



Shenzhen Belling Efficiency
www.bellingeel.com

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Client:

LumCAT: LL4G-HO-5CCT(4000K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.070

LampCAT:

Current(A): 0.123

Lamp flux(lm): -1.0

Power (W): 14.543

Number of Lamps: 1

PF: 0.988

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1507.14, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 103.63

Central intensity(cd): 2386.539, Maximum intensity(cd): 2386.539

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=40.4

[C90/270]Total=41.4

Field angle(10%Imax): [C0/180]Total=76.9

[C90/270]Total=77.9

Maximum s/h(1/2): C0_180=0.59 C90_270=0.65

Maximum s/h(1/4): C0_180=0.66 C90_270=0.73

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.10%

Down flux rate of LUM(%): 99.90%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 96.582%

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

Date:
Humidity(%): 58%

Operator: Sam

LL4G-HO-5CCT(4000K)

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	2386.539	0.000	0	0.00%	0.00%
5.0	2244.599	55.364	55.364	0.00%	3.67%
10.0	1924.125	149.128	204.492	0.00%	13.57%
15.0	1556.741	206.483	410.975	0.00%	27.27%
20.0	1226.069	229.343	640.318	0.00%	42.49%
25.0	922.848	225.382	865.699	0.00%	57.44%
30.0	605.440	193.406	1059.105	0.00%	70.27%
35.0	340.996	139.369	1198.475	0.00%	79.52%
40.0	201.063	90.438	1288.913	0.00%	85.52%
45.0	136.477	62.498	1351.411	0.00%	89.67%
50.0	91.960	46.159	1397.57	0.00%	92.73%
55.0	61.661	33.402	1430.972	0.00%	94.95%
60.0	44.971	24.648	1455.62	0.00%	96.58%
65.0	33.411	19.055	1474.675	0.00%	97.85%
70.0	21.915	14.009	1488.684	0.00%	98.78%
75.0	11.951	8.852	1497.536	0.00%	99.36%
80.0	6.022	4.809	1502.345	0.00%	99.68%
85.0	2.800	2.397	1504.742	0.00%	99.84%
90.0	0.548	0.917	1505.658	0.00%	99.90%
95.0	0.016	0.154	1505.813	0.00%	99.91%
100.0	0.031	0.013	1505.825	0.00%	99.91%
105.0	0.031	0.017	1505.842	0.00%	99.91%
110.0	0.016	0.012	1505.854	0.00%	99.91%
115.0	0.031	0.012	1505.866	0.00%	99.92%
120.0	0.016	0.011	1505.878	0.00%	99.92%
125.0	0.047	0.014	1505.892	0.00%	99.92%
130.0	0.110	0.034	1505.926	0.00%	99.92%
135.0	0.125	0.047	1505.973	0.00%	99.92%
140.0	0.172	0.055	1506.028	0.00%	99.93%
145.0	0.282	0.076	1506.104	0.00%	99.93%
150.0	0.657	0.138	1506.242	0.00%	99.94%
155.0	0.845	0.190	1506.432	0.00%	99.95%
160.0	1.111	0.205	1506.638	0.00%	99.97%
165.0	1.314	0.200	1506.837	0.00%	99.98%
170.0	1.408	0.161	1506.999	0.00%	99.99%
175.0	1.455	0.102	1507.101	0.00%	100.00%
180.0	1.546	0.036	1507.137	0.00%	100.00%

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

Date:
Humidity(%): 58%

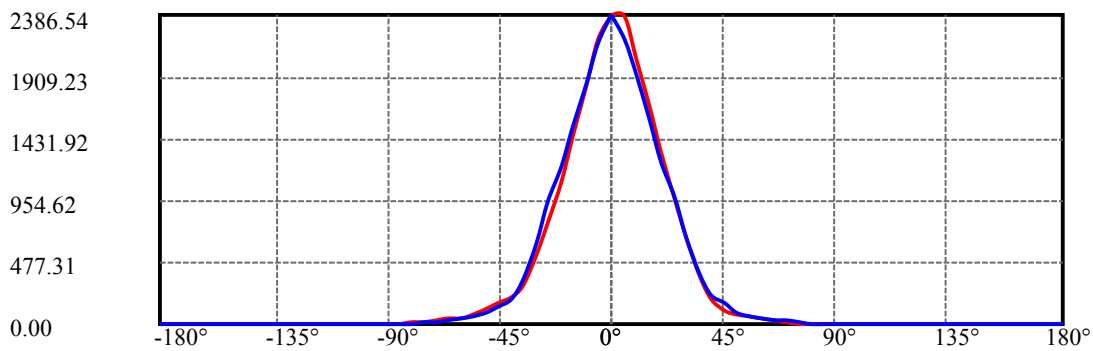
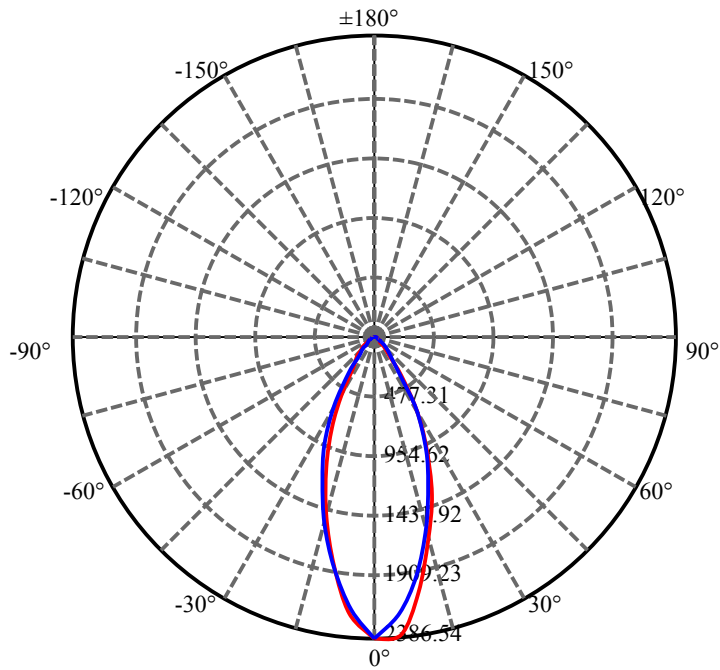
Operator: Sam

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1059.11	N.A.	70.27%
0-40	1288.91	N.A.	85.52%
0-60	1455.62	N.A.	96.58%
0-90	1505.66	N.A.	99.90%
0-120	1505.88	N.A.	99.92%
0-180	1507.14	N.A.	100.00%
60-90	50.04	N.A.	3.32%
90-120	0.22	N.A.	0.01%
90-130	0.27	N.A.	0.02%
90-150	0.58	N.A.	0.04%
90-180	1.44	N.A.	0.10%
0-35.40	1205.71	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	204.49
10-20	435.83
20-30	418.79
30-40	229.81
40-50	108.66
50-60	58.05
60-70	33.06
70-80	13.66
80-90	3.31
90-100	0.17
100-110	0.03
110-120	0.02
120-130	0.05
130-140	0.10
140-150	0.21
150-160	0.40
160-170	0.36
170-180	0.10

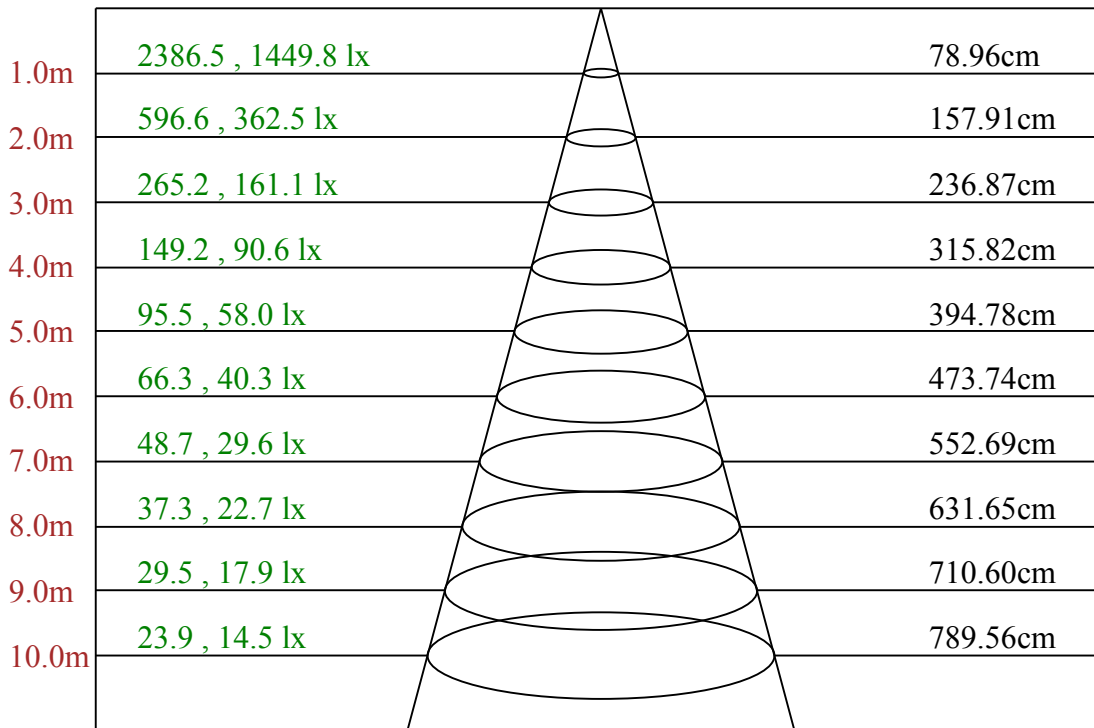


C0/C180: —

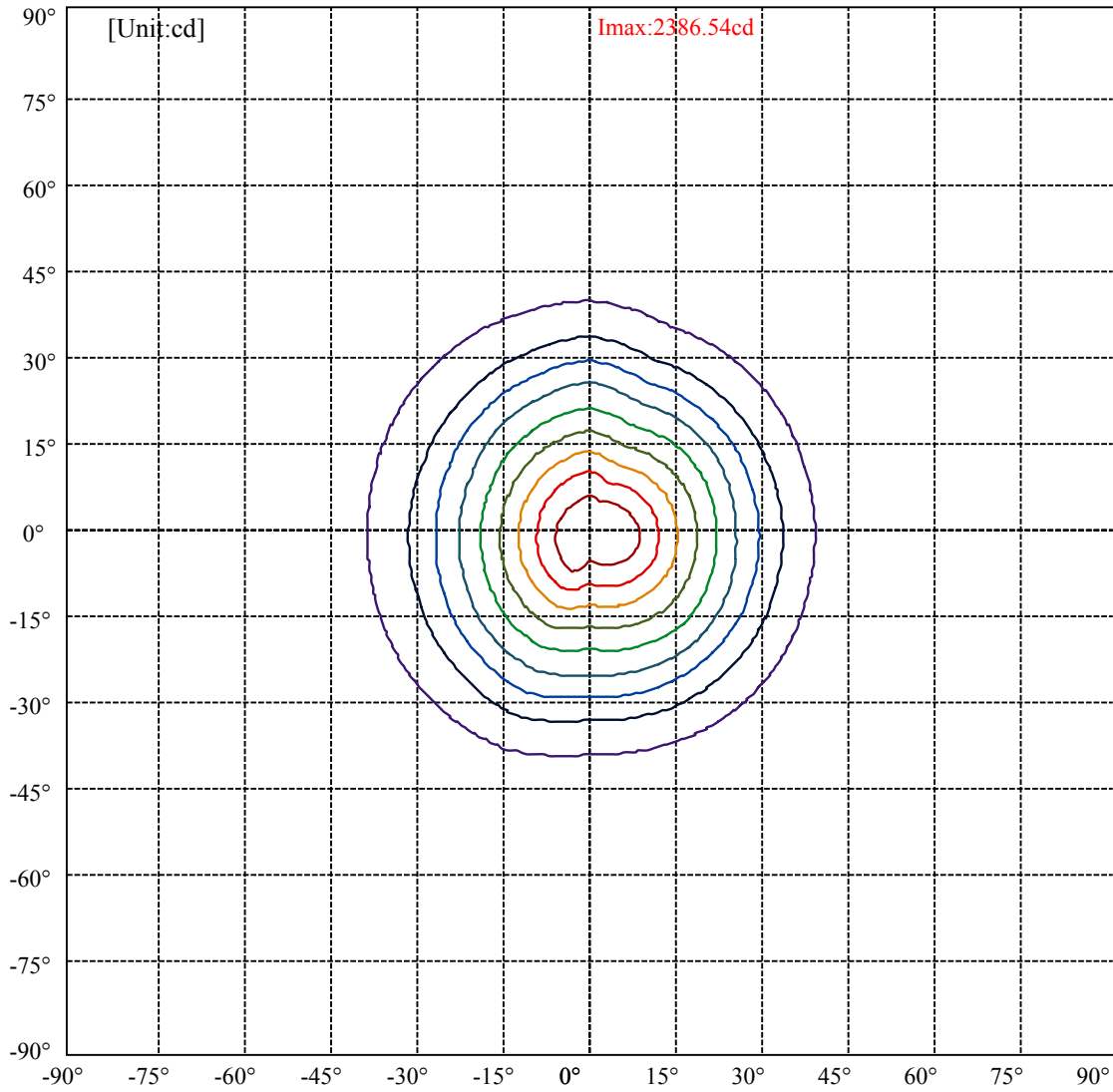
C90/C270: —

Field angle(10%Imax):C0/180Left:38.2 Right:38.7
:C90/270Left:38.5 Right:39.4

Beam Angle(50%Imax):C0/180Left:18.6 Right:21.8
:C90/270Left:20.4 Right:21.0



Max , Ave Beam angle of C0 plane 43.09



(10%Imax) 238.654	—
(20%Imax) 477.308	—
(30%Imax) 715.962	—
(40%Imax) 954.616	—
(50%Imax) 1193.27	—
(60%Imax) 1431.92	—
(70%Imax) 1670.58	—
(80%Imax) 1909.23	—
(90%Imax) 2147.89	—

LL4G-HO-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	2386.54	2364.57	2047.98	1671.57	1318.69	961.05	663.22	371.65	193.21
22.5	2386.54	2307.26	1989.17	1630.27	1294.41	961.30	611.92	325.10	183.70
45.0	2386.54	2228.93	1910.58	1555.44	1221.33	913.49	567.87	300.83	180.70
67.5	2386.54	2164.36	1824.24	1467.10	1153.26	859.19	531.83	287.81	181.95
90.0	2386.54	2200.40	1921.59	1564.45	1247.61	981.57	668.98	381.17	219.99
112.5	2386.54	2172.36	1878.29	1509.39	1189.29	905.24	578.88	329.11	208.48
135.0	2386.54	2164.86	1847.26	1469.35	1136.99	848.92	516.81	300.08	202.47
157.5	2386.54	2176.12	1834.25	1440.57	1092.94	798.37	503.55	294.32	201.47
180.0	2386.54	2193.89	1835.75	1455.83	1095.94	790.36	526.82	303.08	202.72
202.5	2386.54	2233.68	1878.04	1492.88	1145.50	838.91	553.85	317.35	206.22
225.0	2386.54	2283.74	1935.11	1556.95	1224.33	923.51	608.41	352.13	213.23
247.5	2386.54	2328.53	1999.18	1615.01	1290.66	1000.09	705.52	426.21	232.25
270.0	2386.54	2166.36	1855.77	1522.66	1214.32	947.53	627.93	340.62	194.21
292.5	2386.54	2230.18	1936.36	1600.49	1286.90	989.58	667.73	373.91	200.47
315.0	2386.54	2319.02	2016.95	1663.56	1355.23	1036.38	674.23	374.66	200.47
337.5	2386.54	2379.34	2075.51	1692.34	1349.72	1010.10	679.49	377.91	195.46
360.0	2386.54	2364.57	2047.98	1671.57	1318.69	961.05	663.22	371.65	193.21
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	109.37	69.33	52.81	37.29	26.53	14.27	6.51	2.75	0.00
22.5	107.62	67.82	51.56	36.79	26.53	13.52	6.51	3.00	0.00
45.0	108.37	68.83	51.31	37.29	27.03	14.27	6.51	3.25	0.25
67.5	109.62	70.83	51.56	37.79	27.28	15.27	7.01	3.50	0.50
90.0	158.42	94.10	63.07	48.55	35.29	24.53	13.01	7.26	3.75
112.5	156.67	102.61	67.07	48.55	36.54	26.03	14.52	7.51	4.26
135.0	157.92	109.37	68.07	49.55	37.79	26.53	16.77	8.26	4.76
157.5	155.17	112.87	69.33	50.31	38.79	27.53	17.77	8.76	5.76
180.0	156.67	114.63	69.83	51.06	39.54	28.78	18.27	9.01	6.26
202.5	159.17	116.38	71.08	52.56	40.29	29.03	18.27	8.51	6.01
225.0	161.93	115.13	72.08	52.81	40.29	29.03	18.27	8.76	5.26
247.5	165.68	113.87	73.08	52.56	39.54	28.03	17.52	8.01	4.76
270.0	131.14	83.59	57.81	43.80	31.79	21.27	8.76	6.01	2.00
292.5	119.88	84.09	58.06	42.05	30.53	19.52	7.76	4.51	0.75
315.0	114.37	76.33	56.06	40.54	29.03	17.52	7.26	4.00	0.50
337.5	111.62	71.58	53.81	38.04	27.78	15.52	6.51	3.25	0.00
360.0	109.37	69.33	52.81	37.29	26.53	14.27	6.51	2.75	0.00
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
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	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
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.25	0.25	0.25	0.50	0.25	0.50	0.25	0.50	0.50
292.5	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.25	0.50
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

LL4G-HO-5CCT(4000K)

Intensity data(cd)

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	0.25	0.75	0.75	1.50	1.25	1.25	1.50
22.5	0.25	0.25	0.50	1.00	1.00	0.75	1.50	1.50	1.75
45.0	0.25	0.25	0.25	0.75	1.00	1.25	1.50	1.50	1.75
67.5	0.25	0.25	0.50	1.00	1.00	1.50	1.25	1.50	1.50
90.0	0.00	0.50	0.25	0.75	0.75	1.00	1.25	1.50	1.25
112.5	0.00	0.00	0.25	0.50	1.00	0.75	1.25	1.25	1.25
135.0	0.00	0.00	0.25	0.50	0.50	1.00	1.00	1.25	1.25
157.5	0.00	0.00	0.25	0.50	0.50	1.00	1.25	1.25	1.25
180.0	0.00	0.25	0.00	0.50	1.00	1.00	1.25	1.25	1.25
202.5	0.00	0.00	0.00	0.50	0.75	1.00	1.25	1.50	1.25
225.0	0.00	0.00	0.00	0.50	0.75	1.00	1.25	1.25	1.50
247.5	0.00	0.00	0.00	0.25	0.50	1.00	1.00	1.50	1.50
270.0	0.50	0.75	0.75	1.25	1.25	1.50	1.75	1.75	1.75
292.5	0.50	0.25	0.50	0.75	1.00	1.25	1.25	1.50	1.75
315.0	0.25	0.00	0.50	0.50	1.00	1.00	1.50	1.25	1.50
337.5	0.00	0.25	0.25	0.50	0.75	1.25	1.50	1.50	1.25
360.0	0.00	0.00	0.25	0.75	0.75	1.50	1.25	1.25	1.50
C/γ(°)	180.0								
0.0	1.55								
22.5	1.55								
45.0	1.55								
67.5	1.55								
90.0	1.55								
112.5	1.55								
135.0	1.55								
157.5	1.55								
180.0	1.55								
202.5	1.55								
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337.5	1.55								
360.0	1.55								