



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LSG3-27K-15D

Luminaire:

Report No:

Voltage(V): 120.16

Test No:

Current(A): 0.0613

LampCAT:

Power (W): 7.1760

Lamp flux(lm): 516.7

PF: 0.9748

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 516.68

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 72.00

Central intensity(cd): 2217.991

Maximum intensity(cd): 2217.991

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=18.5

[C90/270]Total=19.7

Field angle(10%Imax): [C0/180]Total=39.2

[C90/270]Total=40.5

Maximum s/h(1/2): C0_180=0.34 C90_270=0.28

Maximum s/h(1/4): C0_180=0.49 C90_270=0.28

Up flux rate of lamp(%): 0.23%

Down flux rate of lamp(%): 99.77%

Up flux rate of LUM(%): 0.23%

Down flux rate of LUM(%): 99.77%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 92.463%

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

Date:
Humidity(%): 58%

Operator: Zac

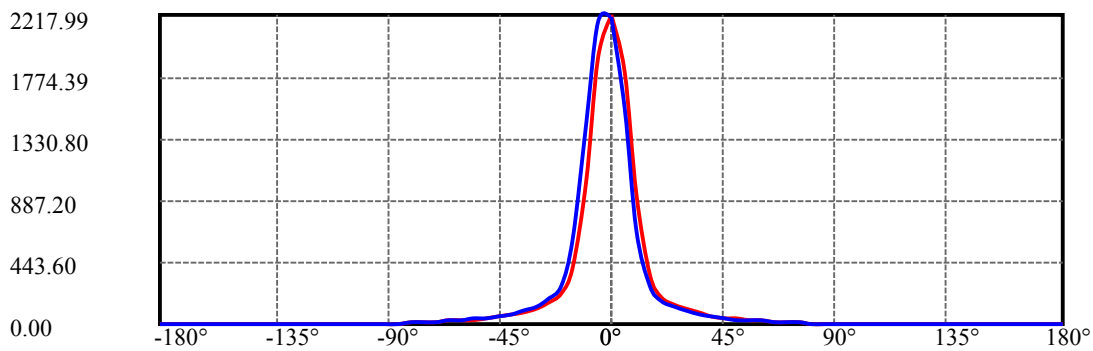
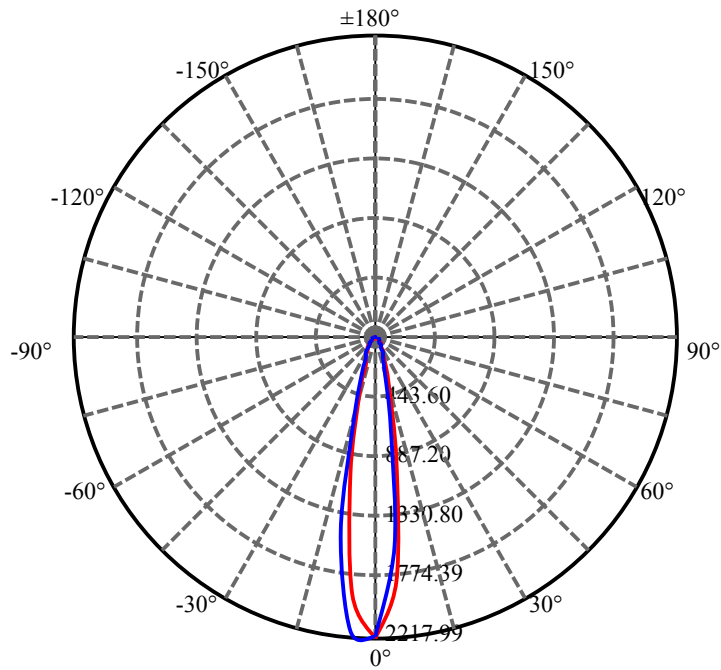
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2202.907	.000	.000	.000%	.000%
5.0	1848.026	48.428	48.428	9.373%	9.373%
10.0	1012.006	102.312	150.740	19.802%	29.175%
15.0	413.673	84.570	235.310	16.368%	45.542%
20.0	215.086	51.819	287.129	10.029%	55.571%
25.0	147.003	37.976	325.105	7.350%	62.922%
30.0	108.521	32.337	357.442	6.259%	69.180%
35.0	81.288	27.951	385.393	5.410%	74.590%
40.0	62.729	24.028	409.421	4.650%	79.240%
45.0	49.576	20.794	430.215	4.025%	83.265%
50.0	39.846	18.069	448.284	3.497%	86.762%
55.0	32.562	15.744	464.028	3.047%	89.809%
60.0	26.770	13.714	477.742	2.654%	92.463%
65.0	21.725	11.789	489.532	2.282%	94.745%
70.0	17.169	9.848	499.380	1.906%	96.651%
75.0	12.201	7.677	507.057	1.486%	98.137%
80.0	7.130	5.173	512.229	1.001%	99.138%
85.0	2.343	2.574	514.803	.498%	99.636%
90.0	.155	.684	515.487	.132%	99.768%
95.0	.077	.063	515.550	.012%	99.781%
100.0	.077	.042	515.592	.008%	99.789%
105.0	.077	.041	515.634	.008%	99.797%
110.0	.103	.047	515.681	.009%	99.806%
115.0	.103	.052	515.733	.010%	99.816%
120.0	.129	.056	515.789	.011%	99.827%
125.0	.103	.054	515.843	.010%	99.837%
130.0	.129	.050	515.893	.010%	99.847%
135.0	.129	.052	515.945	.010%	99.857%
140.0	.206	.062	516.007	.012%	99.869%
145.0	.335	.090	516.098	.017%	99.886%
150.0	.361	.102	516.200	.020%	99.906%
155.0	.489	.108	516.307	.021%	99.927%
160.0	.644	.119	516.426	.023%	99.950%
165.0	.670	.108	516.534	.021%	99.971%
170.0	.747	.084	516.618	.016%	99.987%
175.0	.618	.049	516.667	.009%	99.997%
180.0	.773	.017	516.684	.003%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	357.44	69.18%	69.18%
0-40	409.42	79.24%	79.24%
0-60	477.74	92.46%	92.46%
0-90	515.49	99.77%	99.77%
0-120	515.79	99.83%	99.83%
0-180	516.68	100.00%	100.00%
60-90	51.46	9.96%	9.96%
90-120	0.99	0.19%	0.19%
90-130	1.09	0.21%	0.21%
90-150	1.40	0.27%	0.27%
90-180	1.86	0.36%	0.36%
0-40.94	413.35	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	150.74
10-20	136.39
20-30	70.31
30-40	51.98
40-50	38.86
50-60	29.46
60-70	21.64
70-80	12.85
80-90	3.26
90-100	0.11
100-110	0.09
110-120	0.11
120-130	0.10
130-140	0.11
140-150	0.19
150-160	0.23
160-170	0.19
170-180	0.05



C0/C180: —

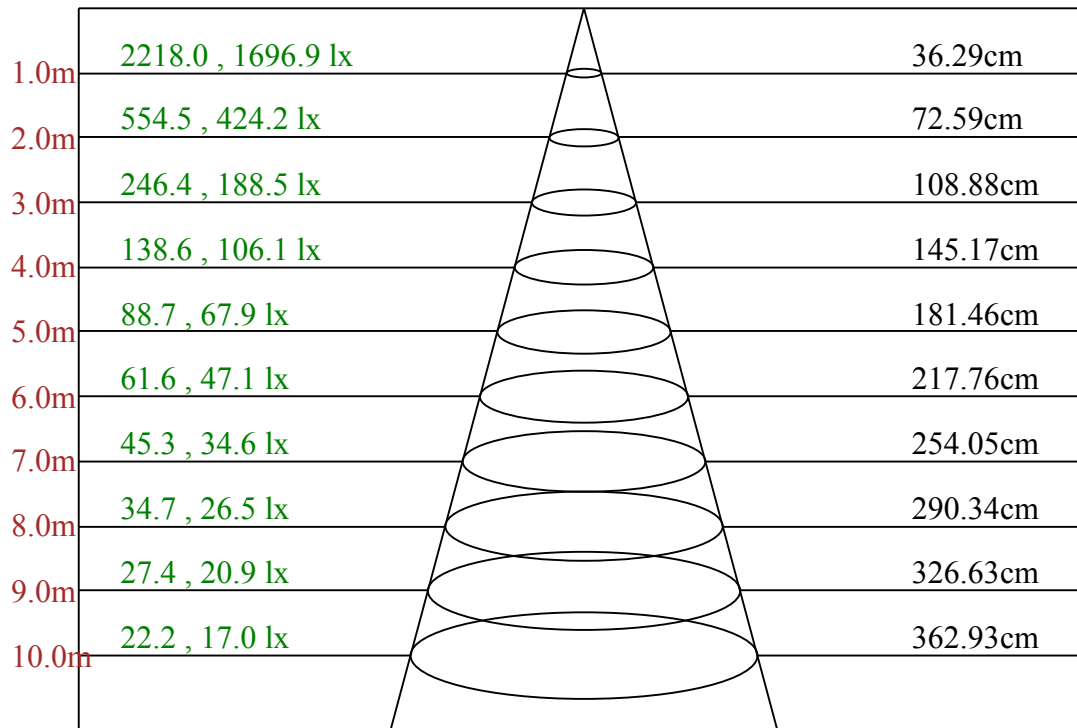
C90/C270: —

Field angle(10%Imax):C0/180Left:19.9 Right:19.3

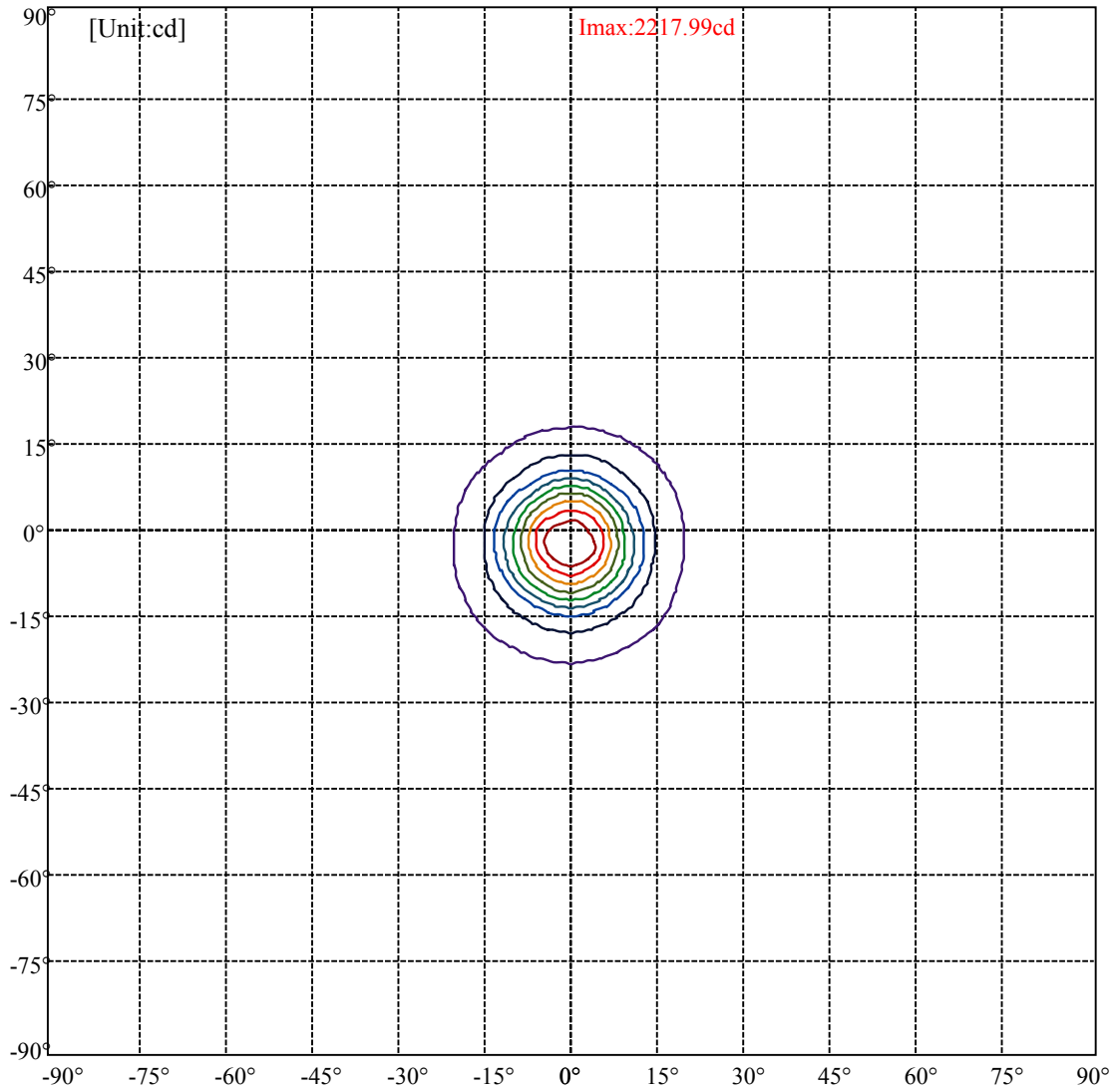
:C90/270Left:22.9 Right:17.6

Beam Angle(50%Imax):C0/180Left:9.6 Right:9.0

:C90/270Left:12.1 Right:7.6



Max , Ave Beam angle of C0plane20.57



(10%Imax) 219.946	—
(20%Imax) 439.892	—
(30%Imax) 659.837	—
(40%Imax) 879.783	—
(50%Imax) 1099.73	—
(60%Imax) 1319.67	—
(70%Imax) 1539.62	—
(80%Imax) 1759.57	—
(90%Imax) 1979.51	—

Intensity data(cd)

C/ γ ($^{\circ}$)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2217.99	1799.56	930.15	363.87	198.30	143.94	106.87	79.69	60.95
45.0	2210.99	1620.20	703.43	300.24	177.51	125.00	92.25	69.60	54.57
90.0	2199.46	1547.30	674.81	273.67	170.92	123.55	90.40	67.95	53.54
135.0	2183.19	1595.90	714.76	285.41	168.86	118.61	88.96	67.95	54.98
180.0	2217.99	1898.19	1033.53	411.23	218.69	152.18	114.08	87.11	66.93
225.0	2210.99	2081.88	1319.35	544.25	256.79	170.71	124.79	91.43	68.78
270.0	2199.46	2166.10	1446.19	616.33	280.47	175.65	127.47	94.93	73.10
315.0	2183.19	2075.08	1273.84	514.39	249.17	166.39	123.35	91.64	68.98
360.0	2217.99	1799.56	930.15	363.87	198.30	143.94	106.87	79.69	60.95
C/ γ ($^{\circ}$)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	47.77	37.89	30.68	24.92	20.59	16.89	11.74	6.59	2.06
45.0	43.45	35.21	28.83	23.48	18.74	14.62	10.30	5.77	1.03
90.0	42.42	34.39	28.62	24.09	19.15	14.42	9.88	5.15	1.03
135.0	44.48	36.86	30.27	25.12	19.97	15.44	10.30	5.56	1.24
180.0	52.30	41.39	33.98	27.59	22.45	17.92	12.77	7.62	1.85
225.0	54.36	43.66	35.83	29.45	24.09	19.36	14.00	8.44	3.71
270.0	57.66	45.72	36.86	30.27	24.92	19.77	14.62	9.27	4.12
315.0	54.16	43.66	35.42	29.24	23.89	18.95	14.00	8.65	3.71
360.0	47.77	37.89	30.68	24.92	20.59	16.89	11.74	6.59	2.06
C/ γ ($^{\circ}$)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.21	0.00	0.00	0.41	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.21	0.00	0.41	0.21	0.21	0.21
90.0	0.00	0.21	0.21	0.21	0.21	0.41	0.41	0.21	0.41
135.0	0.21	0.21	0.41	0.21	0.21	0.00	0.21	0.21	0.41
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
270.0	0.62	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00
315.0	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.21	0.00	0.00	0.41	0.00	0.00	0.00	0.00
C/ γ ($^{\circ}$)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.21	0.00	0.21	0.21	0.41	0.41	0.41	0.41	0.41
45.0	0.21	0.41	0.41	0.62	0.82	0.62	0.82	0.82	0.62
90.0	0.21	0.41	0.62	0.62	0.62	1.03	0.82	0.82	0.62
135.0	0.21	0.41	0.62	0.62	0.62	0.82	0.82	1.03	0.82
180.0	0.00	0.21	0.21	0.21	0.41	0.41	0.62	0.62	0.62
225.0	0.00	0.00	0.21	0.41	0.62	0.41	0.62	0.62	0.62
270.0	0.21	0.00	0.21	0.00	0.00	0.62	0.62	0.82	0.41
315.0	0.00	0.21	0.21	0.21	0.41	0.82	0.62	0.82	0.82
360.0	0.21	0.00	0.21	0.21	0.41	0.41	0.41	0.41	0.41
C/ γ ($^{\circ}$)	180.0								
0.0	0.62								
45.0	1.03								
90.0	0.82								
135.0	0.62								
180.0	0.62								
225.0	1.03								
270.0	0.82								
315.0	0.62								
360.0	0.62								