Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
www.bellingeel.com

Tel:0755-21038430
Address:1Floor, No.1 Building,Meibaohe Industrial Park,Dalang Street,Longhua District,Shenzhen,Guangdong Prov.518101 China

Client:
LumCAT: LD6R-35K-HO
Luminaire:
Report No:
Ballast type:

Test No:	Voltage(V): 120.03
LampCAT:	Current(A): 0.2360
Lamp flux(lm): -1.0	Power (W): 28.03
Number of Lamps: 1	PF: 0.9902
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2808.17, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 100.20
Central intensity(cd): 5090.697, Maximum intensity(cd): 5090.697
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=39.9
[C90/270]Total=42.7
Field angle(10%Imax): [C0/180]Total=69.8
[C90/270]Total=71.4
Maximum s/h(1/2): C0_180=0.66 C90_270=0.69
Maximum s/h(1/4): C0_180=0.69 C90_270=0.72
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 0.00%
Up flux rate of LUM(%): 0.12%
Down flux rate of LUM(%): 99.88%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.289%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5090.697	0.000	0	0.00%	0.00%
5.0	4797.920	118.216	118.216	0.00%	4.21%
10.0	4187.812	321.448	439.664	0.00%	15.66%
15.0	3404.028	450.343	890.006	0.00%	31.69%
20.0	2631.915	497.447	1387.453	0.00%	49.41%
25.0	1897.080	475.008	1862.461	0.00%	66.32%
30.0	1115.710	381.271	2243.732	0.00%	79.90%
35.0	508.638	239.197	2482.929	0.00%	88.42%
40.0	209.529	119.821	2602.749	0.00%	92.68%
45.0	113.828	59.872	2662.621	0.00%	94.82%
50.0	84.482	40.072	2702.693	0.00%	96.24%
55.0	65.215	32.549	2735.242	0.00%	97.40%
60.0	42.392	24.873	2760.115	0.00%	98.29%
65.0	27.669	17.032	2777.147	0.00%	98.90%
70.0	18.563	11.706	2788.853	0.00%	99.31%
75.0	11.805	7.938	2796.791	0.00%	99.59%
80.0	6.590	4.922	2801.713	0.00%	99.77%
85.0	2.549	2.483	2804.197	0.00%	99.86%
90.0	0.050	0.712	2804.908	0.00%	99.88%
95.0	0.017	0.018	2804.927	0.00%	99.88%
100.0	0.017	0.009	2804.936	0.00%	99.88%
105.0	0.017	0.009	2804.945	0.00%	99.89%
110.0	0.017	0.009	2804.954	0.00%	99.89%
115.0	0.017	0.008	2804.962	0.00%	99.89%
120.0	0.067	0.020	2804.982	0.00%	99.89%
125.0	0.067	0.031	2805.013	0.00%	99.89%
130.0	0.134	0.044	2805.057	0.00%	99.89%
135.0	0.252	0.078	2805.135	0.00%	99.89%
140.0	0.621	0.161	2805.297	0.00%	99.90%
145.0	1.107	0.288	2805.585	0.00%	99.91%
150.0	1.627	0.403	2805.987	0.00%	99.92%
155.0	2.214	0.486	2806.473	0.00%	99.94%
160.0	2.649	0.510	2806.983	0.00%	99.96%
165.0	3.119	0.475	2807.459	0.00%	99.97%
170.0	3.337	0.383	2807.842	0.00%	99.99%
175.0	3.488	0.244	2808.086	0.00%	100.00%
180.0	3.693	0.086	2808.172	0.00%	100.00%

Zonal flux distribution table

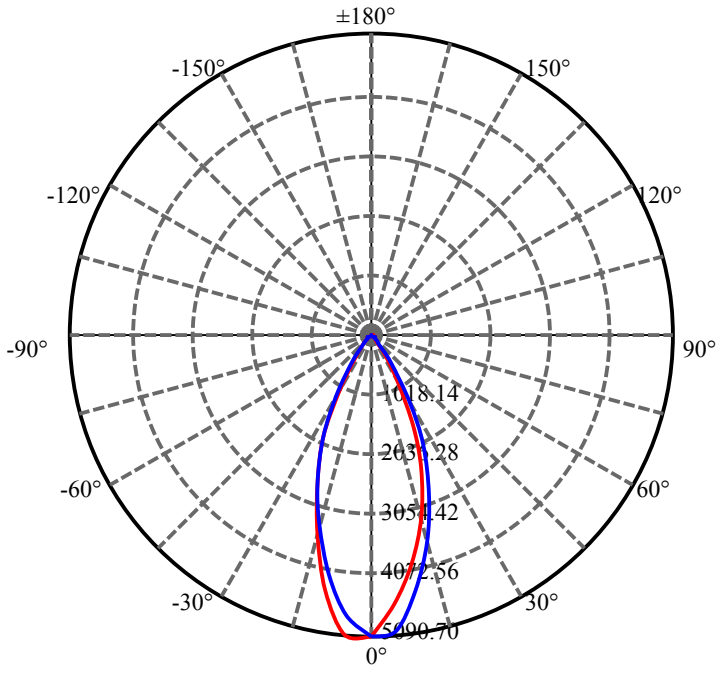
ZONAL LUMEN SUMMARY

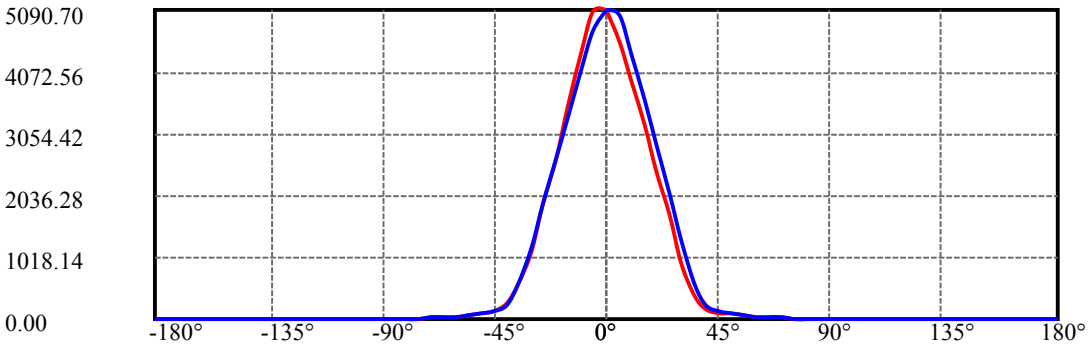
Zone	Lumens	%Lamp	%Fixt
0-30	2243.73	N.A.	79.90%
0-40	2602.75	N.A.	92.68%
0-60	2760.12	N.A.	98.29%
0-90	2804.91	N.A.	99.88%
0-120	2804.98	N.A.	99.89%
0-180	2808.17	N.A.	100.00%
60-90	44.79	N.A.	1.60%
90-120	0.07	N.A.	0.00%
90-130	0.15	N.A.	0.01%
90-150	1.08	N.A.	0.04%
90-180	3.18	N.A.	0.11%
0-30.06	2246.54	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	439.66
10-20	947.79
20-30	856.28
30-40	359.02
40-50	99.94
50-60	57.42
60-70	28.74
70-80	12.86
80-90	3.20
90-100	0.03
100-110	0.02
110-120	0.03
120-130	0.07
130-140	0.24
140-150	0.69
150-160	1.00
160-170	0.86
170-180	0.24

Light Distribution Curve [Unit:cd]





C0/C180:

C90/C270:

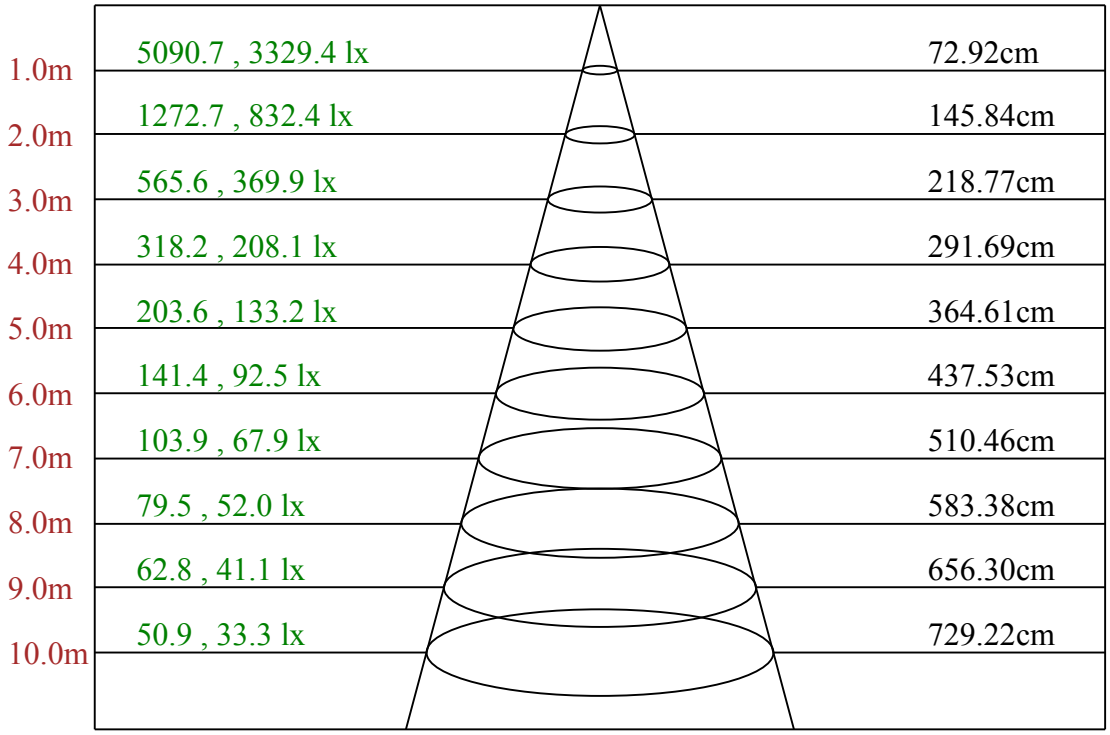
Field angle(10%Imax):C0/180Left:36.0 Right:33.8

:C90/270Left:35.7 Right:35.7

Beam Angle(50%Imax):C0/180Left:20.7 Right:19.2

:C90/270Left:20.7 Right:22.0

Lux distance Curve



Max , Ave

Beam angle of C0 plane 40.06

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	5090.70	4566.27	3907.05	3201.14	2420.64	1707.22	924.58	379.38	153.74
22.5	5090.70	4512.34	3912.41	3232.26	2448.55	1699.17	942.82	377.24	151.06
45.0	5090.70	4414.14	3866.27	3205.70	2489.87	1757.66	971.53	366.50	151.06
67.5	5090.70	4358.61	3880.49	3247.02	2491.21	1777.79	1029.75	396.29	151.06
90.0	5090.70	5008.98	4363.70	3615.67	2863.08	2054.68	1298.06	557.81	226.72
112.5	5090.70	4929.29	4322.65	3523.37	2788.49	2003.97	1262.64	557.27	223.50
135.0	5090.70	4963.36	4363.97	3544.30	2738.85	1947.89	1163.64	532.58	229.94
157.5	5090.70	5024.00	4392.68	3532.50	2652.73	1937.69	1100.32	531.51	227.52
180.0	5090.70	5062.64	4392.14	3499.76	2645.48	1907.91	1106.22	574.98	238.79
202.5	5090.70	5047.34	4437.76	3548.59	2683.58	1960.23	1173.83	615.76	245.23
225.0	5090.70	5054.86	4442.05	3579.18	2778.02	2108.60	1265.59	650.64	253.01
247.5	5090.70	5023.73	4416.02	3648.67	2824.98	2146.44	1327.84	719.86	270.99
270.0	5090.70	4753.01	4119.01	3325.90	2657.29	1899.06	1171.69	556.73	236.11
292.5	5090.70	4735.84	4136.99	3284.85	2593.43	1895.30	1126.61	494.22	229.94
315.0	5090.70	4699.89	4097.55	3273.05	2556.94	1830.91	1033.78	423.12	196.67
337.5	5090.70	4612.42	3954.27	3202.48	2477.52	1718.76	952.48	404.34	167.15
360.0	5090.70	4566.27	3907.05	3201.14	2420.64	1707.22	924.58	379.38	153.74

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	107.59	80.76	61.98	37.03	25.22	17.17	10.46	5.63	1.88
22.5	106.25	78.61	60.37	35.42	24.15	16.10	9.93	5.37	1.61
45.0	104.64	77.54	58.76	34.61	23.88	15.56	9.66	5.10	1.61
67.5	104.64	77.54	58.49	33.81	23.34	15.56	9.66	4.83	1.34
90.0	116.98	86.13	66.54	41.32	27.37	17.98	11.81	6.71	2.15
112.5	114.30	84.52	66.27	41.05	26.83	17.98	11.27	6.17	2.15
135.0	113.76	84.25	65.74	41.59	27.10	18.51	11.54	6.44	2.68
157.5	115.64	84.78	66.27	44.54	28.17	18.78	12.34	6.71	2.68
180.0	116.98	86.39	67.34	46.95	29.51	20.12	12.61	7.24	3.22
202.5	118.59	89.08	68.42	49.10	30.86	20.93	13.42	7.51	3.49
225.0	123.15	89.88	68.69	50.71	31.39	20.93	13.42	8.05	3.22
247.5	125.30	92.30	70.03	51.78	31.93	21.20	13.95	8.05	3.49
270.0	116.44	86.66	68.42	45.61	29.51	20.12	12.88	7.51	3.22
292.5	114.03	86.39	67.08	43.47	28.98	19.32	12.61	6.98	2.95
315.0	112.42	84.25	65.20	41.86	27.64	18.78	12.07	6.71	2.68
337.5	110.54	82.64	63.86	39.44	26.83	17.98	11.27	6.44	2.42
360.0	107.59	80.76	61.98	37.03	25.22	17.17	10.46	5.63	1.88

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	0.54	0.00	0.27
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.27
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	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	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.27	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	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.54	0.81
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.54	0.00	0.27

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	0.81	1.34	1.88	2.42	2.95	3.49	3.76	3.76
22.5	0.27	0.81	1.34	2.15	2.42	2.95	3.22	3.22	3.49
45.0	0.27	0.81	1.07	2.15	2.42	2.68	3.22	3.49	3.49
67.5	0.27	0.81	1.34	1.88	2.42	2.68	3.49	3.49	3.49
90.0	0.27	0.54	1.07	1.61	2.42	2.95	3.22	3.49	3.76
112.5	0.00	0.27	1.07	1.61	1.88	2.42	2.68	3.49	3.22
135.0	0.00	0.54	1.07	1.34	2.15	2.68	2.68	3.22	3.22
157.5	0.00	0.54	0.81	1.07	1.61	2.42	2.68	3.22	3.49
180.0	0.00	0.27	0.54	1.34	2.15	2.15	2.95	2.95	3.22
202.5	0.00	0.27	0.54	1.07	1.88	2.15	2.68	3.22	3.22
225.0	0.00	0.27	0.81	1.34	1.61	2.42	2.95	2.95	3.22
247.5	0.00	0.27	0.81	1.07	1.88	2.42	2.95	2.95	3.49
270.0	1.07	1.34	1.88	2.15	2.95	3.49	4.03	4.03	4.29
292.5	0.27	1.07	1.34	1.88	2.42	2.68	3.22	3.22	3.22
315.0	0.54	0.81	1.34	1.61	2.42	2.68	2.95	3.49	3.49
337.5	0.54	0.54	1.34	1.88	2.42	2.68	3.49	3.22	3.76
360.0	0.54	0.81	1.34	1.88	2.42	2.95	3.49	3.76	3.76

C/γ(°)	180.0
0.0	3.69
22.5	3.69
45.0	3.69
67.5	3.69
90.0	3.69
112.5	3.69
135.0	3.69
157.5	3.69
180.0	3.69
202.5	3.69
225.0	3.69
247.5	3.69
270.0	3.69
292.5	3.69
315.0	3.69
337.5	3.69
360.0	3.69