



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

Tel:0755-21038430

Address:Rm. 108, No.1 Building, Meibaohe industrial park, No.14 Shilongzi Road, Dalang street, Longhua district, Shenzhen, China

Client:

LumCAT: LL8R-50K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.06

LampCAT:

Current(A): 0.3470

Lamp flux(lm): -1.0

Power (W): 40.95

Number of Lamps: 1

PF: 0.9823

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 4938.83, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 120.61

Central intensity(cd): 6741.666, Maximum intensity(cd): 6902.560

Angle of maximum intensity: C=90.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=50.4

[C90/270]Total=50.6

Field angle(10%Imax): [C0/180]Total=74.0

[C90/270]Total=73.7

Maximum s/h(1/2): C0_180=0.91 C90_270=0.96

Maximum s/h(1/4): C0_180=0.82 C90_270=0.86

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.25%

Down flux rate of LUM(%): 99.75%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.159%

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

Date:
Humidity(%): 58%

Operator: Tester

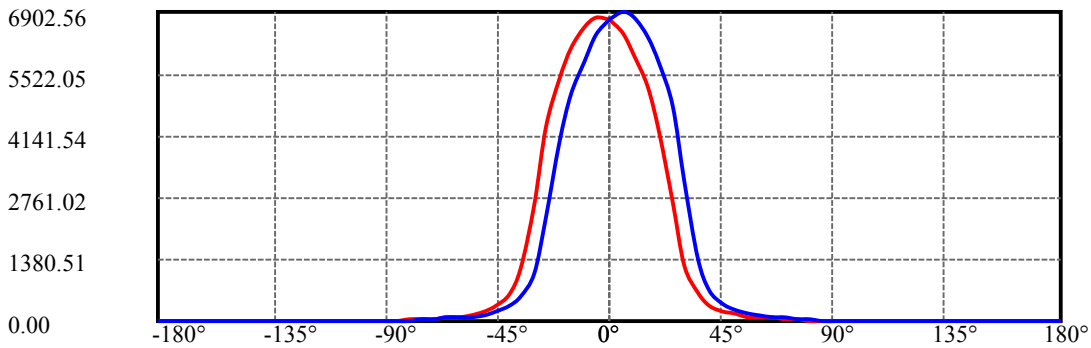
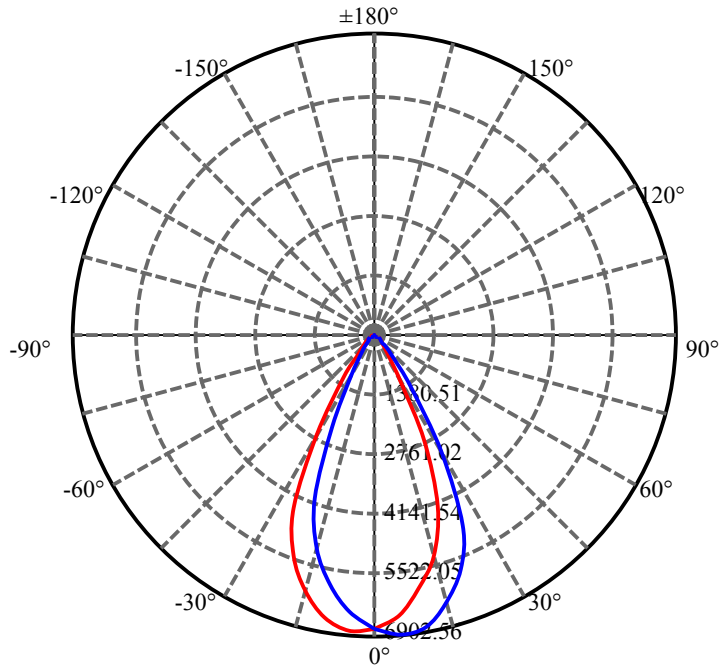
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6741.666	0.000	0	0.00%	0.00%
5.0	6606.706	159.576	159.576	0.00%	3.23%
10.0	6240.196	459.574	619.15	0.00%	12.54%
15.0	5669.658	706.484	1325.635	0.00%	26.84%
20.0	4841.689	866.283	2191.917	0.00%	44.38%
25.0	3524.132	877.420	3069.337	0.00%	62.15%
30.0	1978.942	696.419	3765.756	0.00%	76.25%
35.0	943.664	430.374	4196.13	0.00%	84.96%
40.0	490.594	239.295	4435.425	0.00%	89.81%
45.0	295.696	145.588	4581.013	0.00%	92.76%
50.0	189.553	98.052	4679.065	0.00%	94.74%
55.0	127.286	68.891	4747.956	0.00%	96.14%
60.0	91.376	50.543	4798.499	0.00%	97.16%
65.0	71.185	39.519	4838.018	0.00%	97.96%
70.0	56.207	32.256	4870.274	0.00%	98.61%
75.0	40.620	25.309	4895.584	0.00%	99.12%
80.0	24.531	17.433	4913.016	0.00%	99.48%
85.0	11.114	9.686	4922.702	0.00%	99.67%
90.0	2.329	3.681	4926.383	0.00%	99.75%
95.0	0.688	0.826	4927.209	0.00%	99.76%
100.0	0.768	0.395	4927.604	0.00%	99.77%
105.0	0.715	0.397	4928.001	0.00%	99.78%
110.0	0.847	0.408	4928.409	0.00%	99.79%
115.0	0.847	0.429	4928.838	0.00%	99.80%
120.0	0.979	0.444	4929.282	0.00%	99.81%
125.0	1.138	0.489	4929.771	0.00%	99.82%
130.0	1.456	0.564	4930.335	0.00%	99.83%
135.0	1.905	0.679	4931.014	0.00%	99.84%
140.0	2.540	0.823	4931.838	0.00%	99.86%
145.0	3.229	0.962	4932.8	0.00%	99.88%
150.0	4.314	1.111	4933.911	0.00%	99.90%
155.0	5.187	1.202	4935.113	0.00%	99.92%
160.0	5.954	1.168	4936.281	0.00%	99.95%
165.0	6.510	1.027	4937.309	0.00%	99.97%
170.0	7.118	0.808	4938.117	0.00%	99.99%
175.0	7.621	0.527	4938.644	0.00%	100.00%
180.0	7.857	0.185	4938.829	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3765.76	N.A.	76.25%
0-40	4435.43	N.A.	89.81%
0-60	4798.50	N.A.	97.16%
0-90	4926.38	N.A.	99.75%
0-120	4929.28	N.A.	99.81%
0-180	4938.83	N.A.	100.00%
60-90	127.88	N.A.	2.59%
90-120	2.90	N.A.	0.06%
90-130	3.95	N.A.	0.08%
90-150	7.53	N.A.	0.15%
90-180	12.26	N.A.	0.25%
0-32.15	3951.06	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	619.15
10-20	1572.77
20-30	1573.84
30-40	669.67
40-50	243.64
50-60	119.43
60-70	71.78
70-80	42.74
80-90	13.37
90-100	1.22
100-110	0.80
110-120	0.87
120-130	1.05
130-140	1.50
140-150	2.07
150-160	2.37
160-170	1.84
170-180	0.53

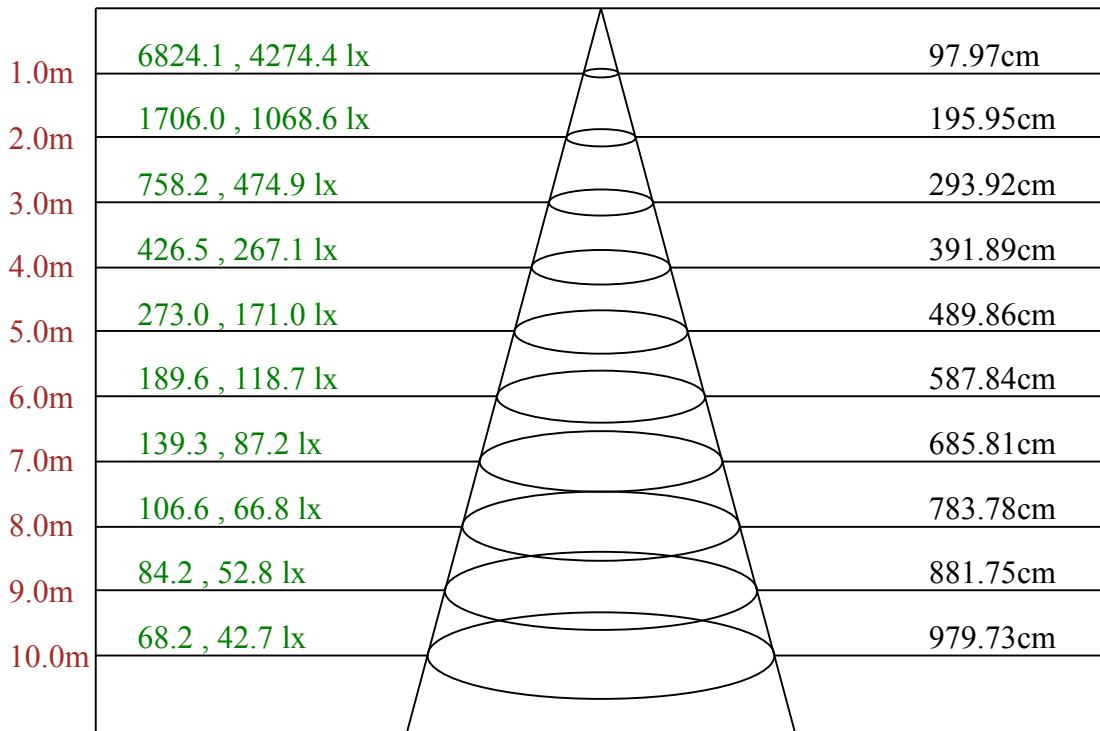


C0/C180: —

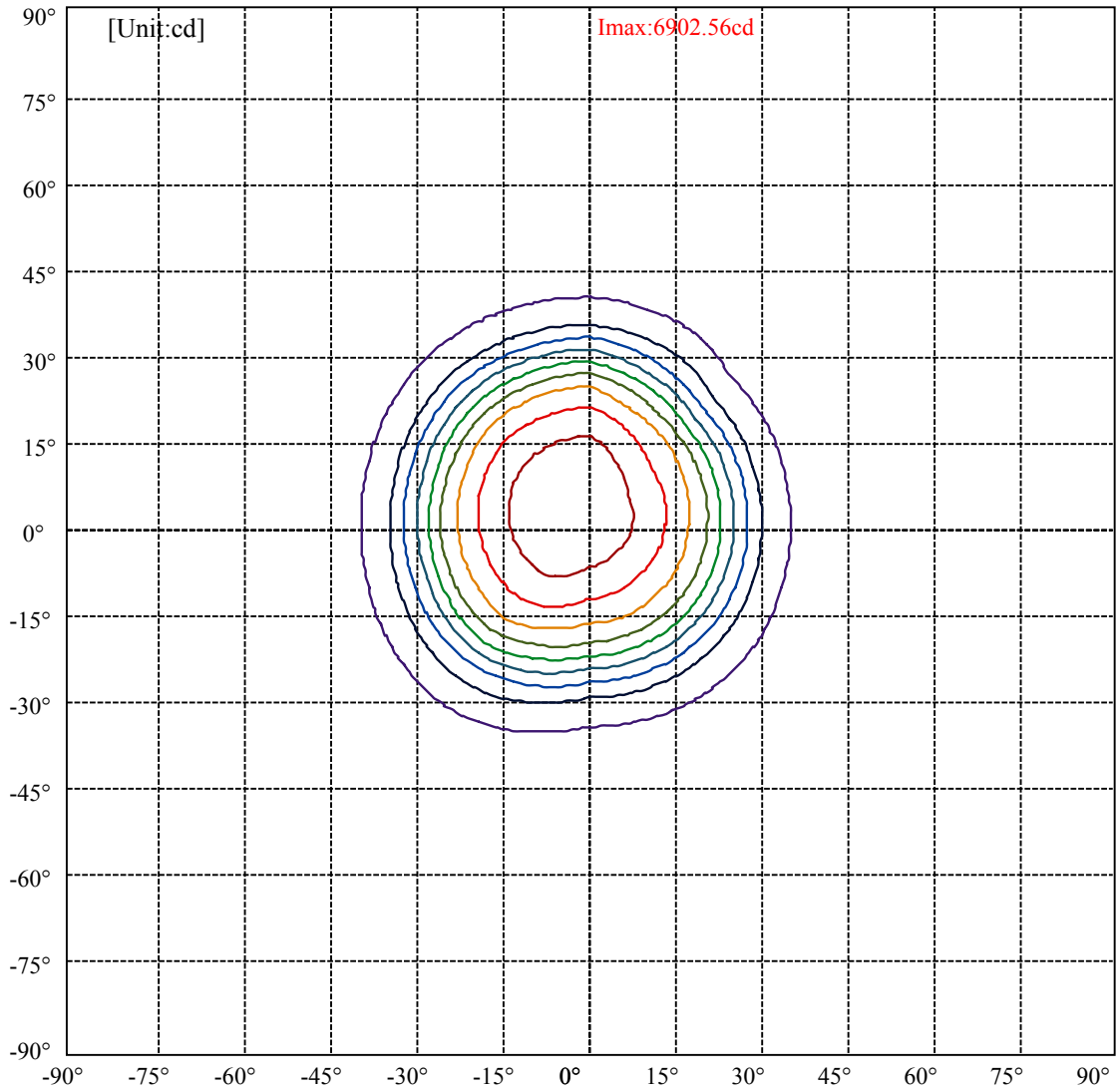
C90/C270: —

Field angle(10%Imax):C0/180Left:39.4 Right:34.6
:C90/270Left:33.7 Right:40.0

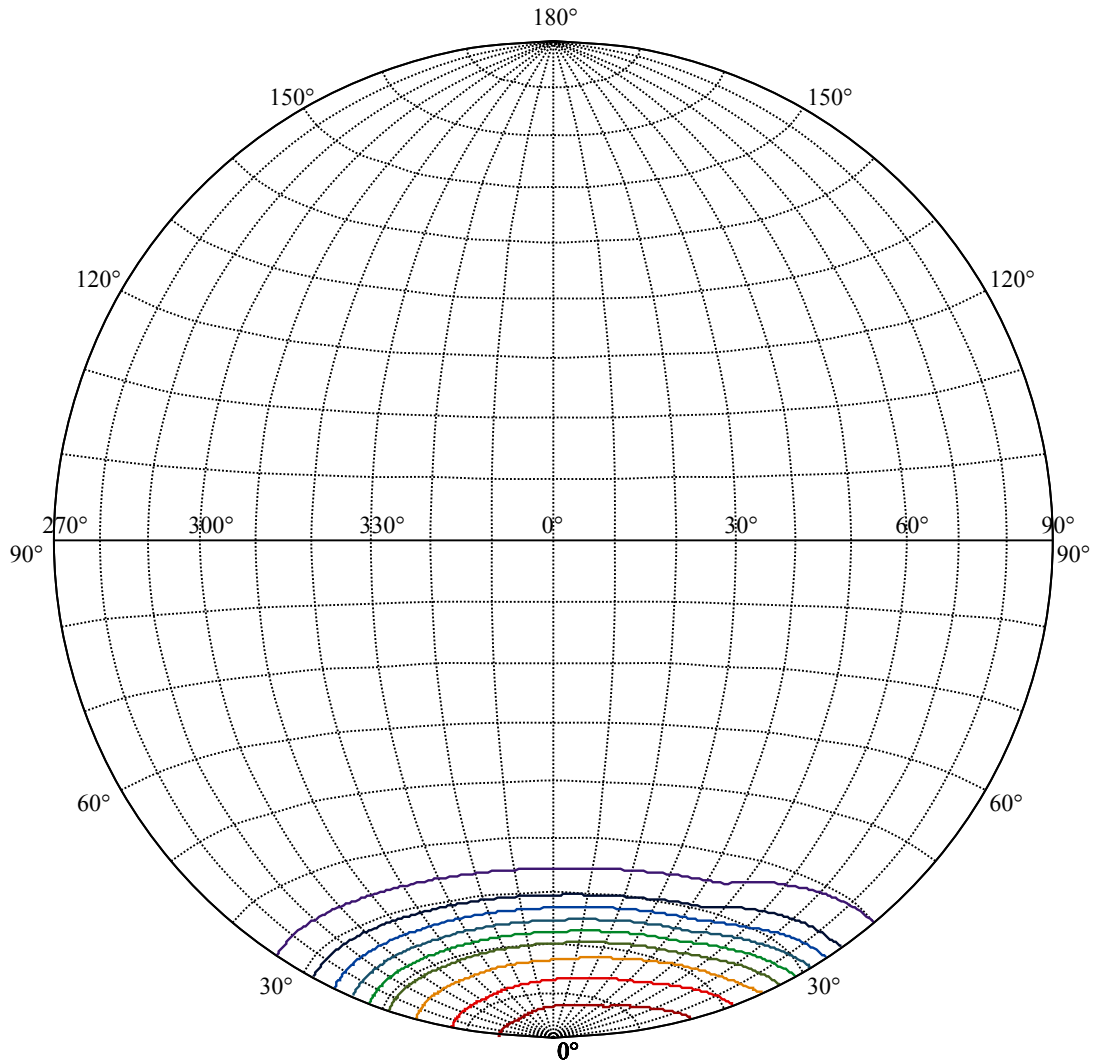
Beam Angle(50%Imax):C0/180Left:27.8 Right:22.6
:C90/270Left:21.6 Right:29.0



Max , Ave Beam angle of C90 plane 52.20



(10%Imax) 690.256	—
(20%Imax) 1380.51	—
(30%Imax) 2070.77	—
(40%Imax) 2761.02	—
(50%Imax) 3451.28	—
(60%Imax) 4141.54	—
(70%Imax) 4831.79	—
(80%Imax) 5522.05	—
(90%Imax) 6212.3	—



House

[Unit:cd]

Road

Imax:6902.56

(10%Imax)	690.256	—
(20%Imax)	1380.51	—
(30%Imax)	2070.77	—
(40%Imax)	2761.02	—
(50%Imax)	3451.28	—
(60%Imax)	4141.54	—
(70%Imax)	4831.79	—
(80%Imax)	5522.05	—
(90%Imax)	6212.3	—

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	6741.67	6447.40	5913.91	5221.64	4185.99	2669.36	1246.93	627.49	362.65
45.0	6741.67	6549.02	6144.67	5537.08	4770.72	3108.43	1483.61	696.50	392.71
90.0	6741.67	6902.56	6777.66	6362.72	5725.49	4785.54	3108.85	1434.28	690.57
135.0	6741.67	6849.63	6722.61	6330.96	5706.44	4713.56	3049.57	1406.76	667.50
180.0	6741.67	6788.24	6551.13	6070.57	5382.54	4349.43	2617.70	1190.83	606.95
225.0	6741.67	6652.75	6303.44	5769.95	5035.34	3858.28	2162.54	1061.69	530.95
270.0	6741.67	6366.95	5782.65	5043.81	3982.97	2330.85	1075.87	561.01	335.76
315.0	6741.67	6297.09	5725.49	5020.53	3944.02	2377.63	1086.46	570.75	337.67
360.0	6741.67	6447.40	5913.91	5221.64	4185.99	2669.36	1246.93	627.49	362.65
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	227.79	150.94	106.06	80.45	65.20	51.44	35.35	19.05	6.35
45.0	247.90	159.41	109.66	81.08	64.99	50.81	34.93	18.84	6.35
90.0	396.10	247.69	160.47	109.24	81.51	65.20	50.60	34.51	19.69
135.0	382.97	242.40	157.08	106.28	78.54	62.24	46.79	30.49	16.51
180.0	355.03	223.56	146.29	102.46	77.27	61.61	46.36	29.43	15.24
225.0	320.52	204.29	136.55	95.05	73.67	59.70	44.46	28.58	13.97
270.0	217.21	143.75	101.41	79.18	65.20	49.96	33.24	17.15	4.66
315.0	218.05	144.38	100.77	77.27	63.09	48.69	33.24	18.21	6.14
360.0	227.79	150.94	106.06	80.45	65.20	51.44	35.35	19.05	6.35
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.85	0.64	0.64	0.85	0.85	0.85	1.06	1.06	1.69
45.0	0.85	0.64	0.85	0.85	1.06	0.85	0.85	1.27	1.48
90.0	5.29	0.64	0.85	0.64	0.85	0.85	0.85	1.06	1.06
135.0	4.02	0.64	0.64	0.64	0.42	0.42	0.85	0.85	1.06
180.0	2.96	0.64	0.42	0.64	0.64	0.64	0.85	0.85	1.27
225.0	2.75	0.64	0.64	0.42	0.85	0.64	0.85	0.85	1.27
270.0	1.06	0.85	1.06	0.85	1.06	1.48	1.48	1.91	1.91
315.0	0.85	0.85	1.06	0.85	1.06	1.06	1.06	1.27	1.91
360.0	0.85	0.64	0.64	0.85	0.85	0.85	1.06	1.06	1.69
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	2.12	2.96	3.81	4.87	5.72	6.35	6.99	7.20	7.83
45.0	1.91	2.54	3.18	4.23	5.50	5.93	6.35	7.20	7.62
90.0	1.48	1.91	2.75	3.60	4.66	5.29	6.14	6.77	7.41
135.0	1.48	2.12	2.33	3.39	4.23	5.29	5.93	6.77	7.20
180.0	1.27	2.12	2.75	3.60	4.23	5.50	6.14	6.56	7.20
225.0	1.69	2.12	2.96	3.81	4.87	5.50	6.14	6.77	6.99
270.0	2.75	3.39	4.02	5.72	6.35	6.99	7.20	8.05	8.68
315.0	2.54	3.18	4.02	5.29	5.93	6.77	7.20	7.62	8.05
360.0	2.12	2.96	3.81	4.87	5.72	6.35	6.99	7.20	7.83
C/ γ (°)	180.0								
0.0	7.86								
45.0	7.86								
90.0	7.86								
135.0	7.86								
180.0	7.86								
225.0	7.86								
270.0	7.86								
315.0	7.86								
360.0	7.86								