



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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Client:

LumCAT: LRG2-HO-3018K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.01

LampCAT:

Current(A): 0.0490

Lamp flux(lm): -1.0

Power (W): 5.45

Number of Lamps: 0

PF: 0.9344

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 420.99, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 77.20

Central intensity(cd): 930.221, Maximum intensity(cd): 988.862

Angle of maximum intensity: C=45.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=32.0

[C90/270]Total=30.7

Field angle(10%Imax): [C0/180]Total=67.0

[C90/270]Total=65.2

Maximum s/h(1/2): C0_180=0.42 C90_270=0.60

Maximum s/h(1/4): C0_180=0.48 C90_270=0.62

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.07%

Down flux rate of LUM(%): 99.93%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.533%

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

Date:
Humidity(%): 59%

Operator: Tester

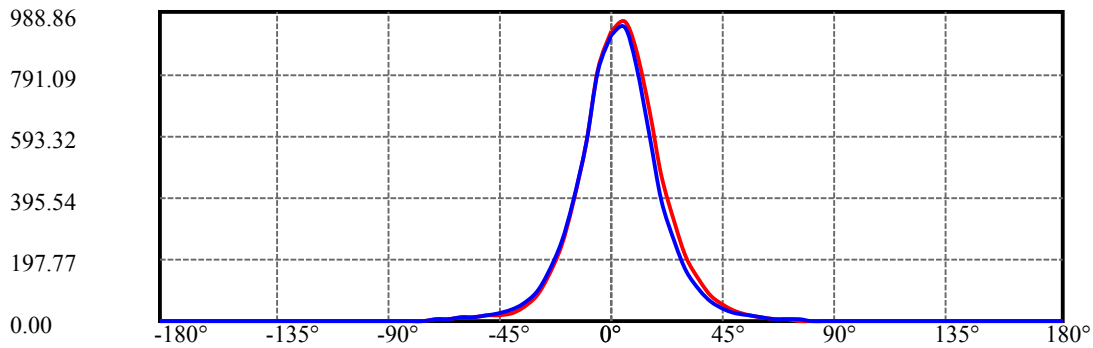
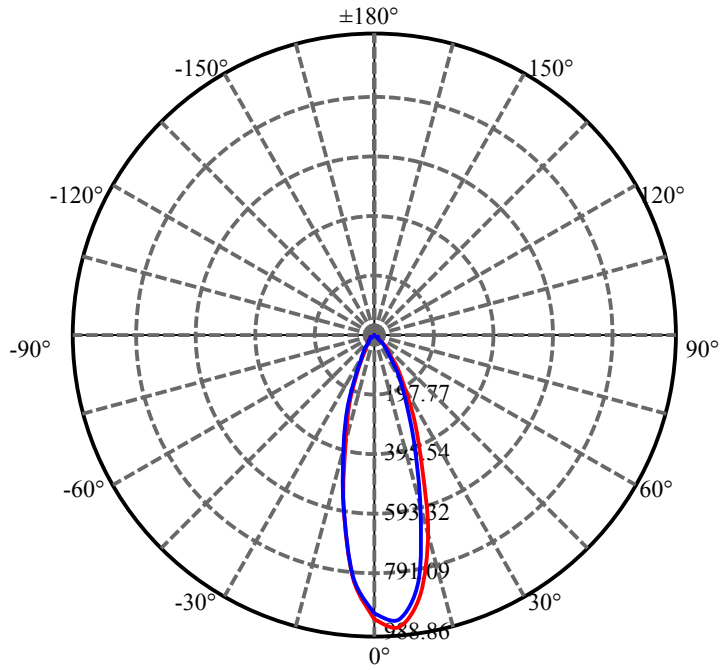
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	932.020	0.000	0	0.00%	0.00%
5.0	883.249	21.701	21.701	0.00%	5.15%
10.0	707.933	56.922	78.623	0.00%	18.68%
15.0	500.385	71.677	150.299	0.00%	35.70%
20.0	335.072	68.853	219.153	0.00%	52.06%
25.0	212.126	57.391	276.544	0.00%	65.69%
30.0	129.350	43.214	319.758	0.00%	75.95%
35.0	77.642	30.481	350.239	0.00%	83.19%
40.0	48.136	20.985	371.224	0.00%	88.18%
45.0	31.305	14.709	385.933	0.00%	91.67%
50.0	21.356	10.641	396.574	0.00%	94.20%
55.0	15.428	7.998	404.572	0.00%	96.10%
60.0	10.665	6.031	410.603	0.00%	97.53%
65.0	6.801	4.246	414.849	0.00%	98.54%
70.0	4.155	2.774	417.623	0.00%	99.20%
75.0	2.329	1.695	419.318	0.00%	99.60%
80.0	1.112	0.921	420.238	0.00%	99.82%
85.0	0.291	0.381	420.619	0.00%	99.91%
90.0	0.027	0.087	420.706	0.00%	99.93%
95.0	0.000	0.007	420.713	0.00%	99.93%
100.0	0.000	0.000	420.713	0.00%	99.93%
105.0	0.027	0.007	420.721	0.00%	99.94%
110.0	0.027	0.014	420.734	0.00%	99.94%
115.0	0.027	0.013	420.748	0.00%	99.94%
120.0	0.027	0.013	420.761	0.00%	99.95%
125.0	0.027	0.012	420.773	0.00%	99.95%
130.0	0.027	0.012	420.784	0.00%	99.95%
135.0	0.027	0.011	420.795	0.00%	99.95%
140.0	0.053	0.015	420.81	0.00%	99.96%
145.0	0.027	0.013	420.823	0.00%	99.96%
150.0	0.079	0.016	420.839	0.00%	99.96%
155.0	0.053	0.017	420.855	0.00%	99.97%
160.0	0.185	0.025	420.88	0.00%	99.97%
165.0	0.291	0.039	420.92	0.00%	99.98%
170.0	0.318	0.036	420.956	0.00%	99.99%
175.0	0.318	0.023	420.979	0.00%	100.00%
180.0	0.423	0.009	420.987	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	319.76	N.A.	75.95%
0-40	371.22	N.A.	88.18%
0-60	410.60	N.A.	97.53%
0-90	420.71	N.A.	99.93%
0-120	420.76	N.A.	99.95%
0-180	420.99	N.A.	100.00%
60-90	10.10	N.A.	2.40%
90-120	0.05	N.A.	0.01%
90-130	0.08	N.A.	0.02%
90-150	0.13	N.A.	0.03%
90-180	0.27	N.A.	0.06%
0-32.79	336.79	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	78.62
10-20	140.53
20-30	100.61
30-40	51.47
40-50	25.35
50-60	14.03
60-70	7.02
70-80	2.62
80-90	0.47
90-100	0.01
100-110	0.02
110-120	0.03
120-130	0.02
130-140	0.03
140-150	0.03
150-160	0.04
160-170	0.08
170-180	0.02

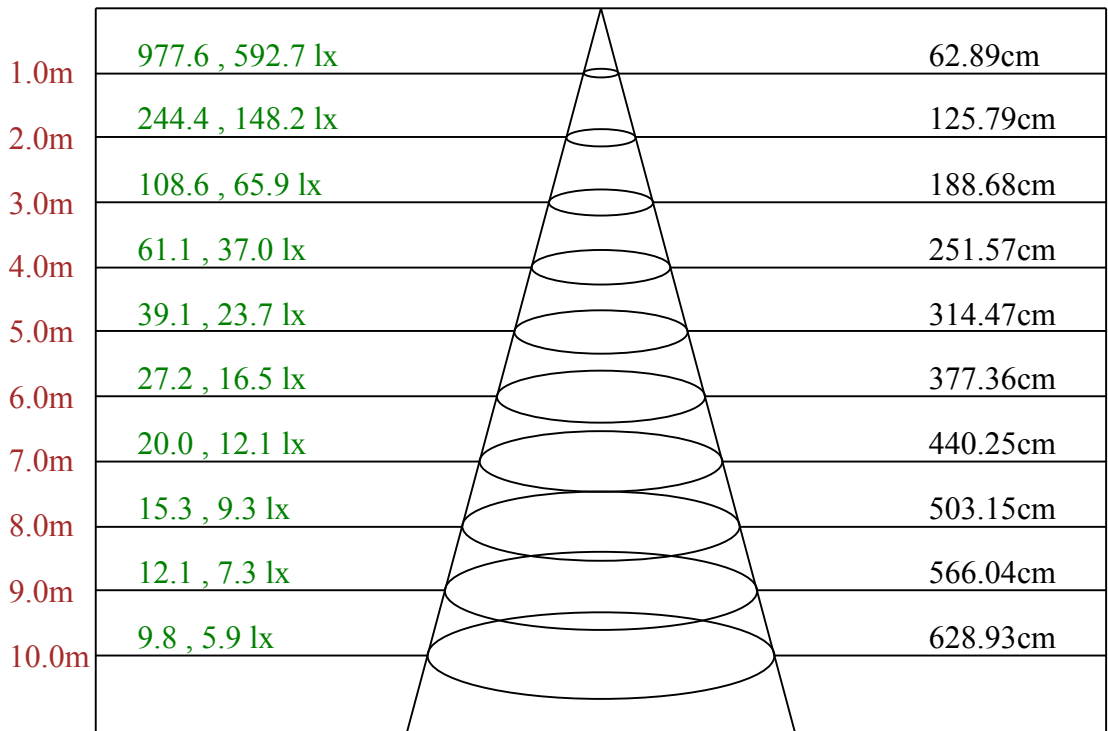


C0/C180: —

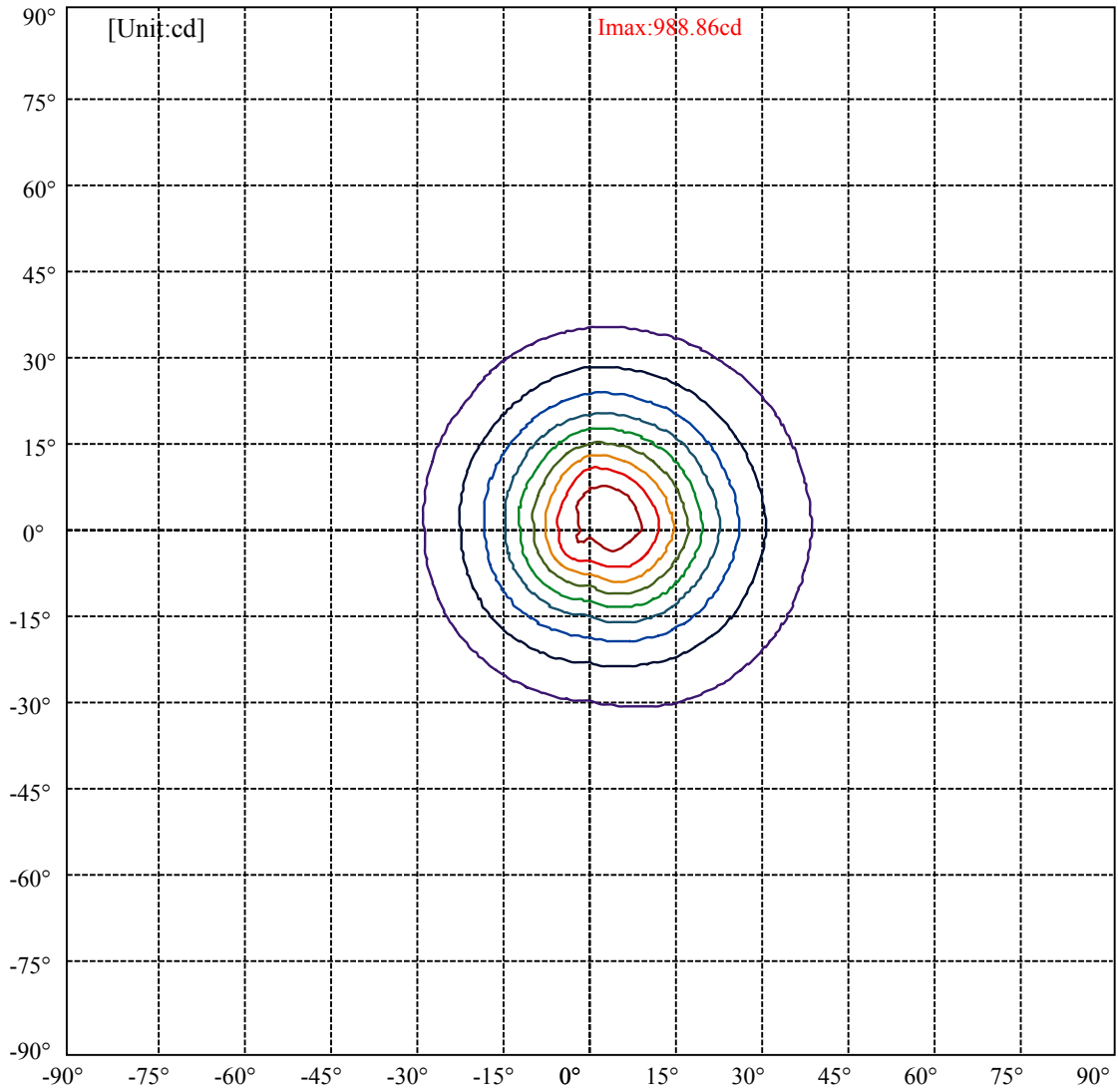
C90/C270: —

Field angle(10%Imax):C0/180Left:28.6 Right:38.4
:C90/270Left:29.8 Right:35.4

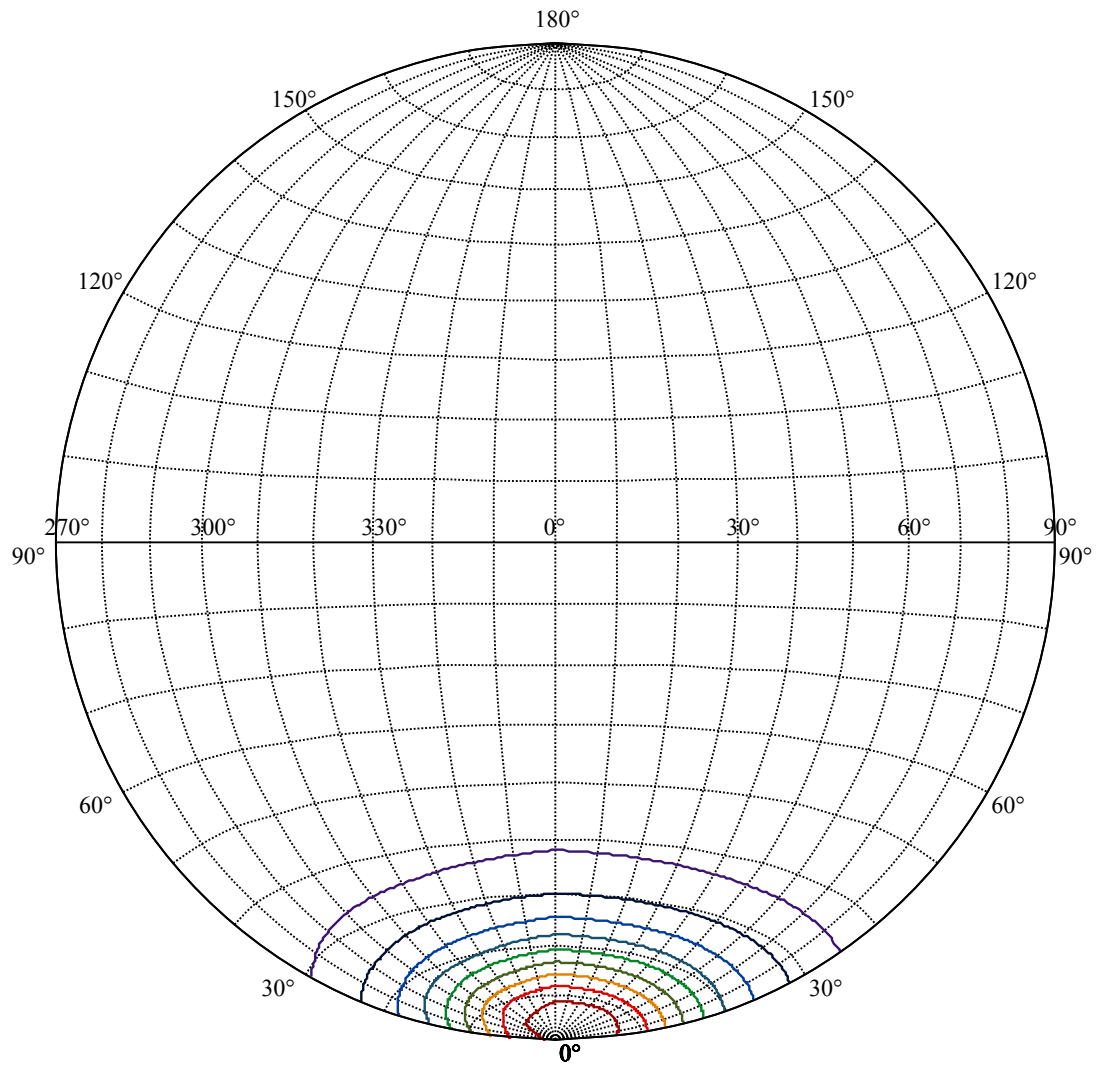
Beam Angle(50%Imax):C0/180Left:12.3 Right:19.7
:C90/270Left:12.7 Right:18.0



Max , Ave Beam angle of C45 plane 34.91



(10%Imax) 98.5016	—
(20%Imax) 197.003	—
(30%Imax) 295.505	—
(40%Imax) 394.006	—
(50%Imax) 492.508	—
(60%Imax) 591.009	—
(70%Imax) 689.511	—
(80%Imax) 788.013	—
(90%Imax) 886.514	—



House

[Unit:cd]

Road

- I_{max}:988.86
- (10%I_{max}) 98.8862
- (20%I_{max}) 197.772
- (30%I_{max}) 296.659
- (40%I_{max}) 395.545
- (50%I_{max}) 494.431
- (60%I_{max}) 593.317
- (70%I_{max}) 692.203
- (80%I_{max}) 791.09
- (90%I_{max}) 889.976

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	930.22	960.49	864.17	670.67	467.86	313.53	201.54	129.14	81.08
45.0	963.67	988.86	853.80	634.26	439.07	289.19	179.31	109.24	69.02
90.0	914.98	937.42	818.23	587.26	389.32	254.89	159.41	96.54	59.28
135.0	919.21	854.22	644.85	435.68	288.97	173.60	100.98	56.10	33.24
180.0	930.22	805.32	569.06	372.39	242.40	139.09	79.39	42.34	26.25
225.0	963.67	829.87	580.70	378.95	244.52	142.26	77.70	42.13	26.46
270.0	914.98	799.60	570.96	381.28	252.35	155.18	91.46	53.56	33.87
315.0	919.21	890.21	761.71	542.59	356.08	229.27	145.02	92.09	55.89
360.0	930.22	960.49	864.17	670.67	467.86	313.53	201.54	129.14	81.08

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	49.75	28.58	19.05	11.01	5.93	3.60	1.48	0.64	0.21
45.0	42.13	25.83	17.15	11.22	6.35	3.81	1.69	1.27	0.42
90.0	37.68	25.62	18.63	13.55	8.68	5.29	3.39	1.48	0.21
135.0	23.29	18.42	13.97	10.80	7.41	4.87	2.96	1.69	0.42
180.0	20.32	16.72	13.13	9.74	6.56	3.60	1.91	0.64	0.00
225.0	20.32	16.30	12.49	9.32	6.35	3.60	2.33	1.06	0.00
270.0	23.71	17.78	13.55	9.74	6.77	4.66	2.54	0.85	0.42
315.0	33.24	21.59	15.45	9.95	6.35	3.81	2.33	1.27	0.64
360.0	49.75	28.58	19.05	11.01	5.93	3.60	1.48	0.64	0.21

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
45.0	0.21	0.00	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
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	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
270.0	0.00	0.00	0.00	0.21	0.21	0.21	0.21	0.21	0.21
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.21
45.0	0.00	0.00	0.00	0.21	0.00	0.21	0.42	0.21	0.21
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.21
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.42
180.0	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.21
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.42
270.0	0.21	0.42	0.21	0.42	0.21	0.64	0.64	0.64	0.64
315.0	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.42	0.21
360.0	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.21

C/γ(°)	180.0
0.0	0.21
45.0	0.42
90.0	0.64
135.0	0.42
180.0	0.21
225.0	0.42
270.0	0.64
315.0	0.42
360.0	0.21