
乐达凯

Client:

LumCAT: LEMW0518LAJUD**

Luminaire: LED lamp

Report No:

Ballast type:

Test No: LCZP23120165

Voltage(V): 120.020

LampCAT:

Current(A): 0.186

Lamp flux(lm): 1000.2

Power (W): 22.120

Number of Lamps: 1

PF: 0.993

Length(mm): 50

Width(mm): 20

Phm Type: C

Height(mm): 410

Photometric Results

Lumens(lm): 1000.17, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 45.22

Central intensity(cd): 1.564, Maximum intensity(cd): 328.981

Angle of maximum intensity: C=105.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=299.2

[C90/270]Total=142.4

Field angle(10%Imax): [C0/180]Total=341.1

[C90/270]Total=303.0

Maximum s/h(1/2): C0_180=3.64 C90_270=3.00

Maximum s/h(1/4): C0_180=3.46 C90_270=2.93

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%

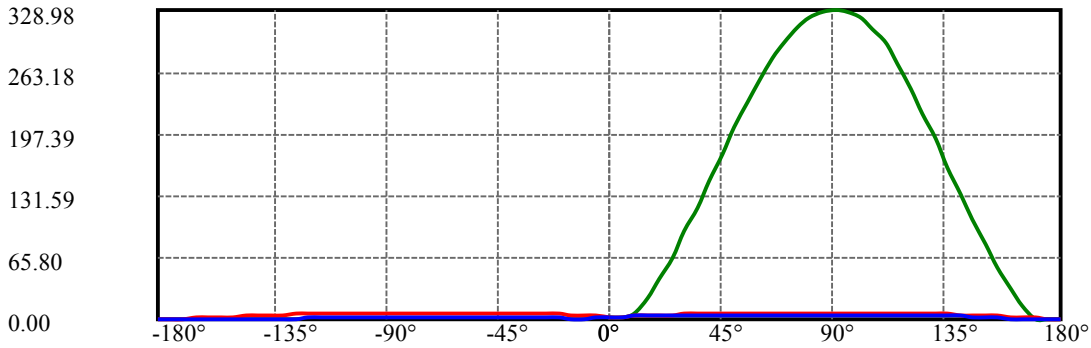
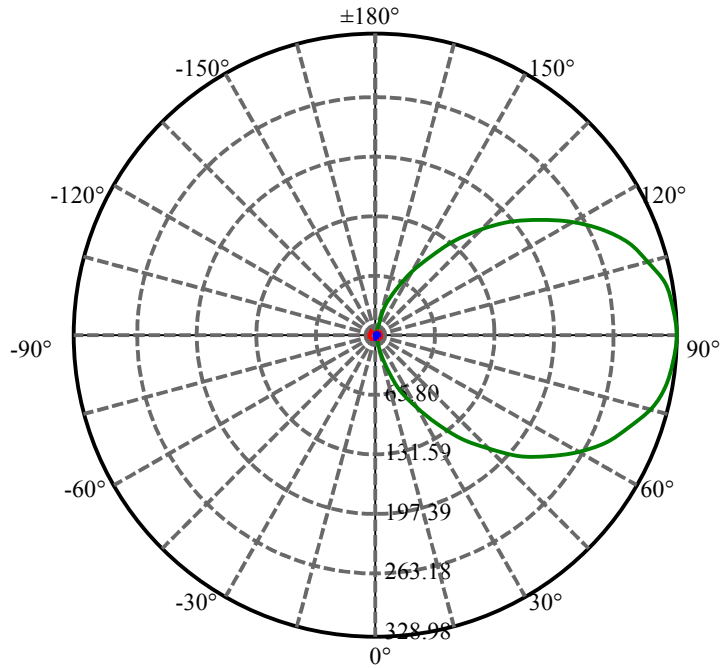
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1.549	0.000	0	0.00%	0.00%
5.0	3.185	0.057	0.057	0.01%	0.01%
10.0	8.659	0.424	0.48	0.04%	0.05%
15.0	17.058	1.526	2.006	0.15%	0.20%
20.0	25.464	3.504	5.51	0.35%	0.55%
25.0	34.993	6.341	11.851	0.63%	1.18%
30.0	44.745	10.091	21.942	1.01%	2.19%
35.0	53.232	14.428	36.37	1.44%	3.64%
40.0	61.661	19.169	55.539	1.92%	5.55%
45.0	70.048	24.387	79.926	2.44%	7.99%
50.0	77.868	29.889	109.814	2.99%	10.98%
55.0	84.821	35.374	145.188	3.54%	14.52%
60.0	91.506	40.758	185.946	4.08%	18.59%
65.0	97.475	45.942	231.888	4.59%	23.18%
70.0	102.500	50.635	282.522	5.06%	28.25%
75.0	106.904	54.735	337.257	5.47%	33.72%
80.0	110.051	58.051	395.309	5.80%	39.52%
85.0	112.167	60.382	455.691	6.04%	45.56%
90.0	112.639	61.554	517.244	6.15%	51.72%
95.0	111.876	61.474	578.718	6.15%	57.86%
100.0	110.140	60.327	639.045	6.03%	63.89%
105.0	106.536	57.976	697.022	5.80%	69.69%
110.0	101.603	54.404	751.426	5.44%	75.13%
115.0	94.439	49.639	801.065	4.96%	80.09%
120.0	86.561	44.001	845.066	4.40%	84.49%
125.0	77.435	37.907	882.974	3.79%	88.28%
130.0	68.772	31.790	914.764	3.18%	91.46%
135.0	59.879	25.996	940.759	2.60%	94.06%
140.0	50.844	20.501	961.26	2.05%	96.11%
145.0	41.322	15.377	976.638	1.54%	97.65%
150.0	31.931	10.787	987.424	1.08%	98.73%
155.0	22.643	6.906	994.331	0.69%	99.42%
160.0	13.849	3.827	998.158	0.38%	99.80%
165.0	5.585	1.602	999.76	0.16%	99.96%
170.0	0.751	0.376	1000.136	0.04%	100.00%
175.0	0.080	0.030	1000.165	0.00%	100.00%
180.0	0.023	0.001	1000.167	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	21.94	2.19%	2.19%
0-40	55.54	5.55%	5.55%
0-60	185.95	18.59%	18.59%
0-90	517.24	51.72%	51.72%
0-120	845.07	84.49%	84.49%
0-180	1000.17	100.00%	100.00%
60-90	331.30	33.12%	33.12%
90-120	327.82	32.78%	32.78%
90-130	397.52	39.75%	39.75%
90-150	470.18	47.01%	47.01%
90-180	482.92	48.28%	48.28%
0-114.91	800.13	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	0.48
10-20	5.03
20-30	16.43
30-40	33.60
40-50	54.28
50-60	76.13
60-70	96.58
70-80	112.79
80-90	121.94
90-100	121.80
100-110	112.38
110-120	93.64
120-130	69.70
130-140	46.50
140-150	26.16
150-160	10.73
160-170	1.98
170-180	0.03



C105(Max): —

C0/C180: —

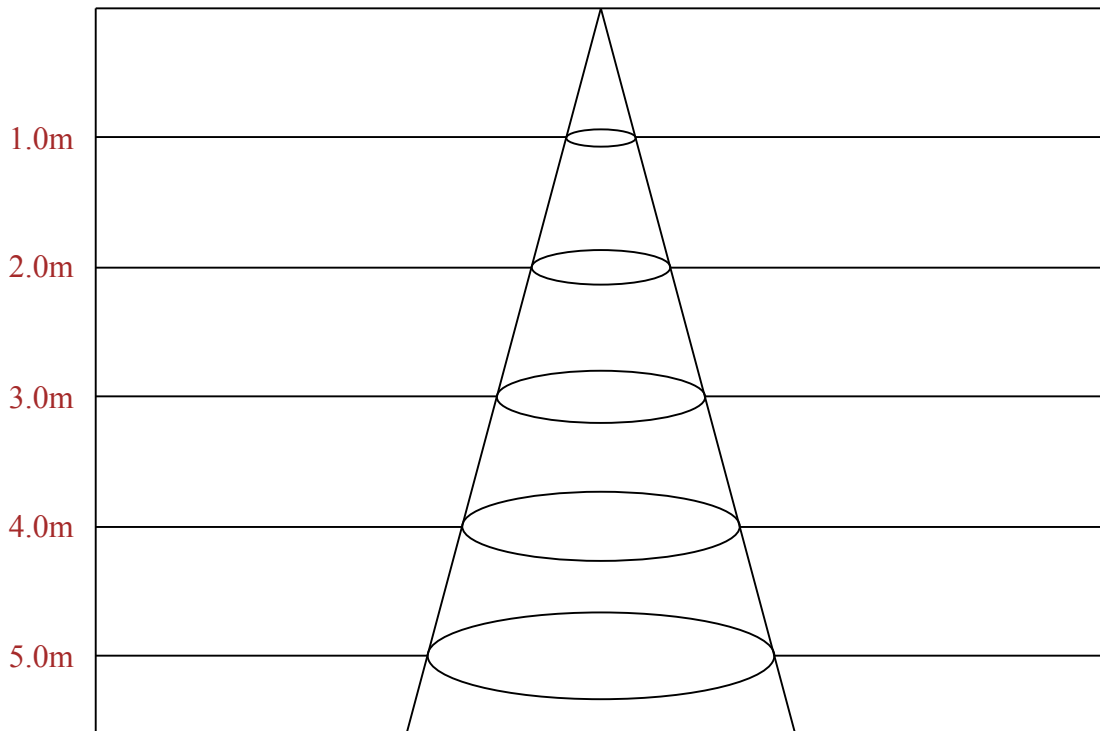
C90/C270: —

Field angle(10%Imax):C0/180Left:248.6 Right:92.5

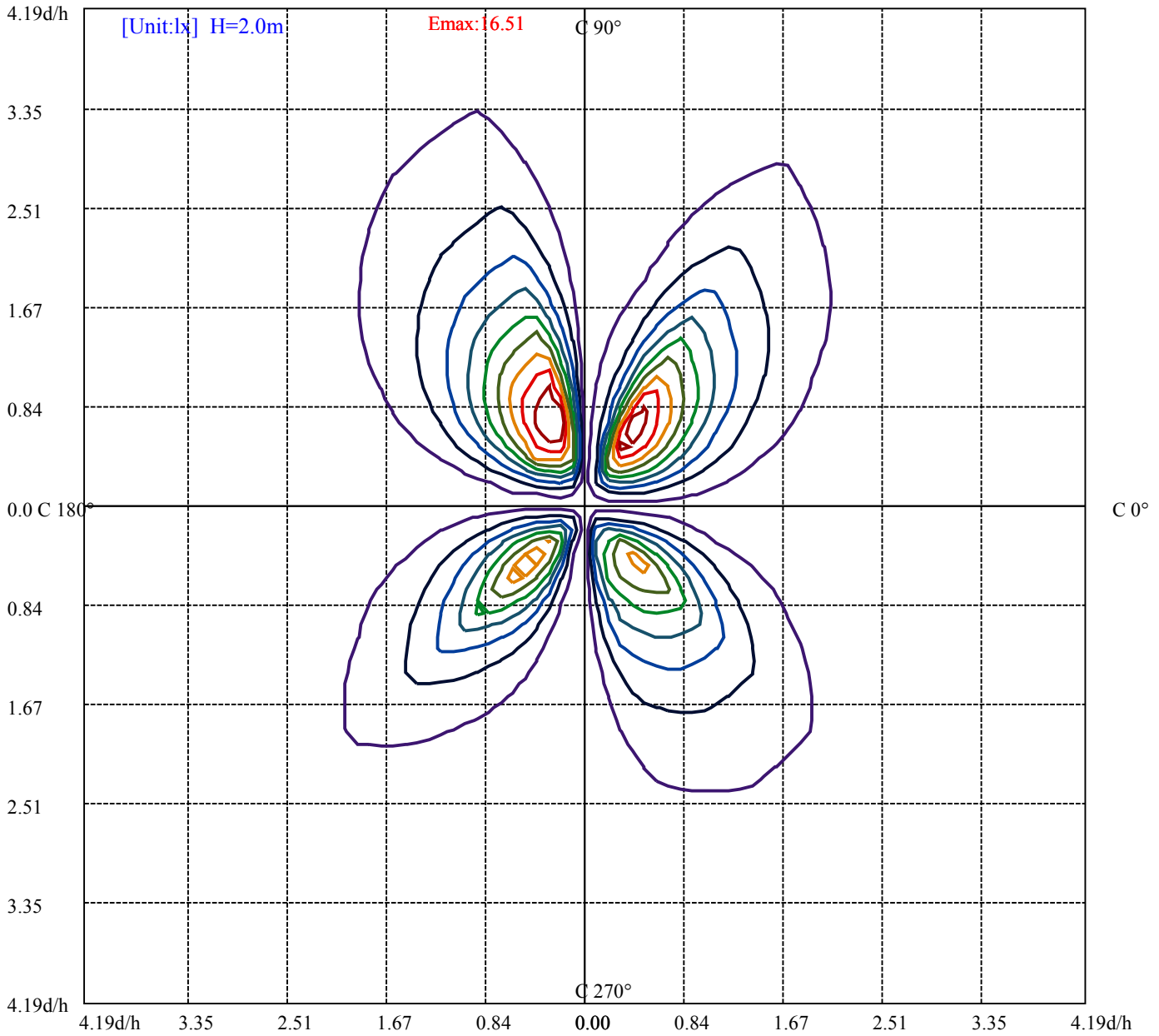
:C90/270Left:219.0 Right:84.0

Beam Angle(50%Imax):C0/180Left:225.0 Right:74.2

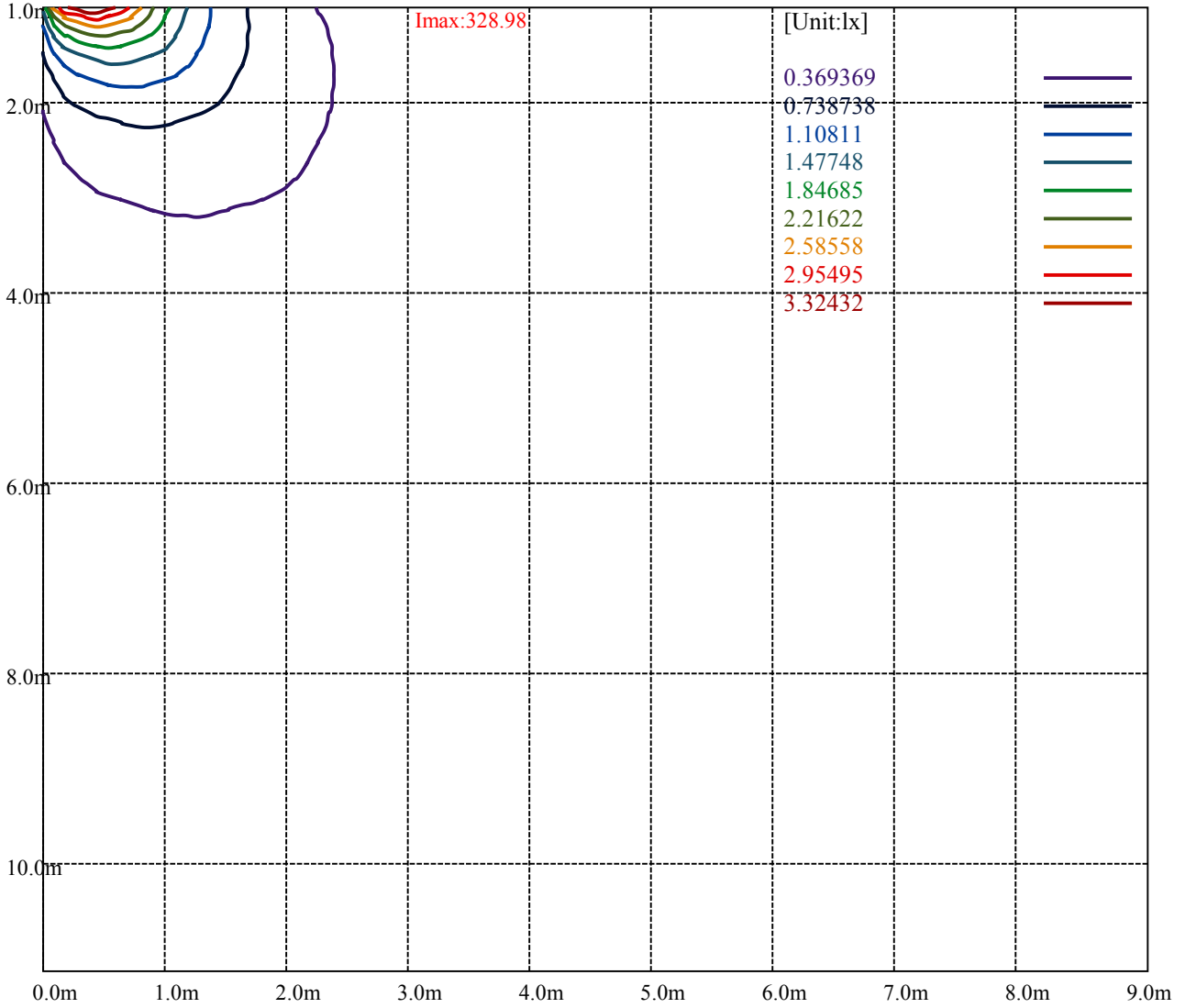
:C90/270Left:74.4 Right:68.0



Max , Ave Beam angle of C105 plane 337.67



(10%Emax) 1.65088	—
(20%Emax) 3.30175	—
(30%Emax) 4.95265	—
(40%Emax) 6.603525	—
(50%Emax) 8.2544	—
(60%Emax) 9.905275	—
(70%Emax) 11.55618	—
(80%Emax) 13.20705	—
(90%Emax) 14.85793	—



Luminance Table

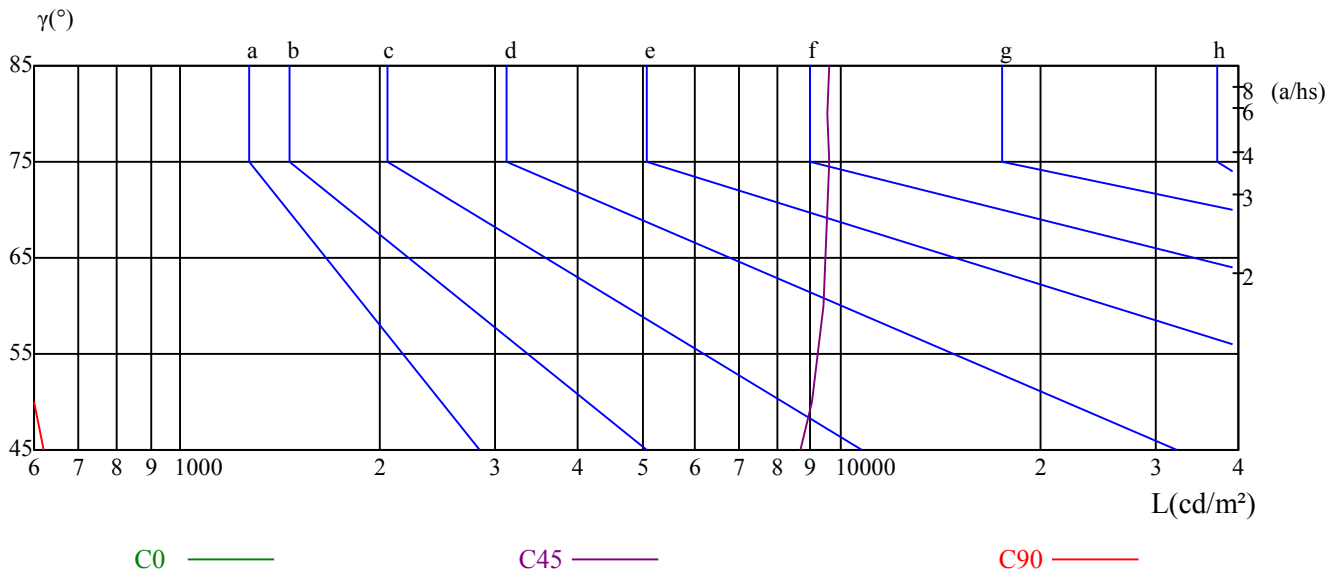
γ	45	50	55	60	65	70	75	80	85
C0	418	400	381	373	368	357	349	343	336
C45	8676	9018	9228	9426	9500	9530	9579	9570	9579
C90	622	585	580	581	562	572	562	580	568

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
16544	7184	379204	26836	12441	661135	78638	38000	2023746

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	1.56	2.67	3.31	3.77	4.42	4.97	5.34	5.89	6.26
15.0	1.66	2.85	5.34	9.20	13.52	18.68	23.18	27.23	30.73
30.0	1.66	3.13	8.46	17.48	28.43	40.11	51.52	61.09	70.10
45.0	1.56	2.76	11.22	25.58	42.78	60.26	79.30	97.15	114.17
60.0	1.47	2.39	9.48	26.77	48.21	72.03	97.15	121.25	147.75
75.0	1.47	2.39	3.31	6.35	11.41	17.11	23.83	30.27	37.44
90.0	1.47	2.30	3.13	3.68	3.86	3.77	3.77	3.86	3.86
105.0	1.47	2.12	6.62	22.17	43.24	65.96	93.10	118.58	147.29
120.0	1.56	2.58	11.04	25.85	45.35	66.70	89.15	112.05	134.04
135.0	1.66	2.85	9.11	20.98	34.41	49.68	76.82	81.05	94.48
150.0	1.47	2.76	6.16	12.24	19.60	27.78	35.97	43.42	50.41
165.0	1.56	2.67	3.68	5.15	6.81	8.92	10.95	12.97	14.81
180.0	1.56	3.13	4.05	4.69	5.15	5.70	5.98	6.35	6.53
195.0	1.66	4.14	7.82	12.14	16.47	21.07	25.21	28.34	31.09
210.0	1.66	5.43	13.34	23.28	34.04	44.62	54.37	63.39	69.92
225.0	1.56	6.26	18.22	33.30	49.31	66.15	80.41	96.32	112.14
240.0	1.47	3.50	17.48	34.04	42.69	50.41	57.50	64.40	70.84
255.0	1.47	1.01	2.30	5.43	7.91	10.12	12.05	13.98	16.01
270.0	1.47	1.10	0.74	0.92	1.29	1.47	1.56	1.56	1.47
285.0	1.47	1.56	11.32	24.93	32.93	40.66	48.57	56.49	58.05
300.0	1.56	4.78	18.31	35.23	37.99	54.74	64.86	74.89	84.91
315.0	1.66	5.89	16.28	29.44	43.51	59.98	74.24	89.05	101.75
330.0	1.47	4.78	11.32	18.49	27.05	35.69	43.42	50.41	56.58
345.0	1.56	3.40	5.80	8.28	10.76	13.25	15.64	17.57	19.23
360.0	1.56	2.67	3.31	3.77	4.42	4.97	5.34	5.89	6.26
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	6.35	6.53	6.62	6.81	6.99	6.99	6.99	6.99	6.90
15.0	33.39	35.60	37.44	39.01	40.48	41.58	42.23	42.87	43.15
30.0	76.82	82.34	86.85	90.16	92.92	95.31	96.87	97.70	98.07
45.0	130.64	146.00	158.69	170.38	178.75	185.01	190.25	192.92	194.48
60.0	171.85	195.86	219.04	240.02	259.34	273.97	286.29	294.02	298.35
75.0	44.62	52.16	59.52	66.05	72.95	77.55	81.79	84.18	85.83
90.0	4.05	4.05	4.23	4.42	4.42	4.60	4.60	4.78	4.69
105.0	175.62	204.79	231.19	254.00	277.28	295.13	311.59	321.81	326.87
120.0	155.20	176.45	196.41	214.90	231.00	244.53	256.30	263.02	267.62
135.0	108.65	121.53	132.20	140.48	146.55	151.43	155.75	158.51	160.99
150.0	57.04	65.04	65.96	68.81	71.30	73.23	74.98	76.36	77.00
165.0	16.65	17.76	18.95	20.06	20.98	21.80	22.54	22.91	23.28
180.0	6.62	6.81	6.81	6.90	6.99	6.99	6.90	6.99	6.81
195.0	33.58	35.60	37.44	39.10	40.39	41.67	42.50	43.24	43.51
210.0	75.71	80.77	84.73	88.04	90.71	93.74	95.95	97.33	98.44
225.0	126.13	138.46	148.76	158.97	167.07	174.24	180.50	184.82	186.94
240.0	74.98	78.38	79.39	83.72	88.13	97.24	107.91	118.77	127.23
255.0	18.22	20.70	23.74	27.51	29.90	31.00	31.74	30.54	31.92
270.0	1.38	1.38	1.56	1.47	1.66	1.75	1.84	2.02	1.93
285.0	71.85	79.39	86.85	101.20	113.98	124.29	134.04	143.79	151.89
300.0	95.40	107.27	123.92	138.18	151.98	164.77	175.16	184.64	190.53
315.0	114.26	124.93	134.32	141.86	148.67	153.82	157.96	161.09	163.11
330.0	61.64	65.41	68.54	71.02	73.14	75.07	76.45	77.19	77.65
345.0	20.52	21.62	22.54	23.09	23.83	24.29	24.56	24.75	24.84
360.0	6.35	6.53	6.62	6.81	6.99	6.99	6.99	6.99	6.90

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	6.81	6.81	6.72	6.62	6.62	6.35	6.07	5.80	5.61
15.0	43.15	43.05	42.50	41.77	40.85	39.65	37.72	35.60	32.93
30.0	98.16	97.52	96.96	95.22	93.38	90.25	85.56	80.50	74.89
45.0	195.31	194.02	191.91	187.67	183.17	173.32	162.19	147.38	131.10
60.0	299.08	296.60	290.99	281.97	269.83	250.05	227.23	202.85	177.37
75.0	86.20	85.56	83.99	81.23	77.83	72.86	66.79	60.72	53.63
90.0	4.69	4.60	4.60	4.51	4.32	4.14	4.05	3.86	3.68
105.0	328.98	326.50	320.70	308.93	295.03	272.22	245.63	218.77	191.35
120.0	268.26	266.33	261.92	254.74	244.25	227.05	208.01	186.94	164.03
135.0	162.65	162.37	160.53	157.87	153.54	145.63	136.25	125.39	113.16
150.0	77.46	77.37	76.73	75.44	73.97	71.02	67.89	63.85	58.97
165.0	23.46	23.46	23.37	23.09	22.63	21.80	20.70	19.69	18.31
180.0	6.72	6.62	6.53	6.44	6.16	5.89	5.52	5.24	4.88
195.0	43.42	43.15	42.59	41.58	40.29	38.27	35.97	33.12	30.18
210.0	98.44	97.61	96.96	94.57	91.54	87.03	81.69	75.90	69.37
225.0	189.15	188.41	185.93	181.05	173.23	162.19	158.69	134.87	119.69
240.0	128.70	127.88	130.27	120.70	107.64	92.73	76.63	63.75	56.67
255.0	30.18	28.06	24.38	21.53	18.31	16.01	12.05	7.91	5.70
270.0	2.02	1.93	1.84	1.66	1.47	1.29	1.10	0.92	0.74
285.0	153.08	151.15	145.26	134.50	119.41	102.48	85.28	69.55	60.17
300.0	192.37	192.09	188.23	181.23	168.63	152.90	135.05	116.74	99.36
315.0	163.20	162.47	160.35	156.39	150.97	142.23	131.46	119.60	105.98
330.0	77.28	77.09	76.27	74.98	73.05	69.92	66.15	61.27	56.21
345.0	24.56	24.38	23.83	23.18	22.36	21.25	19.78	18.22	16.56
360.0	6.81	6.81	6.72	6.62	6.62	6.35	6.07	5.80	5.61
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	5.24	4.78	4.42	3.96	3.40	2.67	2.02	1.20	0.18
15.0	30.18	27.14	23.28	19.60	15.18	10.40	5.89	2.02	0.18
30.0	67.71	60.17	51.61	41.86	31.46	20.70	11.22	2.76	0.09
45.0	114.35	97.06	80.77	63.02	46.46	29.53	14.90	1.75	0.18
60.0	152.07	127.32	102.76	79.30	57.41	35.05	16.56	1.10	0.18
75.0	46.55	39.28	32.38	24.75	18.22	11.32	4.78	0.28	0.00
90.0	3.50	3.13	2.67	2.21	1.47	0.92	0.37	0.18	0.00
105.0	161.91	132.84	105.24	79.30	55.57	33.12	13.43	0.37	0.00
120.0	141.77	117.94	96.32	73.78	51.24	30.18	12.24	0.83	0.09
135.0	100.09	85.74	70.84	56.30	40.85	26.31	12.88	2.30	0.18
150.0	53.73	47.75	40.57	32.38	23.92	15.82	8.46	1.75	0.18
165.0	16.84	15.27	13.34	10.95	8.74	6.26	3.86	1.38	0.09
180.0	4.51	4.05	3.50	3.04	2.48	1.93	1.29	0.46	0.00
195.0	26.96	23.09	19.32	15.00	10.58	9.29	2.67	0.28	0.09
210.0	61.82	59.80	43.51	32.93	22.17	12.24	3.68	0.18	0.09
225.0	103.31	84.82	66.79	50.05	32.57	16.28	2.85	0.09	0.09
240.0	48.94	41.86	34.22	25.67	16.38	9.29	1.47	0.00	0.00
255.0	3.96	2.48	1.20	0.46	0.37	0.28	0.09	0.00	0.00
270.0	0.55	0.46	0.46	0.37	0.28	0.18	0.18	0.00	0.00
285.0	51.70	43.51	35.88	27.60	19.87	12.88	1.56	0.18	0.09
300.0	84.55	70.56	56.67	44.34	31.19	19.04	3.86	0.09	0.09
315.0	92.55	76.27	61.45	45.35	30.54	15.46	4.51	0.18	0.09
330.0	49.68	42.41	34.41	26.40	17.85	9.94	3.68	0.28	0.00
345.0	14.63	12.51	10.12	7.73	5.24	3.31	1.56	0.37	0.00
360.0	5.24	4.78	4.42	3.96	3.40	2.67	2.02	1.20	0.18

Intensity data(cd)

C/γ(°)	180.0
0.0	0.09
15.0	0.00
30.0	0.09
45.0	0.09
60.0	0.09
75.0	0.09
90.0	0.00
105.0	0.00
120.0	0.00
135.0	0.00
150.0	0.09
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	0.09