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

Test No:	Voltage(V): 119.95
LampCAT:	Current(A): 0.1480
Lamp flux(lm): -1.0	Power (W): 17.53
Number of Lamps: 1	PF: 0.9874
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1604.98, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 91.58
Central intensity(cd): 2650.260, Maximum intensity(cd): 2691.979
Angle of maximum intensity: C=90.0 γ=5.0
Beam Angle(50%Imax): [C0/180]Total=41.6
[C90/270]Total=41.5
Field angle(10%Imax): [C0/180]Total=75.1
[C90/270]Total=75.2
Maximum s/h(1/2): C0_180=0.69 C90_270=0.72
Maximum s/h(1/4): C0_180=0.72 C90_270=0.75
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 : 96.915%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2650.260	0.000	0	0.00%	0.00%
5.0	2503.028	61.606	61.606	0.00%	3.84%
10.0	2136.618	165.975	227.581	0.00%	14.18%
15.0	1740.573	229.992	457.573	0.00%	28.51%
20.0	1386.393	257.706	715.279	0.00%	44.57%
25.0	998.668	250.149	965.428	0.00%	60.15%
30.0	612.307	203.870	1169.298	0.00%	72.85%
35.0	346.223	141.150	1310.448	0.00%	81.65%
40.0	213.549	93.394	1403.842	0.00%	87.47%
45.0	116.757	61.159	1465.001	0.00%	91.28%
50.0	74.031	38.551	1503.552	0.00%	93.68%
55.0	57.516	28.603	1532.155	0.00%	95.46%
60.0	43.325	23.309	1555.464	0.00%	96.91%
65.0	31.513	18.193	1573.657	0.00%	98.05%
70.0	18.393	12.636	1586.293	0.00%	98.84%
75.0	11.715	7.870	1594.163	0.00%	99.33%
80.0	7.694	5.193	1599.356	0.00%	99.65%
85.0	3.270	2.979	1602.335	0.00%	99.83%
90.0	0.070	0.914	1603.25	0.00%	99.89%
95.0	0.014	0.023	1603.272	0.00%	99.89%
100.0	0.014	0.008	1603.28	0.00%	99.89%
105.0	0.014	0.007	1603.287	0.00%	99.89%
110.0	0.014	0.007	1603.295	0.00%	99.89%
115.0	0.028	0.011	1603.305	0.00%	99.90%
120.0	0.070	0.024	1603.329	0.00%	99.90%
125.0	0.070	0.032	1603.361	0.00%	99.90%
130.0	0.125	0.042	1603.404	0.00%	99.90%
135.0	0.139	0.053	1603.457	0.00%	99.90%
140.0	0.292	0.080	1603.537	0.00%	99.91%
145.0	0.543	0.139	1603.676	0.00%	99.92%
150.0	0.779	0.195	1603.871	0.00%	99.93%
155.0	1.127	0.241	1604.112	0.00%	99.95%
160.0	1.391	0.264	1604.376	0.00%	99.96%
165.0	1.517	0.240	1604.616	0.00%	99.98%
170.0	1.725	0.192	1604.808	0.00%	99.99%
175.0	1.892	0.129	1604.937	0.00%	100.00%
180.0	1.964	0.046	1604.984	0.00%	100.00%

Zonal flux distribution table

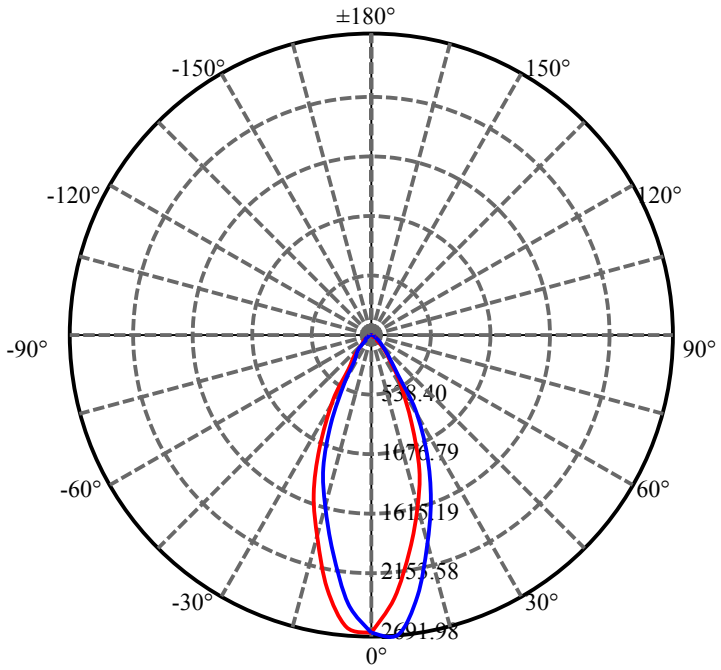
ZONAL LUMEN SUMMARY

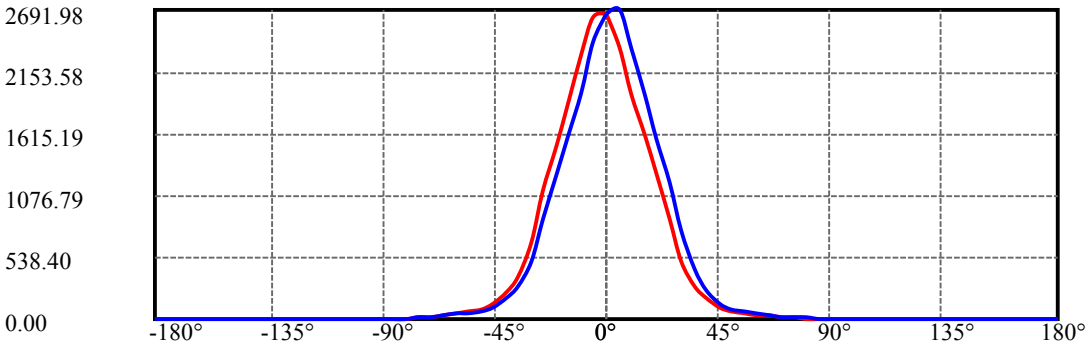
Zone	Lumens	%Lamp	%Fixt
0-30	1169.30	N.A.	72.85%
0-40	1403.84	N.A.	87.47%
0-60	1555.46	N.A.	96.91%
0-90	1603.25	N.A.	99.89%
0-120	1603.33	N.A.	99.90%
0-180	1604.98	N.A.	100.00%
60-90	47.79	N.A.	2.98%
90-120	0.08	N.A.	0.00%
90-130	0.15	N.A.	0.01%
90-150	0.62	N.A.	0.04%
90-180	1.69	N.A.	0.11%
0-34.06	1283.99	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	227.58
10-20	487.70
20-30	454.02
30-40	234.54
40-50	99.71
50-60	51.91
60-70	30.83
70-80	13.06
80-90	3.89
90-100	0.03
100-110	0.01
110-120	0.03
120-130	0.07
130-140	0.13
140-150	0.33
150-160	0.51
160-170	0.43
170-180	0.13

Light Distribution Curve [Unit:cd]





C0/C180:

C90/C270:

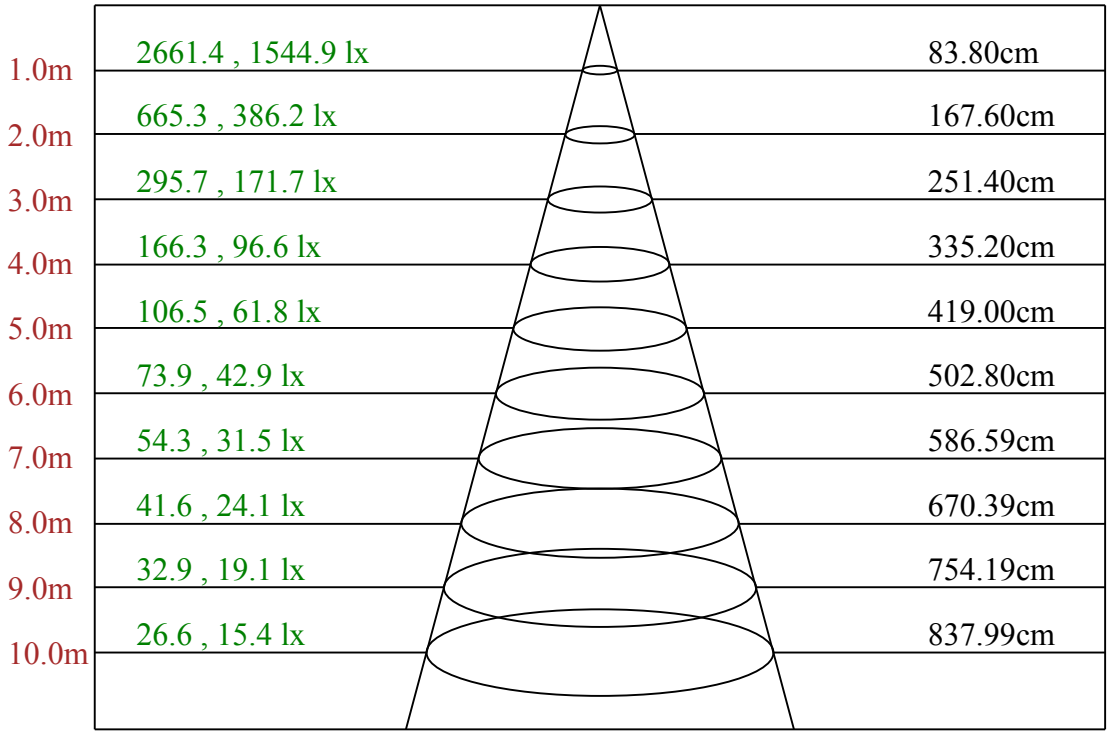
Field angle(10%Imax):C0/180Left:39.1 Right:36.0

:C90/270Left:35.7 Right:39.5

Beam Angle(50%Imax):C0/180Left:22.3 Right:19.3

:C90/270Left:18.6 Right:22.9

Lux distance Curve



Max , Ave

Beam angle of C90 plane 45.47

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	2650.26	2349.61	1948.03	1604.99	1276.65	872.17	498.19	285.83	182.32
22.5	2650.26	2358.96	1959.38	1595.20	1250.83	843.90	490.85	277.81	178.09
45.0	2650.26	2359.63	1955.38	1596.09	1235.47	835.89	489.73	287.83	178.53
67.5	2650.26	2365.42	1955.60	1596.53	1252.16	859.48	509.99	292.28	178.75
90.0	2650.26	2691.98	2362.74	1950.92	1566.93	1181.60	772.44	433.19	251.99
112.5	2650.26	2660.37	2342.04	1931.56	1557.35	1191.84	785.13	453.89	256.67
135.0	2650.26	2646.35	2311.99	1899.06	1555.35	1172.69	773.11	455.90	257.78
157.5	2650.26	2637.00	2314.22	1893.05	1517.73	1137.96	755.53	416.72	244.64
180.0	2650.26	2623.19	2304.20	1878.80	1505.49	1112.59	674.72	373.31	240.42
202.5	2650.26	2625.42	2297.97	1847.63	1464.75	1076.08	652.91	352.61	234.18
225.0	2650.26	2624.08	2313.77	1842.29	1444.49	1047.59	638.88	357.95	233.51
247.5	2650.26	2624.75	2306.20	1846.30	1479.67	1066.95	645.78	363.29	233.29
270.0	2650.26	2403.04	1973.63	1582.29	1258.17	867.72	496.19	283.60	185.65
292.5	2650.26	2371.65	1954.48	1590.30	1274.20	900.44	527.58	297.85	188.33
315.0	2650.26	2363.64	1941.13	1590.97	1273.98	915.14	548.28	308.76	189.44
337.5	2650.26	2343.38	1945.14	1603.21	1269.08	896.66	537.59	298.74	183.21
360.0	2650.26	2349.61	1948.03	1604.99	1276.65	872.17	498.19	285.83	182.32

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	102.18	67.01	52.98	39.85	28.05	14.92	10.91	6.90	2.67
22.5	102.40	66.11	52.31	39.40	27.38	14.69	10.69	6.68	2.45
45.0	101.06	65.67	51.87	38.73	26.94	14.02	10.46	6.46	2.23
67.5	102.84	65.45	51.42	38.73	26.94	13.80	10.24	6.23	2.00
90.0	134.45	82.81	62.11	46.75	35.17	22.04	12.47	8.68	4.23
112.5	133.12	79.69	61.89	46.75	34.28	21.37	12.47	8.24	3.78
135.0	130.23	78.14	61.66	45.86	34.06	21.37	12.24	8.46	3.78
157.5	128.67	79.03	60.99	45.63	34.50	21.37	12.24	8.46	3.78
180.0	130.89	79.03	60.99	46.08	34.50	21.37	12.24	8.24	4.01
202.5	130.23	79.25	60.99	46.30	34.50	21.15	12.24	8.46	4.01
225.0	130.45	81.25	61.44	46.53	34.95	22.26	12.69	8.68	4.23
247.5	134.23	85.26	61.89	47.42	35.84	22.71	12.69	8.90	4.45
270.0	103.29	69.68	55.87	42.07	30.05	16.25	11.80	7.35	2.89
292.5	102.40	69.23	55.65	41.63	29.16	16.03	11.58	7.35	2.67
315.0	101.73	69.01	54.32	40.96	29.38	15.81	11.13	7.12	2.67
337.5	99.95	67.90	53.87	40.51	28.49	15.14	11.35	6.90	2.45
360.0	102.18	67.01	52.98	39.85	28.05	14.92	10.91	6.90	2.67

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	0.22	0.22	0.22
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	0.22	0.00
90.0	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
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	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.22	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	0.45	0.22	0.22	0.22	0.22	0.45	0.45	0.45	0.67
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.45
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.22
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22

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	0.22	0.45	0.67	0.89	1.11	1.56	1.34	1.78	2.00
22.5	0.22	0.22	0.67	0.89	0.89	1.34	1.56	1.78	2.00
45.0	0.00	0.45	0.67	0.89	1.34	1.11	1.34	1.78	2.00
67.5	0.22	0.45	0.45	0.89	1.34	1.56	1.56	1.78	1.78
90.0	0.00	0.45	0.45	0.89	1.11	1.34	1.34	2.00	2.00
112.5	0.00	0.22	0.45	0.45	0.89	1.11	1.34	1.56	1.78
135.0	0.00	0.00	0.67	0.45	0.89	1.11	1.34	1.56	1.78
157.5	0.00	0.00	0.22	0.45	0.89	1.11	1.11	1.56	1.56
180.0	0.00	0.22	0.22	0.45	0.89	1.34	1.56	1.56	1.78
202.5	0.00	0.00	0.22	0.67	1.11	1.34	1.56	1.78	1.78
225.0	0.00	0.00	0.22	0.67	0.89	1.11	1.56	1.56	1.78
247.5	0.00	0.00	0.45	0.67	0.89	1.34	1.34	1.56	1.56
270.0	0.67	1.11	1.11	1.56	2.00	2.00	2.45	2.23	2.67
292.5	0.45	0.45	0.89	0.89	1.34	1.78	1.56	1.78	2.00
315.0	0.22	0.45	0.67	0.89	1.34	1.56	1.56	1.78	2.00
337.5	0.22	0.22	0.67	0.89	1.11	1.56	1.78	1.56	1.78
360.0	0.22	0.45	0.67	0.89	1.11	1.56	1.34	1.78	2.00

C/γ(°)	180.0
0.0	1.96
22.5	1.96
45.0	1.96
67.5	1.96
90.0	1.96
112.5	1.96
135.0	1.96
157.5	1.96
180.0	1.96
202.5	1.96
225.0	1.96
247.5	1.96
270.0	1.96
292.5	1.96
315.0	1.96
337.5	1.96
360.0	1.96