
革星

Client:

LumCAT: DKT-120501D-D-5

Luminaire: LED lamp

Report No:

Ballast type:

Test No: LCZP24110190

Voltage(V): 120.060

LampCAT:

Current(A): 0.105

Lamp flux(lm): 536.4

Power (W): 12.290

Number of Lamps: 1

PF: 0.977

Length(mm): 105

Width(mm): 35

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 536.35, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 43.64

Central intensity(cd): 313.395, Maximum intensity(cd): 313.395

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=86.2

[C90/270]Total=65.2

Field angle(10%Imax): [C0/180]Total=142.0

[C90/270]Total=129.0

Maximum s/h(1/2): C0_180=1.13 C90_270=0.92

Maximum s/h(1/4): C0_180=1.19 C90_270=0.99

Up flux rate of lamp(%): 0.17%

Down flux rate of lamp(%): 99.83%

Up flux rate of LUM(%): 0.17%

Down flux rate of LUM(%): 99.83%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 88.300%

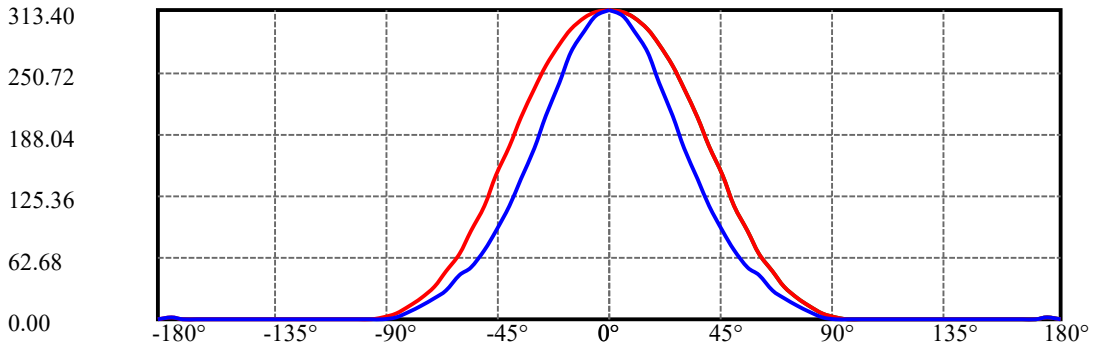
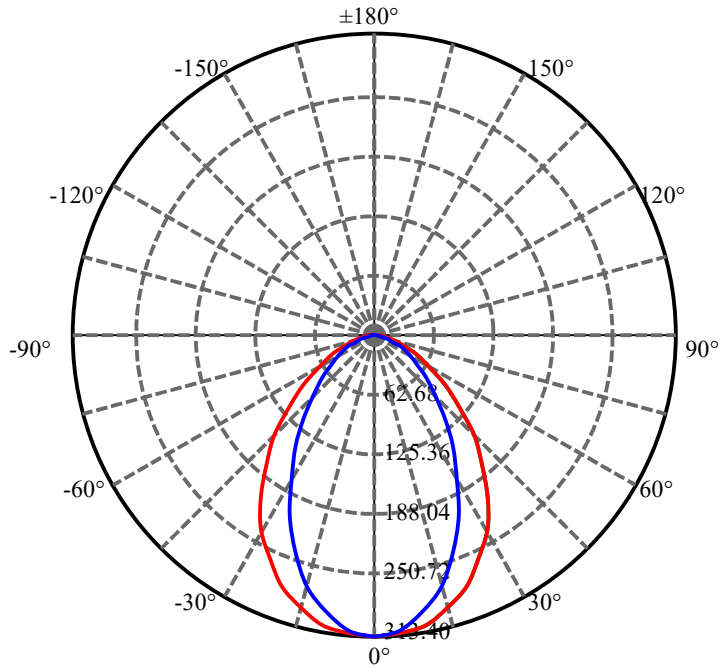
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	313.395	0.000	0	0.00%	0.00%
5.0	309.885	7.451	7.451	1.39%	1.39%
10.0	299.102	21.785	29.237	4.06%	5.45%
15.0	282.023	34.472	63.708	6.43%	11.88%
20.0	259.388	44.620	108.328	8.32%	20.20%
25.0	231.833	51.520	159.848	9.61%	29.80%
30.0	202.389	54.951	214.799	10.25%	40.05%
35.0	171.816	55.104	269.904	10.27%	50.32%
40.0	143.034	52.530	322.434	9.79%	60.12%
45.0	114.346	47.656	370.09	8.89%	69.00%
50.0	89.711	41.233	411.323	7.69%	76.69%
55.0	68.740	34.453	445.775	6.42%	83.11%
60.0	51.624	27.822	473.597	5.19%	88.30%
65.0	37.381	21.637	495.234	4.03%	92.33%
70.0	26.320	16.130	511.364	3.01%	95.34%
75.0	17.273	11.395	522.759	2.12%	97.47%
80.0	10.177	7.345	530.103	1.37%	98.83%
85.0	4.150	3.893	533.996	0.73%	99.56%
90.0	1.031	1.419	535.415	0.26%	99.83%
95.0	0.042	0.294	535.709	0.05%	99.88%
100.0	0.012	0.015	535.724	0.00%	99.88%
105.0	0.000	0.003	535.727	0.00%	99.88%
110.0	0.000	0.000	535.727	0.00%	99.88%
115.0	0.000	0.000	535.727	0.00%	99.88%
120.0	0.000	0.000	535.727	0.00%	99.88%
125.0	0.000	0.000	535.727	0.00%	99.88%
130.0	0.000	0.000	535.727	0.00%	99.88%
135.0	0.004	0.001	535.728	0.00%	99.88%
140.0	0.019	0.004	535.732	0.00%	99.88%
145.0	0.099	0.020	535.752	0.00%	99.89%
150.0	0.280	0.056	535.808	0.01%	99.90%
155.0	0.467	0.095	535.902	0.02%	99.92%
160.0	0.698	0.122	536.024	0.02%	99.94%
165.0	0.873	0.129	536.154	0.02%	99.96%
170.0	0.954	0.108	536.262	0.02%	99.98%
175.0	1.035	0.071	536.333	0.01%	100.00%
180.0	0.560	0.019	536.353	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	214.80	40.05%	40.05%
0-40	322.43	60.12%	60.12%
0-60	473.60	88.30%	88.30%
0-90	535.42	99.83%	99.83%
0-120	535.73	99.88%	99.88%
0-180	536.35	100.00%	100.00%
60-90	61.82	11.53%	11.53%
90-120	0.31	0.06%	0.06%
90-130	0.31	0.06%	0.06%
90-150	0.39	0.07%	0.07%
90-180	0.92	0.17%	0.17%
0-52.58	429.08	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	29.24
10-20	79.09
20-30	106.47
30-40	107.63
40-50	88.89
50-60	62.27
60-70	37.77
70-80	18.74
80-90	5.31
90-100	0.31
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.01
140-150	0.08
150-160	0.22
160-170	0.24
170-180	0.07



C0(Max): ———

C0/C180: ———

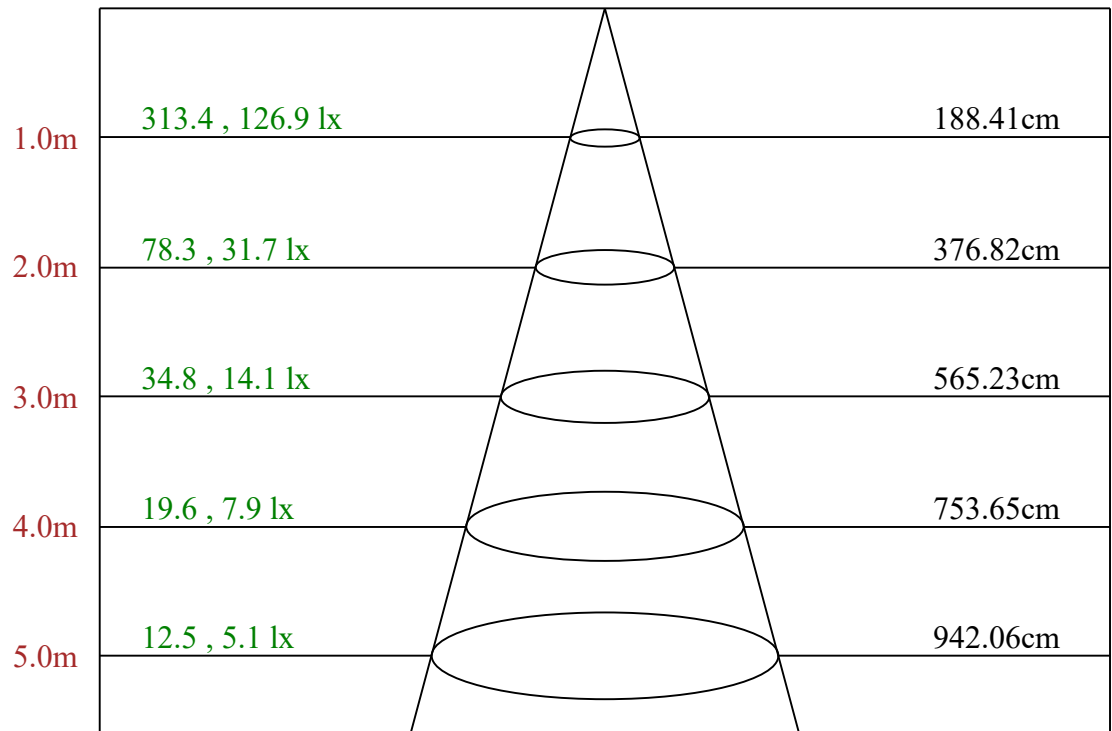
C90/C270: ———

Field angle(10%Imax):C0/180Left:71.0 Right:71.0

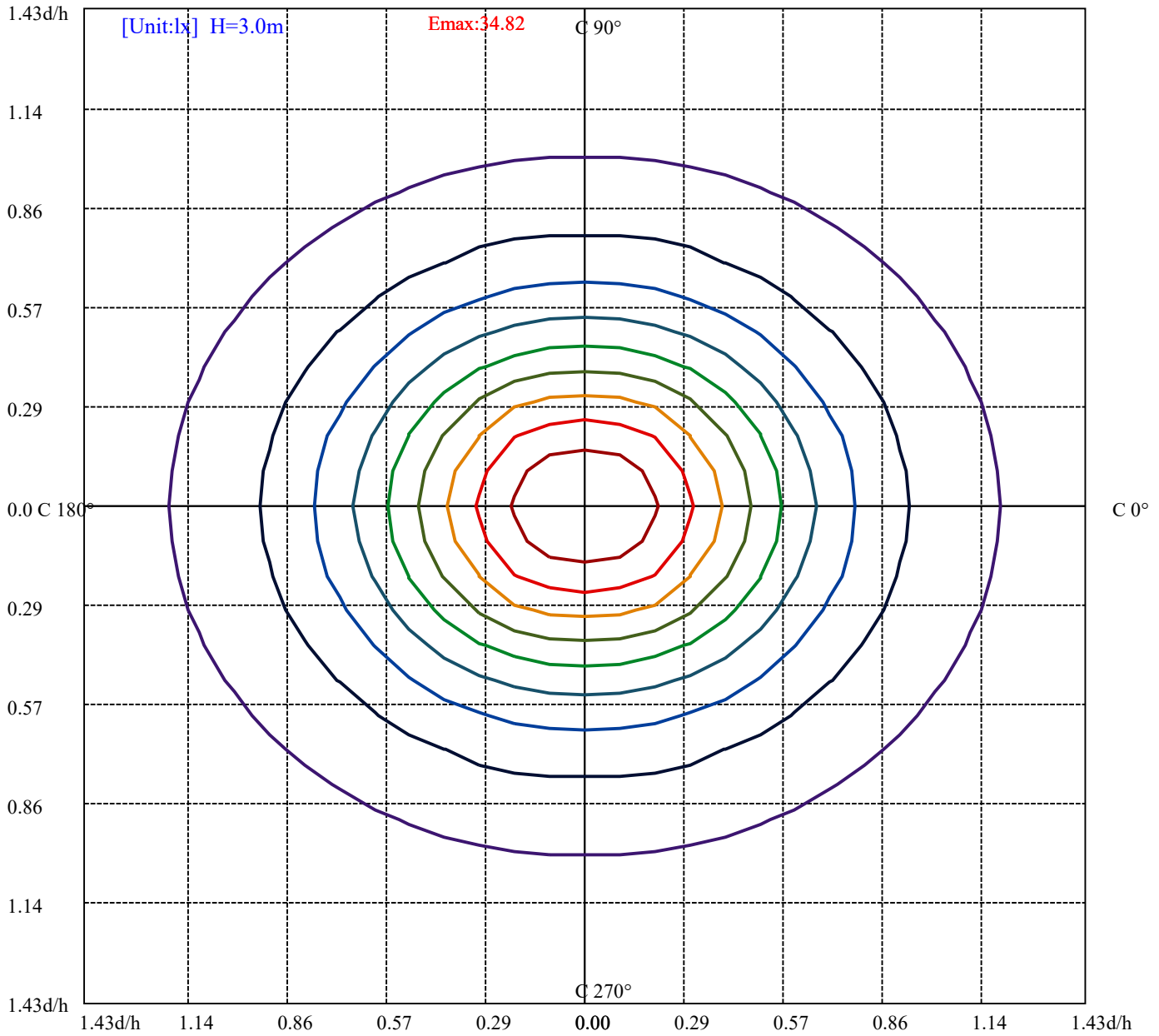
:C90/270Left:64.5 Right:64.5

Beam Angle(50%Imax):C0/180Left:43.1 Right:43.1

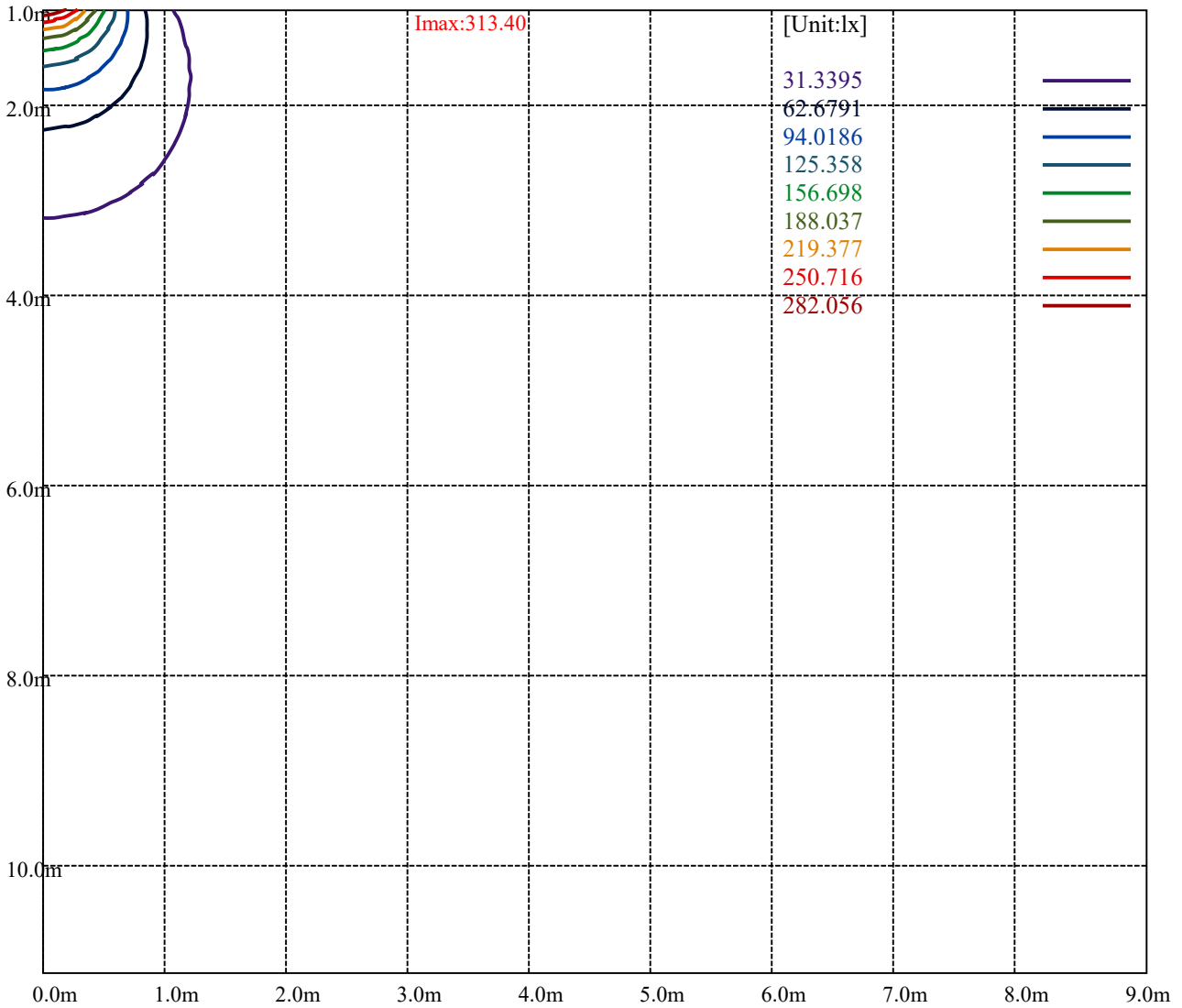
:C90/270Left:32.6 Right:32.6



Max , Ave Beam angle of C0 plane 86.58



(10%Emax) 3.482167	—
(20%Emax) 6.964345	—
(30%Emax) 10.44651	—
(40%Emax) 13.92867	—
(50%Emax) 17.41089	—
(60%Emax) 20.893	—
(70%Emax) 24.37522	—
(80%Emax) 27.85733	—
(90%Emax) 31.33956	—



Luminance Table

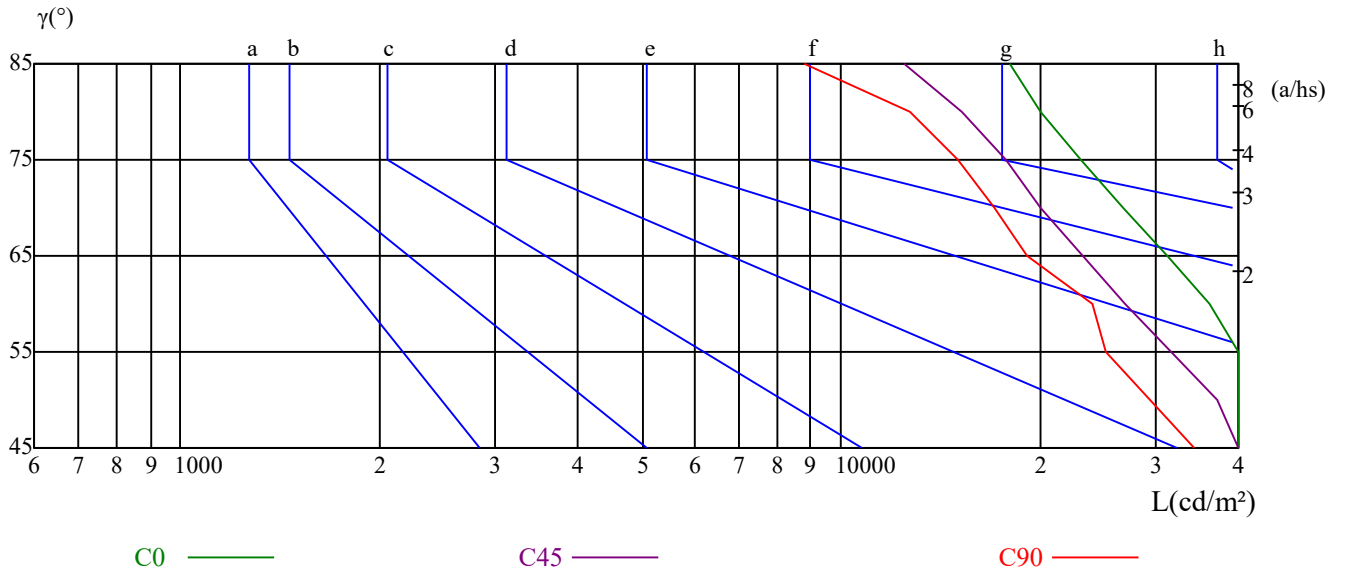
γ	45	50	55	60	65	70	75	80	85
C0	55979	48890	42602	36238	31315	26770	23057	20093	18084
C45	43199	37190	31626	26917	23174	20120	17782	15272	12486
C90	34221	29354	25203	24085	19155	17127	15056	12741	8798

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
31315	19155	23174	23057	15056	17782	18084	8798	12486

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	1.07	1.03	1.00	1.04	1.01	0.98	1.00	0.98	0.95	0.96	0.94	0.92	0.93	0.91	0.89	0.87
2	0.95	0.89	0.85	0.93	0.88	0.84	0.90	0.86	0.82	0.87	0.83	0.80	0.84	0.81	0.78	0.76
3	0.86	0.79	0.73	0.84	0.78	0.72	0.81	0.76	0.71	0.78	0.74	0.70	0.76	0.72	0.69	0.67
4	0.77	0.70	0.64	0.76	0.69	0.63	0.74	0.67	0.62	0.71	0.66	0.62	0.69	0.65	0.61	0.59
5	0.70	0.62	0.56	0.69	0.62	0.56	0.67	0.61	0.55	0.65	0.59	0.55	0.63	0.58	0.54	0.52
6	0.64	0.56	0.50	0.63	0.56	0.50	0.61	0.55	0.50	0.60	0.54	0.49	0.58	0.53	0.49	0.47
7	0.59	0.51	0.45	0.58	0.51	0.45	0.57	0.50	0.45	0.55	0.49	0.45	0.54	0.48	0.44	0.43
8	0.54	0.47	0.41	0.54	0.46	0.41	0.52	0.46	0.41	0.51	0.45	0.41	0.50	0.45	0.40	0.39
9	0.50	0.43	0.38	0.50	0.43	0.38	0.49	0.42	0.37	0.48	0.42	0.37	0.47	0.41	0.37	0.35
10	0.47	0.40	0.35	0.46	0.39	0.35	0.45	0.39	0.34	0.44	0.39	0.34	0.44	0.38	0.34	0.33

革星 DKT-120501D-D-5

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	313.40	314.19	310.48	301.37	286.60	266.44	243.01	214.71	184.38
15.0	313.40	312.95	307.74	297.61	281.28	259.85	233.84	205.13	174.64
30.0	313.40	311.13	304.07	290.40	270.93	246.93	218.77	189.25	159.91
45.0	313.40	310.38	299.78	283.24	259.21	233.08	203.20	172.78	143.27
60.0	313.40	308.44	295.58	275.66	249.12	219.18	189.80	159.77	131.86
75.0	313.40	307.31	292.66	269.34	242.24	209.15	179.28	149.69	122.87
90.0	313.40	307.11	291.31	267.57	237.91	205.94	174.34	146.35	120.30
105.0	313.40	307.18	291.87	267.46	240.08	208.53	177.25	147.74	121.39
120.0	313.40	306.51	292.65	271.07	244.19	214.51	184.19	156.09	127.72
135.0	313.40	312.07	299.08	280.22	256.33	230.26	200.97	171.11	142.10
150.0	313.40	307.32	296.58	281.53	243.97	238.64	212.01	183.33	154.08
165.0	313.40	308.89	300.26	288.15	271.44	250.51	225.82	198.14	167.44
180.0	313.40	308.18	300.22	286.78	271.04	248.40	224.17	195.87	165.81
195.0	313.40	309.00	300.57	288.37	270.16	248.19	223.43	192.31	163.78
210.0	313.40	309.50	299.18	285.96	264.95	240.95	212.61	182.10	150.22
225.0	313.40	309.47	298.41	280.87	257.48	230.89	198.00	167.30	135.96
240.0	313.40	309.08	296.87	275.01	249.30	217.81	184.38	151.05	119.65
255.0	313.40	308.69	294.50	271.82	244.17	208.68	175.41	141.30	110.15
270.0	313.40	309.51	293.81	271.82	241.79	207.42	171.85	137.30	107.64
285.0	313.40	309.96	296.41	274.23	247.04	211.68	178.55	144.22	136.33
300.0	313.40	310.88	299.16	280.84	274.88	223.63	189.77	155.91	123.91
315.0	313.40	316.05	306.76	291.12	268.37	239.74	207.70	174.14	142.95
330.0	313.40	310.22	302.65	291.81	273.59	247.15	219.68	188.56	156.60
345.0	313.40	313.21	307.86	296.31	279.23	256.42	229.30	199.45	169.88
360.0	313.40	314.19	310.48	301.37	286.60	266.44	243.01	214.71	184.38

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	153.34	123.36	96.03	72.16	53.15	37.05	24.58	14.86	7.25
15.0	145.58	115.53	90.50	67.81	49.24	34.35	22.78	13.81	6.01
30.0	130.57	103.59	80.05	60.85	43.55	31.06	20.46	11.86	4.89
45.0	116.04	93.10	71.27	54.55	40.11	28.23	18.55	10.51	4.11
60.0	106.79	85.12	66.76	51.15	38.11	27.55	18.18	10.10	3.40
75.0	100.01	80.47	64.34	49.50	37.70	27.01	17.79	9.59	2.95
90.0	98.12	79.09	62.92	48.97	36.77	26.89	17.74	9.61	2.31
105.0	98.65	79.16	63.38	48.63	36.94	26.54	17.45	9.47	2.41
120.0	104.19	83.07	64.93	50.05	37.02	26.79	17.30	9.77	3.16
135.0	115.18	91.19	71.48	53.18	39.53	27.87	18.30	10.24	3.60
150.0	127.08	100.73	77.83	58.12	42.23	29.43	18.50	11.21	4.58
165.0	140.13	112.07	87.95	64.76	47.59	33.23	18.40	12.11	5.54
180.0	137.60	107.62	83.57	61.02	44.13	30.24	19.28	10.79	4.33
195.0	133.56	105.21	79.92	59.11	42.78	28.79	19.02	10.85	4.48
210.0	120.88	95.17	70.36	52.61	37.40	25.72	16.93	9.78	4.17
225.0	106.81	81.23	60.30	43.95	31.34	22.02	15.08	9.14	4.11
240.0	93.29	68.78	51.33	36.64	26.90	19.10	13.04	8.08	3.95
255.0	83.33	61.48	44.80	32.63	23.60	16.87	11.71	10.32	3.69
270.0	79.73	59.59	43.33	39.54	22.73	16.17	10.90	6.65	3.33
285.0	84.08	63.11	45.84	33.32	23.94	17.08	11.97	7.05	3.71
300.0	95.26	71.16	52.09	37.86	27.16	19.63	13.30	8.00	4.09
315.0	111.01	85.89	63.61	46.17	32.99	23.04	15.74	9.10	4.17
330.0	125.86	97.74	73.54	54.66	38.12	26.91	17.66	10.28	4.49
345.0	137.22	109.63	83.63	61.76	44.11	30.13	19.90	11.08	4.88
360.0	153.34	123.36	96.03	72.16	53.15	37.05	24.58	14.86	7.25

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	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	1.19	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.64	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.18	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	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	1.47	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	1.11	0.18	0.09	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.83	0.18	0.09	0.00	0.00	0.00	0.00	0.00	0.00
285.0	1.21	0.28	0.09	0.00	0.00	0.00	0.00	0.00	0.00
300.0	1.58	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	1.59	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	0.18	0.44	0.62	0.80	1.15	1.06	1.15
15.0	0.00	0.09	0.18	0.54	0.63	0.90	1.08	1.08	1.17
30.0	0.00	0.00	0.27	0.54	0.63	0.91	1.09	1.09	1.09
45.0	0.00	0.09	0.18	0.46	0.64	0.91	1.01	1.19	1.10
60.0	0.00	0.00	0.09	0.37	0.64	0.83	1.10	1.10	1.10
75.0	0.00	0.00	0.09	0.28	0.65	0.92	1.11	1.11	1.20
90.0	0.00	0.00	0.18	0.46	0.55	0.83	1.02	1.20	1.11
105.0	0.00	0.00	0.09	0.46	0.56	0.93	1.11	1.11	1.11
120.0	0.00	0.00	0.19	0.37	0.65	0.93	1.02	1.12	1.12
135.0	0.00	0.00	0.09	0.47	0.57	0.85	1.04	1.14	1.14
150.0	0.00	0.09	0.19	0.47	0.65	1.03	1.12	1.12	1.12
165.0	0.00	0.09	0.28	0.56	0.66	0.94	1.03	1.13	1.13
180.0	0.00	0.00	0.09	0.18	0.35	0.53	0.80	0.88	0.97
195.0	0.00	0.00	0.00	0.09	0.45	0.36	0.72	0.81	0.90
210.0	0.00	0.00	0.00	0.09	0.27	0.54	0.63	0.81	0.91
225.0	0.00	0.00	0.00	0.09	0.27	0.55	0.73	0.82	1.01
240.0	0.00	0.00	0.00	0.18	0.28	0.46	0.73	0.73	0.92
255.0	0.00	0.00	0.09	0.09	0.28	0.46	0.74	0.83	0.92
270.0	0.09	0.09	0.18	0.18	0.46	0.55	0.65	0.74	0.92
285.0	0.00	0.00	0.00	0.09	0.37	0.56	0.56	0.74	0.93
300.0	0.00	0.00	0.00	0.09	0.28	0.47	0.65	0.84	0.93
315.0	0.00	0.00	0.00	0.09	0.28	0.47	0.57	0.76	0.95
330.0	0.00	0.00	0.00	0.00	0.19	0.47	0.65	0.75	1.03
345.0	0.00	0.00	0.00	0.09	0.28	0.56	0.66	0.75	0.94
360.0	0.00	0.00	0.18	0.44	0.62	0.80	1.15	1.06	1.15

Intensity data(cd)

C/ γ (°)	180.0
0.0	1.06
15.0	1.17
30.0	1.09
45.0	1.10
60.0	1.19
75.0	1.11
90.0	1.11
105.0	1.11
120.0	1.12
135.0	1.14
150.0	1.12
165.0	1.13
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	1.06