



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.  
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Client:

LumCAT: LB6R-32K-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.01

LampCAT:

Current(A): 0.1210

Lamp flux(lm): -1.0

Power (W): 14.34

Number of Lamps: 1

PF: 0.9855

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 1153.20, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 80.44

Central intensity(cd): 400.055, Maximum intensity(cd): 402.658

Angle of maximum intensity: C=90.0  $\gamma=5.0$

Beam Angle(50%Imax): [C0/180]Total=112.2

[C90/270]Total=112.4

Field angle(10%Imax): [C0/180]Total=163.0

[C90/270]Total=163.0

Maximum s/h(1/2): C0\_180=1.26 C90\_270=1.27

Maximum s/h(1/4): C0\_180=1.38 C90\_270=1.39

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.44%

Down flux rate of LUM(%): 99.56%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 77.907%

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Equipment: GMS-3000  
Temperature(°C): 25

Date:  
Humidity(%): 59%

Operator: Tester

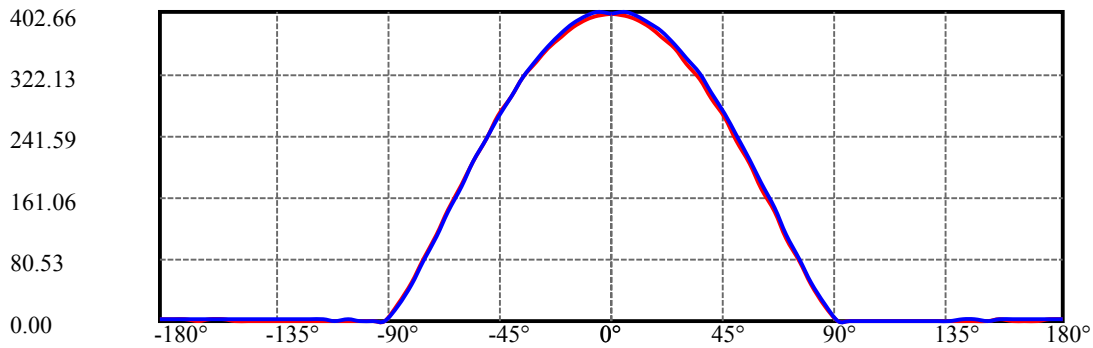
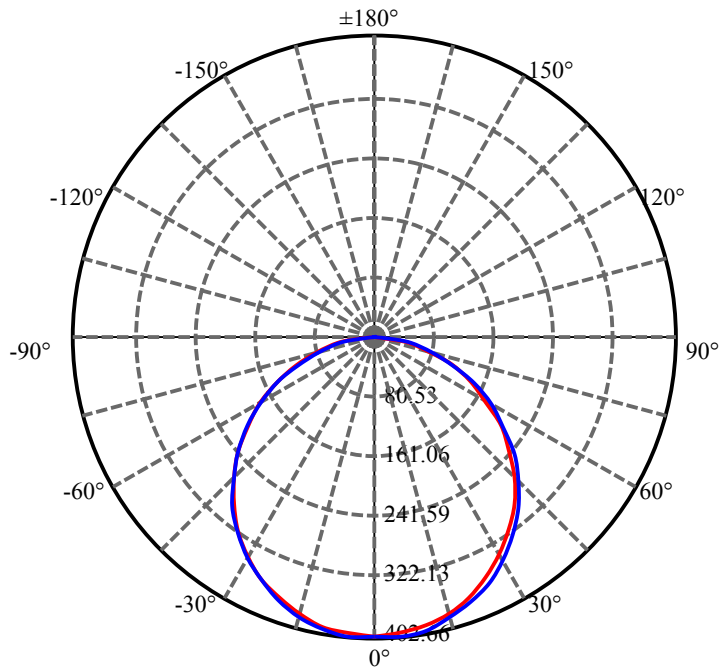
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	400.055	0.000	0	0.00%	0.00%
5.0	398.226	9.543	9.543	0.00%	0.83%
10.0	392.708	28.294	37.837	0.00%	3.28%
15.0	383.737	46.058	83.896	0.00%	7.28%
20.0	371.419	62.235	146.131	0.00%	12.67%
25.0	355.845	76.277	222.408	0.00%	19.29%
30.0	337.613	87.758	310.165	0.00%	26.90%
35.0	316.270	96.289	406.454	0.00%	35.25%
40.0	292.546	101.576	508.031	0.00%	44.05%
45.0	266.163	103.450	611.48	0.00%	53.02%
50.0	237.676	101.808	713.288	0.00%	61.85%
55.0	207.058	96.700	809.988	0.00%	70.24%
60.0	175.515	88.431	898.419	0.00%	77.91%
65.0	143.534	77.561	975.98	0.00%	84.63%
70.0	110.350	64.285	1040.266	0.00%	90.21%
75.0	78.449	49.349	1089.615	0.00%	94.49%
80.0	48.096	33.860	1123.475	0.00%	97.42%
85.0	20.839	18.731	1142.206	0.00%	99.05%
90.0	0.648	5.884	1148.09	0.00%	99.56%
95.0	0.424	0.293	1148.383	0.00%	99.58%
100.0	0.529	0.259	1148.642	0.00%	99.60%
105.0	0.635	0.312	1148.953	0.00%	99.63%
110.0	0.622	0.329	1149.282	0.00%	99.66%
115.0	0.714	0.338	1149.62	0.00%	99.69%
120.0	0.754	0.357	1149.977	0.00%	99.72%
125.0	0.807	0.361	1150.338	0.00%	99.75%
130.0	0.940	0.380	1150.718	0.00%	99.78%
135.0	0.966	0.385	1151.103	0.00%	99.82%
140.0	1.072	0.377	1151.48	0.00%	99.85%
145.0	1.165	0.373	1151.854	0.00%	99.88%
150.0	1.098	0.333	1152.187	0.00%	99.91%
155.0	1.231	0.295	1152.482	0.00%	99.94%
160.0	1.191	0.254	1152.736	0.00%	99.96%
165.0	1.231	0.200	1152.935	0.00%	99.98%
170.0	1.217	0.145	1153.08	0.00%	99.99%
175.0	1.257	0.089	1153.169	0.00%	100.00%
180.0	1.308	0.031	1153.2	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	310.17	N.A.	26.90%
0-40	508.03	N.A.	44.05%
0-60	898.42	N.A.	77.91%
0-90	1148.09	N.A.	99.56%
0-120	1149.98	N.A.	99.72%
0-180	1153.20	N.A.	100.00%
60-90	249.67	N.A.	21.65%
90-120	1.89	N.A.	0.16%
90-130	2.63	N.A.	0.23%
90-150	4.10	N.A.	0.36%
90-180	5.08	N.A.	0.44%
0-61.56	922.56	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	37.84
10-20	108.29
20-30	164.03
30-40	197.87
40-50	205.26
50-60	185.13
60-70	141.85
70-80	83.21
80-90	24.61
90-100	0.55
100-110	0.64
110-120	0.70
120-130	0.74
130-140	0.76
140-150	0.71
150-160	0.55
160-170	0.34
170-180	0.09

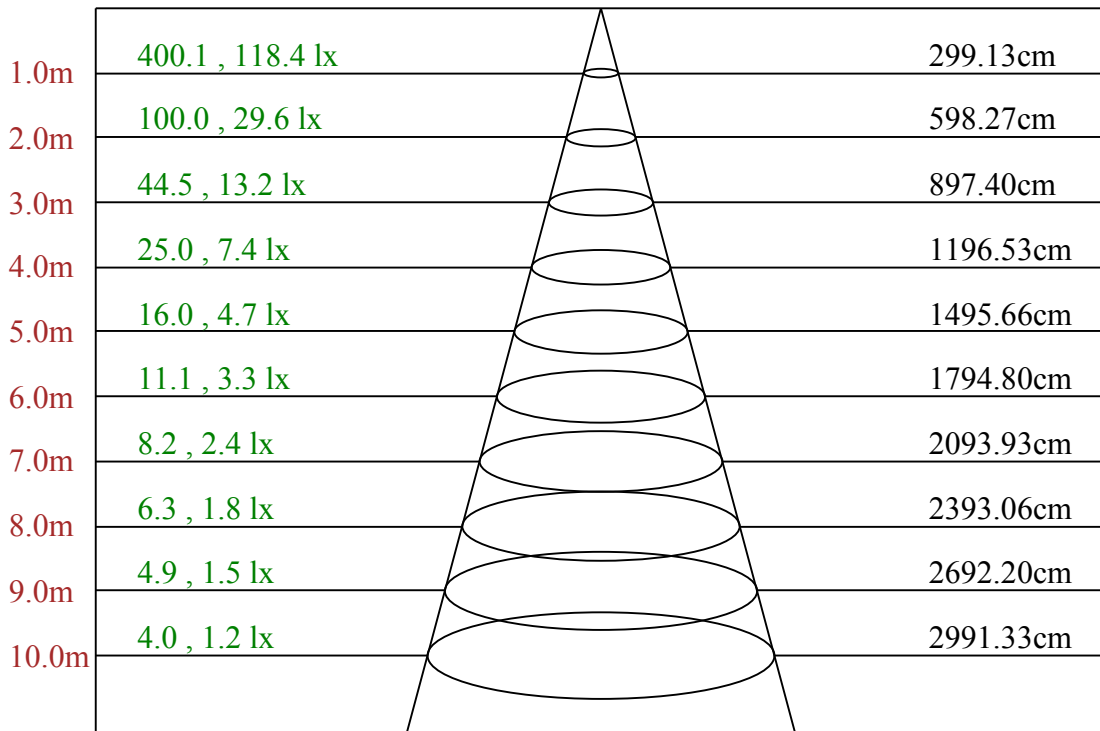


C0/C180: —

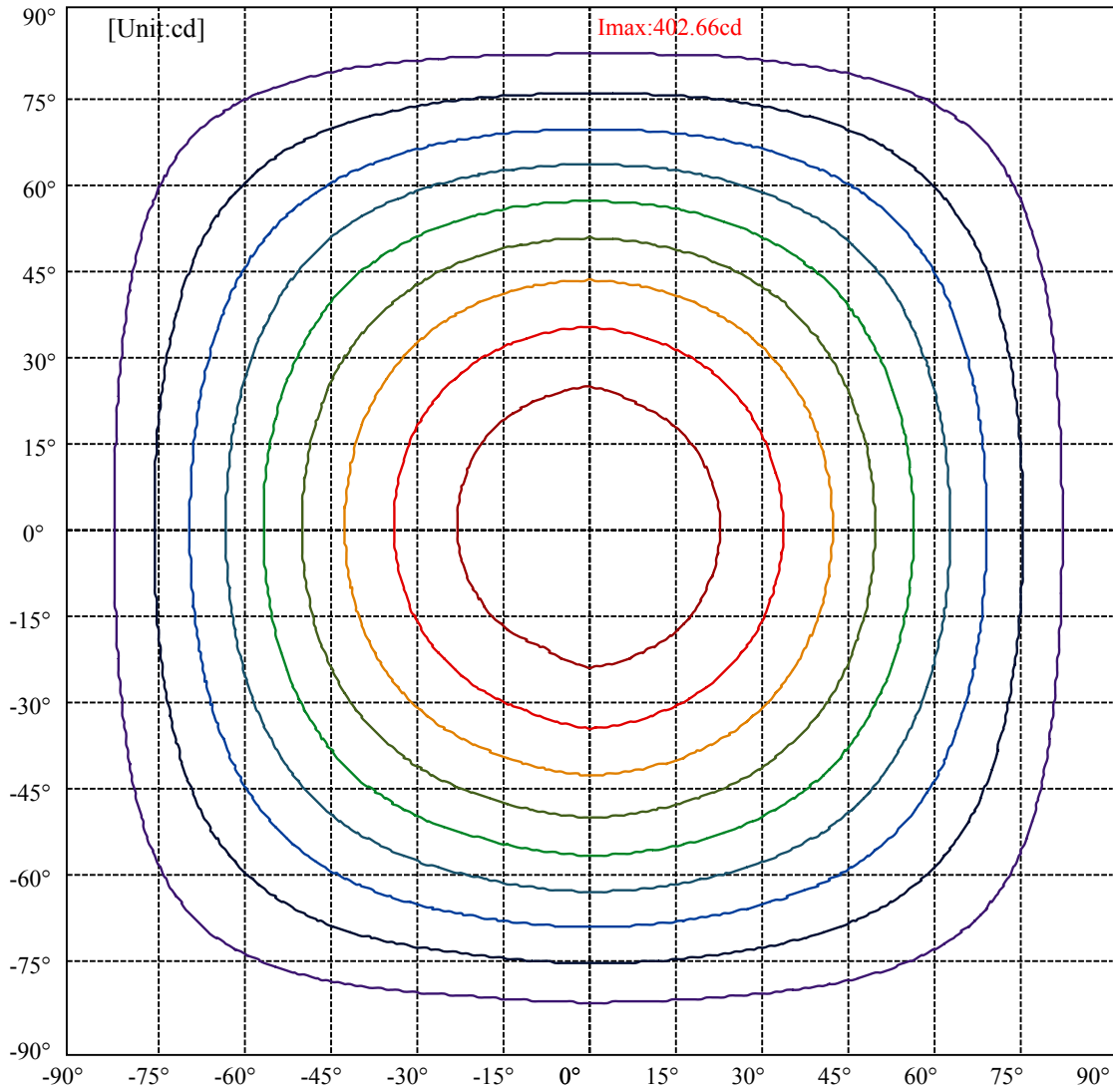
C90/C270: —

Field angle(10%Imax):C0/180Left:81.8 Right:81.2  
:C90/270Left:81.2 Right:81.8

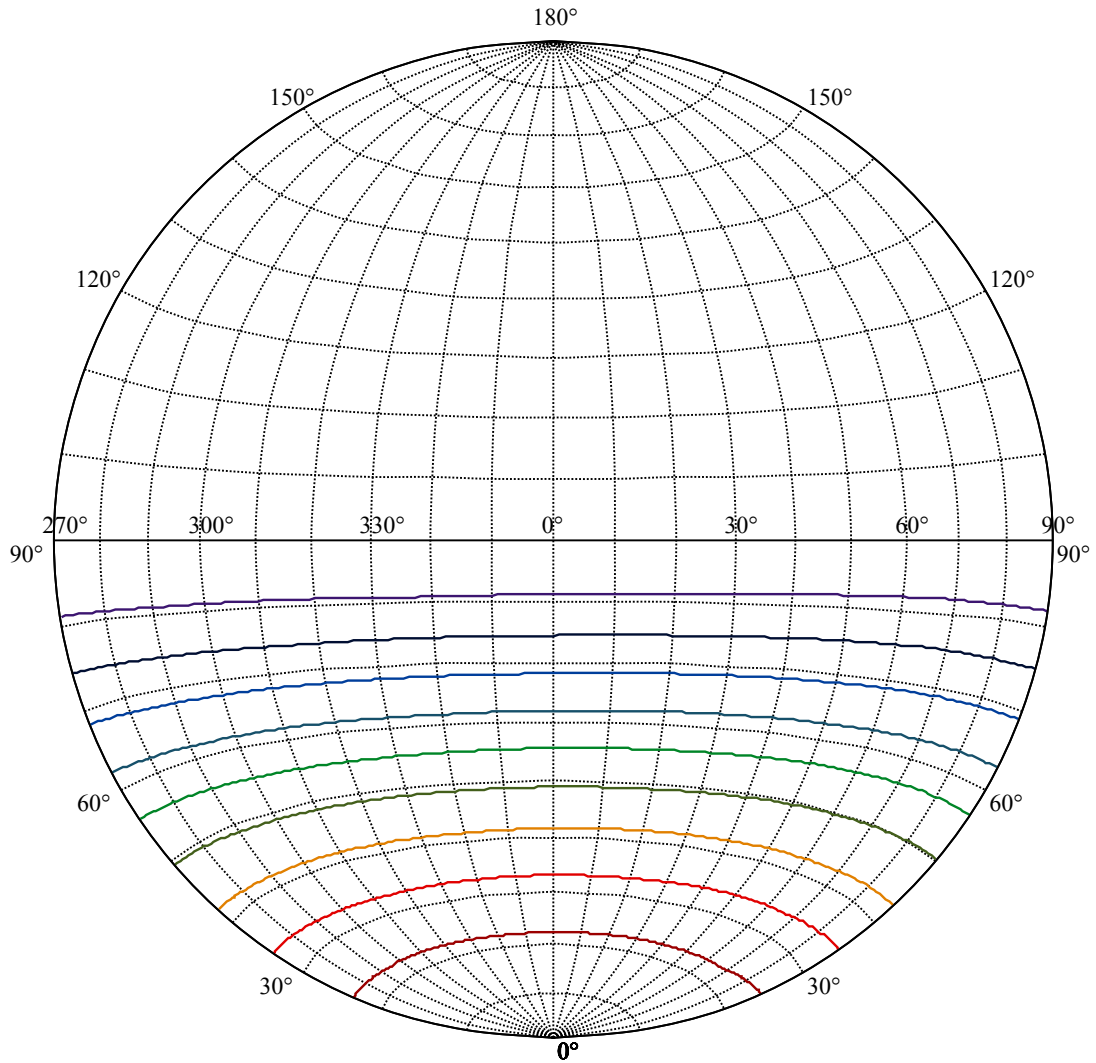
Beam Angle(50%Imax):C0/180Left:56.3 Right:55.9  
:C90/270Left:55.9 Right:56.5



Max , Ave      Beam angle of C90 plane 112.47



- (10%Imax) 40.2658
- (20%Imax) 80.5316
- (30%Imax) 120.797
- (40%Imax) 161.063
- (50%Imax) 201.329
- (60%Imax) 241.595
- (70%Imax) 281.861
- (80%Imax) 322.126
- (90%Imax) 362.392



House

[Unit:cd]

Road

I<sub>max</sub>:402.66

(10%I<sub>max</sub>) 40.2658

(20%I<sub>max</sub>) 80.5316

(30%I<sub>max</sub>) 120.797

(40%I<sub>max</sub>) 161.063

(50%I<sub>max</sub>) 201.329

(60%I<sub>max</sub>) 241.595

(70%I<sub>max</sub>) 281.861

(80%I<sub>max</sub>) 322.126

(90%I<sub>max</sub>) 362.392



## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	400.06	397.15	391.44	382.55	369.84	354.18	335.97	314.59	290.88
22.5	400.06	396.94	391.44	382.34	370.06	355.03	336.61	315.01	292.36
45.0	400.06	396.73	391.65	383.18	370.90	355.24	337.88	316.92	293.21
67.5	400.06	396.94	391.23	383.39	371.54	356.72	338.72	318.40	294.06
90.0	400.06	402.66	397.79	388.90	376.62	361.16	343.17	321.58	297.65
112.5	400.06	399.91	395.25	386.57	374.29	359.47	341.05	320.09	295.96
135.0	400.06	399.27	393.98	385.30	373.66	358.41	340.21	319.04	296.17
157.5	400.06	398.42	392.92	384.88	372.39	357.14	339.78	318.19	294.90
180.0	400.06	397.58	392.07	383.18	371.11	355.24	337.67	316.71	292.79
202.5	400.06	396.73	391.44	382.34	369.84	354.81	335.97	314.59	291.51
225.0	400.06	395.88	389.96	380.85	368.57	352.91	334.49	312.47	289.40
247.5	400.06	395.46	389.74	380.22	367.52	352.06	333.43	311.84	287.70
270.0	400.06	402.45	396.52	386.99	374.29	357.57	339.57	318.19	293.42
292.5	400.06	399.48	393.56	383.82	371.54	355.24	336.40	315.23	290.88
315.0	400.06	398.42	392.50	382.97	370.69	354.60	335.55	313.53	290.24
337.5	400.06	397.58	391.86	382.34	369.84	353.76	335.34	313.96	289.61
360.0	400.06	397.15	391.44	382.55	369.84	354.18	335.97	314.59	290.88
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	264.21	235.84	205.56	173.17	141.84	108.60	76.85	46.79	19.27
22.5	265.69	236.90	206.83	175.29	143.96	110.72	78.54	47.85	20.75
45.0	267.17	239.22	209.16	177.20	144.81	112.84	80.66	50.17	22.23
67.5	269.07	240.49	210.64	178.89	147.13	113.68	82.14	51.87	23.92
90.0	270.98	242.82	211.07	179.31	147.35	113.26	80.45	49.75	23.29
112.5	270.56	241.76	210.43	178.47	146.92	113.05	81.51	50.81	23.29
135.0	269.50	240.92	209.80	180.37	146.50	113.05	81.29	51.23	23.29
157.5	268.23	240.71	209.59	178.25	145.86	113.47	81.08	50.39	22.86
180.0	266.53	238.59	208.10	177.41	145.23	112.20	79.60	49.75	22.02
202.5	265.05	236.68	205.99	175.29	142.90	110.09	78.97	48.06	20.54
225.0	263.15	234.14	204.51	172.54	140.36	108.39	76.43	46.36	19.05
247.5	260.82	232.66	201.96	170.00	139.94	105.64	73.88	43.61	18.42
270.0	266.32	238.38	207.05	175.29	142.26	109.45	77.06	46.58	19.48
292.5	263.99	234.78	204.93	172.75	140.15	106.70	75.79	45.52	18.63
315.0	263.57	234.36	203.45	172.54	140.15	106.91	74.94	45.73	18.63
337.5	263.78	234.57	203.87	171.48	141.21	107.55	76.00	45.09	17.78
360.0	264.21	235.84	205.56	173.17	141.84	108.60	76.85	46.79	19.27
C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.64	0.64	0.64	0.64	0.64	0.85	1.06	0.85	1.06
22.5	0.42	0.64	0.64	0.85	0.64	1.06	0.85	1.06	1.06
45.0	0.85	0.42	0.85	0.64	0.85	1.06	0.85	0.85	1.06
67.5	1.06	0.64	0.64	0.85	0.85	0.85	0.85	0.85	1.06
90.0	0.64	0.21	0.42	0.85	0.64	0.64	0.64	1.06	0.85
112.5	1.06	0.21	0.42	0.42	0.42	0.42	0.64	0.64	0.85
135.0	0.85	0.21	0.21	0.42	0.42	0.42	0.42	0.64	0.85
157.5	0.64	0.21	0.21	0.42	0.42	0.64	0.42	0.42	0.85
180.0	0.42	0.21	0.42	0.42	0.42	0.42	0.42	0.21	0.42
202.5	0.21	0.21	0.42	0.42	0.42	0.42	0.64	0.85	0.64
225.0	0.42	0.21	0.21	0.21	0.21	0.42	0.42	0.64	0.64
247.5	0.21	0.21	0.21	0.21	0.42	0.42	0.64	0.64	0.64
270.0	1.06	0.85	1.06	1.27	1.06	1.27	1.48	1.69	1.69
292.5	0.64	0.64	0.64	0.85	1.06	0.85	1.06	1.06	1.27
315.0	0.64	0.64	0.85	0.85	0.85	0.85	0.85	0.85	1.06
337.5	0.64	0.64	0.64	0.85	0.64	0.85	0.85	0.64	1.06
360.0	0.64	0.64	0.64	0.64	0.64	0.85	1.06	0.85	1.06



LB6R-32K-3000K

Intensity data(cd)

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.64	1.06	1.06	1.06	1.27	1.06	1.06	1.06	1.27
22.5	1.27	1.06	1.27	1.27	1.27	1.27	1.27	1.27	1.27
45.0	1.06	1.27	1.27	1.27	1.27	1.27	1.27	1.06	1.27
67.5	0.85	1.27	1.27	1.06	1.27	1.27	1.06	1.06	1.06
90.0	0.85	1.27	1.27	1.06	1.27	1.27	1.27	1.48	1.27
112.5	0.85	1.06	1.06	1.06	1.06	1.06	1.48	1.27	1.27
135.0	0.85	1.06	1.27	1.06	1.06	1.06	1.06	1.06	1.27
157.5	0.64	0.85	0.85	0.85	1.06	1.06	1.06	1.27	1.27
180.0	1.06	0.85	0.85	0.85	1.27	1.27	1.06	1.27	1.27
202.5	0.85	0.85	1.06	1.06	1.06	1.06	1.06	1.06	1.06
225.0	0.85	0.85	1.06	0.85	1.06	1.06	1.27	1.06	1.27
247.5	0.64	0.85	1.06	0.85	1.06	1.06	1.27	1.27	1.06
270.0	1.69	1.69	1.48	1.69	1.69	1.69	1.69	1.91	1.69
292.5	1.27	1.27	1.48	1.27	1.27	1.06	1.27	1.06	1.27
315.0	1.06	1.06	1.06	1.06	1.48	1.27	1.27	1.06	1.27
337.5	1.06	0.85	1.27	1.27	1.27	1.27	1.27	1.27	1.27
360.0	0.64	1.06	1.06	1.06	1.27	1.06	1.06	1.06	1.27

C/γ(°)	180.0
0.0	1.31
22.5	1.31
45.0	1.31
67.5	1.31
90.0	1.31
112.5	1.31
135.0	1.31
157.5	1.31
180.0	1.31
202.5	1.31
225.0	1.31
247.5	1.31
270.0	1.31
292.5	1.31
315.0	1.31
337.5	1.31
360.0	1.31