Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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Client:
LumCAT: LD8R-50K-HO
Luminaire:
Report No:
Ballast type:

Test No:	Voltage(V): 120.02
LampCAT:	Current(A): 0.2390
Lamp flux(lm): -1.0	Power (W): 28.38
Number of Lamps: 1	PF: 0.9905
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3006.43, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 105.95
Central intensity(cd): 4942.980, Maximum intensity(cd): 5219.778
Angle of maximum intensity: C=90.0 γ=5.0
Beam Angle(50%Imax): [C0/180]Total=43.8
[C90/270]Total=42.3
Field angle(10%Imax): [C0/180]Total=73.0
[C90/270]Total=72.6
Maximum s/h(1/2): C0_180=0.71 C90_270=0.76
Maximum s/h(1/4): C0_180=0.74 C90_270=0.77
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 : 98.449%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4942.980	0.000	0	0.00%	0.00%
5.0	4780.135	116.237	116.237	0.00%	3.87%
10.0	4300.603	324.847	441.084	0.00%	14.67%
15.0	3552.942	465.867	906.951	0.00%	30.17%
20.0	2764.051	520.609	1427.56	0.00%	47.48%
25.0	2026.791	502.471	1930.03	0.00%	64.20%
30.0	1286.199	419.262	2349.292	0.00%	78.14%
35.0	654.767	285.821	2635.113	0.00%	87.65%
40.0	251.390	151.185	2786.298	0.00%	92.68%
45.0	132.867	71.148	2857.446	0.00%	95.04%
50.0	94.033	45.849	2903.295	0.00%	96.57%
55.0	60.298	33.557	2936.852	0.00%	97.69%
60.0	38.936	22.938	2959.789	0.00%	98.45%
65.0	27.073	16.047	2975.836	0.00%	98.98%
70.0	18.185	11.460	2987.296	0.00%	99.36%
75.0	11.540	7.769	2995.065	0.00%	99.62%
80.0	6.458	4.816	2999.881	0.00%	99.78%
85.0	2.532	2.443	3002.324	0.00%	99.86%
90.0	0.068	0.712	3003.036	0.00%	99.89%
95.0	0.034	0.028	3003.064	0.00%	99.89%
100.0	0.017	0.014	3003.078	0.00%	99.89%
105.0	0.017	0.009	3003.087	0.00%	99.89%
110.0	0.034	0.013	3003.1	0.00%	99.89%
115.0	0.017	0.013	3003.113	0.00%	99.89%
120.0	0.051	0.017	3003.129	0.00%	99.89%
125.0	0.119	0.039	3003.169	0.00%	99.89%
130.0	0.136	0.055	3003.224	0.00%	99.89%
135.0	0.340	0.096	3003.32	0.00%	99.90%
140.0	0.697	0.192	3003.512	0.00%	99.90%
145.0	1.105	0.301	3003.813	0.00%	99.91%
150.0	1.615	0.400	3004.213	0.00%	99.93%
155.0	2.243	0.488	3004.702	0.00%	99.94%
160.0	2.787	0.528	3005.229	0.00%	99.96%
165.0	3.110	0.486	3005.715	0.00%	99.98%
170.0	3.365	0.384	3006.099	0.00%	99.99%
175.0	3.484	0.245	3006.344	0.00%	100.00%
180.0	3.839	0.088	3006.432	0.00%	100.00%

Zonal flux distribution table

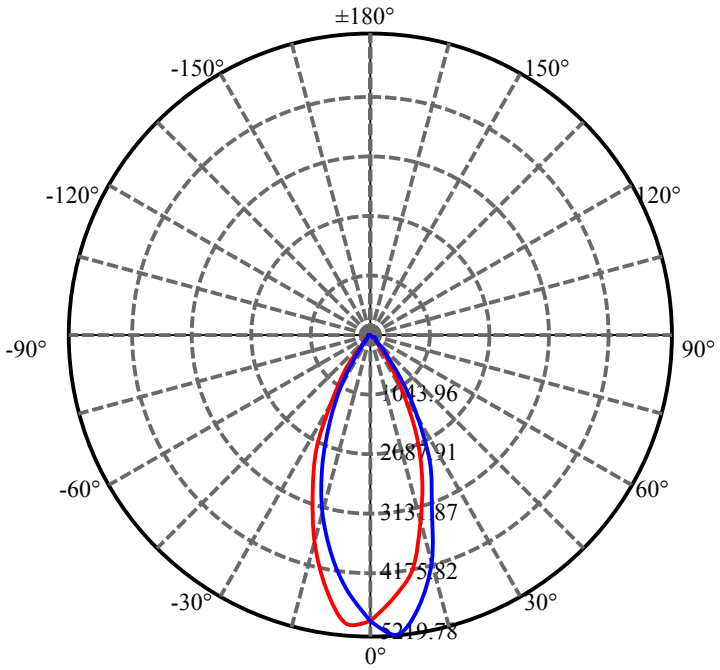
ZONAL LUMEN SUMMARY

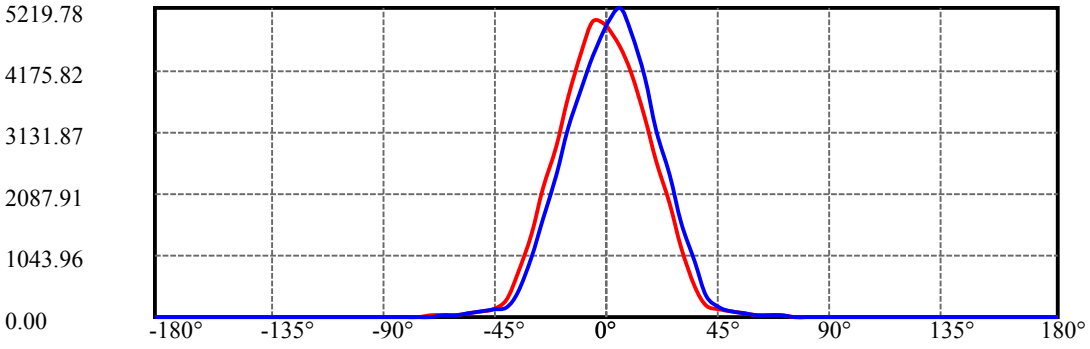
Zone	Lumens	%Lamp	%Fixt
0-30	2349.29	N.A.	78.14%
0-40	2786.30	N.A.	92.68%
0-60	2959.79	N.A.	98.45%
0-90	3003.04	N.A.	99.89%
0-120	3003.13	N.A.	99.89%
0-180	3006.43	N.A.	100.00%
60-90	43.25	N.A.	1.44%
90-120	0.09	N.A.	0.00%
90-130	0.19	N.A.	0.01%
90-150	1.18	N.A.	0.04%
90-180	3.31	N.A.	0.11%
0-30.98	2405.15	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	441.08
10-20	986.48
20-30	921.73
30-40	437.01
40-50	117.00
50-60	56.49
60-70	27.51
70-80	12.59
80-90	3.15
90-100	0.04
100-110	0.02
110-120	0.03
120-130	0.09
130-140	0.29
140-150	0.70
150-160	1.02
160-170	0.87
170-180	0.25

Light Distribution Curve [Unit:cd]





C0/C180:

C90/C270:

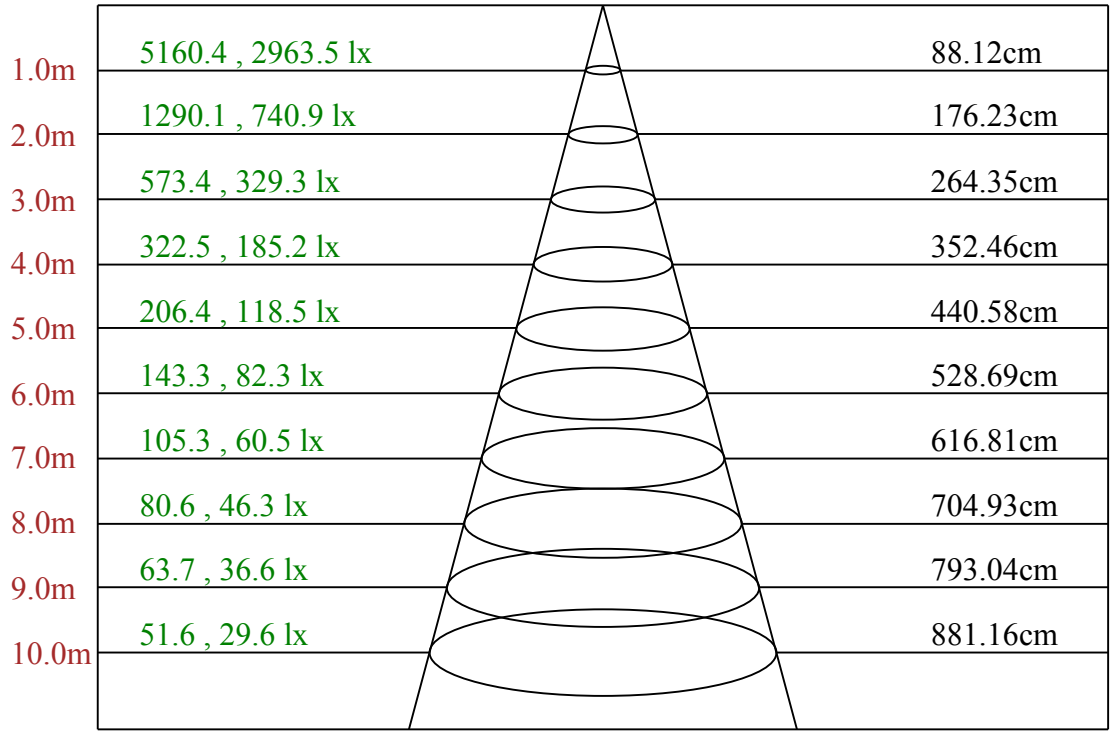
Field angle(10%Imax):C0/180Left:37.6 Right:35.4

:C90/270Left:34.0 Right:38.6

Beam Angle(50%Imax):C0/180Left:22.8 Right:21.0

:C90/270Left:18.7 Right:23.6

Lux distance Curve



Max , Ave

Beam angle of C90 plane 47.55

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	4942.98	4566.08	4120.13	3376.16	2639.80	1899.09	1156.75	525.62	205.03
22.5	4942.98	4690.35	4256.91	3515.38	2741.23	1957.83	1200.53	583.27	231.40
45.0	4942.98	4795.58	4389.88	3598.32	2844.01	2073.66	1275.03	669.47	281.71
67.5	4942.98	4829.85	4432.30	3647.26	2898.12	2101.67	1351.44	730.11	294.76
90.0	4942.98	5219.78	4803.47	4052.97	3145.57	2411.39	1589.92	937.58	355.94
112.5	4942.98	5190.41	4750.17	4002.12	3143.12	2463.87	1634.24	948.73	372.80
135.0	4942.98	5115.91	4652.83	3895.53	3062.64	2405.68	1616.29	988.43	369.81
157.5	4942.98	5056.35	4592.73	3817.21	2969.91	2314.04	1565.72	870.42	329.57
180.0	4942.98	4991.91	4467.10	3711.44	2894.86	2176.99	1401.75	730.65	280.08
202.5	4942.98	4905.17	4349.63	3588.26	2784.46	2003.51	1275.31	631.94	221.62
225.0	4942.98	4814.89	4209.05	3388.13	2620.49	1838.45	1166.27	544.11	196.87
247.5	4942.98	4751.53	4142.16	3370.45	2571.28	1770.74	1106.99	492.45	185.18
270.0	4942.98	4423.32	3866.43	3179.29	2410.30	1668.50	990.88	408.42	163.15
292.5	4942.98	4353.71	3869.15	3179.56	2452.99	1720.17	1012.09	417.67	168.86
315.0	4942.98	4337.13	3918.64	3223.89	2483.17	1785.70	1084.42	471.78	175.93
337.5	4942.98	4440.18	3989.07	3301.11	2562.85	1837.36	1151.58	525.62	189.53
360.0	4942.98	4566.08	4120.13	3376.16	2639.80	1899.09	1156.75	525.62	205.03

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	128.07	91.09	57.10	37.80	26.38	17.95	11.42	6.53	2.72
22.5	132.43	94.08	60.09	39.70	27.74	18.49	11.96	6.80	2.72
45.0	137.05	98.98	65.26	41.60	28.82	19.85	12.78	7.61	3.54
67.5	141.40	100.88	67.44	41.88	29.64	20.12	13.05	7.61	3.54
90.0	159.89	110.13	78.04	45.95	32.09	22.30	14.41	8.43	4.08
112.5	156.08	107.14	75.87	44.87	31.00	20.94	13.60	8.16	3.81
135.0	150.10	103.33	71.52	42.96	29.64	20.12	13.05	7.34	2.99
157.5	143.03	99.80	66.08	40.79	28.55	19.03	12.24	6.80	2.45
180.0	135.42	95.17	62.00	39.43	26.92	18.22	11.15	6.53	2.18
202.5	129.16	91.64	57.10	37.53	26.10	17.40	10.61	5.98	2.18
225.0	124.00	88.37	51.94	35.35	24.47	16.04	9.79	5.17	1.63
247.5	119.10	86.47	50.58	34.81	24.20	15.77	9.79	4.62	1.36
270.0	113.94	81.30	48.67	33.99	23.66	15.50	10.06	4.90	1.63
292.5	114.48	82.39	48.95	34.26	23.93	15.50	9.79	5.17	1.63
315.0	118.83	85.38	50.31	35.35	24.47	16.32	10.06	5.71	1.90
337.5	122.91	88.37	53.84	36.71	25.56	17.40	10.88	5.98	2.18
360.0	128.07	91.09	57.10	37.80	26.38	17.95	11.42	6.53	2.72

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	0.00	0.27	0.00
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	0.27
67.5	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.27	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	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	0.00	0.27	0.27	0.27	0.54	0.27	0.54	0.82	0.82
292.5	0.00	0.27	0.00	0.00	0.00	0.00	0.27	0.27	0.54
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.27
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00

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	0.54	0.82	1.09	1.63	2.18	2.99	3.26	3.54	3.26
22.5	0.54	0.54	1.36	1.90	2.45	2.72	2.99	3.26	3.81
45.0	0.54	0.54	1.09	1.63	2.45	2.72	2.99	3.26	3.26
67.5	0.27	0.82	0.82	1.36	2.18	2.45	3.26	3.54	3.81
90.0	0.00	0.54	0.82	1.36	2.18	2.45	3.26	3.26	3.54
112.5	0.00	0.27	0.82	1.36	1.90	2.45	2.99	2.99	3.26
135.0	0.00	0.54	0.54	1.09	1.90	2.45	2.99	2.99	3.26
157.5	0.00	0.54	0.82	1.09	1.63	2.45	2.99	3.26	3.26
180.0	0.00	0.54	0.82	1.36	1.63	2.45	2.72	3.26	3.26
202.5	0.27	0.27	0.82	1.36	1.90	2.72	2.99	3.54	3.26
225.0	0.27	0.54	0.82	1.36	2.18	2.72	2.99	3.26	3.26
247.5	0.00	0.54	1.09	1.63	2.18	2.72	2.72	3.26	3.54
270.0	1.09	1.90	2.45	2.99	3.26	4.08	4.08	4.35	4.35
292.5	0.82	1.36	1.63	1.90	2.72	3.26	3.26	3.26	3.54
315.0	0.54	0.82	1.36	1.63	2.72	2.99	3.26	3.54	3.81
337.5	0.54	0.54	1.36	2.18	2.45	2.99	2.99	3.26	3.26
360.0	0.54	0.82	1.09	1.63	2.18	2.99	3.26	3.54	3.26

C/γ(°)	180.0
0.0	3.84
22.5	3.84
45.0	3.84
67.5	3.84
90.0	3.84
112.5	3.84
135.0	3.84
157.5	3.84
180.0	3.84
202.5	3.84
225.0	3.84
247.5	3.84
270.0	3.84
292.5	3.84
315.0	3.84
337.5	3.84
360.0	3.84