
弗格斯莱

Client:

LumCAT: CLSP24LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.010

LampCAT:

Current(A): 0.214

Lamp flux(lm): 1455.7

Power (W): 25.530

Number of Lamps: 1

PF: 0.995

Length(mm): 540

Width(mm): 520

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1455.74, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 57.02

Central intensity(cd): 427.403, Maximum intensity(cd): 427.403

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=116.8

[C90/270]Total=119.8

Field angle(10%Imax): [C0/180]Total=193.6

[C90/270]Total=186.8

Maximum s/h(1/2): C0_180=1.26 C90_270=1.25

Maximum s/h(1/4): C0_180=1.38 C90_270=1.38

Up flux rate of lamp(%): 6.20%

Down flux rate of lamp(%): 93.80%

Up flux rate of LUM(%): 6.20%

Down flux rate of LUM(%): 93.80%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 66.764%

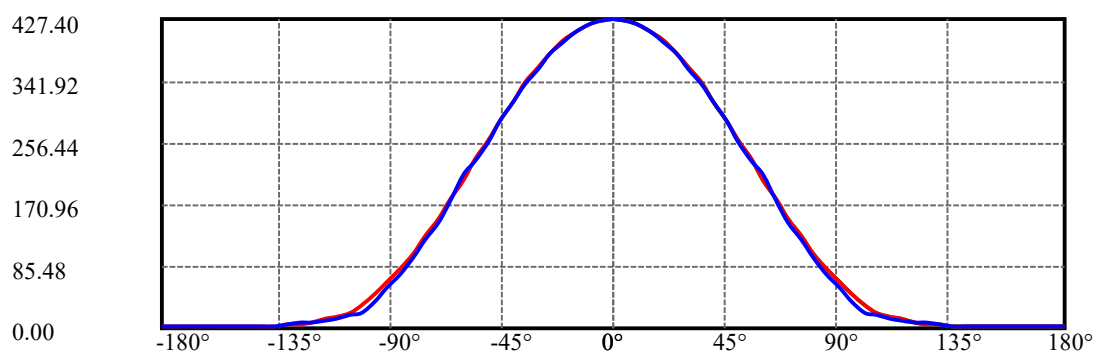
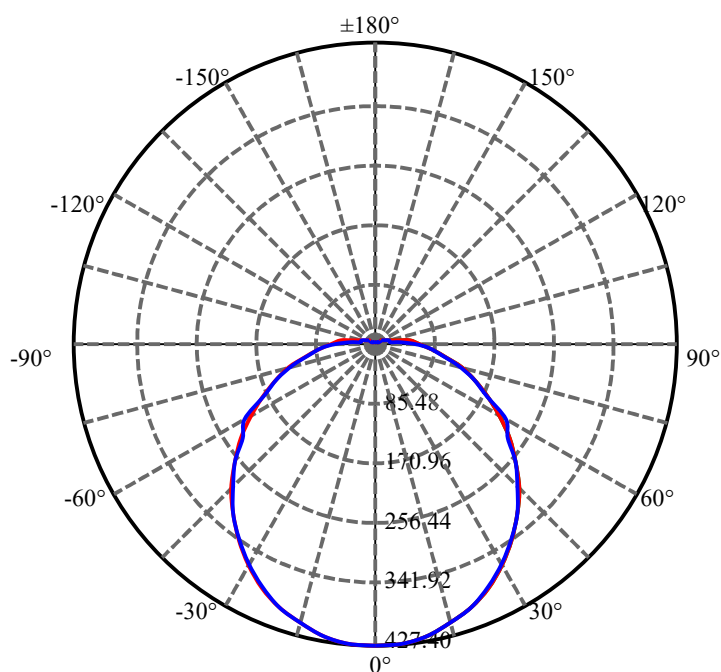
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	427.402	0.000	0	0.00%	0.00%
5.0	425.524	10.196	10.196	0.70%	0.70%
10.0	419.699	30.236	40.433	2.08%	2.78%
15.0	409.962	49.215	89.648	3.38%	6.16%
20.0	396.581	66.470	156.118	4.57%	10.72%
25.0	379.872	81.436	237.554	5.59%	16.32%
30.0	360.016	93.633	331.187	6.43%	22.75%
35.0	337.706	102.745	433.932	7.06%	29.81%
40.0	313.978	108.729	542.66	7.47%	37.28%
45.0	287.070	111.289	653.949	7.64%	44.92%
50.0	259.547	110.452	764.401	7.59%	52.51%
55.0	231.448	106.759	871.16	7.33%	59.84%
60.0	204.427	100.751	971.911	6.92%	66.76%
65.0	175.826	92.440	1064.351	6.35%	73.11%
70.0	148.726	82.179	1146.53	5.65%	78.76%
75.0	123.194	71.075	1217.605	4.88%	83.64%
80.0	100.656	59.896	1277.501	4.11%	87.76%
85.0	79.688	49.004	1326.505	3.37%	91.12%
90.0	62.441	38.916	1365.421	2.67%	93.80%
95.0	42.423	28.713	1394.133	1.97%	95.77%
100.0	26.166	18.637	1412.771	1.28%	97.05%
105.0	18.666	11.996	1424.766	0.82%	97.87%
110.0	13.874	8.505	1433.272	0.58%	98.46%
115.0	10.155	6.084	1439.356	0.42%	98.87%
120.0	7.859	4.379	1443.735	0.30%	99.18%
125.0	5.905	3.182	1446.917	0.22%	99.39%
130.0	4.294	2.217	1449.134	0.15%	99.55%
135.0	3.181	1.510	1450.645	0.10%	99.65%
140.0	2.493	1.051	1451.695	0.07%	99.72%
145.0	2.262	0.793	1452.489	0.05%	99.78%
150.0	2.607	0.717	1453.206	0.05%	99.83%
155.0	2.838	0.689	1453.895	0.05%	99.87%
160.0	2.953	0.607	1454.502	0.04%	99.91%
165.0	3.374	0.521	1455.023	0.04%	99.95%
170.0	3.374	0.400	1455.424	0.03%	99.98%
175.0	3.680	0.252	1455.676	0.02%	100.00%
180.0	1.955	0.067	1455.743	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	331.19	22.75%	22.75%
0-40	542.66	37.28%	37.28%
0-60	971.91	66.76%	66.76%
0-90	1365.42	93.80%	93.80%
0-120	1443.74	99.18%	99.18%
0-180	1455.74	100.00%	100.00%
60-90	393.51	27.03%	27.03%
90-120	78.31	5.38%	5.38%
90-130	83.71	5.75%	5.75%
90-150	87.78	6.03%	6.03%
90-180	90.26	6.20%	6.20%
0-71.27	1164.60	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	40.43
10-20	115.69
20-30	175.07
30-40	211.47
40-50	221.74
50-60	207.51
60-70	174.62
70-80	130.97
80-90	87.92
90-100	47.35
100-110	20.50
110-120	10.46
120-130	5.40
130-140	2.56
140-150	1.51
150-160	1.30
160-170	0.92
170-180	0.25



C0(Max):

C0/C180:

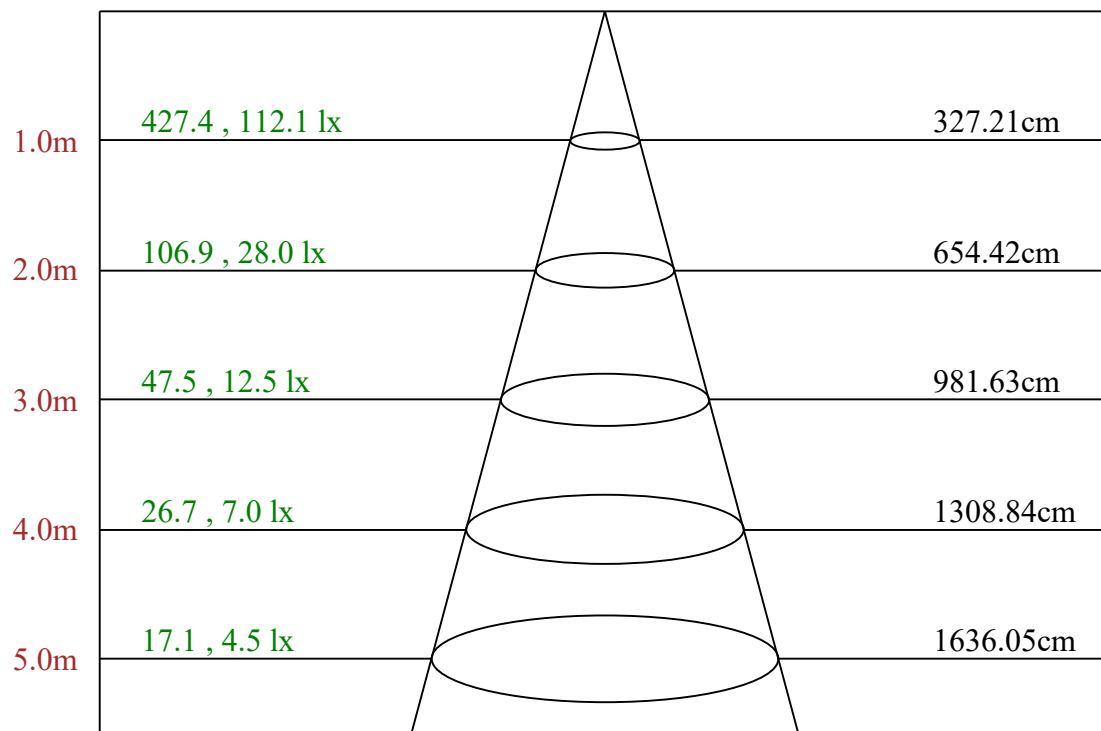
C90/C270:

Field angle(10%Imax):C0/180Left:96.8 Right:96.8

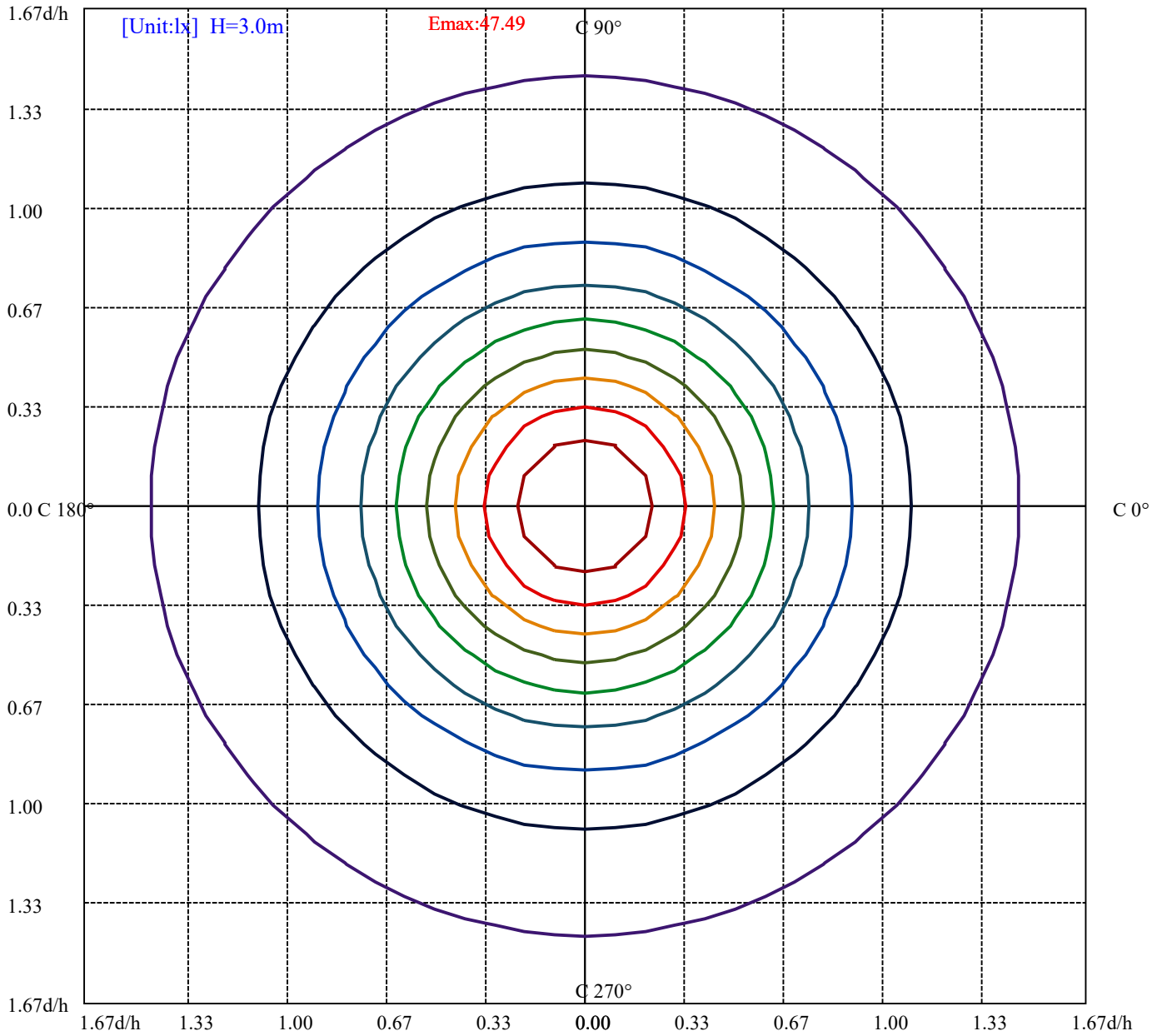
:C90/270Left:93.4 Right:93.4

Beam Angle(50%Imax):C0/180Left:58.4 Right:58.4

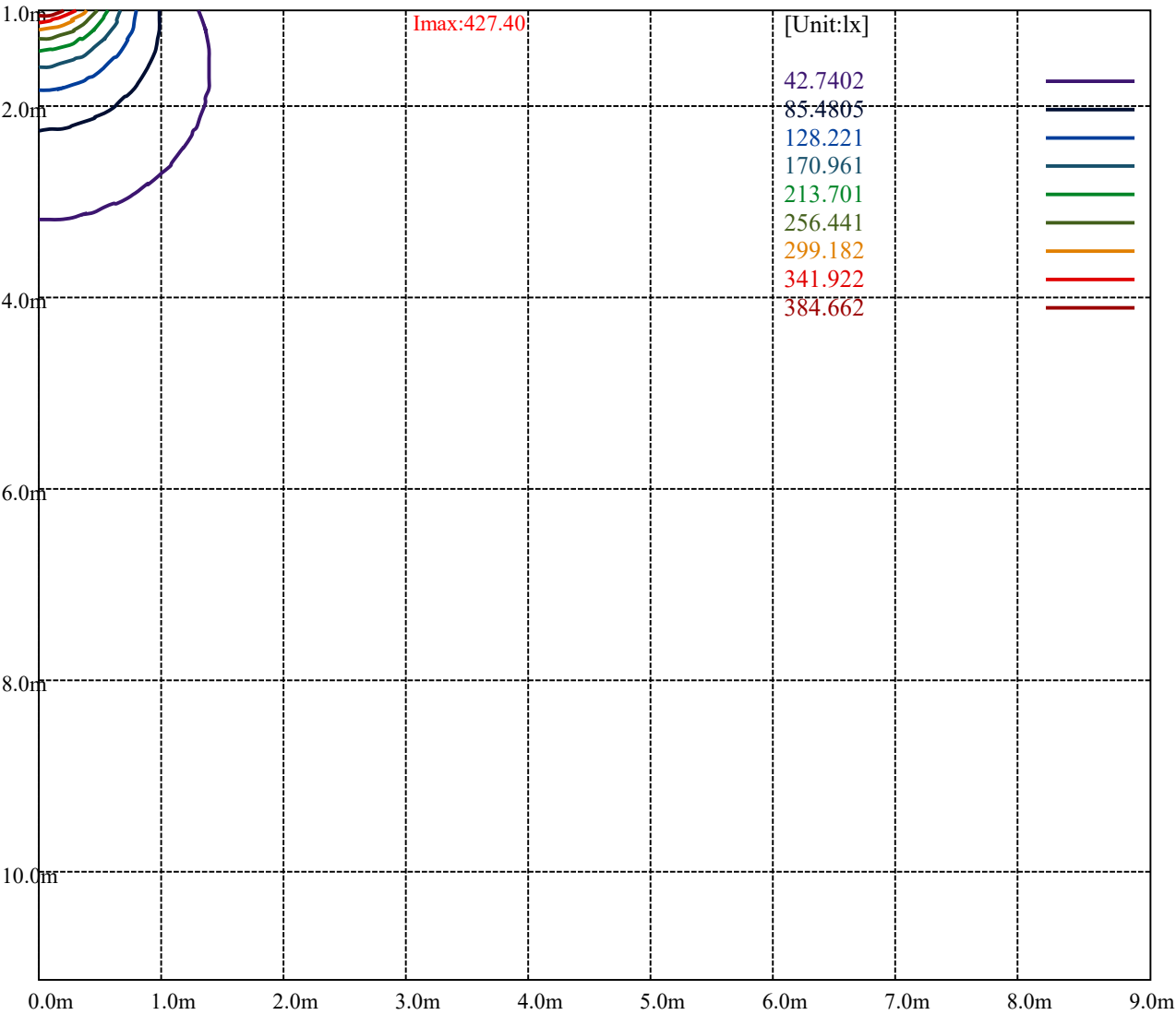
:C90/270Left:59.9 Right:59.9



Max , Ave Beam angle of C0 plane 117.13



(10%Emax)	4.748911	—
(20%Emax)	9.497833	—
(30%Emax)	14.24678	—
(40%Emax)	18.99567	—
(50%Emax)	23.74456	—
(60%Emax)	28.49345	—
(70%Emax)	33.24245	—
(80%Emax)	37.99133	—
(90%Emax)	42.74022	—



Luminance Table

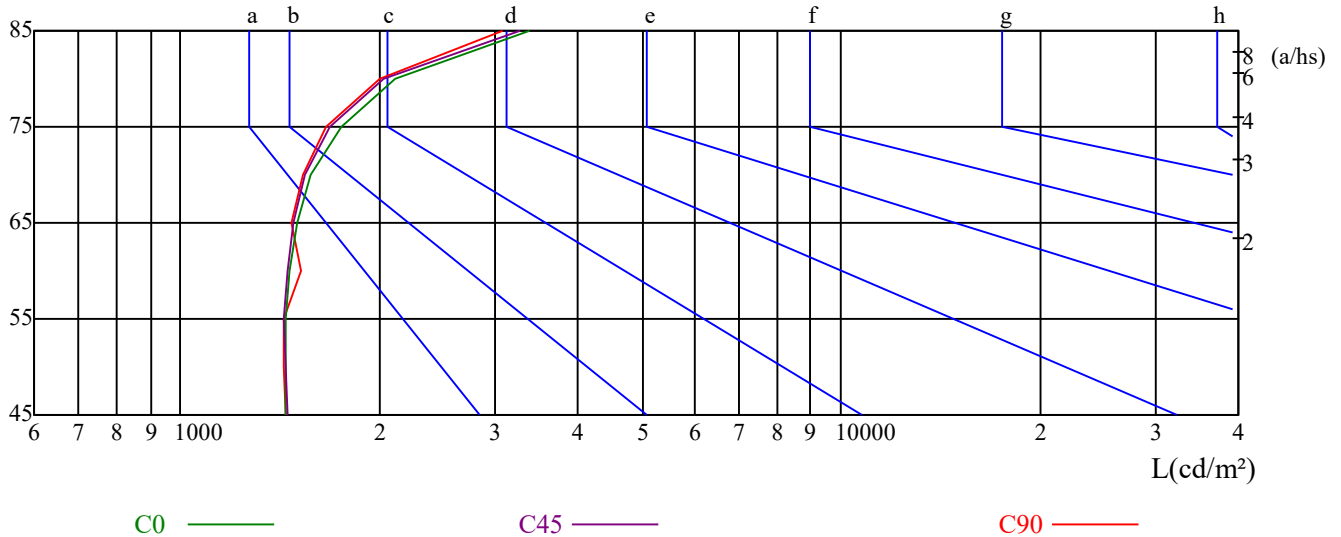
γ	45	50	55	60	65	70	75	80	85
C0	1446	1443	1445	1461	1503	1578	1754	2112	3374
C45	1448	1438	1436	1450	1478	1546	1681	2028	3268
C90	1439	1429	1433	1519	1470	1528	1664	2007	3074

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1503	1470	1478	1754	1664	1681	3374	3074	3268

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

 $\gamma(^{\circ})$ 

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	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	0.96	0.96	0.96	0.94
1	1.00	0.94	0.90	0.97	0.92	0.88	0.91	0.87	0.84	0.86	0.83	0.80	0.81	0.79	0.77	0.74
2	0.86	0.78	0.72	0.83	0.76	0.70	0.79	0.73	0.68	0.74	0.70	0.65	0.70	0.66	0.63	0.60
3	0.75	0.66	0.59	0.73	0.65	0.58	0.69	0.62	0.56	0.65	0.59	0.54	0.62	0.57	0.53	0.50
4	0.66	0.57	0.50	0.64	0.56	0.49	0.61	0.53	0.47	0.58	0.51	0.46	0.55	0.49	0.45	0.42
5	0.59	0.49	0.42	0.57	0.48	0.42	0.54	0.47	0.41	0.52	0.45	0.40	0.49	0.43	0.39	0.36
6	0.53	0.44	0.37	0.52	0.43	0.36	0.49	0.41	0.36	0.47	0.40	0.35	0.45	0.39	0.34	0.32
7	0.48	0.39	0.32	0.47	0.38	0.32	0.45	0.37	0.31	0.43	0.36	0.31	0.41	0.35	0.30	0.28
8	0.44	0.35	0.29	0.43	0.34	0.29	0.41	0.33	0.28	0.39	0.32	0.27	0.37	0.31	0.27	0.25
9	0.40	0.32	0.26	0.39	0.31	0.26	0.37	0.30	0.25	0.36	0.29	0.25	0.34	0.29	0.24	0.22
10	0.37	0.29	0.23	0.36	0.28	0.23	0.35	0.28	0.23	0.33	0.27	0.22	0.32	0.26	0.22	0.20

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	3.63
15.0	4.56
30.0	4.59
45.0	4.62
60.0	3.69
75.0	3.68
90.0	3.69
105.0	3.68
120.0	3.68
135.0	3.68
150.0	3.70
165.0	3.70
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	3.63