



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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Address:Rm. 108, No.1 Building, Meibaohe industrial park, No.14 Shilongzi Road, Dalang street, Longhua district, Shenzhen, China

Client:

LumCAT: LL4G-32K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.01

LampCAT:

Current(A): 0.0930

Lamp flux(lm): -1.0

Power (W): 11.00

Number of Lamps: 1

PF: 0.9871

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 816.57, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 74.21

Central intensity(cd): 1258.932, Maximum intensity(cd): 1258.932

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=42.1

[C90/270]Total=41.8

Field angle(10%Imax): [C0/180]Total=75.4

[C90/270]Total=75.5

IES Classification : TypeI

Longitudinal Classification : VeryShort

Cut Off Classification : FullCutoff

Max Cd(At 90°Vert) : 1.352

Max Cd(80 to 90°Vert) : 10.045

Street Side UpWard Lumens: - -of Lamp 0.03%of Luminaire

Street Side DownWard Lumens: - -of lamp 50.27%of Luminaire

House Side UpWard Lumens: - -of lamp 0.05%of Luminaire

House Side DownWard Lumens: - -of lamp 49.65%of Luminaire

SLI: --- (C Flash Area: 0.000)

Throw: 93.7 (long), Spread: 7.8 (narrow), Control: --- (limited)

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

Date:
Humidity(%): 58%

Operator: Jarvis

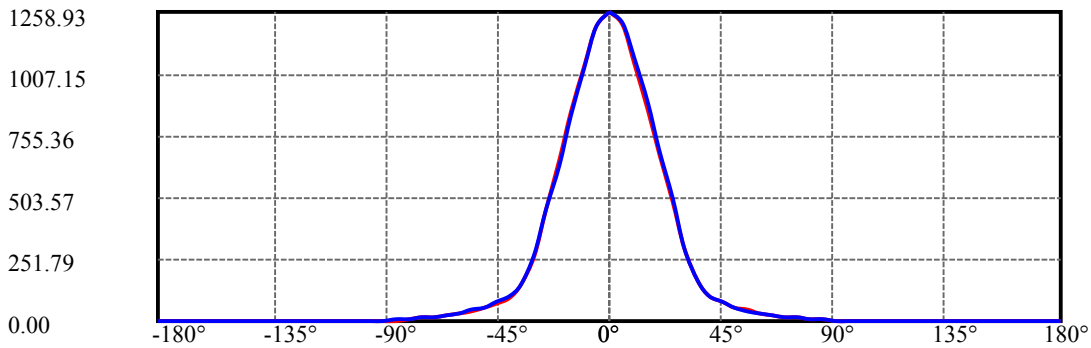
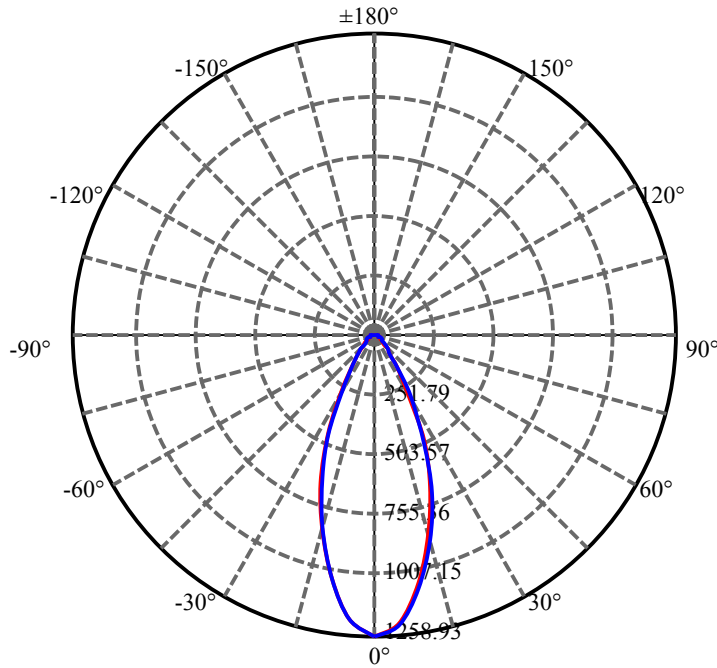
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1258.932	0.000	0	0.00%	0.00%
5.0	1199.474	29.390	29.39	0.00%	3.60%
10.0	1046.529	80.347	109.736	0.00%	13.44%
15.0	856.268	112.873	222.609	0.00%	27.26%
20.0	664.344	125.320	347.929	0.00%	42.61%
25.0	471.804	119.161	467.09	0.00%	57.20%
30.0	287.023	96.030	563.12	0.00%	68.96%
35.0	159.680	65.780	628.9	0.00%	77.02%
40.0	101.014	43.495	672.395	0.00%	82.34%
45.0	74.930	32.578	704.972	0.00%	86.33%
50.0	56.700	26.598	731.57	0.00%	89.59%
55.0	42.787	21.632	753.202	0.00%	92.24%
60.0	32.339	17.365	770.567	0.00%	94.37%
65.0	25.092	13.962	784.529	0.00%	96.08%
70.0	19.291	11.238	795.767	0.00%	97.45%
75.0	14.267	8.772	804.538	0.00%	98.53%
80.0	9.208	6.281	810.82	0.00%	99.30%
85.0	4.586	3.748	814.568	0.00%	99.75%
90.0	0.351	1.352	815.92	0.00%	99.92%
95.0	0.012	0.099	816.019	0.00%	99.93%
100.0	0.012	0.007	816.026	0.00%	99.93%
105.0	0.000	0.003	816.029	0.00%	99.93%
110.0	0.024	0.006	816.035	0.00%	99.93%
115.0	0.000	0.006	816.042	0.00%	99.93%
120.0	0.025	0.006	816.048	0.00%	99.94%
125.0	0.012	0.008	816.056	0.00%	99.94%
130.0	0.012	0.005	816.061	0.00%	99.94%
135.0	0.049	0.012	816.074	0.00%	99.94%
140.0	0.037	0.016	816.089	0.00%	99.94%
145.0	0.195	0.039	816.128	0.00%	99.95%
150.0	0.292	0.072	816.2	0.00%	99.95%
155.0	0.365	0.083	816.283	0.00%	99.96%
160.0	0.462	0.087	816.37	0.00%	99.97%
165.0	0.523	0.081	816.451	0.00%	99.98%
170.0	0.584	0.066	816.516	0.00%	99.99%
175.0	0.633	0.044	816.56	0.00%	100.00%
180.0	0.595	0.015	816.575	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	563.12	N.A.	68.96%
0-40	672.39	N.A.	82.34%
0-60	770.57	N.A.	94.37%
0-90	815.92	N.A.	99.92%
0-120	816.05	N.A.	99.94%
0-180	816.57	N.A.	100.00%
60-90	45.35	N.A.	5.55%
90-120	0.13	N.A.	0.02%
90-130	0.14	N.A.	0.02%
90-150	0.28	N.A.	0.03%
90-180	0.64	N.A.	0.08%
0-37.80	653.26	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	109.74
10-20	238.19
20-30	215.19
30-40	109.28
40-50	59.18
50-60	39.00
60-70	25.20
70-80	15.05
80-90	5.10
90-100	0.11
100-110	0.01
110-120	0.01
120-130	0.01
130-140	0.03
140-150	0.11
150-160	0.17
160-170	0.15
170-180	0.04

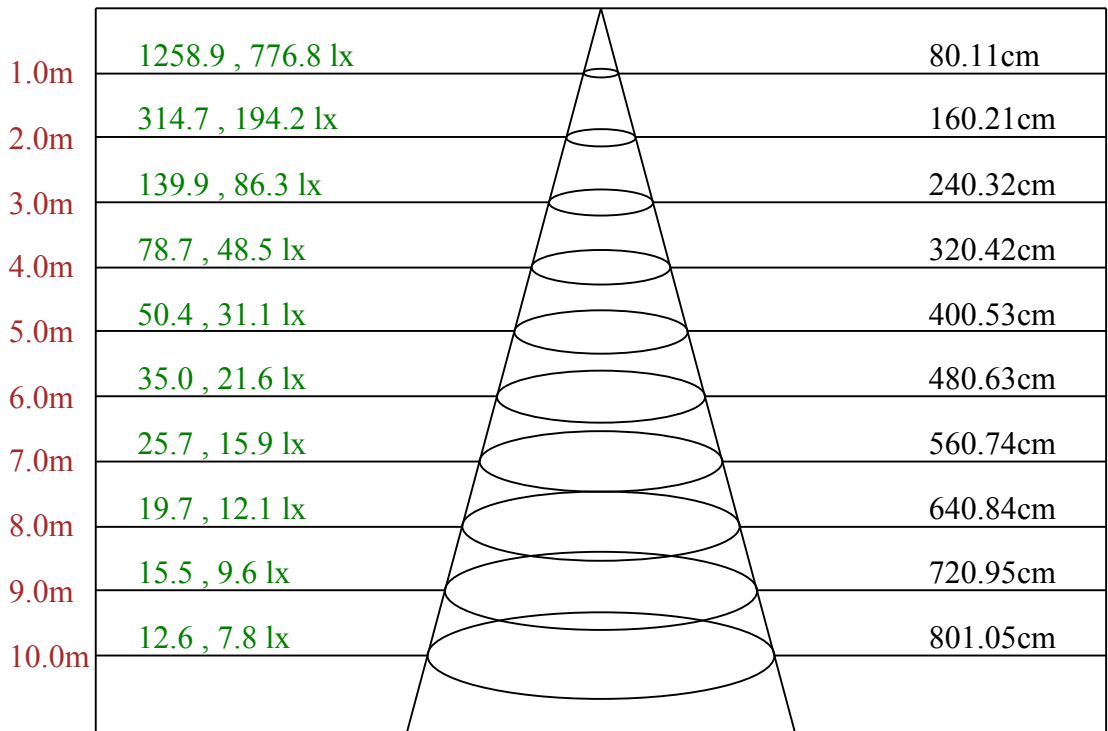


C0/C180: —

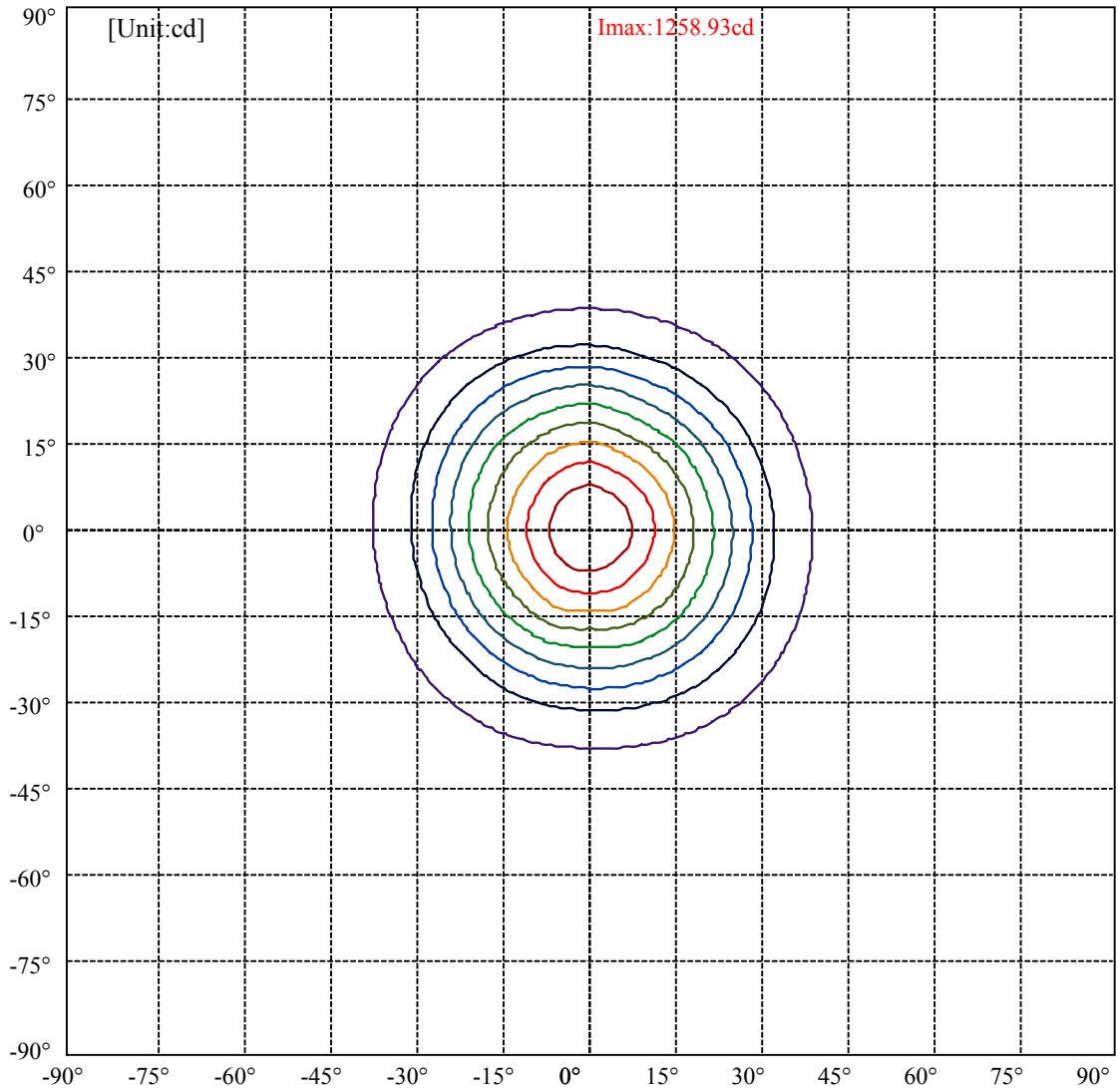
C90/C270: —

Field angle(10%Imax):C0/180Left:37.2 Right:38.2
:C90/270Left:37.4 Right:38.1

Beam Angle(50%Imax):C0/180Left:20.8 Right:21.3
:C90/270Left:20.0 Right:21.8



Max , Ave Beam angle of C0 plane 43.65



(10%Imax) 125.893	—
(20%Imax) 251.786	—
(30%Imax) 377.68	—
(40%Imax) 503.573	—
(50%Imax) 629.466	—
(60%Imax) 755.359	—
(70%Imax) 881.252	—
(80%Imax) 1007.15	—
(90%Imax) 1133.04	—

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	1258.93	1205.51	1048.72	863.29	677.47	485.84	296.15	165.88	104.33
22.5	1258.93	1203.62	1052.10	859.09	667.06	473.27	285.71	159.70	100.30
45.0	1258.93	1205.45	1050.52	849.97	655.32	459.49	277.82	156.51	100.67
67.5	1258.93	1207.88	1049.14	852.47	653.41	461.89	278.73	157.74	99.53
90.0	1258.93	1213.09	1071.10	888.29	699.69	500.44	299.45	164.04	102.53
112.5	1258.93	1205.07	1063.45	877.26	690.11	501.98	315.41	166.42	101.52
135.0	1258.93	1197.70	1049.72	862.15	682.49	497.04	314.69	168.64	101.23
157.5	1258.93	1193.51	1038.14	849.39	673.18	483.46	290.46	157.87	99.20
180.0	1258.93	1193.51	1036.92	848.77	660.24	455.26	267.31	149.62	96.39
202.5	1258.93	1195.64	1037.49	840.78	646.80	441.52	256.31	142.37	96.60
225.0	1258.93	1199.55	1041.48	837.19	635.07	440.81	255.40	148.45	97.52
247.5	1258.93	1196.95	1047.16	858.82	649.63	446.60	270.58	152.77	101.32
270.0	1258.93	1193.16	1035.51	834.13	629.66	455.75	274.30	150.50	98.85
292.5	1258.93	1190.93	1042.33	858.66	662.21	472.73	293.33	163.52	103.46
315.0	1258.93	1189.97	1037.17	860.22	669.55	481.59	308.70	176.56	106.63
337.5	1258.93	1200.07	1043.55	859.81	677.62	491.18	308.03	174.28	106.15
360.0	1258.93	1205.51	1048.72	863.29	677.47	485.84	296.15	165.88	104.33
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	77.23	57.30	43.36	32.33	24.97	18.97	14.52	9.68	5.03
22.5	75.96	56.68	42.07	31.55	24.35	19.09	14.02	9.35	5.06
45.0	73.93	54.86	41.49	31.26	24.38	18.88	14.16	9.24	4.72
67.5	72.31	54.63	41.32	30.99	24.24	18.67	13.91	8.94	4.57
90.0	74.67	55.91	42.56	32.69	25.15	19.54	14.12	8.90	4.26
112.5	73.23	55.99	42.24	32.36	24.99	19.18	13.95	8.72	4.07
135.0	73.02	55.83	42.11	32.07	24.92	19.12	13.52	8.50	3.67
157.5	73.34	55.58	42.27	31.85	24.51	18.91	13.70	8.30	3.47
180.0	73.17	55.36	41.81	31.55	24.78	18.78	13.74	8.52	3.68
202.5	72.84	55.90	42.26	31.94	25.12	19.28	14.02	8.76	4.09
225.0	74.52	56.63	43.26	32.84	25.56	19.66	14.55	9.44	4.52
247.5	76.49	58.80	44.30	33.57	26.62	20.46	14.90	9.93	4.97
270.0	75.25	57.26	43.53	32.50	25.54	19.54	14.51	9.29	4.84
292.5	76.92	57.93	43.59	33.13	25.38	19.57	15.11	9.88	5.62
315.0	78.62	59.11	44.43	33.42	25.50	19.51	14.88	10.05	5.41
337.5	77.39	59.44	44.00	33.39	25.48	19.49	14.67	9.84	5.40
360.0	77.23	57.30	43.36	32.33	24.97	18.97	14.52	9.68	5.03
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
22.5	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.20	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
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.20	0.00	0.00	0.00	0.20	0.00	0.00
270.0	0.97	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
292.5	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19

LL4G-32K

Intensity data(cd)

Appendix Page: 8 Total:8

C/ γ ($^{\circ}$)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.19	0.19	0.39	0.39	0.39	0.58	0.77
22.5	0.00	0.00	0.20	0.20	0.20	0.39	0.58	0.58	0.58
45.0	0.00	0.20	0.20	0.20	0.20	0.59	0.59	0.59	0.59
67.5	0.00	0.00	0.20	0.40	0.40	0.40	0.40	0.60	0.80
90.0	0.00	0.00	0.39	0.19	0.39	0.58	0.39	0.39	0.58
112.5	0.19	0.00	0.00	0.39	0.39	0.39	0.39	0.58	0.58
135.0	0.00	0.00	0.19	0.39	0.39	0.39	0.39	0.58	0.77
157.5	0.00	0.00	0.19	0.39	0.39	0.58	0.58	0.58	0.58
180.0	0.19	0.19	0.19	0.19	0.39	0.39	0.58	0.58	0.58
202.5	0.00	0.00	0.20	0.39	0.39	0.58	0.58	0.78	0.58
225.0	0.20	0.20	0.20	0.39	0.39	0.59	0.59	0.59	0.79
247.5	0.00	0.00	0.20	0.20	0.60	0.60	0.60	0.60	0.60
270.0	0.19	0.00	0.19	0.19	0.39	0.39	0.58	0.58	0.39
292.5	0.00	0.00	0.19	0.19	0.39	0.39	0.58	0.58	0.58
315.0	0.00	0.00	0.19	0.39	0.39	0.39	0.58	0.58	0.77
337.5	0.00	0.00	0.19	0.39	0.19	0.39	0.58	0.58	0.58
360.0	0.00	0.00	0.19	0.19	0.39	0.39	0.39	0.58	0.77
C/ γ ($^{\circ}$)	180.0								
0.0	0.60								
22.5	0.60								
45.0	0.60								
67.5	0.60								
90.0	0.60								
112.5	0.60								
135.0	0.60								
157.5	0.60								
180.0	0.60								
202.5	0.60								
225.0	0.60								
247.5	0.60								
270.0	0.60								
292.5	0.60								
315.0	0.60								
337.5	0.60								
360.0	0.60								