
弗格斯莱

Client:

LumCAT: OBRP32LAJUDLB

Luminaire: LED Lamp

Report No:

Ballast type:

Test No:

Voltage(V): 119.990

LampCAT:

Current(A): 0.243

Lamp flux(lm): 1441.9

Power (W): 29.050

Number of Lamps: 1

PF: 0.996

Length(mm): -800

Width(mm): -800

Phm Type: C

Height(mm): 40

Photometric Results

Lumens(lm): 1441.85, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 49.63

Central intensity(cd): 158.801, Maximum intensity(cd): 225.193

Angle of maximum intensity: C=60.0 γ =135.0

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=1.18 C90_270=1.86

Maximum s/h(1/4): C0_180=1.32 C90_270=1.99

Up flux rate of lamp(%): 50.18%

Down flux rate of lamp(%): 49.82%

Up flux rate of LUM(%): 50.18%

Down flux rate of LUM(%): 49.82%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 29.134%

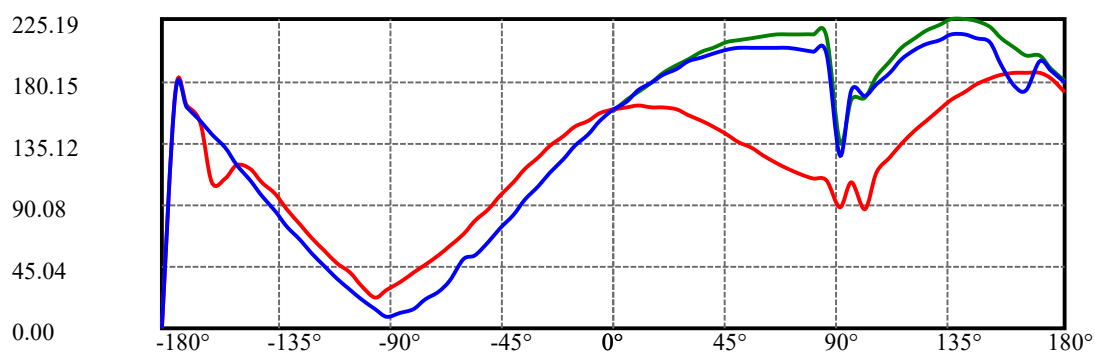
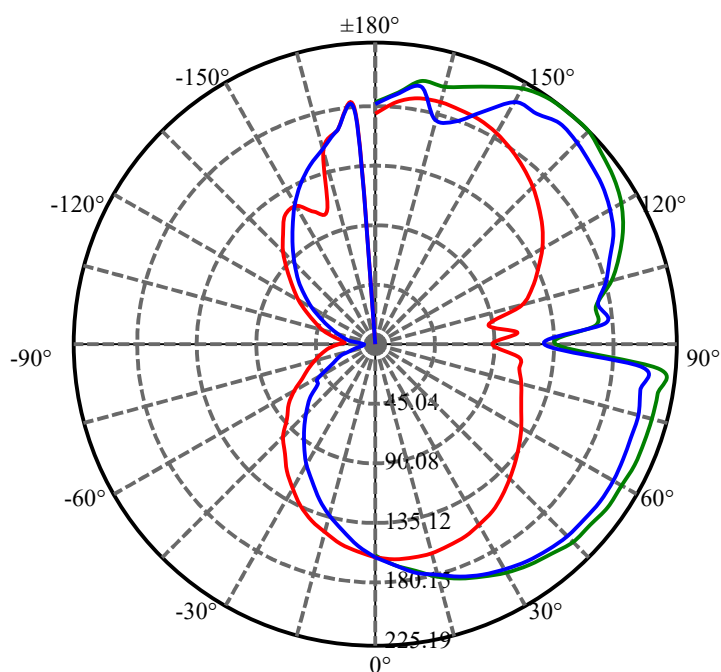
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	158.951	0.000	0	0.00%	0.00%
5.0	158.353	3.793	3.793	0.26%	0.26%
10.0	157.156	11.287	15.08	0.78%	1.05%
15.0	155.063	18.521	33.601	1.28%	2.33%
20.0	152.446	25.343	58.944	1.76%	4.09%
25.0	148.820	31.597	90.541	2.19%	6.28%
30.0	144.596	37.132	127.673	2.58%	8.85%
35.0	139.811	41.881	169.554	2.90%	11.76%
40.0	134.802	45.817	215.371	3.18%	14.94%
45.0	128.895	48.826	264.197	3.39%	18.32%
50.0	122.989	50.897	315.093	3.53%	21.85%
55.0	117.008	52.183	367.277	3.62%	25.47%
60.0	111.400	52.796	420.072	3.66%	29.13%
65.0	105.531	52.736	472.809	3.66%	32.79%
70.0	100.709	52.221	525.03	3.62%	36.41%
75.0	96.410	51.524	576.554	3.57%	39.99%
80.0	92.971	50.673	627.226	3.51%	43.50%
85.0	88.858	49.407	676.634	3.43%	46.93%
90.0	63.251	41.649	718.282	2.89%	49.82%
95.0	76.597	38.292	756.574	2.66%	52.47%
100.0	77.008	41.738	798.312	2.89%	55.37%
105.0	87.812	44.101	842.413	3.06%	58.43%
110.0	96.821	48.260	890.673	3.35%	61.77%
115.0	105.830	51.313	941.986	3.56%	65.33%
120.0	113.867	53.409	995.395	3.70%	69.04%
125.0	122.914	54.731	1050.126	3.80%	72.83%
130.0	131.362	55.288	1105.414	3.83%	76.67%
135.0	139.699	54.772	1160.186	3.80%	80.47%
140.0	146.540	52.999	1213.186	3.68%	84.14%
145.0	152.671	49.921	1263.107	3.46%	87.60%
150.0	157.568	45.685	1308.791	3.17%	90.77%
155.0	155.474	39.616	1348.407	2.75%	93.52%
160.0	152.857	32.338	1380.745	2.24%	95.76%
165.0	158.427	25.654	1406.399	1.78%	97.54%
170.0	174.091	19.725	1426.124	1.37%	98.91%
175.0	176.857	12.555	1438.679	0.87%	99.78%
180.0	88.522	3.173	1441.851	0.22%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	127.67	8.85%	8.85%
0-40	215.37	14.94%	14.94%
0-60	420.07	29.13%	29.13%
0-90	718.28	49.82%	49.82%
0-120	995.39	69.04%	69.04%
0-180	1441.85	100.00%	100.00%
60-90	298.21	20.68%	20.68%
90-120	277.11	19.22%	19.22%
90-130	387.13	26.85%	26.85%
90-150	590.51	40.95%	40.95%
90-180	720.40	49.96%	49.96%
0-134.39	1153.48	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	15.08
10-20	43.86
20-30	68.73
30-40	87.70
40-50	99.72
50-60	104.98
60-70	104.96
70-80	102.20
80-90	91.06
90-100	80.03
100-110	92.36
110-120	104.72
120-130	110.02
130-140	107.77
140-150	95.61
150-160	71.95
160-170	45.38
170-180	12.55



C60(Max):

C0/C180:

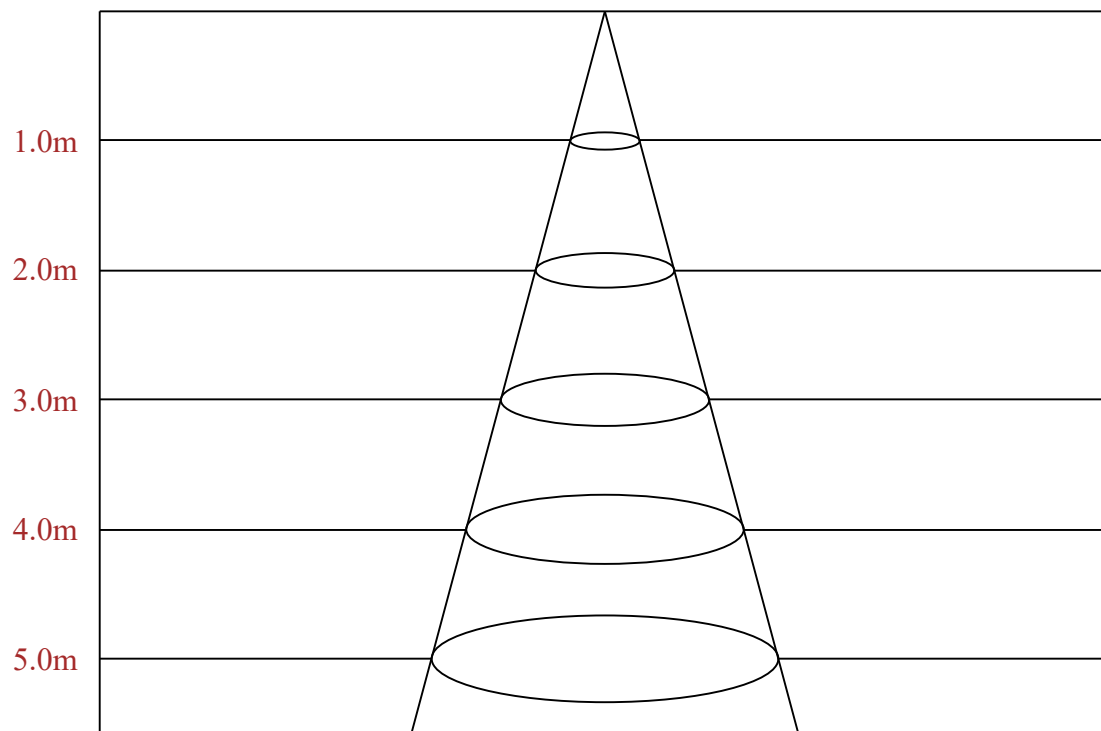
C90/C270:

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

:C90/270Left:0.0 Right:0.0

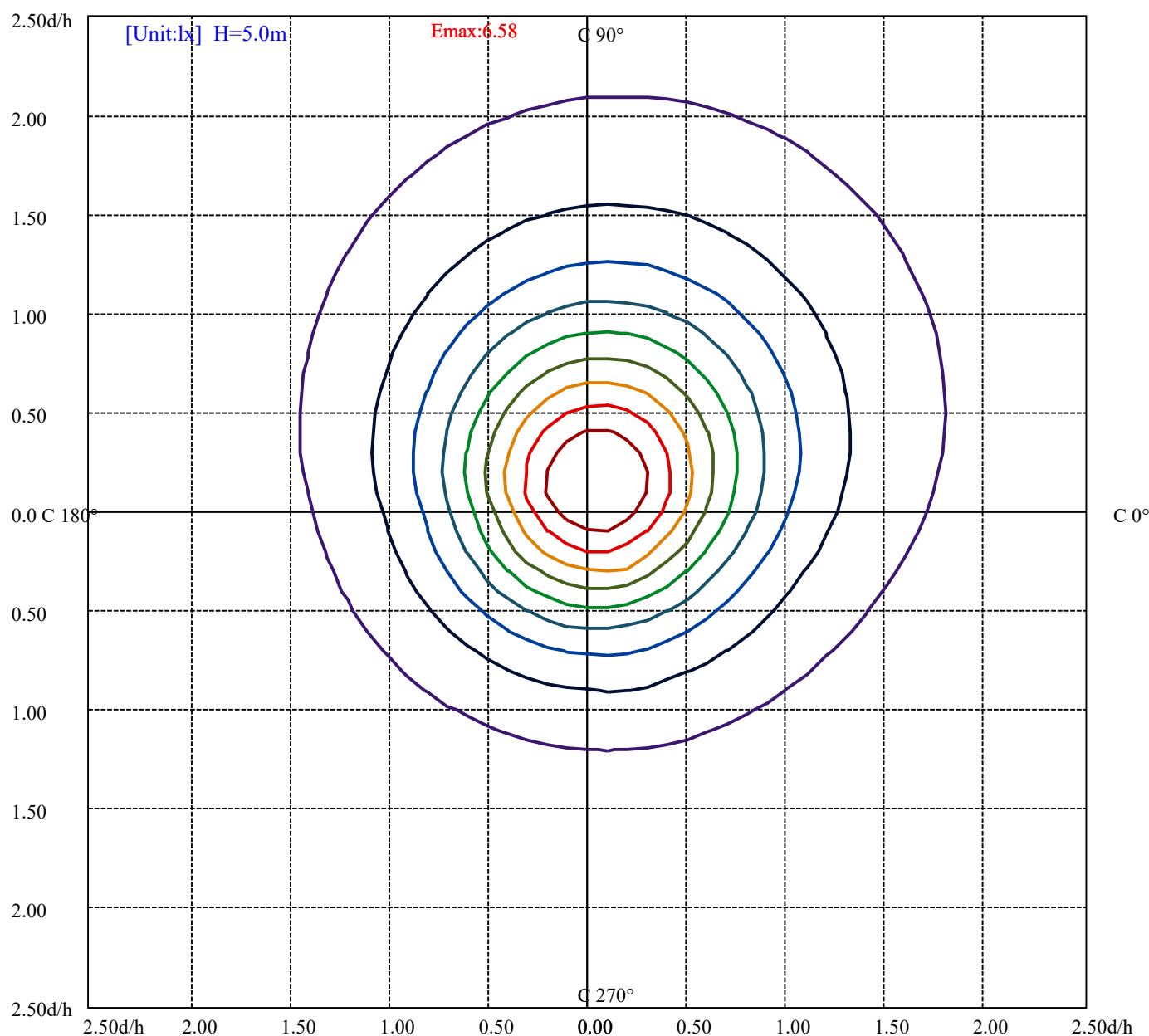
Beam Angle(50%Imax):C0/180Left:0.0 Right:0.0

:C90/270Left:0.0 Right:0.0

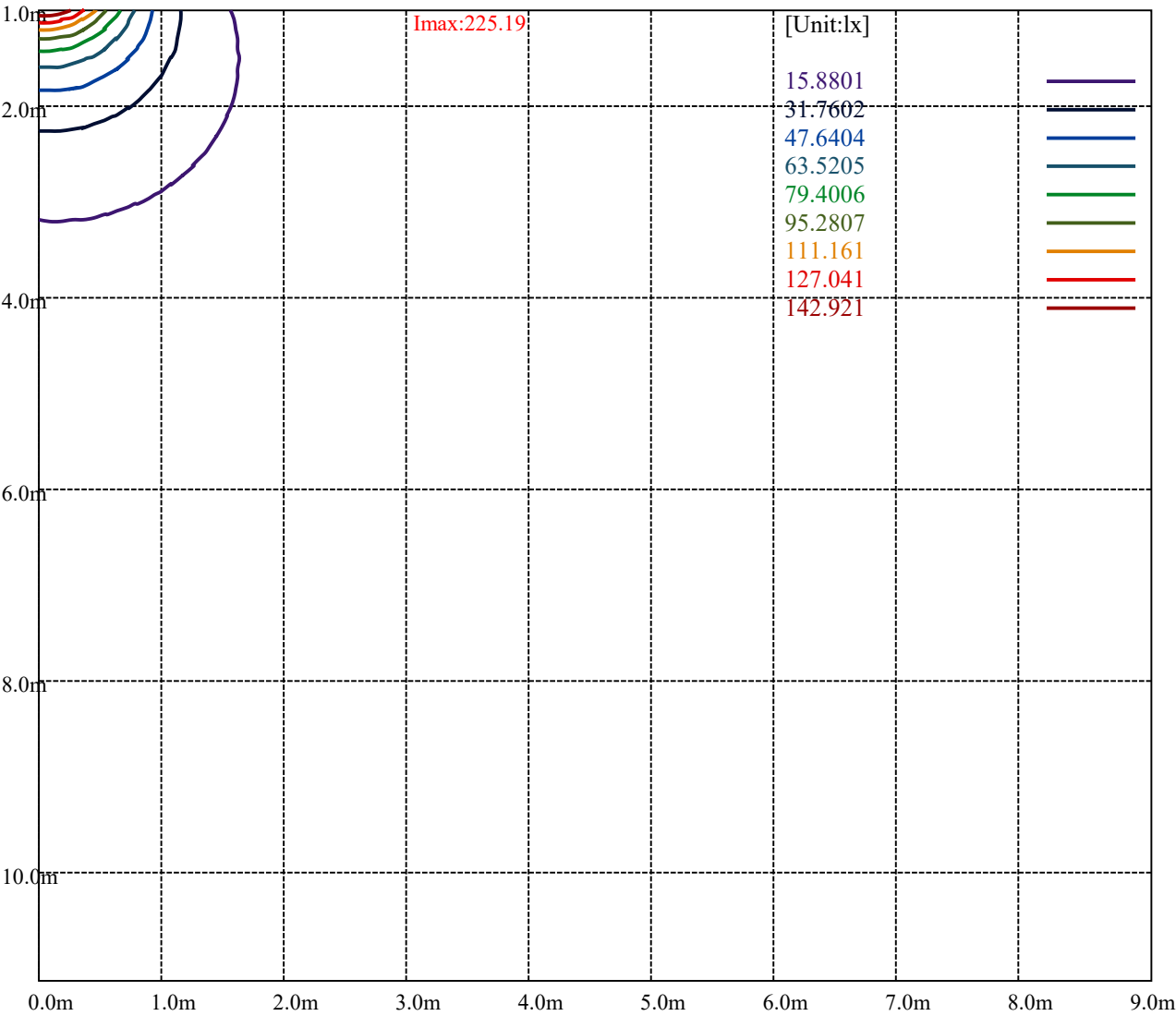


Max , Ave

Beam angle of C60 plane 223.54



(10%Emax) 0.6583641	—
(20%Emax) 1.316732	—
(30%Emax) 1.975096	—
(40%Emax) 2.63346	—
(50%Emax) 3.291828	—
(60%Emax) 3.950192	—
(70%Emax) 4.60856	—
(80%Emax) 5.26692	—
(90%Emax) 5.92528	—



Luminance Table

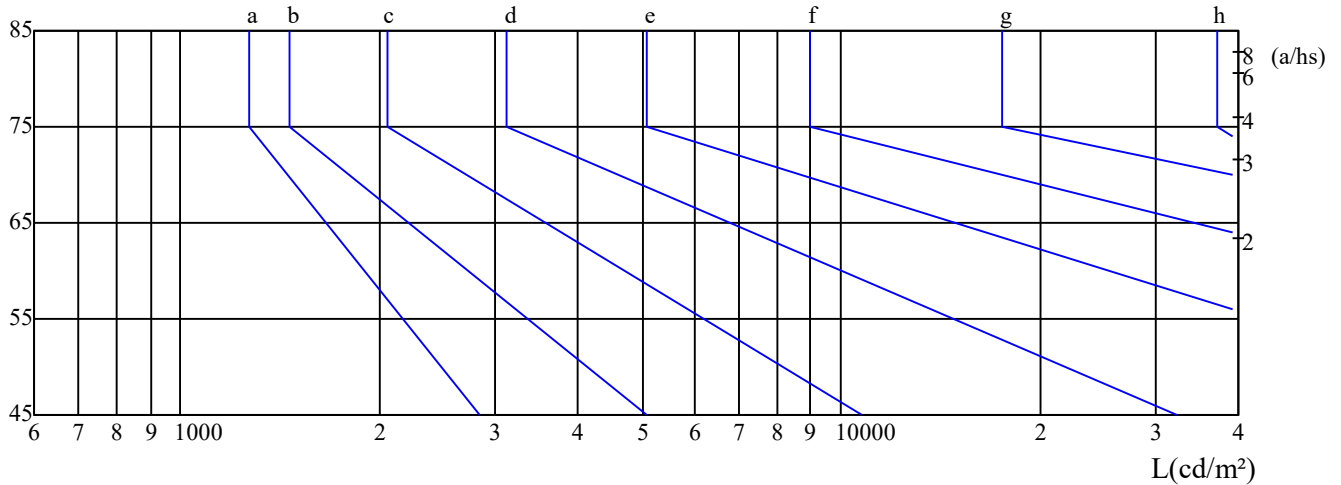
γ	45	50	55	60	65	70	75	80	85
C0	375	392	416	450	498	573	697	921	1422
C45	527	576	642	723	836	999	1248	1684	2620
C90	536	586	650	733	844	1008	1259	1692	2643

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
424	562	497	607	859	743	1618	2406	2048

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

 $\gamma(^{\circ})$ 

C0 ———

C45 ———

C90 ———

RHOC	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	0.99	0.99	0.99	0.83	0.83	0.83	0.69	0.69	0.69	0.56	0.56	0.56	0.50
1	0.89	0.84	0.80	0.82	0.78	0.74	0.68	0.65	0.62	0.56	0.54	0.51	0.45	0.43	0.41	0.36
2	0.76	0.69	0.63	0.70	0.64	0.58	0.58	0.53	0.49	0.48	0.44	0.41	0.38	0.35	0.33	0.28
3	0.66	0.58	0.51	0.61	0.53	0.47	0.51	0.45	0.40	0.41	0.37	0.33	0.33	0.29	0.27	0.22
4	0.58	0.49	0.42	0.53	0.45	0.39	0.44	0.38	0.33	0.36	0.32	0.28	0.29	0.25	0.22	0.18
5	0.51	0.42	0.36	0.47	0.39	0.33	0.39	0.33	0.28	0.32	0.27	0.24	0.26	0.22	0.19	0.16
6	0.46	0.37	0.31	0.42	0.34	0.29	0.35	0.29	0.24	0.29	0.24	0.20	0.23	0.19	0.16	0.13
7	0.41	0.33	0.27	0.38	0.30	0.25	0.32	0.26	0.21	0.26	0.21	0.18	0.21	0.17	0.14	0.12
8	0.37	0.29	0.23	0.34	0.27	0.22	0.29	0.23	0.19	0.24	0.19	0.16	0.19	0.15	0.13	0.10
9	0.34	0.26	0.21	0.31	0.24	0.19	0.26	0.21	0.17	0.22	0.17	0.14	0.18	0.14	0.11	0.09
10	0.31	0.23	0.18	0.29	0.22	0.17	0.24	0.19	0.15	0.20	0.16	0.12	0.16	0.13	0.10	0.08

弗格斯莱 OBRP32LAJUDLB

Intensity data(cd)										Appendix Page: 10 Total:12	
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	158.80	160.60	162.39	161.49	160.60	158.80	155.21	151.62	147.14		
15.0	157.90	162.39	165.08	167.77	169.57	169.57	169.57	167.77	166.88		
30.0	157.90	164.18	168.67	173.16	176.74	179.44	181.23	183.03	183.92		
45.0	157.90	165.08	171.36	177.64	182.13	187.51	191.10	193.79	197.38		
60.0	157.90	165.98	172.26	179.44	185.72	191.10	196.48	200.97	204.56		
75.0	157.90	165.98	173.16	180.33	186.61	192.89	197.38	201.87	205.45		
90.0	158.80	165.08	173.16	178.54	184.82	189.31	193.79	197.38	200.07		
105.0	158.80	165.08	171.36	175.85	180.33	183.92	186.61	188.41	189.31		
120.0	158.80	164.18	168.67	172.26	174.05	175.85	175.85	175.85	174.05		
135.0	162.39	163.29	165.98	166.88	166.88	165.98	164.18	161.49	157.01		
150.0	159.70	161.49	162.39	161.49	157.01	156.11	151.62	146.24	139.06		
165.0	160.60	159.70	157.90	155.21	151.62	145.34	139.96	132.78	122.91		
180.0	158.80	156.11	151.62	146.24	139.96	132.78	124.71	115.74	105.87		
195.0	157.90	153.42	147.14	140.86	132.78	124.71	115.74	105.87	96.90		
210.0	157.90	151.62	144.45	136.37	128.30	119.33	109.46	99.59	89.72		
225.0	157.90	149.83	141.75	133.68	123.81	114.84	104.97	95.10	85.23		
240.0	157.90	149.83	140.86	131.89	122.02	112.15	102.28	92.41	82.54		
255.0	157.90	149.83	140.86	130.99	122.02	112.15	102.28	91.51	81.64		
270.0	158.80	150.73	141.75	132.78	122.91	113.04	103.18	93.31	82.54		
285.0	158.80	150.73	143.55	134.58	125.61	116.63	106.76	96.00	94.20		
300.0	158.80	153.42	146.24	138.17	136.37	121.12	111.25	102.28	91.51		
315.0	162.39	155.21	149.83	142.65	135.47	127.40	118.43	109.46	100.48		
330.0	159.70	157.01	153.42	148.04	142.65	135.47	128.30	119.33	110.35		
345.0	160.60	159.70	157.90	155.21	150.73	146.24	139.96	133.68	126.50		
360.0	158.80	160.60	162.39	161.49	160.60	158.80	155.21	151.62	147.14		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	141.75	136.37	130.99	125.61	120.22	115.74	112.15	109.46	107.66		
15.0	164.18	161.49	158.80	156.11	152.52	149.83	148.04	145.34	140.86		
30.0	183.92	183.92	183.03	182.13	180.33	179.44	177.64	176.74	173.16		
45.0	199.17	200.07	201.87	201.87	201.87	201.87	200.97	200.07	198.28		
60.0	208.15	209.94	211.74	212.63	213.53	214.43	213.53	213.53	212.63		
75.0	209.04	210.84	212.63	214.43	214.43	215.32	215.32	214.43	213.53		
90.0	202.76	203.66	204.56	204.56	203.66	203.66	202.76	200.97	200.07		
105.0	190.20	189.31	188.41	187.51	185.72	183.92	181.23	179.44	177.64		
120.0	172.26	169.57	166.88	163.29	159.70	156.11	153.42	149.83	147.14		
135.0	151.62	147.14	140.86	135.47	130.09	124.71	121.12	117.53	113.94		
150.0	131.89	124.71	116.63	109.46	102.28	96.00	90.62	87.03	81.64		
165.0	115.74	106.76	96.90	87.92	80.75	72.67	67.29	61.01	53.83		
180.0	96.90	87.03	78.05	69.08	60.11	52.93	45.76	40.37	34.09		
195.0	87.03	77.16	67.29	57.42	48.45	40.37	33.20	26.92	21.53		
210.0	79.85	69.98	60.11	50.24	41.27	33.20	26.02	19.74	15.25		
225.0	74.47	65.49	54.73	45.76	36.78	28.71	21.53	15.25	9.87		
240.0	71.77	61.91	52.93	43.06	34.99	26.92	19.74	13.46	8.07		
255.0	70.88	61.01	52.04	42.17	34.09	26.02	18.84	17.94	8.97		
270.0	72.67	62.80	52.93	50.24	34.99	26.92	20.64	14.35	10.77		
285.0	76.26	66.39	56.52	47.55	38.58	30.50	24.22	18.84	15.25		
300.0	81.64	72.67	61.91	52.93	44.86	37.68	31.40	26.92	24.22		
315.0	90.62	80.75	70.88	61.91	53.83	48.45	43.06	39.48	36.78		
330.0	102.28	92.41	84.34	76.26	69.08	64.60	61.01	59.21	53.83		
345.0	118.43	110.35	103.18	96.00	90.62	87.03	84.34	83.44	73.57		
360.0	141.75	136.37	130.99	125.61	120.22	115.74	112.15	109.46	107.66		

弗格斯莱 OBRP32LAJUDLB

Intensity data(cd)										Appendix Page: 11 Total:12	
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0		
0.0	87.92	105.87	86.13	113.04	124.71	134.58	143.55	151.62	159.70		
15.0	113.04	136.37	113.04	140.86	154.32	165.08	171.36	180.33	186.61		
30.0	128.30	158.80	139.96	163.29	174.95	186.61	192.00	201.87	206.35		
45.0	128.30	170.46	157.90	174.95	187.51	198.28	206.35	213.53	218.02		
60.0	135.47	165.98	167.77	183.03	193.79	204.56	211.74	217.12	220.71		
75.0	139.06	179.44	176.74	185.72	193.79	204.56	209.94	214.43	217.12		
90.0	125.61	173.16	169.57	177.64	185.72	195.59	202.76	206.35	209.94		
105.0	109.46	135.47	139.96	150.73	157.90	166.88	173.16	177.64	183.92		
120.0	97.79	102.28	108.56	113.94	124.71	134.58	141.75	150.73	158.80		
135.0	78.05	88.82	78.95	85.23	97.79	104.97	112.15	122.91	131.89		
150.0	61.91	67.29	55.63	62.80	72.67	77.16	85.23	96.90	106.76		
165.0	40.37	43.96	34.99	43.06	52.04	56.52	67.29	77.16	87.92		
180.0	27.81	22.43	31.40	40.37	47.55	56.52	65.49	75.36	87.03		
195.0	16.15	15.25	26.02	33.20	39.48	49.35	58.32	67.29	78.95		
210.0	9.87	14.35	22.43	28.71	34.99	44.86	52.93	62.80	73.57		
225.0	7.18	13.46	18.84	26.02	33.20	41.27	43.96	60.11	69.98		
240.0	7.18	11.66	13.46	25.12	32.30	40.37	49.35	59.21	69.98		
255.0	7.18	12.56	17.94	25.12	33.20	41.27	50.24	60.11	70.88		
270.0	8.97	14.35	20.64	27.81	35.89	44.86	54.73	64.60	74.47		
285.0	12.56	20.64	26.92	34.09	42.17	51.14	61.01	70.88	81.64		
300.0	18.84	29.61	34.99	42.17	51.14	60.11	69.98	80.75	90.62		
315.0	30.50	41.27	48.45	55.63	63.70	72.67	82.54	93.31	104.07		
330.0	49.35	51.14	68.19	75.36	82.54	91.51	101.38	110.35	121.12		
345.0	77.16	63.70	89.72	99.59	107.66	116.63	125.61	134.58	142.65		
360.0	87.92	105.87	86.13	113.04	124.71	134.58	143.55	151.62	159.70		
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	165.98	172.26	177.64	182.13	184.82	186.61	186.61	185.72	182.13		
15.0	191.10	195.59	198.28	199.17	199.17	197.38	194.69	191.10	185.72		
30.0	209.94	212.63	213.53	211.74	209.94	205.45	200.97	194.69	187.51		
45.0	221.60	222.50	221.60	219.81	214.43	209.04	202.76	197.38	189.31		
60.0	225.19	225.19	224.30	219.81	211.74	204.56	199.17	199.17	189.31		
75.0	221.60	221.60	218.91	215.32	202.76	192.00	188.41	197.38	189.31		
90.0	213.53	214.43	210.84	209.04	191.10	176.74	174.05	194.69	187.51		
105.0	189.31	192.89	190.20	190.20	173.16	156.11	153.42	188.41	184.82		
120.0	166.88	171.36	171.36	173.16	151.62	135.47	130.99	178.54	181.23		
135.0	141.75	148.93	152.52	157.01	139.06	115.74	112.15	166.88	174.95		
150.0	118.43	127.40	133.68	140.86	126.50	103.18	91.51	156.11	165.98		
165.0	99.59	110.35	118.43	127.40	116.63	94.20	81.64	142.65	160.60		
180.0	97.79	106.76	116.63	118.43	108.56	106.76	149.83	162.39	171.36		
195.0	88.82	98.69	108.56	113.94	111.25	111.25	148.93	162.39	171.36		
210.0	83.44	86.13	104.07	112.15	115.74	122.02	149.83	160.60	171.36		
225.0	80.75	91.51	102.28	112.15	120.22	129.19	148.93	159.70	170.46		
240.0	79.85	90.62	102.28	113.94	123.81	134.58	148.93	159.70	170.46		
255.0	81.64	93.31	104.97	115.74	127.40	138.17	149.83	159.70	170.46		
270.0	85.23	96.00	107.66	119.33	130.99	141.75	151.62	161.49	170.46		
285.0	92.41	103.18	113.94	124.71	136.37	146.24	155.21	164.18	171.36		
300.0	101.38	112.15	122.91	133.68	143.55	152.52	160.60	167.77	173.16		
315.0	113.94	124.71	134.58	143.55	152.52	160.60	166.88	171.36	174.95		
330.0	130.99	139.96	148.93	157.01	164.18	169.57	174.05	176.74	175.85		
345.0	151.62	158.80	165.98	171.36	175.85	179.44	181.23	179.44	174.95		
360.0	165.98	172.26	177.64	182.13	184.82	186.61	186.61	185.72	182.13		

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	172.26
15.0	178.54
30.0	179.44
45.0	179.44
60.0	180.33
75.0	179.44
90.0	179.44
105.0	178.54
120.0	178.54
135.0	176.74
150.0	173.16
165.0	168.67
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	172.26