



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
www.bellingtest.com

Tel:0755-29351191 Fax:0755-29351120

Address:1 F,No.1 building,Meibaoh industrial park,Dalang street,Longhua district,Shenzhen,China

LumCAT: LL4RBX-30K

Luminaire:

Report No:

Voltage(V): 120.06

Test No:

Current(A): 0.093

LampCAT:

Power (W): 10.9310

Lamp flux(lm): 634.2

PF: 0.979

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 634.15

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 58.01

Central intensity(cd): 244.941

Maximum intensity(cd): 244.941

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=105.2

[C90/270]Total=105.2

Field angle(10%Imax): [C0/180]Total=157.5

[C90/270]Total=158.0

Maximum s/h(1/2): C0_180=1.26 C90_270=1.20

Maximum s/h(1/4): C0_180=1.80 C90_270=1.30

Up flux rate of lamp(%): 0.85%

Down flux rate of lamp(%): 99.15%

Up flux rate of LUM(%): 0.85%

Down flux rate of LUM(%): 99.15%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 79.750%

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

Date:
Humidity(%): 58%

Operator: Zac

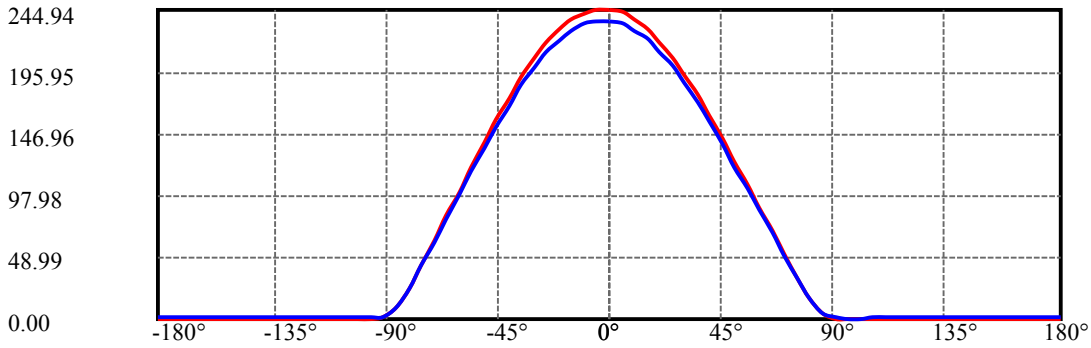
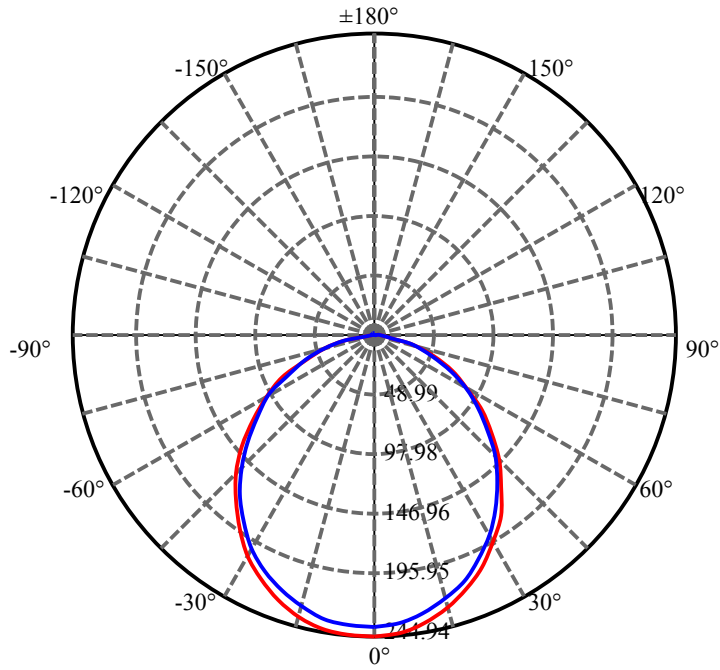
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	237.766	.000	.000	.000%	.000%
5.0	236.374	5.668	5.668	.894%	.894%
10.0	232.471	16.772	22.440	2.645%	3.539%
15.0	226.032	27.198	49.638	4.289%	7.828%
20.0	217.543	36.557	86.195	5.765%	13.592%
25.0	206.702	44.496	130.691	7.017%	20.609%
30.0	194.022	50.712	181.403	7.997%	28.605%
35.0	179.435	54.994	236.397	8.672%	37.278%
40.0	163.470	57.211	293.608	9.022%	46.299%
45.0	146.466	57.387	350.995	9.049%	55.349%
50.0	128.594	55.580	406.575	8.764%	64.113%
55.0	110.868	52.067	458.642	8.210%	72.324%
60.0	92.878	47.095	505.737	7.426%	79.750%
65.0	74.218	40.621	546.358	6.406%	86.156%
70.0	55.664	32.887	579.245	5.186%	91.342%
75.0	37.280	24.294	603.540	3.831%	95.173%
80.0	20.394	15.432	618.972	2.433%	97.606%
85.0	7.267	7.516	626.488	1.185%	98.791%
90.0	.959	2.252	628.740	.355%	99.146%
95.0	.723	.461	629.201	.073%	99.219%
100.0	.736	.396	629.597	.063%	99.282%
105.0	.736	.394	629.991	.062%	99.344%
110.0	.749	.388	630.379	.061%	99.405%
115.0	.854	.406	630.785	.064%	99.469%
120.0	.828	.409	631.194	.064%	99.533%
125.0	.894	.398	631.592	.063%	99.596%
130.0	.986	.409	632.001	.064%	99.661%
135.0	.920	.385	632.386	.061%	99.721%
140.0	.920	.341	632.726	.054%	99.775%
145.0	.959	.314	633.040	.049%	99.824%
150.0	.986	.286	633.326	.045%	99.870%
155.0	.946	.244	633.571	.039%	99.908%
160.0	1.051	.210	633.780	.033%	99.941%
165.0	.959	.166	633.946	.026%	99.967%
170.0	.959	.114	634.060	.018%	99.985%
175.0	.986	.070	634.130	.011%	99.996%
180.0	.972	.023	634.153	.004%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	181.40	28.61%	28.61%
0-40	293.61	46.30%	46.30%
0-60	505.74	79.75%	79.75%
0-90	628.74	99.15%	99.15%
0-120	631.19	99.53%	99.53%
0-180	634.15	100.00%	100.00%
60-90	170.10	26.82%	26.82%
90-120	4.71	0.74%	0.74%
90-130	5.51	0.87%	0.87%
90-150	6.84	1.08%	1.08%
90-180	7.64	1.21%	1.21%
0-60.20	507.32	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	22.44
10-20	63.75
20-30	95.21
30-40	112.21
40-50	112.97
50-60	99.16
60-70	73.51
70-80	39.73
80-90	9.77
90-100	0.86
100-110	0.78
110-120	0.81
120-130	0.81
130-140	0.73
140-150	0.60
150-160	0.45
160-170	0.28
170-180	0.07

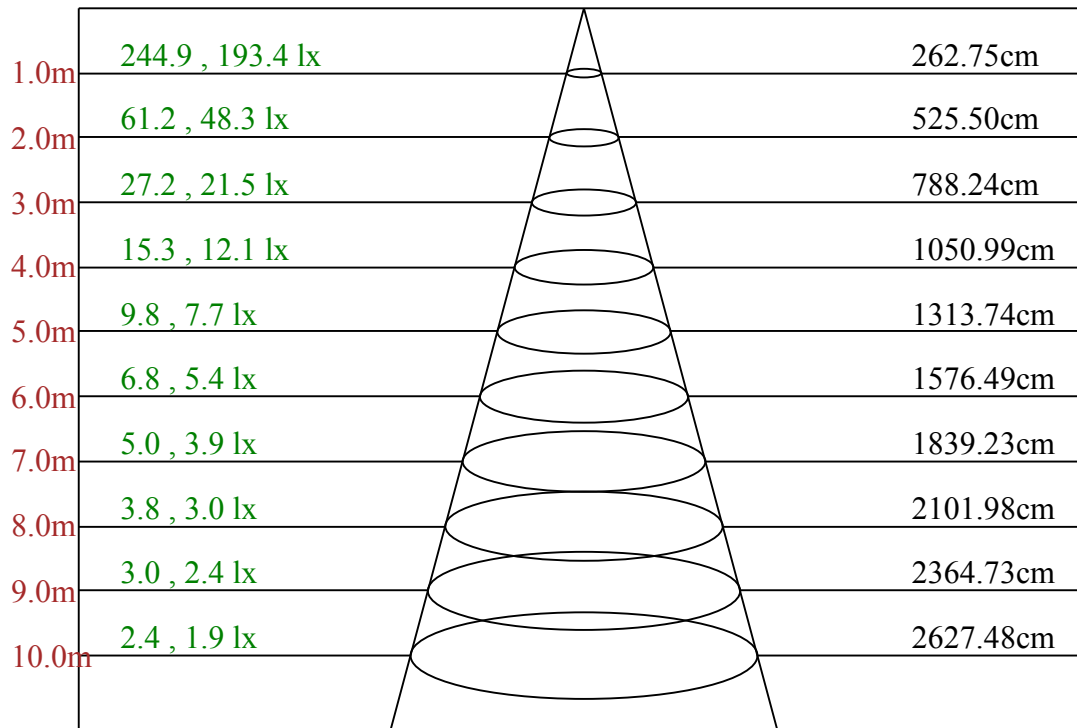


C0/C180: —

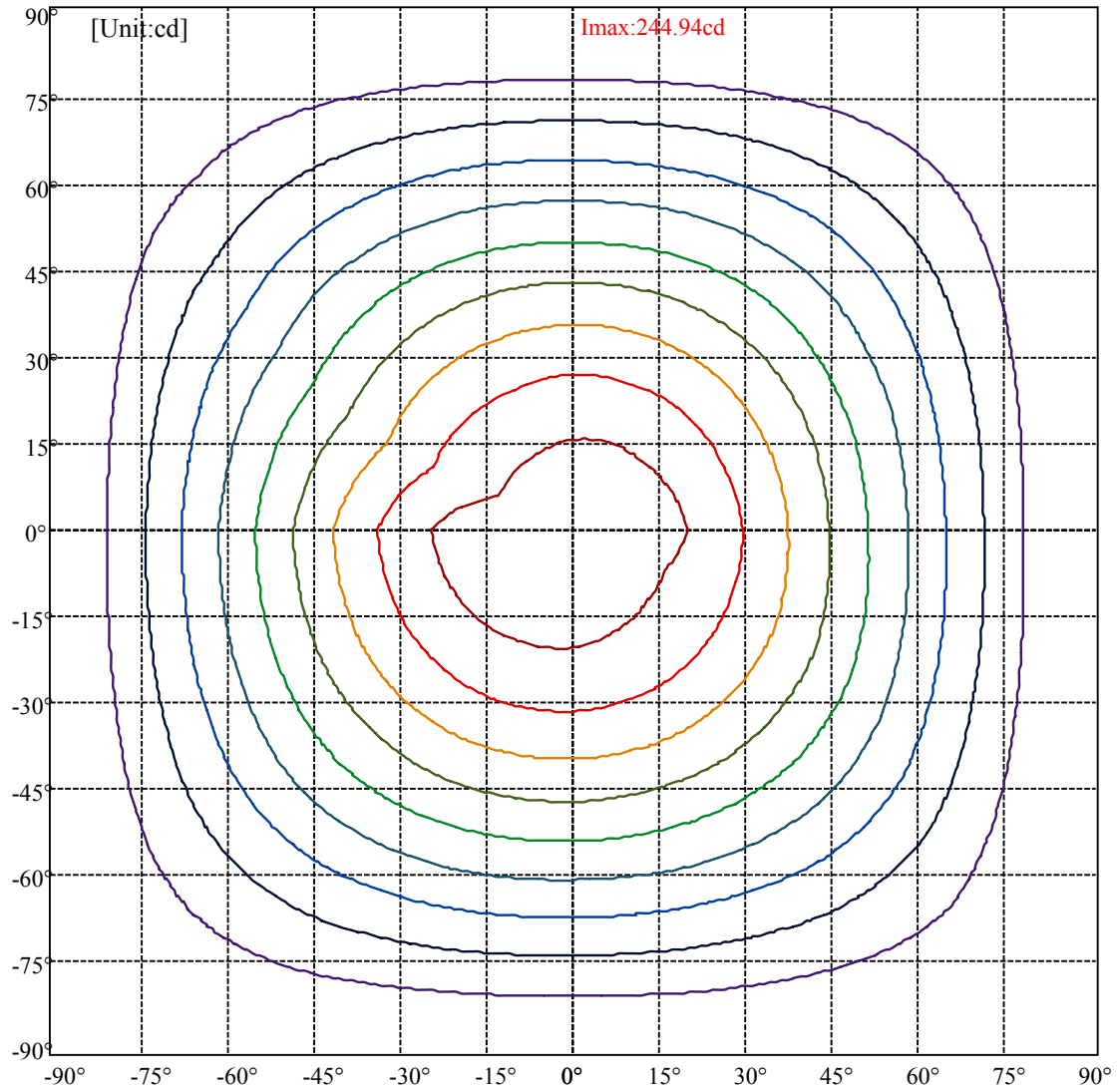
C90/C270: —

Field angle(10%Imax):C0/180Left:80.1 Right:77.4
:C90/270Left:80.3 Right:77.7

Beam Angle(50%Imax):C0/180Left:54.5 Right:50.7
:C90/270Left:54.6 Right:50.6



Max , Ave Beam angle of C0plane105.28



(10%Imax) 24.4899	—
(20%Imax) 48.9798	—
(30%Imax) 73.4697	—
(40%Imax) 97.9596	—
(50%Imax) 122.45	—
(60%Imax) 146.939	—
(70%Imax) 171.429	—
(80%Imax) 195.919	—
(90%Imax) 220.409	—

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	244.94	242.84	237.16	229.38	219.71	207.52	193.64	178.29	160.84
22.5	242.00	239.48	234.01	225.81	216.77	203.94	190.07	174.72	159.16
45.0	239.48	236.74	231.91	223.92	213.61	202.47	188.81	173.25	156.43
67.5	238.21	234.85	230.43	222.87	213.19	201.00	187.54	172.83	156.22
90.0	236.53	234.22	228.96	221.39	212.14	200.58	187.12	172.62	156.01
112.5	235.48	232.96	226.86	219.71	210.46	198.48	185.86	171.35	155.38
135.0	233.17	230.86	226.02	219.29	209.83	198.69	185.86	171.35	155.38
157.5	232.33	230.22	225.81	219.08	210.04	198.90	186.07	170.93	155.80
180.0	244.94	244.73	242.21	237.16	229.17	218.87	206.68	191.54	175.14
202.5	242.00	241.58	239.48	233.59	226.44	216.77	203.94	189.23	173.67
225.0	239.48	239.48	236.95	231.49	224.34	214.25	201.84	187.75	171.77
247.5	238.21	237.37	235.06	229.80	222.45	212.35	200.79	186.28	170.51
270.0	236.53	236.32	234.01	228.54	220.76	210.88	199.11	185.02	169.04
292.5	235.48	235.06	231.70	226.44	218.66	209.20	197.22	183.55	168.20
315.0	233.17	232.96	230.01	224.34	216.98	207.10	195.53	181.87	166.52
337.5	232.33	232.33	228.96	223.71	216.14	206.26	194.27	180.40	165.47
360.0	244.94	242.84	237.16	229.38	219.71	207.52	193.64	178.29	160.84
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	143.39	124.89	107.23	88.94	69.80	51.30	32.59	15.98	4.00
22.5	141.08	122.16	104.92	87.25	68.96	50.25	32.38	16.40	4.42
45.0	140.24	121.74	104.28	86.20	68.54	50.04	31.96	15.98	4.63
67.5	138.98	120.89	103.86	86.20	67.91	50.46	32.38	15.98	4.84
90.0	138.35	120.26	103.23	86.41	68.33	50.25	32.17	16.19	5.05
112.5	138.77	121.10	103.86	86.83	68.96	50.88	32.80	16.61	5.47
135.0	138.35	121.74	104.28	87.04	68.54	50.88	33.64	17.03	5.26
157.5	139.19	121.95	105.13	87.67	69.80	51.51	33.64	17.66	5.68
180.0	158.11	139.82	120.68	101.13	82.42	62.23	42.68	24.81	9.46
202.5	156.01	137.92	119.42	100.71	81.37	61.60	43.10	24.81	9.67
225.0	154.53	136.45	119.00	100.08	80.32	61.81	42.89	25.02	10.09
247.5	153.48	136.24	117.74	99.66	79.69	61.18	42.47	24.60	10.30
270.0	152.85	135.40	116.69	98.19	79.69	60.55	41.84	24.60	9.88
292.5	151.17	133.30	115.43	97.77	78.21	59.71	41.42	24.60	9.46
315.0	150.12	132.25	114.80	96.51	77.79	59.50	40.58	23.34	9.04
337.5	148.86	131.41	113.33	95.45	77.16	58.45	39.95	22.71	9.04
360.0	143.39	124.89	107.23	88.94	69.80	51.30	32.59	15.98	4.00
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.21	0.42	0.00	0.00	0.00	0.42	0.21	0.42	0.21
45.0	0.21	0.42	0.21	0.63	0.21	0.63	0.63	1.05	1.05
67.5	0.63	0.63	0.42	0.63	0.42	0.84	0.84	0.63	0.84
90.0	0.84	0.42	0.42	0.84	0.84	0.84	0.84	0.84	1.05
112.5	0.63	0.84	0.63	0.84	0.84	0.84	0.84	0.84	1.26
135.0	0.63	0.63	0.84	0.63	1.05	0.84	0.84	1.05	1.05
157.5	0.84	0.84	1.26	0.84	0.84	1.05	0.84	1.05	1.05
180.0	1.05	0.21	0.42	0.21	0.42	0.42	0.42	0.42	0.42
202.5	0.84	0.63	0.84	0.84	0.84	0.84	0.63	0.84	1.26
225.0	1.47	1.05	1.05	0.84	0.84	0.84	1.05	1.05	1.05
247.5	1.68	1.05	0.84	0.84	1.05	1.05	1.26	1.05	1.26
270.0	1.47	1.05	1.26	1.05	1.05	1.47	1.26	1.05	1.26
292.5	1.47	1.05	1.05	1.26	1.05	1.05	1.05	1.26	1.26
315.0	1.68	1.26	1.47	1.05	1.26	1.26	1.26	1.26	1.26
337.5	1.68	1.05	1.05	1.26	1.26	1.26	1.26	1.47	1.47
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

LL4RBX-30K

Intensity data(cd)

Page: 8 Total:8

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	0.00	0.00	0.00	0.00
22.5	0.42	0.63	0.63	0.63	0.84	1.05	0.84	0.63	0.84
45.0	0.84	0.84	0.84	0.84	1.26	1.05	0.84	1.05	0.63
67.5	0.84	0.84	1.05	1.26	0.84	1.05	0.84	1.05	1.05
90.0	1.05	1.05	1.05	1.05	0.84	1.05	1.05	1.05	1.26
112.5	1.05	0.84	1.05	1.05	1.05	1.05	1.05	1.05	1.26
135.0	1.05	0.84	1.05	1.05	1.05	1.05	1.05	1.05	1.26
157.5	1.05	1.05	1.26	1.26	1.05	1.26	1.26	1.26	1.26
180.0	0.42	0.63	0.42	0.63	0.42	0.63	0.63	0.63	0.63
202.5	1.26	0.84	0.84	0.84	0.63	1.05	0.84	1.05	0.84
225.0	1.05	1.05	1.05	1.05	1.26	1.05	1.05	1.05	1.05
247.5	0.84	1.26	1.05	1.05	1.05	1.05	1.05	1.05	1.05
270.0	1.26	1.26	1.26	1.05	1.05	1.26	1.05	1.05	1.26
292.5	1.05	1.26	1.26	1.47	1.26	1.26	1.26	1.05	1.26
315.0	1.26	1.05	1.26	1.26	1.26	1.47	1.26	1.26	1.05
337.5	1.26	1.26	1.26	1.26	1.26	1.47	1.26	1.05	1.05
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	180.0
0.0	0.00
22.5	1.05
45.0	1.05
67.5	1.05
90.0	1.05
112.5	1.05
135.0	1.26
157.5	1.26
180.0	0.00
202.5	1.05
225.0	1.05
247.5	1.05
270.0	1.05
292.5	1.05
315.0	1.26
337.5	1.26
360.0	0.00