



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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Client:

LumCAT:LRG6-5CCT(4000K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.06

LampCAT:

Current(A): 0.1220

Lamp flux(lm): -1.0

Power (W): 14.47

Number of Lamps: 1

PF: 0.9851

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1564.50, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 108.14

Central intensity(cd): 2567.673, Maximum intensity(cd): 2606.834

Angle of maximum intensity: C=202.5 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=42.3

[C90/270]Total=39.8

Field angle(10%Imax): [C0/180]Total=76.6

[C90/270]Total=72.9

Maximum s/h(1/2): C0_180=0.71 C90_270=0.65

Maximum s/h(1/4): C0_180=0.79 C90_270=0.68

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.10%

Down flux rate of LUM(%): 99.90%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.051%

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

Date:
Humidity(%): 58%

Operator: Jasper

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	2580.482	0.000	0	0.00%	0.00%
5.0	2443.172	60.056	60.056	0.00%	3.84%
10.0	2083.256	161.925	221.981	0.00%	14.19%
15.0	1678.155	223.124	445.105	0.00%	28.45%
20.0	1307.347	246.047	691.153	0.00%	44.18%
25.0	951.210	236.881	928.033	0.00%	59.32%
30.0	615.348	198.249	1126.283	0.00%	71.99%
35.0	358.638	143.426	1269.709	0.00%	81.16%
40.0	206.508	94.290	1363.999	0.00%	87.18%
45.0	128.063	61.948	1425.948	0.00%	91.14%
50.0	77.452	41.527	1467.475	0.00%	93.80%
55.0	54.540	28.700	1496.175	0.00%	95.63%
60.0	41.419	22.181	1518.355	0.00%	97.05%
65.0	29.317	17.196	1535.551	0.00%	98.15%
70.0	17.772	11.923	1547.474	0.00%	98.91%
75.0	10.498	7.389	1554.863	0.00%	99.38%
80.0	6.772	4.621	1559.484	0.00%	99.68%
85.0	2.815	2.605	1562.089	0.00%	99.85%
90.0	0.367	0.871	1562.96	0.00%	99.90%
95.0	0.014	0.104	1563.065	0.00%	99.91%
100.0	0.000	0.004	1563.068	0.00%	99.91%
105.0	0.027	0.007	1563.076	0.00%	99.91%
110.0	0.027	0.014	1563.09	0.00%	99.91%
115.0	0.027	0.014	1563.104	0.00%	99.91%
120.0	0.055	0.020	1563.123	0.00%	99.91%
125.0	0.054	0.025	1563.149	0.00%	99.91%
130.0	0.082	0.030	1563.178	0.00%	99.92%
135.0	0.136	0.044	1563.222	0.00%	99.92%
140.0	0.258	0.073	1563.295	0.00%	99.92%
145.0	0.395	0.109	1563.404	0.00%	99.93%
150.0	0.639	0.152	1563.556	0.00%	99.94%
155.0	0.898	0.194	1563.751	0.00%	99.95%
160.0	1.197	0.220	1563.97	0.00%	99.97%
165.0	1.373	0.212	1564.182	0.00%	99.98%
170.0	1.496	0.170	1564.352	0.00%	99.99%
175.0	1.577	0.110	1564.462	0.00%	100.00%
180.0	1.577	0.038	1564.5	0.00%	100.00%

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

Date:
Humidity(%): 58%

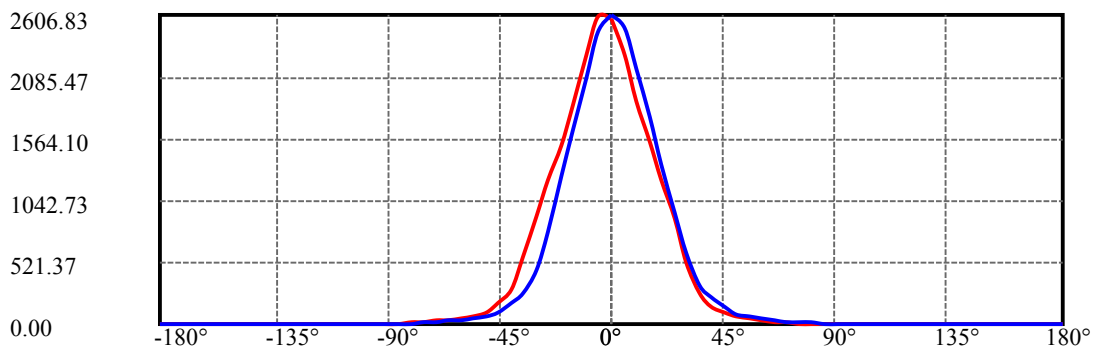
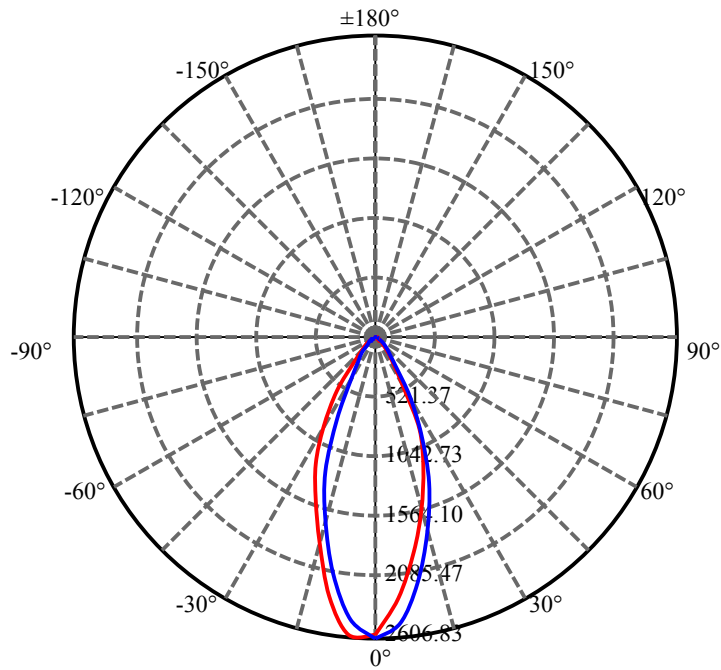
Operator: Jasper

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1126.28	N.A.	71.99%
0-40	1364.00	N.A.	87.18%
0-60	1518.36	N.A.	97.05%
0-90	1562.96	N.A.	99.90%
0-120	1563.12	N.A.	99.91%
0-180	1564.50	N.A.	100.00%
60-90	44.61	N.A.	2.85%
90-120	0.16	N.A.	0.01%
90-130	0.22	N.A.	0.01%
90-150	0.60	N.A.	0.04%
90-180	1.50	N.A.	0.10%
0-34.37	1251.60	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	221.98
10-20	469.17
20-30	435.13
30-40	237.72
40-50	103.48
50-60	50.88
60-70	29.12
70-80	12.01
80-90	3.48
90-100	0.11
100-110	0.02
110-120	0.03
120-130	0.05
130-140	0.12
140-150	0.26
150-160	0.41
160-170	0.38
170-180	0.11

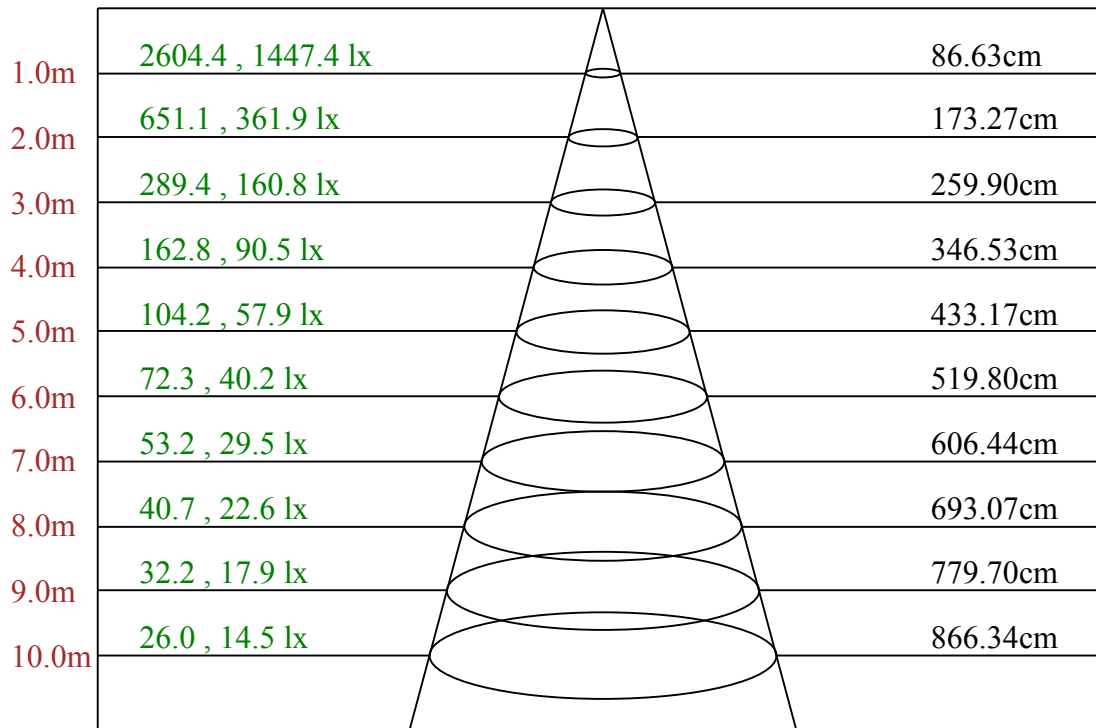


C0/C180: —

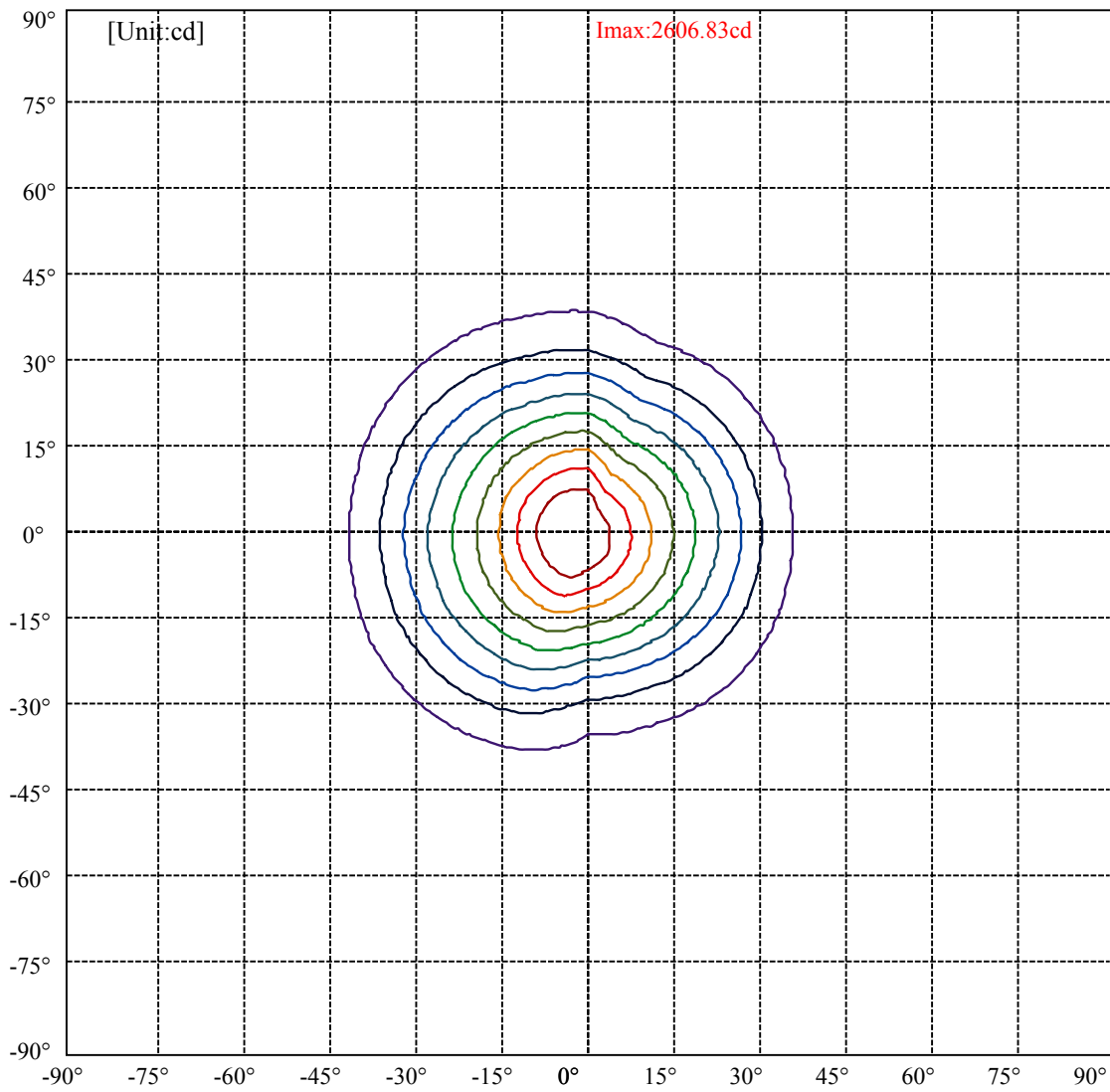
C90/C270: —

Field angle(10%I_{max}):C0/180Left:41.3 Right:35.3
 :C90/270Left:35.0 Right:37.9

Beam Angle(50%I_{max}):C0/180Left:23.6 Right:18.7
 :C90/270Left:19.3 Right:20.5



Max , Ave Beam angle of C202.5 plane 46.84



(10%Imax) 260.444	—
(20%Imax) 520.888	—
(30%Imax) 781.332	—
(40%Imax) 1041.78	—
(50%Imax) 1302.22	—
(60%Imax) 1562.66	—
(70%Imax) 1823.11	—
(80%Imax) 2083.55	—
(90%Imax) 2344	—

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	2567.67	2267.22	1879.96	1539.69	1208.13	887.22	511.05	266.95	148.81
22.5	2559.41	2259.39	1877.78	1516.85	1174.84	847.84	501.05	263.03	149.68
45.0	2564.63	2263.30	1867.99	1478.34	1118.49	784.31	465.15	255.85	155.99
67.5	2581.16	2298.77	1879.74	1462.67	1087.38	732.32	413.15	243.24	164.04
90.0	2604.44	2487.39	2151.26	1744.85	1340.62	943.13	592.42	319.82	218.87
112.5	2599.87	2515.89	2200.65	1774.44	1366.29	975.77	632.89	348.10	226.92
135.0	2590.52	2563.54	2236.76	1793.37	1418.29	1052.79	726.44	424.25	246.28
157.5	2576.16	2588.78	2257.21	1841.88	1467.46	1133.94	821.08	521.28	274.35
180.0	2567.67	2588.12	2270.92	1846.02	1504.45	1208.78	899.84	570.23	287.18
202.5	2559.41	2606.83	2266.13	1854.94	1515.54	1204.43	879.82	557.40	292.19
225.0	2564.63	2588.34	2265.70	1852.33	1475.51	1141.77	821.08	503.22	270.21
247.5	2581.16	2580.73	2257.86	1821.43	1448.53	1086.94	710.34	417.72	238.01
270.0	2604.44	2456.06	2069.02	1639.99	1244.02	782.57	447.53	260.42	173.18
292.5	2599.87	2399.93	1995.48	1583.86	1193.11	766.91	440.13	255.64	157.52
315.0	2590.52	2341.63	1946.53	1551.87	1172.44	806.07	470.37	262.38	153.60
337.5	2576.16	2284.84	1909.11	1547.96	1182.45	864.59	513.23	268.69	147.29
360.0	2567.67	2267.22	1879.96	1539.69	1208.13	887.22	511.05	266.95	148.81
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	94.64	60.70	44.82	33.51	21.76	11.31	8.05	4.13	0.44
22.5	94.42	60.70	45.47	33.51	22.41	11.53	8.27	4.35	0.44
45.0	93.33	60.48	46.34	33.94	22.84	11.75	8.49	4.57	0.44
67.5	94.42	60.92	46.56	35.46	24.15	12.18	9.14	5.00	1.31
90.0	143.81	86.81	58.52	44.82	32.85	21.54	12.18	8.70	4.35
112.5	155.34	90.51	59.61	46.78	34.38	23.06	12.40	8.70	4.57
135.0	165.78	94.21	62.88	48.73	36.12	24.15	13.05	9.14	5.00
157.5	170.35	97.25	66.14	50.47	36.77	25.46	13.05	9.57	5.44
180.0	175.36	99.43	66.14	51.35	37.64	25.67	13.05	9.57	5.66
202.5	170.35	97.25	65.49	50.26	36.33	25.24	13.05	9.14	5.22
225.0	159.47	94.21	62.66	48.30	35.03	23.93	11.97	8.70	5.00
247.5	148.38	90.29	60.05	45.47	33.72	21.97	11.10	8.05	4.13
270.0	100.30	63.53	49.17	36.77	26.11	12.84	9.79	5.44	1.74
292.5	95.29	60.92	47.21	35.03	23.93	11.53	8.49	4.79	0.87
315.0	93.33	60.92	46.12	34.59	22.63	11.31	8.05	4.35	0.44
337.5	94.42	61.14	45.47	33.72	22.41	10.88	7.83	4.13	0.00
360.0	94.64	60.70	44.82	33.51	21.76	11.31	8.05	4.13	0.44
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	0.00	0.22
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.65	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	0.22	0.22	0.00	0.44	0.44	0.22	0.22	0.65	0.44
292.5	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.22
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.22	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	0.22	0.00	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	0.44	0.44	0.44	0.87	1.09	1.31	1.52	1.52	1.52
22.5	0.22	0.44	0.44	0.87	1.09	1.52	1.52	1.74	1.52
45.0	0.22	0.44	0.65	0.65	1.09	1.31	1.52	1.31	1.52
67.5	0.22	0.44	0.65	0.65	1.09	1.31	1.52	1.52	1.74
90.0	0.22	0.22	0.44	0.65	0.65	1.31	1.52	1.52	1.52
112.5	0.00	0.00	0.22	0.44	0.65	1.09	1.31	1.52	1.52
135.0	0.00	0.00	0.00	0.44	0.65	0.87	1.09	1.31	1.31
157.5	0.00	0.00	0.22	0.00	0.65	1.09	0.87	1.31	1.31
180.0	0.00	0.00	0.00	0.44	0.65	1.09	1.09	1.52	1.31
202.5	0.00	0.00	0.22	0.44	0.65	0.87	1.31	1.09	1.31
225.0	0.00	0.00	0.22	0.44	0.65	0.65	1.09	1.31	1.52
247.5	0.00	0.00	0.00	0.44	0.65	0.87	1.09	1.52	1.74
270.0	0.65	0.87	0.65	1.31	1.52	1.74	1.96	2.18	2.18
292.5	0.22	0.44	0.65	0.87	1.09	1.52	1.52	1.74	1.96
315.0	0.00	0.44	0.65	0.87	1.09	1.31	1.52	1.52	1.74
337.5	0.00	0.44	0.87	0.87	1.09	1.31	1.52	1.31	1.52
360.0	0.44	0.44	0.44	0.87	1.09	1.31	1.52	1.52	1.52
C/γ(°)	180.0								
0.0	1.31								
22.5	1.52								
45.0	1.52								
67.5	1.31								
90.0	1.96								
112.5	1.52								
135.0	1.74								
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