Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LRG6-30K
Luminaire:
Report No:
Test No:
LampCAT:
Lamp flux(lm): 1252.2
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 120.06
Current(A): 0.1219
Power (W): 14.4420
PF: 0.987
Ballast type:
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 1252.18
Efficiency(%): 100.00%
Lumens(lm)/Power(W): 86.70
Central intensity(cd): 2055.230
Maximum intensity(cd): 2055.230
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=41.5
[C90/270]Total=40.6
Field angle(10%Imax): [C0/180]Total=75.3
[C90/270]Total=75.0
Maximum s/h(1/2): C0_180=0.74 C90_270=0.58
Maximum s/h(1/4): C0_180=1.06 C90_270=0.64
Up flux rate of lamp(%): 0.51%
Down flux rate of lamp(%): 99.49%
Up flux rate of LUM(%): 0.51%
Down flux rate of LUM(%): 99.49%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.345%

LRG6-30K

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2055.230	.000	.000	.000%	.000%
5.0	1940.825	47.772	47.772	3.815%	3.815%
10.0	1675.222	129.357	177.129	10.331%	14.146%
15.0	1366.956	180.460	357.589	14.412%	28.557%
20.0	1062.240	200.200	557.789	15.988%	44.545%
25.0	752.484	190.331	748.120	15.200%	59.745%
30.0	460.287	153.477	901.597	12.257%	72.002%
35.0	264.643	106.751	1008.348	8.525%	80.527%
40.0	170.165	72.544	1080.893	5.793%	86.321%
45.0	99.831	49.992	1130.885	3.992%	90.313%
50.0	63.919	33.088	1163.973	2.642%	92.955%
55.0	45.840	23.865	1187.838	1.906%	94.861%
60.0	34.551	18.582	1206.420	1.484%	96.345%
65.0	25.181	14.521	1220.941	1.160%	97.505%
70.0	15.060	10.189	1231.130	.814%	98.319%
75.0	9.551	6.433	1237.563	.514%	98.832%
80.0	6.571	4.314	1241.877	.345%	99.177%
85.0	3.344	2.694	1244.571	.215%	99.392%
90.0	.959	1.178	1245.749	.094%	99.486%
95.0	.726	.461	1246.210	.037%	99.523%
100.0	.764	.405	1246.615	.032%	99.555%
105.0	.752	.406	1247.021	.032%	99.588%
110.0	.790	.403	1247.424	.032%	99.620%
115.0	.855	.417	1247.841	.033%	99.653%
120.0	.842	.413	1248.253	.033%	99.686%
125.0	.881	.398	1248.652	.032%	99.718%
130.0	.933	.394	1249.046	.032%	99.749%
135.0	1.050	.401	1249.447	.032%	99.781%
140.0	1.141	.406	1249.852	.032%	99.814%
145.0	1.257	.400	1250.252	.032%	99.846%
150.0	1.517	.408	1250.661	.033%	99.878%
155.0	1.711	.408	1251.069	.033%	99.911%
160.0	1.827	.371	1251.440	.030%	99.941%
165.0	1.944	.311	1251.751	.025%	99.966%
170.0	2.048	.237	1251.988	.019%	99.984%
175.0	2.009	.145	1252.133	.012%	99.996%
180.0	2.196	.050	1252.183	.004%	100.000%

Zonal flux distribution table

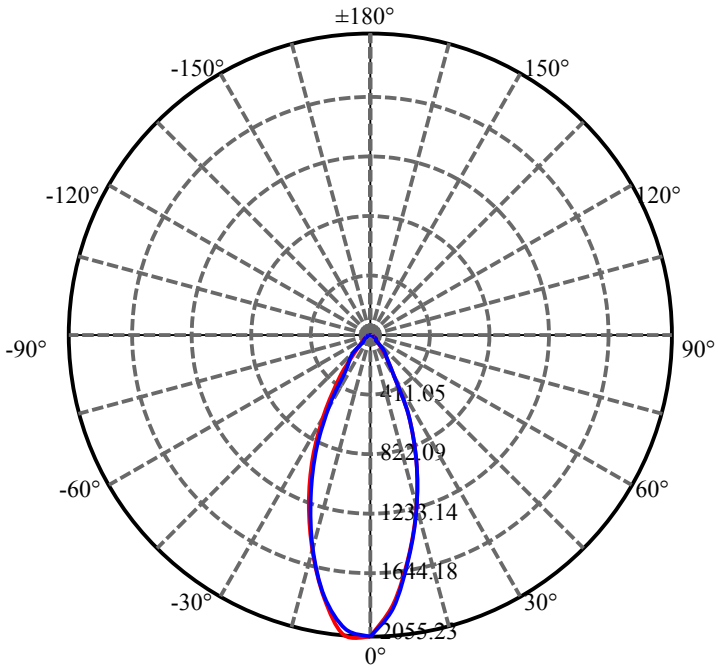
ZONAL LUMEN SUMMARY

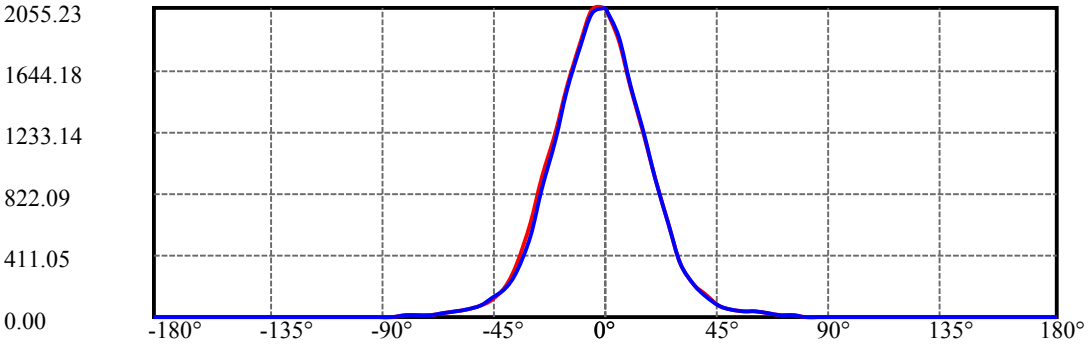
Zone	Lumens	%Lamp	%Fixt
0-30	901.60	72.00%	72.00%
0-40	1080.89	86.32%	86.32%
0-60	1206.42	96.35%	96.35%
0-90	1245.75	99.49%	99.49%
0-120	1248.25	99.69%	99.69%
0-180	1252.18	100.00%	100.00%
60-90	57.91	4.62%	4.62%
90-120	3.68	0.29%	0.29%
90-130	4.48	0.36%	0.36%
90-150	6.09	0.49%	0.49%
90-180	7.56	0.60%	0.60%
0-34.69	1001.75	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	177.13
10-20	380.66
20-30	343.81
30-40	179.30
40-50	83.08
50-60	42.45
60-70	24.71
70-80	10.75
80-90	3.87
90-100	0.87
100-110	0.81
110-120	0.83
120-130	0.79
130-140	0.81
140-150	0.81
150-160	0.78
160-170	0.55
170-180	0.15

Light Distribution Curve [Unit:cd]





C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:39.8 Right:35.5

:C90/270Left:39.5 Right:35.5

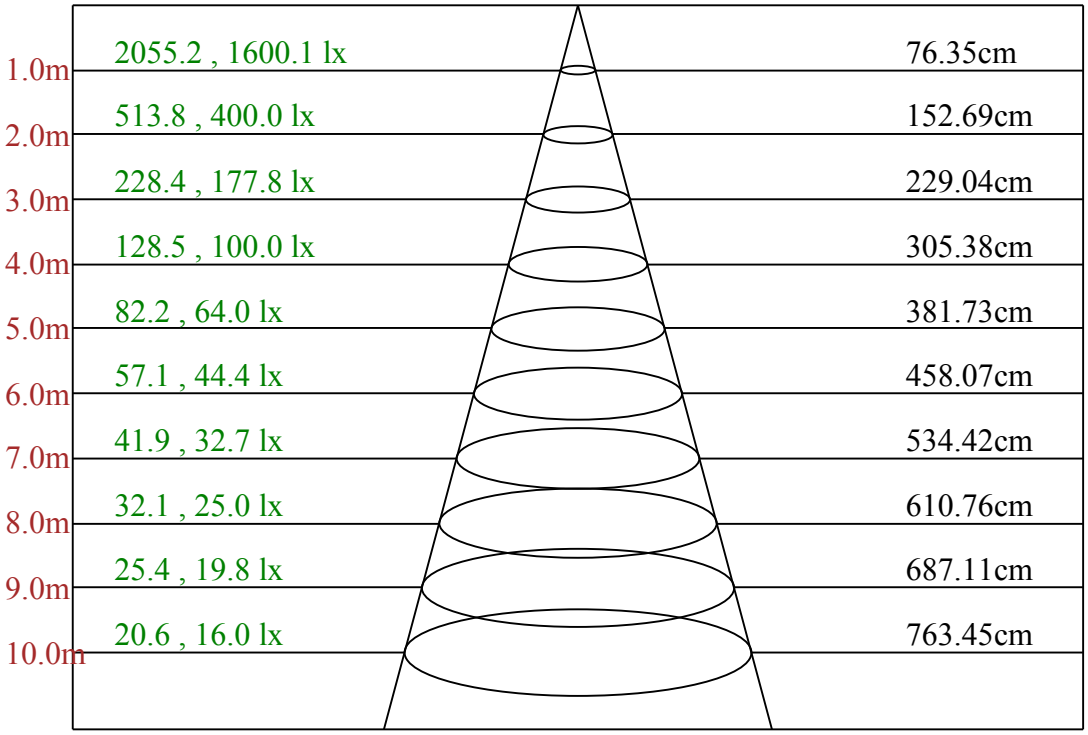
Beam Angle(50%Imax):C0/180Left:23.3 Right:18.2

:C90/270Left:22.3 Right:18.3

Equipment: GMS-3000 Date: Operator: Zac

Temperature(°C): 25 Humidity(%): 58%

Lux distance Curve



Max , Ave

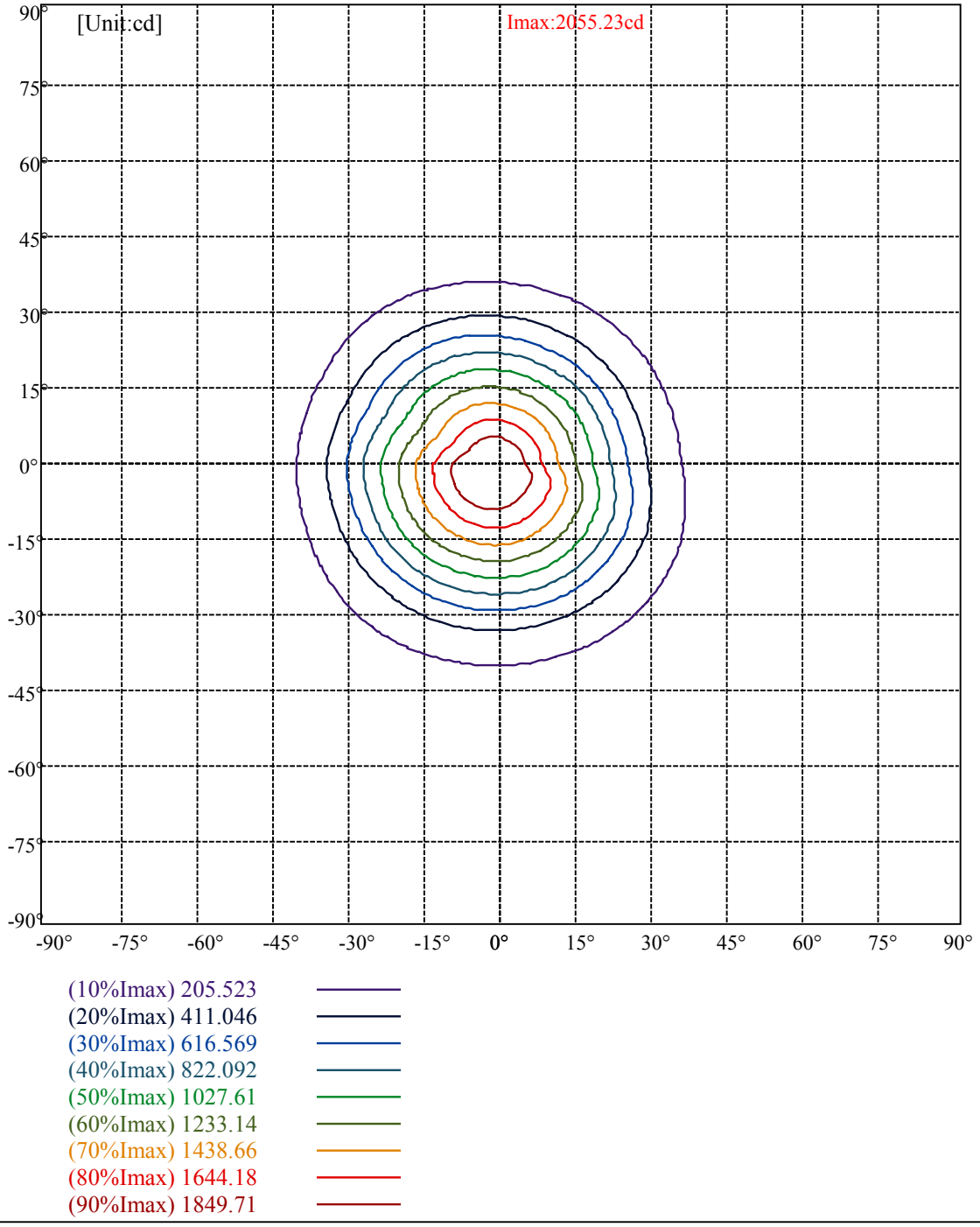
Beam angle of C0plane41.70

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

Date:
Humidity(%): 58%

Operator: Zac

ISO-Intensity(V-H)



(10%Imax) 205.523
(20%Imax) 411.046
(30%Imax) 616.569
(40%Imax) 822.092
(50%Imax) 1027.61
(60%Imax) 1233.14
(70%Imax) 1438.66
(80%Imax) 1644.18
(90%Imax) 1849.71

Equipment: GMS-3000 Date: Operator: Zac
Temperature(°C): 25 Humidity(%): 58%

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	2055.23	1843.02	1528.45	1217.62	922.55	612.96	352.10	212.13	148.06
22.5	2055.23	1837.62	1515.39	1195.64	896.83	567.34	318.09	199.48	143.91
45.0	2055.23	1838.66	1518.50	1187.34	882.52	553.86	308.97	192.02	139.35
67.5	2055.23	1831.61	1525.76	1192.53	882.32	563.40	324.93	199.27	139.55
90.0	2055.23	1860.43	1544.00	1226.95	921.30	607.57	352.51	212.13	143.29
112.5	2055.23	1894.86	1586.93	1276.92	981.44	680.97	399.38	228.10	148.06
135.0	2055.23	1916.01	1620.52	1321.30	1021.25	736.54	448.11	255.47	156.97
157.5	2055.23	1945.87	1646.02	1340.58	1063.34	776.15	489.58	276.41	165.06
180.0	2055.23	2045.61	1820.41	1526.38	1222.39	928.77	620.63	356.87	198.86
202.5	2055.23	2046.44	1845.30	1548.56	1241.46	923.79	594.50	329.91	198.24
225.0	2055.23	2049.13	1839.28	1534.05	1225.71	907.82	569.41	314.57	201.35
247.5	2055.23	2036.48	1823.73	1520.57	1199.37	877.76	554.69	313.94	199.27
270.0	2055.23	2014.71	1803.83	1500.66	1176.98	853.91	538.72	303.58	194.50
292.5	2055.23	1987.55	1761.11	1465.00	1158.11	853.91	520.89	288.44	189.94
315.0	2055.23	1961.00	1726.07	1430.37	1120.99	812.02	499.12	285.33	182.06
337.5	2055.23	1944.21	1698.28	1386.82	1079.31	782.99	472.99	266.67	174.18
360.0	2055.23	1843.02	1528.45	1217.62	922.55	612.96	352.10	212.13	148.06

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	80.46	53.71	43.13	32.56	23.43	13.06	9.33	6.22	2.70
22.5	78.38	53.50	43.13	32.14	22.81	12.23	9.33	6.22	2.90
45.0	77.97	53.50	42.30	31.93	22.81	12.23	9.12	5.81	2.28
67.5	80.25	54.12	42.51	31.73	22.60	12.03	8.92	5.60	2.28
90.0	82.12	54.74	42.92	32.35	22.60	11.82	8.71	5.81	2.07
112.5	85.43	55.57	43.55	32.56	23.02	11.82	8.92	5.39	2.49
135.0	87.71	56.82	44.38	33.18	23.22	12.23	8.92	5.81	2.49
157.5	90.62	57.85	44.79	33.18	23.85	12.86	8.92	5.81	2.49
180.0	110.32	70.71	49.35	36.70	26.96	16.59	9.75	6.64	3.73
202.5	116.74	74.65	49.14	36.50	27.58	17.42	9.75	6.84	3.94
225.0	119.85	75.48	48.73	36.91	27.37	18.04	10.16	7.05	4.36
247.5	122.34	75.06	48.73	37.12	27.58	18.87	9.95	7.26	4.36
270.0	122.34	75.89	48.52	36.91	27.58	18.46	9.95	7.67	4.36
292.5	121.31	74.24	48.11	36.91	27.58	18.25	10.16	7.88	4.56
315.0	114.26	70.30	47.49	36.29	27.16	17.83	10.37	7.67	4.36
337.5	107.21	66.56	46.66	35.87	26.75	17.21	10.58	7.47	4.15
360.0	80.46	53.71	43.13	32.56	23.43	13.06	9.33	6.22	2.70

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.42	0.42	0.62	0.62	0.62	0.42	0.62	0.83	0.83
22.5	0.62	0.62	0.62	0.62	0.62	0.83	1.04	0.83	1.04
45.0	0.83	0.83	0.83	0.62	0.83	0.83	0.83	1.04	0.83
67.5	0.42	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.83
90.0	0.83	0.62	0.62	0.83	0.62	0.62	0.62	0.62	0.62
112.5	0.62	0.62	0.83	0.62	0.62	0.62	0.83	0.62	1.04
135.0	0.62	0.83	0.62	0.62	0.62	0.62	0.83	0.62	0.83
157.5	0.62	0.62	0.62	0.62	0.83	0.62	0.83	0.83	0.83
180.0	0.83	0.83	0.83	0.62	0.83	1.04	0.62	1.04	0.83
202.5	1.24	0.83	1.04	0.83	1.04	1.04	0.83	1.04	0.83
225.0	1.24	0.83	0.62	0.83	1.04	1.04	1.04	1.04	1.04
247.5	1.66	0.62	0.83	1.04	0.83	1.04	0.83	1.04	1.04
270.0	1.45	0.83	1.04	0.62	0.83	1.24	0.83	1.04	1.24
292.5	1.45	0.83	1.04	1.04	0.83	1.04	1.04	0.83	1.04
315.0	1.24	0.83	0.83	0.83	1.04	1.04	0.83	1.04	1.04
337.5	1.24	0.83	0.62	1.04	0.83	1.04	1.24	1.04	1.04
360.0	0.42	0.42	0.62	0.62	0.62	0.42	0.62	0.83	0.83

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	0.83	1.04	1.45	1.45	1.66	1.66	1.87	2.07	1.66
22.5	1.04	1.04	1.04	1.45	1.87	1.87	1.87	2.07	1.87
45.0	1.04	1.04	1.24	1.66	1.87	2.07	2.07	1.87	2.28
67.5	1.04	1.04	1.24	1.24	1.66	1.87	1.66	2.07	1.87
90.0	1.04	1.04	1.45	1.45	1.66	1.87	1.87	2.07	2.07
112.5	1.24	1.24	1.24	1.66	1.66	1.87	2.07	2.07	2.07
135.0	1.04	1.24	1.24	1.24	1.87	1.87	2.07	2.07	2.07
157.5	0.62	1.24	1.24	1.45	1.66	1.87	1.87	1.87	2.07
180.0	1.04	1.24	1.04	1.45	1.87	1.66	2.07	1.87	1.87
202.5	1.04	1.04	1.45	1.66	1.66	1.87	1.87	2.07	2.07
225.0	1.04	1.24	1.24	1.66	1.45	1.87	2.07	2.07	2.07
247.5	1.24	1.04	1.04	1.66	1.66	1.87	2.07	2.07	1.87
270.0	1.24	1.04	1.45	1.45	1.66	1.66	1.87	2.07	2.07
292.5	1.04	1.24	1.24	1.45	1.66	1.87	1.87	2.07	1.87
315.0	1.04	1.24	1.24	1.45	1.87	1.66	1.87	2.28	2.07
337.5	1.24	1.24	1.24	1.87	1.66	1.87	2.07	2.07	2.28
360.0	0.83	1.04	1.45	1.45	1.66	1.66	1.87	2.07	1.66

C/γ(°)	180.0
0.0	2.20
22.5	2.20
45.0	2.20
67.5	2.20
90.0	2.20
112.5	2.20
135.0	2.20
157.5	2.20
180.0	2.20
202.5	2.20
225.0	2.20
247.5	2.20
270.0	2.20
292.5	2.20
315.0	2.20
337.5	2.20
360.0	2.20