
弗格斯莱

Client:

LumCAT: OBRP2432LAJUDBK

Luminaire: LED Lamp

Report No:

Ballast type:

Test No:

Voltage(V): 119.990

LampCAT:

Current(A): 0.413

Lamp flux(lm): 2290.8

Power (W): 49.230

Number of Lamps: 1

PF: 0.994

Length(mm): -800

Width(mm): -800

Phm Type: C

Height(mm): 40

Photometric Results

Lumens(lm): 2290.83, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 46.53

Central intensity(cd): 258.388, Maximum intensity(cd): 368.742

Angle of maximum intensity: C=60.0 γ =145.0

Beam Angle(50%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

Field angle(10%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.22 C90_270=1.85

Maximum s/h(1/4): C0_180=1.37 C90_270=1.98

Up flux rate of lamp(%): 51.36%

Down flux rate of lamp(%): 48.64%

Up flux rate of LUM(%): 51.36%

Down flux rate of LUM(%): 48.64%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 29.851%

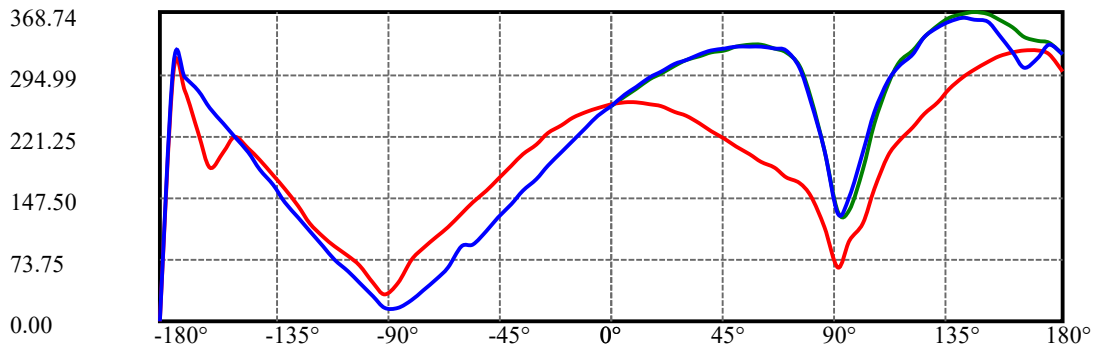
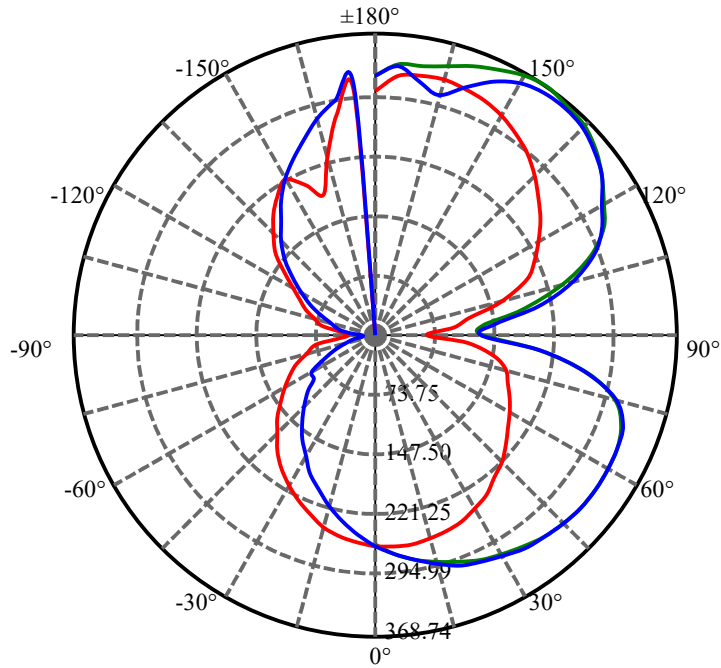
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	258.613	0.000	0	0.00%	0.00%
5.0	257.529	6.170	6.17	0.27%	0.27%
10.0	255.435	18.350	24.521	0.80%	1.07%
15.0	251.959	30.098	54.619	1.31%	2.38%
20.0	247.809	41.188	95.807	1.80%	4.18%
25.0	241.791	51.350	147.157	2.24%	6.42%
30.0	235.024	60.341	207.498	2.63%	9.06%
35.0	227.436	68.100	275.599	2.97%	12.03%
40.0	219.511	74.570	350.168	3.26%	15.29%
45.0	209.903	79.509	429.678	3.47%	18.76%
50.0	200.483	82.925	512.602	3.62%	22.38%
55.0	190.876	85.094	597.696	3.71%	26.09%
60.0	181.754	86.132	683.829	3.76%	29.85%
65.0	171.324	85.834	769.663	3.75%	33.60%
70.0	161.194	84.196	853.859	3.68%	37.27%
75.0	149.755	81.277	935.135	3.55%	40.82%
80.0	129.194	74.639	1009.774	3.26%	44.08%
85.0	95.550	61.068	1070.843	2.67%	46.74%
90.0	63.177	43.461	1114.303	1.90%	48.64%
95.0	78.317	38.742	1153.045	1.69%	50.33%
100.0	105.344	49.905	1202.95	2.18%	52.51%
105.0	134.278	64.116	1267.067	2.80%	55.31%
110.0	157.829	76.352	1343.419	3.33%	58.64%
115.0	175.623	84.432	1427.851	3.69%	62.33%
120.0	191.623	89.278	1517.129	3.90%	66.23%
125.0	209.305	92.673	1609.803	4.05%	70.27%
130.0	225.903	94.629	1704.432	4.13%	74.40%
135.0	240.893	94.323	1798.755	4.12%	78.52%
140.0	253.790	91.595	1890.349	4.00%	82.52%
145.0	266.314	86.775	1977.125	3.79%	86.31%
150.0	275.173	79.738	2056.863	3.48%	89.79%
155.0	276.482	69.812	2126.675	3.05%	92.83%
160.0	272.482	57.576	2184.251	2.51%	95.35%
165.0	276.930	45.279	2229.53	1.98%	97.32%
170.0	296.145	33.994	2263.525	1.48%	98.81%
175.0	310.986	21.719	2285.244	0.95%	99.76%
180.0	155.998	5.583	2290.826	0.24%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	207.50	9.06%	9.06%
0-40	350.17	15.29%	15.29%
0-60	683.83	29.85%	29.85%
0-90	1114.30	48.64%	48.64%
0-120	1517.13	66.23%	66.23%
0-180	2290.83	100.00%	100.00%
60-90	430.47	18.79%	18.79%
90-120	402.83	17.58%	17.58%
90-130	590.13	25.76%	25.76%
90-150	942.56	41.14%	41.14%
90-180	1170.94	51.11%	51.11%
0-136.85	1832.66	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	24.52
10-20	71.29
20-30	111.69
30-40	142.67
40-50	162.43
50-60	171.23
60-70	170.03
70-80	155.92
80-90	104.53
90-100	88.65
100-110	140.47
110-120	173.71
120-130	187.30
130-140	185.92
140-150	166.51
150-160	127.39
160-170	79.27
170-180	21.72



C60(Max): ——

C0/C180: ——

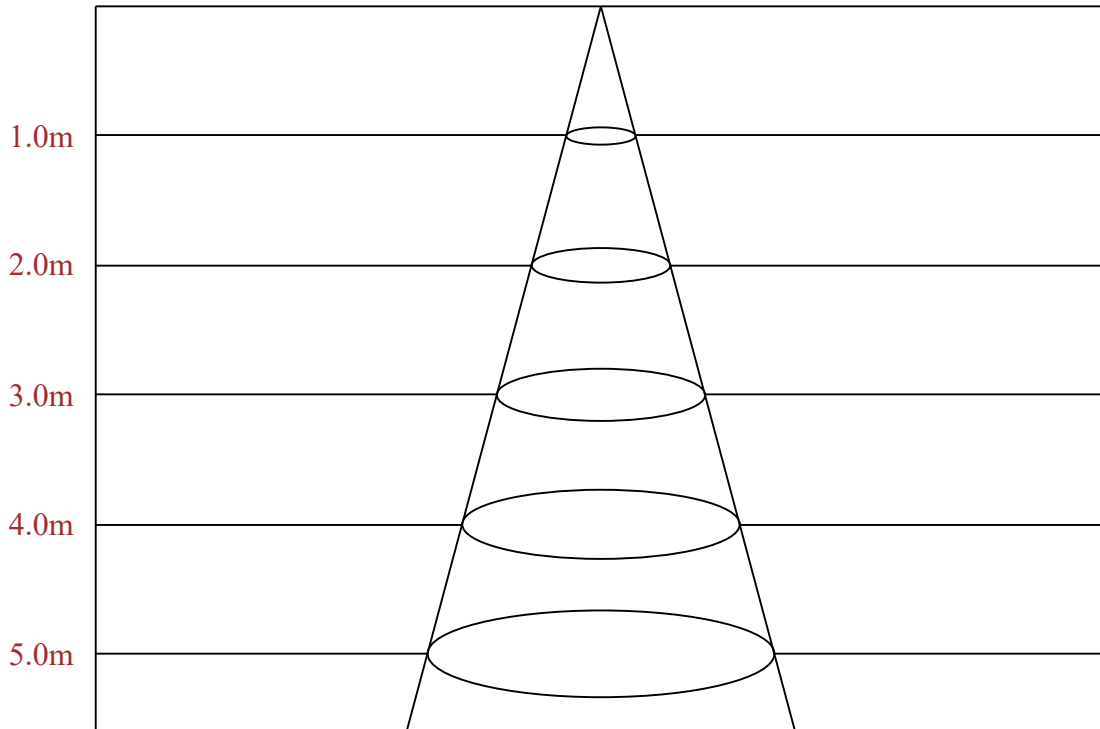
C90/C270: ——

Field angle(10%Imax):C0/180Left:0.0 Right:0.0

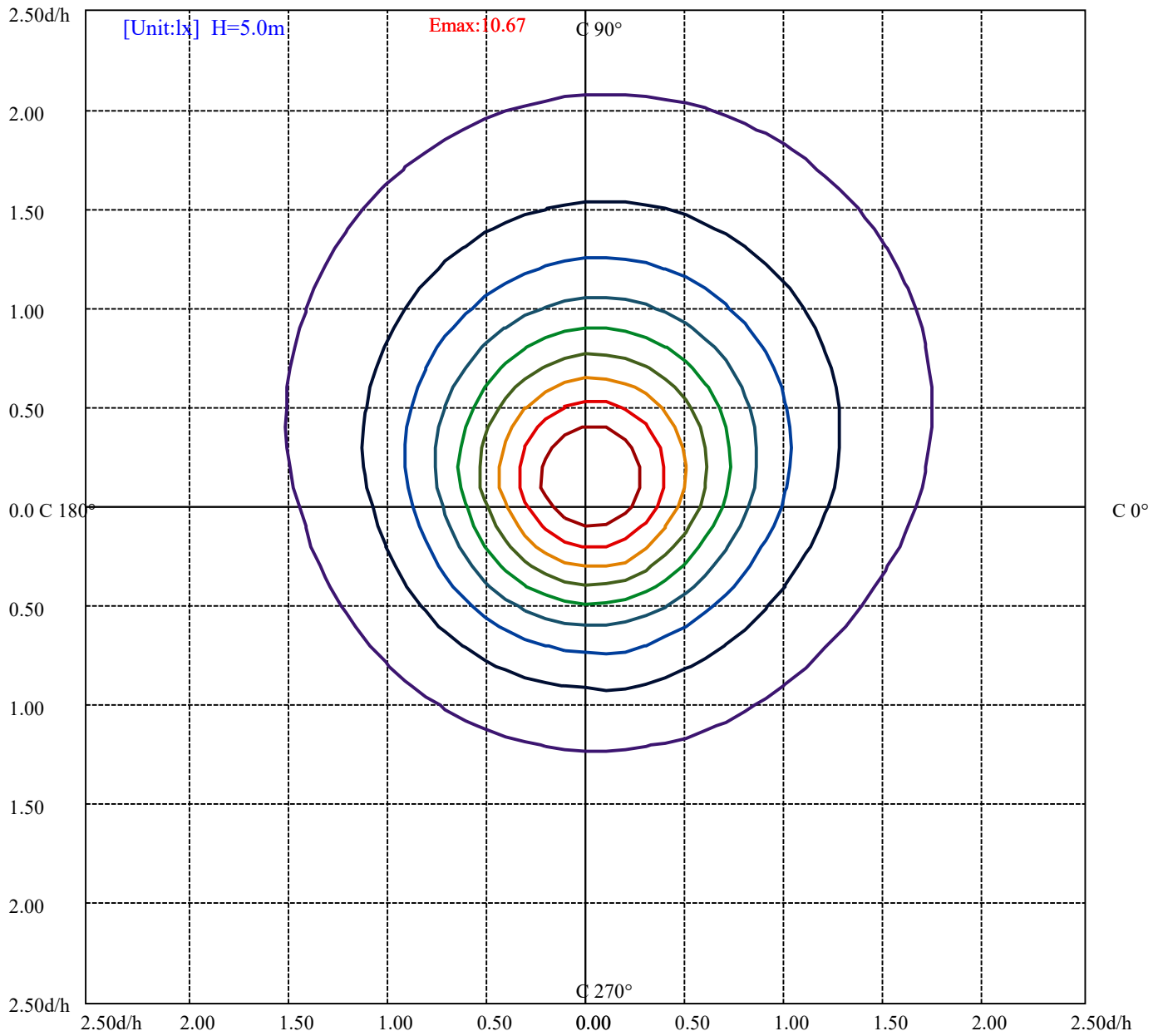
:C90/270Left:0.0 Right:0.0

Beam Angle(50%Imax):C0/180Left:0.0 Right:0.0

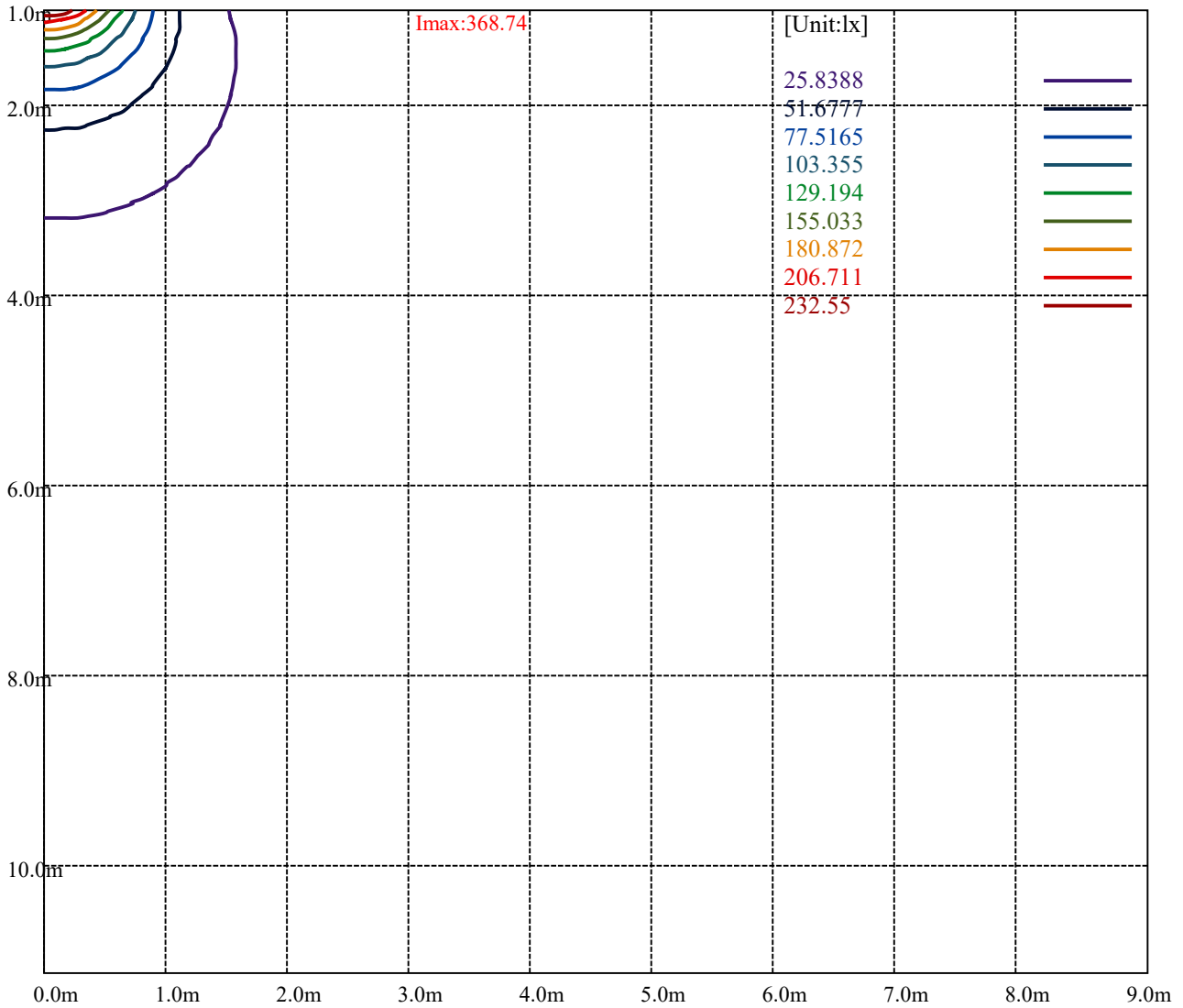
:C90/270Left:0.0 Right:0.0



Max , Ave Beam angle of C60 plane 225.83



(10%Emax) 1.0667	—
(20%Emax) 2.1334	—
(30%Emax) 3.2001	—
(40%Emax) 4.2668	—
(50%Emax) 5.33348	—
(60%Emax) 6.4002	—
(70%Emax) 7.46688	—
(80%Emax) 8.5336	—
(90%Emax) 9.60028	—



Luminance Table

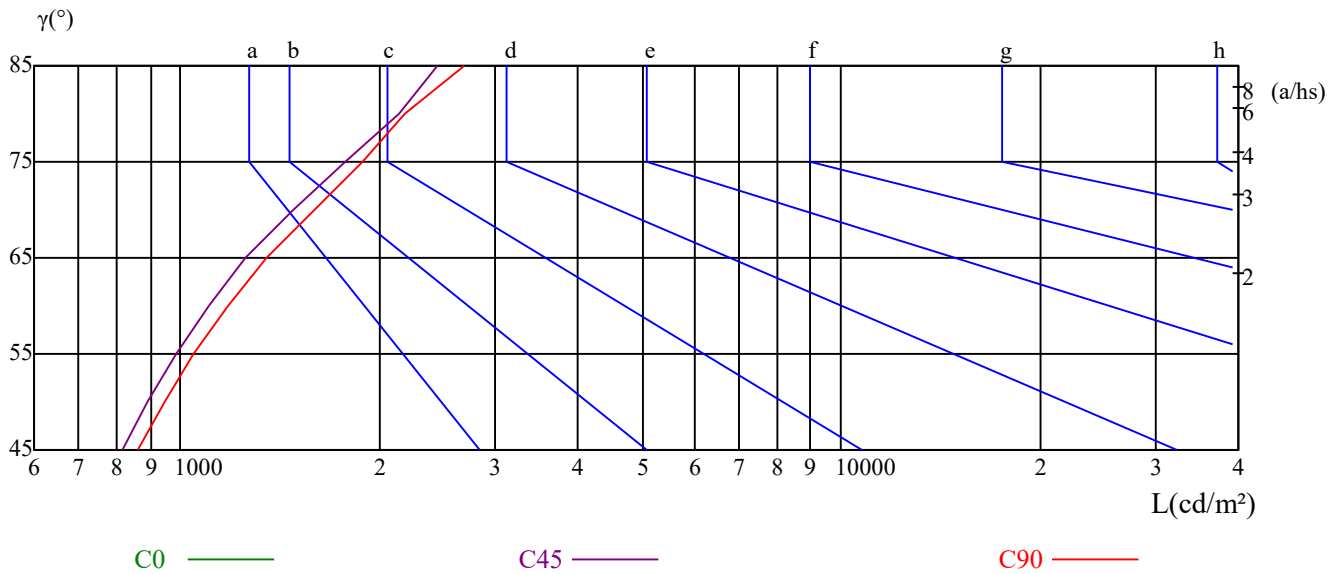
γ	45	50	55	60	65	70	75	80	85
C0	577	599	633	682	754	848	1031	1246	1494
C45	814	888	984	1106	1252	1479	1778	2145	2454
C90	861	945	1044	1177	1349	1595	1883	2190	2691

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
695	916	806	972	1307	1159	1823	2509	2202

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve



RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.07	1.07	1.07	0.98	0.98	0.98	0.83	0.83	0.83	0.68	0.68	0.68	0.55	0.55	0.55	0.49
1	0.90	0.85	0.81	0.83	0.78	0.75	0.69	0.66	0.63	0.56	0.54	0.52	0.45	0.43	0.42	0.36
2	0.77	0.70	0.64	0.71	0.64	0.59	0.59	0.54	0.50	0.48	0.45	0.41	0.38	0.35	0.33	0.28
3	0.67	0.59	0.52	0.61	0.54	0.48	0.51	0.46	0.41	0.42	0.37	0.34	0.33	0.30	0.27	0.23
4	0.59	0.50	0.43	0.54	0.46	0.40	0.45	0.39	0.34	0.37	0.32	0.28	0.29	0.25	0.23	0.19
5	0.52	0.43	0.37	0.48	0.40	0.34	0.40	0.34	0.29	0.32	0.28	0.24	0.26	0.22	0.19	0.16
6	0.46	0.38	0.31	0.43	0.35	0.29	0.36	0.29	0.25	0.29	0.24	0.21	0.23	0.19	0.17	0.14
7	0.42	0.33	0.27	0.38	0.31	0.25	0.32	0.26	0.22	0.26	0.22	0.18	0.21	0.17	0.15	0.12
8	0.38	0.29	0.24	0.35	0.27	0.22	0.29	0.23	0.19	0.24	0.19	0.16	0.19	0.16	0.13	0.10
9	0.34	0.26	0.21	0.32	0.24	0.20	0.27	0.21	0.17	0.22	0.17	0.14	0.18	0.14	0.12	0.09
10	0.31	0.24	0.19	0.29	0.22	0.17	0.24	0.19	0.15	0.20	0.16	0.13	0.16	0.13	0.10	0.08

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Intensity data(cd)

C/ γ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	258.39	260.18	261.08	258.39	255.70	250.31	244.03	236.86	227.88
15.0	257.49	262.87	265.57	267.36	268.26	267.36	264.67	261.08	256.59
30.0	256.59	264.67	270.95	276.33	279.92	282.61	284.41	284.41	283.51
45.0	257.49	266.46	275.43	283.51	289.79	296.07	299.66	304.14	306.84
60.0	256.59	268.26	278.13	288.00	296.07	304.14	310.43	316.71	321.19
75.0	256.59	269.15	279.92	289.79	299.66	307.73	315.81	321.19	327.47
90.0	257.49	269.15	279.92	289.79	298.76	305.94	312.22	318.50	322.99
105.0	258.39	269.15	278.13	286.20	293.38	298.76	304.14	306.84	309.53
120.0	258.39	267.36	274.54	280.82	285.30	288.00	289.79	289.79	288.89
135.0	264.67	265.57	270.95	273.64	274.54	274.54	271.85	268.26	263.77
150.0	260.18	263.77	265.57	264.67	260.18	258.39	253.90	245.83	236.86
165.0	261.08	261.98	260.18	256.59	251.21	244.03	235.96	225.19	211.74
180.0	258.39	254.80	249.42	242.24	233.27	223.40	211.74	199.17	184.82
195.0	257.49	251.21	243.14	233.27	221.60	209.04	195.59	181.23	166.88
210.0	256.59	247.62	237.75	225.19	212.63	199.17	184.82	170.46	154.32
225.0	257.49	245.83	234.16	220.71	207.25	192.89	177.64	162.39	146.24
240.0	256.59	244.03	231.47	217.12	203.66	187.51	172.26	156.11	140.86
255.0	256.59	244.03	229.68	216.22	200.97	185.72	169.57	153.42	138.17
270.0	257.49	244.93	231.47	216.22	201.87	186.61	170.46	155.21	139.06
285.0	258.39	246.73	233.27	218.91	205.45	190.20	174.95	159.70	155.21
300.0	258.39	248.52	236.86	224.30	220.71	196.48	181.23	165.98	150.73
315.0	264.67	251.21	241.34	230.58	218.91	205.45	192.00	176.74	161.49
330.0	260.18	254.80	247.62	238.65	227.88	217.12	203.66	190.20	176.74
345.0	261.08	258.39	253.90	248.52	240.44	231.47	219.81	209.04	196.48
360.0	258.39	260.18	261.08	258.39	255.70	250.31	244.03	236.86	227.88
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	218.02	208.15	199.17	190.20	182.13	171.36	165.98	148.04	113.04
15.0	250.31	244.03	238.65	231.47	226.09	214.43	215.32	192.00	141.75
30.0	281.72	279.92	277.23	274.54	269.15	261.08	259.29	232.37	170.46
45.0	307.73	308.63	309.53	308.63	302.35	298.76	286.20	254.80	185.72
60.0	323.88	327.47	329.27	329.27	325.68	320.29	305.04	264.67	202.76
75.0	331.06	334.65	336.44	336.44	333.75	328.37	311.32	269.15	205.45
90.0	325.68	328.37	328.37	328.37	325.68	322.09	303.25	260.18	203.66
105.0	310.43	310.43	308.63	305.94	302.35	297.86	283.51	244.03	189.31
120.0	286.20	282.61	278.13	272.74	267.36	261.08	251.21	218.91	169.57
135.0	257.49	250.31	241.34	233.27	225.19	218.02	209.04	183.03	143.55
150.0	226.99	216.22	205.45	193.79	184.82	174.05	165.08	146.24	114.84
165.0	200.97	187.51	173.16	160.60	148.04	136.37	124.71	110.35	87.03
180.0	170.46	156.11	140.86	127.40	113.04	101.38	87.03	73.57	46.65
195.0	151.62	135.47	121.12	104.97	91.51	77.16	62.80	50.24	29.61
210.0	139.06	122.91	106.76	91.51	77.16	62.80	49.35	36.78	22.43
225.0	130.99	113.94	99.59	84.34	69.08	54.73	41.27	28.71	17.94
240.0	124.71	108.56	93.31	78.95	64.60	49.35	36.78	25.12	14.35
255.0	122.02	106.76	91.51	77.16	62.80	48.45	34.99	32.30	14.35
270.0	123.81	107.66	92.41	88.82	63.70	49.35	36.78	25.12	16.15
285.0	128.30	112.15	96.90	82.54	68.19	53.83	42.17	31.40	22.43
300.0	135.47	120.22	104.07	89.72	75.36	62.80	51.14	41.27	30.50
315.0	146.24	130.99	115.74	101.38	87.92	76.26	66.39	53.83	38.58
330.0	161.49	147.14	133.68	121.12	108.56	97.79	87.92	75.36	49.35
345.0	183.03	171.36	159.70	148.93	137.27	130.99	117.53	103.18	63.70
360.0	218.02	208.15	199.17	190.20	182.13	171.36	165.98	148.04	113.04

Equipment: LC-I-902 GMS-2000
Temperature(°C): 25.1

Date: 2025/7/14
Humidity(%): 61.9%

Operator: JUN WANG
Distance(m): 29.95

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Intensity data(cd)

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C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	63.70	96.90	115.74	158.80	197.38	214.43	230.58	246.73	261.08
15.0	87.03	108.56	135.47	177.64	225.19	250.31	265.57	281.72	293.38
30.0	104.07	116.63	153.42	201.87	248.52	279.02	298.76	311.32	322.99
45.0	116.63	130.99	168.67	221.60	271.85	301.45	319.40	331.96	343.62
60.0	130.99	131.89	180.33	235.06	280.82	309.53	323.88	339.13	352.59
75.0	138.17	134.58	192.89	244.93	286.20	309.53	328.37	340.03	352.59
90.0	129.19	148.93	201.87	248.52	285.30	305.04	319.40	339.13	349.90
105.0	115.74	139.06	180.33	220.71	248.52	269.15	282.61	303.25	314.91
120.0	102.28	111.25	151.62	189.31	213.53	226.99	247.62	264.67	280.82
135.0	84.34	94.20	122.91	156.11	175.85	187.51	204.56	221.60	241.34
150.0	66.39	75.36	100.48	128.30	139.96	151.62	160.60	182.13	202.76
165.0	49.35	55.63	77.16	98.69	108.56	118.43	129.19	148.93	170.46
180.0	33.20	45.76	67.29	78.05	89.72	100.48	117.53	138.17	158.80
195.0	23.33	36.78	54.73	67.29	76.26	92.41	111.25	127.40	147.14
210.0	16.15	33.20	49.35	61.01	71.77	87.03	105.87	122.02	140.86
225.0	13.46	31.40	44.86	57.42	70.88	86.13	91.51	121.12	138.17
240.0	14.35	30.50	33.20	55.63	70.88	87.03	103.18	119.33	137.27
255.0	17.05	29.61	42.17	56.52	70.88	86.13	103.18	120.22	139.06
270.0	17.05	30.50	44.86	59.21	72.67	88.82	106.76	123.81	142.65
285.0	21.53	37.68	50.24	64.60	78.95	95.10	113.04	131.89	149.83
300.0	29.61	46.65	61.91	76.26	90.62	107.66	123.81	144.45	162.39
315.0	36.78	57.42	78.95	93.31	109.46	124.71	141.75	160.60	179.44
330.0	44.86	69.08	100.48	119.33	135.47	151.62	168.67	185.72	205.45
345.0	61.01	87.03	119.33	152.52	168.67	184.82	201.87	218.02	234.16
360.0	63.70	96.90	115.74	158.80	197.38	214.43	230.58	246.73	261.08
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	277.23	289.79	300.56	309.53	315.81	320.29	323.88	322.99	319.40
15.0	305.94	317.60	325.68	331.06	333.75	335.55	334.65	331.06	324.78
30.0	332.85	342.72	348.11	350.80	349.90	348.11	342.72	336.44	327.47
45.0	352.59	359.77	363.36	362.46	358.87	353.49	345.42	338.24	330.16
60.0	362.46	366.05	368.74	366.05	358.87	349.90	340.03	334.65	331.96
75.0	360.67	364.26	365.15	362.46	350.80	337.34	324.78	326.57	331.06
90.0	357.98	361.56	360.67	356.18	341.83	321.19	303.25	314.91	329.27
105.0	324.78	329.27	331.06	331.06	315.81	291.58	272.74	297.86	324.78
120.0	291.58	300.56	305.04	308.63	292.48	261.08	242.24	276.33	315.81
135.0	254.80	267.36	276.33	283.51	271.85	235.96	211.74	258.39	304.14
150.0	219.81	233.27	246.73	257.49	251.21	218.02	184.82	235.96	292.48
165.0	188.41	204.56	220.71	235.96	233.27	200.07	169.57	216.22	278.13
180.0	174.95	192.00	207.25	218.91	200.97	182.13	224.30	275.43	296.07
195.0	164.18	182.13	198.28	206.35	198.28	192.89	235.96	283.51	302.35
210.0	158.80	162.39	192.89	200.97	202.76	205.45	246.73	286.20	302.35
225.0	155.21	174.05	191.10	200.97	209.94	221.60	255.70	287.10	302.35
240.0	155.21	174.05	192.00	207.25	221.60	235.96	261.98	287.10	303.25
255.0	157.90	175.85	195.59	212.63	229.68	246.73	269.15	288.00	303.25
270.0	161.49	180.33	200.97	219.81	236.86	254.80	274.54	290.69	305.04
285.0	169.57	189.31	208.15	226.99	245.83	263.77	279.92	294.28	305.94
300.0	181.23	200.97	220.71	237.75	257.49	272.74	287.10	298.76	307.73
315.0	199.17	218.02	235.96	253.90	270.05	284.41	295.17	304.14	309.53
330.0	223.40	240.44	256.59	271.85	285.30	296.07	305.04	309.53	309.53
345.0	251.21	264.67	279.92	291.58	302.35	310.43	314.91	313.12	306.84
360.0	277.23	289.79	300.56	309.53	315.81	320.29	323.88	322.99	319.40

Intensity data(cd)

C/γ(°)	180.0
0.0	298.76
15.0	314.91
30.0	314.91
45.0	316.71
60.0	317.60
75.0	318.50
90.0	317.60
105.0	316.71
120.0	314.91
135.0	311.32
150.0	304.14
165.0	297.86
180.0	0.00
195.0	0.00
210.0	0.00
225.0	0.00
240.0	0.00
255.0	0.00
270.0	0.00
285.0	0.00
300.0	0.00
315.0	0.00
330.0	0.00
345.0	0.00
360.0	298.76