



Shenzhen Belling Efficiency
www.bellingeel.com

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Client:

LumCAT: LL4G-HO-5CCT(3500K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.050

LampCAT:

Current(A): 0.120

Lamp flux(lm): -1.0

Power (W): 14.265

Number of Lamps: 1

PF: 0.988

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1428.17, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 100.12

Central intensity(cd): 2261.502, Maximum intensity(cd): 2261.502

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(3500K)

Zonal flux distribution table

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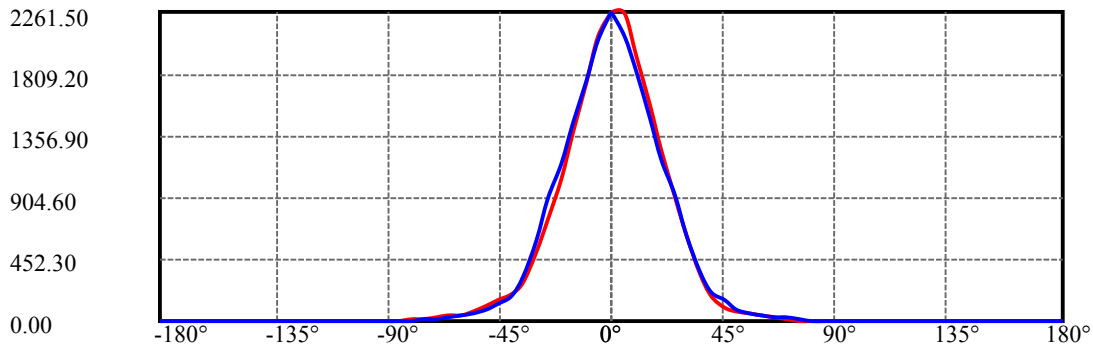
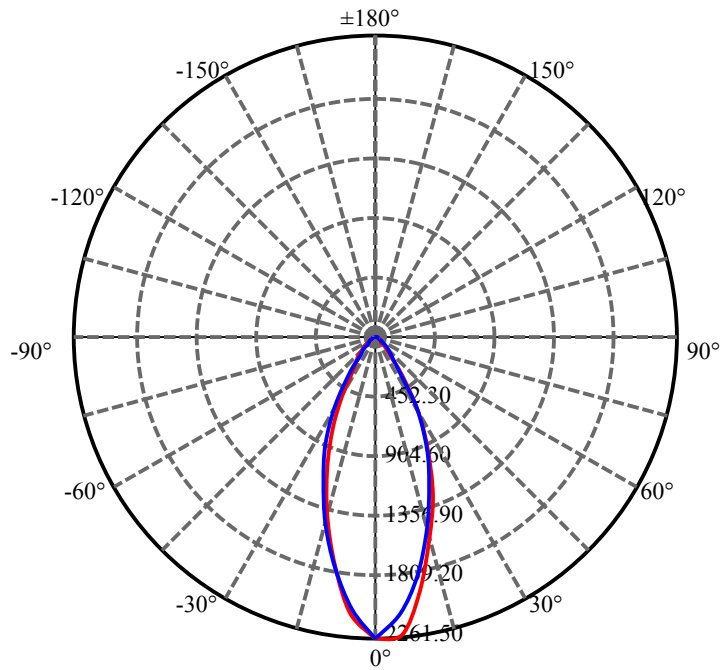
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2261.502	0.000	0	0.00%	0.00%
5.0	2126.999	52.463	52.463	0.00%	3.67%
10.0	1823.316	141.315	193.778	0.00%	13.57%
15.0	1475.180	195.665	389.443	0.00%	27.27%
20.0	1161.832	217.327	606.77	0.00%	42.49%
25.0	874.498	213.573	820.343	0.00%	57.44%
30.0	573.720	183.273	1003.616	0.00%	70.27%
35.0	323.131	132.067	1135.684	0.00%	79.52%
40.0	190.528	85.700	1221.384	0.00%	85.52%
45.0	129.326	59.224	1280.608	0.00%	89.67%
50.0	87.141	43.740	1324.348	0.00%	92.73%
55.0	58.430	31.652	1356	0.00%	94.95%
60.0	42.615	23.356	1379.356	0.00%	96.58%
65.0	31.661	18.057	1397.413	0.00%	97.85%
70.0	20.766	13.275	1410.688	0.00%	98.78%
75.0	11.324	8.388	1419.076	0.00%	99.36%
80.0	5.707	4.557	1423.633	0.00%	99.68%
85.0	2.653	2.272	1425.905	0.00%	99.84%
90.0	0.519	0.868	1426.773	0.00%	99.90%
95.0	0.015	0.146	1426.919	0.00%	99.91%
100.0	0.030	0.012	1426.931	0.00%	99.91%
105.0	0.030	0.016	1426.947	0.00%	99.91%
110.0	0.015	0.012	1426.959	0.00%	99.91%
115.0	0.030	0.011	1426.97	0.00%	99.92%
120.0	0.015	0.011	1426.981	0.00%	99.92%
125.0	0.044	0.014	1426.994	0.00%	99.92%
130.0	0.104	0.032	1427.027	0.00%	99.92%
135.0	0.119	0.045	1427.072	0.00%	99.92%
140.0	0.163	0.052	1427.124	0.00%	99.93%
145.0	0.267	0.072	1427.195	0.00%	99.93%
150.0	0.622	0.131	1427.326	0.00%	99.94%
155.0	0.800	0.180	1427.506	0.00%	99.95%
160.0	1.053	0.194	1427.701	0.00%	99.97%
165.0	1.245	0.189	1427.89	0.00%	99.98%
170.0	1.334	0.153	1428.043	0.00%	99.99%
175.0	1.379	0.097	1428.14	0.00%	100.00%
180.0	1.465	0.034	1428.174	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1003.62	N.A.	70.27%
0-40	1221.38	N.A.	85.52%
0-60	1379.36	N.A.	96.58%
0-90	1426.77	N.A.	99.90%
0-120	1426.98	N.A.	99.92%
0-180	1428.17	N.A.	100.00%
60-90	47.42	N.A.	3.32%
90-120	0.21	N.A.	0.01%
90-130	0.25	N.A.	0.02%
90-150	0.55	N.A.	0.04%
90-180	1.37	N.A.	0.10%
0-35.40	1142.54	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	193.78
10-20	412.99
20-30	396.85
30-40	217.77
40-50	102.96
50-60	55.01
60-70	31.33
70-80	12.95
80-90	3.14
90-100	0.16
100-110	0.03
110-120	0.02
120-130	0.05
130-140	0.10
140-150	0.20
150-160	0.37
160-170	0.34
170-180	0.10

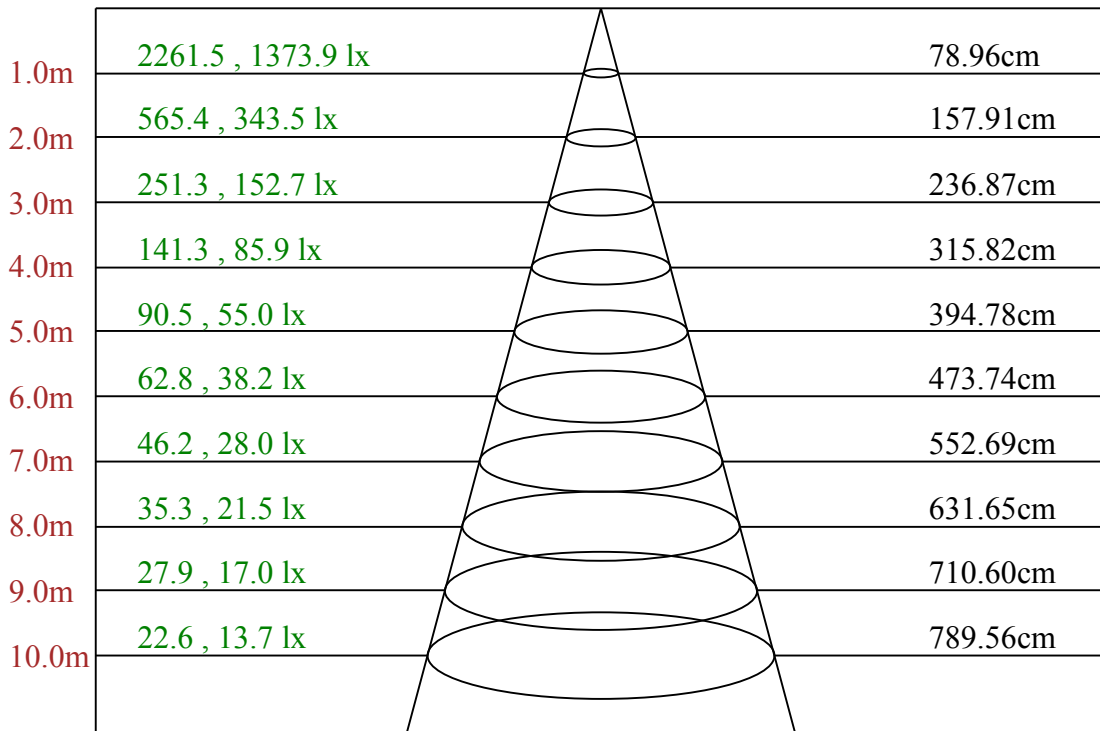


C0/C180: —

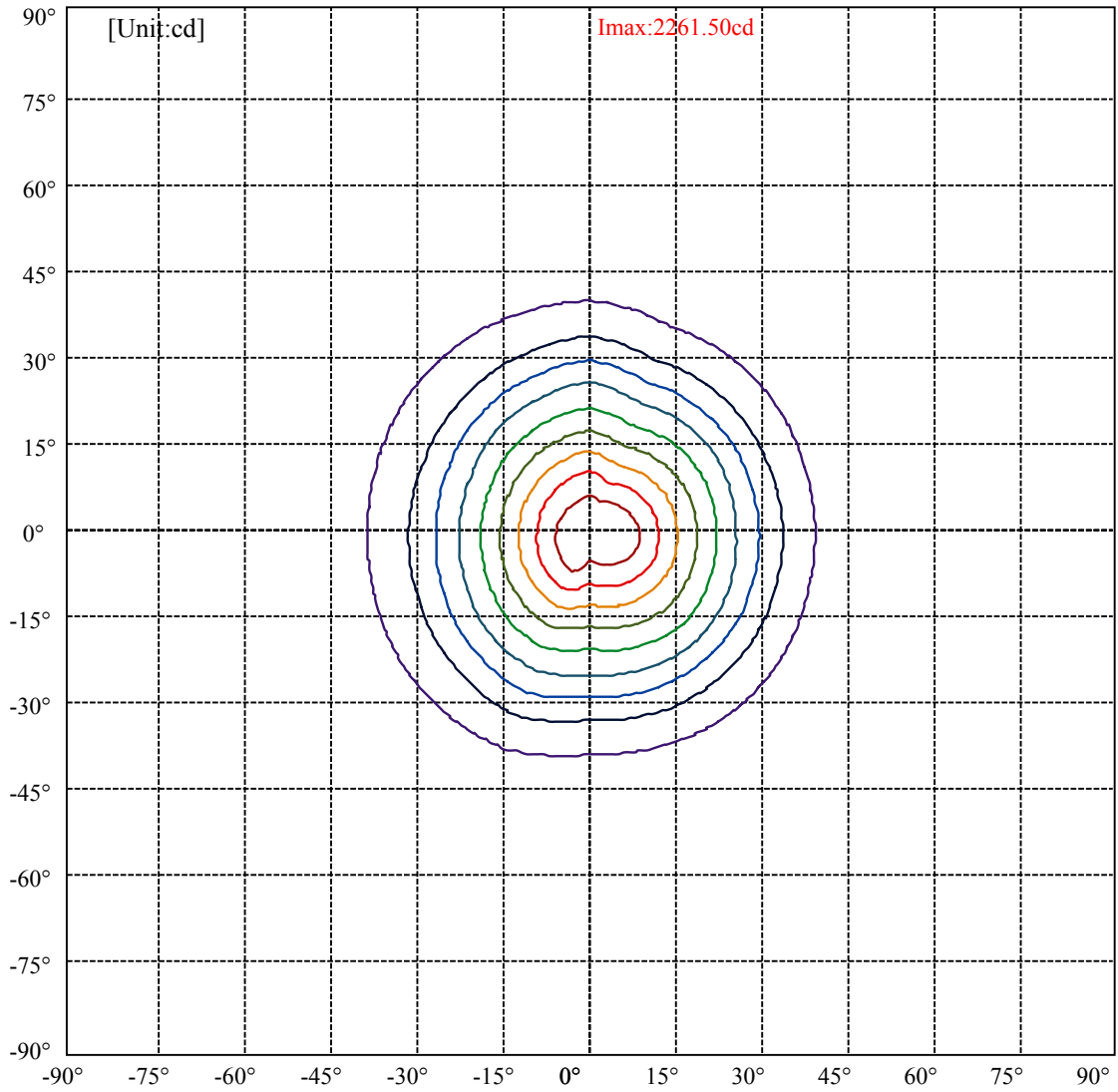
C90/C270: —

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%I_{max}) 226.15
- (20%I_{max}) 452.3
- (30%I_{max}) 678.451
- (40%I_{max}) 904.601
- (50%I_{max}) 1130.75
- (60%I_{max}) 1356.9
- (70%I_{max}) 1583.05
- (80%I_{max}) 1809.2
- (90%I_{max}) 2035.35

LL4G-HO-5CCT(3500K)

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	2261.50	2240.69	1940.68	1583.99	1249.60	910.69	628.47	352.18	183.09
22.5	2261.50	2186.38	1884.95	1544.86	1226.59	910.93	579.86	308.07	174.08
45.0	2261.50	2112.15	1810.48	1473.95	1157.34	865.63	538.12	285.07	171.23
67.5	2261.50	2050.96	1728.66	1390.23	1092.83	814.17	503.97	272.73	172.42
90.0	2261.50	2085.11	1820.91	1482.49	1182.24	930.14	633.93	361.20	208.46
112.5	2261.50	2058.55	1779.89	1430.31	1126.98	857.81	548.55	311.87	197.55
135.0	2261.50	2051.43	1750.48	1392.37	1077.42	804.45	489.74	284.36	191.86
157.5	2261.50	2062.11	1738.15	1365.09	1035.68	756.54	477.17	278.90	190.91
180.0	2261.50	2078.94	1739.57	1379.56	1038.52	748.95	499.22	287.20	192.10
202.5	2261.50	2116.65	1779.65	1414.66	1085.48	794.96	524.84	300.72	195.42
225.0	2261.50	2164.09	1833.72	1475.37	1160.19	875.12	576.54	333.68	202.06
247.5	2261.50	2206.54	1894.43	1530.39	1223.03	947.69	668.55	403.88	220.08
270.0	2261.50	2052.86	1758.54	1442.88	1150.70	897.89	595.03	322.78	184.04
292.5	2261.50	2113.33	1834.91	1516.64	1219.48	937.73	632.74	354.32	189.97
315.0	2261.50	2197.52	1911.27	1576.40	1284.22	982.08	638.91	355.03	189.97
337.5	2261.50	2254.68	1966.77	1603.68	1279.00	957.18	643.89	358.11	185.22
360.0	2261.50	2240.69	1940.68	1583.99	1249.60	910.69	628.47	352.18	183.09
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	103.64	65.69	50.04	35.34	25.14	13.52	6.17	2.61	0.00
22.5	101.98	64.27	48.86	34.86	25.14	12.81	6.17	2.85	0.00
45.0	102.69	65.22	48.62	35.34	25.61	13.52	6.17	3.08	0.24
67.5	103.88	67.12	48.86	35.81	25.85	14.47	6.64	3.32	0.47
90.0	150.12	89.17	59.76	46.01	33.44	23.24	12.33	6.88	3.56
112.5	148.46	97.24	63.56	46.01	34.63	24.67	13.76	7.12	4.03
135.0	149.65	103.64	64.51	46.96	35.81	25.14	15.89	7.83	4.51
157.5	147.04	106.96	65.69	47.67	36.76	26.09	16.84	8.30	5.46
180.0	148.46	108.62	66.17	48.38	37.47	27.27	17.31	8.54	5.93
202.5	150.83	110.28	67.35	49.80	38.18	27.51	17.31	8.06	5.69
225.0	153.44	109.09	68.30	50.04	38.18	27.51	17.31	8.30	4.98
247.5	157.00	107.91	69.25	49.80	37.47	26.56	16.60	7.59	4.51
270.0	124.27	79.21	54.78	41.50	30.12	20.16	8.30	5.69	1.90
292.5	113.60	79.69	55.02	39.84	28.93	18.50	7.35	4.27	0.71
315.0	108.38	72.33	53.12	38.42	27.51	16.60	6.88	3.80	0.47
337.5	105.77	67.83	50.99	36.05	26.33	14.70	6.17	3.08	0.00
360.0	103.64	65.69	50.04	35.34	25.14	13.52	6.17	2.61	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	0.24
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	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.24	0.24	0.24	0.47	0.24	0.47	0.24	0.47	0.47
292.5	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.24	0.47
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

LL4G-HO-5CCT(3500K)

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	0.24	0.71	0.71	1.42	1.19	1.19	1.42
22.5	0.24	0.24	0.47	0.95	0.95	0.71	1.42	1.42	1.66
45.0	0.24	0.24	0.24	0.71	0.95	1.19	1.42	1.42	1.66
67.5	0.24	0.24	0.47	0.95	0.95	1.42	1.19	1.42	1.42
90.0	0.00	0.47	0.24	0.71	0.71	0.95	1.19	1.42	1.19
112.5	0.00	0.00	0.24	0.47	0.95	0.71	1.19	1.19	1.19
135.0	0.00	0.00	0.24	0.47	0.47	0.95	0.95	1.19	1.19
157.5	0.00	0.00	0.24	0.47	0.47	0.95	1.19	1.19	1.19
180.0	0.00	0.24	0.00	0.47	0.95	0.95	1.19	1.19	1.19
202.5	0.00	0.00	0.00	0.47	0.71	0.95	1.19	1.42	1.19
225.0	0.00	0.00	0.00	0.47	0.71	0.95	1.19	1.19	1.42
247.5	0.00	0.00	0.00	0.24	0.47	0.95	0.95	1.42	1.42
270.0	0.47	0.71	0.71	1.19	1.19	1.42	1.66	1.66	1.66
292.5	0.47	0.24	0.47	0.71	0.95	1.19	1.19	1.42	1.66
315.0	0.24	0.00	0.47	0.47	0.95	0.95	1.42	1.19	1.42
337.5	0.00	0.24	0.24	0.47	0.71	1.19	1.42	1.42	1.19
360.0	0.00	0.00	0.24	0.71	0.71	1.42	1.19	1.19	1.42

C/γ(°)	180.0
0.0	1.47
22.5	1.47
45.0	1.47
67.5	1.47
90.0	1.47
112.5	1.47
135.0	1.47
157.5	1.47
180.0	1.47
202.5	1.47
225.0	1.47
247.5	1.47
270.0	1.47
292.5	1.47
315.0	1.47
337.5	1.47
360.0	1.47