



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LL10R-30K

Luminaire:

Report No:

Voltage(V): 120.06

Test No:

Current(A): 0.4316

LampCAT:

Power (W): 49.8600

Lamp flux(lm): 6304.0

PF: 0.9622

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 6303.96

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 126.43

Central intensity(cd): 5702.949

Maximum intensity(cd): 5702.949

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=65.6

[C90/270]Total=65.4

Field angle(10%Imax): [C0/180]Total=94.3

[C90/270]Total=94.0

Maximum s/h(1/2): C0_180=1.04 C90_270=1.02

Maximum s/h(1/4): C0_180=1.48 C90_270=0.98

Up flux rate of lamp(%): 0.19%

Down flux rate of lamp(%): 99.81%

Up flux rate of LUM(%): 0.19%

Down flux rate of LUM(%): 99.81%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.277%

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	5658.146	.000	.000	.000%	.000%
5.0	5595.235	134.531	134.531	2.134%	2.134%
10.0	5423.537	394.176	528.707	6.253%	8.387%
15.0	5127.358	625.872	1154.579	9.928%	18.315%
20.0	4721.855	811.714	1966.293	12.876%	31.191%
25.0	4188.385	934.520	2900.813	14.824%	46.016%
30.0	3437.756	965.095	3865.907	15.309%	61.325%
35.0	2319.318	847.769	4713.676	13.448%	74.773%
40.0	1245.495	594.762	5308.438	9.435%	84.208%
45.0	678.449	356.234	5664.672	5.651%	89.859%
50.0	412.759	220.495	5885.167	3.498%	93.357%
55.0	265.434	147.462	6032.628	2.339%	95.696%
60.0	165.716	99.659	6132.288	1.581%	97.277%
65.0	99.893	64.570	6196.857	1.024%	98.301%
70.0	60.685	40.659	6237.517	.645%	98.946%
75.0	37.237	25.595	6263.112	.406%	99.352%
80.0	22.951	16.105	6279.216	.255%	99.607%
85.0	10.986	9.222	6288.438	.146%	99.754%
90.0	.979	3.276	6291.714	.052%	99.806%
95.0	.644	.444	6292.158	.007%	99.813%
100.0	.711	.368	6292.526	.006%	99.819%
105.0	.697	.377	6292.903	.006%	99.825%
110.0	.765	.382	6293.286	.006%	99.831%
115.0	.898	.421	6293.707	.007%	99.837%
120.0	1.154	.499	6294.206	.008%	99.845%
125.0	1.435	.598	6294.804	.009%	99.855%
130.0	1.865	.718	6295.521	.011%	99.866%
135.0	2.320	.846	6296.367	.013%	99.880%
140.0	2.911	.969	6297.336	.015%	99.895%
145.0	3.515	1.072	6298.408	.017%	99.912%
150.0	4.145	1.128	6299.536	.018%	99.930%
155.0	4.923	1.148	6300.683	.018%	99.948%
160.0	5.446	1.088	6301.771	.017%	99.965%
165.0	5.714	.920	6302.690	.015%	99.980%
170.0	5.902	.689	6303.379	.011%	99.991%
175.0	6.009	.426	6303.806	.007%	99.998%
180.0	6.305	.147	6303.953	.002%	100.000%

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

Date:
Humidity(%): 58%

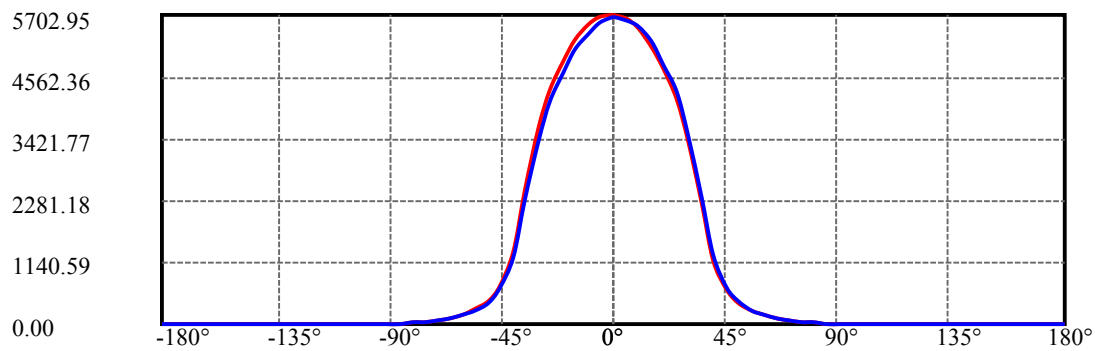
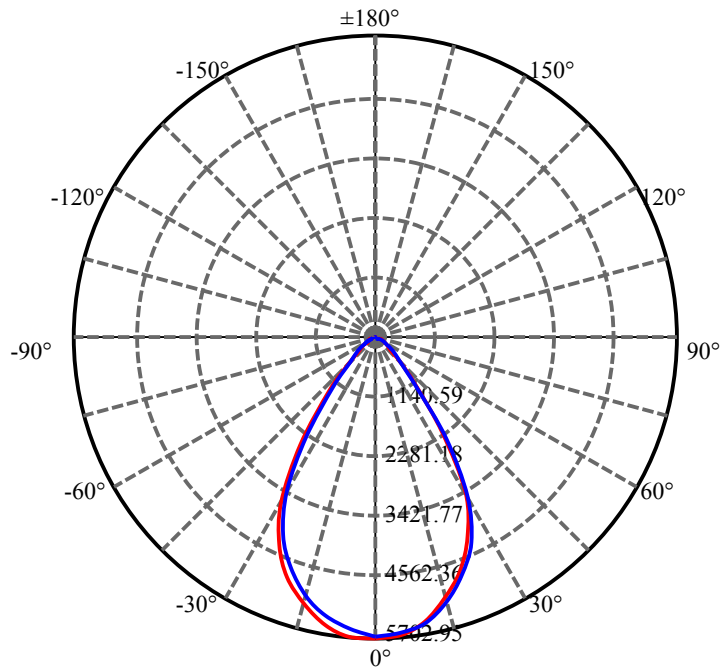
Operator: Zac

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3865.91	61.33%	61.33%
0-40	5308.44	84.21%	84.21%
0-60	6132.29	97.28%	97.28%
0-90	6291.71	99.81%	99.81%
0-120	6294.21	99.85%	99.85%
0-180	6303.95	100.00%	100.00%
60-90	259.09	4.11%	4.11%
90-120	5.77	0.09%	0.09%
90-130	7.08	0.11%	0.11%
90-150	11.10	0.18%	0.18%
90-180	15.37	0.24%	0.24%
0-37.77	5043.16	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	528.71
10-20	1437.59
20-30	1899.61
30-40	1442.53
40-50	576.73
50-60	247.12
60-70	105.23
70-80	41.70
80-90	12.50
90-100	0.81
100-110	0.76
110-120	0.92
120-130	1.32
130-140	1.81
140-150	2.20
150-160	2.24
160-170	1.61
170-180	0.43

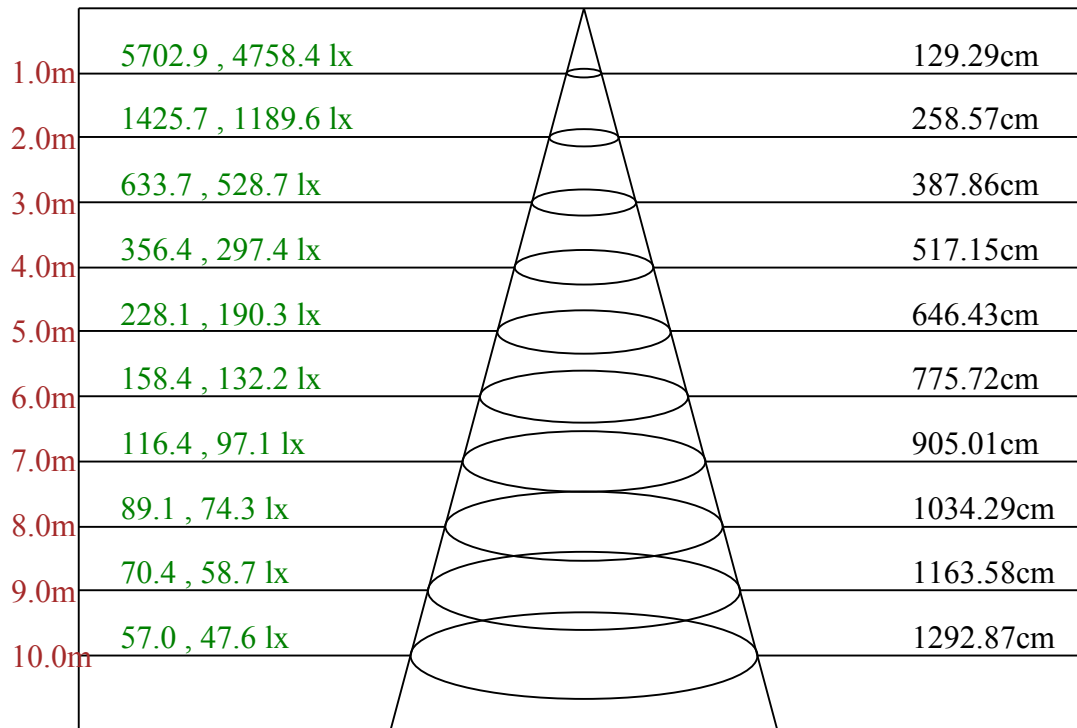


C0/C180: —

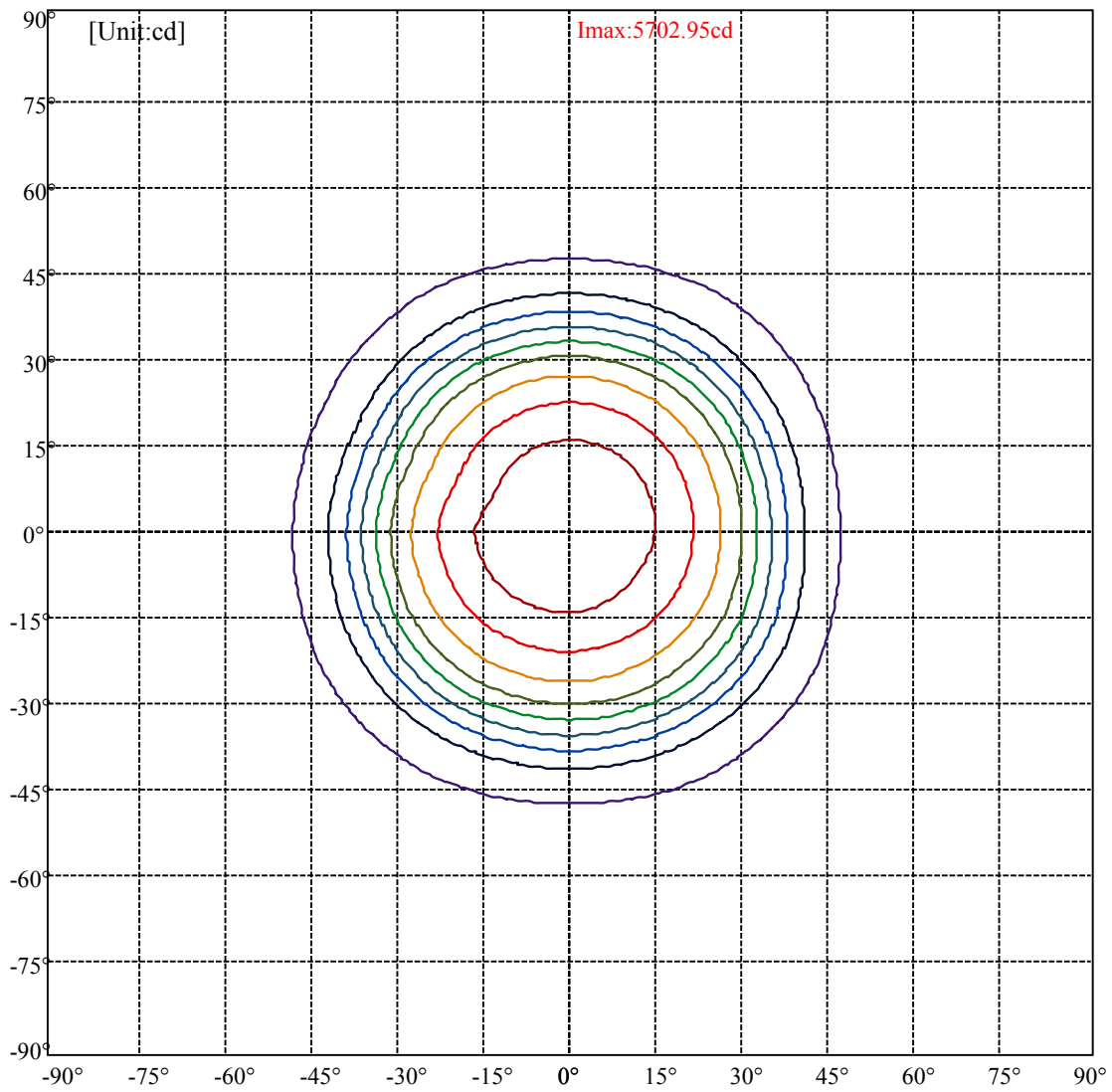
C90/C270: —

Field angle(10%Imax):C0/180Left:47.7 Right:46.6
 :C90/270Left:47.0 Right:47.1

Beam Angle(50%Imax):C0/180Left:33.3 Right:32.3
 :C90/270Left:32.5 Right:32.9



Max , Ave Beam angle of C0plane65.75



(10%Imax) 569.737	—
(20%Imax) 1139.47	—
(30%Imax) 1709.21	—
(40%Imax) 2278.95	—
(50%Imax) 2848.68	—
(60%Imax) 3418.42	—
(70%Imax) 3988.16	—
(80%Imax) 4557.9	—
(90%Imax) 5127.63	—

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	5702.95	5636.42	5451.84	5112.74	4702.81	4159.17	3380.09	2229.93	1186.22
22.5	5692.22	5634.27	5445.40	5142.78	4739.29	4191.58	3395.97	2247.53	1227.00
45.0	5675.05	5610.66	5466.86	5177.12	4760.76	4214.54	3456.28	2306.33	1231.93
67.5	5662.17	5619.25	5477.60	5187.86	4805.83	4266.27	3459.72	2354.41	1251.25
90.0	5653.59	5606.37	5479.74	5190.00	4799.39	4269.70	3488.90	2335.95	1260.26
112.5	5638.56	5597.78	5447.55	5179.27	4771.49	4264.55	3462.50	2310.20	1242.66
135.0	5634.27	5574.18	5402.48	5134.20	4745.73	4188.14	3429.88	2283.80	1196.09
157.5	5606.37	5561.30	5387.45	5082.69	4687.78	4153.80	3374.08	2204.39	1153.81
180.0	5702.95	5675.05	5535.54	5230.78	4846.61	4316.49	3595.36	2479.32	1333.24
202.5	5692.22	5636.42	5473.30	5168.54	4769.34	4243.52	3541.70	2391.32	1307.48
225.0	5675.05	5608.52	5404.62	5125.61	4715.69	4164.11	3423.66	2350.55	1264.56
247.5	5662.17	5576.32	5387.45	5076.25	4636.28	4131.91	3391.46	2281.87	1225.92
270.0	5653.59	5554.86	5365.99	5063.37	4625.54	4110.45	3365.71	2294.74	1234.51
292.5	5638.56	5546.27	5355.26	5048.35	4616.96	4091.13	3408.63	2290.45	1232.36
315.0	5634.27	5541.98	5335.94	5052.64	4644.86	4095.43	3391.46	2350.55	1268.85
337.5	5606.37	5544.13	5359.55	5065.52	4681.35	4153.37	3438.68	2397.76	1311.77
360.0	5702.95	5636.42	5451.84	5112.74	4702.81	4159.17	3380.09	2229.93	1186.22
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	650.74	402.63	257.98	161.61	100.23	62.88	36.70	21.46	9.87
22.5	669.41	407.57	262.05	159.68	92.72	56.45	34.77	21.68	9.66
45.0	683.57	415.51	264.20	160.97	94.86	55.59	34.34	20.82	9.66
67.5	679.28	413.36	269.57	168.26	99.80	59.02	34.98	20.60	9.23
90.0	675.63	410.57	265.06	161.83	91.22	54.30	33.91	21.03	9.01
112.5	673.92	404.56	263.77	165.90	102.16	60.52	33.91	20.18	9.23
135.0	652.45	397.91	257.12	158.82	93.79	57.09	34.77	21.46	9.44
157.5	643.01	392.55	249.18	151.74	90.79	55.59	35.20	21.68	9.87
180.0	717.27	441.05	284.59	182.64	114.39	69.75	40.78	23.82	12.02
202.5	709.11	434.40	275.15	175.13	104.95	62.46	39.28	24.68	12.02
225.0	686.15	417.23	271.50	170.63	102.59	62.24	39.06	24.47	12.23
247.5	678.21	412.08	263.77	169.55	104.52	64.39	39.92	24.90	12.45
270.0	668.33	405.21	262.05	162.68	97.87	60.52	38.85	25.11	13.09
292.5	679.07	416.15	264.63	169.12	107.10	65.89	39.92	24.68	12.88
315.0	684.43	412.29	266.99	167.41	101.73	63.10	39.71	24.90	12.66
337.5	704.61	421.09	269.35	165.47	99.59	61.17	39.71	25.76	12.45
360.0	650.74	402.63	257.98	161.61	100.23	62.88	36.70	21.46	9.87
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.22	0.22	0.43	0.22	0.43	0.43	1.07	0.86	1.50
22.5	0.64	0.86	0.64	0.86	0.86	1.07	1.07	1.50	1.93
45.0	0.86	0.64	0.64	0.86	0.86	1.07	1.29	1.72	1.93
67.5	0.86	0.86	0.86	0.86	1.07	0.86	1.50	1.72	2.15
90.0	0.86	0.64	0.86	0.64	0.64	1.07	1.29	1.50	1.93
112.5	0.86	0.64	0.86	0.86	0.86	1.29	1.29	1.72	2.15
135.0	0.86	0.86	0.86	0.64	1.07	1.07	1.50	1.93	1.93
157.5	0.86	0.86	0.86	0.86	1.07	0.86	1.29	1.72	2.15
180.0	0.64	0.22	0.64	0.64	0.64	0.64	0.86	1.07	1.50
202.5	0.86	0.64	0.64	0.64	0.64	0.86	1.07	1.29	1.72
225.0	1.07	0.64	0.43	0.86	0.64	0.86	1.07	1.29	1.93
247.5	1.07	0.64	0.64	0.64	0.86	0.86	1.07	1.29	1.72
270.0	1.72	0.64	0.86	0.86	0.64	0.64	1.07	1.50	1.93
292.5	1.29	0.64	0.86	0.64	0.64	0.86	1.07	1.29	1.93
315.0	1.50	0.64	0.64	0.64	0.64	0.86	0.86	1.29	1.72
337.5	1.50	0.64	0.64	0.43	0.64	1.07	1.07	1.29	1.72
360.0	0.22	0.22	0.43	0.22	0.43	0.43	1.07	0.86	1.50

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	1.93	2.58	3.22	3.86	4.72	5.15	5.37	5.37	5.58
22.5	2.58	3.01	3.43	4.29	5.15	5.58	6.01	5.80	6.01
45.0	2.36	3.01	3.65	4.29	5.15	5.58	5.80	6.01	6.01
67.5	2.58	3.22	3.65	4.08	4.94	5.37	5.80	6.01	6.01
90.0	2.58	3.22	3.65	4.29	4.94	5.37	5.58	6.01	6.22
112.5	2.58	3.22	3.86	4.51	4.94	5.37	5.58	6.01	6.44
135.0	2.58	3.22	3.65	4.29	5.15	5.80	5.80	6.01	6.22
157.5	2.58	3.22	3.65	4.51	5.15	5.58	6.01	6.01	6.01
180.0	1.93	2.36	3.22	3.86	4.72	5.15	5.80	5.58	5.58
202.5	2.36	2.58	3.43	4.08	4.94	5.80	5.80	6.01	6.01
225.0	2.36	2.79	3.43	4.08	4.94	5.37	5.80	5.80	6.01
247.5	2.15	3.01	3.65	3.86	4.72	5.37	5.58	5.80	6.01
270.0	2.15	2.79	3.43	4.08	4.72	5.58	5.80	5.80	6.01
292.5	2.15	2.79	3.43	4.08	4.72	5.15	5.58	6.01	5.80
315.0	2.15	2.79	3.43	4.08	4.94	5.58	5.58	6.01	6.22
337.5	2.15	2.79	3.43	4.08	4.94	5.37	5.58	6.22	6.01
360.0	1.93	2.58	3.22	3.86	4.72	5.15	5.37	5.37	5.58

C/γ(°)	180.0
0.0	5.80
22.5	6.44
45.0	6.44
67.5	6.22
90.0	6.22
112.5	6.44
135.0	6.44
157.5	6.44
180.0	5.80
202.5	6.44
225.0	6.44
247.5	6.22
270.0	6.22
292.5	6.44
315.0	6.44
337.5	6.44
360.0	5.80