



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

LumCAT: LL4SR-5CCT-2700K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.13

LampCAT:

Current(A): 0.1180

Lamp flux(lm): -1.0

Power (W): 13.91

Number of Lamps: 1

PF: 0.9856

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 797.16, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 57.30

Central intensity(cd): 314.402, Maximum intensity(cd): 316.919

Angle of maximum intensity: C=90.0  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=104.8

[C90/270]Total=104.9

Field angle(10%Imax): [C0/180]Total=148.5

[C90/270]Total=149.3

Maximum s/h(1/2): C0\_180=1.24 C90\_270=1.26

Maximum s/h(1/4): C0\_180=1.35 C90\_270=1.36

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.63%

Down flux rate of LUM(%): 99.37%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 84.230%

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

Date:  
Humidity(%): 58%

Operator: Sam

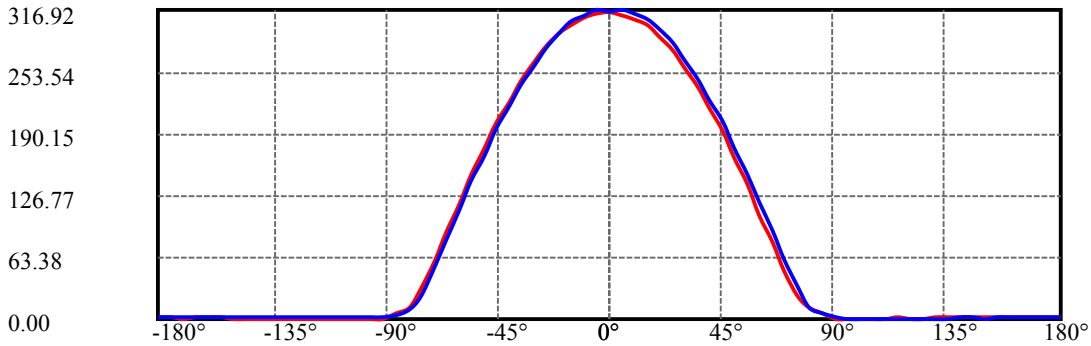
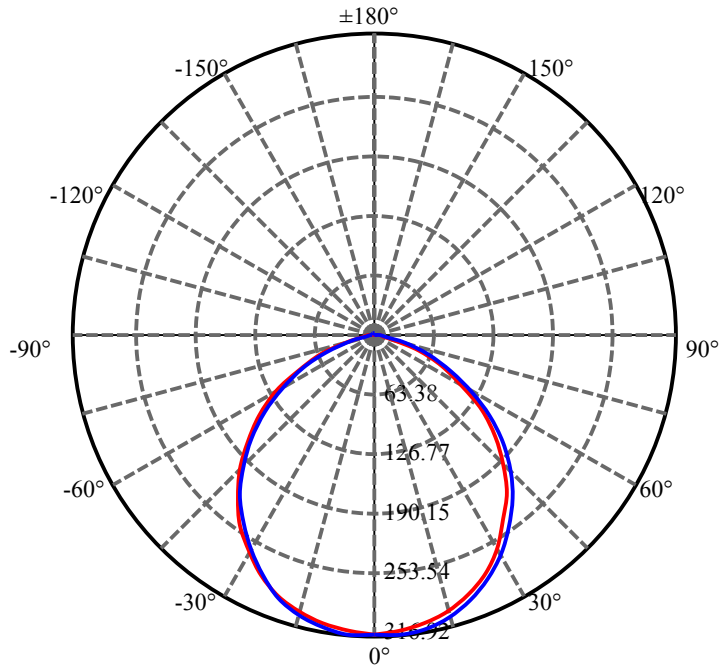
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	314.402	0.000	0	0.00%	0.00%
5.0	313.161	7.502	7.502	0.00%	0.94%
10.0	309.191	22.264	29.766	0.00%	3.73%
15.0	302.258	36.271	66.037	0.00%	8.28%
20.0	292.361	49.005	115.042	0.00%	14.43%
25.0	278.812	59.906	174.947	0.00%	21.95%
30.0	262.008	68.441	243.388	0.00%	30.53%
35.0	242.003	74.219	317.608	0.00%	39.84%
40.0	219.906	77.066	394.673	0.00%	49.51%
45.0	195.772	76.966	471.64	0.00%	59.17%
50.0	169.203	73.749	545.388	0.00%	68.42%
55.0	141.285	67.510	612.899	0.00%	76.89%
60.0	112.017	58.550	671.449	0.00%	84.23%
65.0	82.511	47.290	718.739	0.00%	90.16%
70.0	54.222	34.622	753.36	0.00%	94.51%
75.0	28.659	21.664	775.024	0.00%	97.22%
80.0	11.908	10.855	785.879	0.00%	98.58%
85.0	5.187	4.645	790.524	0.00%	99.17%
90.0	0.715	1.616	792.14	0.00%	99.37%
95.0	0.450	0.319	792.459	0.00%	99.41%
100.0	0.529	0.266	792.725	0.00%	99.44%
105.0	0.529	0.283	793.008	0.00%	99.48%
110.0	0.556	0.284	793.291	0.00%	99.51%
115.0	0.794	0.342	793.633	0.00%	99.56%
120.0	0.741	0.373	794.006	0.00%	99.60%
125.0	0.767	0.349	794.355	0.00%	99.65%
130.0	1.032	0.391	794.746	0.00%	99.70%
135.0	0.979	0.406	795.153	0.00%	99.75%
140.0	1.006	0.368	795.52	0.00%	99.79%
145.0	1.032	0.340	795.86	0.00%	99.84%
150.0	1.059	0.308	796.168	0.00%	99.88%
155.0	1.138	0.278	796.446	0.00%	99.91%
160.0	1.244	0.250	796.696	0.00%	99.94%
165.0	1.138	0.196	796.892	0.00%	99.97%
170.0	1.297	0.144	797.037	0.00%	99.98%
175.0	1.244	0.091	797.128	0.00%	100.00%
180.0	1.364	0.031	797.159	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	243.39	N.A.	30.53%
0-40	394.67	N.A.	49.51%
0-60	671.45	N.A.	84.23%
0-90	792.14	N.A.	99.37%
0-120	794.01	N.A.	99.60%
0-180	797.16	N.A.	100.00%
60-90	120.69	N.A.	15.14%
90-120	1.87	N.A.	0.23%
90-130	2.61	N.A.	0.33%
90-150	4.03	N.A.	0.51%
90-180	4.99	N.A.	0.63%
0-57.12	637.73	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	29.77
10-20	85.28
20-30	128.35
30-40	151.29
40-50	150.71
50-60	126.06
60-70	81.91
70-80	32.52
80-90	6.26
90-100	0.58
100-110	0.57
110-120	0.71
120-130	0.74
130-140	0.77
140-150	0.65
150-160	0.53
160-170	0.34
170-180	0.09

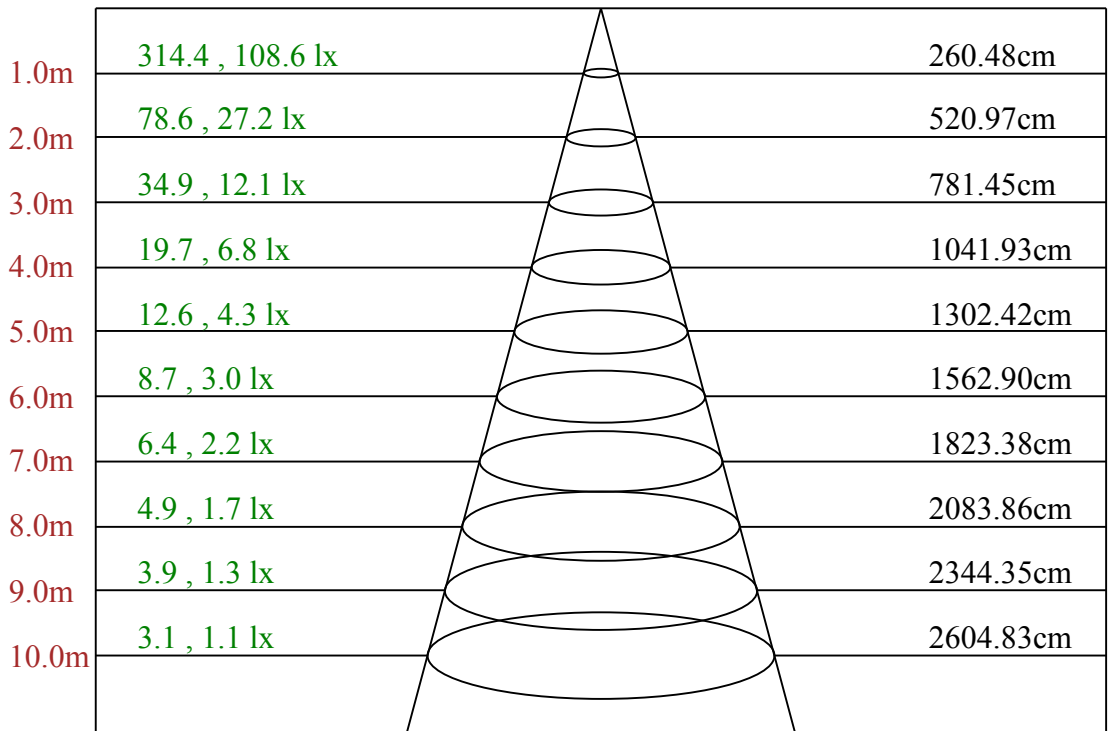


C0/C180: —

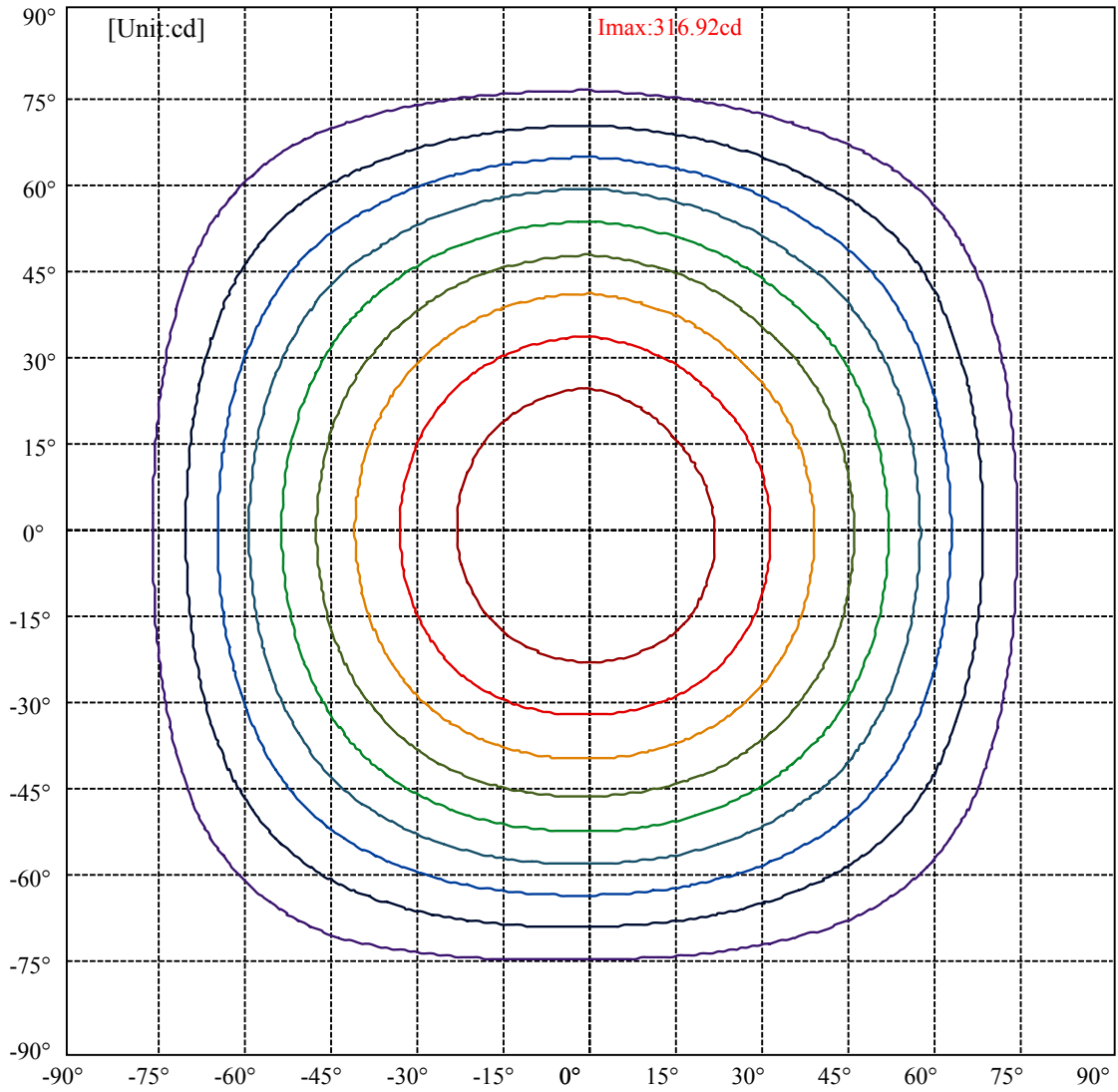
C90/C270: —

Field angle(10%Imax):C0/180Left:75.1 Right:73.4  
:C90/270Left:73.7 Right:75.6

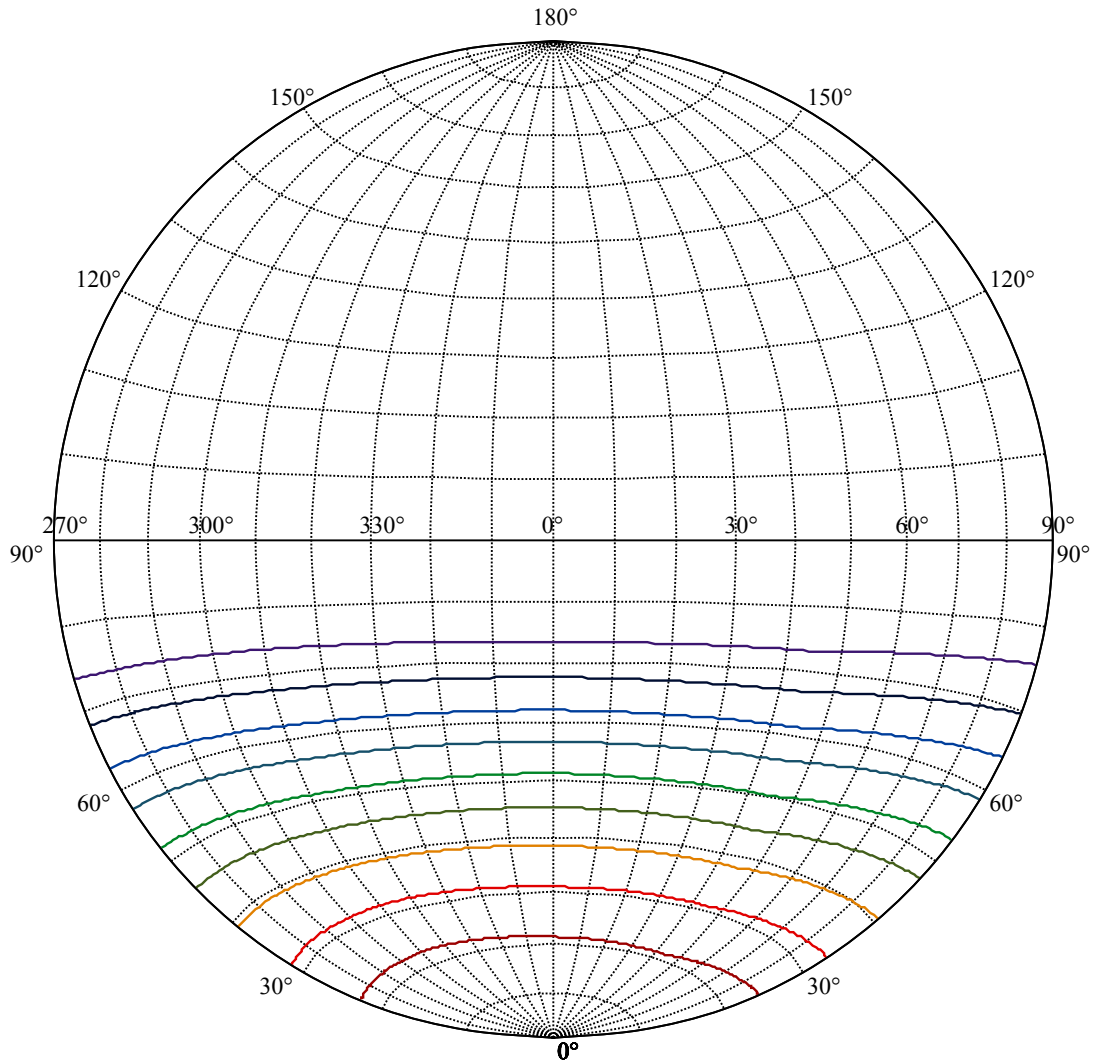
Beam Angle(50%Imax):C0/180Left:53.2 Right:51.6  
:C90/270Left:51.8 Right:53.1



Max , Ave      Beam angle of C90 plane 104.97



(10%Imax)	31.6919	—
(20%Imax)	63.3838	—
(30%Imax)	95.0757	—
(40%Imax)	126.768	—
(50%Imax)	158.46	—
(60%Imax)	190.151	—
(70%Imax)	221.843	—
(80%Imax)	253.535	—
(90%Imax)	285.227	—



House

[Unit:cd]

Road

**Imax:316.92**

(10%Imax) 31.6919	
(20%Imax) 63.3838	
(30%Imax) 95.0757	
(40%Imax) 126.768	
(50%Imax) 158.46	
(60%Imax) 190.151	
(70%Imax) 221.843	
(80%Imax) 253.535	
(90%Imax) 285.227	

LL4SR-5CCT-2700K

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	314.40	311.63	307.60	300.19	289.40	275.21	257.85	237.32	215.73
45.0	314.40	309.93	305.70	298.29	288.13	274.58	257.22	236.26	212.97
90.0	314.40	316.92	313.53	306.76	297.23	283.47	266.53	246.63	224.83
135.0	314.40	314.17	310.14	303.37	294.06	281.35	265.48	245.36	223.56
180.0	314.40	312.26	308.24	301.89	292.57	279.45	263.15	244.73	223.35
225.0	314.40	310.78	307.39	301.04	291.73	279.45	264.21	244.94	222.71
270.0	314.40	316.28	311.63	304.22	293.63	277.97	260.18	240.71	218.48
315.0	314.40	313.32	309.30	302.31	292.15	279.02	261.45	240.07	217.63
360.0	314.40	311.63	307.60	300.19	289.40	275.21	257.85	237.32	215.73

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	192.44	166.19	137.61	107.12	78.12	49.54	23.29	11.01	5.08
45.0	187.78	160.26	132.95	103.31	73.88	46.58	23.29	9.74	3.81
90.0	202.18	175.50	147.77	119.40	89.97	60.97	34.08	12.70	5.72
135.0	198.58	171.90	143.11	114.11	84.05	56.10	32.39	13.76	5.93
180.0	200.27	174.44	147.35	118.55	88.70	59.91	31.76	12.70	5.93
225.0	198.79	172.33	144.17	114.95	86.38	58.43	33.87	14.61	6.14
270.0	193.92	168.09	140.99	111.36	81.51	52.71	24.56	9.95	4.23
315.0	192.23	164.92	136.34	107.33	77.48	49.54	26.04	10.80	4.66
360.0	192.44	166.19	137.61	107.12	78.12	49.54	23.29	11.01	5.08

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.64	0.64	0.64	0.64	0.64	1.06	0.85	0.85	1.27
45.0	0.64	0.64	0.64	0.42	0.64	0.85	0.64	0.85	0.85
90.0	1.06	0.42	0.42	0.64	0.42	0.64	0.64	0.64	0.85
135.0	0.42	0.00	0.42	0.21	0.21	0.42	0.64	0.42	0.85
180.0	0.42	0.00	0.00	0.21	0.21	0.64	0.64	0.42	0.64
225.0	0.85	0.21	0.00	0.21	0.21	0.42	0.42	0.42	0.85
270.0	1.06	1.06	1.27	1.27	1.27	1.48	1.27	1.48	1.69
315.0	0.64	0.64	0.85	0.64	0.85	0.85	0.85	1.06	1.27
360.0	0.64	0.64	0.64	0.64	0.64	1.06	0.85	0.85	1.27

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.06	1.27	1.06	1.27	1.06	1.27	1.06	1.27	1.06
45.0	1.27	0.85	1.06	1.27	1.06	1.27	1.06	1.27	1.06
90.0	0.85	1.06	1.06	0.85	1.06	1.27	1.06	1.27	1.06
135.0	0.64	0.85	0.85	0.85	1.06	1.06	1.06	1.27	1.06
180.0	0.42	0.64	0.85	0.64	1.06	1.06	1.06	0.85	1.27
225.0	0.85	0.64	0.64	0.85	0.85	1.06	1.06	1.27	1.27
270.0	1.48	1.69	1.69	1.69	1.69	1.91	1.69	1.91	1.91
315.0	1.27	1.06	1.06	1.06	1.27	1.06	1.06	1.27	1.27
360.0	1.06	1.27	1.06	1.27	1.06	1.27	1.06	1.27	1.06

C/γ(°)	180.0
0.0	1.36
45.0	1.36
90.0	1.36
135.0	1.36
180.0	1.36
225.0	1.36
270.0	1.36
315.0	1.36
360.0	1.36