



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:LD4S-HO-5CCT-5000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.02

LampCAT:

Current(A): 0.1570

Lamp flux(lm): -1.0

Power (W): 18.60

Number of Lamps: 0

PF: 0.9852

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1799.13, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 96.73

Central intensity(cd): 4897.248, Maximum intensity(cd): 4897.248

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.6

[C90/270]Total=35.7

Field angle(10%Imax): [C0/180]Total=52.1

[C90/270]Total=51.8

Maximum s/h(1/2): C0_180=0.65 C90_270=0.66

Maximum s/h(1/4): C0_180=0.60 C90_270=0.61

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.13%

Down flux rate of LUM(%): 99.87%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.916%

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

Date:
Humidity(%): 59%

Operator: Tester

Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4864.834	0.000	0	0.00%	0.00%
5.0	4619.842	113.387	113.387	0.00%	6.30%
10.0	4013.683	308.848	422.235	0.00%	23.47%
15.0	3121.366	423.246	845.481	0.00%	46.99%
20.0	1849.325	409.655	1255.136	0.00%	69.76%
25.0	721.551	269.637	1524.773	0.00%	84.75%
30.0	166.227	112.349	1637.123	0.00%	90.99%
35.0	82.736	36.661	1673.784	0.00%	93.03%
40.0	57.480	23.394	1697.178	0.00%	94.33%
45.0	44.839	18.945	1716.123	0.00%	95.39%
50.0	38.086	16.756	1732.879	0.00%	96.32%
55.0	32.144	15.270	1748.149	0.00%	97.17%
60.0	26.255	13.499	1761.648	0.00%	97.92%
65.0	20.610	11.393	1773.041	0.00%	98.55%
70.0	15.451	9.131	1782.172	0.00%	99.06%
75.0	10.616	6.813	1788.985	0.00%	99.44%
80.0	6.456	4.568	1793.553	0.00%	99.69%
85.0	2.512	2.437	1795.989	0.00%	99.83%
90.0	0.162	0.732	1796.722	0.00%	99.87%
95.0	0.027	0.052	1796.773	0.00%	99.87%
100.0	0.054	0.022	1796.795	0.00%	99.87%
105.0	0.027	0.022	1796.817	0.00%	99.87%
110.0	0.027	0.014	1796.831	0.00%	99.87%
115.0	0.027	0.014	1796.845	0.00%	99.87%
120.0	0.081	0.026	1796.871	0.00%	99.87%
125.0	0.081	0.037	1796.908	0.00%	99.88%
130.0	0.108	0.041	1796.95	0.00%	99.88%
135.0	0.135	0.049	1796.999	0.00%	99.88%
140.0	0.378	0.095	1797.094	0.00%	99.89%
145.0	0.621	0.167	1797.26	0.00%	99.90%
150.0	1.081	0.251	1797.511	0.00%	99.91%
155.0	1.513	0.328	1797.839	0.00%	99.93%
160.0	2.026	0.371	1798.21	0.00%	99.95%
165.0	2.404	0.365	1798.575	0.00%	99.97%
170.0	2.593	0.296	1798.872	0.00%	99.99%
175.0	2.836	0.194	1799.066	0.00%	100.00%
180.0	2.917	0.069	1799.135	0.00%	100.00%

Equipment: GMS-3000
Temperature($^{\circ}$ C): 25

Date:
Humidity(%): 59%

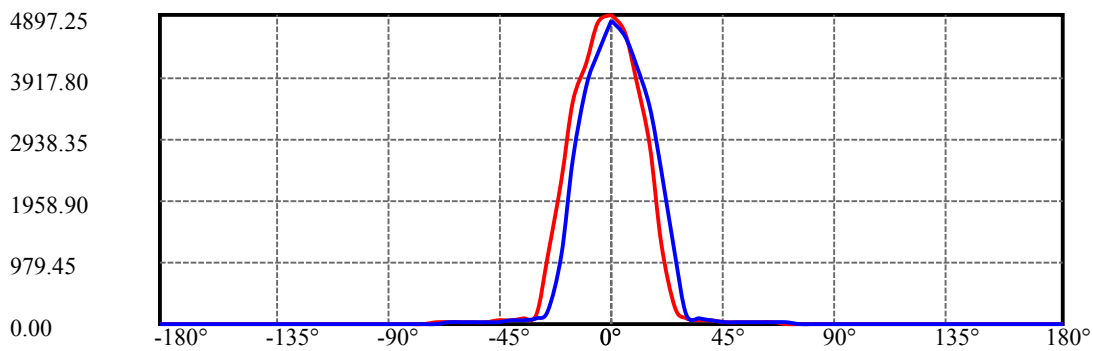
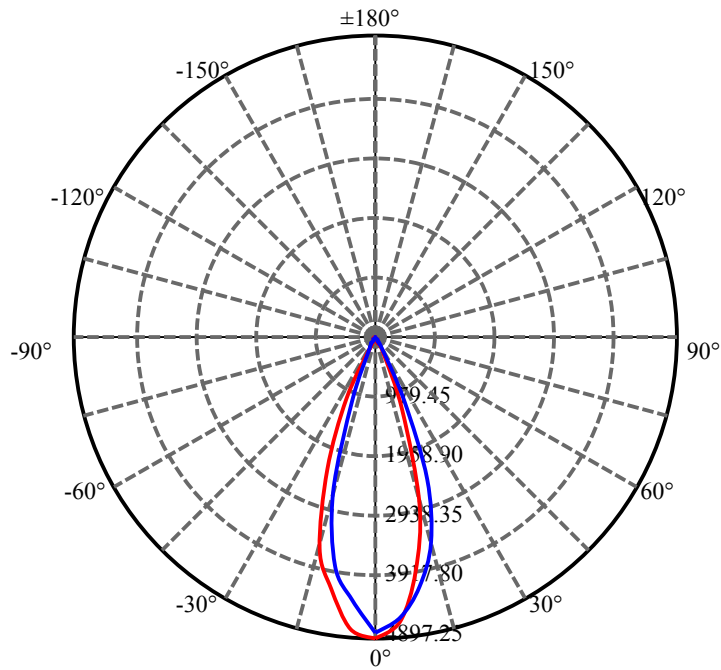
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1637.12	N.A.	90.99%
0-40	1697.18	N.A.	94.33%
0-60	1761.65	N.A.	97.92%
0-90	1796.72	N.A.	99.87%
0-120	1796.87	N.A.	99.87%
0-180	1799.13	N.A.	100.00%
60-90	35.07	N.A.	1.95%
90-120	0.15	N.A.	0.01%
90-130	0.23	N.A.	0.01%
90-150	0.79	N.A.	0.04%
90-180	2.34	N.A.	0.13%
0-23.42	1439.31	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	422.23
10-20	832.90
20-30	381.99
30-40	60.06
40-50	35.70
50-60	28.77
60-70	20.52
70-80	11.38
80-90	3.17
90-100	0.07
100-110	0.04
110-120	0.04
120-130	0.08
130-140	0.14
140-150	0.42
150-160	0.70
160-170	0.66
170-180	0.19

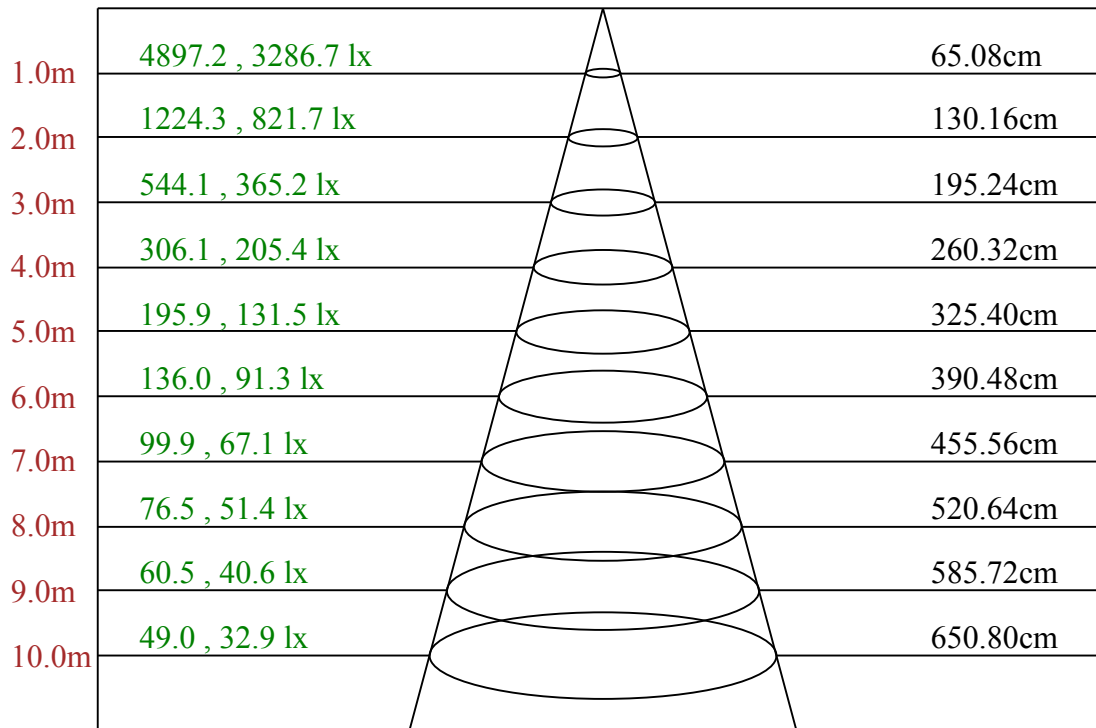


C0/C180: —

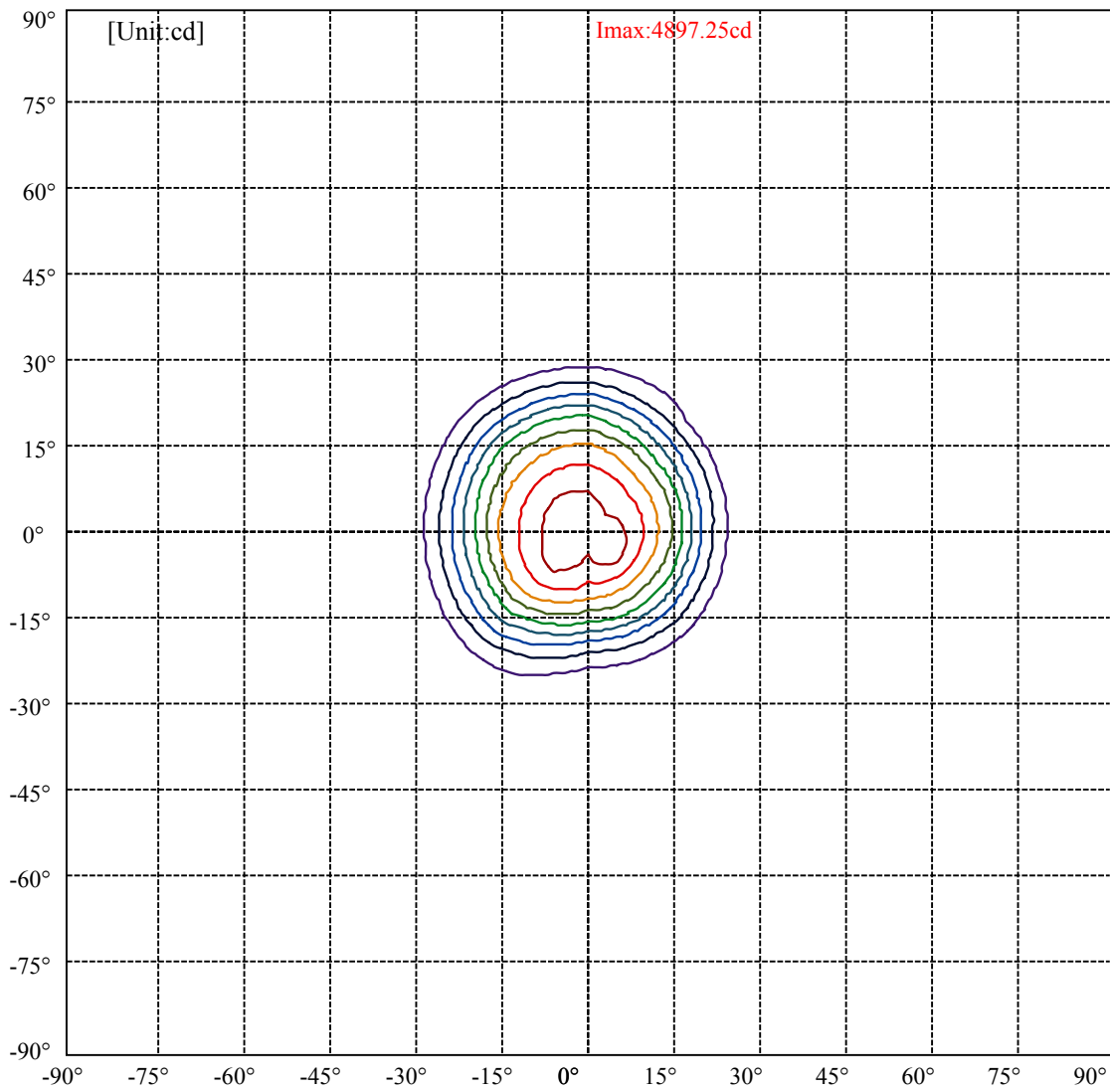
C90/C270: —

Field angle(10%Imax):C0/180Left:28.2 Right:23.9
:C90/270Left:23.4 Right:28.4

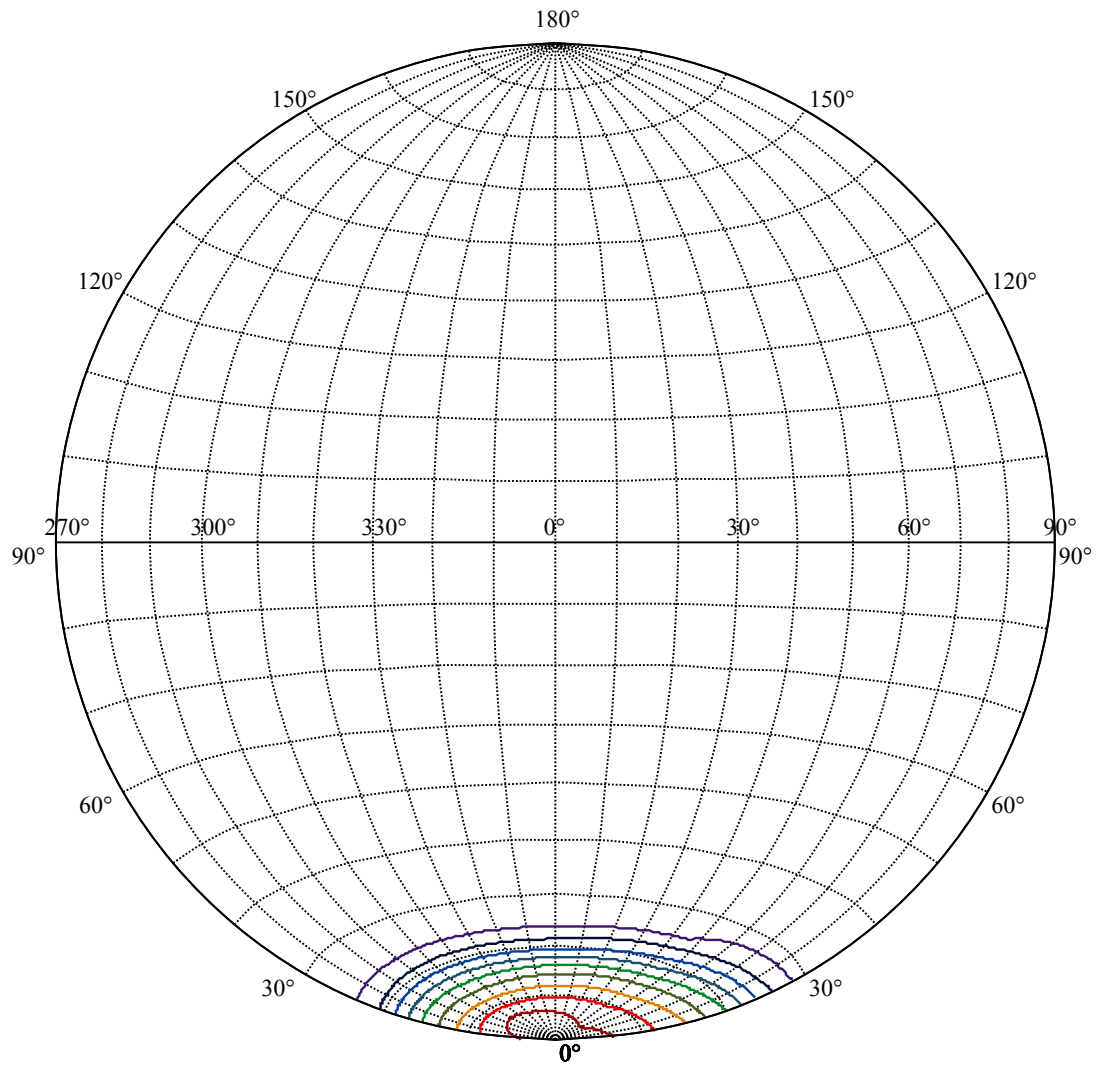
Beam Angle(50%Imax):C0/180Left:19.4 Right:16.2
:C90/270Left:15.6 Right:20.1



Max , Ave Beam angle of C0 plane 36.05



(10%Imax) 489.344	—
(20%Imax) 978.688	—
(30%Imax) 1468.03	—
(40%Imax) 1957.38	—
(50%Imax) 2446.72	—
(60%Imax) 2936.06	—
(70%Imax) 3425.41	—
(80%Imax) 3914.75	—
(90%Imax) 4404.1	—



House

[Unit:cd]

Road

Imax:4897.25

(10%Imax) 489.725	—
(20%Imax) 979.45	—
(30%Imax) 1469.17	—
(40%Imax) 1958.9	—
(50%Imax) 2448.62	—
(60%Imax) 2938.35	—
(70%Imax) 3428.07	—
(80%Imax) 3917.8	—
(90%Imax) 4407.52	—

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	4897.25	4620.65	3852.24	2819.76	1276.01	274.65	92.70	60.29	49.27
45.0	4871.32	4306.24	3866.50	2951.57	1635.15	471.51	183.46	97.46	53.59
90.0	4817.29	4560.15	4117.16	3451.61	2444.63	1132.96	163.80	81.25	56.40
135.0	4873.48	4696.28	4233.85	3503.47	2587.25	1249.65	319.60	116.04	76.06
180.0	4897.25	4763.27	4145.26	3542.36	2289.04	1087.58	146.29	80.17	56.40
225.0	4871.32	4819.46	4352.70	3473.22	2245.82	1076.78	221.71	92.49	65.69
270.0	4817.29	4295.44	3779.63	2600.86	1081.10	203.99	93.78	62.02	50.78
315.0	4873.48	4897.25	3762.13	2628.09	1235.60	275.30	108.48	72.17	51.65
360.0	4897.25	4620.65	3852.24	2819.76	1276.01	274.65	92.70	60.29	49.27
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	42.79	36.52	30.25	23.77	18.15	13.40	8.64	4.75	1.30
45.0	43.22	35.22	30.04	23.99	18.58	13.40	9.08	5.40	1.73
90.0	45.16	39.11	33.28	27.23	21.39	15.99	11.67	7.13	2.81
135.0	47.32	39.76	33.28	27.88	22.26	17.07	12.32	7.78	4.11
180.0	46.46	40.41	34.79	29.17	23.12	17.72	12.75	8.43	4.11
225.0	47.54	39.76	33.49	28.31	22.47	17.29	12.10	7.78	3.46
270.0	43.43	37.82	31.77	25.50	19.88	14.91	9.51	5.19	1.51
315.0	42.79	36.09	30.25	24.20	19.02	13.83	8.86	5.19	1.08
360.0	42.79	36.52	30.25	23.77	18.15	13.40	8.64	4.75	1.30
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	0.22	0.22
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.43	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	0.22	0.22	0.43	0.22	0.22	0.22	0.43	0.22	0.43
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.22	0.65	0.65	1.30	1.73	2.38	2.59	2.59	3.03
45.0	0.22	0.43	0.65	1.30	1.51	1.95	2.38	2.59	2.81
90.0	0.00	0.22	0.43	0.86	1.30	1.95	2.16	2.38	2.81
135.0	0.00	0.22	0.22	0.86	1.08	1.73	2.16	2.59	2.81
180.0	0.00	0.22	0.43	0.65	1.30	1.51	1.95	2.59	2.81
225.0	0.00	0.00	0.43	0.65	1.30	1.73	2.16	2.38	2.38
270.0	0.43	0.86	1.30	1.73	2.16	2.59	3.24	3.03	3.24
315.0	0.22	0.43	0.86	1.30	1.73	2.38	2.59	2.59	2.81
360.0	0.22	0.65	0.65	1.30	1.73	2.38	2.59	2.59	3.03
C/ γ (°)	180.0								
0.0	2.81								
45.0	2.59								
90.0	3.24								
135.0	3.03								
180.0	2.81								
225.0	2.59								
270.0	3.24								
315.0	3.03								
360.0	2.81								