



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LL6RR-40K

Luminaire:

Report No:

Voltage(V): 120.03

Test No:

Current(A): 0.1437

LampCAT:

Power (W): 16.9730

Lamp flux(lm): 1301.7

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): 1301.65

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 76.69

Central intensity(cd): 517.960

Maximum intensity(cd): 517.960

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	502.214	.000	.000	.000%	.000%
5.0	499.482	11.975	11.975	.920%	.920%
10.0	491.668	35.457	47.432	2.724%	3.644%
15.0	478.934	57.575	105.007	4.423%	8.067%
20.0	461.499	77.505	182.512	5.954%	14.022%
25.0	438.468	94.390	276.902	7.252%	21.273%
30.0	411.310	107.540	384.442	8.262%	29.535%
35.0	380.347	116.577	501.019	8.956%	38.491%
40.0	346.271	121.231	622.250	9.314%	47.805%
45.0	309.757	121.469	743.718	9.332%	57.137%
50.0	270.965	117.343	861.062	9.015%	66.152%
55.0	230.676	109.074	970.135	8.380%	74.531%
60.0	189.491	97.120	1067.255	7.461%	81.993%
65.0	147.894	82.019	1149.274	6.301%	88.294%
70.0	106.621	64.445	1213.719	4.951%	93.245%
75.0	67.771	45.583	1259.302	3.502%	96.747%
80.0	31.829	26.650	1285.952	2.047%	98.794%
85.0	8.343	10.916	1296.867	.839%	99.633%
90.0	.367	2.385	1299.252	.183%	99.816%
95.0	.147	.141	1299.393	.011%	99.827%
100.0	.132	.076	1299.469	.006%	99.832%
105.0	.176	.083	1299.551	.006%	99.839%
110.0	.235	.107	1299.659	.008%	99.847%
115.0	.279	.130	1299.789	.010%	99.857%
120.0	.338	.150	1299.939	.012%	99.869%
125.0	.397	.170	1300.109	.013%	99.882%
130.0	.426	.179	1300.288	.014%	99.895%
135.0	.499	.187	1300.475	.014%	99.910%
140.0	.499	.185	1300.660	.014%	99.924%
145.0	.661	.194	1300.853	.015%	99.939%
150.0	.646	.192	1301.046	.015%	99.954%
155.0	.690	.169	1301.215	.013%	99.967%
160.0	.793	.156	1301.370	.012%	99.979%
165.0	.720	.125	1301.495	.010%	99.988%
170.0	.734	.086	1301.581	.007%	99.995%
175.0	.793	.055	1301.636	.004%	99.999%
180.0	.646	.017	1301.653	.001%	100.000%

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

Date:
Humidity(%): 58%

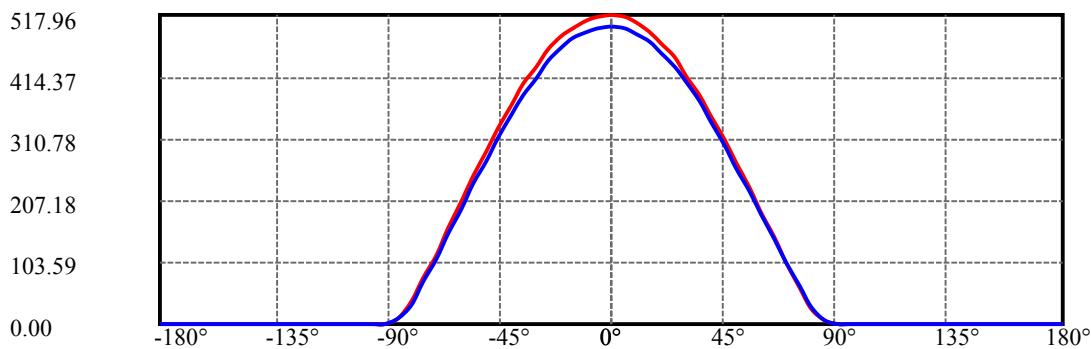
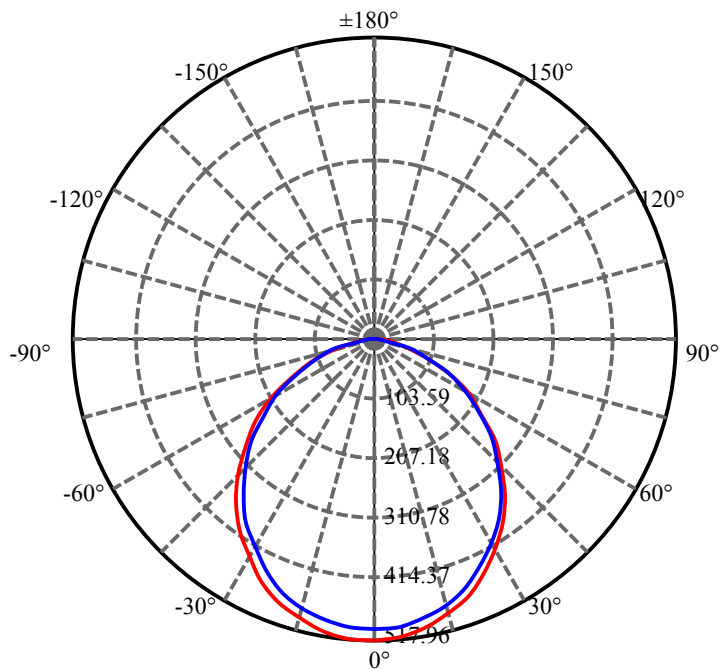
Operator: Zac

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	384.44	29.53%	29.53%
0-40	622.25	47.80%	47.80%
0-60	1067.26	81.99%	81.99%
0-90	1299.25	99.82%	99.82%
0-120	1299.94	99.87%	99.87%
0-180	1301.65	100.00%	100.00%
60-90	329.12	25.28%	25.28%
90-120	3.07	0.24%	0.24%
90-130	3.42	0.26%	0.26%
90-150	4.18	0.32%	0.32%
90-180	4.77	0.37%	0.37%
0-58.66	1041.32	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	47.43
10-20	135.08
20-30	201.93
30-40	237.81
40-50	238.81
50-60	206.19
60-70	146.46
70-80	72.23
80-90	13.30
90-100	0.22
100-110	0.19
110-120	0.28
120-130	0.35
130-140	0.37
140-150	0.39
150-160	0.32
160-170	0.21
170-180	0.05

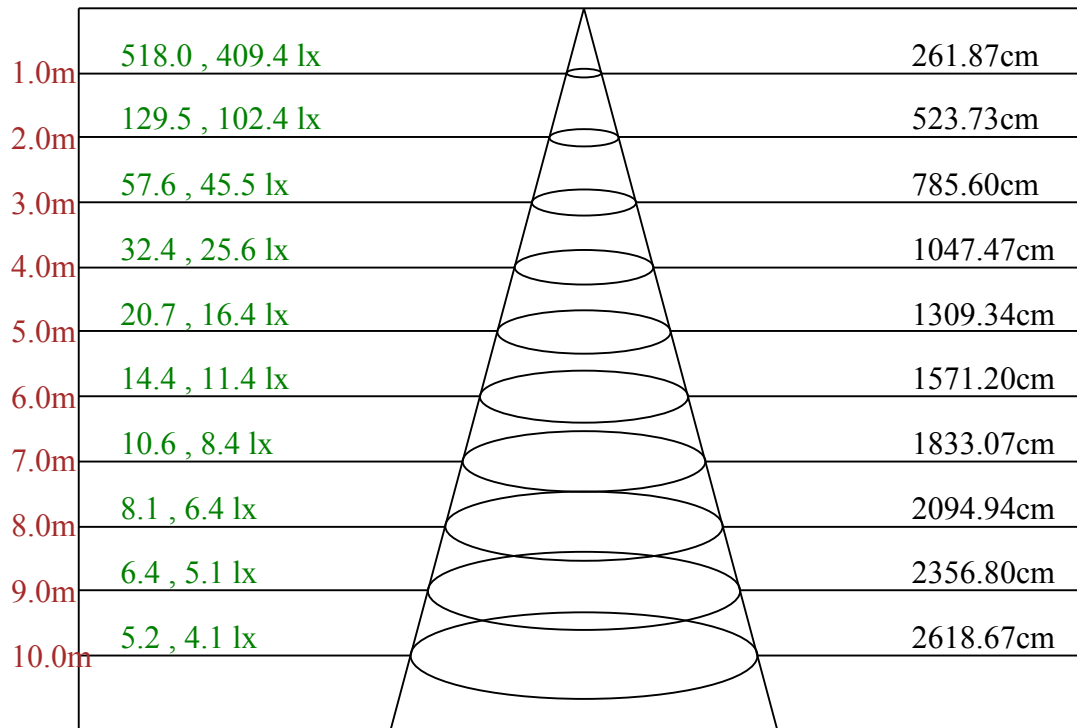


C0/C180: —

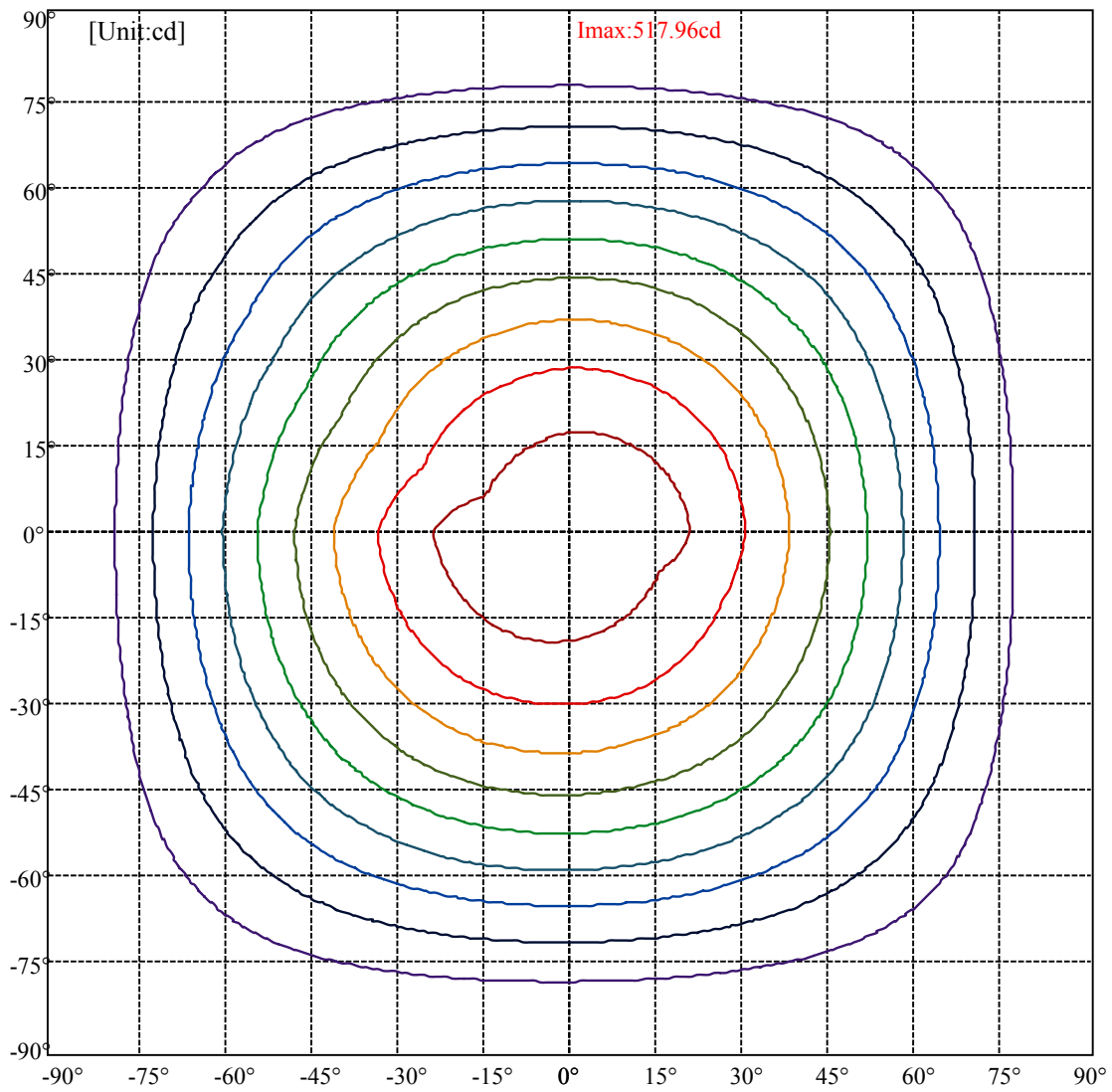
C90/C270: —

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) 51.7631	—
(20%Imax) 103.526	—
(30%Imax) 155.289	—
(40%Imax) 207.052	—
(50%Imax) 258.816	—
(60%Imax) 310.579	—
(70%Imax) 362.342	—
(80%Imax) 414.105	—
(90%Imax) 465.868	—

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	517.96	513.26	503.86	489.99	470.02	445.81	415.97	383.30	347.58
22.5	510.44	506.68	497.51	484.12	465.32	439.94	412.21	378.83	344.29
45.0	505.74	501.98	492.81	479.18	460.85	436.65	407.98	376.48	340.53
67.5	501.51	498.69	489.76	475.66	458.03	434.06	405.39	373.66	340.06
90.0	498.69	495.40	486.70	473.31	455.21	431.24	403.98	373.19	338.41
112.5	496.57	492.81	482.94	469.55	452.16	428.19	400.46	369.43	336.30
135.0	493.99	489.29	482.47	468.61	450.51	427.48	399.75	368.49	333.71
157.5	492.81	489.05	480.59	467.90	449.34	426.07	399.75	368.02	333.95
180.0	517.96	516.32	509.03	496.57	481.06	458.97	431.71	402.10	367.08
202.5	510.44	509.26	502.21	490.70	474.25	452.63	426.07	395.29	360.97
225.0	505.74	504.09	497.28	486.23	469.08	446.99	420.90	391.29	356.27
247.5	501.51	499.63	493.28	481.53	465.55	443.46	416.44	385.42	353.45
270.0	498.69	497.04	490.23	478.48	461.79	439.70	412.21	383.30	349.93
292.5	496.57	494.46	488.35	475.89	458.27	436.88	411.50	380.48	346.40
315.0	493.99	492.11	484.59	473.07	456.62	434.53	408.45	378.60	346.40
337.5	492.81	491.64	485.06	472.13	455.92	432.89	408.21	377.66	344.99
360.0	517.96	513.26	503.86	489.99	470.02	445.81	415.97	383.30	347.58
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	309.98	269.79	227.49	185.89	144.53	102.46	62.04	26.56	6.82
22.5	305.98	266.97	225.84	184.25	143.12	101.52	63.22	27.50	6.82
45.0	304.34	264.39	225.37	184.48	142.89	101.99	64.16	28.67	7.52
67.5	303.63	263.92	223.26	184.72	143.36	102.70	63.92	28.67	7.76
90.0	300.58	261.80	223.26	183.07	142.65	101.99	64.86	29.61	7.76
112.5	300.11	261.57	222.08	182.84	142.42	101.05	63.92	30.08	7.99
135.0	299.64	261.57	221.38	181.43	142.42	102.23	64.16	29.14	7.99
157.5	297.99	260.63	221.61	181.43	140.54	102.46	63.92	28.67	7.76
180.0	329.48	288.83	248.64	204.69	160.75	117.03	76.85	38.07	9.87
202.5	323.84	285.54	243.70	200.70	157.22	115.39	74.26	36.90	9.64
225.0	320.55	281.54	239.94	197.41	155.34	112.80	72.62	36.43	9.40
247.5	316.32	277.31	237.59	195.76	152.29	110.45	71.91	34.31	9.40
270.0	313.50	274.49	234.77	192.94	150.41	109.75	70.03	33.61	8.70
292.5	310.45	273.32	232.66	190.83	150.41	108.10	69.09	33.37	8.93
315.0	310.92	271.91	231.48	191.06	149.00	108.10	69.80	33.84	8.70
337.5	308.80	271.91	231.72	190.36	149.00	107.87	69.56	33.84	8.46
360.0	309.98	269.79	227.49	185.89	144.53	102.46	62.04	26.56	6.82
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	0.24
22.5	0.00	0.24	0.24	0.24	0.24	0.47	0.47	0.24	0.24
45.0	0.24	0.24	0.00	0.24	0.24	0.47	0.47	0.94	0.47
67.5	0.47	0.24	0.47	0.47	0.47	0.71	0.71	0.47	0.71
90.0	0.47	0.24	0.24	0.24	0.47	0.47	0.71	0.94	0.71
112.5	0.24	0.24	0.24	0.47	0.47	0.47	0.94	0.71	0.94
135.0	0.71	0.71	0.47	0.47	0.71	0.71	0.71	0.94	0.71
157.5	0.47	0.47	0.24	0.47	0.71	0.71	0.71	0.94	0.71
180.0	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
247.5	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
270.0	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.24
292.5	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.47
315.0	0.47	0.00	0.00	0.24	0.24	0.24	0.24	0.24	0.47
337.5	0.24	0.00	0.24	0.00	0.24	0.24	0.47	0.47	0.47
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24

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

Operator: Zac

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	0.24	0.00	0.24	0.00	0.47	0.24	0.24	0.24	0.00
22.5	0.24	0.47	0.47	0.71	0.71	0.71	0.71	0.71	0.71
45.0	0.94	0.71	1.18	0.94	0.94	0.71	0.71	0.71	0.94
67.5	0.71	0.71	0.47	0.71	0.47	0.94	0.71	0.71	0.94
90.0	0.47	0.71	0.94	0.71	0.71	0.94	0.94	0.71	0.71
112.5	0.71	0.71	0.71	0.94	0.94	1.18	0.71	1.18	1.18
135.0	0.94	0.94	0.94	0.94	0.94	0.94	1.18	0.94	1.18
157.5	0.94	0.94	0.94	0.94	1.18	1.18	0.94	0.94	1.18
180.0	0.00	0.00	0.24	0.24	0.24	0.47	0.47	0.47	0.47
202.5	0.00	0.24	0.47	0.47	0.47	0.47	0.47	0.47	0.71
225.0	0.47	0.00	0.71	0.47	0.47	0.94	0.71	0.71	0.94
247.5	0.47	0.47	0.24	0.47	0.71	0.71	0.94	0.47	0.71
270.0	0.47	0.71	0.71	0.71	0.71	0.94	0.71	0.71	0.71
292.5	0.24	0.47	0.71	0.71	0.71	0.94	0.71	0.71	0.71
315.0	0.47	0.47	0.94	0.71	0.94	0.71	0.71	1.18	0.71
337.5	0.71	0.47	0.71	0.71	0.47	0.71	0.71	0.94	0.94
360.0	0.24	0.00	0.24	0.00	0.47	0.24	0.24	0.24	0.00
C/γ(°)	180.0								
0.0	0.00								
22.5	0.47								
45.0	0.71								
67.5	0.71								
90.0	0.94								
112.5	0.94								
135.0	0.71								
157.5	0.71								
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360.0	0.00								