



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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Client:

LumCAT:

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 119.98

LampCAT:

Current(A): 0.2250

Lamp flux(lm): -1.0

Power (W): 26.82

Number of Lamps: 1

PF: 0.9944

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 3015.92, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 112.45

Central intensity(cd): 958.516, Maximum intensity(cd): 986.260

Angle of maximum intensity: C=90.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=130.2

[C90/270]Total=105.6

Field angle(10%Imax): [C0/180]Total=174.5

[C90/270]Total=158.2

Maximum s/h(1/2): C0_180=1.27 C90_270=1.27

Maximum s/h(1/4): C0_180=1.43 C90_270=1.38

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.39%

Down flux rate of LUM(%): 99.61%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 72.579%

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	958.516	0.000	0	0.00%	0.00%
5.0	957.812	22.909	22.909	0.00%	0.76%
10.0	945.138	68.074	90.984	0.00%	3.02%
15.0	922.358	110.779	201.762	0.00%	6.69%
20.0	890.691	149.421	351.183	0.00%	11.64%
25.0	851.664	182.741	533.924	0.00%	17.70%
30.0	805.833	209.758	743.682	0.00%	24.66%
35.0	756.546	230.071	973.753	0.00%	32.29%
40.0	700.940	243.170	1216.923	0.00%	40.35%
45.0	644.328	249.087	1466.01	0.00%	48.61%
50.0	586.864	248.780	1714.79	0.00%	56.86%
55.0	529.033	242.633	1957.424	0.00%	64.90%
60.0	472.563	231.516	2188.94	0.00%	72.58%
65.0	411.549	214.929	2403.869	0.00%	79.71%
70.0	348.287	192.395	2596.264	0.00%	86.09%
75.0	275.356	163.010	2759.274	0.00%	91.49%
80.0	191.941	125.036	2884.31	0.00%	95.64%
85.0	108.396	81.609	2965.919	0.00%	98.34%
90.0	31.584	38.328	3004.246	0.00%	99.61%
95.0	0.947	8.907	3013.153	0.00%	99.91%
100.0	0.331	0.347	3013.501	0.00%	99.92%
105.0	0.260	0.158	3013.659	0.00%	99.92%
110.0	0.213	0.124	3013.783	0.00%	99.93%
115.0	0.284	0.126	3013.909	0.00%	99.93%
120.0	0.367	0.158	3014.067	0.00%	99.94%
125.0	0.438	0.186	3014.253	0.00%	99.94%
130.0	0.509	0.206	3014.458	0.00%	99.95%
135.0	0.556	0.215	3014.674	0.00%	99.96%
140.0	0.592	0.213	3014.886	0.00%	99.97%
145.0	0.686	0.213	3015.099	0.00%	99.97%
150.0	0.698	0.204	3015.303	0.00%	99.98%
155.0	0.757	0.184	3015.488	0.00%	99.99%
160.0	0.734	0.156	3015.644	0.00%	99.99%
165.0	0.722	0.120	3015.764	0.00%	99.99%
170.0	0.734	0.086	3015.85	0.00%	100.00%
175.0	0.769	0.054	3015.904	0.00%	100.00%
180.0	0.779	0.019	3015.922	0.00%	100.00%

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

Date:
Humidity(%): 59%

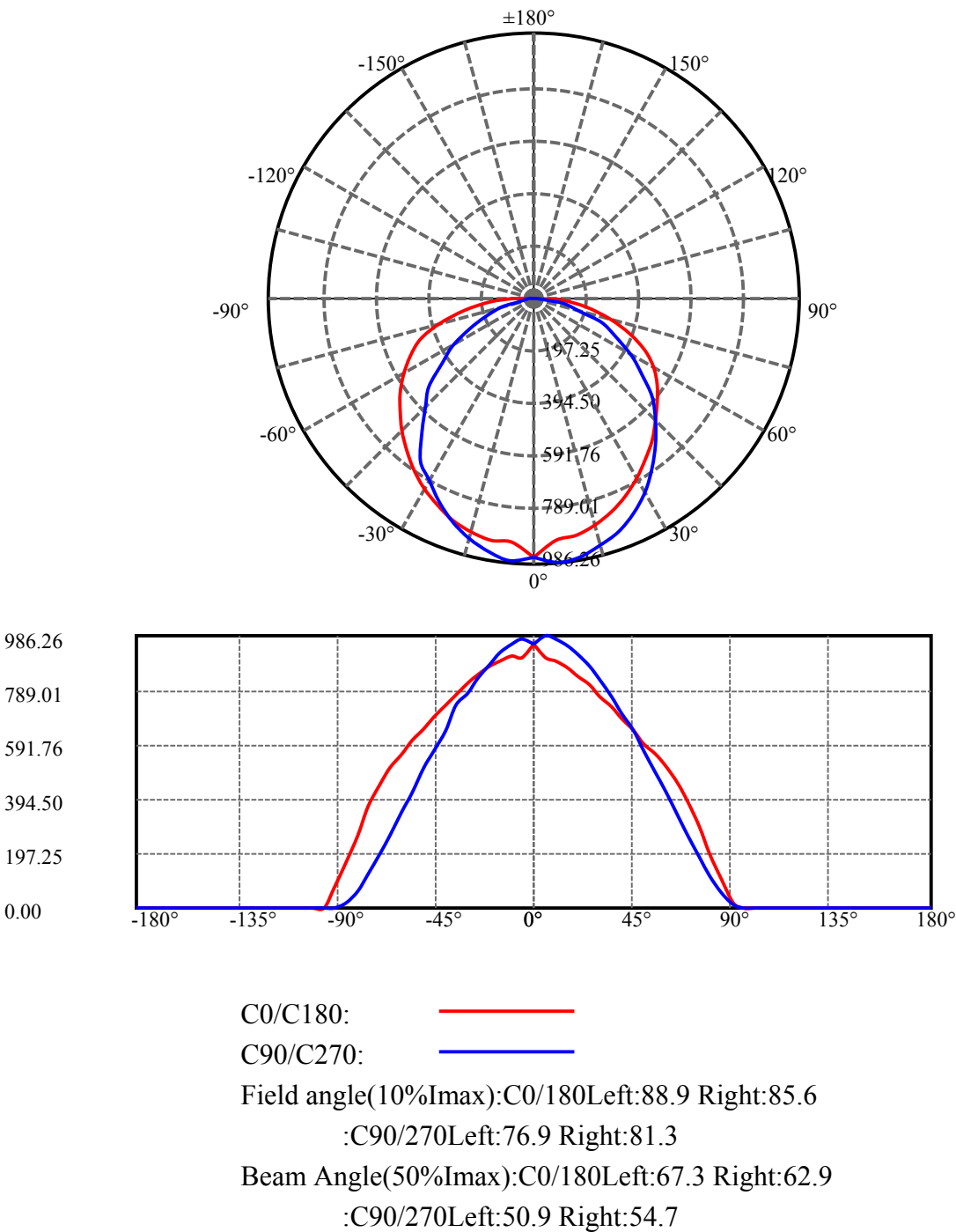
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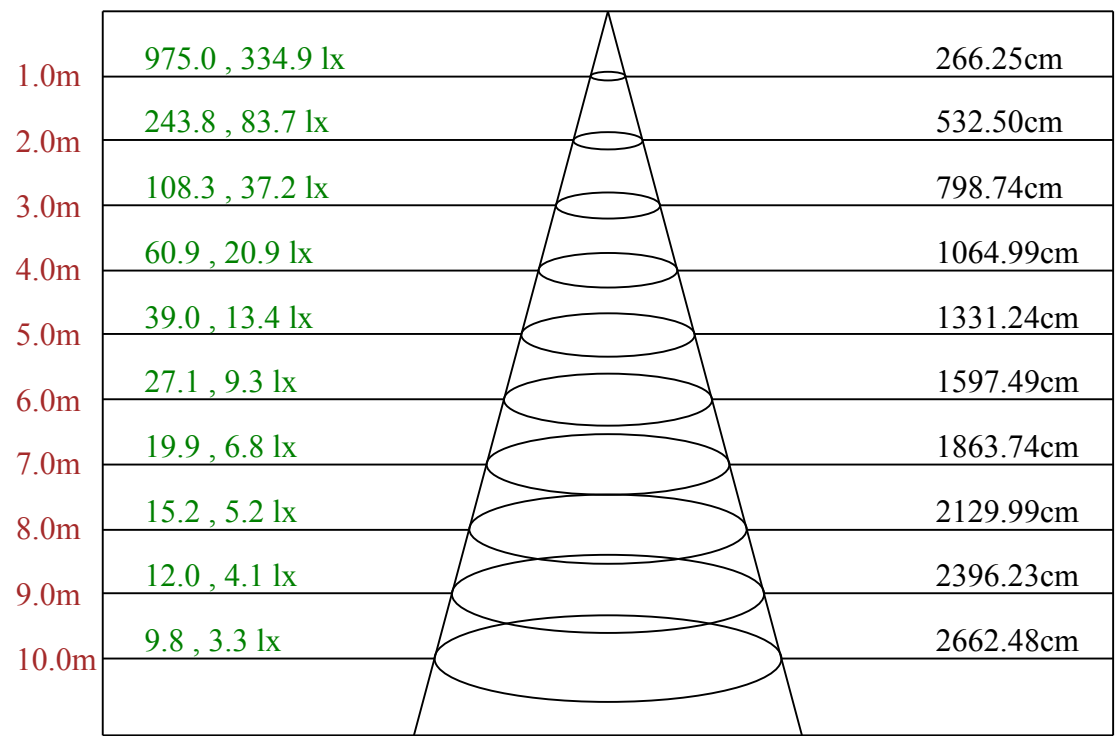
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	743.68	N.A.	24.66%
0-40	1216.92	N.A.	40.35%
0-60	2188.94	N.A.	72.58%
0-90	3004.25	N.A.	99.61%
0-120	3014.07	N.A.	99.94%
0-180	3015.92	N.A.	100.00%
60-90	815.31	N.A.	27.03%
90-120	9.82	N.A.	0.33%
90-130	10.21	N.A.	0.34%
90-150	11.06	N.A.	0.37%
90-180	11.66	N.A.	0.39%
0-65.23	2412.74	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	90.98
10-20	260.20
20-30	392.50
30-40	473.24
40-50	497.87
50-60	474.15
60-70	407.32
70-80	288.05
80-90	119.94
90-100	9.25
100-110	0.28
110-120	0.28
120-130	0.39
130-140	0.43
140-150	0.42
150-160	0.34
160-170	0.21
170-180	0.05





Max , Ave Beam angle of C90 plane 106.17

Intensity data(cd)

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C/ γ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	958.52	904.47	893.48	869.82	840.09	808.47	767.58	726.11	685.02
22.5	958.52	941.58	925.86	901.25	871.52	832.14	790.11	746.18	699.03
45.0	958.52	969.22	951.61	924.91	890.46	847.48	798.44	743.53	688.24
67.5	958.52	964.30	945.93	917.53	878.15	834.22	779.88	719.10	654.16
90.0	958.52	986.26	974.71	952.37	919.99	877.77	827.03	767.95	705.85
112.5	958.52	986.26	975.47	954.07	922.64	881.37	831.38	775.72	712.67
135.0	958.52	980.39	971.30	952.75	924.91	888.37	845.96	795.60	741.26
157.5	958.52	947.26	939.68	923.97	902.57	874.93	834.98	794.65	749.40
180.0	958.52	908.06	909.96	894.43	873.41	847.10	813.96	773.44	735.96
202.5	958.52	940.63	939.30	927.94	901.44	871.71	838.01	793.33	746.37
225.0	958.52	975.85	964.68	944.23	915.83	877.20	831.95	779.88	724.78
247.5	958.52	968.65	955.40	932.11	898.79	856.00	805.82	756.78	699.98
270.0	958.52	975.85	954.45	922.64	881.94	831.76	775.34	732.74	642.23
292.5	958.52	974.90	952.37	920.18	878.34	830.06	773.82	722.32	646.02
315.0	958.52	969.22	950.10	922.07	885.15	840.85	792.00	736.15	689.95
337.5	958.52	932.11	917.91	897.46	865.84	827.22	787.08	741.26	694.11
360.0	958.52	904.47	893.48	869.82	840.09	808.47	767.58	726.11	685.02
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	641.10	596.98	556.65	511.59	455.36	384.17	295.18	198.80	106.60
22.5	647.72	601.72	561.77	514.05	457.63	387.39	301.80	204.11	111.14
45.0	630.31	573.88	525.98	472.40	417.49	353.87	278.89	192.75	99.97
67.5	597.17	520.30	451.19	389.66	322.82	266.97	212.82	144.28	71.38
90.0	641.29	570.10	487.54	422.60	333.99	264.51	184.79	115.31	52.45
112.5	649.81	584.11	508.37	443.81	371.10	312.22	256.17	193.50	120.80
135.0	683.70	626.90	568.20	514.24	464.45	404.61	336.26	250.68	157.53
157.5	705.66	656.06	611.56	562.52	509.70	448.54	369.59	268.86	169.84
180.0	691.46	647.54	607.96	560.06	506.67	446.84	364.85	260.72	165.29
202.5	698.28	650.56	604.18	555.71	502.50	442.86	361.26	260.91	166.24
225.0	678.40	615.35	554.19	502.69	451.19	390.98	322.44	240.27	146.74
247.5	622.73	555.33	499.47	422.03	358.98	294.42	242.54	181.01	108.49
270.0	569.53	510.27	416.92	350.28	265.07	194.45	122.12	59.83	15.90
292.5	575.59	516.89	446.65	372.43	313.54	260.53	200.51	128.75	55.48
315.0	629.36	565.17	510.08	460.47	404.24	342.13	264.13	174.19	83.50
337.5	647.16	598.69	553.81	506.48	450.06	378.11	292.34	197.10	103.00
360.0	641.10	596.98	556.65	511.59	455.36	384.17	295.18	198.80	106.60
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	21.40	0.38	0.57	0.19	0.19	0.57	0.57	0.57	0.57
22.5	19.88	0.57	0.38	0.38	0.38	0.57	0.57	0.57	0.38
45.0	13.82	0.57	0.19	0.38	0.38	0.38	0.38	0.57	0.95
67.5	4.36	0.57	0.38	0.38	0.19	0.19	0.38	0.57	0.76
90.0	10.04	1.14	0.57	0.19	0.19	0.19	0.19	0.38	0.38
112.5	41.84	0.95	0.19	0.00	0.00	0.00	0.19	0.19	0.19
135.0	63.24	0.57	0.00	0.00	0.00	0.00	0.19	0.19	0.19
157.5	72.52	0.38	0.00	0.00	0.00	0.00	0.00	0.38	0.19
180.0	75.36	1.14	0.00	0.00	0.00	0.00	0.19	0.19	0.38
202.5	71.19	1.33	0.00	0.00	0.00	0.00	0.19	0.19	0.38
225.0	56.42	1.52	0.19	0.00	0.00	0.00	0.38	0.19	0.19
247.5	32.38	1.52	0.76	0.19	0.00	0.19	0.00	0.00	0.19
270.0	2.27	1.70	0.95	0.95	0.57	0.76	0.76	1.14	1.14
292.5	2.65	1.14	0.76	0.57	0.57	0.57	0.76	0.76	0.95
315.0	4.17	0.95	0.38	0.57	0.57	0.57	0.57	0.57	0.76
337.5	13.82	0.76	0.00	0.38	0.38	0.57	0.57	0.57	0.57
360.0	21.40	0.38	0.57	0.19	0.19	0.57	0.57	0.57	0.57

Intensity data(cd)									Appendix Page: 7 Total:7
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.76	0.57	0.76	0.76	0.76	0.76	0.76	0.76	0.76
22.5	0.57	0.57	0.95	0.76	0.76	0.76	0.76	0.57	0.76
45.0	0.38	0.76	0.76	0.95	0.95	0.76	0.95	0.76	0.95
67.5	0.57	0.57	0.57	0.57	0.76	0.76	0.76	0.76	0.95
90.0	0.76	0.57	0.57	0.76	0.76	0.95	0.95	0.76	0.76
112.5	0.38	0.38	0.57	0.57	0.76	0.76	0.57	0.95	0.76
135.0	0.38	0.57	0.57	0.57	0.76	0.76	0.57	0.76	0.76
157.5	0.19	0.57	0.57	0.57	0.57	0.76	0.38	0.57	0.76
180.0	0.38	0.19	0.38	0.57	0.38	0.57	0.57	0.57	0.57
202.5	0.38	0.38	0.57	0.57	0.57	0.57	0.57	0.57	0.57
225.0	0.57	0.38	0.38	0.38	0.57	0.57	0.57	0.57	0.57
247.5	0.19	0.38	0.38	0.57	0.76	0.57	0.76	0.76	0.57
270.0	1.14	1.14	1.52	1.33	1.33	1.14	1.14	1.33	1.33
292.5	0.95	0.76	0.95	0.95	0.76	0.76	0.76	0.76	0.76
315.0	0.76	0.95	0.76	0.76	0.76	0.76	0.76	0.76	0.76
337.5	0.57	0.76	0.76	0.57	0.95	0.57	0.76	0.57	0.76
360.0	0.76	0.57	0.76	0.76	0.76	0.76	0.76	0.76	0.76
C/γ(°)	180.0								
0.0	0.78								
22.5	0.78								
45.0	0.78								
67.5	0.78								
90.0	0.78								
112.5	0.78								
135.0	0.78								
157.5	0.78								
180.0	0.78								
202.5	0.78								
225.0	0.78								
247.5	0.78								
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360.0	0.78								