
乐达凯

Client:

LumCAT: BRQP32LAJUDLB

Luminaire: LED LAMP

Report No:

Ballast type:

Test No: LCZP25120116

Voltage(V): 119.990

LampCAT:

Current(A): 0.247

Lamp flux(lm): 3058.1

Power (W): 29.300

Number of Lamps: 1

PF: 0.990

Length(mm): -140

Width(mm): -140

Phm Type: C

Height(mm): 600

Photometric Results

Lumens(lm): 3058.05, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 104.37

Central intensity(cd): 85.243, Maximum intensity(cd): 272.713

Angle of maximum intensity: C=0.0 γ =80.0

Beam Angle(50%Imax): [C0/180]Total=326.2

[C90/270]Total=322.0

Field angle(10%Imax): [C0/180]Total=357.6

[C90/270]Total=350.4

Maximum s/h(1/2): C0_180=3.12 C90_270=2.99

Maximum s/h(1/4): C0_180=2.99 C90_270=2.89

Up flux rate of lamp(%): 48.26%

Down flux rate of lamp(%): 51.74%

Up flux rate of LUM(%): 48.26%

Down flux rate of LUM(%): 51.74%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 24.529%

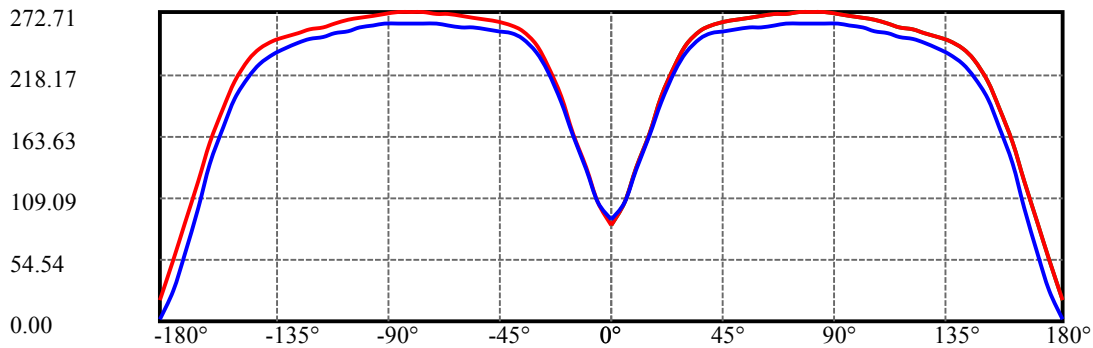
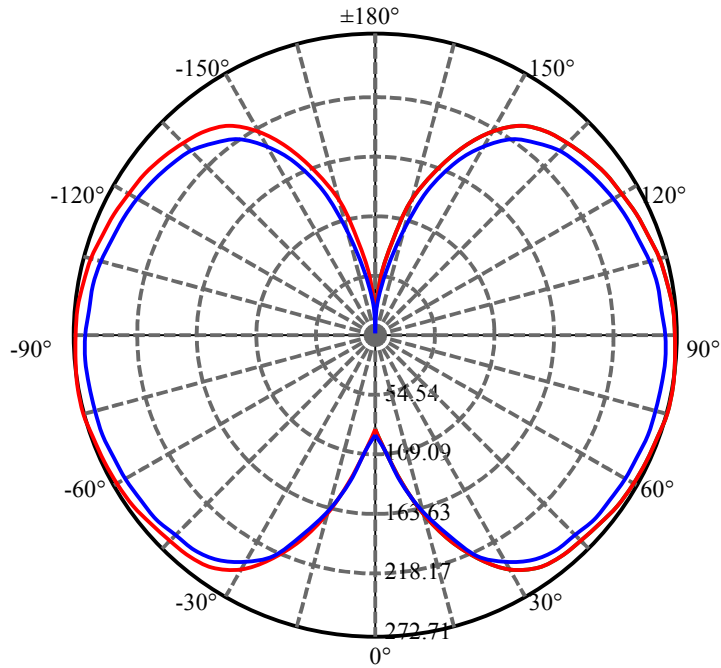
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	88.286	0.000	0	0.00%	0.00%
5.0	104.671	2.307	2.307	0.08%	0.08%
10.0	133.738	8.529	10.835	0.28%	0.35%
15.0	164.224	17.675	28.51	0.58%	0.93%
20.0	194.486	29.563	58.073	0.97%	1.90%
25.0	220.195	43.492	101.565	1.42%	3.32%
30.0	238.246	58.016	159.582	1.90%	5.22%
35.0	249.971	71.893	231.475	2.35%	7.57%
40.0	255.367	84.312	315.787	2.76%	10.33%
45.0	257.929	95.041	410.828	3.11%	13.43%
50.0	259.917	104.638	515.466	3.42%	16.86%
55.0	261.602	113.396	628.862	3.71%	20.56%
60.0	262.900	121.237	750.099	3.96%	24.53%
65.0	264.061	128.105	878.204	4.19%	28.72%
70.0	264.953	133.950	1012.154	4.38%	33.10%
75.0	265.556	138.666	1150.82	4.53%	37.63%
80.0	265.662	142.139	1292.959	4.65%	42.28%
85.0	265.336	144.285	1437.244	4.72%	47.00%
90.0	264.463	145.063	1582.307	4.74%	51.74%
95.0	263.029	144.431	1726.739	4.72%	56.47%
100.0	261.192	142.443	1869.182	4.66%	61.12%
105.0	258.779	139.130	2008.312	4.55%	65.67%
110.0	256.240	134.618	2142.929	4.40%	70.08%
115.0	253.455	129.058	2271.987	4.22%	74.30%
120.0	250.594	122.535	2394.522	4.01%	78.30%
125.0	247.327	115.093	2509.615	3.76%	82.07%
130.0	243.589	106.741	2616.357	3.49%	85.56%
135.0	238.618	97.437	2713.794	3.19%	88.74%
140.0	231.890	87.118	2800.912	2.85%	91.59%
145.0	220.502	75.478	2876.39	2.47%	94.06%
150.0	202.493	62.289	2938.679	2.04%	96.10%
155.0	178.598	48.227	2986.907	1.58%	97.67%
160.0	148.996	34.359	3021.265	1.12%	98.80%
165.0	111.467	21.466	3042.731	0.70%	99.50%
170.0	72.386	10.906	3053.637	0.36%	99.86%
175.0	36.447	3.893	3057.53	0.13%	99.98%
180.0	6.891	0.518	3058.048	0.02%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	159.58	5.22%	5.22%
0-40	315.79	10.33%	10.33%
0-60	750.10	24.53%	24.53%
0-90	1582.31	51.74%	51.74%
0-120	2394.52	78.30%	78.30%
0-180	3058.05	100.00%	100.00%
60-90	832.21	27.21%	27.21%
90-120	812.22	26.56%	26.56%
90-130	1034.05	33.81%	33.81%
90-150	1356.37	44.35%	44.35%
90-180	1475.22	48.24%	48.24%
0-122.26	2446.44	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	10.84
10-20	47.24
20-30	101.51
30-40	156.21
40-50	199.68
50-60	234.63
60-70	262.05
70-80	280.81
80-90	289.35
90-100	286.87
100-110	273.75
110-120	251.59
120-130	221.83
130-140	184.56
140-150	137.77
150-160	82.59
160-170	32.37
170-180	3.89



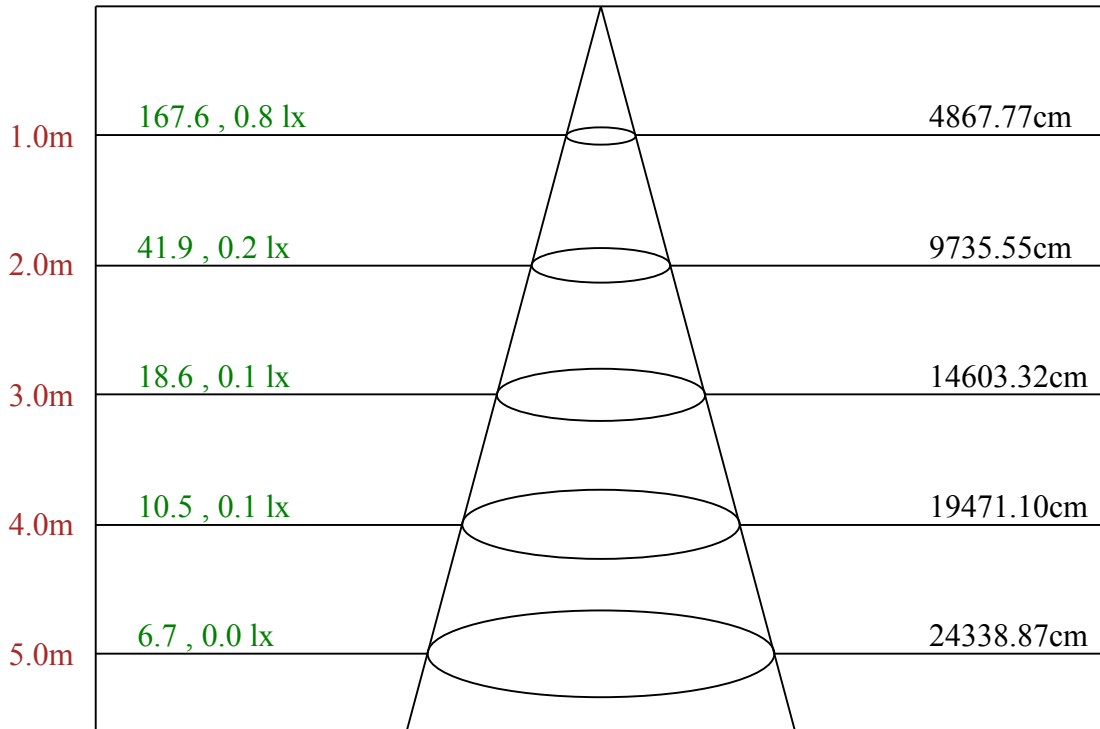
C0(Max): —————

C0/C180: —————

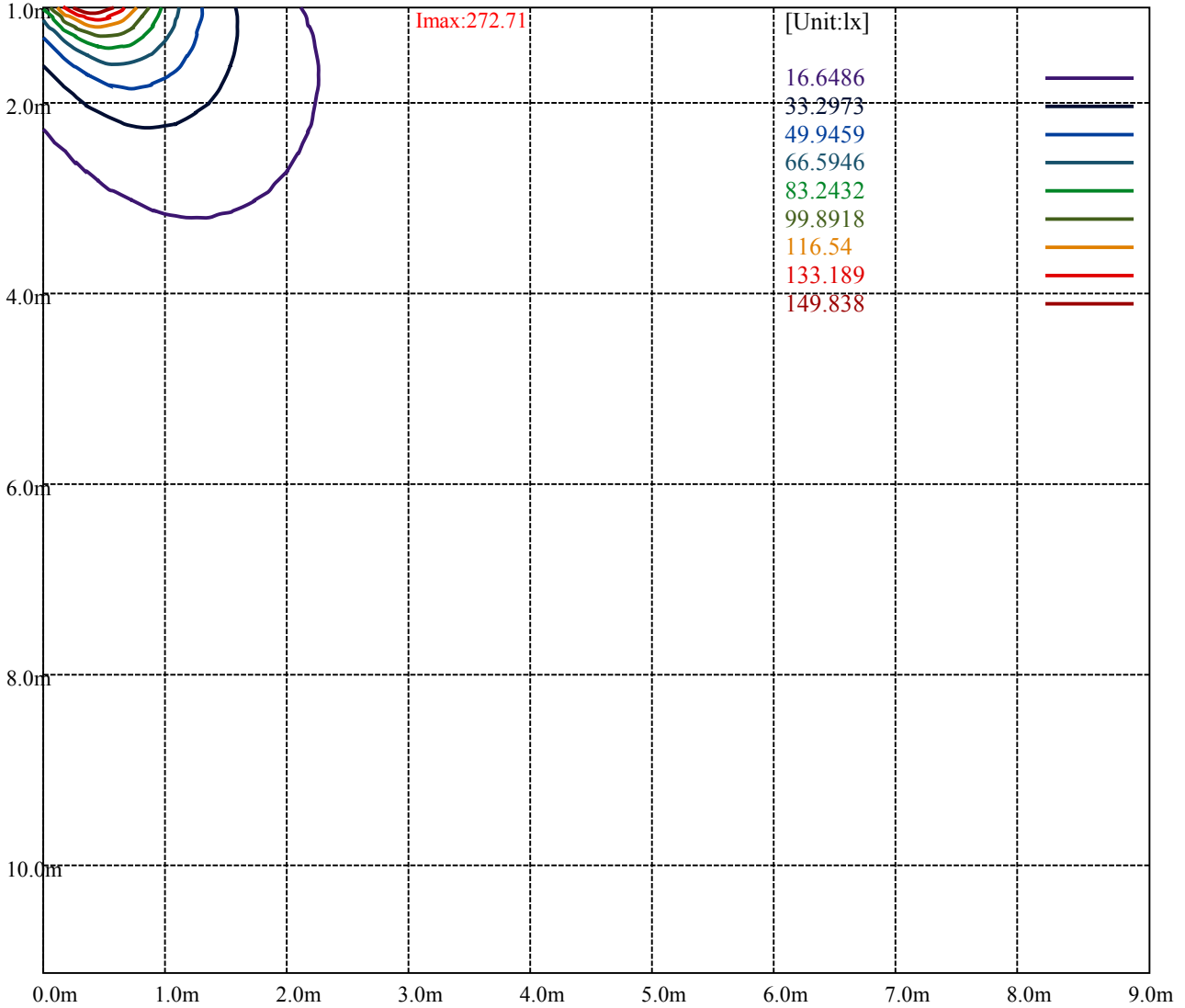
C90/C270: —————

Field angle(10%Imax):C0/180Left:258.8 Right:98.8
:C90/270Left:255.2 Right:95.2

Beam Angle(50%Imax):C0/180Left:243.1 Right:83.1
:C90/270Left:241.0 Right:81.0



Max , Ave Beam angle of C0 plane 175.29



Luminance Table

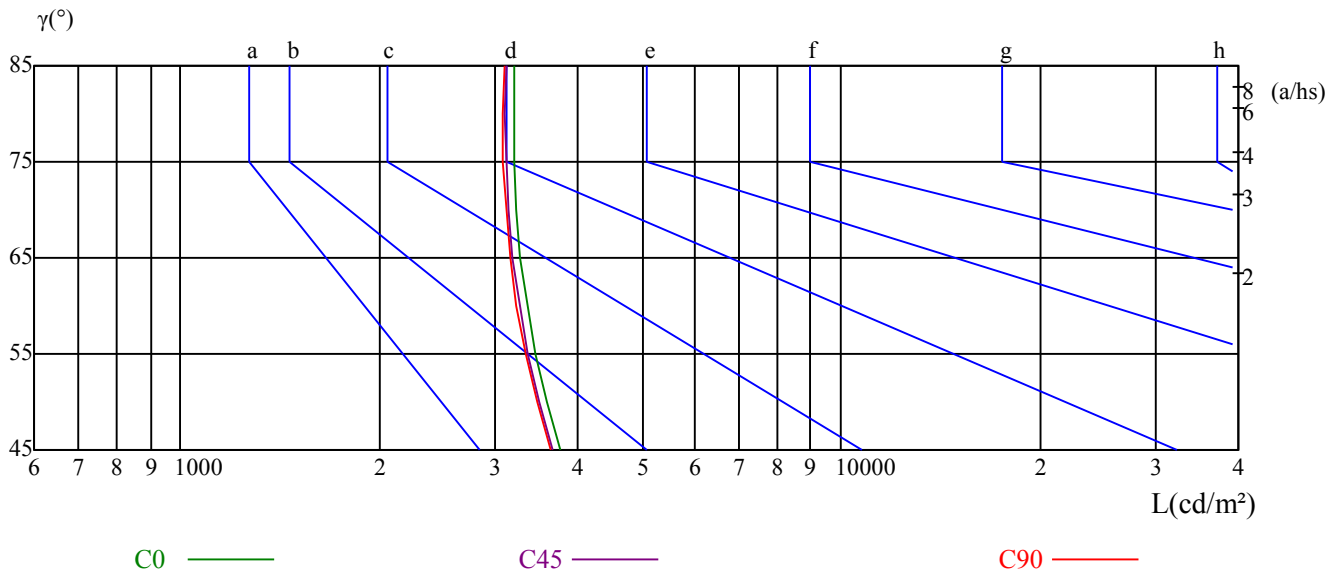
γ	45	50	55	60	65	70	75	80	85
C0	3757	3584	3452	3349	3276	3226	3201	3193	3204
C45	3659	3491	3360	3261	3189	3142	3114	3105	3113
C90	3646	3476	3343	3232	3162	3112	3086	3077	3089

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
41611	40169	40505	68391	65923	66540	203062	195765	197292

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	0.87	0.81	0.76	0.80	0.75	0.70	0.67	0.63	0.59	0.55	0.52	0.49	0.44	0.41	0.39	0.34
2	0.73	0.65	0.59	0.67	0.60	0.54	0.56	0.50	0.46	0.45	0.41	0.37	0.36	0.33	0.30	0.25
3	0.63	0.54	0.47	0.58	0.50	0.43	0.48	0.42	0.36	0.39	0.34	0.30	0.30	0.26	0.23	0.19
4	0.55	0.45	0.38	0.50	0.42	0.35	0.42	0.35	0.30	0.34	0.28	0.24	0.26	0.22	0.19	0.15
5	0.48	0.39	0.32	0.44	0.36	0.29	0.37	0.30	0.25	0.30	0.24	0.20	0.23	0.19	0.16	0.12
6	0.43	0.34	0.27	0.39	0.31	0.25	0.33	0.26	0.21	0.26	0.21	0.17	0.21	0.16	0.13	0.10
7	0.38	0.29	0.23	0.35	0.27	0.21	0.29	0.23	0.18	0.24	0.18	0.15	0.18	0.14	0.11	0.08
8	0.34	0.26	0.20	0.32	0.24	0.19	0.26	0.20	0.16	0.21	0.16	0.13	0.17	0.13	0.10	0.07
9	0.31	0.23	0.17	0.29	0.21	0.16	0.24	0.18	0.14	0.20	0.15	0.11	0.15	0.11	0.09	0.06
10	0.28	0.21	0.15	0.26	0.19	0.14	0.22	0.16	0.12	0.18	0.13	0.10	0.14	0.10	0.08	0.05

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	85.24	97.08	127.32	157.74	190.07	220.12	241.16	255.45	262.74
15.0	83.97	95.81	125.40	156.82	188.61	217.57	237.06	251.45	258.64
30.0	84.70	96.08	123.58	156.10	185.51	214.20	234.51	248.44	255.27
45.0	86.24	94.71	123.13	153.55	183.96	212.10	232.14	245.25	252.27
60.0	86.79	94.44	122.40	150.81	182.42	208.83	228.95	242.70	249.08
75.0	87.70	92.80	119.76	149.45	179.14	207.10	226.13	240.34	246.62
90.0	89.61	92.07	118.94	148.17	176.13	205.46	224.31	238.06	244.80
105.0	91.62	91.34	116.30	145.35	174.77	202.91	223.22	236.42	243.98
120.0	92.35	89.25	115.39	142.89	173.95	200.99	221.76	235.97	243.62
135.0	82.78	88.43	113.20	142.25	172.12	200.72	221.76	236.33	243.98
150.0	93.62	85.88	112.11	141.16	193.07	200.99	221.58	236.51	244.89
165.0	94.81	85.33	112.20	141.52	171.58	199.63	221.94	237.42	246.89
180.0	85.24	113.29	144.07	175.68	206.64	230.14	246.26	256.73	260.10
195.0	83.97	113.29	144.07	174.22	205.00	229.23	245.89	256.09	259.83
210.0	84.70	112.84	143.53	175.31	206.09	229.86	245.89	256.18	260.10
225.0	86.24	112.93	145.35	175.49	206.46	230.41	246.89	256.91	260.74
240.0	86.79	114.75	145.71	177.41	208.28	231.14	248.35	257.73	261.56
255.0	87.70	116.84	146.35	178.14	209.28	232.78	248.99	258.64	262.38
270.0	89.61	117.66	148.54	180.50	210.19	234.24	249.81	259.28	263.20
285.0	91.62	118.48	149.45	181.14	211.92	234.60	250.26	259.37	260.19
300.0	92.35	120.67	151.82	182.14	190.43	235.05	250.45	259.10	262.83
315.0	82.78	121.85	153.00	184.60	213.29	235.97	250.35	258.82	262.28
330.0	93.62	122.40	153.36	184.78	214.56	235.60	250.54	258.55	262.10
345.0	94.81	123.86	154.73	186.15	214.20	235.05	249.72	257.55	260.74
360.0	85.24	97.08	127.32	157.74	190.07	220.12	241.16	255.45	262.74
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	265.65	268.02	270.21	271.67	272.94	273.85	274.76	275.22	274.85
15.0	261.19	263.38	265.11	266.57	267.75	268.48	269.12	269.39	269.21
30.0	257.64	259.55	260.92	262.10	263.10	263.74	264.56	264.38	264.47
45.0	254.09	255.73	257.00	258.10	258.92	259.64	260.10	260.19	259.92
60.0	250.90	252.45	253.54	254.54	255.27	255.73	256.09	256.27	256.27
75.0	248.35	249.63	250.45	251.17	251.99	252.36	252.81	252.90	252.72
90.0	246.44	247.53	248.44	249.08	249.26	249.72	249.99	249.99	249.90
105.0	245.53	246.44	247.17	247.62	247.90	248.44	248.62	248.62	248.26
120.0	245.35	246.44	247.17	247.71	247.99	248.35	248.53	248.53	248.17
135.0	246.07	247.26	248.08	248.72	249.08	249.54	249.99	249.99	249.99
150.0	247.26	248.62	249.99	250.72	251.63	252.18	252.54	252.90	252.72
165.0	249.08	250.72	252.18	253.36	254.27	255.18	255.64	256.37	256.37
180.0	262.47	264.20	265.84	267.20	268.48	269.48	270.21	270.21	270.03
195.0	262.19	264.47	265.93	267.57	268.93	269.84	270.39	270.57	270.12
210.0	262.65	264.93	266.93	268.48	269.66	270.85	271.30	271.76	271.21
225.0	263.47	265.75	267.93	269.57	270.94	272.03	272.67	272.76	272.48
240.0	264.29	266.75	268.93	270.57	272.03	273.12	274.12	274.49	274.12
255.0	265.38	267.84	270.12	271.76	273.12	274.31	275.13	274.94	275.03
270.0	266.02	268.66	270.66	270.94	273.40	274.40	275.31	275.49	275.40
285.0	266.29	268.66	270.85	272.67	273.85	275.13	275.95	275.95	275.49
300.0	266.11	269.02	271.39	273.40	274.76	275.76	276.22	276.31	275.49
315.0	265.11	267.93	270.57	272.85	275.13	276.95	277.68	277.58	276.40
330.0	265.11	267.75	270.30	272.58	274.67	276.22	277.40	276.95	276.04
345.0	263.65	266.29	268.75	270.66	272.39	273.58	274.22	274.12	273.40
360.0	265.65	268.02	270.21	271.67	272.94	273.85	274.76	275.22	274.85

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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	274.22	272.85	270.85	268.39	265.65	262.74	259.73	256.55	253.36
15.0	268.39	267.29	265.20	263.20	260.55	257.64	254.82	252.08	248.62
30.0	263.65	262.38	260.65	258.46	256.27	253.63	250.54	247.44	243.43
45.0	259.46	258.00	256.73	254.63	252.27	249.63	246.99	243.80	239.97
60.0	255.45	254.45	252.90	250.90	248.72	246.35	243.25	240.06	235.33
75.0	252.08	250.81	249.35	247.62	245.53	242.89	240.61	237.70	233.96
90.0	249.08	247.99	246.53	244.71	242.61	240.43	238.15	235.33	231.50
105.0	247.44	246.26	245.25	243.25	241.61	239.70	237.79	235.33	231.14
120.0	247.80	246.71	245.44	243.71	241.70	240.06	238.06	235.97	232.05
135.0	249.35	248.35	246.99	245.53	243.52	241.43	239.43	237.33	234.42
150.0	252.54	251.27	250.08	248.17	245.89	243.43	241.43	239.15	236.69
165.0	255.82	254.82	253.09	251.27	248.81	246.26	243.80	241.34	238.61
180.0	269.02	267.38	265.11	262.47	259.83	256.82	254.18	250.90	247.62
195.0	269.12	267.84	265.38	263.10	260.28	257.46	254.27	250.90	247.53
210.0	270.30	268.75	266.66	264.11	261.19	258.55	255.27	251.90	248.26
225.0	271.76	269.93	268.11	265.56	262.74	259.64	258.19	252.18	248.44
240.0	273.03	271.57	270.66	266.38	263.47	260.37	256.73	253.45	249.63
255.0	274.03	272.30	270.21	267.20	264.56	261.28	257.91	254.27	250.54
270.0	274.40	272.85	270.66	267.84	264.83	261.74	258.28	254.36	250.26
285.0	274.40	272.58	270.48	267.84	265.29	261.92	258.46	254.73	250.63
300.0	274.76	273.03	270.75	267.93	265.02	261.92	258.00	254.54	250.35
315.0	274.58	272.67	270.57	267.38	264.65	261.10	257.46	253.54	249.17
330.0	274.40	272.21	269.48	266.38	263.20	259.73	256.55	252.54	248.17
345.0	272.03	270.39	267.48	264.65	261.56	258.19	254.36	250.45	246.44
360.0	274.22	272.85	270.85	268.39	265.65	262.74	259.73	256.55	253.36

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	249.17	244.16	237.79	224.67	206.91	180.87	150.09	111.65	68.85
15.0	243.52	237.60	229.95	216.48	196.90	171.58	137.34	99.18	60.38
30.0	237.79	231.96	224.49	209.92	189.88	163.65	125.59	88.07	50.54
45.0	234.87	227.40	217.84	203.45	182.96	151.72	114.11	74.04	38.34
60.0	230.23	223.31	211.74	193.53	167.66	134.15	95.35	55.28	25.50
75.0	228.41	219.30	207.55	186.15	159.01	125.86	83.15	42.53	15.85
90.0	224.04	214.02	199.99	177.22	149.99	115.93	71.49	31.33	8.92
105.0	221.94	208.64	192.07	169.21	142.62	107.65	65.84	26.32	7.83
120.0	222.03	207.55	191.25	168.12	140.61	107.37	69.40	32.42	11.84
135.0	227.59	216.57	202.63	184.05	157.46	126.95	89.07	50.27	21.58
150.0	232.60	225.31	216.11	199.17	172.12	142.98	105.10	67.85	32.97
165.0	235.87	232.14	224.76	206.82	185.42	154.55	120.49	81.05	43.81
180.0	243.80	238.42	224.31	199.45	169.67	134.97	96.81	60.84	40.62
195.0	243.89	238.52	226.22	206.91	178.50	169.85	109.29	71.67	43.81
210.0	244.34	242.34	227.86	210.92	188.43	158.37	122.86	83.06	47.27
225.0	244.53	240.15	229.68	212.83	189.79	161.38	125.68	88.07	47.72
240.0	245.71	241.25	231.14	215.11	193.34	162.93	129.23	89.61	46.99
255.0	246.07	240.61	230.87	215.38	194.71	162.65	129.87	91.07	46.81
270.0	246.17	241.25	231.32	214.38	193.34	163.11	128.05	88.61	45.81
285.0	246.44	241.61	230.87	213.65	190.52	162.38	127.77	87.52	42.71
300.0	246.17	240.52	228.86	212.01	188.70	159.37	125.04	86.34	40.71
315.0	245.16	239.61	227.50	209.46	186.51	155.64	122.67	82.15	34.97
330.0	244.07	237.51	224.85	207.28	182.78	152.64	117.30	76.59	29.42
345.0	242.43	235.60	222.40	203.64	178.50	149.36	113.66	71.76	21.49
360.0	249.17	244.16	237.79	224.67	206.91	180.87	150.09	111.65	68.85

Intensity data(cd)

C/γ(°)	180.0
0.0	36.79
15.0	27.14
30.0	20.04
45.0	14.39
60.0	9.11
75.0	5.28
90.0	4.28
105.0	3.92
120.0	4.37
135.0	8.47
150.0	13.21
165.0	18.40
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	36.79