



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LL6RR-27K

Luminaire:

Report No:

Voltage(V): 120.03

Test No:

Current(A): 0.1437

LampCAT:

Power (W): 16.9730

Lamp flux(lm): 1150.1

PF: 0.9838

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1150.11

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 67.76

Central intensity(cd): 457.656

Maximum intensity(cd): 457.656

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=105.0

[C90/270]Total=104.8

Field angle(10%Imax): [C0/180]Total=154.7

[C90/270]Total=154.9

Maximum s/h(1/2): C0_180=1.26 C90_270=1.22

Maximum s/h(1/4): C0_180=1.80 C90_270=1.33

Up flux rate of lamp(%): 0.18%

Down flux rate of lamp(%): 99.82%

Up flux rate of LUM(%): 0.18%

Down flux rate of LUM(%): 99.82%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 81.992%

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

Date:
Humidity(%): 58%

Operator: Zac

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	443.744	.000	.000	.000%	.000%
5.0	441.330	10.581	10.581	.920%	.920%
10.0	434.426	31.329	41.909	2.724%	3.644%
15.0	423.174	50.872	92.782	4.423%	8.067%
20.0	407.769	68.481	161.263	5.954%	14.022%
25.0	387.419	83.401	244.664	7.252%	21.273%
30.0	363.423	95.020	339.683	8.262%	29.535%
35.0	336.066	103.005	442.688	8.956%	38.491%
40.0	305.957	107.117	549.804	9.314%	47.805%
45.0	273.693	107.327	657.131	9.332%	57.136%
50.0	239.418	103.682	760.813	9.015%	66.151%
55.0	203.820	96.375	857.188	8.380%	74.531%
60.0	167.429	85.813	943.001	7.461%	81.992%
65.0	130.676	72.470	1015.471	6.301%	88.293%
70.0	94.207	56.942	1072.412	4.951%	93.244%
75.0	59.880	40.276	1112.689	3.502%	96.746%
80.0	28.123	23.547	1136.236	2.047%	98.794%
85.0	7.372	9.645	1145.881	.839%	99.632%
90.0	.325	2.107	1147.988	.183%	99.815%
95.0	.130	.124	1148.112	.011%	99.826%
100.0	.117	.067	1148.179	.006%	99.832%
105.0	.156	.073	1148.252	.006%	99.838%
110.0	.208	.095	1148.347	.008%	99.847%
115.0	.247	.115	1148.462	.010%	99.857%
120.0	.299	.133	1148.595	.012%	99.868%
125.0	.351	.150	1148.745	.013%	99.881%
130.0	.376	.158	1148.903	.014%	99.895%
135.0	.441	.165	1149.068	.014%	99.909%
140.0	.441	.163	1149.232	.014%	99.924%
145.0	.584	.171	1149.403	.015%	99.938%
150.0	.571	.170	1149.573	.015%	99.953%
155.0	.610	.149	1149.722	.013%	99.966%
160.0	.701	.137	1149.860	.012%	99.978%
165.0	.636	.110	1149.970	.010%	99.988%
170.0	.649	.076	1150.046	.007%	99.994%
175.0	.701	.048	1150.094	.004%	99.999%
180.0	.571	.015	1150.110	.001%	100.000%

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

Date:
Humidity(%): 58%

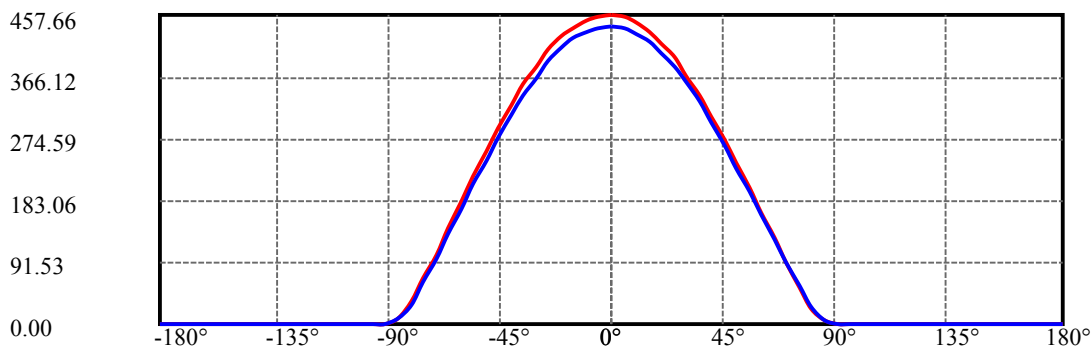
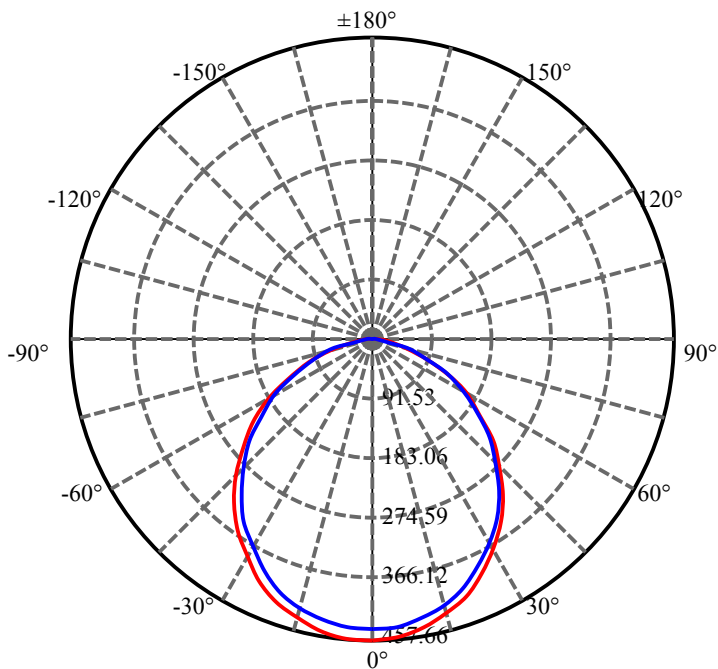
Operator: Zac

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	339.68	29.53%	29.53%
0-40	549.80	47.80%	47.80%
0-60	943.00	81.99%	81.99%
0-90	1147.99	99.82%	99.82%
0-120	1148.60	99.87%	99.87%
0-180	1150.11	100.00%	100.00%
60-90	290.80	25.28%	25.28%
90-120	2.71	0.24%	0.24%
90-130	3.02	0.26%	0.26%
90-150	3.69	0.32%	0.32%
90-180	4.21	0.37%	0.37%
0-58.66	920.09	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	41.91
10-20	119.35
20-30	178.42
30-40	210.12
40-50	211.01
50-60	182.19
60-70	129.41
70-80	63.82
80-90	11.75
90-100	0.19
100-110	0.17
110-120	0.25
120-130	0.31
130-140	0.33
140-150	0.34
150-160	0.29
160-170	0.19
170-180	0.05

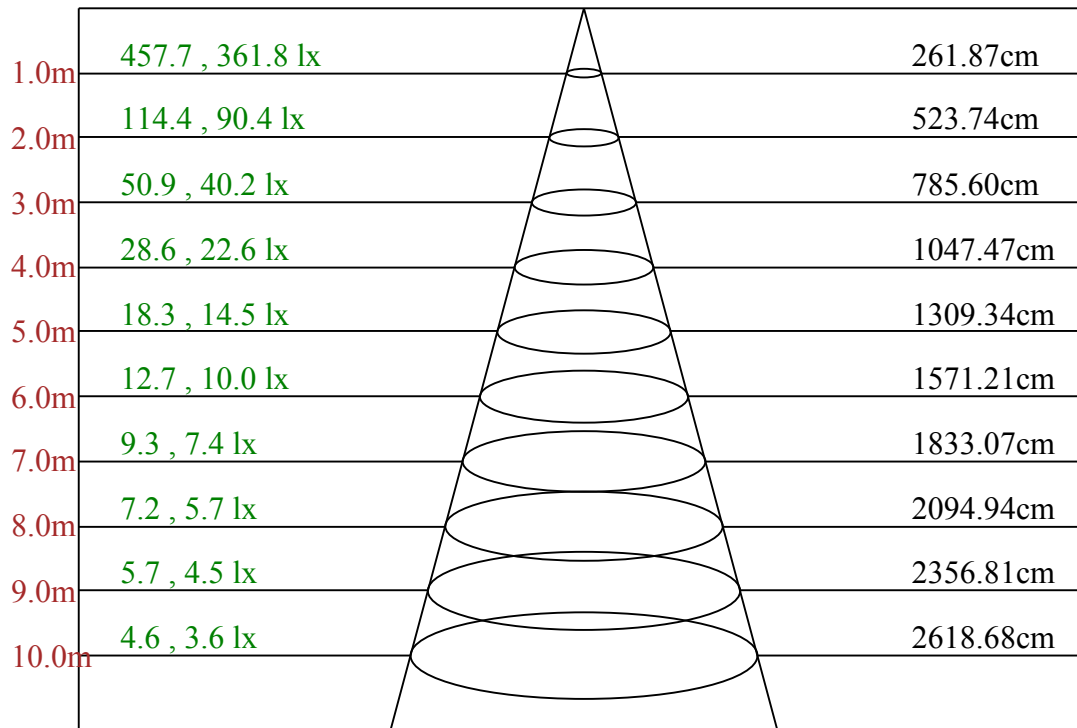


C0/C180: —

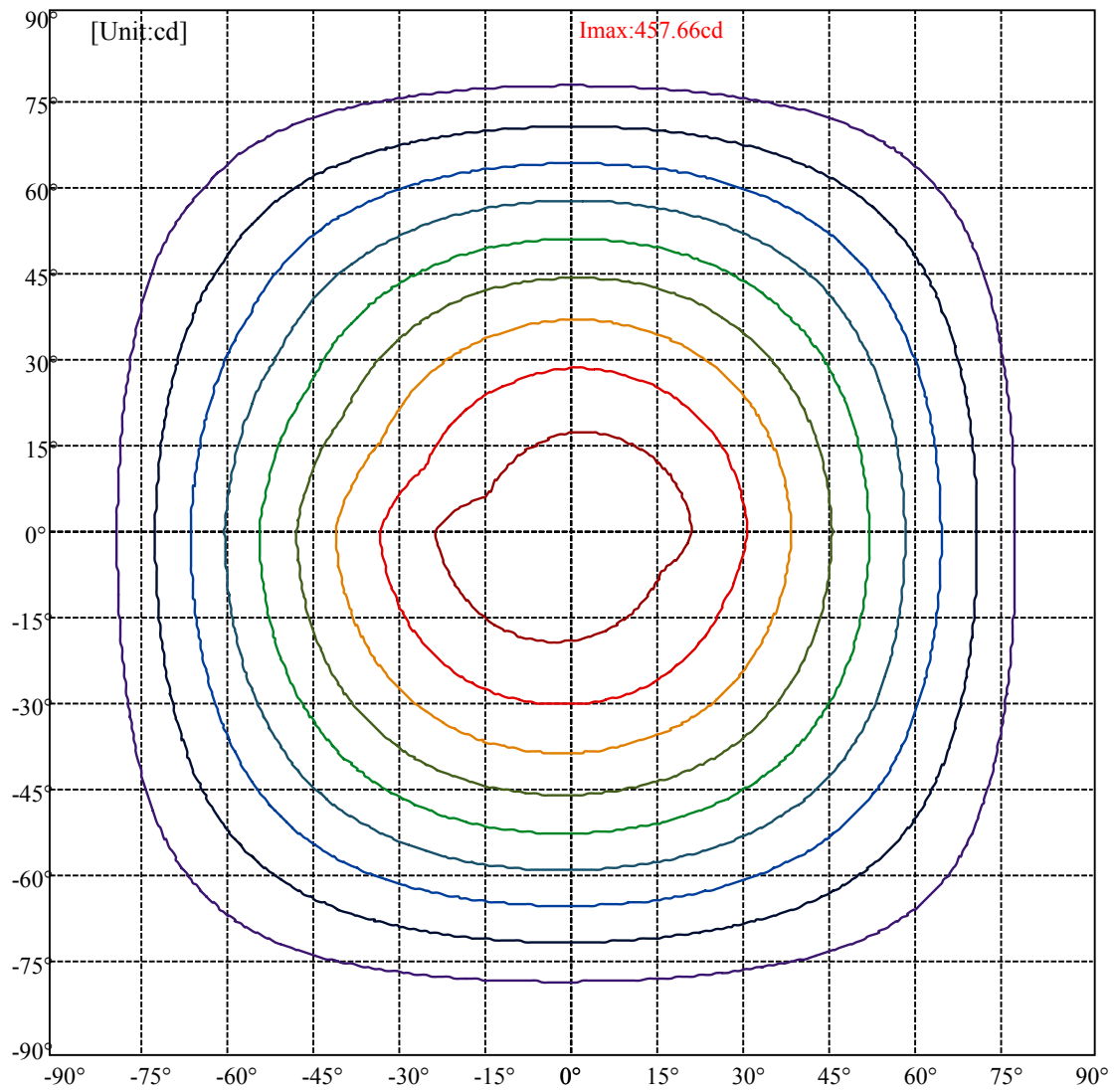
C90/C270: —

Field angle(10%Imax):C0/180Left:78.2 Right:76.4
 :C90/270Left:77.8 Right:77.1

Beam Angle(50%Imax):C0/180Left:53.7 Right:51.3
 :C90/270Left:53.2 Right:51.6



Max , Ave Beam angle of C0plane105.19



(10%Imax) 45.7365	—
(20%Imax) 91.4731	—
(30%Imax) 137.21	—
(40%Imax) 182.946	—
(50%Imax) 228.683	—
(60%Imax) 274.419	—
(70%Imax) 320.156	—
(80%Imax) 365.892	—
(90%Imax) 411.629	—

Intensity data(cd)

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C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	457.66	453.50	445.20	432.95	415.30	393.91	367.54	338.67	307.11
22.5	451.01	447.69	439.59	427.76	411.14	388.72	364.22	334.73	304.21
45.0	446.86	443.54	435.44	423.40	407.20	385.81	360.48	332.65	300.88
67.5	443.12	440.63	432.74	420.28	404.71	383.53	358.19	330.16	300.47
90.0	440.63	437.72	430.04	418.20	402.21	381.03	356.95	329.75	299.01
112.5	438.76	435.44	426.72	414.88	399.52	378.34	353.83	326.42	297.14
135.0	436.48	432.32	426.30	414.05	398.06	377.71	353.21	325.59	294.86
157.5	435.44	432.12	424.64	413.43	397.02	376.47	353.21	325.18	295.07
180.0	457.66	456.20	449.77	438.76	425.06	405.54	381.45	355.29	324.35
202.5	451.01	449.97	443.74	433.57	419.03	399.93	376.47	349.26	318.95
225.0	446.86	445.41	439.38	429.62	414.47	394.95	371.90	345.73	314.80
247.5	443.12	441.46	435.85	425.47	411.35	391.83	367.95	340.54	312.30
270.0	440.63	439.18	433.15	422.77	408.03	388.51	364.22	338.67	309.19
292.5	438.76	436.89	431.49	420.49	404.91	386.02	363.59	336.18	306.07
315.0	436.48	434.82	428.17	418.00	403.46	383.94	360.89	334.52	306.07
337.5	435.44	434.40	428.59	417.17	402.84	382.49	360.69	333.69	304.83
360.0	457.66	453.50	445.20	432.95	415.30	393.91	367.54	338.67	307.11
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	273.89	238.38	201.00	164.25	127.70	90.54	54.82	23.46	6.02
22.5	270.36	235.89	199.55	162.80	126.46	89.70	55.86	24.30	6.02
45.0	268.90	233.60	199.14	163.00	126.25	90.12	56.69	25.33	6.65
67.5	268.28	233.19	197.27	163.21	126.67	90.74	56.48	25.33	6.85
90.0	265.58	231.32	197.27	161.76	126.04	90.12	57.31	26.16	6.85
112.5	265.17	231.11	196.23	161.55	125.84	89.29	56.48	26.58	7.06
135.0	264.75	231.11	195.61	160.30	125.84	90.33	56.69	25.75	7.06
157.5	263.30	230.28	195.81	160.30	124.17	90.54	56.48	25.33	6.85
180.0	291.12	255.20	219.69	180.86	142.03	103.41	67.90	33.64	8.72
202.5	286.14	252.29	215.33	177.33	138.92	101.96	65.62	32.60	8.51
225.0	283.23	248.76	212.01	174.42	137.26	99.67	64.16	32.19	8.31
247.5	279.49	245.03	209.93	172.97	134.56	97.60	63.54	30.32	8.31
270.0	277.00	242.53	207.44	170.48	132.90	96.97	61.88	29.69	7.68
292.5	274.30	241.50	205.57	168.61	132.90	95.52	61.05	29.49	7.89
315.0	274.72	240.25	204.53	168.82	131.65	95.52	61.67	29.90	7.68
337.5	272.85	240.25	204.74	168.20	131.65	95.31	61.46	29.90	7.48
360.0	273.89	238.38	201.00	164.25	127.70	90.54	54.82	23.46	6.02
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	0.21
22.5	0.00	0.21	0.21	0.21	0.21	0.42	0.42	0.21	0.21
45.0	0.21	0.21	0.00	0.21	0.21	0.42	0.42	0.83	0.42
67.5	0.42	0.21	0.42	0.42	0.42	0.62	0.62	0.42	0.62
90.0	0.42	0.21	0.21	0.21	0.42	0.42	0.62	0.83	0.62
112.5	0.21	0.21	0.21	0.42	0.42	0.42	0.83	0.62	0.83
135.0	0.62	0.62	0.42	0.42	0.62	0.62	0.62	0.83	0.62
157.5	0.42	0.42	0.21	0.42	0.62	0.62	0.62	0.83	0.62
180.0	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
247.5	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
270.0	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21
292.5	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.42
315.0	0.42	0.00	0.00	0.21	0.21	0.21	0.21	0.21	0.42
337.5	0.21	0.00	0.21	0.00	0.21	0.21	0.42	0.42	0.42
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21

Equipment: GMS-3000
Temperature(°C): 25Date:
Humidity(%): 58%

Operator: Zac

Intensity data(cd)

C/\u03b3(\u00b0)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.21	0.00	0.21	0.00	0.42	0.21	0.21	0.21	0.00
22.5	0.21	0.42	0.42	0.62	0.62	0.62	0.62	0.62	0.62
45.0	0.83	0.62	1.04	0.83	0.83	0.62	0.62	0.62	0.83
67.5	0.62	0.62	0.42	0.62	0.42	0.83	0.62	0.62	0.83
90.0	0.42	0.62	0.83	0.62	0.62	0.83	0.83	0.62	0.62
112.5	0.62	0.62	0.62	0.83	0.83	1.04	0.62	1.04	1.04
135.0	0.83	0.83	0.83	0.83	0.83	0.83	1.04	0.83	1.04
157.5	0.83	0.83	0.83	0.83	1.04	1.04	0.83	0.83	1.04
180.0	0.00	0.00	0.21	0.21	0.21	0.42	0.42	0.42	0.42
202.5	0.00	0.21	0.42	0.42	0.42	0.42	0.42	0.42	0.62
225.0	0.42	0.00	0.62	0.42	0.42	0.83	0.62	0.62	0.83
247.5	0.42	0.42	0.21	0.42	0.62	0.62	0.83	0.42	0.62
270.0	0.42	0.62	0.62	0.62	0.62	0.83	0.62	0.62	0.62
292.5	0.21	0.42	0.62	0.62	0.62	0.83	0.62	0.62	0.62
315.0	0.42	0.42	0.83	0.62	0.83	0.62	0.62	1.04	0.62
337.5	0.62	0.42	0.62	0.62	0.42	0.62	0.62	0.83	0.83
360.0	0.21	0.00	0.21	0.00	0.42	0.21	0.21	0.21	0.00

C/\u03b3(\u00b0)	180.0
0.0	0.00
22.5	0.42
45.0	0.62
67.5	0.62
90.0	0.83
112.5	0.83
135.0	0.62
157.5	0.62
180.0	0.00
202.5	0.42
225.0	0.62
247.5	0.62
270.0	0.83
292.5	0.83
315.0	0.62
337.5	0.62
360.0	0.00