
乐达凯

Client:

LumCAT: BRIP04LAJUDPC-3000K

Luminaire: LED LAMP

Report No:

Ballast type:

Test No: LCZP25120109

Voltage(V): 120.040

LampCAT:

Current(A): 0.121

Lamp flux(lm): 1447.3

Power (W): 14.330

Number of Lamps: 1

PF: 0.987

Length(mm): -90

Width(mm): -90

Phm Type: C

Height(mm): 375

Photometric Results

Lumens(lm): 1447.34, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 101.00

Central intensity(cd): 15.162, Maximum intensity(cd): 163.377

Angle of maximum intensity: C=0.0 γ =85.0

Beam Angle(50%Imax): [C0/180]Total=276.0

[C90/270]Total=276.8

Field angle(10%Imax): [C0/180]Total=338.2

[C90/270]Total=345.2

Maximum s/h(1/2): C0_180=5.06 C90_270=3.54

Maximum s/h(1/4): C0_180=4.74 C90_270=3.52

Up flux rate of lamp(%): 48.63%

Down flux rate of lamp(%): 51.37%

Up flux rate of LUM(%): 48.63%

Down flux rate of LUM(%): 51.37%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 18.667%

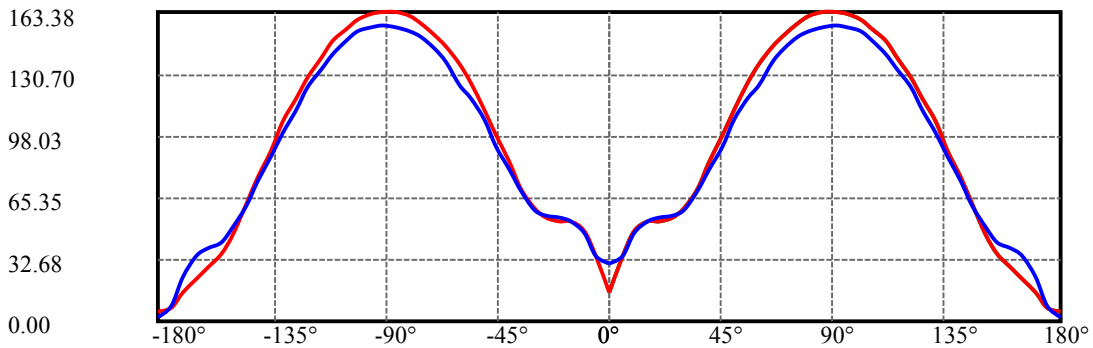
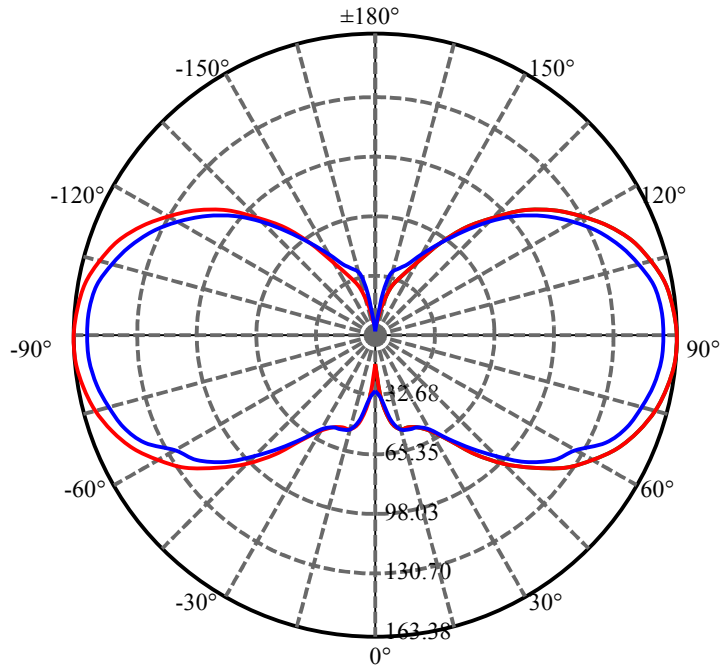
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	25.704	0.000	0	0.00%	0.00%
5.0	33.570	0.709	0.709	0.05%	0.05%
10.0	46.268	2.856	3.565	0.20%	0.25%
15.0	52.276	5.846	9.41	0.40%	0.65%
20.0	53.857	8.747	18.157	0.60%	1.25%
25.0	55.087	11.426	29.583	0.79%	2.04%
30.0	59.797	14.539	44.122	1.00%	3.05%
35.0	69.233	19.001	63.123	1.31%	4.36%
40.0	81.333	25.121	88.243	1.74%	6.10%
45.0	95.146	32.677	120.92	2.26%	8.35%
50.0	108.477	41.145	162.065	2.84%	11.20%
55.0	120.723	49.836	211.901	3.44%	14.64%
60.0	131.370	58.271	270.171	4.03%	18.67%
65.0	140.484	66.088	336.259	4.57%	23.23%
70.0	147.515	72.923	409.183	5.04%	28.27%
75.0	152.962	78.540	487.723	5.43%	33.70%
80.0	156.820	82.889	570.612	5.73%	39.42%
85.0	158.902	85.789	656.401	5.93%	45.35%
90.0	159.366	87.144	743.545	6.02%	51.37%
95.0	158.005	86.899	830.444	6.00%	57.38%
100.0	155.448	85.173	915.616	5.88%	63.26%
105.0	150.831	81.952	997.568	5.66%	68.92%
110.0	144.413	77.172	1074.74	5.33%	74.26%
115.0	136.024	71.008	1145.749	4.91%	79.16%
120.0	126.439	63.805	1209.554	4.41%	83.57%
125.0	114.473	55.686	1265.24	3.85%	87.42%
130.0	101.554	46.971	1312.211	3.25%	90.66%
135.0	87.928	38.287	1350.499	2.65%	93.31%
140.0	74.384	30.053	1380.552	2.08%	95.39%
145.0	60.164	22.448	1403	1.55%	96.94%
150.0	48.448	15.994	1418.994	1.11%	98.04%
155.0	39.439	11.122	1430.116	0.77%	98.81%
160.0	33.891	7.691	1437.807	0.53%	99.34%
165.0	29.125	5.193	1443.001	0.36%	99.70%
170.0	21.648	3.012	1446.012	0.21%	99.91%
175.0	10.837	1.162	1447.175	0.08%	99.99%
180.0	3.114	0.167	1447.341	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	44.12	3.05%	3.05%
0-40	88.24	6.10%	6.10%
0-60	270.17	18.67%	18.67%
0-90	743.55	51.37%	51.37%
0-120	1209.55	83.57%	83.57%
0-180	1447.34	100.00%	100.00%
60-90	473.37	32.71%	32.71%
90-120	466.01	32.20%	32.20%
90-130	568.67	39.29%	39.29%
90-150	675.45	46.67%	46.67%
90-180	703.63	48.62%	48.62%
0-115.95	1157.87	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	3.56
10-20	14.59
20-30	25.96
30-40	44.12
40-50	73.82
50-60	108.11
60-70	139.01
70-80	161.43
80-90	172.93
90-100	172.07
100-110	159.12
110-120	134.81
120-130	102.66
130-140	68.34
140-150	38.44
150-160	18.81
160-170	8.21
170-180	1.16



C0(Max): —————

C0/C180: —————

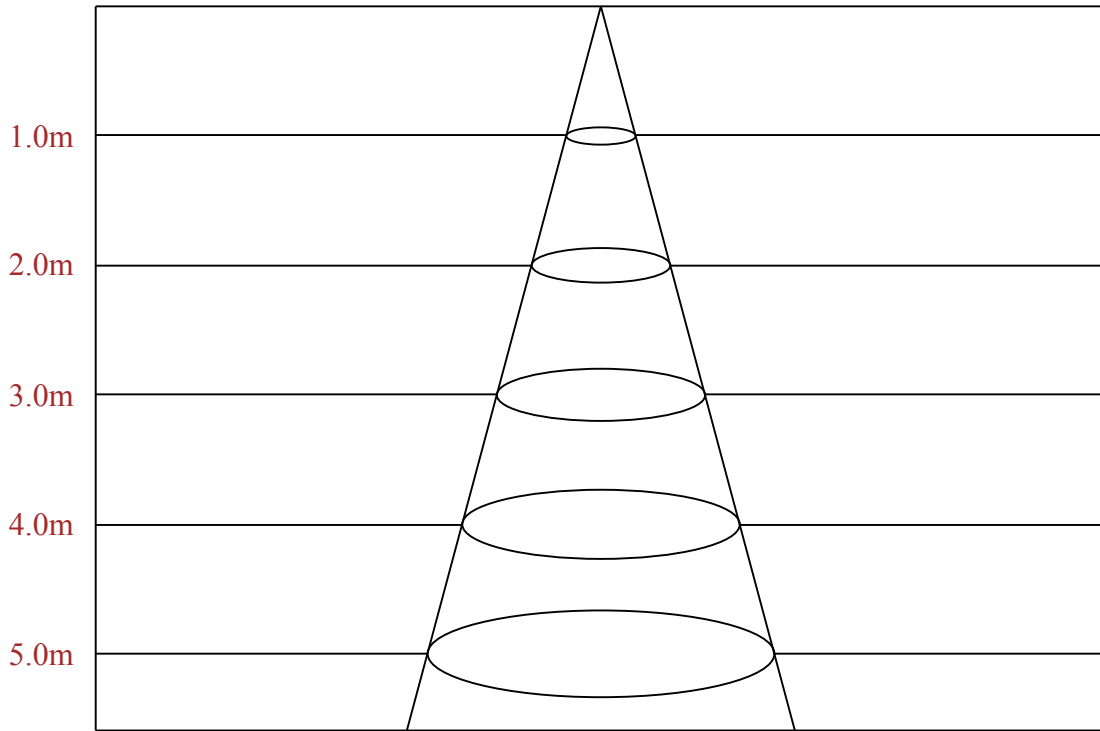
C90/C270: —————

Field angle(10%Imax):C0/180Left:254.1 Right:84.1

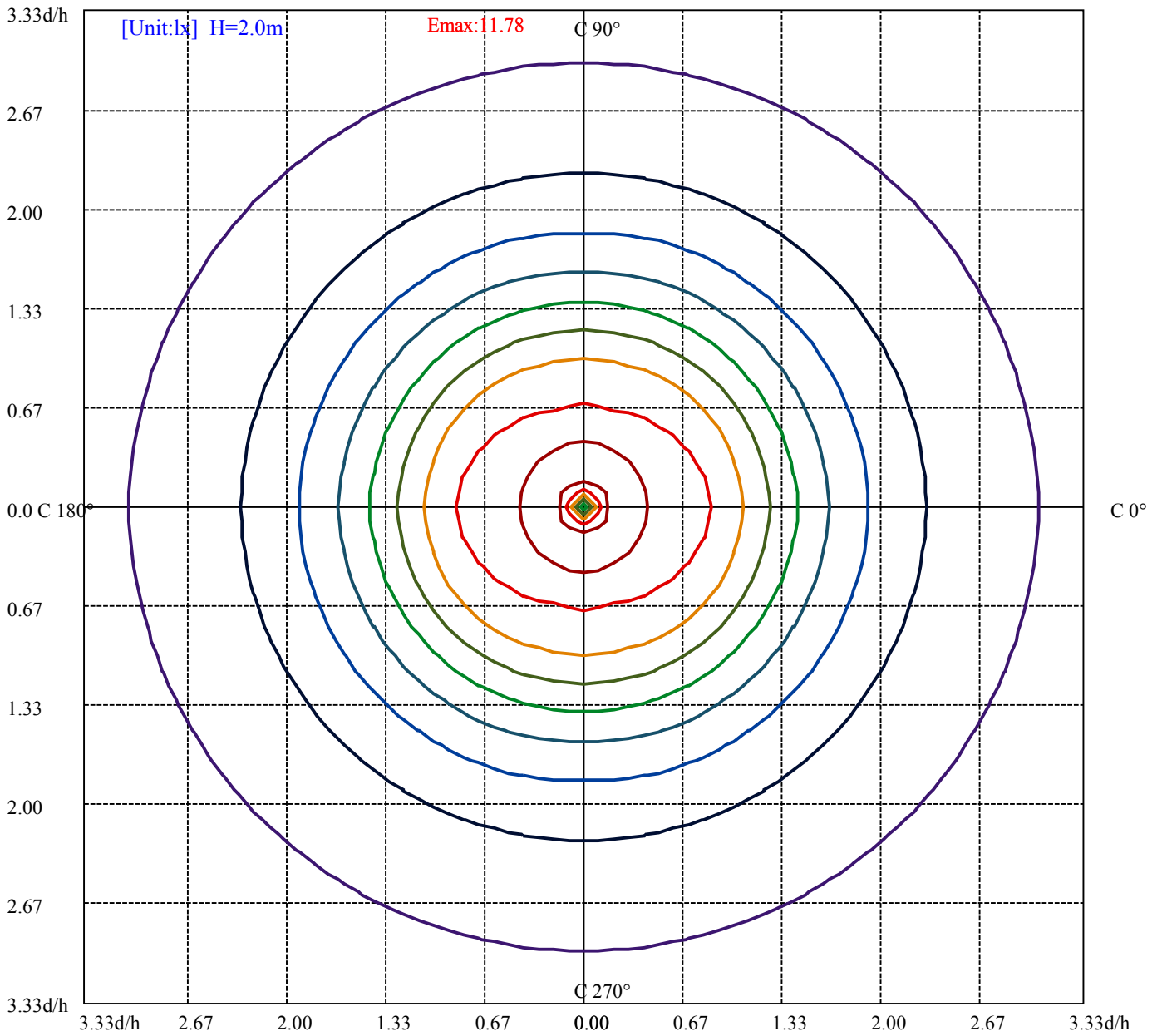
:C90/270Left:262.6 Right:82.6

Beam Angle(50%Imax):C0/180Left:223.0 Right:53.0

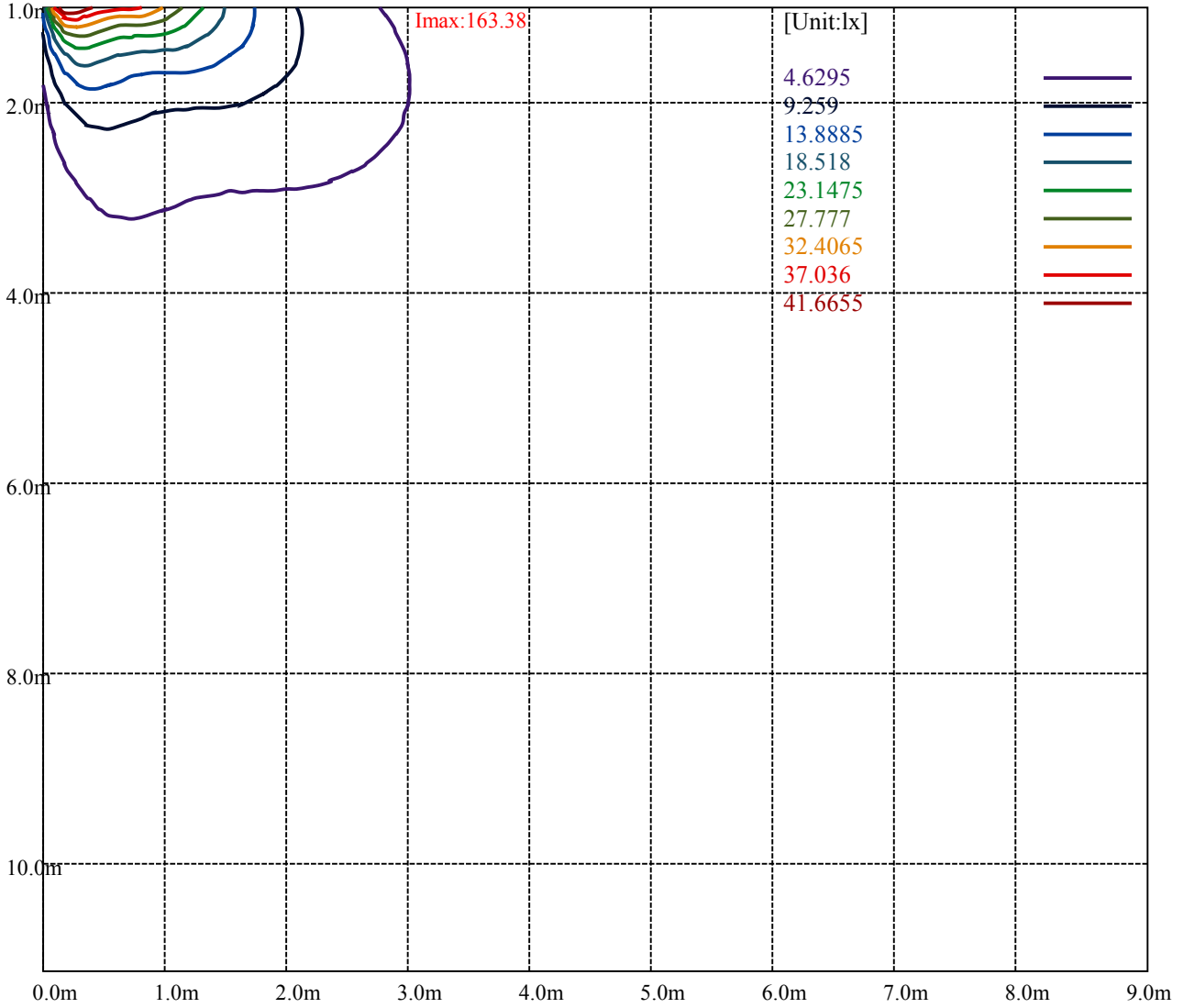
:C90/270Left:228.4 Right:48.4



Max , Ave Beam angle of C0 plane 336.68



- (10%Emax) 1.177855
- (20%Emax) 2.35571
- (30%Emax) 3.533575
- (40%Emax) 4.711425
- (50%Emax) 5.889275
- (60%Emax) 7.067125
- (70%Emax) 8.244975
- (80%Emax) 9.42285
- (90%Emax) 10.6007



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Luminance Limiting Curve(no luminous side)

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Luminance Table

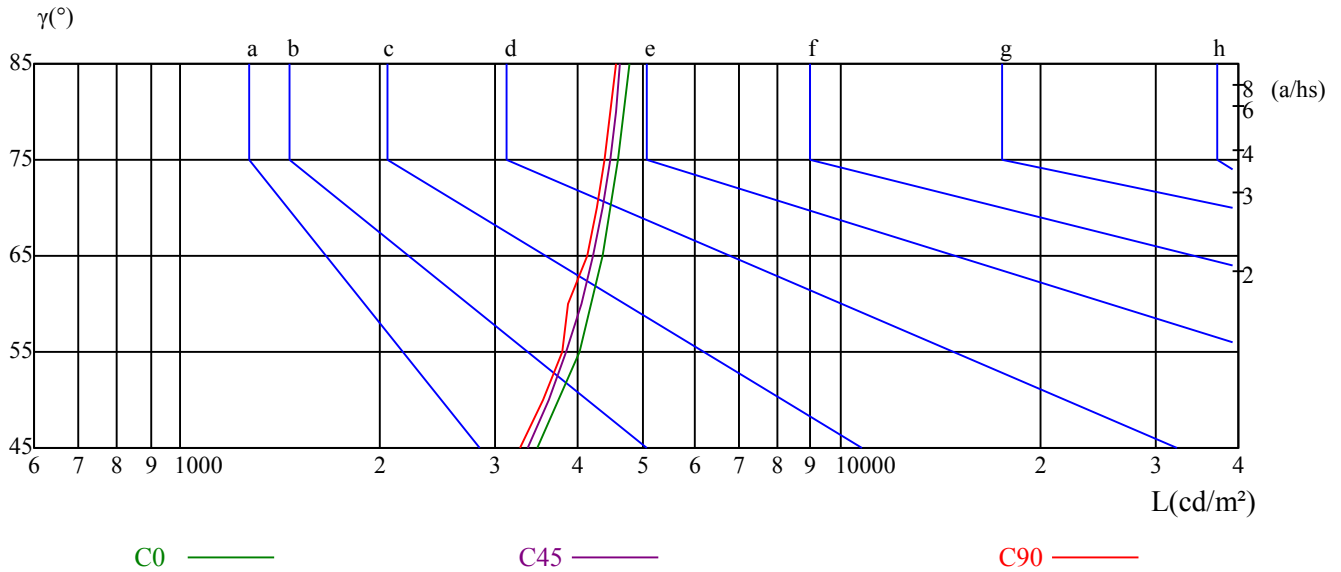
γ	45	50	55	60	65	70	75	80	85
C0	3470	3738	4008	4191	4350	4471	4587	4689	4780
C45	3352	3621	3849	4056	4219	4352	4461	4567	4643
C90	3272	3546	3777	3858	4129	4265	4380	4477	4555

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
53843	51106	52224	95410	91106	92795	294659	280743	286204

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	0.99	0.99	0.99	0.84	0.84	0.84	0.70	0.70	0.70	0.57	0.57	0.57	0.51
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	0.51	0.53	0.47	0.42	0.43	0.38	0.34	0.33	0.29	0.26	0.21
3	0.60	0.51	0.43	0.55	0.46	0.40	0.45	0.38	0.33	0.36	0.30	0.26	0.27	0.23	0.20	0.15
4	0.52	0.42	0.35	0.48	0.39	0.32	0.39	0.32	0.26	0.31	0.25	0.21	0.23	0.19	0.15	0.11
5	0.46	0.36	0.29	0.42	0.33	0.26	0.34	0.27	0.22	0.27	0.21	0.17	0.20	0.16	0.12	0.09
6	0.41	0.31	0.24	0.37	0.28	0.22	0.30	0.23	0.18	0.24	0.18	0.14	0.18	0.14	0.10	0.07
7	0.36	0.27	0.21	0.33	0.25	0.19	0.27	0.20	0.15	0.21	0.16	0.12	0.16	0.12	0.09	0.06
8	0.33	0.24	0.18	0.30	0.22	0.16	0.24	0.18	0.13	0.19	0.14	0.10	0.15	0.11	0.07	0.05
9	0.30	0.21	0.15	0.27	0.19	0.14	0.22	0.16	0.12	0.18	0.13	0.09	0.14	0.09	0.06	0.04
10	0.27	0.19	0.14	0.25	0.17	0.12	0.20	0.14	0.10	0.16	0.11	0.08	0.12	0.09	0.06	0.04

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	15.16	30.32	45.04	51.41	53.02	55.36	60.74	70.16	83.44
15.0	16.96	29.97	44.05	49.97	51.68	54.10	59.75	69.53	82.54
30.0	20.55	29.61	42.89	48.99	50.87	53.38	58.86	67.92	80.39
45.0	23.06	27.18	41.90	48.36	50.42	52.31	57.33	65.05	77.97
60.0	25.39	24.85	40.37	48.18	49.88	50.42	53.47	62.17	74.38
75.0	28.53	23.60	38.85	47.37	49.08	48.90	50.15	58.77	70.61
90.0	30.15	20.99	36.78	46.38	48.72	47.55	48.00	56.16	67.56
105.0	32.48	19.29	35.26	45.40	48.18	46.38	46.03	53.47	64.24
120.0	32.93	16.69	33.91	44.77	48.00	46.03	45.94	51.86	62.89
135.0	15.97	14.44	34.09	44.95	48.81	47.46	47.19	52.84	63.61
150.0	34.00	12.74	34.54	45.85	49.43	49.17	50.24	55.89	65.76
165.0	33.29	12.20	35.44	47.01	51.32	51.05	52.75	57.69	68.10
180.0	15.16	39.57	50.33	53.47	53.29	54.82	59.75	70.70	85.41
195.0	16.96	40.10	51.14	54.19	53.38	55.00	59.84	69.80	84.96
210.0	20.55	41.90	51.86	55.98	55.54	56.43	60.92	71.33	84.87
225.0	23.06	43.06	53.56	58.14	58.50	59.03	64.24	75.36	87.39
240.0	25.39	45.13	54.46	59.30	59.93	61.19	68.10	78.05	90.17
255.0	28.53	46.47	55.98	60.11	60.20	61.82	68.99	79.22	91.42
270.0	30.15	48.18	56.43	59.84	60.47	63.07	69.71	80.84	93.58
285.0	32.48	48.45	56.52	59.39	60.56	63.52	69.62	81.11	84.07
300.0	32.93	48.36	56.07	58.14	58.59	62.09	70.07	82.00	95.55
315.0	15.97	48.54	54.82	57.06	59.12	61.01	70.88	82.63	97.16
330.0	34.00	47.55	53.74	56.16	57.60	61.10	71.15	83.98	97.70
345.0	33.29	46.47	52.40	54.19	55.98	60.92	71.42	85.05	98.24
360.0	15.16	30.32	45.04	51.41	53.02	55.36	60.74	70.16	83.44
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	96.90	110.35	123.00	133.50	142.83	149.83	155.75	160.60	163.56
15.0	95.46	108.56	120.67	132.07	141.22	149.02	154.49	159.97	162.66
30.0	93.40	106.50	118.88	130.54	138.97	146.87	153.60	158.08	160.78
45.0	90.97	103.53	115.83	127.04	136.19	143.91	151.18	155.30	158.17
60.0	87.48	101.02	113.49	124.35	133.68	142.11	148.57	153.69	157.10
75.0	83.08	96.00	109.10	119.41	128.93	137.72	144.98	149.56	152.97
90.0	80.57	94.38	107.03	117.71	127.31	136.10	142.74	147.50	151.35
105.0	78.41	93.13	105.42	117.35	126.50	135.30	142.38	147.50	151.09
120.0	77.61	92.68	105.33	117.26	127.31	135.47	142.92	147.77	151.89
135.0	79.22	94.20	107.03	119.24	129.64	137.90	144.89	150.37	154.41
150.0	80.93	95.10	108.65	121.30	131.80	140.05	146.69	152.34	156.11
165.0	81.46	95.73	109.55	123.00	134.04	142.56	149.29	154.94	158.26
180.0	99.95	113.49	127.85	138.17	146.69	153.24	158.44	161.49	163.20
195.0	97.61	112.06	125.16	136.82	145.70	151.53	157.01	159.16	160.86
210.0	98.51	112.33	124.08	136.64	144.81	151.71	155.75	158.53	159.70
225.0	100.48	113.40	125.87	136.55	145.25	152.43	155.39	158.35	158.26
240.0	102.28	113.94	127.13	136.73	145.61	152.43	155.93	158.44	158.53
255.0	103.09	115.92	127.67	137.81	146.60	152.34	155.93	156.74	158.62
270.0	105.06	117.98	129.37	132.33	147.50	152.97	157.28	159.97	159.97
285.0	108.29	119.95	131.17	141.40	149.02	154.49	158.17	161.67	161.76
300.0	109.01	121.57	132.60	142.65	149.47	154.85	158.80	162.66	163.29
315.0	109.64	122.56	133.05	143.01	150.55	155.75	159.70	163.29	163.92
330.0	111.34	124.35	134.31	144.09	150.91	155.75	160.24	162.75	163.65
345.0	112.78	124.71	135.12	143.91	151.09	156.02	160.95	163.02	163.56
360.0	96.90	110.35	123.00	133.50	142.83	149.83	155.75	160.60	163.56

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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	164.27	163.38	161.58	157.72	151.44	143.55	133.14	123.00	110.53
15.0	163.29	163.38	161.94	158.98	152.25	143.73	133.77	122.91	111.16
30.0	161.49	161.76	160.06	157.90	152.16	143.28	134.22	123.09	111.79
45.0	158.89	158.98	157.81	155.48	150.19	141.84	132.42	121.30	110.08
60.0	158.44	157.99	157.19	153.96	148.66	141.04	131.62	121.48	110.17
75.0	154.67	154.94	153.78	150.37	144.72	137.72	129.10	118.61	107.39
90.0	153.69	154.23	153.33	149.47	143.82	137.00	129.28	118.61	107.66
105.0	153.33	153.87	153.24	149.47	144.09	137.36	130.09	119.50	107.57
120.0	154.85	155.03	153.96	149.83	145.07	138.70	130.54	120.76	108.56
135.0	157.01	156.83	155.21	152.07	147.77	142.02	133.50	122.11	109.19
150.0	159.16	158.35	156.65	153.78	150.10	145.61	139.96	131.89	112.60
165.0	160.69	159.43	157.99	155.12	150.19	144.27	135.65	125.16	112.96
180.0	162.21	160.78	157.19	151.62	144.54	135.38	124.62	112.15	99.59
195.0	160.24	158.35	155.12	150.01	142.38	134.04	123.27	110.71	97.34
210.0	159.07	157.55	153.96	148.57	141.22	132.69	122.02	109.99	96.45
225.0	158.26	156.02	152.61	147.14	139.96	131.17	128.21	107.57	94.74
240.0	158.44	155.93	154.85	146.33	138.97	129.91	119.15	106.14	93.40
255.0	157.90	155.21	151.44	145.52	137.54	128.30	117.26	105.33	92.14
270.0	158.89	156.38	152.61	146.33	138.79	129.10	117.98	105.24	91.78
285.0	160.69	157.90	153.96	148.21	139.87	128.93	117.62	103.45	89.81
300.0	161.58	158.17	153.33	148.04	140.59	129.37	116.63	103.45	89.45
315.0	162.21	158.44	153.33	147.77	140.05	129.73	116.72	104.61	91.06
330.0	162.66	159.07	154.41	147.86	140.23	129.55	117.80	104.07	90.71
345.0	162.84	160.15	155.21	148.39	141.31	130.27	119.95	106.23	91.15
360.0	164.27	163.38	161.58	157.72	151.44	143.55	133.14	123.00	110.53
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	95.01	79.04	61.10	40.19	25.93	15.70	5.47	1.08	0.99
15.0	96.00	80.12	62.17	46.12	31.22	20.28	11.21	4.31	1.35
30.0	98.06	80.93	64.15	49.88	36.25	25.93	17.41	10.32	3.41
45.0	97.34	81.55	65.85	51.14	39.03	30.32	24.67	18.03	7.09
60.0	97.25	83.08	68.19	54.64	43.42	36.16	30.50	22.88	10.05
75.0	96.09	82.99	70.34	56.07	44.32	36.69	32.21	23.06	9.96
90.0	95.73	83.71	70.43	57.06	44.50	37.86	32.93	24.58	11.84
105.0	95.82	84.16	70.88	56.88	44.14	38.76	36.16	30.77	19.65
120.0	97.16	84.34	70.07	56.25	44.68	39.92	38.04	35.62	27.01
135.0	96.45	81.64	68.28	54.55	43.42	39.83	38.49	36.43	28.62
150.0	99.41	85.05	72.04	59.57	48.72	42.53	39.57	37.68	28.98
165.0	100.39	86.04	73.48	62.71	50.69	44.41	41.27	39.21	30.95
180.0	84.96	73.21	61.91	51.50	44.95	42.08	38.94	29.16	13.82
195.0	83.98	72.40	61.10	50.78	43.96	43.15	38.94	28.98	12.47
210.0	83.08	80.30	59.39	49.08	42.98	40.82	39.21	28.62	12.74
225.0	81.82	70.16	57.78	48.36	42.17	40.10	37.86	26.56	11.21
240.0	79.49	67.92	55.18	45.13	40.19	38.40	35.98	25.84	9.96
255.0	78.77	65.94	52.66	44.05	39.83	38.04	35.53	23.87	7.18
270.0	78.41	63.88	51.59	43.06	39.66	38.67	35.35	22.34	5.20
285.0	74.47	60.74	49.08	42.62	40.01	39.12	33.82	19.47	3.32
300.0	72.49	59.57	46.83	41.45	38.31	34.99	28.08	14.89	1.44
315.0	76.08	61.28	47.10	40.10	34.18	26.65	17.32	9.51	1.08
330.0	76.62	59.48	44.77	33.82	26.02	15.70	8.25	4.93	0.90
345.0	75.36	57.69	39.57	27.72	17.94	7.27	1.79	1.44	0.90
360.0	95.01	79.04	61.10	40.19	25.93	15.70	5.47	1.08	0.99

Intensity data(cd)

C/γ(°)	180.0
0.0	10.77
15.0	0.99
30.0	0.90
45.0	0.99
60.0	0.99
75.0	1.17
90.0	3.23
105.0	5.92
120.0	8.88
135.0	11.75
150.0	13.91
165.0	15.25
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	10.77