709.5	715.3	724.3	735.8
G30.0	718.8	708.4	700.3	698.4	701.0	707.2	716.9	729.2
G31.0	711.4	700.2	691.6	689.5	692.2	699.0	709.4	722.6
G32.0	702.1	691.8	682.6	680.3	681.4	688.8	701.6	715.7
G33.0	694.2	681.3	673.3	668.9	672.1	680.1	693.7	708.7
G34.0	686.0	672.2	663.6	659.0	662.4	671.0	685.5	700.0
G35.0	677.6	663.0	653.8	648.9	652.6	661.8	677.2	692.5
G36.0	669.3	653.7	641.9	638.8	642.7	652.4	667.1	685.1
G37.0	660.7	644.2	631.7	628.3	632.5	642.9	658.5	677.5
G38.0	651.9	634.5	621.1	617.6	619.9	631.2	649.7	669.7
G39.0	641.0	622.3	610.3	604.2	609.0	621.1	640.6	661.7

 Test Type : Type C  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

Test Distance : 1.325 m

 C Plane (°): 0.0-360.0:10.0  
 Temperature : 25.0°C

 γ (°): 0.0-180.0:1.0  
 Humidity : 65.0%

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C240.0	C250.0	C260.0	C270.0	C280.0	C290.0	C300.0	C310.0
G40.0	631.7	612.0	599.2	592.9	597.9	610.8	631.3	653.5
G41.0	622.4	601.7	588.1	581.5	586.8	600.5	622.1	643.7
G42.0	613.1	591.3	576.9	569.9	575.6	590.1	610.8	635.5
G43.0	603.5	580.6	562.9	558.0	564.1	579.3	601.2	627.0
G44.0	593.7	569.7	551.0	545.7	549.8	568.4	591.5	618.4
G45.0	583.7	558.4	539.0	533.3	537.7	557.2	581.5	609.6
G46.0	571.8	545.1	526.9	518.4	525.7	543.9	571.7	601.0
G47.0	561.8	533.9	514.7	505.8	513.4	532.6	561.7	590.4
G48.0	551.6	522.4	502.2	492.9	500.9	521.1	549.4	581.4
G49.0	541.2	510.6	486.8	479.7	488.1	509.4	539.2	572.4
G50.0	530.8	498.7	473.9	466.3	475.2	497.6	528.7	563.2
G51.0	520.4	487.0	460.9	453.1	459.8	485.9	518.3	554.1
G52.0	507.8	472.7	447.9	436.9	446.7	471.7	507.9	544.9
G53.0	497.1	460.7	434.7	423.2	433.5	459.7	497.2	533.7
G54.0	486.4	448.4	421.2	409.3	420.0	447.5	486.5	524.3
G55.0	475.7	436.2	407.7	395.4	406.7	435.4	473.8	514.9
G56.0	465.0	424.0	391.6	381.4	393.3	423.3	463.1	505.5
G57.0	454.2	411.8	378.0	367.4	377.1	411.2	452.4	496.1
G58.0	443.4	399.5	364.4	350.3	363.5	396.5	441.7	486.5
G59.0	430.3	384.6	350.6	335.9	349.8	384.2	430.8	476.9
G60.0	419.5	372.4	337.0	321.7	336.3	372.1	420.1	465.5
G61.0	408.8	360.2	323.4	307.5	322.8	360.0	407.4	456.0
G62.0	398.1	348.0	307.1	293.2	309.3	347.9	396.7	446.5
G63.0	387.4	335.9	293.5	278.9	295.8	335.8	386.0	436.9
G64.0	376.6	323.6	279.7	264.5	279.4	323.7	375.2	427.3
G65.0	365.9	311.5	266.3	247.4	266.0	311.7	364.6	417.8
G66.0	353.4	297.4	253.0	233.4	252.9	297.7	354.2	408.4
G67.0	343.0	285.7	239.8	219.4	239.7	286.0	343.9	397.2
G68.0	332.6	274.0	226.7	205.4	226.7	274.5	331.4	387.8
G69.0	322.2	262.4	211.0	191.5	213.7	263.0	321.1	378.5
G70.0	312.1	251.2	198.4	177.9	201.1	251.8	311.2	369.3
G71.0	302.2	240.3	186.0	162.1	186.4	240.9	301.3	360.2
G72.0	290.4	227.3	173.9	149.0	174.4	228.1	291.6	351.3
G73.0	280.6	216.6	161.9	136.0	162.4	217.5	281.8	340.4
G74.0	270.9	206.0	150.0	123.2	150.7	207.0	272.2	331.5
G75.0	261.6	195.9	138.8	111.0	139.7	197.0	261.1	322.9
G76.0	252.4	186.1	125.8	99.1	128.9	187.3	252.0	314.3
G77.0	243.4	176.5	115.4	87.6	116.5	177.7	243.1	305.8
G78.0	232.8	165.2	105.2	74.2	106.5	166.6	234.3	297.4
G79.0	224.1	156.1	95.4	63.4	96.9	157.6	225.7	289.1

Test Type : Type C      Test Distance : 1.325 m  
Test Device : Lisun LSG-1890B  
Test Lab : Lisun Instruments Limited  
Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0  
Temperature : 25.0°C      Humidity : 65.0%  
Review By :



Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C240.0	C250.0	C260.0	C270.0	C280.0	C290.0	C300.0	C310.0
G80.0	215.8	147.4	86.3	53.4	88.0	149.0	217.3	279.4
G81.0	207.7	139.2	77.8	44.1	79.6	140.9	207.8	271.6
G82.0	199.9	131.3	68.1	35.4	71.7	133.0	200.0	263.9
G83.0	192.3	123.6	60.6	27.3	64.1	125.4	192.5	256.3
G84.0	184.9	116.3	53.6	20.1	55.8	118.2	185.1	248.9
G85.0	176.5	108.3	47.3	14.0	49.5	110.2	178.2	241.7
G86.0	169.8	102.1	41.6	8.1	43.9	104.0	171.5	233.4
G87.0	163.3	96.2	36.6	4.6	38.8	98.2	165.1	226.6
G88.0	157.0	90.7	32.2	2.5	34.5	92.7	157.6	219.8
G89.0	150.9	85.4	27.7	1.9	30.6	87.4	151.5	213.3
G90.0	145.1	80.6	24.6	1.9	27.4	82.7	145.8	206.9
G91.0	138.5	76.2	22.0	1.9	24.3	77.5	140.4	200.8
G92.0	133.1	70.7	18.8	1.9	21.5	73.1	135.1	193.3
G93.0	127.7	66.2	15.3	1.9	19.1	69.2	129.9	186.8
G94.0	122.6	62.0	10.9	1.9	17.0	65.5	125.1	180.3
G95.0	117.8	58.2	8.0	1.9	14.9	62.2	119.7	174.2
G96.0	113.3	54.7	5.9	1.9	12.2	59.2	115.5	166.9
G97.0	109.0	50.4	4.8	1.9	10.0	56.4	111.5	157.1
G98.0	104.1	44.6	4.3	1.9	8.7	53.2	107.7	150.0
G99.0	100.2	38.9	4.0	2.0	7.8	50.5	104.1	145.5
G100.0	96.2	35.4	3.9	2.0	7.1	47.9	100.7	140.6
G101.0	91.3	32.3	3.8	2.0	6.7	44.9	96.8	136.6
G102.0	86.0	30.3	3.9	2.0	6.5	41.7	93.2	132.7
G103.0	81.2	28.9	4.1	2.0	6.5	38.9	89.7	129.1
G104.0	77.5	27.6	4.3	2.1	6.4	36.8	86.2	125.5
G105.0	73.6	26.4	4.5	2.1	6.4	34.8	82.9	121.7
G106.0	70.7	25.6	4.8	2.1	6.3	33.2	79.6	117.1
G107.0	67.9	25.0	5.0	2.2	6.3	31.7	75.6	113.4
G108.0	65.5	24.6	5.1	2.2	6.2	30.4	72.4	109.6
G109.0	63.1	24.0	5.2	2.2	6.2	29.2	69.4	106.3
G110.0	60.9	23.3	5.2	2.2	6.1	28.1	66.7	103.4
G111.0	58.3	22.5	5.2	2.3	6.0	26.9	64.1	99.7
G112.0	56.2	21.9	5.2	2.3	5.9	26.0	61.5	95.3
G113.0	54.3	21.2	5.2	2.3	5.8	25.0	58.6	91.6
G114.0	52.4	20.6	5.2	2.3	5.7	24.2	56.3	88.1
G115.0	50.8	20.1	5.0	2.4	5.6	23.4	54.1	84.8
G116.0	49.2	19.6	4.9	2.4	5.5	22.7	52.0	81.7
G117.0	47.3	19.0	4.8	2.4	5.4	21.8	49.9	78.6
G118.0	45.7	18.5	4.7	2.4	5.3	21.1	47.9	75.0
G119.0	44.1	18.0	4.7	2.5	5.2	20.5	46.0	72.1

Test Type : Type C      Test Distance : 1.325 m

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Test Device : Lisun LSG-1890B

Temperature : 25.0°C

Humidity : 65.0%

Test Lab : Lisun Instruments Limited

Test By : JACK

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C240.0	C250.0	C260.0	C270.0	C280.0	C290.0	C300.0	C310.0
G120.0	42.4	17.6	4.7	2.5	5.1	19.7	43.8	69.2
G121.0	40.8	17.2	4.6	2.5	5.0	19.1	42.0	66.5
G122.0	39.3	16.7	4.5	2.5	4.8	18.4	40.3	63.8
G123.0	37.4	16.1	4.4	2.5	4.7	17.6	38.6	61.2
G124.0	36.0	15.7	4.3	2.6	4.5	17.0	37.1	58.7
G125.0	34.6	15.2	4.1	2.6	4.4	16.3	35.6	55.8
G126.0	33.2	14.7	4.0	2.6	4.2	15.7	33.8	53.4
G127.0	31.9	14.2	3.8	2.6	4.0	15.2	32.4	50.9
G128.0	30.6	13.7	3.6	2.7	3.7	14.6	31.1	48.5
G129.0	29.3	13.2	3.4	2.7	3.4	14.0	29.8	46.1
G130.0	27.9	12.6	3.3	2.7	3.1	13.3	28.5	44.1
G131.0	26.7	12.1	3.1	2.7	2.9	12.8	27.2	42.0
G132.0	25.5	11.7	2.9	2.7	2.8	12.2	26.0	40.3
G133.0	24.3	11.2	2.8	2.8	2.7	11.7	24.4	38.6
G134.0	23.1	10.7	2.8	2.8	2.7	11.2	23.2	36.7
G135.0	21.9	10.2	2.8	2.8	2.7	10.6	21.9	34.6
G136.0	20.5	9.8	2.8	2.8	2.8	10.0	20.7	32.5
G137.0	19.3	9.2	2.8	2.8	2.8	9.4	19.5	30.6
G138.0	18.2	8.7	2.8	2.8	2.8	8.9	18.4	28.4
G139.0	17.1	8.2	2.8	2.9	2.8	8.4	17.1	26.7
G140.0	16.1	7.8	2.9	2.9	2.8	7.9	16.1	25.1
G141.0	15.1	7.3	2.9	2.9	2.8	7.4	15.1	23.6
G142.0	14.0	6.8	2.9	2.9	2.8	6.9	14.2	22.2
G143.0	13.1	6.4	2.9	2.9	2.8	6.4	13.3	20.7
G144.0	12.3	6.0	2.9	2.9	2.9	6.0	12.4	19.5
G145.0	11.6	5.7	2.9	2.9	2.9	5.6	11.7	18.4
G146.0	10.8	5.3	2.9	2.9	2.9	5.2	11.0	17.2
G147.0	10.2	5.0	2.9	2.9	2.9	4.6	10.2	16.2
G148.0	9.5	4.5	2.9	2.9	2.9	4.2	9.5	15.1
G149.0	8.9	4.1	2.9	2.9	2.9	3.6	8.9	14.1
G150.0	8.3	3.7	2.9	2.9	2.9	3.2	8.2	13.3
G151.0	7.8	3.3	2.9	2.9	2.9	2.9	7.6	12.4
G152.0	7.2	3.0	2.9	2.9	2.9	2.8	7.0	11.5
G153.0	6.7	2.9	2.9	2.9	2.9	2.8	6.4	10.5
G154.0	6.2	2.9	2.9	2.9	2.9	2.8	5.9	9.4
G155.0	5.6	2.9	2.9	2.9	2.9	2.8	5.3	8.7
G156.0	5.2	2.9	2.9	2.9	2.9	2.8	4.7	7.7
G157.0	4.6	2.9	2.9	2.9	2.9	2.8	4.0	7.1
G158.0	4.0	2.9	2.9	2.9	2.9	2.8	3.4	6.3
G159.0	3.5	2.9	2.9	2.9	2.9	2.8	2.9	5.7

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C240.0	C250.0	C260.0	C270.0	C280.0	C290.0	C300.0	C310.0
G160.0	2.9	2.8	2.9	2.9	2.9	2.8	2.8	5.1
G161.0	2.8	2.8	2.9	2.9	2.9	2.8	2.8	4.4
G162.0	2.8	2.8	2.8	2.9	2.9	2.8	2.8	3.5
G163.0	2.8	2.8	2.8	2.9	2.9	2.8	2.7	2.9
G164.0	2.8	2.8	2.8	2.9	2.9	2.8	2.7	2.6
G165.0	2.8	2.8	2.8	2.9	2.9	2.8	2.7	2.6
G166.0	2.8	2.8	2.8	2.9	2.9	2.8	2.7	2.7
G167.0	2.8	2.8	2.8	2.9	2.9	2.8	2.7	2.7
G168.0	2.8	2.8	2.8	2.9	2.9	2.8	2.7	2.7
G169.0	2.8	2.8	2.8	2.9	2.8	2.8	2.7	2.7
G170.0	2.7	2.8	2.8	2.9	2.8	2.8	2.7	2.7
G171.0	2.7	2.8	2.8	2.9	2.9	2.8	2.7	2.7
G172.0	2.7	2.8	2.8	2.8	2.9	2.8	2.7	2.7
G173.0	2.7	2.8	2.8	2.9	2.9	2.8	2.8	2.7
G174.0	2.7	2.8	2.8	2.9	2.9	2.8	2.8	2.7
G175.0	2.8	2.8	2.8	2.9	2.9	2.8	2.8	2.7
G176.0	2.8	2.8	2.8	2.9	2.9	2.8	2.8	2.7
G177.0	2.8	2.8	2.8	2.9	2.9	2.8	2.8	2.7
G178.0	2.8	2.8	2.8	2.9	2.9	2.8	2.8	2.7
G179.0	2.8	2.8	2.8	2.9	2.9	2.8	2.8	2.7
G180.0	2.8	2.8	2.8	2.9	2.9	2.8	2.8	2.7

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

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Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C320.0	C330.0	C340.0	C350.0			
G0.0	841.0	841.0	841.0	841.0			
G1.0	840.7	840.8	840.8	840.8			
G2.0	840.1	840.1	840.2	840.3			
G3.0	839.3	839.4	839.5	839.7			
G4.0	838.3	838.5	838.7	838.9			
G5.0	837.1	837.4	837.7	837.9			
G6.0	835.7	836.1	836.6	836.6			
G7.0	834.1	834.6	835.3	835.4			
G8.0	831.9	832.7	833.5	834.0			
G9.0	829.9	830.8	831.8	832.4			
G10.0	827.6	828.8	830.0	830.7			
G11.0	825.2	826.6	828.1	828.9			
G12.0	822.6	824.3	825.9	826.9			
G13.0	819.8	821.7	823.7	824.4			
G14.0	816.1	819.0	821.3	822.1			
G15.0	812.9	816.1	818.2	819.6			
G16.0	809.5	812.5	815.5	817.1			
G17.0	805.9	809.3	812.7	814.5			
G18.0	802.1	806.0	809.7	811.7			
G19.0	798.2	802.5	806.6	808.2			
G20.0	794.0	798.8	803.3	805.2			
G21.0	789.8	795.0	799.9	802.0			
G22.0	784.5	790.3	795.7	798.7			
G23.0	779.8	786.2	792.0	795.3			
G24.0	774.9	781.9	788.1	791.7			
G25.0	769.9	777.4	784.2	788.0			
G26.0	764.8	772.9	780.2	783.5			
G27.0	759.6	768.2	775.2	779.6			
G28.0	753.0	762.5	770.8	775.5			
G29.0	747.4	757.4	766.3	771.3			
G30.0	741.6	752.3	761.7	767.1			
G31.0	735.8	747.1	757.0	762.7			
G32.0	729.7	741.8	752.2	757.2			
G33.0	723.5	736.4	747.2	752.6			
G34.0	715.9	730.7	741.1	747.8			
G35.0	709.4	723.8	735.8	742.8			
G36.0	702.9	717.9	730.6	737.8			
G37.0	696.2	712.0	725.2	732.8			
G38.0	689.3	705.9	719.6	727.6			
G39.0	682.2	699.6	713.9	721.1			

 Test Type : Type C      Test Distance : 1.325 m  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

 C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0  
 Temperature : 25.0°C      Humidity : 65.0%  
 Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C320.0	C330.0	C340.0	C350.0			
G40.0	675.1	693.3	708.1	715.6			
G41.0	666.5	686.9	701.1	710.1			
G42.0	659.3	679.1	695.1	704.5			
G43.0	651.8	672.5	689.1	698.8			
G44.0	644.3	665.8	682.9	692.9			
G45.0	636.6	658.8	676.6	686.9			
G46.0	628.9	651.9	670.3	679.6			
G47.0	619.6	645.0	662.6	673.6			
G48.0	611.7	636.5	656.1	667.3			
G49.0	603.6	629.3	649.4	661.0			
G50.0	595.5	621.9	642.6	654.5			
G51.0	587.3	614.5	635.8	648.0			
G52.0	579.2	607.2	629.0	640.1			
G53.0	570.9	599.7	620.6	633.5			
G54.0	560.8	592.0	613.5	626.7			
G55.0	552.4	582.8	606.4	619.8			
G56.0	544.0	575.1	599.2	612.9			
G57.0	535.6	567.4	592.0	606.0			
G58.0	527.0	559.6	584.7	597.5			
G59.0	518.4	551.7	577.2	590.3			
G60.0	508.2	543.8	568.3	583.1			
G61.0	499.6	534.3	560.8	575.8			
G62.0	491.0	526.4	553.3	568.5			
G63.0	482.3	518.3	545.7	561.2			
G64.0	473.6	510.3	538.0	553.7			
G65.0	464.9	502.2	530.2	546.1			
G66.0	456.3	494.1	522.6	537.2			
G67.0	446.0	486.1	513.3	529.6			
G68.0	437.4	476.3	505.5	522.0			
G69.0	428.7	468.2	497.7	514.4			
G70.0	420.2	460.1	489.9	506.7			
G71.0	411.7	452.1	482.1	499.2			
G72.0	403.3	444.0	474.4	490.0			
G73.0	393.1	435.9	465.0	482.3			
G74.0	384.7	427.8	457.0	474.5			
G75.0	376.5	418.3	449.3	466.9			
G76.0	368.3	410.4	441.6	459.2			
G77.0	360.2	402.5	433.8	451.6			
G78.0	352.1	394.6	426.1	442.4			
G79.0	344.0	386.7	418.3	434.6			

Test Type : Type C      Test Distance : 1.325 m

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Test Device : Lisun LSG-1890B

Temperature : 25.0°C

Humidity : 65.0%

Test Lab : Lisun Instruments Limited

Test By : JACK

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C320.0	C330.0	C340.0	C350.0			
G80.0	334.6	378.9	409.0	427.0			
G81.0	326.8	369.8	401.5	419.4			
G82.0	319.2	362.2	393.9	411.9			
G83.0	311.6	354.6	386.3	404.3			
G84.0	304.1	347.0	378.7	396.6			
G85.0	296.8	339.7	371.3	387.7			
G86.0	288.3	332.5	362.5	380.4			
G87.0	281.2	323.8	355.2	373.1			
G88.0	274.2	316.7	348.0	365.8			
G89.0	267.3	309.6	340.7	358.5			
G90.0	260.5	302.7	333.7	351.4			
G91.0	254.1	295.9	326.8	343.1			
G92.0	247.3	288.9	319.7	335.8			
G93.0	238.6	281.4	310.6	328.2			
G94.0	231.3	272.4	302.9	320.5			
G95.0	224.1	265.1	295.4	312.8			
G96.0	217.0	257.7	287.9	305.2			
G97.0	208.2	250.1	280.3	297.5			
G98.0	193.4	240.2	272.3	288.0			
G99.0	179.3	224.6	259.7	277.2			
G100.0	170.9	209.7	239.8	260.2			
G101.0	166.4	198.2	224.7	243.4			
G102.0	162.4	192.9	215.7	229.8			
G103.0	158.7	188.1	210.5	223.1			
G104.0	155.4	183.8	205.6	218.0			
G105.0	152.4	179.8	200.9	212.2			
G106.0	147.9	175.7	195.3	207.3			
G107.0	143.7	170.4	190.7	202.5			
G108.0	139.5	166.0	186.0	197.8			
G109.0	135.3	161.5	181.5	193.0			
G110.0	131.3	156.9	176.8	188.4			
G111.0	127.4	152.4	172.1	182.6			
G112.0	123.0	148.0	166.4	177.7			
G113.0	120.6	142.6	161.6	172.7			
G114.0	117.1	138.4	156.8	167.7			
G115.0	113.4	135.1	152.2	162.9			
G116.0	109.5	132.3	147.5	158.2			
G117.0	105.4	128.3	141.8	152.0			
G118.0	100.6	124.1	129.0	146.0			
G119.0	96.6	118.8	118.6	132.1			

Test Type : Type C      Test Distance : 1.325 m

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Test Device : Lisun LSG-1890B

Temperature : 25.0°C

Humidity : 65.0%

Test Lab : Lisun Instruments Limited

Test By : JACK

Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C320.0	C330.0	C340.0	C350.0			
G120.0	92.6	114.1	110.0	121.2			
G121.0	88.3	109.0	104.1	109.8			
G122.0	83.7	103.2	98.8	107.1			
G123.0	78.9	97.0	94.0	103.7			
G124.0	74.6	89.8	89.8	101.1			
G125.0	71.4	81.4	85.3	97.9			
G126.0	68.5	75.0	81.6	94.2			
G127.0	65.2	70.7	78.6	90.1			
G128.0	62.2	67.7	76.6	85.0			
G129.0	59.2	65.7	74.3	81.2			
G130.0	56.3	63.7	69.4	77.1			
G131.0	52.9	61.1	67.1	74.1			
G132.0	49.6	58.0	66.1	72.5			
G133.0	46.9	55.1	63.5	71.1			
G134.0	44.7	52.3	61.0	69.9			
G135.0	42.7	50.0	58.5	67.1			
G136.0	41.0	47.9	56.2	63.8			
G137.0	39.4	46.1	53.7	61.1			
G138.0	37.7	44.4	51.6	58.3			
G139.0	36.0	42.4	49.5	55.6			
G140.0	34.0	40.9	47.4	53.1			
G141.0	32.1	39.3	45.4	50.6			
G142.0	30.4	37.8	43.4	47.5			
G143.0	28.7	35.9	41.1	45.2			
G144.0	26.8	33.6	39.3	42.9			
G145.0	25.4	31.8	37.3	40.8			
G146.0	23.7	29.7	34.9	38.2			
G147.0	22.4	28.1	32.9	35.7			
G148.0	20.9	26.2	30.7	33.7			
G149.0	19.7	24.7	29.0	31.4			
G150.0	18.4	23.1	27.0	29.3			
G151.0	17.1	21.5	25.1	27.2			
G152.0	15.9	20.0	23.4	25.3			
G153.0	14.7	18.6	21.7	23.5			
G154.0	13.7	17.3	20.1	21.8			
G155.0	12.5	15.8	18.4	20.2			
G156.0	11.4	14.6	17.0	18.5			
G157.0	9.8	13.3	15.5	17.0			
G158.0	9.1	12.0	14.2	15.5			
G159.0	8.2	10.4	12.9	14.1			

 Test Type : Type C      Test Distance : 1.325 m  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

 C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0  
 Temperature : 25.0°C      Humidity : 65.0%  
 Review By :

Report No. : 10

Test Time : 2023-11-17 16:57:07

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**Light Distribution Data**

Unit: mW

G\C	C320.0	C330.0	C340.0	C350.0			
G160.0	7.4	9.2	11.5	12.7			
G161.0	6.4	8.3	9.5	11.3			
G162.0	5.8	7.3	8.8	9.4			
G163.0	5.1	6.3	7.8	8.6			
G164.0	4.1	5.6	6.4	7.2			
G165.0	3.2	4.8	5.8	6.0			
G166.0	2.6	3.7	4.8	5.3			
G167.0	2.6	2.8	3.8	4.3			
G168.0	2.6	2.5	2.7	3.1			
G169.0	2.6	2.5	2.5	2.5			
G170.0	2.6	2.5	2.5	2.5			
G171.0	2.6	2.6	2.5	2.5			
G172.0	2.6	2.6	2.5	2.5			
G173.0	2.6	2.6	2.5	2.5			
G174.0	2.6	2.6	2.5	2.5			
G175.0	2.7	2.6	2.6	2.5			
G176.0	2.7	2.6	2.6	2.5			
G177.0	2.7	2.6	2.6	2.5			
G178.0	2.7	2.6	2.6	2.5			
G179.0	2.7	2.6	2.6	2.5			
G180.0	2.7	2.6	2.6	2.5			

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

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Review By :