



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LRG3-40K

Luminaire:

Report No:

Voltage(V): 120.04

Test No:

Current(A): 0.0591

LampCAT:

Power (W): 7.0470

Lamp flux(lm): 624.1

PF: 0.9933

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 624.06

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 88.56

Central intensity(cd): 1005.053

Maximum intensity(cd): 1063.308

Angle of maximum intensity: C=315.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=45.4

[C90/270]Total=44.4

Field angle(10%Imax): [C0/180]Total=69.4

[C90/270]Total=68.4

Maximum s/h(1/2): C0_180=0.80 C90_270=0.66

Maximum s/h(1/4): C0_180=1.15 C90_270=0.64

Up flux rate of lamp(%): 0.80%

Down flux rate of lamp(%): 99.20%

Up flux rate of LUM(%): 0.80%

Down flux rate of LUM(%): 99.20%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.309%

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

Date:
Humidity(%): 58%

Operator: Zac

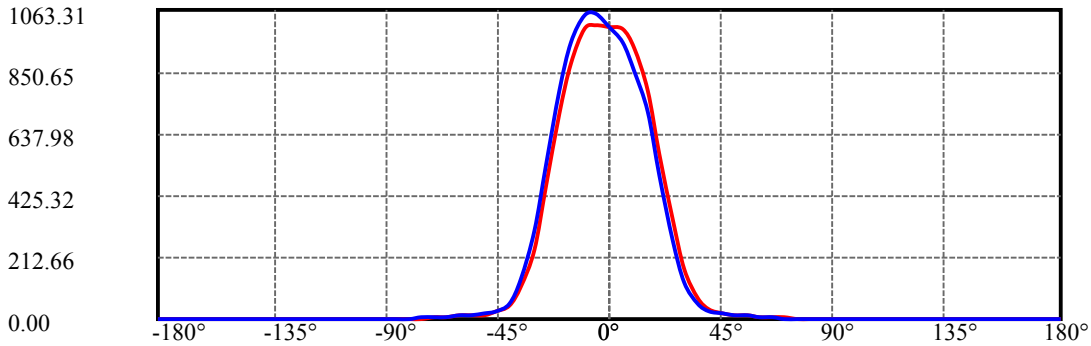
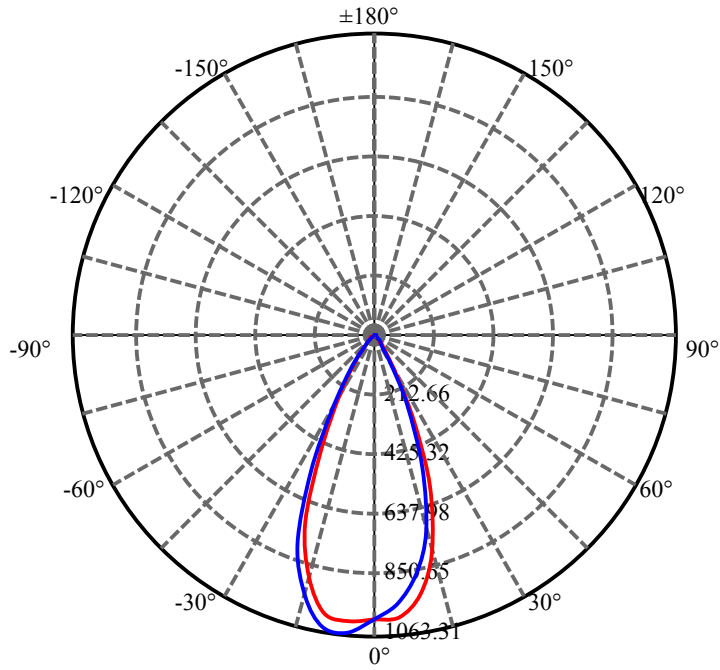
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1005.053	.000	.000	.000%	.000%
5.0	1003.310	24.009	24.009	3.847%	3.847%
10.0	951.995	69.947	93.957	11.209%	15.056%
15.0	831.062	105.770	199.727	16.949%	32.005%
20.0	638.807	121.138	320.864	19.411%	51.416%
25.0	400.687	109.024	429.888	17.470%	68.886%
30.0	210.487	77.345	507.233	12.394%	81.280%
35.0	95.696	45.088	552.320	7.225%	88.505%
40.0	42.545	23.064	575.385	3.696%	92.201%
45.0	23.948	12.312	587.697	1.973%	94.174%
50.0	16.042	8.081	595.777	1.295%	95.469%
55.0	12.783	6.268	602.045	1.004%	96.473%
60.0	9.791	5.218	607.263	.836%	97.309%
65.0	6.933	4.066	611.328	.651%	97.960%
70.0	4.829	2.978	614.306	.477%	98.438%
75.0	2.725	1.974	616.280	.316%	98.754%
80.0	2.116	1.295	617.576	.208%	98.962%
85.0	1.326	.935	618.511	.150%	99.111%
90.0	.718	.559	619.070	.090%	99.201%
95.0	.584	.356	619.427	.057%	99.258%
100.0	.669	.340	619.767	.055%	99.313%
105.0	.657	.355	620.122	.057%	99.370%
110.0	.681	.350	620.471	.056%	99.426%
115.0	.681	.345	620.816	.055%	99.481%
120.0	.693	.334	621.150	.054%	99.534%
125.0	.742	.332	621.482	.053%	99.588%
130.0	.705	.315	621.797	.050%	99.638%
135.0	.803	.305	622.101	.049%	99.687%
140.0	.851	.306	622.408	.049%	99.736%
145.0	.949	.300	622.708	.048%	99.784%
150.0	1.022	.290	622.998	.046%	99.830%
155.0	1.131	.272	623.270	.044%	99.874%
160.0	1.314	.256	623.527	.041%	99.915%
165.0	1.399	.224	623.750	.036%	99.951%
170.0	1.411	.167	623.917	.027%	99.978%
175.0	1.472	.103	624.020	.017%	99.994%
180.0	1.511	.036	624.056	.006%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	507.23	81.28%	81.28%
0-40	575.38	92.20%	92.20%
0-60	607.26	97.31%	97.31%
0-90	619.07	99.20%	99.20%
0-120	621.15	99.53%	99.53%
0-180	624.06	100.00%	100.00%
60-90	17.03	2.73%	2.73%
90-120	2.64	0.42%	0.42%
90-130	3.29	0.53%	0.53%
90-150	4.49	0.72%	0.72%
90-180	5.51	0.88%	0.88%
0-29.48	499.24	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	93.96
10-20	226.91
20-30	186.37
30-40	68.15
40-50	20.39
50-60	11.49
60-70	7.04
70-80	3.27
80-90	1.49
90-100	0.70
100-110	0.70
110-120	0.68
120-130	0.65
130-140	0.61
140-150	0.59
150-160	0.53
160-170	0.39
170-180	0.10

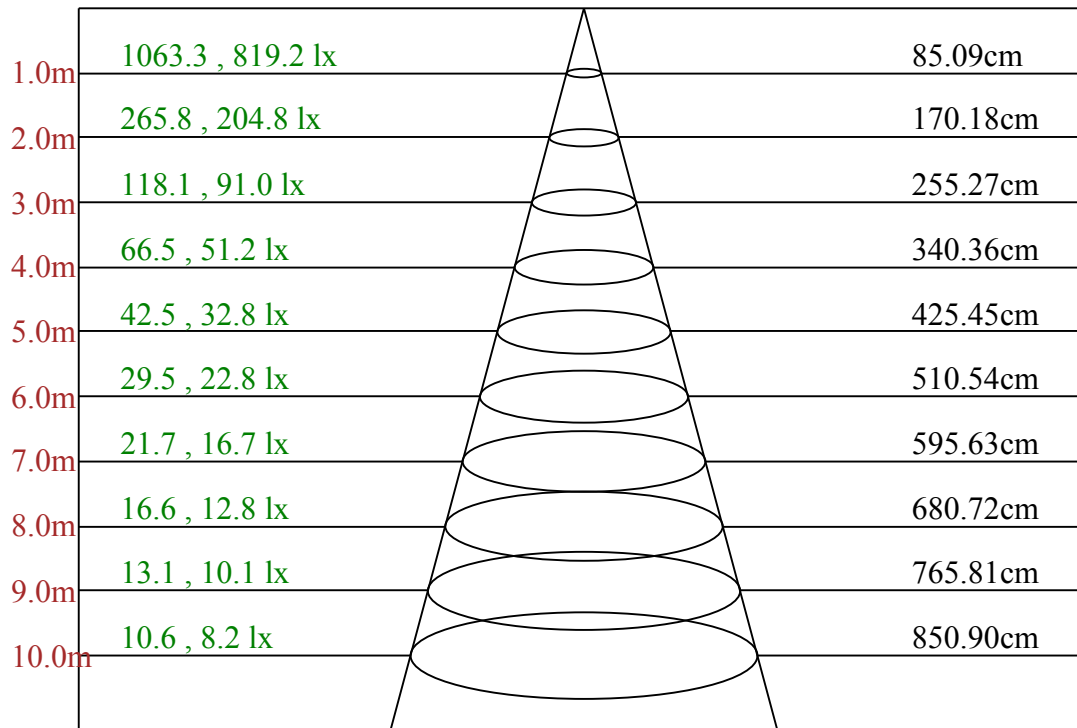


C0/C180: —

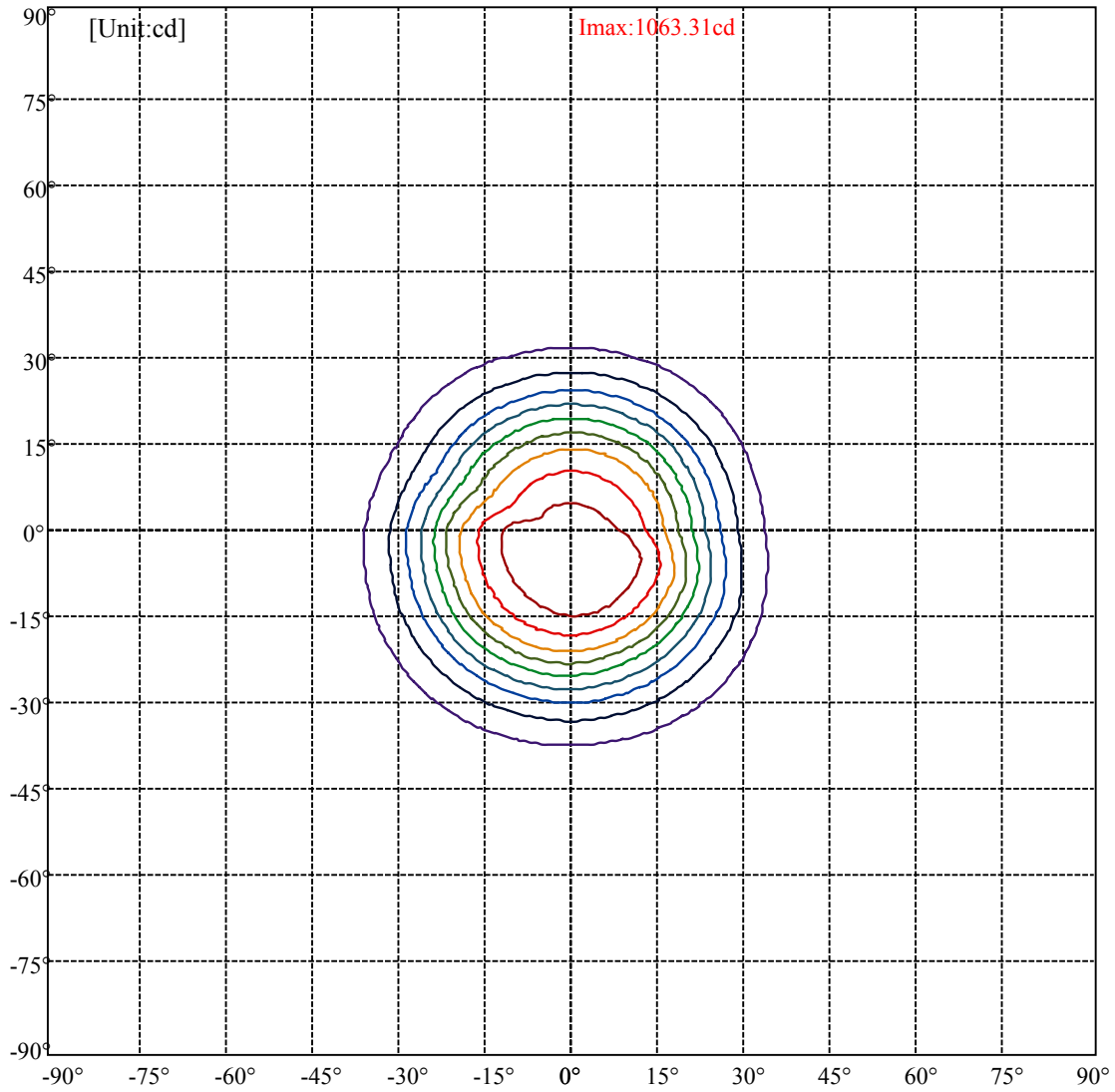
C90/C270: —

Field angle(10%Imax):C0/180Left:30.9 Right:38.5
:C90/270Left:32.1 Right:36.3

Beam Angle(50%Imax):C0/180Left:19.0 Right:26.4
:C90/270Left:20.1 Right:24.3



Max , Ave Beam angle of C315plane46.02



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	1005.05	998.90	931.76	789.11	570.77	341.14	169.11	72.39	34.83
22.5	1005.05	973.21	897.90	763.23	547.22	319.73	150.04	65.00	32.30
45.0	1005.05	959.78	872.21	736.57	525.04	300.27	137.58	58.77	30.75
67.5	1005.05	952.58	858.39	721.39	501.10	284.90	128.24	54.88	28.41
90.0	1005.05	952.19	855.08	712.83	495.07	272.44	123.96	52.93	27.63
112.5	1005.05	954.72	856.84	709.72	501.88	278.09	128.44	57.99	29.39
135.0	1005.05	961.53	865.98	720.42	514.92	298.72	143.81	64.80	31.72
157.5	1005.05	966.59	875.13	737.54	545.47	319.54	161.33	67.53	33.86
180.0	1005.05	1013.10	994.81	880.19	706.41	454.20	238.97	112.68	48.85
202.5	1005.05	1017.58	1007.85	906.26	739.10	492.73	271.67	128.24	53.91
225.0	1005.05	1025.36	1021.27	925.14	768.49	525.62	292.10	134.86	57.02
247.5	1005.05	1039.37	1029.64	938.96	786.58	534.96	297.74	138.17	58.19
270.0	1005.05	1052.02	1042.68	952.00	787.17	530.10	303.39	140.11	55.85
292.5	1005.05	1062.53	1051.44	950.44	769.26	510.05	293.07	136.22	56.24
315.0	1005.05	1063.31	1040.73	934.48	747.47	490.79	274.39	131.36	54.29
337.5	1005.05	1060.19	1030.23	918.72	714.97	457.71	253.96	115.21	47.48
360.0	1005.05	998.90	931.76	789.11	570.77	341.14	169.11	72.39	34.83
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	21.41	15.96	12.26	8.76	6.23	4.09	2.14	1.36	0.58
22.5	21.02	14.98	12.07	8.56	6.23	3.70	2.34	1.75	0.97
45.0	19.85	14.21	11.68	8.17	6.03	3.89	1.95	1.75	0.97
67.5	18.29	13.62	11.09	7.78	5.64	3.70	2.14	1.56	0.97
90.0	16.74	13.04	10.12	7.20	5.45	3.11	2.14	1.36	0.78
112.5	17.90	13.04	10.90	7.98	5.64	4.09	2.14	1.75	0.97
135.0	18.49	12.84	11.09	8.17	5.84	4.09	1.95	1.75	0.97
157.5	18.68	13.04	11.29	8.17	5.84	4.28	2.14	1.36	0.97
180.0	25.30	16.35	12.84	10.31	6.81	5.06	2.72	2.14	1.36
202.5	28.61	16.93	13.23	10.51	7.59	5.64	3.11	2.34	1.75
225.0	30.94	18.49	14.01	11.48	7.98	5.84	3.31	2.34	1.95
247.5	30.94	18.68	14.60	11.48	8.17	6.03	3.50	2.92	1.95
270.0	29.58	18.88	14.79	11.87	8.17	6.03	3.70	2.92	1.75
292.5	29.97	19.07	14.98	11.87	8.37	5.84	3.70	2.92	1.95
315.0	28.41	18.88	15.18	12.65	8.76	6.23	3.50	2.92	1.75
337.5	27.05	18.68	14.40	11.68	8.17	5.64	3.11	2.72	1.56
360.0	21.41	15.96	12.26	8.76	6.23	4.09	2.14	1.36	0.58
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.20	0.00	0.20	0.20	0.20	0.00	0.00	0.00	0.20
22.5	0.78	0.20	0.58	0.58	0.39	0.58	0.58	0.39	0.39
45.0	0.39	0.58	0.58	0.58	0.58	0.58	0.58	0.78	0.58
67.5	0.58	0.39	0.58	0.39	0.39	0.58	0.78	0.58	0.58
90.0	0.58	0.39	0.58	0.78	0.78	0.58	0.58	0.78	0.78
112.5	0.58	0.58	0.58	0.39	0.58	0.58	0.58	0.58	0.78
135.0	0.39	0.58	0.58	0.78	0.58	0.58	0.58	0.78	0.78
157.5	0.39	0.58	0.58	0.39	0.78	0.58	0.78	0.58	0.58
180.0	0.58	0.58	0.58	0.78	0.78	0.78	0.78	0.97	0.78
202.5	0.78	0.78	0.97	0.78	0.78	0.78	0.78	0.78	0.78
225.0	1.17	0.78	0.58	0.97	0.78	0.78	0.97	1.17	0.97
247.5	0.97	0.78	0.78	0.97	0.78	0.97	0.97	0.97	0.78
270.0	0.97	0.78	0.78	0.78	0.78	0.97	0.78	0.78	0.97
292.5	1.17	0.78	0.97	0.78	0.97	0.78	0.58	0.78	0.78
315.0	0.97	0.78	0.97	0.58	0.78	0.97	0.78	0.97	0.78
337.5	0.97	0.78	0.78	0.78	0.97	0.78	0.97	0.97	0.78
360.0	0.20	0.00	0.20	0.20	0.20	0.00	0.00	0.00	0.20

Intensity data(cd)

Page: 8 Total:8

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.20	0.39	0.39	0.39	0.39	0.78	0.97	0.78	0.97
22.5	0.58	0.78	0.78	0.97	1.17	1.36	1.56	1.36	1.36
45.0	0.97	0.78	0.97	1.17	1.17	1.36	1.56	1.56	1.56
67.5	0.78	0.78	0.97	0.97	0.97	1.36	1.56	1.56	1.56
90.0	0.97	0.78	0.97	0.97	0.97	1.56	1.36	1.36	1.36
112.5	0.97	0.97	0.97	1.17	1.17	1.56	1.36	1.56	1.56
135.0	0.58	0.97	0.97	1.17	1.17	1.36	1.36	1.36	1.56
157.5	0.78	0.78	0.97	0.97	1.36	1.36	1.36	1.36	1.56
180.0	0.78	0.97	0.78	0.97	1.17	1.17	1.36	1.36	1.56
202.5	0.78	0.78	1.17	0.78	1.17	1.36	1.36	1.36	1.56
225.0	1.17	0.97	1.17	1.17	1.36	1.36	1.36	1.56	1.56
247.5	0.97	0.78	0.97	1.17	1.36	1.17	1.56	1.56	1.56
270.0	0.78	0.97	0.97	1.17	1.36	1.56	1.17	1.36	1.56
292.5	0.78	0.97	0.97	0.97	0.97	1.17	1.36	1.56	1.56
315.0	0.78	0.97	0.97	1.17	1.17	1.17	1.56	1.56	1.36
337.5	0.97	0.97	1.17	1.17	1.17	1.36	1.56	1.36	1.36
360.0	0.20	0.39	0.39	0.39	0.39	0.78	0.97	0.78	0.97

C/γ(°)	180.0
0.0	1.51
22.5	1.51
45.0	1.51
67.5	1.51
90.0	1.51
112.5	1.51
135.0	1.51
157.5	1.51
180.0	1.51
202.5	1.51
225.0	1.51
247.5	1.51
270.0	1.51
292.5	1.51
315.0	1.51
337.5	1.51
360.0	1.51