Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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Client:
LumCAT: LRG6-35K
Luminaire:
Report No:
Ballast type:

Test No:	Voltage(V): 120.05
LampCAT:	Current(A): 0.1230
Lamp flux(lm): -1.0	Power (W): 14.53
Number of Lamps: 1	PF: 0.9866
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1263.91, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 86.96
Central intensity(cd): 2085.103, Maximum intensity(cd): 2085.103
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=41.9
[C90/270]Total=40.5
Field angle(10%Imax): [C0/180]Total=76.8
[C90/270]Total=75.4
Maximum s/h(1/2): C0_180=0.66 C90_270=0.67
Maximum s/h(1/4): C0_180=0.72 C90_270=0.70
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 0.00%
Up flux rate of LUM(%): 0.11%
Down flux rate of LUM(%): 99.89%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.790%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2085.103	0.000	0	0.00%	0.00%
5.0	1959.835	48.356	48.356	0.00%	3.83%
10.0	1674.429	130.009	178.365	0.00%	14.11%
15.0	1376.413	180.974	359.339	0.00%	28.43%
20.0	1076.977	202.194	561.533	0.00%	44.43%
25.0	784.662	195.252	756.784	0.00%	59.88%
30.0	480.580	160.117	916.902	0.00%	72.55%
35.0	267.904	110.220	1027.121	0.00%	81.27%
40.0	167.314	72.613	1099.734	0.00%	87.01%
45.0	97.223	48.981	1148.715	0.00%	90.89%
50.0	62.325	32.239	1180.954	0.00%	93.44%
55.0	46.195	23.596	1204.55	0.00%	95.30%
60.0	35.086	18.788	1223.338	0.00%	96.79%
65.0	25.890	14.823	1238.162	0.00%	97.96%
70.0	15.273	10.423	1248.584	0.00%	98.79%
75.0	9.467	6.467	1255.051	0.00%	99.30%
80.0	6.276	4.212	1259.263	0.00%	99.63%
85.0	2.733	2.448	1261.711	0.00%	99.83%
90.0	0.071	0.768	1262.479	0.00%	99.89%
95.0	0.023	0.026	1262.505	0.00%	99.89%
100.0	0.012	0.010	1262.514	0.00%	99.89%
105.0	0.012	0.006	1262.52	0.00%	99.89%
110.0	0.035	0.012	1262.533	0.00%	99.89%
115.0	0.035	0.018	1262.55	0.00%	99.89%
120.0	0.035	0.017	1262.568	0.00%	99.89%
125.0	0.047	0.019	1262.587	0.00%	99.90%
130.0	0.094	0.031	1262.617	0.00%	99.90%
135.0	0.094	0.038	1262.655	0.00%	99.90%
140.0	0.235	0.061	1262.716	0.00%	99.91%
145.0	0.469	0.117	1262.833	0.00%	99.92%
150.0	0.657	0.166	1262.999	0.00%	99.93%
155.0	0.903	0.197	1263.197	0.00%	99.94%
160.0	1.126	0.213	1263.409	0.00%	99.96%
165.0	1.302	0.200	1263.61	0.00%	99.98%
170.0	1.361	0.158	1263.768	0.00%	99.99%
175.0	1.467	0.101	1263.869	0.00%	100.00%
180.0	1.590	0.037	1263.905	0.00%	100.00%

Zonal flux distribution table

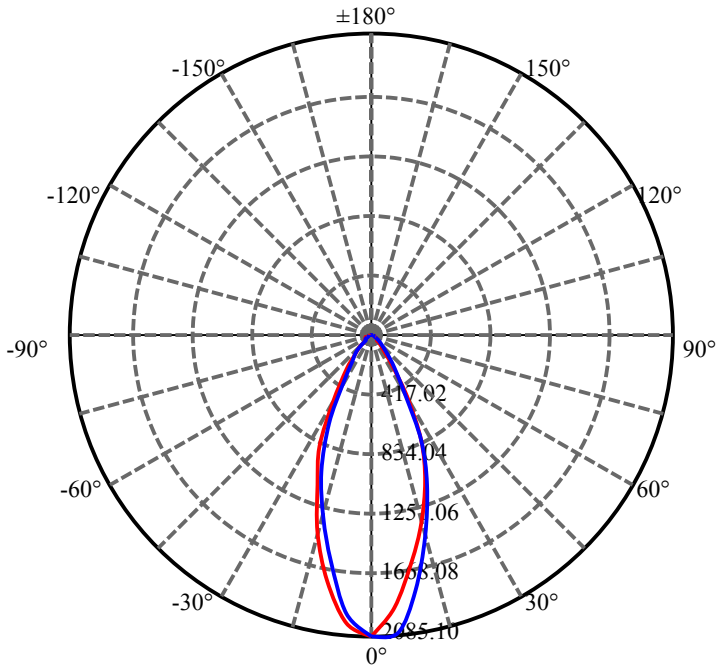
ZONAL LUMEN SUMMARY

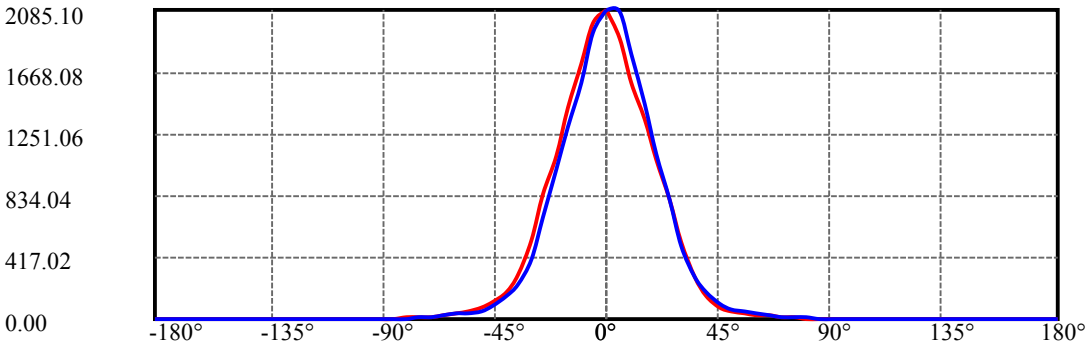
Zone	Lumens	%Lamp	%Fixt
0-30	916.90	N.A.	72.55%
0-40	1099.73	N.A.	87.01%
0-60	1223.34	N.A.	96.79%
0-90	1262.48	N.A.	99.89%
0-120	1262.57	N.A.	99.89%
0-180	1263.91	N.A.	100.00%
60-90	39.14	N.A.	3.10%
90-120	0.09	N.A.	0.01%
90-130	0.14	N.A.	0.01%
90-150	0.52	N.A.	0.04%
90-180	1.39	N.A.	0.11%
0-34.27	1011.12	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	178.37
10-20	383.17
20-30	355.37
30-40	182.83
40-50	81.22
50-60	42.38
60-70	25.25
70-80	10.68
80-90	3.22
90-100	0.04
100-110	0.02
110-120	0.03
120-130	0.05
130-140	0.10
140-150	0.28
150-160	0.41
160-170	0.36
170-180	0.10

Light Distribution Curve [Unit:cd]





C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:39.0 Right:37.8

:C90/270Left:36.6 Right:38.8

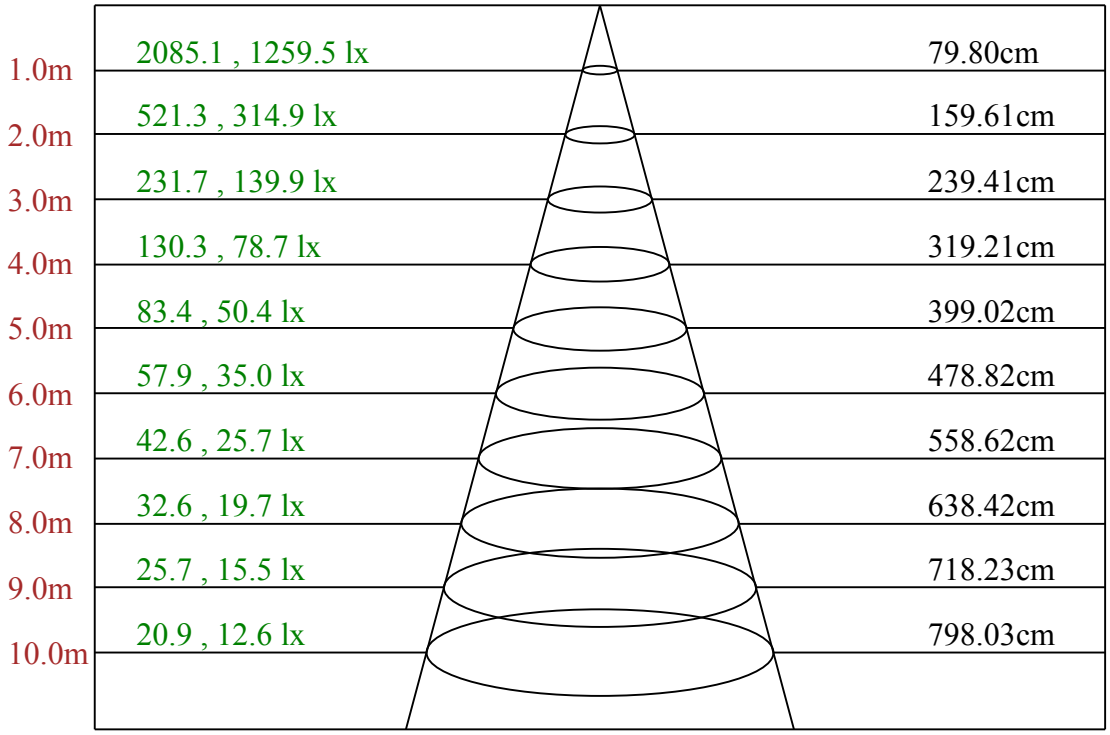
Beam Angle(50%Imax):C0/180Left:21.2 Right:20.7

:C90/270Left:19.4 Right:21.1

Equipment: GMS-3000 Date: Operator: jarvis

Temperature(°C): 25 Humidity(%): 59%

Lux distance Curve



Max , Ave

Beam angle of C0 plane 43.51

Equipment: GMS-3000 Date: Operator: jarvis
Temperature(°C): 25 Humidity(%): 59%

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	2085.10	1895.29	1597.81	1347.24	1078.65	801.62	511.64	284.16	150.15
22.5	2085.10	1883.84	1599.49	1336.54	1032.67	761.27	468.47	248.50	143.96
45.0	2085.10	1851.19	1581.29	1308.95	1001.14	699.90	399.22	230.30	141.71
67.5	2085.10	1815.34	1549.01	1247.58	950.46	655.04	366.37	215.09	140.77
90.0	2085.10	2066.09	1793.38	1445.78	1109.06	805.75	487.99	279.10	185.63
112.5	2085.10	2034.37	1748.90	1412.93	1085.22	802.38	481.05	274.03	184.88
135.0	2085.10	2015.79	1728.06	1400.54	1103.81	832.22	493.81	281.35	185.63
157.5	2085.10	2005.84	1726.75	1411.62	1101.37	835.97	525.16	300.12	186.94
180.0	2085.10	1996.65	1721.68	1421.75	1106.43	843.48	533.98	298.43	186.00
202.5	2085.10	2006.41	1736.70	1427.57	1125.77	845.17	539.61	289.23	186.00
225.0	2085.10	2026.86	1771.98	1459.29	1155.42	834.09	510.52	284.54	185.81
247.5	2085.10	2045.26	1808.77	1481.81	1174.94	850.24	526.66	284.35	186.56
270.0	2085.10	1929.83	1595.18	1300.32	1006.96	680.56	404.28	233.11	156.35
292.5	2085.10	1939.96	1607.75	1317.96	1035.30	723.17	439.95	246.06	154.47
315.0	2085.10	1938.65	1613.01	1343.30	1074.34	782.86	486.49	256.39	153.34
337.5	2085.10	1905.99	1611.13	1359.44	1090.10	800.87	514.08	281.72	148.84
360.0	2085.10	1895.29	1597.81	1347.24	1078.65	801.62	511.64	284.16	150.15

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	80.71	52.55	41.67	31.16	22.90	11.82	8.26	4.88	1.88
22.5	80.14	52.37	41.48	30.78	22.34	11.45	8.07	4.88	1.69
45.0	79.58	51.43	40.73	30.78	21.77	10.89	7.88	5.07	1.50
67.5	78.45	51.43	40.54	30.78	21.96	11.26	7.88	4.88	1.69
90.0	105.11	65.69	48.42	36.60	27.40	17.08	9.76	6.76	3.19
112.5	107.55	66.63	48.05	37.16	27.59	17.27	9.95	6.95	3.19
135.0	109.99	68.70	49.36	37.54	28.15	18.02	10.32	6.95	3.38
157.5	111.86	72.82	50.11	38.29	28.72	18.21	10.51	7.32	3.38
180.0	115.62	73.76	51.05	38.85	29.09	18.58	10.70	7.51	3.75
202.5	117.31	74.33	51.62	39.42	29.28	18.96	10.89	7.51	3.94
225.0	117.87	74.89	51.24	39.23	29.28	19.33	10.70	7.70	3.94
247.5	117.68	73.95	50.86	39.42	29.47	19.33	10.51	7.32	3.75
270.0	85.21	56.68	44.86	33.97	24.96	14.08	9.57	6.38	2.44
292.5	83.71	54.81	43.73	33.03	24.40	13.14	9.01	5.82	2.07
315.0	83.15	53.87	42.79	32.28	23.84	12.76	8.82	5.26	2.07
337.5	81.65	53.30	42.61	32.10	23.09	12.20	8.63	5.26	1.88
360.0	80.71	52.55	41.67	31.16	22.90	11.82	8.26	4.88	1.88

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	0.19
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
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	0.19	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	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.19	0.38	0.19	0.19	0.56	0.38	0.38	0.38	0.38
292.5	0.19	0.00	0.00	0.00	0.00	0.19	0.00	0.19	0.19
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19	0.19
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

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	0.00	0.56	0.56	0.94	1.13	1.31	1.50	1.31	1.69
22.5	0.00	0.38	0.56	0.56	1.13	1.31	1.31	1.31	1.31
45.0	0.19	0.19	0.56	0.75	0.94	0.94	1.50	1.50	1.50
67.5	0.19	0.38	0.38	0.75	0.94	1.31	1.31	1.31	1.50
90.0	0.00	0.19	0.56	0.75	0.94	1.13	1.13	1.31	1.50
112.5	0.00	0.00	0.19	0.56	0.94	0.94	1.31	1.31	1.31
135.0	0.00	0.19	0.19	0.38	0.75	0.94	1.31	1.31	1.31
157.5	0.00	0.00	0.38	0.56	0.75	0.75	1.31	1.31	1.50
180.0	0.00	0.19	0.38	0.56	0.75	0.94	1.13	1.50	1.50
202.5	0.00	0.00	0.19	0.38	0.75	1.13	1.31	1.31	1.31
225.0	0.00	0.19	0.38	0.38	0.75	1.13	0.94	1.31	1.31
247.5	0.00	0.00	0.19	0.56	0.56	0.94	1.13	1.13	1.31
270.0	0.56	0.75	1.13	1.31	1.31	1.69	1.69	1.88	2.07
292.5	0.19	0.38	0.75	0.75	0.94	1.13	1.31	1.31	1.50
315.0	0.19	0.19	0.56	0.75	0.94	1.31	1.31	1.31	1.31
337.5	0.19	0.19	0.56	0.56	0.94	1.13	1.31	1.31	1.50
360.0	0.00	0.56	0.56	0.94	1.13	1.31	1.50	1.31	1.69

C/γ(°)	180.0
0.0	1.59
22.5	1.59
45.0	1.59
67.5	1.59
90.0	1.59
112.5	1.59
135.0	1.59
157.5	1.59
180.0	1.59
202.5	1.59
225.0	1.59
247.5	1.59
270.0	1.59
292.5	1.59
315.0	1.59
337.5	1.59
360.0	1.59