



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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Client:

LumCAT: LRG2-30K-HO

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.03

LampCAT:

Current(A): 0.0470

Lamp flux(lm): -1.0

Power (W): 5.23

Number of Lamps: 1

PF: 0.9379

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 491.03, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 93.83

Central intensity(cd): 918.660, Maximum intensity(cd): 982.307

Angle of maximum intensity: C=90.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=34.7

[C90/270]Total=34.4

Field angle(10%Imax): [C0/180]Total=72.9

[C90/270]Total=72.7

Maximum s/h(1/2): C0_180=0.63 C90_270=0.67

Maximum s/h(1/4): C0_180=0.64 C90_270=0.67

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.09%

Down flux rate of LUM(%): 99.91%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.177%

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

Date:
Humidity(%): 59%

Operator: jarvis

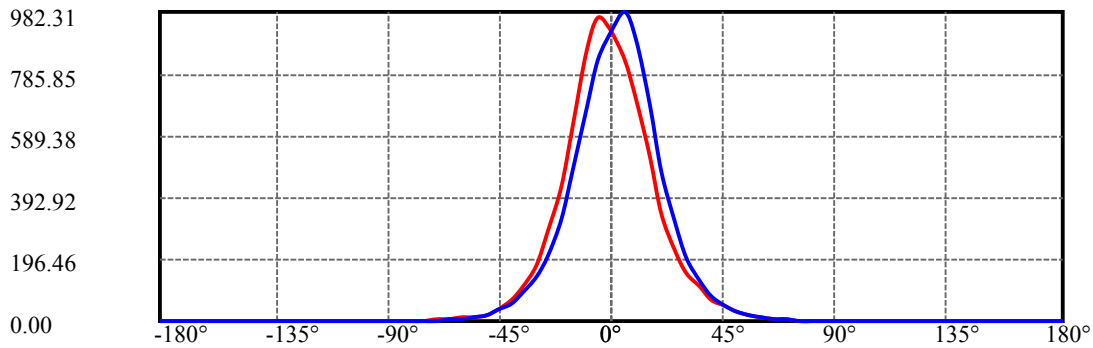
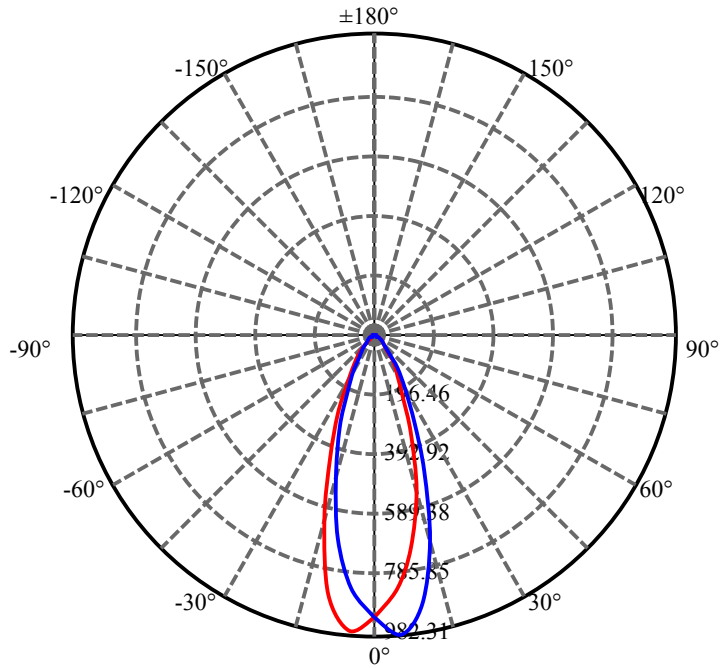
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	918.660	0.000	0	0.00%	0.00%
5.0	898.420	21.723	21.723	0.00%	4.42%
10.0	781.622	60.100	81.823	0.00%	16.66%
15.0	576.107	80.540	162.363	0.00%	33.07%
20.0	388.189	79.472	241.834	0.00%	49.25%
25.0	259.078	67.886	309.721	0.00%	63.08%
30.0	166.506	53.858	363.578	0.00%	74.04%
35.0	108.100	40.438	404.016	0.00%	82.28%
40.0	67.704	29.332	433.348	0.00%	88.25%
45.0	41.396	20.201	453.549	0.00%	92.37%
50.0	24.814	13.379	466.927	0.00%	95.09%
55.0	16.316	8.943	475.87	0.00%	96.91%
60.0	10.539	6.207	482.078	0.00%	98.18%
65.0	5.910	3.999	486.077	0.00%	98.99%
70.0	3.229	2.314	488.39	0.00%	99.46%
75.0	1.441	1.220	489.611	0.00%	99.71%
80.0	0.827	0.607	490.218	0.00%	99.83%
85.0	0.227	0.286	490.504	0.00%	99.89%
90.0	0.013	0.066	490.57	0.00%	99.91%
95.0	0.000	0.004	490.573	0.00%	99.91%
100.0	0.013	0.004	490.577	0.00%	99.91%
105.0	0.000	0.004	490.581	0.00%	99.91%
110.0	0.013	0.003	490.584	0.00%	99.91%
115.0	0.013	0.007	490.591	0.00%	99.91%
120.0	0.027	0.010	490.6	0.00%	99.91%
125.0	0.027	0.012	490.613	0.00%	99.92%
130.0	0.053	0.017	490.63	0.00%	99.92%
135.0	0.053	0.022	490.652	0.00%	99.92%
140.0	0.080	0.025	490.676	0.00%	99.93%
145.0	0.133	0.036	490.712	0.00%	99.94%
150.0	0.133	0.039	490.751	0.00%	99.94%
155.0	0.227	0.046	490.797	0.00%	99.95%
160.0	0.360	0.062	490.858	0.00%	99.97%
165.0	0.467	0.068	490.926	0.00%	99.98%
170.0	0.480	0.056	490.983	0.00%	99.99%
175.0	0.494	0.035	491.017	0.00%	100.00%
180.0	0.540	0.012	491.03	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	363.58	N.A.	74.04%
0-40	433.35	N.A.	88.25%
0-60	482.08	N.A.	98.18%
0-90	490.57	N.A.	99.91%
0-120	490.60	N.A.	99.91%
0-180	491.03	N.A.	100.00%
60-90	8.49	N.A.	1.73%
90-120	0.03	N.A.	0.01%
90-130	0.06	N.A.	0.01%
90-150	0.18	N.A.	0.04%
90-180	0.45	N.A.	0.09%
0-33.62	392.82	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	81.82
10-20	160.01
20-30	121.74
30-40	69.77
40-50	33.58
50-60	15.15
60-70	6.31
70-80	1.83
80-90	0.35
90-100	0.01
100-110	0.01
110-120	0.02
120-130	0.03
130-140	0.05
140-150	0.07
150-160	0.11
160-170	0.12
170-180	0.03



C0/C180: —

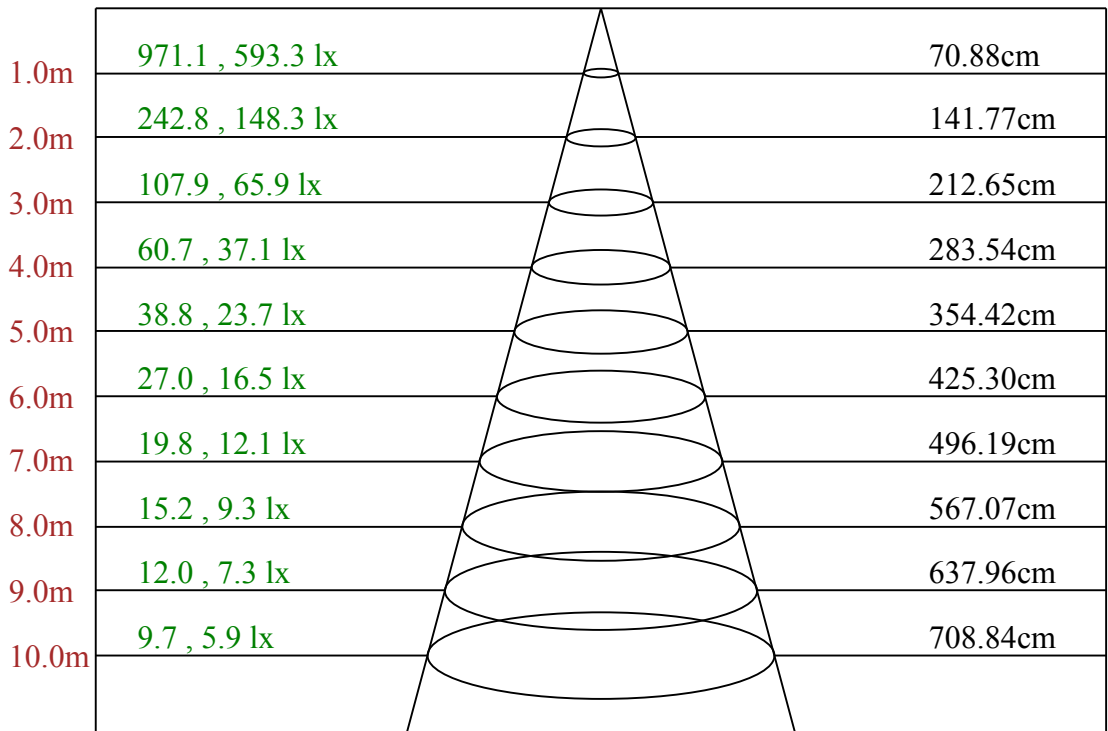
C90/C270: —

Field angle(10%Imax):C0/180Left:36.5 Right:36.4

:C90/270Left:34.4 Right:38.3

Beam Angle(50%Imax):C0/180Left:18.6 Right:16.1

:C90/270Left:14.8 Right:19.6



Max , Ave Beam angle of C90 plane 39.03

LRG2-30K-HO

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	918.66	829.26	702.26	522.32	340.24	227.11	152.41	106.94	69.80
22.5	918.66	841.43	721.68	530.43	346.65	234.58	157.74	106.30	70.23
45.0	918.66	848.90	731.93	540.03	359.67	240.13	158.17	105.45	68.09
67.5	918.66	859.79	741.53	538.33	363.08	245.68	159.88	104.17	67.45
90.0	918.66	982.31	891.80	692.01	473.86	314.63	199.58	128.93	81.75
112.5	918.66	978.04	888.39	675.15	459.35	309.51	192.32	121.88	75.78
135.0	918.66	975.69	879.42	660.42	452.73	299.90	186.34	119.11	72.36
157.5	918.66	968.86	870.46	642.06	438.86	289.87	181.86	113.13	66.17
180.0	918.66	965.23	856.80	624.35	426.48	284.32	179.30	110.57	64.89
202.5	918.66	957.55	840.79	609.62	421.35	283.68	175.46	108.01	66.38
225.0	918.66	950.08	836.09	606.20	415.16	278.34	170.12	105.66	64.46
247.5	918.66	938.12	828.62	607.91	410.26	281.33	175.24	109.50	70.01
270.0	918.66	828.62	671.52	484.32	322.31	210.46	140.24	92.64	56.78
292.5	918.66	819.44	671.73	484.54	323.17	210.04	139.81	93.28	57.63
315.0	918.66	812.61	679.85	494.14	323.81	216.01	145.36	99.47	64.46
337.5	918.66	818.80	693.08	505.88	334.05	219.64	150.27	104.59	67.02
360.0	918.66	829.26	702.26	522.32	340.24	227.11	152.41	106.94	69.80
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	47.81	30.95	19.85	12.59	5.98	3.42	1.49	1.07	0.21
22.5	49.31	32.02	20.49	13.45	6.62	3.42	1.71	1.07	0.43
45.0	46.11	28.39	18.57	12.38	6.40	3.63	1.49	1.07	0.43
67.5	45.25	26.90	17.50	12.17	6.19	3.42	1.49	1.07	0.43
90.0	47.39	30.10	19.42	12.81	8.11	4.70	2.35	1.07	0.43
112.5	42.48	24.76	16.22	11.31	7.47	4.27	1.92	0.85	0.43
135.0	39.49	22.20	14.94	10.46	6.83	3.63	1.71	0.85	0.00
157.5	36.71	20.06	14.09	10.03	6.19	3.63	1.49	0.64	0.00
180.0	35.86	19.64	13.87	9.61	5.76	3.20	1.07	0.43	0.21
202.5	37.35	20.06	14.30	9.61	5.55	2.99	0.85	0.64	0.21
225.0	35.65	19.85	14.30	9.39	5.34	2.78	0.85	0.43	0.00
247.5	40.77	22.20	14.94	9.61	5.55	2.78	0.85	0.64	0.21
270.0	33.94	21.13	13.23	7.90	4.27	2.14	1.49	0.85	0.21
292.5	35.65	21.77	13.66	7.90	4.27	2.14	1.28	1.07	0.21
315.0	42.90	27.11	17.08	8.75	4.91	2.56	1.49	0.64	0.00
337.5	45.68	29.88	18.57	10.67	5.12	2.99	1.49	0.85	0.21
360.0	47.81	30.95	19.85	12.59	5.98	3.42	1.49	1.07	0.21
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	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.21	0.00	0.21	0.00	0.21	0.21	0.43	0.43	0.43
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

LRG2-30K-HO

Intensity data(cd)

Appendix Page: 7 Total:7

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.21	0.21	0.43	0.43	0.43	0.43	0.64
22.5	0.00	0.00	0.21	0.21	0.43	0.21	0.43	0.43	0.43
45.0	0.21	0.00	0.21	0.21	0.21	0.43	0.64	0.64	0.43
67.5	0.21	0.21	0.21	0.21	0.21	0.43	0.43	0.64	0.43
90.0	0.00	0.00	0.00	0.00	0.21	0.43	0.43	0.43	0.64
112.5	0.00	0.00	0.00	0.00	0.00	0.21	0.43	0.43	0.43
135.0	0.00	0.00	0.00	0.00	0.00	0.21	0.43	0.21	0.43
157.5	0.00	0.00	0.00	0.00	0.00	0.21	0.43	0.21	0.43
180.0	0.00	0.00	0.00	0.00	0.00	0.21	0.43	0.43	0.43
202.5	0.00	0.00	0.00	0.00	0.21	0.21	0.43	0.43	0.43
225.0	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.43	0.43
247.5	0.00	0.00	0.00	0.00	0.21	0.21	0.43	0.43	0.21
270.0	0.43	0.64	0.64	0.64	0.85	0.64	1.07	1.07	1.07
292.5	0.00	0.21	0.21	0.43	0.43	0.64	0.43	0.64	0.64
315.0	0.00	0.00	0.21	0.00	0.21	0.64	0.43	0.43	0.43
337.5	0.00	0.21	0.21	0.21	0.21	0.43	0.43	0.43	0.43
360.0	0.00	0.00	0.21	0.21	0.43	0.43	0.43	0.43	0.64

C/γ(°)	180.0
0.0	0.54
22.5	0.54
45.0	0.54
67.5	0.54
90.0	0.54
112.5	0.54
135.0	0.54
157.5	0.54
180.0	0.54
202.5	0.54
225.0	0.54
247.5	0.54
270.0	0.54
292.5	0.54
315.0	0.54
337.5	0.54
360.0	0.54