



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LSG3-40K-15D

Luminaire:

Report No:

Voltage(V): 120.16

Test No:

Current(A): 0.0613

LampCAT:

Power (W): 7.1760

Lamp flux(lm): 565.3

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): 565.30

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 78.78

Central intensity(cd): 2426.708

Maximum intensity(cd): 2426.708

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

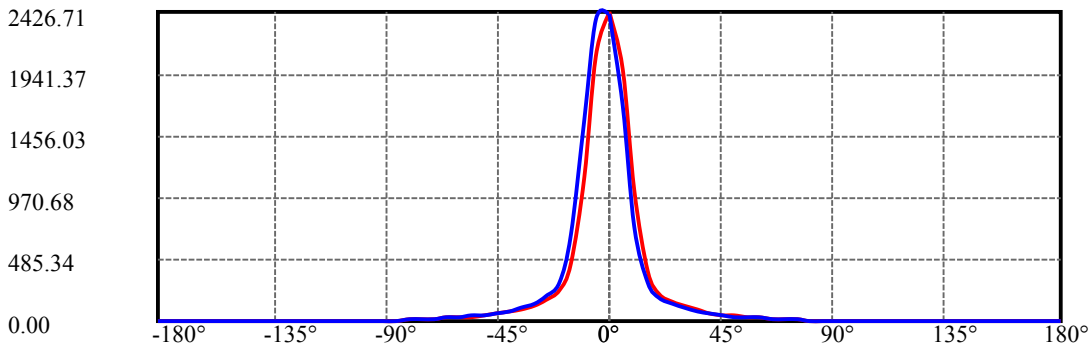
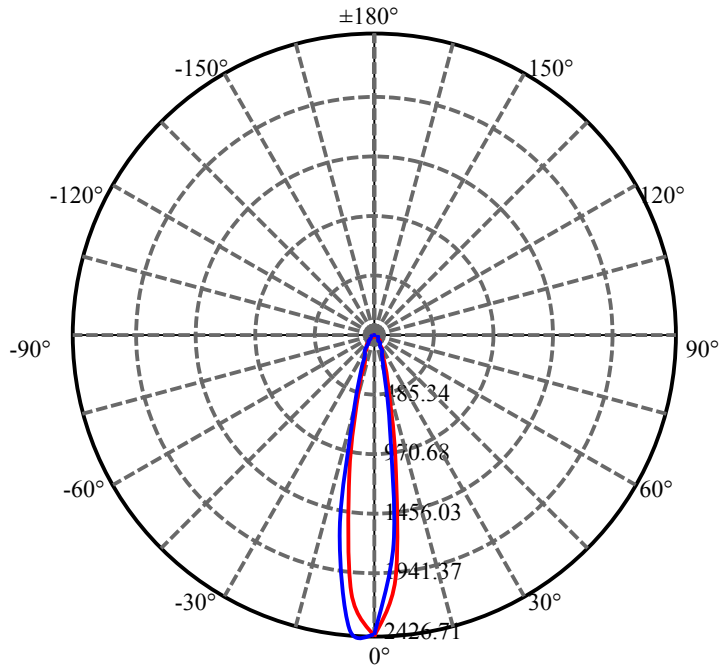
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2410.204	.000	.000	.000%	.000%
5.0	2021.927	52.985	52.985	9.373%	9.373%
10.0	1107.238	111.940	164.925	19.802%	29.175%
15.0	452.600	92.529	257.454	16.368%	45.542%
20.0	235.326	56.695	314.148	10.029%	55.572%
25.0	160.836	41.550	355.698	7.350%	62.922%
30.0	118.733	35.380	391.078	6.259%	69.180%
35.0	88.937	30.581	421.659	5.410%	74.590%
40.0	68.632	26.289	447.948	4.650%	79.240%
45.0	54.241	22.751	470.699	4.025%	83.265%
50.0	43.596	19.769	490.469	3.497%	86.762%
55.0	35.626	17.225	507.694	3.047%	89.809%
60.0	29.289	15.005	522.699	2.654%	92.463%
65.0	23.769	12.899	535.597	2.282%	94.745%
70.0	18.785	10.775	546.372	1.906%	96.651%
75.0	13.349	8.399	554.771	1.486%	98.137%
80.0	7.801	5.659	560.431	1.001%	99.138%
85.0	2.563	2.816	563.247	.498%	99.636%
90.0	.169	.748	563.995	.132%	99.768%
95.0	.084	.069	564.064	.012%	99.781%
100.0	.085	.046	564.110	.008%	99.789%
105.0	.084	.045	564.155	.008%	99.797%
110.0	.113	.051	564.207	.009%	99.806%
115.0	.113	.057	564.264	.010%	99.816%
120.0	.141	.062	564.325	.011%	99.827%
125.0	.113	.059	564.384	.010%	99.837%
130.0	.141	.055	564.439	.010%	99.847%
135.0	.141	.057	564.496	.010%	99.857%
140.0	.225	.068	564.564	.012%	99.869%
145.0	.366	.099	564.662	.017%	99.886%
150.0	.394	.112	564.774	.020%	99.906%
155.0	.535	.118	564.892	.021%	99.927%
160.0	.704	.130	565.022	.023%	99.950%
165.0	.732	.118	565.140	.021%	99.971%
170.0	.817	.092	565.232	.016%	99.987%
175.0	.676	.053	565.286	.009%	99.997%
180.0	.845	.018	565.304	.003%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	391.08	69.18%	69.18%
0-40	447.95	79.24%	79.24%
0-60	522.70	92.46%	92.46%
0-90	563.99	99.77%	99.77%
0-120	564.33	99.83%	99.83%
0-180	565.30	100.00%	100.00%
60-90	56.30	9.96%	9.96%
90-120	1.08	0.19%	0.19%
90-130	1.19	0.21%	0.21%
90-150	1.53	0.27%	0.27%
90-180	2.04	0.36%	0.36%
0-40.94	452.24	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	164.93
10-20	149.22
20-30	76.93
30-40	56.87
40-50	42.52
50-60	32.23
60-70	23.67
70-80	14.06
80-90	3.56
90-100	0.12
100-110	0.10
110-120	0.12
120-130	0.11
130-140	0.12
140-150	0.21
150-160	0.25
160-170	0.21
170-180	0.05



C0/C180: —

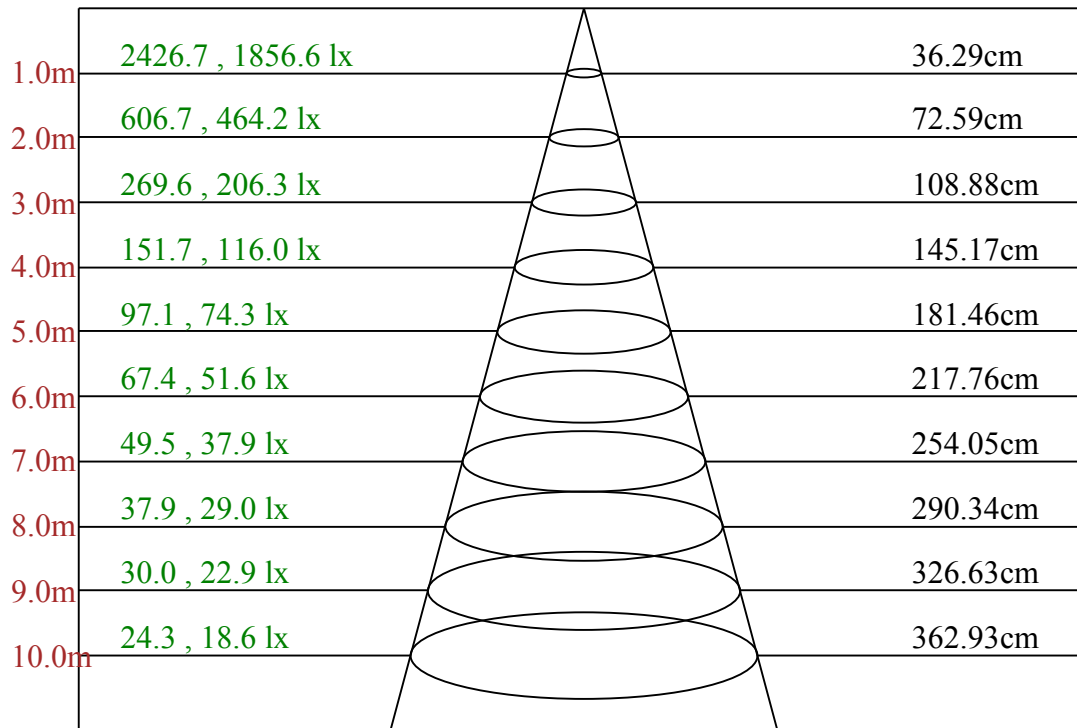
C90/C270: —

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

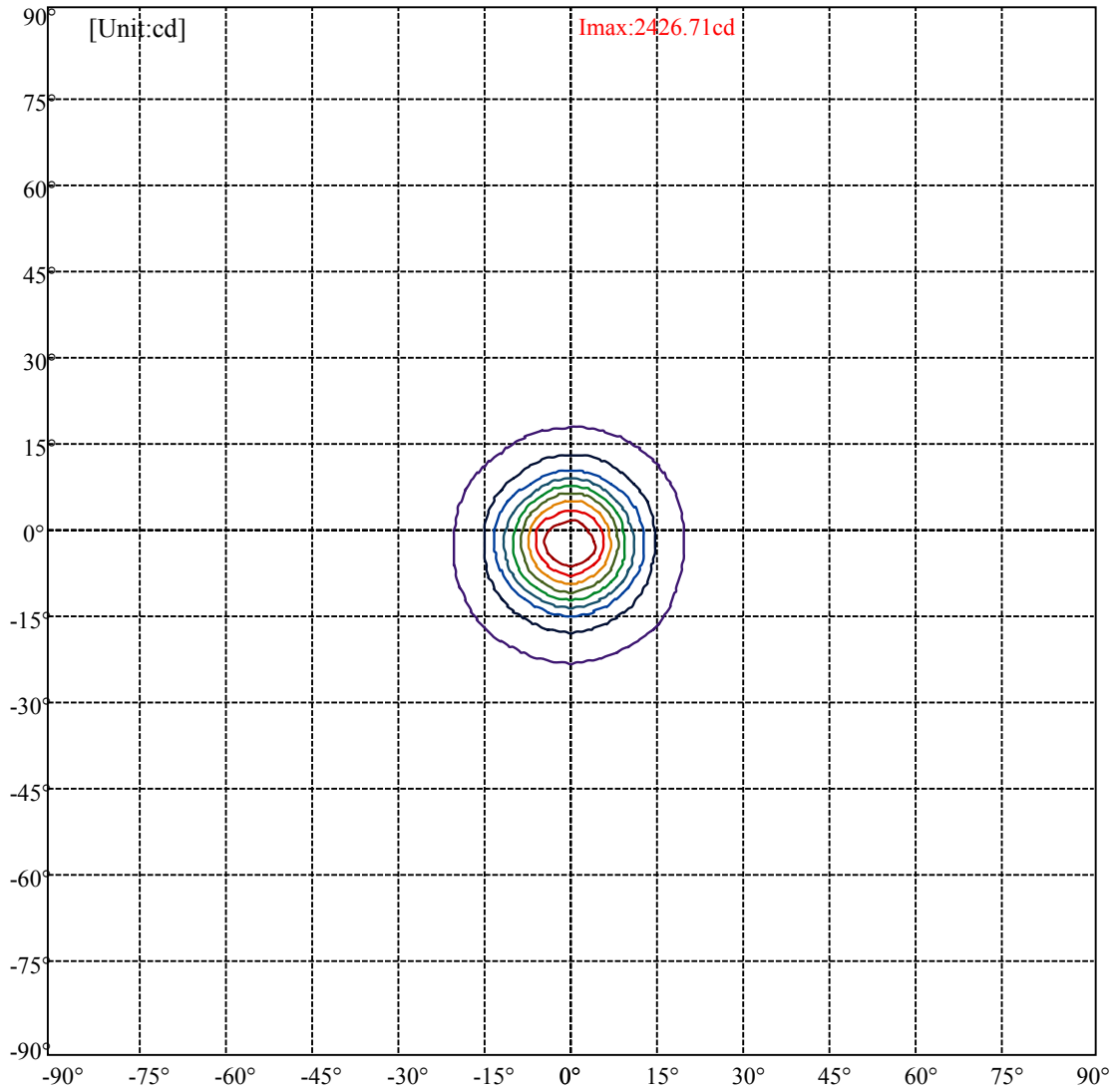
:C90/270Left:22.9 Right:17.6

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) 240.643	—
(20%Imax) 481.286	—
(30%Imax) 721.929	—
(40%Imax) 962.572	—
(50%Imax) 1203.21	—
(60%Imax) 1443.86	—
(70%Imax) 1684.5	—
(80%Imax) 1925.14	—
(90%Imax) 2165.79	—

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	2426.71	1968.90	1017.68	398.11	216.96	157.49	116.93	87.19	66.69
45.0	2419.05	1772.66	769.63	328.49	194.21	136.76	100.94	76.15	59.71
90.0	2406.43	1692.91	738.31	299.42	187.00	135.18	98.91	74.35	58.58
135.0	2388.63	1746.08	782.02	312.27	184.75	129.77	97.33	74.35	60.16
180.0	2426.71	2076.82	1130.78	449.92	239.27	166.50	124.82	95.30	73.22
225.0	2419.05	2277.78	1443.50	595.47	280.95	186.77	136.53	100.03	75.25
270.0	2406.43	2369.93	1582.28	674.32	306.86	192.18	139.46	103.86	79.98
315.0	2388.63	2270.35	1393.71	562.80	272.61	182.04	134.96	100.26	75.48
360.0	2426.71	1968.90	1017.68	398.11	216.96	157.49	116.93	87.19	66.69
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	52.27	41.46	33.57	27.26	22.53	18.48	12.84	7.21	2.25
45.0	47.54	38.53	31.54	25.68	20.50	16.00	11.27	6.31	1.13
90.0	46.41	37.63	31.32	26.36	20.95	15.77	10.81	5.63	1.13
135.0	48.67	40.33	33.12	27.49	21.85	16.90	11.27	6.08	1.35
180.0	57.23	45.29	37.18	30.19	24.56	19.60	13.97	8.34	2.03
225.0	59.48	47.76	39.20	32.22	26.36	21.18	15.32	9.24	4.06
270.0	63.08	50.02	40.33	33.12	27.26	21.63	16.00	10.14	4.51
315.0	59.25	47.76	38.75	31.99	26.14	20.73	15.32	9.46	4.06
360.0	52.27	41.46	33.57	27.26	22.53	18.48	12.84	7.21	2.25
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.23	0.00	0.00	0.45	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.23	0.00	0.45	0.23	0.23	0.23
90.0	0.00	0.23	0.23	0.23	0.23	0.45	0.45	0.23	0.45
135.0	0.23	0.23	0.45	0.23	0.23	0.00	0.23	0.23	0.45
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00
270.0	0.68	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00
315.0	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.23	0.00	0.00	0.45	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	0.23	0.00	0.23	0.23	0.45	0.45	0.45	0.45	0.45
45.0	0.23	0.45	0.45	0.68	0.90	0.68	0.90	0.90	0.68
90.0	0.23	0.45	0.68	0.68	0.68	1.13	0.90	0.90	0.68
135.0	0.23	0.45	0.68	0.68	0.68	0.90	0.90	1.13	0.90
180.0	0.00	0.23	0.23	0.23	0.45	0.45	0.68	0.68	0.68
225.0	0.00	0.00	0.23	0.45	0.68	0.45	0.68	0.68	0.68
270.0	0.23	0.00	0.23	0.00	0.00	0.68	0.68	0.90	0.45
315.0	0.00	0.23	0.23	0.23	0.45	0.90	0.68	0.90	0.90
360.0	0.23	0.00	0.23	0.23	0.45	0.45	0.45	0.45	0.45
C/ γ (°)	180.0								
0.0	0.68								
45.0	1.13								
90.0	0.90								
135.0	0.68								
180.0	0.68								
225.0	1.13								
270.0	0.90								
315.0	0.68								
360.0	0.68								