



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

LumCAT: LL4RR-5CCT-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.17

LampCAT:

Current(A): 0.1150

Lamp flux(lm): -1.0

Power (W): 13.66

Number of Lamps: 1

PF: 0.9851

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 991.22, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 72.56

Central intensity(cd): 382.805, Maximum intensity(cd): 382.805

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=105.7

[C90/270]Total=105.6

Field angle(10%Imax): [C0/180]Total=151.3

[C90/270]Total=151.1

Maximum s/h(1/2): C0_180=1.26 C90_270=1.25

Maximum s/h(1/4): C0_180=1.36 C90_270=1.36

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.52%

Down flux rate of LUM(%): 99.48%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 83.178%

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

Date:
Humidity(%): 58%

Operator: Sam

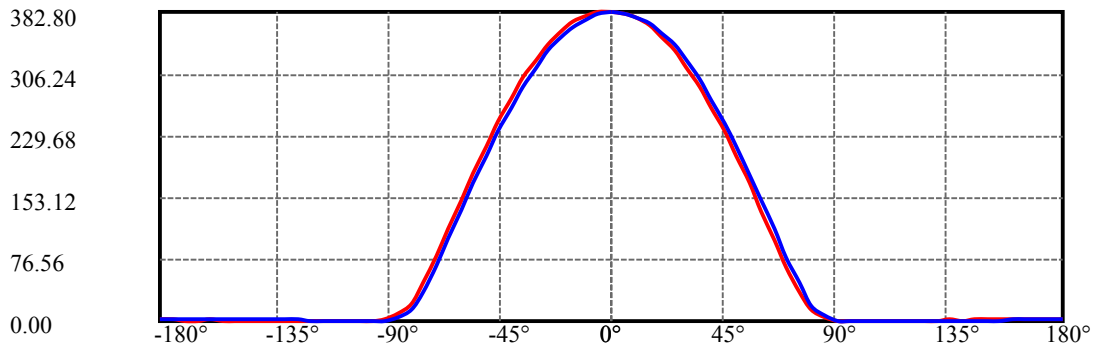
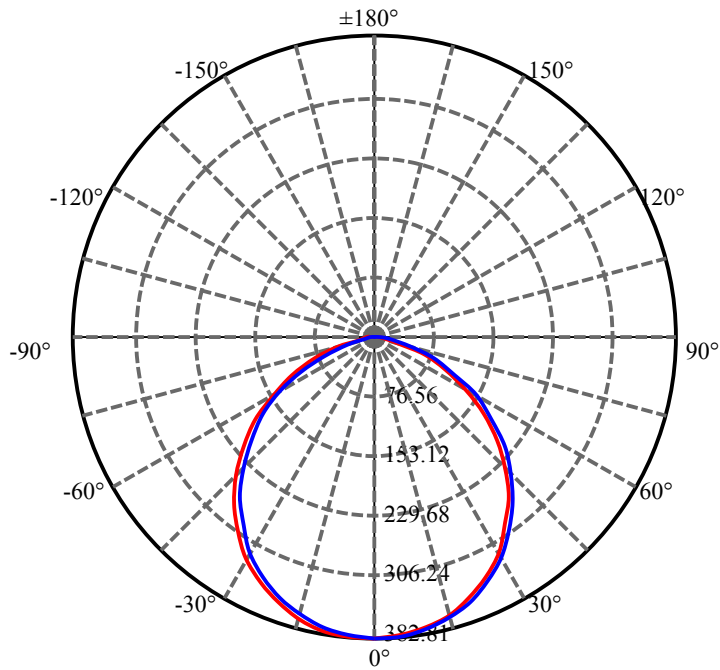
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	382.805	0.000	0	0.00%	0.00%
5.0	381.065	9.132	9.132	0.00%	0.92%
10.0	375.984	27.082	36.214	0.00%	3.65%
15.0	367.277	44.090	80.304	0.00%	8.10%
20.0	355.290	59.550	139.853	0.00%	14.11%
25.0	339.042	72.823	212.676	0.00%	21.46%
30.0	319.274	83.310	295.986	0.00%	29.86%
35.0	295.510	90.531	386.517	0.00%	38.99%
40.0	269.603	94.285	480.802	0.00%	48.51%
45.0	240.944	94.532	575.334	0.00%	58.04%
50.0	209.903	91.100	666.434	0.00%	67.23%
55.0	177.063	84.139	750.574	0.00%	75.72%
60.0	142.661	73.903	824.477	0.00%	83.18%
65.0	107.757	60.877	885.354	0.00%	89.32%
70.0	73.540	45.905	931.259	0.00%	93.95%
75.0	41.547	30.082	961.341	0.00%	96.99%
80.0	17.492	15.797	977.138	0.00%	98.58%
85.0	7.198	6.709	983.847	0.00%	99.26%
90.0	0.900	2.217	986.064	0.00%	99.48%
95.0	0.556	0.399	986.463	0.00%	99.52%
100.0	0.503	0.288	986.751	0.00%	99.55%
105.0	0.556	0.283	987.034	0.00%	99.58%
110.0	0.635	0.311	987.345	0.00%	99.61%
115.0	0.662	0.328	987.673	0.00%	99.64%
120.0	0.688	0.328	988.001	0.00%	99.67%
125.0	0.794	0.343	988.344	0.00%	99.71%
130.0	0.847	0.357	988.701	0.00%	99.75%
135.0	1.032	0.380	989.08	0.00%	99.78%
140.0	1.085	0.392	989.472	0.00%	99.82%
145.0	1.138	0.371	989.843	0.00%	99.86%
150.0	1.138	0.335	990.179	0.00%	99.89%
155.0	1.244	0.301	990.48	0.00%	99.92%
160.0	1.270	0.264	990.744	0.00%	99.95%
165.0	1.244	0.207	990.951	0.00%	99.97%
170.0	1.270	0.149	991.1	0.00%	99.99%
175.0	1.323	0.093	991.193	0.00%	100.00%
180.0	1.364	0.032	991.225	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	295.99	N.A.	29.86%
0-40	480.80	N.A.	48.51%
0-60	824.48	N.A.	83.18%
0-90	986.06	N.A.	99.48%
0-120	988.00	N.A.	99.67%
0-180	991.22	N.A.	100.00%
60-90	161.59	N.A.	16.30%
90-120	1.94	N.A.	0.20%
90-130	2.64	N.A.	0.27%
90-150	4.11	N.A.	0.42%
90-180	5.13	N.A.	0.52%
0-57.87	792.98	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	36.21
10-20	103.64
20-30	156.13
30-40	184.82
40-50	185.63
50-60	158.04
60-70	106.78
70-80	45.88
80-90	8.93
90-100	0.69
100-110	0.59
110-120	0.66
120-130	0.70
130-140	0.77
140-150	0.71
150-160	0.57
160-170	0.36
170-180	0.09

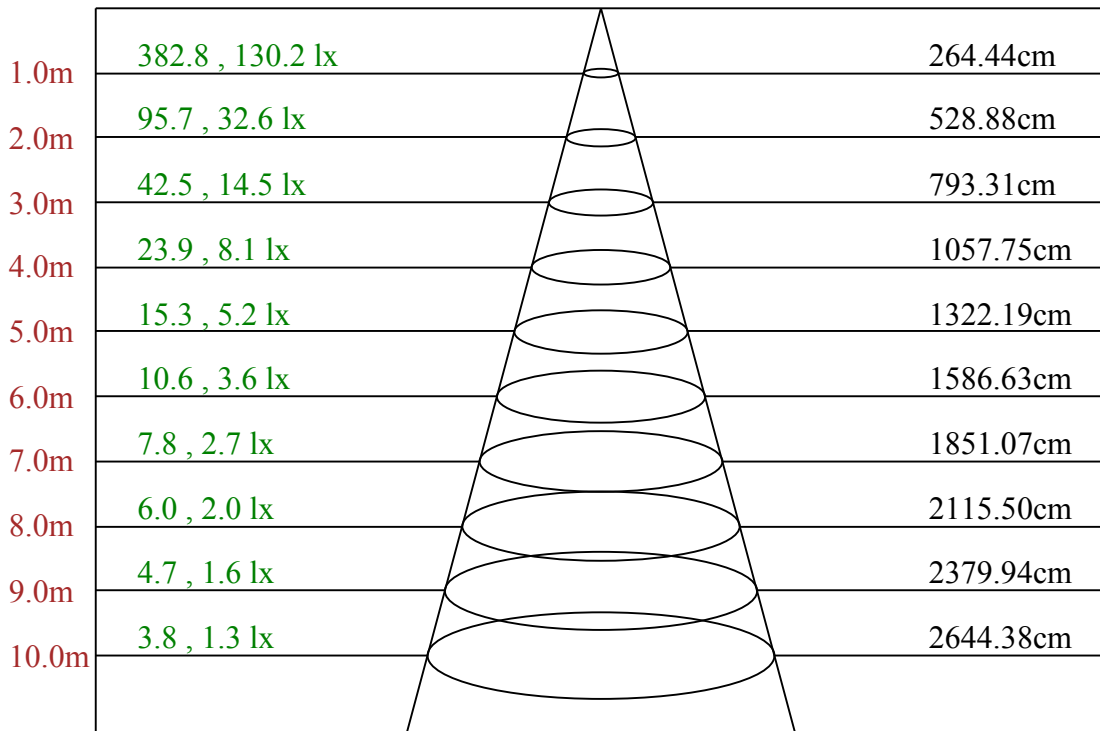


C0/C180: —

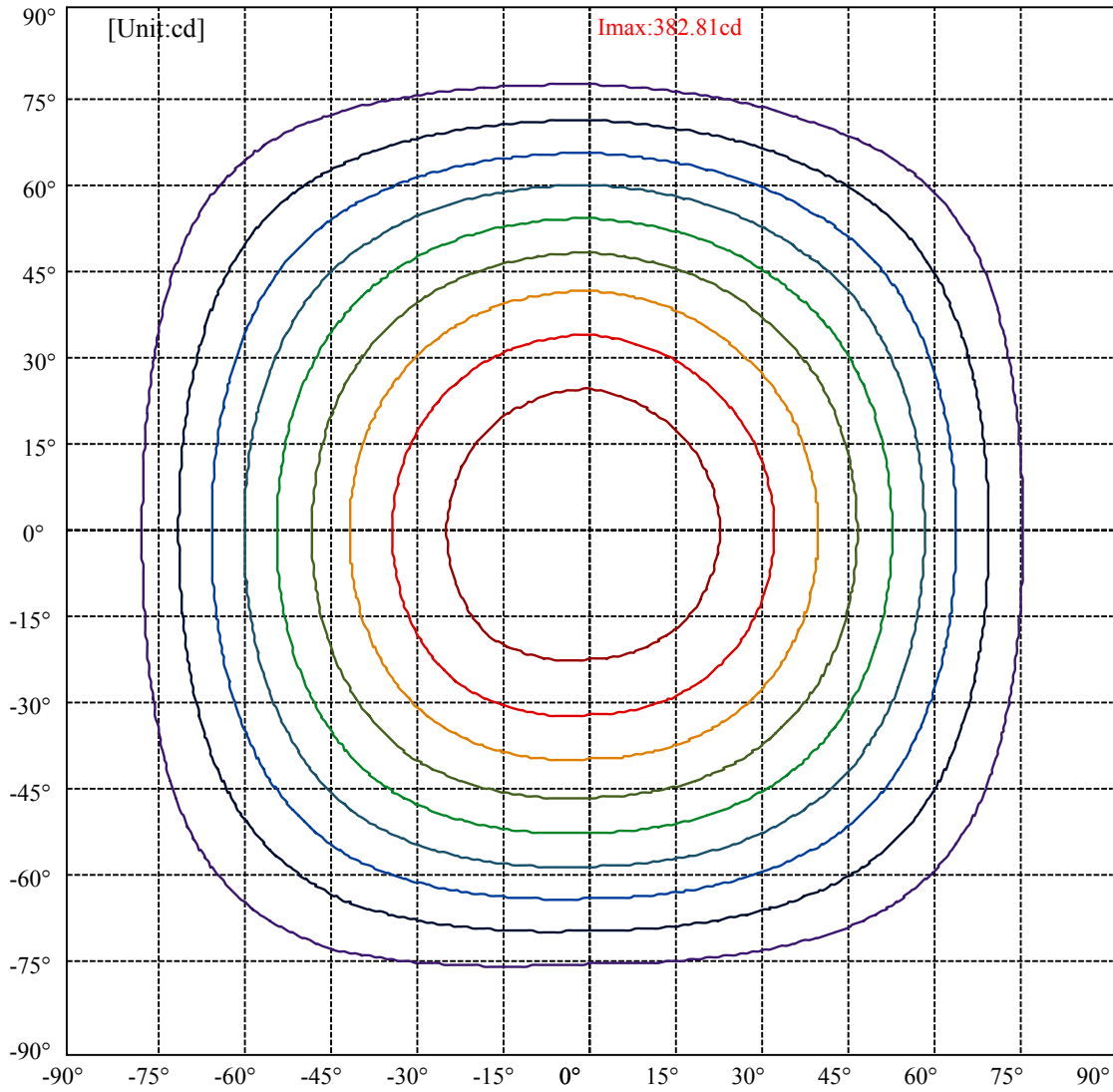
C90/C270: —










Field angle(10%Imax):C0/180Left:76.9 Right:74.4
:C90/270Left:74.5 Right:76.6

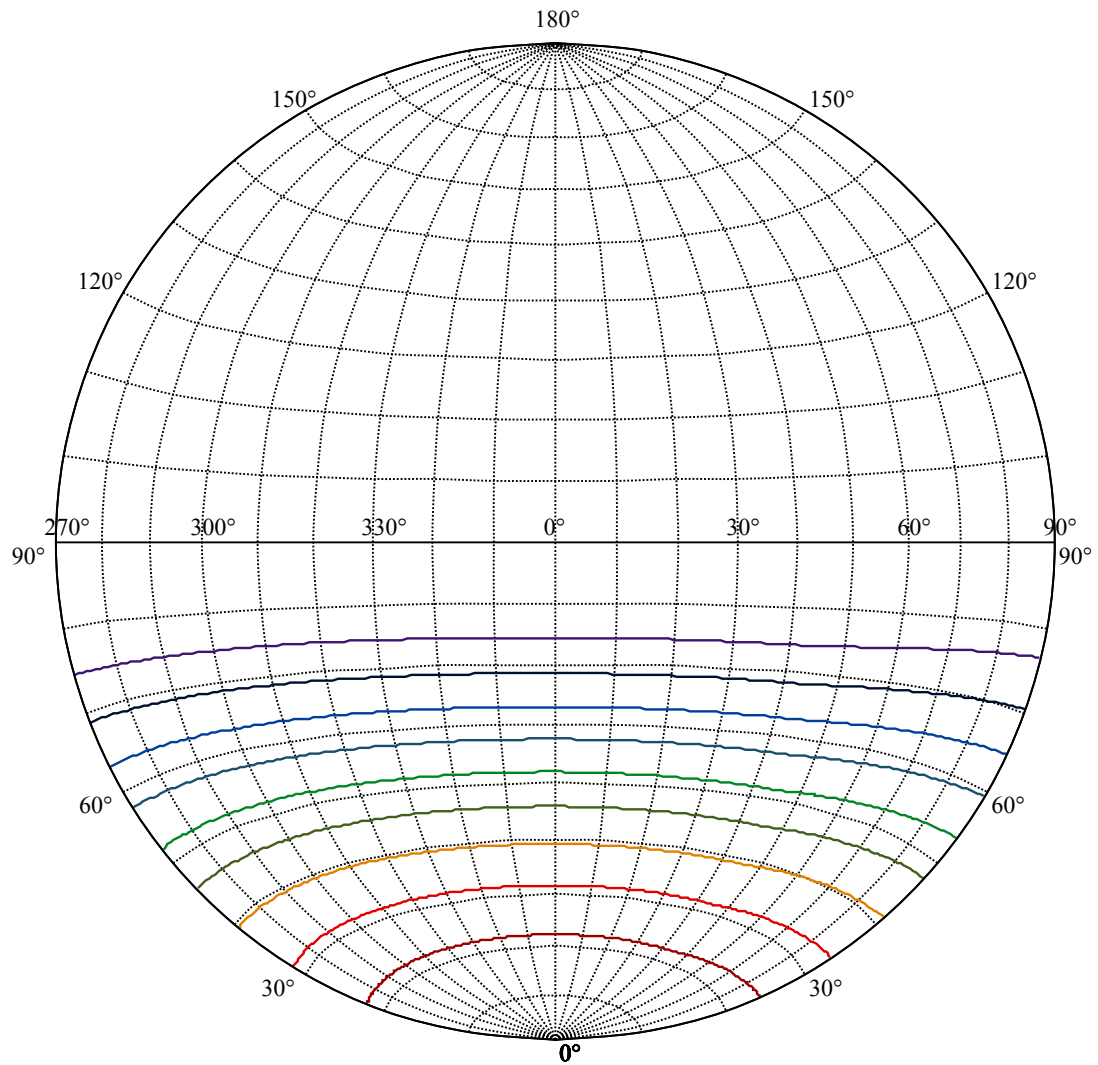
Beam Angle(50%Imax):C0/180Left:53.8 Right:51.9
:C90/270Left:52.0 Right:53.6



Max , Ave Beam angle of C0 plane 105.80



(10%Imax)	38.2805	
(20%Imax)	76.561	
(30%Imax)	114.841	
(40%Imax)	153.122	
(50%Imax)	191.402	
(60%Imax)	229.683	
(70%Imax)	267.964	
(80%Imax)	306.244	
(90%Imax)	344.525	



House

[Unit:cd]

Road

Imax:382.81

- (10%Imax) 38.2805
- (20%Imax) 76.561
- (30%Imax) 114.841
- (40%Imax) 153.122
- (50%Imax) 191.402
- (60%Imax) 229.683
- (70%Imax) 267.964
- (80%Imax) 306.244
- (90%Imax) 344.525



LL4RR-5CCT-4000K

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	382.81	380.43	374.93	365.61	352.70	335.13	314.80	289.82	263.99
45.0	382.81	380.85	375.14	365.40	352.70	334.91	313.74	290.24	263.15
90.0	382.81	381.28	376.83	368.79	357.35	342.32	322.64	299.35	274.37
135.0	382.81	381.49	376.83	368.57	357.78	342.11	323.48	299.35	274.37
180.0	382.81	382.34	377.68	369.84	358.62	343.17	324.33	301.46	275.43
225.0	382.81	382.34	378.52	370.48	359.26	344.02	325.81	302.74	276.27
270.0	382.81	379.79	373.66	364.55	351.85	335.13	314.59	290.46	264.42
315.0	382.81	380.01	374.29	364.98	352.06	335.55	314.80	290.67	264.84
360.0	382.81	380.43	374.93	365.61	352.70	335.13	314.80	289.82	263.99
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	235.63	204.29	171.06	135.49	100.14	66.69	34.51	13.76	5.08
45.0	233.93	202.39	168.94	135.07	99.92	65.42	33.45	13.55	4.87
90.0	245.79	215.30	181.85	148.62	113.47	79.39	47.21	19.27	8.05
135.0	245.58	214.67	182.28	147.77	112.84	78.75	48.27	21.17	9.53
180.0	246.63	215.94	183.55	148.83	114.74	80.45	48.48	21.38	9.53
225.0	248.75	218.05	185.24	151.16	116.01	81.51	49.75	23.08	9.95
270.0	235.41	204.08	172.11	137.82	102.68	68.38	35.14	13.55	5.08
315.0	235.84	204.51	171.48	136.55	102.25	67.75	35.57	14.18	5.50
360.0	235.63	204.29	171.06	135.49	100.14	66.69	34.51	13.76	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	0.85	0.64	1.06	0.64	0.85	0.85	0.85
45.0	0.42	0.64	0.64	0.64	0.64	0.85	0.85	0.85	1.06
90.0	0.85	0.42	0.21	0.21	0.42	0.64	0.42	0.64	0.64
135.0	1.06	0.21	0.21	0.42	0.42	0.42	0.42	0.42	0.64
180.0	1.27	0.21	0.21	0.42	0.42	0.42	0.64	0.64	0.64
225.0	1.48	0.42	0.21	0.42	0.42	0.42	0.64	0.64	0.64
270.0	0.85	0.85	1.06	1.06	0.85	1.06	1.06	1.27	1.27
315.0	0.64	1.06	0.64	0.64	0.85	0.85	0.64	1.06	1.06
360.0	0.64	0.64	0.85	0.64	1.06	0.64	0.85	0.85	0.85
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.27	1.06	1.27	1.27	1.48	1.48	1.48	1.27	1.27
45.0	1.27	1.27	1.06	1.06	1.27	1.27	1.27	1.27	1.27
90.0	0.85	0.85	1.06	1.06	1.06	1.27	1.27	1.48	1.27
135.0	0.85	1.06	1.06	1.06	1.06	1.27	1.06	1.06	1.06
180.0	0.85	0.85	1.06	1.06	1.06	1.27	1.06	1.06	1.27
225.0	0.85	0.85	1.06	0.85	0.85	1.06	1.06	1.48	1.27
270.0	1.27	1.27	1.27	1.48	1.69	1.48	1.48	1.48	1.69
315.0	1.06	1.48	1.27	1.27	1.48	1.06	1.27	1.06	1.48
360.0	1.27	1.06	1.27	1.27	1.48	1.48	1.48	1.27	1.27
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								