



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LL6R-50K

Luminaire:

Report No:

Voltage(V): 120.05

Test No:

Current(A): 0.1414

LampCAT:

Power (W): 16.6930

Lamp flux(lm): 1139.0

PF: 0.9834

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1139.02

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 68.23

Central intensity(cd): 420.395

Maximum intensity(cd): 426.975

Angle of maximum intensity: C=180.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=107.2

[C90/270]Total=107.0

Field angle(10%Imax): [C0/180]Total=158.8

[C90/270]Total=158.9

Maximum s/h(1/2): C0_180=1.26 C90_270=1.20

Maximum s/h(1/4): C0_180=1.80 C90_270=1.32

Up flux rate of lamp(%): 0.65%

Down flux rate of lamp(%): 99.35%

Up flux rate of LUM(%): 0.65%

Down flux rate of LUM(%): 99.35%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 79.432%

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

Date:
Humidity(%): 58%

Operator: Zac

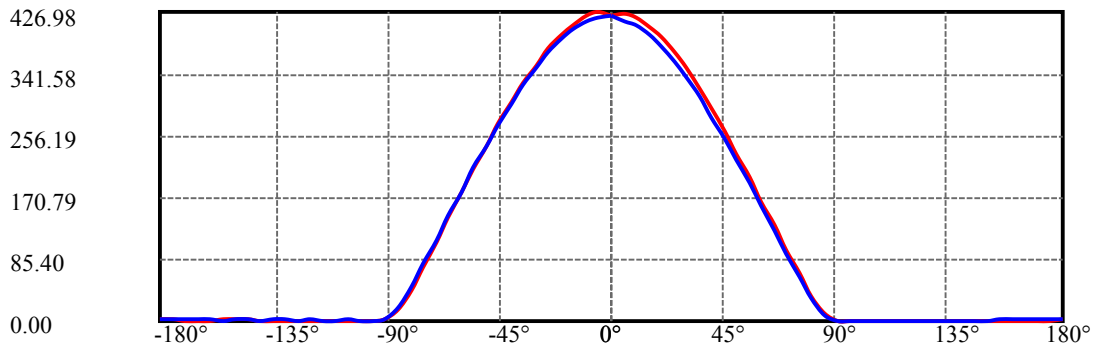
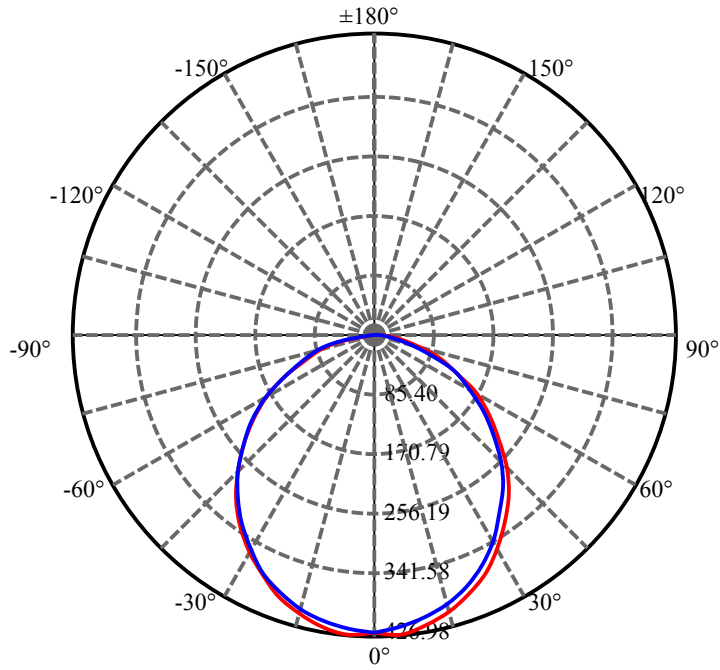
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	420.395	.000	.000	.000%	.000%
5.0	418.042	10.023	10.023	.880%	.880%
10.0	411.459	29.674	39.697	2.605%	3.485%
15.0	400.340	48.155	87.853	4.228%	7.713%
20.0	385.374	64.754	152.606	5.685%	13.398%
25.0	366.484	78.856	231.463	6.923%	20.321%
30.0	344.578	89.986	321.448	7.900%	28.221%
35.0	319.707	97.821	419.269	8.588%	36.810%
40.0	292.766	102.187	521.455	8.971%	45.781%
45.0	263.396	102.978	624.433	9.041%	54.822%
50.0	232.991	100.302	724.735	8.806%	63.628%
55.0	201.423	94.456	819.191	8.293%	71.921%
60.0	168.704	85.554	904.745	7.511%	79.432%
65.0	135.679	73.996	978.742	6.496%	85.928%
70.0	102.386	60.280	1039.021	5.292%	91.221%
75.0	69.744	44.992	1084.013	3.950%	95.171%
80.0	38.661	29.006	1113.019	2.547%	97.717%
85.0	13.982	14.304	1127.324	1.256%	98.973%
90.0	1.789	4.318	1131.642	.379%	99.352%
95.0	.958	.752	1132.394	.066%	99.418%
100.0	.997	.531	1132.925	.047%	99.465%
105.0	1.035	.544	1133.469	.048%	99.513%
110.0	.971	.524	1133.993	.046%	99.559%
115.0	1.112	.527	1134.521	.046%	99.605%
120.0	1.099	.537	1135.058	.047%	99.652%
125.0	1.176	.526	1135.584	.046%	99.698%
130.0	1.227	.522	1136.106	.046%	99.744%
135.0	1.227	.496	1136.602	.044%	99.788%
140.0	1.252	.459	1137.061	.040%	99.828%
145.0	1.291	.424	1137.485	.037%	99.865%
150.0	1.355	.390	1137.875	.034%	99.899%
155.0	1.354	.343	1138.218	.030%	99.930%
160.0	1.367	.285	1138.503	.025%	99.955%
165.0	1.329	.222	1138.725	.020%	99.974%
170.0	1.393	.161	1138.887	.014%	99.988%
175.0	1.418	.101	1138.987	.009%	99.997%
180.0	1.335	.033	1139.020	.003%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	321.45	28.22%	28.22%
0-40	521.46	45.78%	45.78%
0-60	904.75	79.43%	79.43%
0-90	1131.64	99.35%	99.35%
0-120	1135.06	99.65%	99.65%
0-180	1139.02	100.00%	100.00%
60-90	312.45	27.43%	27.43%
90-120	7.73	0.68%	0.68%
90-130	8.78	0.77%	0.77%
90-150	10.55	0.93%	0.93%
90-180	11.66	1.02%	1.02%
0-60.44	911.22	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	39.70
10-20	112.91
20-30	168.84
30-40	200.01
40-50	203.28
50-60	180.01
60-70	134.28
70-80	74.00
80-90	18.62
90-100	1.28
100-110	1.07
110-120	1.06
120-130	1.05
130-140	0.95
140-150	0.81
150-160	0.63
160-170	0.38
170-180	0.10



C0/C180: —

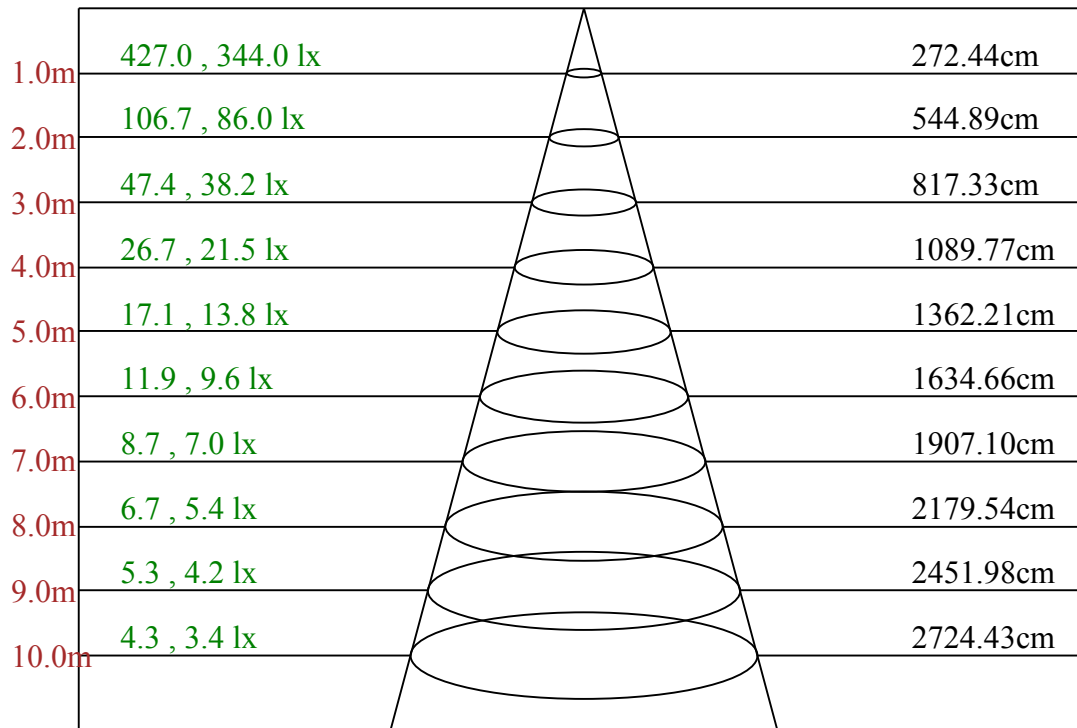
C90/C270: —

Field angle(10%Imax):C0/180Left:75.0 Right:83.7

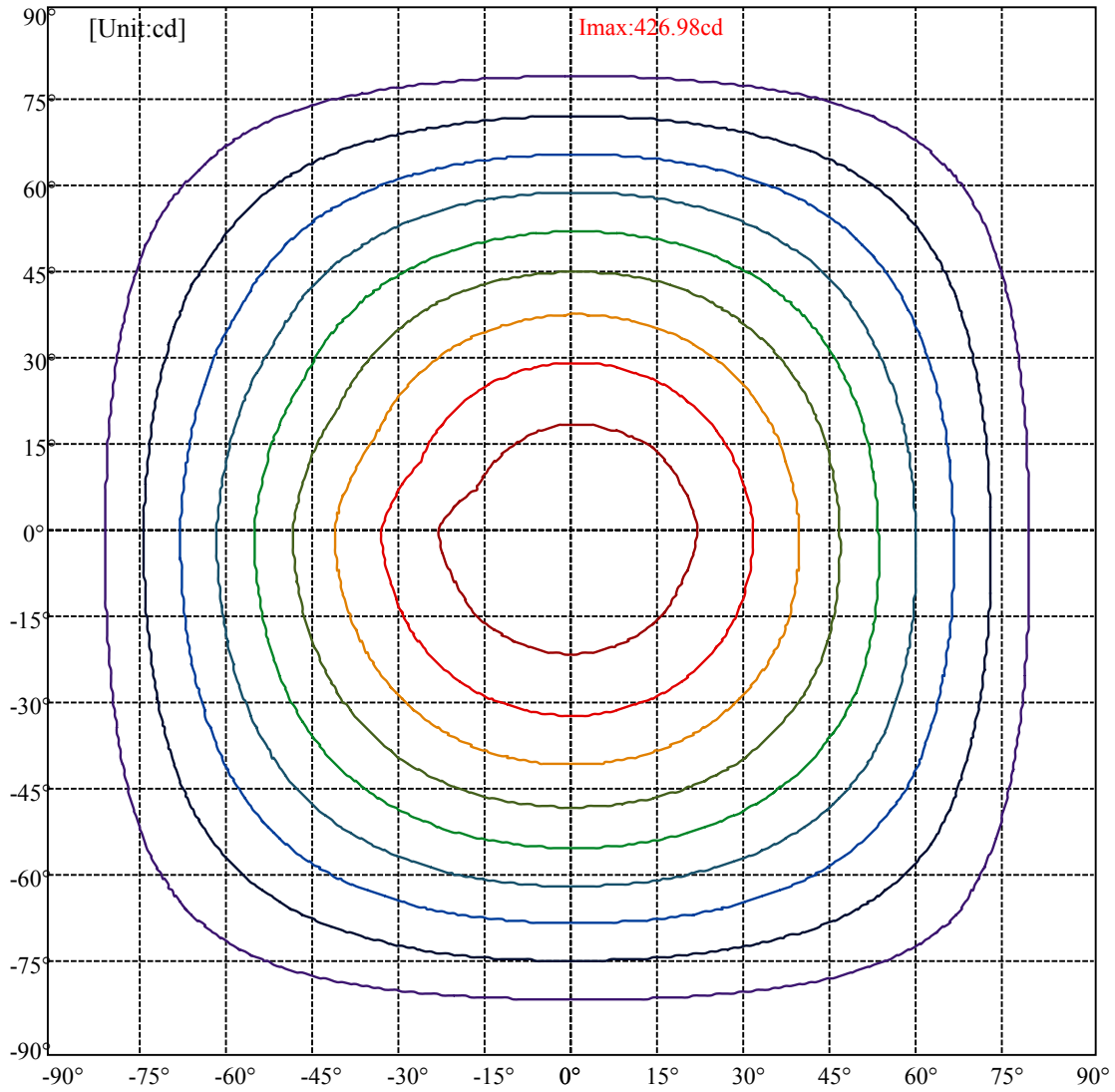
:C90/270Left:80.8 Right:78.1

Beam Angle(50%Imax):C0/180Left:49.4 Right:57.8

:C90/270Left:55.2 Right:51.8



Max , Ave Beam angle of C180plane107.41



(10%Imax)	42.6975	—
(20%Imax)	85.395	—
(30%Imax)	128.092	—
(40%Imax)	170.79	—
(50%Imax)	213.488	—
(60%Imax)	256.185	—
(70%Imax)	298.883	—
(80%Imax)	341.58	—
(90%Imax)	384.277	—

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	420.40	425.54	418.18	405.91	391.19	371.35	348.86	321.66	294.47
22.5	420.40	421.05	413.48	401.21	385.87	365.63	343.13	317.98	289.76
45.0	420.40	417.98	411.03	398.76	383.42	362.77	339.04	314.71	286.70
67.5	420.40	415.32	407.96	395.69	379.53	360.11	337.41	311.85	284.65
90.0	420.40	414.71	407.14	394.67	378.31	358.68	335.98	310.42	281.99
112.5	420.40	413.89	404.48	392.83	377.28	357.86	334.75	308.58	281.17
135.0	420.40	413.68	405.10	392.01	376.06	356.84	333.93	307.76	281.58
157.5	420.40	412.87	404.89	393.23	376.06	356.43	333.52	308.37	281.38
180.0	420.40	426.98	420.64	409.19	394.87	375.85	353.97	329.64	302.65
202.5	420.40	422.27	416.55	405.30	390.58	372.58	351.31	327.39	299.99
225.0	420.40	419.82	414.50	404.89	389.96	371.76	350.50	326.57	299.58
247.5	420.40	418.39	413.07	402.85	388.74	370.95	350.09	325.96	300.40
270.0	420.40	417.98	412.66	402.85	388.74	371.56	350.70	326.57	300.60
292.5	420.40	416.96	412.05	402.23	389.15	370.95	350.70	326.37	300.81
315.0	420.40	416.34	410.82	402.03	388.53	370.74	349.88	325.75	299.37
337.5	420.40	414.91	410.82	401.82	387.71	369.72	349.47	325.75	299.17
360.0	420.40	425.54	418.18	405.91	391.19	371.35	348.86	321.66	294.47
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	263.79	231.89	199.17	165.43	132.71	99.18	65.64	34.76	11.04
22.5	259.29	228.82	196.11	161.34	129.65	97.54	64.21	33.74	10.63
45.0	256.43	225.76	194.27	160.93	128.01	94.88	62.98	32.72	10.23
67.5	254.80	223.71	191.40	159.71	126.38	93.45	60.94	31.49	9.20
90.0	252.14	221.46	190.59	157.87	125.15	93.04	60.53	30.88	8.59
112.5	252.14	220.65	188.95	157.87	124.74	91.41	60.33	29.86	8.18
135.0	251.73	220.85	188.95	156.64	124.74	92.43	59.92	30.47	9.20
157.5	251.73	221.26	189.56	156.23	124.33	93.04	60.53	31.08	9.20
180.0	273.20	242.12	209.40	176.68	142.53	107.97	74.84	42.94	16.36
202.5	270.75	240.69	209.60	176.48	142.12	108.99	75.46	43.35	17.59
225.0	270.54	241.30	209.81	176.68	143.76	110.02	76.07	45.19	18.20
247.5	271.36	241.50	210.42	178.32	144.78	110.43	79.34	46.01	18.40
270.0	271.77	241.71	211.24	178.93	144.98	111.24	78.52	46.42	18.40
292.5	271.77	242.53	211.44	178.72	146.42	112.27	78.93	46.83	19.43
315.0	272.18	242.93	210.83	179.34	145.80	111.65	79.34	46.83	20.25
337.5	270.75	240.69	211.03	178.11	144.78	110.63	78.32	46.01	18.81
360.0	263.79	231.89	199.17	165.43	132.71	99.18	65.64	34.76	11.04
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.41	0.41	0.41	0.41	0.20	0.61	0.41	0.61	0.61
22.5	0.82	0.82	1.02	1.02	0.82	1.02	0.82	1.23	1.02
45.0	0.82	0.61	1.02	0.82	1.02	1.02	1.02	1.02	1.02
67.5	0.82	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.23
90.0	0.82	0.82	0.82	0.82	1.02	1.02	1.23	1.23	1.23
112.5	0.82	1.02	0.82	1.02	0.82	1.02	1.02	1.02	1.02
135.0	0.82	0.82	1.02	1.02	0.82	1.02	1.02	1.23	1.43
157.5	1.02	0.61	1.02	0.82	1.02	1.02	1.02	1.02	1.23
180.0	1.43	1.02	1.02	1.02	1.02	1.02	1.02	1.23	1.23
202.5	2.25	1.23	1.02	1.23	1.23	1.23	1.23	1.23	1.43
225.0	2.66	1.02	1.02	1.23	1.23	1.43	1.43	1.23	1.23
247.5	2.66	1.23	1.23	1.23	1.02	1.23	1.02	1.43	1.43
270.0	3.48	1.23	1.02	1.43	1.02	1.23	1.43	1.23	1.43
292.5	3.48	1.23	1.02	1.02	1.23	1.23	1.23	1.23	1.43
315.0	3.48	1.23	1.23	1.23	1.02	1.23	1.43	1.43	1.43
337.5	2.86	1.02	1.23	1.23	1.02	1.43	1.23	1.43	1.23
360.0	0.41	0.41	0.41	0.41	0.20	0.61	0.41	0.61	0.61

Intensity data(cd)

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C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.61	0.82	0.61	0.82	0.61	0.61	0.82	0.82	0.82
22.5	0.82	1.23	1.02	1.23	1.02	1.43	1.23	1.23	1.23
45.0	1.23	1.23	1.23	1.23	1.43	1.43	1.23	1.64	1.43
67.5	1.23	1.43	1.23	1.43	1.43	1.43	1.43	1.43	1.43
90.0	1.02	1.02	1.23	1.23	1.43	1.43	1.43	1.43	1.43
112.5	1.23	1.23	1.23	1.23	1.64	1.43	1.23	1.23	1.43
135.0	1.23	1.23	1.43	1.43	1.43	1.23	1.43	1.23	1.43
157.5	1.43	1.02	1.43	1.43	1.23	1.43	1.23	1.43	1.64
180.0	1.23	1.23	1.43	1.43	1.43	1.02	1.23	1.23	1.43
202.5	1.43	1.43	1.23	1.43	1.43	1.43	1.43	1.43	1.43
225.0	1.43	1.23	1.43	1.43	1.64	1.43	1.43	1.43	1.64
247.5	1.23	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
270.0	1.43	1.23	1.43	1.43	1.23	1.43	1.43	1.43	1.43
292.5	1.43	1.43	1.43	1.43	1.43	1.64	1.64	1.64	1.43
315.0	1.23	1.64	1.43	1.43	1.43	1.43	1.43	1.64	1.43
337.5	1.43	1.23	1.43	1.64	1.43	1.64	1.23	1.64	1.64
360.0	0.61	0.82	0.61	0.82	0.61	0.61	0.82	0.82	0.82
C/ γ (°)	180.0								
0.0	1.34								
22.5	1.34								
45.0	1.34								
67.5	1.34								
90.0	1.34								
112.5	1.34								
135.0	1.34								
157.5	1.34								
180.0	1.34								
202.5	1.34								
225.0	1.34								
247.5	1.34								
270.0	1.34								
292.5	1.34								
315.0	1.34								
337.5	1.34								
360.0	1.34								