
乐达凯

Client:

LumCAT: LEMW0518LAJUD**

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.184

Lamp flux(lm): 1138.2

Power (W): 21.890

Number of Lamps: 1

PF: 0.994

Length(mm): 50

Width(mm): 20

Phm Type: C

Height(mm): 410

Photometric Results

Lumens(lm): 1138.18, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 52.00

Central intensity(cd): 1.840, Maximum intensity(cd): 322.909

Angle of maximum intensity: C=60.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=300.0

[C90/270]Total=240.0

Field angle(10%Imax): [C0/180]Total=341.0

[C90/270]Total=309.0

Maximum s/h(1/2): C0_180=3.58 C90_270=2.78

Maximum s/h(1/4): C0_180=3.47 C90_270=2.72

Up flux rate of lamp(%): 48.28%

Down flux rate of lamp(%): 51.72%

Up flux rate of LUM(%): 48.28%

Down flux rate of LUM(%): 51.72%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 18.591%

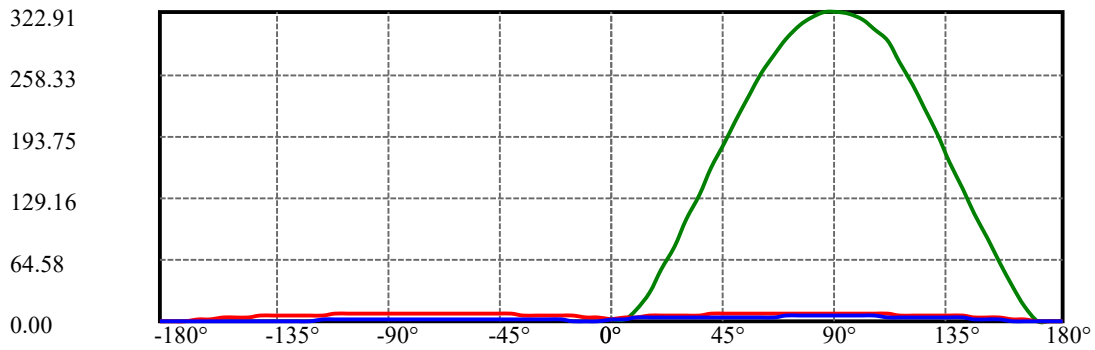
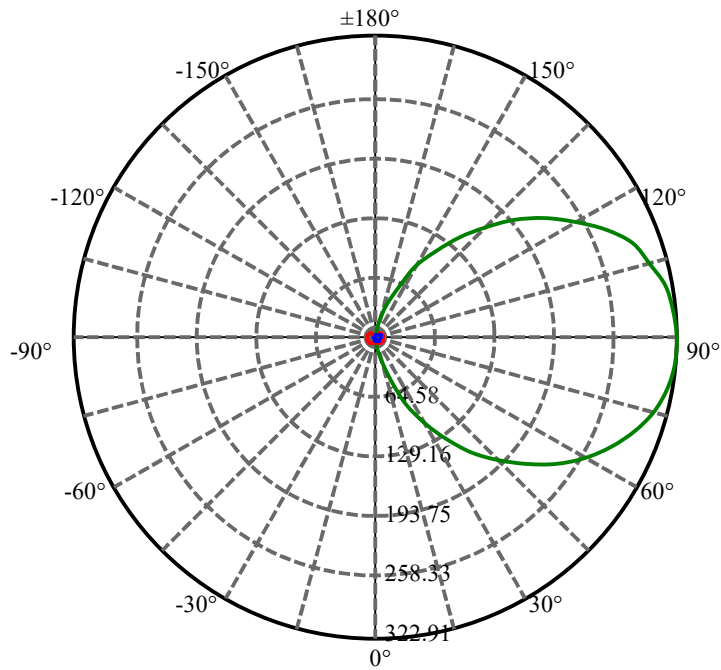
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1.840	0.000	0	0.00%	0.00%
5.0	3.603	0.065	0.065	0.01%	0.01%
10.0	9.928	0.484	0.549	0.04%	0.05%
15.0	19.434	1.742	2.291	0.15%	0.20%
20.0	28.941	3.987	6.278	0.35%	0.55%
25.0	39.789	7.208	13.486	0.63%	1.18%
30.0	50.867	11.473	24.959	1.01%	2.19%
35.0	60.603	16.415	41.373	1.44%	3.64%
40.0	70.186	21.821	63.194	1.92%	5.55%
45.0	79.769	27.765	90.96	2.44%	7.99%
50.0	88.624	34.026	124.986	2.99%	10.98%
55.0	96.443	40.240	165.226	3.54%	14.52%
60.0	104.187	46.375	211.601	4.07%	18.59%
65.0	110.895	52.287	263.888	4.59%	23.19%
70.0	116.683	57.624	321.512	5.06%	28.25%
75.0	121.666	62.301	383.812	5.47%	33.72%
80.0	125.231	66.063	449.875	5.80%	39.53%
85.0	127.607	68.702	518.577	6.04%	45.56%
90.0	128.182	70.037	588.614	6.15%	51.72%
95.0	127.301	69.953	658.568	6.15%	57.86%
100.0	125.346	68.650	727.218	6.03%	63.89%
105.0	121.206	65.970	793.188	5.80%	69.69%
110.0	115.648	61.910	855.098	5.44%	75.13%
115.0	107.483	56.498	911.596	4.96%	80.09%
120.0	98.552	50.087	961.684	4.40%	84.49%
125.0	88.125	43.150	1004.834	3.79%	88.28%
130.0	78.274	36.181	1041.014	3.18%	91.46%
135.0	68.078	29.573	1070.587	2.60%	94.06%
140.0	57.843	23.315	1093.902	2.05%	96.11%
145.0	46.995	17.491	1111.394	1.54%	97.65%
150.0	36.454	12.288	1123.682	1.08%	98.73%
155.0	25.759	7.873	1131.555	0.69%	99.42%
160.0	15.716	4.350	1135.905	0.38%	99.80%
165.0	6.401	1.823	1137.728	0.16%	99.96%
170.0	0.728	0.423	1138.151	0.04%	100.00%
175.0	0.000	0.026	1138.177	0.00%	100.00%
180.0	0.000	0.000	1138.177	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	24.96	2.19%	2.19%
0-40	63.19	5.55%	5.55%
0-60	211.60	18.59%	18.59%
0-90	588.61	51.72%	51.72%
0-120	961.68	84.49%	84.49%
0-180	1138.18	100.00%	100.00%
60-90	377.01	33.12%	33.12%
90-120	373.07	32.78%	32.78%
90-130	452.40	39.75%	39.75%
90-150	535.07	47.01%	47.01%
90-180	549.56	48.28%	48.28%
0-114.91	910.54	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	0.55
10-20	5.73
20-30	18.68
30-40	38.24
40-50	61.79
50-60	86.61
60-70	109.91
70-80	128.36
80-90	138.74
90-100	138.60
100-110	127.88
110-120	106.59
120-130	79.33
130-140	52.89
140-150	29.78
150-160	12.22
160-170	2.25
170-180	0.03



C60(Max): ——

C0/C180: ——

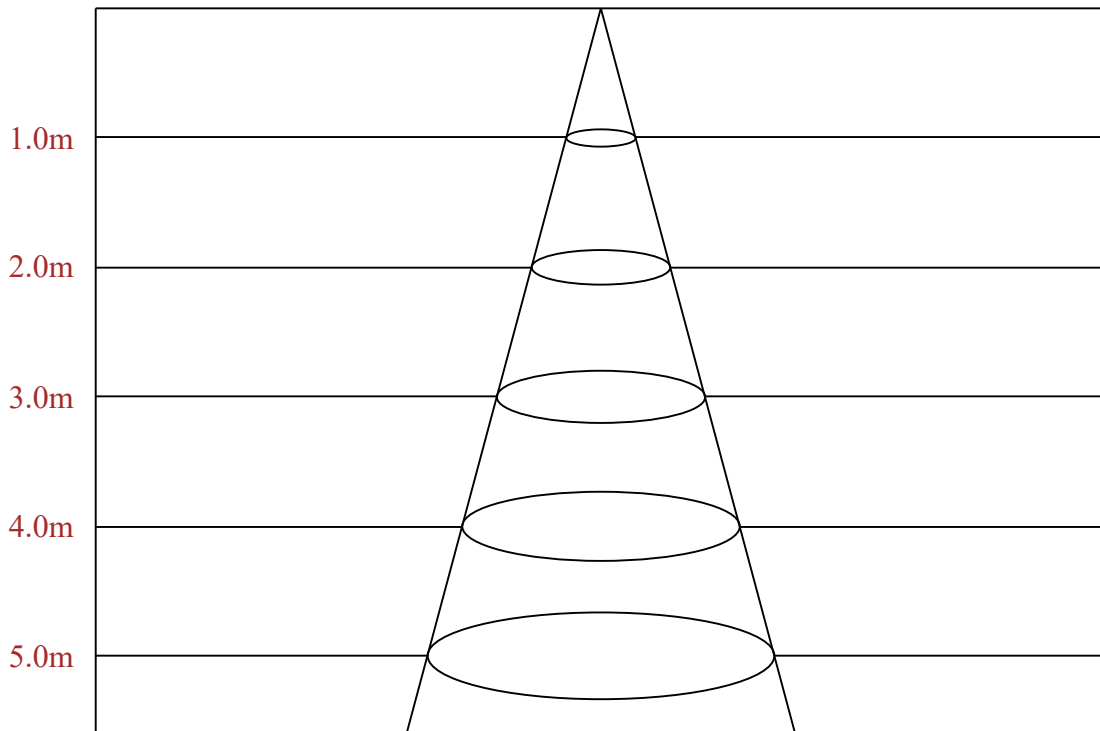
C90/C270: ——

Field angle(10%Imax):C0/180Left:250.5 Right:90.5

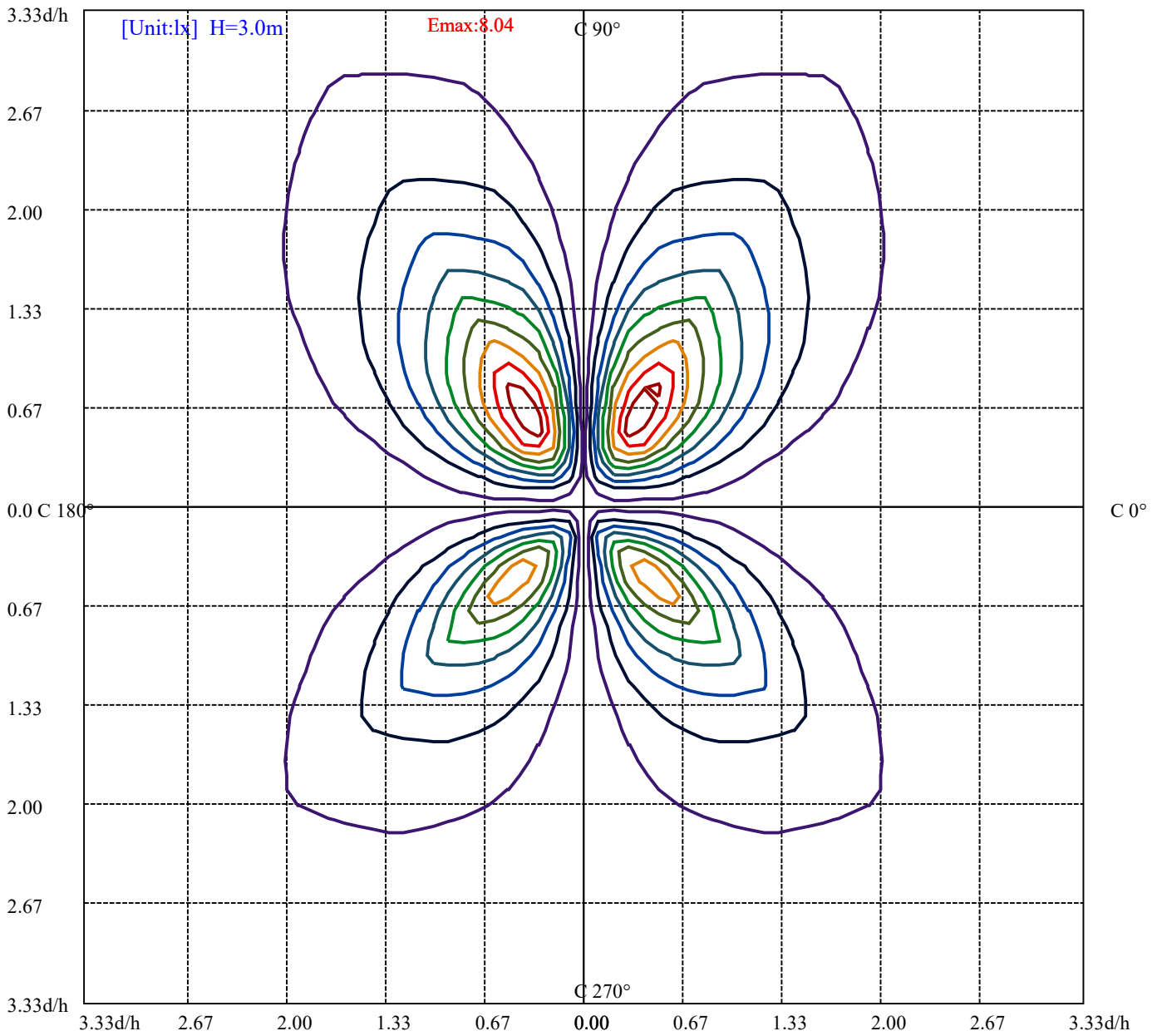
:C90/270Left:252.0 Right:57.0

Beam Angle(50%Imax):C0/180Left:230.0 Right:70.0

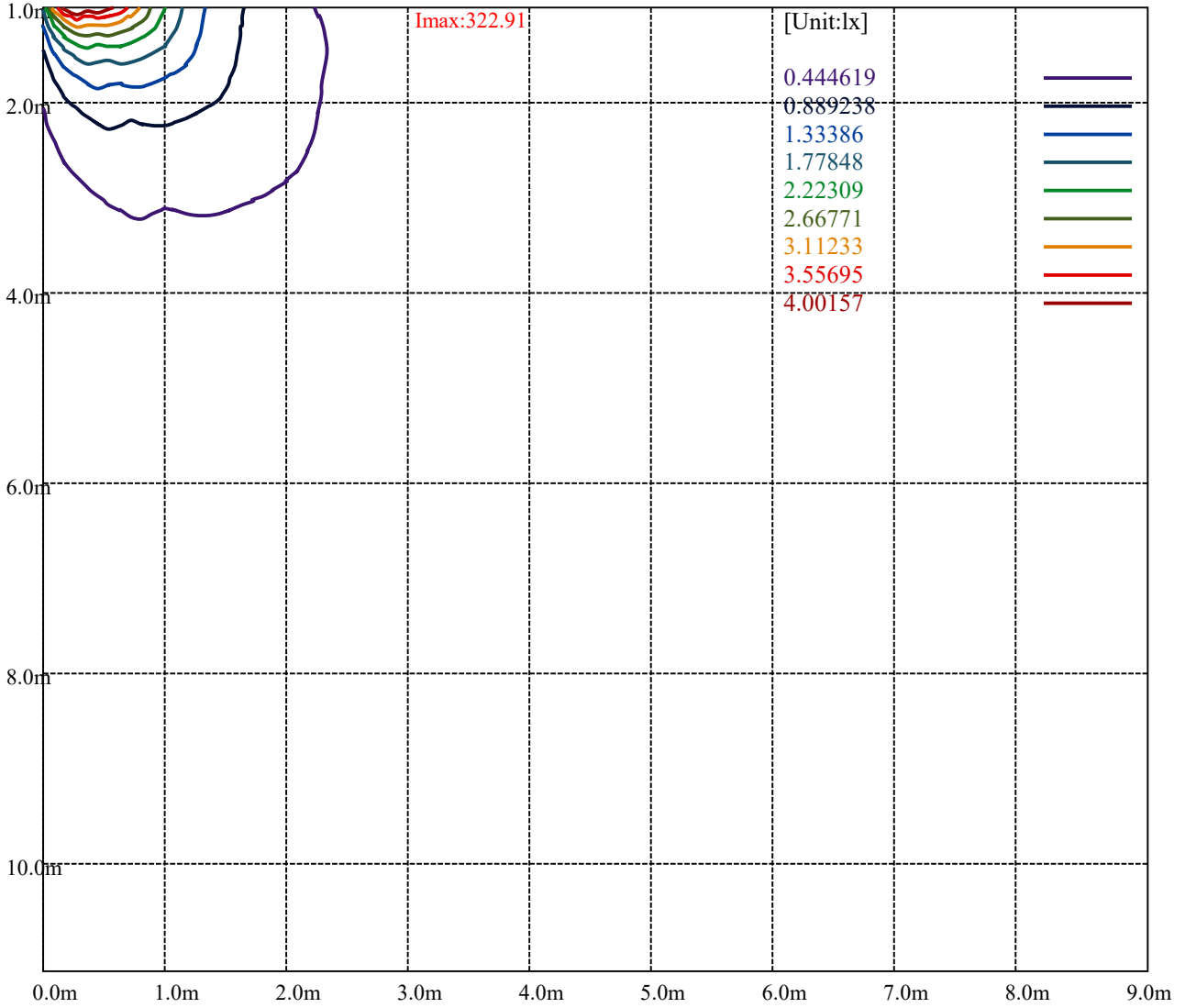
:C90/270Left:195.0 Right:45.0



Max , Ave Beam angle of C60 plane 335.97



- (10%Emax) 0.8042911
- (20%Emax) 1.608578
- (30%Emax) 2.412878
- (40%Emax) 3.217167
- (50%Emax) 4.021456
- (60%Emax) 4.825745
- (70%Emax) 5.630033
- (80%Emax) 6.434333
- (90%Emax) 7.238622



Luminance Table

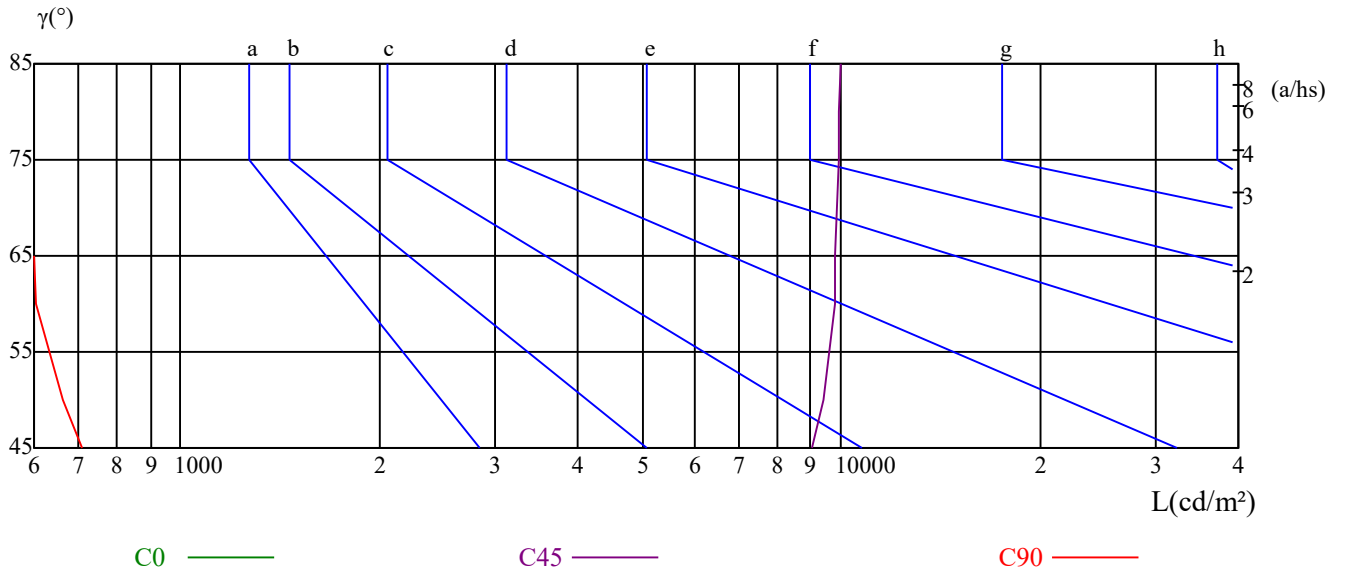
γ	45	50	55	60	65	70	75	80	85
C0	484	450	424	428	436	422	413	407	381
C45	9043	9405	9629	9798	9828	9857	9912	9926	9968
C90	707	664	631	605	586	686	675	669	669

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
19592	7619	431557	31990	14218	751774	89721	42222	2303730

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	1.08	1.08	1.08	0.99	0.99	0.99	0.84	0.84	0.84	0.70	0.70	0.70	0.58	0.58	0.58	0.52
1	0.85	0.79	0.73	0.78	0.72	0.67	0.65	0.60	0.56	0.52	0.49	0.46	0.41	0.39	0.36	0.31
2	0.71	0.62	0.55	0.65	0.57	0.50	0.53	0.47	0.42	0.42	0.38	0.34	0.33	0.29	0.26	0.21
3	0.60	0.50	0.43	0.55	0.46	0.39	0.45	0.38	0.32	0.36	0.30	0.26	0.27	0.23	0.19	0.15
4	0.52	0.42	0.34	0.47	0.38	0.31	0.39	0.31	0.26	0.30	0.25	0.20	0.23	0.19	0.15	0.11
5	0.45	0.36	0.28	0.41	0.33	0.26	0.34	0.27	0.21	0.27	0.21	0.17	0.20	0.16	0.12	0.09
6	0.40	0.31	0.24	0.37	0.28	0.22	0.30	0.23	0.18	0.24	0.18	0.14	0.18	0.13	0.10	0.07
7	0.36	0.27	0.20	0.33	0.24	0.18	0.27	0.20	0.15	0.21	0.16	0.12	0.16	0.12	0.08	0.05
8	0.32	0.23	0.17	0.29	0.21	0.16	0.24	0.17	0.13	0.19	0.14	0.10	0.14	0.10	0.07	0.04
9	0.29	0.21	0.15	0.27	0.19	0.14	0.22	0.16	0.11	0.17	0.12	0.09	0.13	0.09	0.06	0.04
10	0.26	0.18	0.13	0.24	0.17	0.12	0.20	0.14	0.10	0.16	0.11	0.07	0.12	0.08	0.05	0.03

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	1.84	2.76	3.68	4.60	4.60	5.52	6.44	6.44	7.36
15.0	1.84	3.68	6.44	10.12	15.64	21.16	26.68	31.28	34.96
30.0	1.84	3.68	9.20	20.24	32.20	46.00	58.88	69.92	80.04
45.0	1.84	2.76	12.88	29.44	48.76	69.00	90.16	110.40	129.72
60.0	1.84	2.76	11.04	30.36	55.20	81.88	110.40	138.00	168.35
75.0	1.84	2.76	3.68	7.36	12.88	19.32	26.68	34.04	42.32
90.0	1.84	2.76	3.68	4.60	4.60	4.60	4.60	4.60	4.60
105.0	1.84	2.76	7.36	24.84	48.76	75.44	105.80	135.24	167.43
120.0	1.84	2.76	12.88	29.44	51.52	75.44	101.20	127.88	152.71
135.0	1.84	3.68	10.12	23.92	39.56	56.12	87.40	92.00	107.64
150.0	1.84	2.76	7.36	13.80	22.08	31.28	40.48	49.68	57.04
165.0	1.84	2.76	4.60	5.52	7.36	10.12	12.88	14.72	16.56
180.0	1.84	3.68	4.60	5.52	5.52	6.44	6.44	7.36	7.36
195.0	1.84	4.60	9.20	13.80	18.40	23.92	28.52	32.20	34.96
210.0	1.84	6.44	14.72	26.68	38.64	50.60	61.64	71.76	79.12
225.0	1.84	7.36	21.16	37.72	56.12	75.44	91.08	109.48	127.88
240.0	1.84	3.68	20.24	38.64	48.76	57.04	65.32	73.60	80.96
255.0	1.84	0.92	2.76	6.44	9.20	11.96	13.80	15.64	18.40
270.0	1.84	0.92	0.92	0.92	1.84	1.84	1.84	1.84	1.84
285.0	1.84	1.84	12.88	28.52	37.72	46.00	55.20	64.40	66.24
300.0	1.84	5.52	21.16	40.48	43.24	62.56	73.60	85.56	96.60
315.0	1.84	6.44	18.40	33.12	49.68	68.08	84.64	101.20	115.92
330.0	1.84	5.52	12.88	21.16	30.36	40.48	49.68	57.04	64.40
345.0	1.84	3.68	6.44	9.20	11.96	14.72	17.48	20.24	22.08
360.0	1.84	2.76	3.68	4.60	4.60	5.52	6.44	6.44	7.36
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	7.36	7.36	7.36	7.36	8.28	8.28	8.28	8.28	8.28
15.0	37.72	40.48	42.32	44.16	46.00	46.92	47.84	48.76	48.76
30.0	87.40	93.84	98.44	103.04	105.80	108.56	110.40	111.32	111.32
45.0	149.04	166.51	180.31	194.11	203.31	210.67	216.19	219.87	221.71
60.0	195.95	222.63	249.31	273.23	295.31	311.87	325.67	334.87	339.47
75.0	50.60	59.80	68.08	75.44	82.80	88.32	92.92	95.68	97.52
90.0	4.60	4.60	4.60	4.60	4.60	5.52	5.52	5.52	5.52
105.0	199.63	232.75	263.11	288.87	315.55	335.79	354.19	366.15	371.67
120.0	176.63	200.55	223.55	244.71	263.11	277.83	291.63	298.99	304.51
135.0	123.28	138.00	150.88	160.07	166.51	172.03	177.55	180.31	183.07
150.0	65.32	73.60	75.44	78.20	80.96	83.72	85.56	86.48	87.40
165.0	19.32	20.24	21.16	23.00	23.92	24.84	25.76	25.76	26.68
180.0	7.36	7.36	7.36	8.28	8.28	8.28	8.28	8.28	7.36
195.0	38.64	40.48	42.32	44.16	46.00	47.84	48.76	48.76	49.68
210.0	86.48	92.00	96.60	100.28	103.04	106.72	109.48	110.40	112.24
225.0	143.52	157.31	169.27	181.23	190.43	198.71	205.15	210.67	212.51
240.0	85.56	89.24	90.16	95.68	100.28	110.40	122.36	135.24	144.44
255.0	21.16	23.92	26.68	31.28	34.04	34.96	35.88	34.96	35.88
270.0	1.84	1.84	1.84	1.84	1.84	1.84	1.84	2.76	1.84
285.0	81.88	90.16	98.44	115.00	129.72	141.68	152.71	163.75	172.95
300.0	108.56	122.36	140.76	157.31	172.95	187.67	199.63	209.75	217.11
315.0	129.72	142.60	152.71	160.99	169.27	174.79	179.39	183.07	185.83
330.0	69.92	74.52	78.20	80.96	82.80	85.56	87.40	87.40	88.32
345.0	23.00	24.84	25.76	26.68	26.68	27.60	27.60	28.52	28.52
360.0	7.36	7.36	7.36	7.36	8.28	8.28	8.28	8.28	8.28

乐达凯 LEMW0518LAJUD**

Intensity data(cd)

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	7.36	7.36	7.36	7.36	7.36	7.36	7.36	6.44	6.44
15.0	48.76	48.76	48.76	47.84	46.92	45.08	43.24	40.48	37.72
30.0	111.32	111.32	110.40	108.56	105.80	103.04	97.52	92.00	85.56
45.0	222.63	220.79	218.03	213.43	208.83	196.87	184.91	167.43	149.04
60.0	340.39	337.63	331.19	321.07	307.27	284.27	258.51	230.91	201.47
75.0	98.44	97.52	95.68	92.00	88.32	82.80	76.36	69.00	60.72
90.0	5.52	5.52	5.52	5.52	4.60	4.60	4.60	4.60	4.60
105.0	374.43	371.67	365.23	351.43	335.79	310.03	279.67	249.31	218.03
120.0	305.43	302.67	298.07	289.79	277.83	258.51	236.43	212.51	186.75
135.0	184.91	184.91	183.07	179.39	174.79	165.59	155.47	142.60	128.80
150.0	88.32	88.32	87.40	85.56	83.72	80.96	77.28	72.68	67.16
165.0	26.68	26.68	26.68	26.68	25.76	24.84	23.92	22.08	21.16
180.0	7.36	7.36	7.36	7.36	7.36	6.44	6.44	5.52	5.52
195.0	49.68	48.76	48.76	46.92	46.00	43.24	40.48	37.72	34.04
210.0	112.24	111.32	110.40	107.64	103.96	99.36	92.92	86.48	79.12
225.0	215.27	214.35	211.59	206.07	196.87	184.91	180.31	153.63	136.16
240.0	146.28	145.36	148.12	137.08	122.36	105.80	87.40	72.68	64.40
255.0	34.04	32.20	27.60	24.84	21.16	18.40	13.80	9.20	6.44
270.0	2.76	1.84	1.84	1.84	1.84	1.84	0.92	0.92	0.92
285.0	173.87	172.03	165.59	152.71	136.16	116.84	96.60	79.12	68.08
300.0	218.95	218.95	214.35	206.07	192.27	173.87	153.63	132.48	113.16
315.0	185.83	184.91	182.15	177.55	172.03	161.91	149.96	136.16	120.52
330.0	88.32	87.40	86.48	85.56	82.80	79.12	75.44	69.92	64.40
345.0	27.60	27.60	26.68	26.68	25.76	23.92	22.08	21.16	18.40
360.0	7.36	7.36	7.36	7.36	7.36	7.36	7.36	6.44	6.44
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	5.52	5.52	4.60	4.60	3.68	2.76	2.76	0.92	0.00
15.0	34.04	31.28	26.68	22.08	17.48	11.96	6.44	2.76	0.00
30.0	77.28	68.08	58.88	47.84	35.88	23.92	12.88	2.76	0.00
45.0	129.72	110.40	92.00	71.76	52.44	34.04	16.56	1.84	0.00
60.0	172.95	144.44	116.84	90.16	65.32	39.56	18.40	0.92	0.00
75.0	53.36	45.08	36.80	28.52	21.16	12.88	5.52	0.00	0.00
90.0	3.68	3.68	2.76	2.76	1.84	0.92	0.00	0.00	0.00
105.0	183.99	150.88	119.60	90.16	63.48	37.72	15.64	0.00	0.00
120.0	160.99	134.32	109.48	83.72	57.96	34.04	13.80	0.92	0.00
135.0	114.08	97.52	80.96	64.40	46.92	30.36	14.72	2.76	0.00
150.0	60.72	54.28	46.00	36.80	27.60	18.40	9.20	1.84	0.00
165.0	19.32	17.48	14.72	12.88	10.12	7.36	4.60	1.84	0.00
180.0	5.52	4.60	3.68	3.68	2.76	1.84	1.84	0.92	0.00
195.0	30.36	26.68	22.08	17.48	11.96	10.12	2.76	0.00	0.00
210.0	69.92	68.08	49.68	37.72	24.84	13.80	4.60	0.00	0.00
225.0	117.76	96.60	76.36	57.04	36.80	18.40	3.68	0.00	0.00
240.0	56.12	47.84	38.64	29.44	18.40	10.12	1.84	0.00	0.00
255.0	4.60	2.76	0.92	0.92	0.00	0.00	0.00	0.00	0.00
270.0	0.92	0.92	0.92	0.00	0.00	0.00	0.00	0.00	0.00
285.0	58.88	49.68	40.48	31.28	23.00	14.72	1.84	0.00	0.00
300.0	96.60	80.04	64.40	50.60	35.88	22.08	4.60	0.00	0.00
315.0	104.88	86.48	69.92	51.52	34.96	17.48	5.52	0.00	0.00
330.0	56.12	47.84	39.56	30.36	20.24	11.04	4.60	0.00	0.00
345.0	16.56	13.80	11.96	9.20	5.52	3.68	1.84	0.00	0.00
360.0	5.52	5.52	4.60	4.60	3.68	2.76	2.76	0.92	0.00

Intensity data(cd)

C/γ(°)	180.0
0.0	0.00
15.0	0.00
30.0	0.00
45.0	0.00
60.0	0.00
75.0	0.00
90.0	0.00
105.0	0.00
120.0	0.00
135.0	0.00
150.0	0.00
165.0	0.00
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	0.00