Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LRG6-40K
Luminaire:
Report No:
Test No:
LampCAT:
Lamp flux(lm): 1306.2
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 120.01
Current(A): 0.1228
Power (W): 14.5630
PF: 0.9882
Ballast type:
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 1306.20
Efficiency(%): 100.00%
Lumens(lm)/Power(W): 89.69
Central intensity(cd): 2150.378
Maximum intensity(cd): 2150.378
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=42.3
[C90/270]Total=40.7
Field angle(10%Imax): [C0/180]Total=76.8
[C90/270]Total=75.7
Maximum s/h(1/2): C0_180=0.66 C90_270=0.64
Maximum s/h(1/4): C0_180=0.95 C90_270=0.68
Up flux rate of lamp(%): 0.48%
Down flux rate of lamp(%): 99.52%
Up flux rate of LUM(%): 0.48%
Down flux rate of LUM(%): 99.52%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.378%

LRG6-40K

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2150.378	.000	.000	.000%	.000%
5.0	2026.425	49.932	49.932	3.823%	3.823%
10.0	1745.364	134.929	184.861	10.330%	14.153%
15.0	1423.497	187.975	372.836	14.391%	28.544%
20.0	1116.761	209.353	582.189	16.028%	44.571%
25.0	794.479	200.454	782.643	15.346%	59.917%
30.0	478.005	161.034	943.677	12.328%	72.246%
35.0	273.121	110.609	1054.285	8.468%	80.714%
40.0	180.283	75.647	1129.932	5.791%	86.505%
45.0	101.557	52.185	1182.117	3.995%	90.500%
50.0	62.884	33.228	1215.344	2.544%	93.044%
55.0	48.196	24.153	1239.497	1.849%	94.893%
60.0	35.708	19.394	1258.891	1.485%	96.378%
65.0	26.278	15.069	1273.960	1.154%	97.532%
70.0	15.654	10.617	1284.578	.813%	98.345%
75.0	10.074	6.725	1291.302	.515%	98.859%
80.0	6.962	4.558	1295.861	.349%	99.208%
85.0	3.582	2.865	1298.725	.219%	99.428%
90.0	.738	1.183	1299.908	.091%	99.518%
95.0	.738	.404	1300.312	.031%	99.549%
100.0	.751	.404	1300.716	.031%	99.580%
105.0	.764	.405	1301.122	.031%	99.611%
110.0	.791	.407	1301.529	.031%	99.642%
115.0	.831	.411	1301.939	.031%	99.674%
120.0	.791	.394	1302.334	.030%	99.704%
125.0	.831	.375	1302.709	.029%	99.733%
130.0	.925	.382	1303.091	.029%	99.762%
135.0	.952	.379	1303.470	.029%	99.791%
140.0	1.167	.392	1303.863	.030%	99.821%
145.0	1.274	.407	1304.270	.031%	99.852%
150.0	1.475	.405	1304.675	.031%	99.883%
155.0	1.704	.402	1305.078	.031%	99.914%
160.0	1.865	.374	1305.452	.029%	99.943%
165.0	1.985	.317	1305.769	.024%	99.967%
170.0	1.999	.236	1306.005	.018%	99.985%
175.0	2.066	.145	1306.151	.011%	99.996%
180.0	2.096	.050	1306.201	.004%	100.000%

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

Zonal flux distribution table

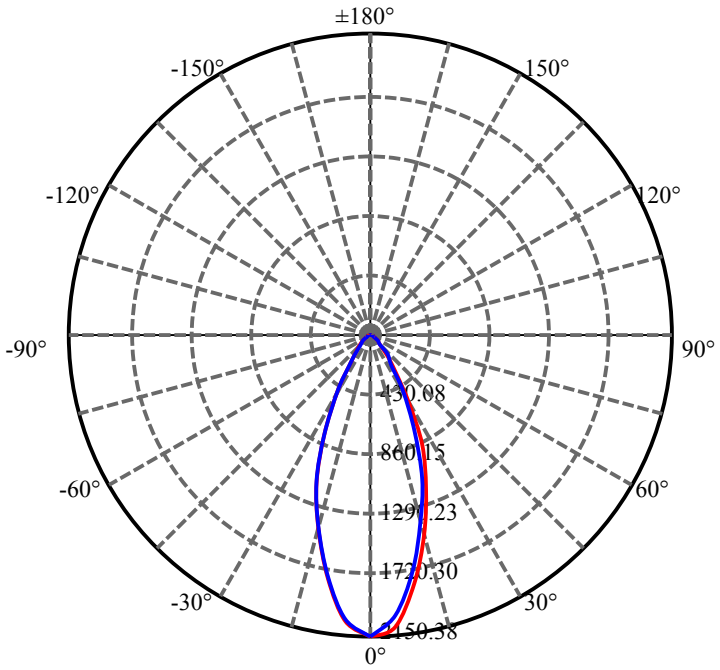
ZONAL LUMEN SUMMARY

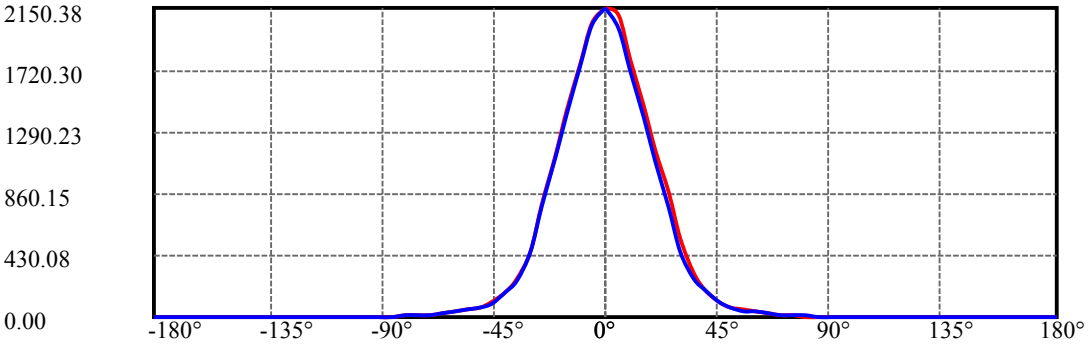
Zone	Lumens	%Lamp	%Fixt
0-30	943.68	72.25%	72.25%
0-40	1129.93	86.51%	86.51%
0-60	1258.89	96.38%	96.38%
0-90	1299.91	99.52%	99.52%
0-120	1302.33	99.70%	99.70%
0-180	1306.20	100.00%	100.00%
60-90	60.41	4.62%	4.62%
90-120	3.61	0.28%	0.28%
90-130	4.37	0.33%	0.33%
90-150	5.95	0.46%	0.46%
90-180	7.43	0.57%	0.57%
0-34.58	1044.96	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	184.86
10-20	397.33
20-30	361.49
30-40	186.26
40-50	85.41
50-60	43.55
60-70	25.69
70-80	11.28
80-90	4.05
90-100	0.81
100-110	0.81
110-120	0.81
120-130	0.76
130-140	0.77
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:37.8 Right:39.0

:C90/270Left:37.7 Right:38.1

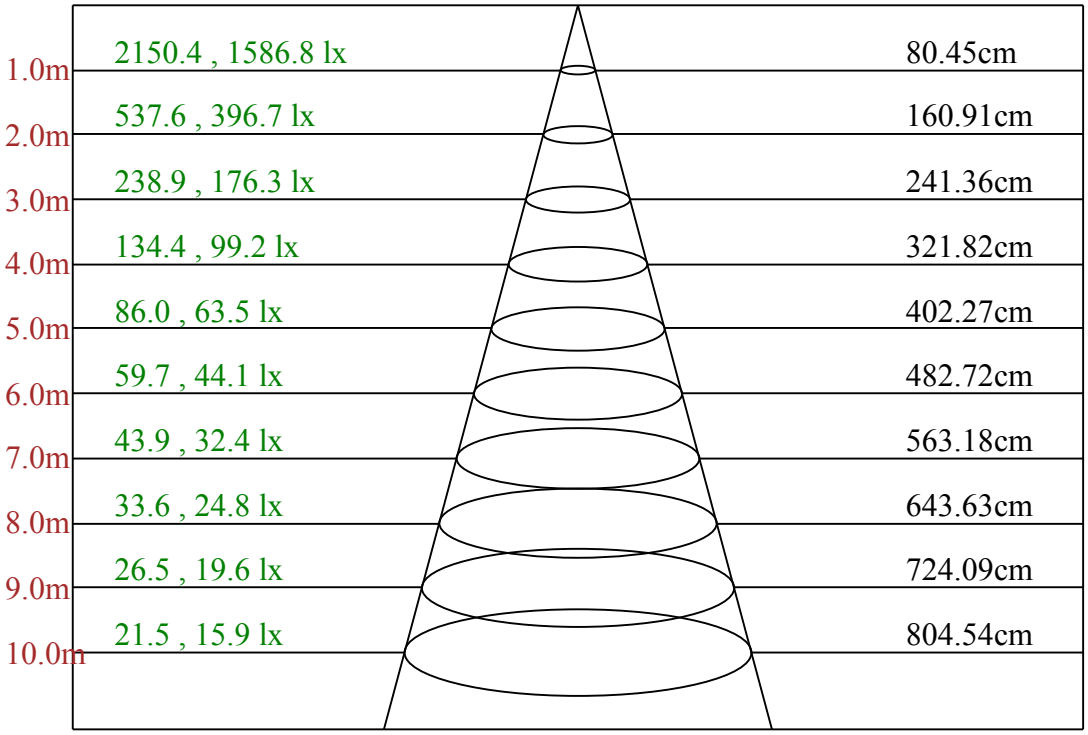
Beam Angle(50%Imax):C0/180Left:20.7 Right:21.5

:C90/270Left:20.5 Right:20.2

Equipment: GMS-3000 Date: Operator: Zac

Temperature(°C): 25 Humidity(%): 58%

Lux distance Curve



Max , Ave

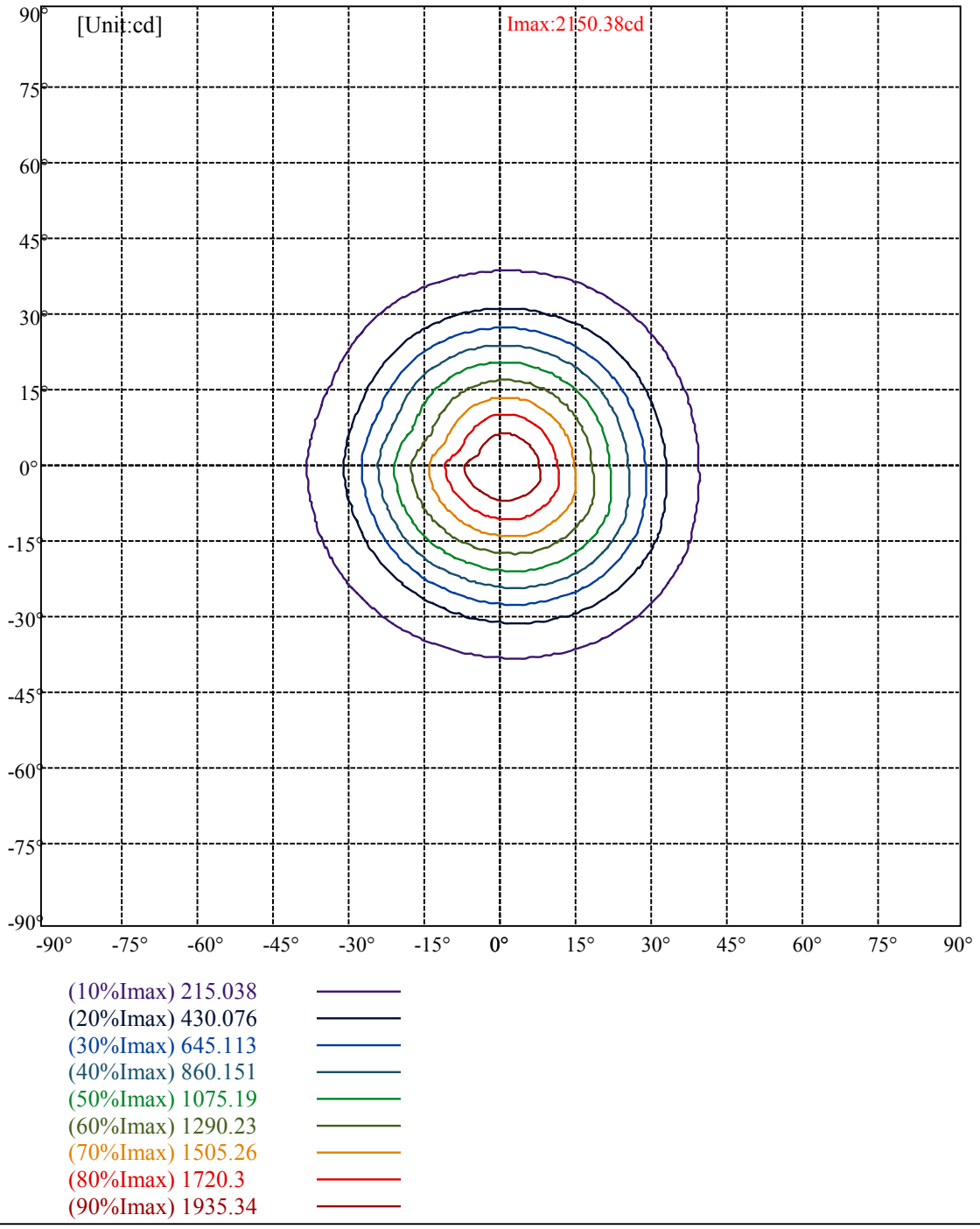
Beam angle of C0plane43.82

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

Date:
Humidity(%): 58%

Operator: Zac

ISO-Intensity(V-H)



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	2150.38	2096.00	1795.53	1471.45	1166.47	863.43	554.16	309.92	189.94
22.5	2150.38	2062.52	1781.58	1458.79	1145.23	835.31	512.52	287.38	185.65
45.0	2150.38	2034.41	1765.70	1439.90	1123.76	802.04	492.56	278.80	185.65
67.5	2150.38	2019.60	1736.08	1419.73	1105.09	775.86	467.66	277.08	186.94
90.0	2150.38	2000.50	1715.91	1390.11	1086.85	761.27	458.86	265.27	183.72
112.5	2150.38	1968.73	1684.57	1363.93	1066.89	746.24	445.99	256.69	176.63
135.0	2150.38	1936.32	1638.00	1318.43	1028.90	720.27	425.81	246.39	168.91
157.5	2150.38	1917.44	1604.30	1277.22	984.69	688.72	402.20	233.30	159.25
180.0	2150.38	2049.43	1767.85	1438.19	1125.91	785.30	456.07	261.41	178.57
202.5	2150.38	2034.41	1753.04	1421.02	1108.31	749.25	420.23	248.32	175.13
225.0	2150.38	2021.74	1728.14	1401.06	1077.41	733.37	403.06	239.52	168.91
247.5	2150.38	2020.89	1729.21	1395.05	1075.90	728.43	423.67	245.10	167.62
270.0	2150.38	2036.77	1748.53	1417.80	1106.38	778.65	458.86	260.12	175.56
292.5	2150.38	2054.80	1791.45	1486.05	1175.92	856.99	515.31	286.09	182.86
315.0	2150.38	2070.89	1825.15	1522.96	1225.07	926.53	585.92	322.36	193.16
337.5	2150.38	2098.36	1860.78	1554.30	1265.41	960.01	625.20	352.20	206.04
360.0	2150.38	2096.00	1795.53	1471.45	1166.47	863.43	554.16	309.92	189.94

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	102.16	63.31	49.15	35.41	25.54	14.17	9.23	6.22	2.58
22.5	101.09	62.24	47.86	34.77	25.76	15.02	9.44	6.44	3.22
45.0	102.80	62.67	47.22	34.98	25.54	15.67	9.66	6.87	3.22
67.5	103.45	62.46	47.22	34.98	25.76	15.88	9.87	6.65	3.43
90.0	105.17	64.17	46.36	34.34	25.97	16.10	9.66	6.87	3.86
112.5	100.66	61.60	46.14	34.34	25.54	15.88	10.09	6.87	3.65
135.0	95.29	59.02	45.72	34.34	25.33	15.45	10.09	6.87	3.65
157.5	89.50	57.30	44.86	33.27	24.90	14.81	10.09	6.87	3.43
180.0	106.67	65.46	49.36	37.34	27.47	16.74	10.73	7.51	3.65
202.5	102.16	63.53	48.93	36.92	27.26	16.31	10.73	7.73	4.08
225.0	97.01	61.60	48.72	36.49	26.40	15.88	10.52	7.30	3.86
247.5	98.30	61.81	48.93	36.06	26.61	15.24	10.30	7.30	3.43
270.0	99.59	62.88	49.15	36.27	26.40	15.24	10.30	6.87	3.86
292.5	102.59	63.74	49.79	36.92	26.61	15.24	10.30	6.87	3.65
315.0	106.24	66.10	50.65	37.13	27.47	16.10	10.09	6.87	3.86
337.5	112.25	68.25	51.08	37.77	27.90	16.74	10.09	7.30	3.86
360.0	102.16	63.31	49.15	35.41	25.54	14.17	9.23	6.22	2.58

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.22	0.00	0.00	0.00	0.22	0.00	0.00	0.22
22.5	0.64	0.43	0.43	0.64	0.64	0.43	0.64	0.64	0.64
45.0	0.64	0.64	0.64	0.86	0.64	0.64	0.64	0.86	0.86
67.5	0.64	0.64	0.43	0.64	0.64	0.64	0.64	0.86	0.86
90.0	0.86	0.64	0.86	0.64	0.64	0.86	0.64	0.64	1.07
112.5	0.64	0.43	0.64	0.64	0.86	0.86	0.64	0.86	1.07
135.0	0.64	0.86	0.86	0.64	0.64	0.86	0.86	0.86	0.86
157.5	0.64	0.43	0.43	0.86	0.86	0.86	0.64	1.07	0.64
180.0	0.64	0.64	0.86	0.64	0.64	0.86	1.07	0.86	1.07
202.5	0.86	0.86	1.07	0.86	1.07	1.07	0.86	0.86	0.86
225.0	1.07	0.86	1.07	1.07	0.86	0.86	0.86	1.07	1.07
247.5	0.86	1.07	0.86	0.86	1.29	0.86	1.07	0.86	1.29
270.0	0.86	1.07	0.86	0.86	1.07	1.07	0.86	1.07	1.07
292.5	0.64	1.07	1.07	1.07	0.86	1.07	1.07	1.07	0.86
315.0	1.07	1.07	1.07	0.86	1.07	1.07	1.07	0.64	1.07
337.5	1.07	0.86	0.86	1.07	0.86	1.07	1.07	1.07	1.29
360.0	0.00	0.22	0.00	0.00	0.00	0.22	0.00	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	0.22	0.43	0.64	0.64	0.64	0.86	1.29	1.29	1.29
22.5	0.64	1.07	1.29	1.29	1.50	1.72	1.93	1.72	2.15
45.0	0.86	1.07	1.29	1.29	1.50	1.93	2.15	2.15	1.93
67.5	0.86	1.29	1.29	1.50	1.50	1.93	1.93	1.93	2.15
90.0	0.86	1.07	1.07	1.50	1.72	1.72	1.93	2.15	2.15
112.5	1.07	1.07	1.07	1.50	1.72	2.15	1.93	2.15	2.15
135.0	0.86	1.07	1.50	1.50	1.93	1.93	1.93	1.93	2.15
157.5	0.86	1.07	1.29	1.72	1.72	1.93	2.15	2.15	2.36
180.0	1.07	1.07	1.29	1.29	1.93	1.93	1.93	2.15	2.15
202.5	1.07	1.29	1.29	1.72	1.72	1.93	2.15	2.15	1.93
225.0	1.07	1.50	1.29	1.72	2.15	1.93	2.15	1.93	2.15
247.5	1.07	1.29	1.29	1.50	1.93	1.93	2.15	1.93	2.15
270.0	1.07	1.29	1.50	1.72	1.93	1.93	1.93	1.93	2.15
292.5	1.29	1.29	1.50	1.72	1.72	1.93	2.15	2.15	2.15
315.0	1.07	1.29	1.50	1.50	1.72	1.93	1.93	2.15	1.93
337.5	1.29	1.50	1.29	1.50	1.93	2.15	2.15	2.15	2.15
360.0	0.22	0.43	0.64	0.64	0.64	0.86	1.29	1.29	1.29

C/γ(°)	180.0
0.0	2.10
22.5	2.10
45.0	2.10
67.5	2.10
90.0	2.10
112.5	2.10
135.0	2.10
157.5	2.10
180.0	2.10
202.5	2.10
225.0	2.10
247.5	2.10
270.0	2.10
292.5	2.10
315.0	2.10
337.5	2.10
360.0	2.10