
乐达凯

Client:

LumCAT: TUCF04LAJD1WH-4000K

Luminaire: LED 灯具

Report No:

Ballast type:

Test No: LCZP22040129

Voltage(V): 120.020

LampCAT:

Current(A): 0.085

Lamp flux(lm): 700.0

Power (W): 9.980

Number of Lamps: 1

PF: 0.984

Length(mm): -75

Width(mm): -75

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 700.02, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 70.14

Central intensity(cd): 246.047, Maximum intensity(cd): 246.047

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=111.6

[C90/270]Total=112.0

Field angle(10%Imax): [C0/180]Total=161.0

[C90/270]Total=161.0

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

Maximum s/h(1/4): C0_180=1.37 C90_270=1.38

Up flux rate of lamp(%): 0.07%

Down flux rate of lamp(%): 99.93%

Up flux rate of LUM(%): 0.07%

Down flux rate of LUM(%): 99.93%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 79.051%

乐达凯 TUCF04LAJD1WH-4000K

Zonal flux distribution table

Appendix Page: 2 Total:12

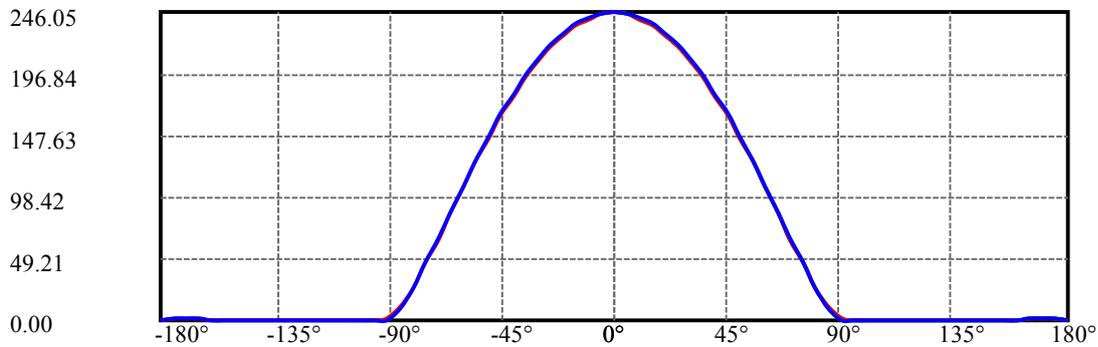
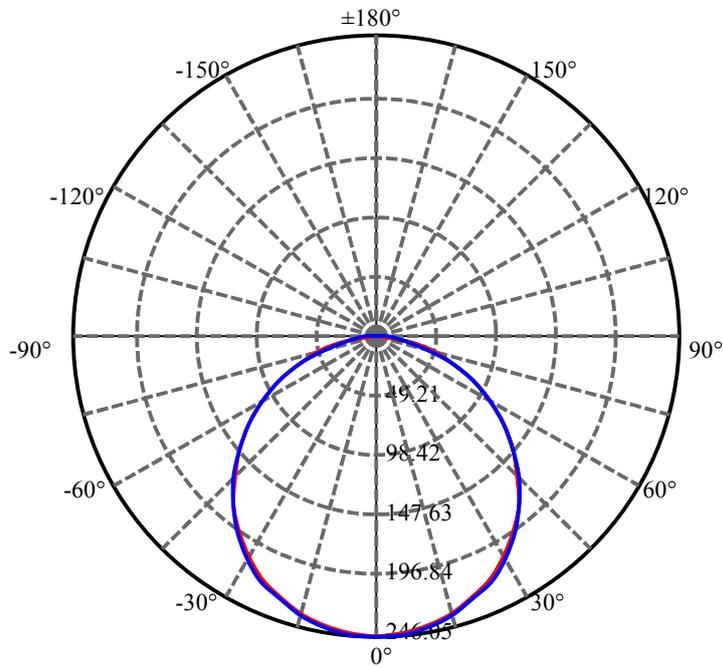
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	246.047	0.000	0	0.00%	0.00%
5.0	244.906	5.869	5.869	0.84%	0.84%
10.0	241.551	17.402	23.271	2.49%	3.32%
15.0	236.239	28.342	51.613	4.05%	7.37%
20.0	228.828	38.328	89.942	5.48%	12.85%
25.0	219.903	47.064	137.005	6.72%	19.57%
30.0	209.024	54.281	191.286	7.75%	27.33%
35.0	195.121	59.513	250.799	8.50%	35.83%
40.0	180.444	62.660	313.459	8.95%	44.78%
45.0	164.292	63.831	377.29	9.12%	53.90%
50.0	145.778	62.654	439.944	8.95%	62.85%
55.0	126.897	59.289	499.233	8.47%	71.32%
60.0	107.315	54.137	553.37	7.73%	79.05%
65.0	86.368	47.085	600.455	6.73%	85.78%
70.0	65.422	38.434	638.889	5.49%	91.27%
75.0	45.655	29.034	667.923	4.15%	95.42%
80.0	26.257	19.242	687.164	2.75%	98.16%
85.0	9.255	9.649	696.814	1.38%	99.54%
90.0	0.699	2.725	699.539	0.39%	99.93%
95.0	0.000	0.191	699.731	0.03%	99.96%
100.0	0.000	0.000	699.731	0.00%	99.96%
105.0	0.000	0.000	699.731	0.00%	99.96%
110.0	0.000	0.000	699.731	0.00%	99.96%
115.0	0.000	0.000	699.731	0.00%	99.96%
120.0	0.000	0.000	699.731	0.00%	99.96%
125.0	0.000	0.000	699.731	0.00%	99.96%
130.0	0.000	0.000	699.731	0.00%	99.96%
135.0	0.000	0.000	699.731	0.00%	99.96%
140.0	0.000	0.000	699.731	0.00%	99.96%
145.0	0.000	0.000	699.731	0.00%	99.96%
150.0	0.000	0.000	699.731	0.00%	99.96%
155.0	0.000	0.000	699.731	0.00%	99.96%
160.0	0.258	0.027	699.758	0.00%	99.96%
165.0	0.737	0.082	699.84	0.01%	99.97%
170.0	0.885	0.096	699.936	0.01%	99.99%
175.0	0.885	0.063	699.999	0.01%	100.00%
180.0	0.443	0.016	700.015	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	191.29	27.33%	27.33%
0-40	313.46	44.78%	44.78%
0-60	553.37	79.05%	79.05%
0-90	699.54	99.93%	99.93%
0-120	699.73	99.96%	99.96%
0-180	700.02	100.00%	100.00%
60-90	146.17	20.88%	20.88%
90-120	0.19	0.03%	0.03%
90-130	0.19	0.03%	0.03%
90-150	0.19	0.03%	0.03%
90-180	0.46	0.07%	0.07%
0-60.71	560.01	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	23.27
10-20	66.67
20-30	101.34
30-40	122.17
40-50	126.48
50-60	113.43
60-70	85.52
70-80	48.28
80-90	12.37
90-100	0.19
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.03
160-170	0.18
170-180	0.06



C0(Max): ———

C0/C180: ———

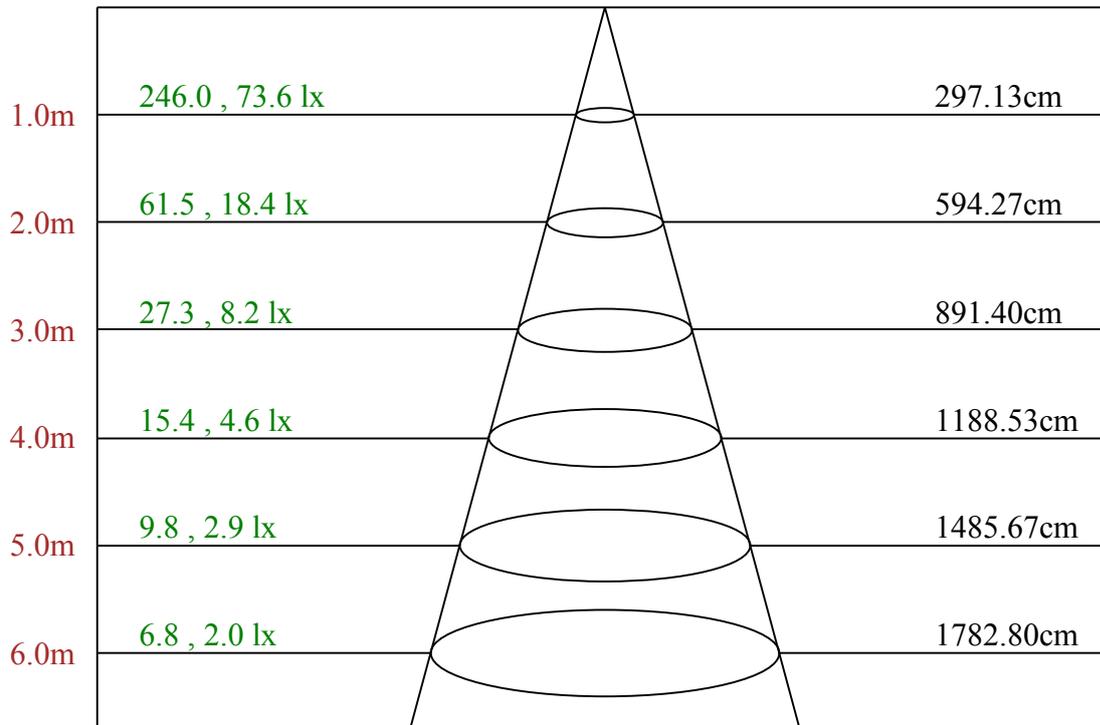
C90/C270: ———

Field angle(10%Imax):C0/180Left:80.5 Right:80.5

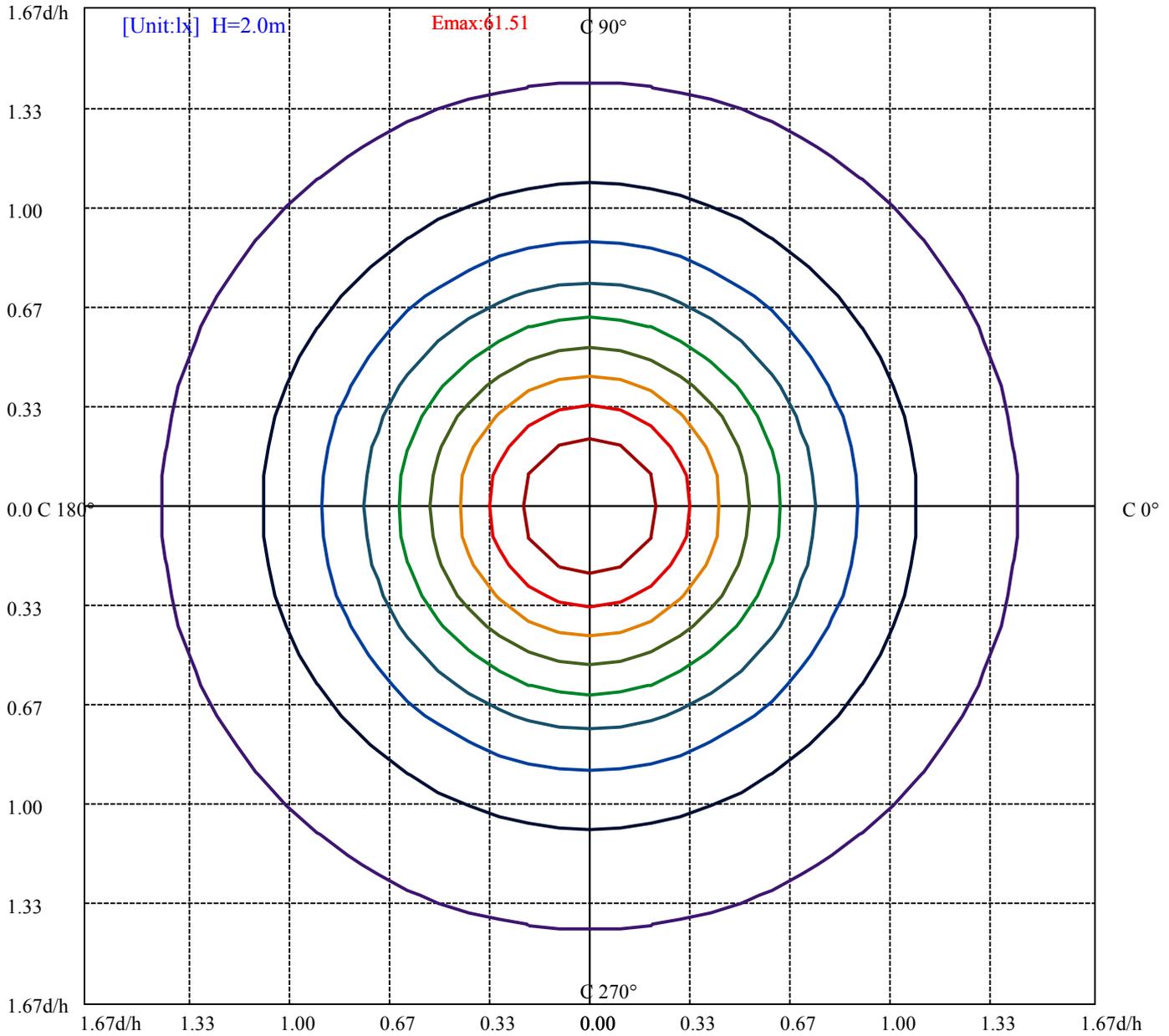
:C90/270Left:80.5 Right:80.5

Beam Angle(50%Imax):C0/180Left:55.8 Right:55.8

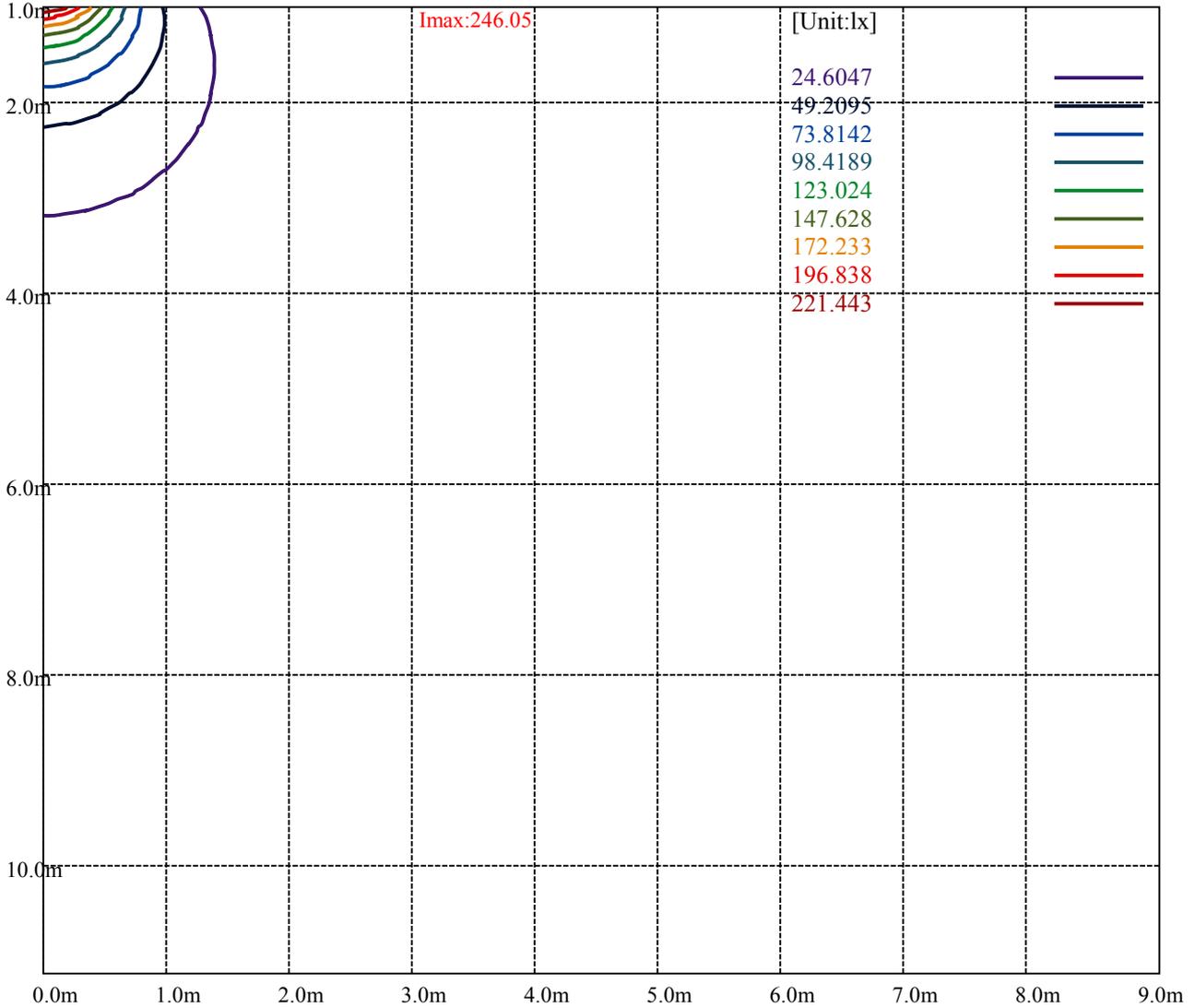
:C90/270Left:56.0 Right:56.0



Max , Ave Beam angle of C0 plane 112.11



(10%Emax) 6.151175	—
(20%Emax) 12.30237	—
(30%Emax) 18.45355	—
(40%Emax) 24.60472	—
(50%Emax) 30.756	—
(60%Emax) 36.907	—
(70%Emax) 43.05825	—
(80%Emax) 49.2095	—
(90%Emax) 55.36075	—



乐达凯 TUCF04LAJD1WH-4000K

Luminance Limiting Curve(no luminous side)

Appendix Page: 8 Total:12

Luminance Table

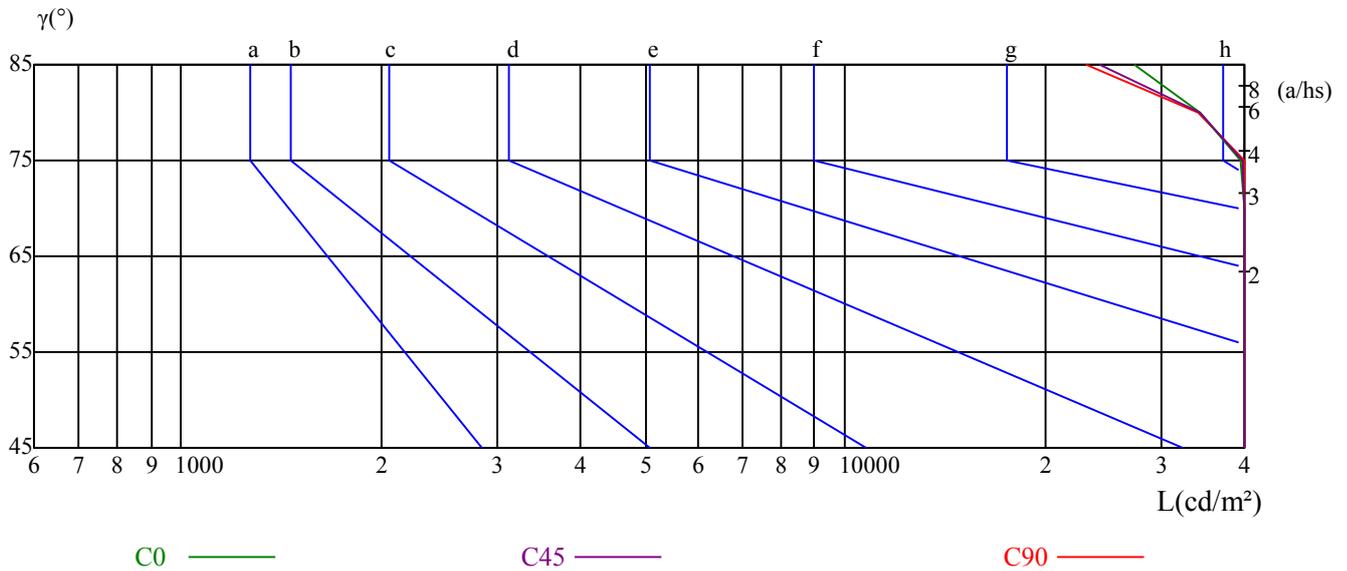
γ	45	50	55	60	65	70	75	80	85
C0	52135	51185	49759	48162	45960	42882	39438	34241	27289
C45	53052	51192	50121	48482	46219	43199	39670	34322	24135
C90	52603	51455	50127	48456	45910	43502	40007	34157	23069

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
45960	45910	46219	39438	40007	39670	27289	23069	24135

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.04	1.00	0.96	1.02	0.98	0.94	0.97	0.94	0.91	0.93	0.91	0.88	0.90	0.88	0.86	0.84
2	0.91	0.84	0.78	0.89	0.82	0.77	0.85	0.80	0.75	0.82	0.77	0.73	0.79	0.75	0.72	0.70
3	0.79	0.71	0.65	0.78	0.70	0.64	0.75	0.68	0.63	0.72	0.67	0.62	0.70	0.65	0.61	0.59
4	0.70	0.62	0.55	0.69	0.61	0.54	0.67	0.59	0.54	0.64	0.58	0.53	0.62	0.57	0.52	0.50
5	0.63	0.54	0.47	0.62	0.53	0.47	0.60	0.52	0.46	0.58	0.51	0.46	0.56	0.50	0.45	0.43
6	0.57	0.48	0.41	0.56	0.47	0.41	0.54	0.46	0.41	0.52	0.45	0.40	0.50	0.44	0.40	0.38
7	0.51	0.42	0.36	0.50	0.42	0.36	0.49	0.41	0.36	0.47	0.41	0.36	0.46	0.40	0.35	0.33
8	0.47	0.38	0.32	0.46	0.38	0.32	0.45	0.37	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.30
9	0.43	0.35	0.29	0.42	0.34	0.29	0.41	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.29	0.27
10	0.40	0.32	0.26	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.31	0.26	0.36	0.30	0.26	0.24

乐达凯 TUCF04LAJD1WH-4000K

Appendix Page: 10 Total:12

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	246.05	245.17	242.54	239.92	232.91	225.91	216.28	204.02	190.88
15.0	246.05	246.93	244.28	241.64	235.46	228.41	218.71	205.48	192.25
30.0	246.05	246.05	246.05	242.51	235.43	229.23	218.61	206.22	192.94
45.0	246.05	246.05	246.05	240.74	236.31	229.23	218.61	207.10	192.94
60.0	246.05	246.94	246.05	241.61	236.28	229.17	218.51	206.96	193.64
75.0	246.05	247.83	246.94	241.59	236.24	229.11	219.30	206.82	193.45
90.0	246.05	246.05	245.16	240.72	235.39	228.28	217.62	206.08	190.98
105.0	246.05	246.05	243.39	239.85	233.66	224.81	215.96	202.68	189.40
120.0	246.05	246.05	244.28	238.97	233.66	224.81	215.07	201.79	187.63
135.0	246.05	246.05	243.39	238.08	231.89	223.04	213.30	199.14	185.86
150.0	246.05	245.16	243.39	238.08	231.89	223.04	211.53	199.14	184.09
165.0	246.05	246.05	243.39	238.08	231.00	221.27	211.53	197.37	183.21
180.0	246.05	242.54	237.29	231.16	221.53	211.90	199.64	184.75	168.12
195.0	246.05	242.52	238.11	230.17	222.24	211.65	199.31	184.32	168.44
210.0	246.05	243.39	238.08	231.00	222.15	211.53	199.14	184.09	168.16
225.0	246.05	243.39	237.20	231.00	221.27	210.64	198.25	184.09	168.16
240.0	246.05	244.27	238.05	231.84	222.06	211.41	198.97	183.87	168.77
255.0	246.05	244.26	238.92	232.68	222.87	213.95	200.58	185.43	169.38
270.0	246.05	243.38	238.05	231.84	222.95	213.18	200.75	185.65	170.55
285.0	246.05	244.28	238.08	231.89	223.04	213.30	201.79	187.63	170.82
300.0	246.05	243.39	238.97	232.77	223.92	214.19	202.68	187.63	172.59
315.0	246.05	244.28	239.85	233.66	224.81	215.07	203.56	189.40	174.36
330.0	246.05	243.39	239.85	234.54	227.46	216.84	210.64	191.17	176.13
345.0	246.05	244.28	239.85	235.43	227.46	217.73	206.22	192.06	177.90
360.0	246.05	245.17	242.54	239.92	232.91	225.91	216.28	204.02	190.88

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	175.12	158.49	140.10	120.83	101.57	80.56	60.42	40.28	21.01
15.0	177.26	159.62	141.98	122.58	103.18	81.13	60.85	40.57	20.28
30.0	177.90	161.08	142.50	123.02	102.67	81.43	61.07	40.71	21.24
45.0	177.90	160.20	142.50	123.02	102.67	80.54	60.18	39.83	20.36
60.0	177.65	159.89	142.12	122.58	102.15	79.94	58.62	38.20	18.65
75.0	177.40	159.57	141.74	121.24	99.85	79.34	57.95	36.55	17.83
90.0	174.99	157.22	139.46	119.03	97.71	77.28	55.96	34.64	15.99
105.0	172.59	154.89	137.18	115.94	95.59	74.35	53.10	33.63	14.16
120.0	171.70	154.00	134.53	114.17	94.70	72.58	51.33	30.98	13.28
135.0	169.05	151.35	132.76	112.40	92.05	70.80	49.56	30.09	11.51
150.0	168.16	150.46	130.99	111.52	90.28	68.15	47.79	28.32	10.62
165.0	167.28	149.58	128.33	109.75	88.51	67.26	46.91	27.44	9.74
180.0	150.61	132.22	112.08	91.94	70.05	49.03	29.77	12.26	0.00
195.0	150.80	132.28	111.12	90.83	70.55	49.39	29.98	12.35	0.00
210.0	150.46	130.99	111.52	91.16	70.80	49.56	30.09	12.39	0.00
225.0	150.46	130.10	111.52	91.16	70.80	49.56	30.98	13.28	0.00
240.0	151.89	131.46	112.81	92.38	71.95	51.52	32.87	15.10	0.89
255.0	152.44	133.72	113.22	93.60	73.10	52.60	32.98	16.05	0.89
270.0	153.67	135.02	114.59	95.04	73.73	54.18	35.53	17.77	1.78
285.0	154.00	135.41	117.71	96.47	77.00	57.53	46.02	18.59	2.66
300.0	155.77	138.07	119.48	107.98	78.77	58.41	38.06	20.36	3.54
315.0	165.51	139.84	121.25	101.78	79.66	60.18	40.71	22.13	5.31
330.0	159.31	140.72	122.14	102.67	82.31	61.95	42.48	23.90	6.20
345.0	161.08	142.50	123.91	104.44	83.20	62.84	42.48	24.78	6.20
360.0	175.12	158.49	140.10	120.83	101.57	80.56	60.42	40.28	21.01

乐达凯 TUCF04LAJD1WH-4000K

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	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	3.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	3.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	2.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.88	0.88
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.88
30.0	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.89
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
75.0	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.89
90.0	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.89
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
120.0	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.89
135.0	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.89
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
165.0	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.89
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.88
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.88
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89
360.0	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.88	0.88

Intensity data(cd)

C/γ(°)	180.0
0.0	0.88
15.0	0.88
30.0	0.89
45.0	0.89
60.0	0.89
75.0	0.89
90.0	0.89
105.0	0.89
120.0	0.89
135.0	0.89
150.0	0.89
165.0	0.89
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	0.88