



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

LumCAT: LD8R-27K-HO

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.04

LampCAT:

Current(A): 0.2470

Lamp flux(lm): -1.0

Power (W): 29.33

Number of Lamps: 1

PF: 0.9883

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2616.09, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 89.20

Central intensity(cd): 4288.553, Maximum intensity(cd): 4427.973

Angle of maximum intensity: C=202.5 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=43.7

[C90/270]Total=43.8

Field angle(10%Imax): [C0/180]Total=73.1

[C90/270]Total=72.8

Maximum s/h(1/2): C0_180=0.74 C90_270=0.71

Maximum s/h(1/4): C0_180=0.77 C90_270=0.74

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.14%

Down flux rate of LUM(%): 99.86%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.554%

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

Date:
Humidity(%): 59%

Operator: jarvis

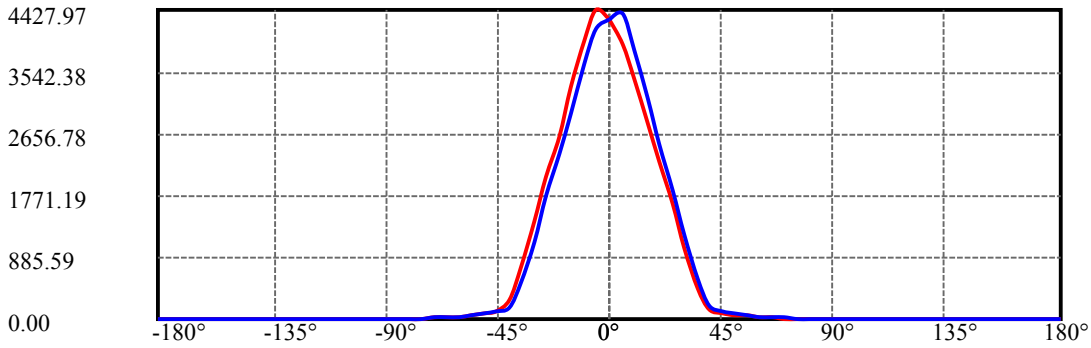
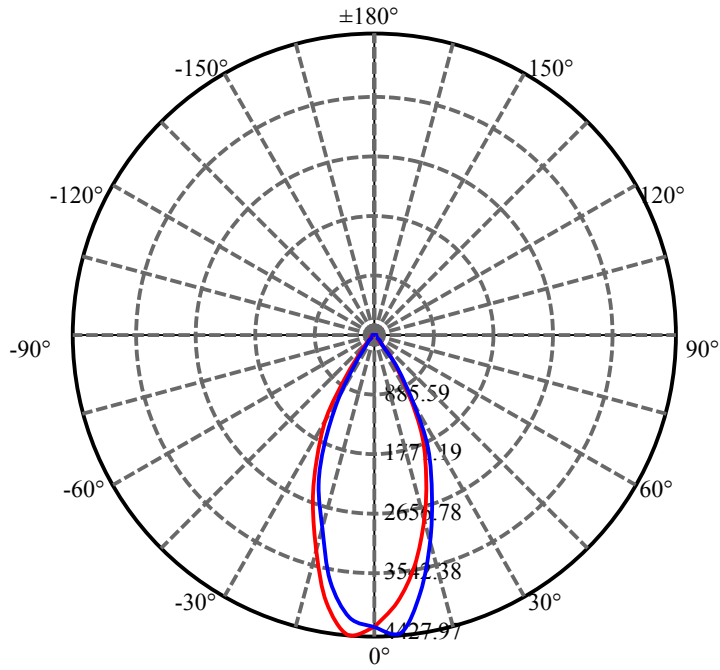
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4288.553	0.000	0	0.00%	0.00%
5.0	4195.535	101.425	101.425	0.00%	3.88%
10.0	3712.115	282.882	384.306	0.00%	14.69%
15.0	3053.237	401.316	785.623	0.00%	30.03%
20.0	2411.679	450.386	1236.008	0.00%	47.25%
25.0	1810.981	442.879	1678.887	0.00%	64.18%
30.0	1181.280	378.673	2057.56	0.00%	78.65%
35.0	569.497	257.814	2315.375	0.00%	88.51%
40.0	197.666	127.995	2443.37	0.00%	93.40%
45.0	101.518	55.396	2498.766	0.00%	95.52%
50.0	73.420	35.349	2534.115	0.00%	96.87%
55.0	47.108	26.207	2560.322	0.00%	97.87%
60.0	30.455	17.929	2578.25	0.00%	98.55%
65.0	21.223	12.563	2590.813	0.00%	99.03%
70.0	14.348	9.007	2599.82	0.00%	99.38%
75.0	9.126	6.136	2605.956	0.00%	99.61%
80.0	5.182	3.829	2609.785	0.00%	99.76%
85.0	2.118	1.984	2611.768	0.00%	99.83%
90.0	0.053	0.595	2612.363	0.00%	99.86%
95.0	0.027	0.022	2612.385	0.00%	99.86%
100.0	0.053	0.022	2612.407	0.00%	99.86%
105.0	0.053	0.028	2612.435	0.00%	99.86%
110.0	0.067	0.031	2612.466	0.00%	99.86%
115.0	0.040	0.027	2612.493	0.00%	99.86%
120.0	0.080	0.029	2612.523	0.00%	99.86%
125.0	0.173	0.058	2612.581	0.00%	99.87%
130.0	0.359	0.116	2612.697	0.00%	99.87%
135.0	0.520	0.178	2612.874	0.00%	99.88%
140.0	0.879	0.259	2613.133	0.00%	99.89%
145.0	1.266	0.358	2613.491	0.00%	99.90%
150.0	1.679	0.434	2613.925	0.00%	99.92%
155.0	2.185	0.489	2614.414	0.00%	99.94%
160.0	2.718	0.514	2614.928	0.00%	99.96%
165.0	3.037	0.474	2615.402	0.00%	99.97%
170.0	3.211	0.371	2615.773	0.00%	99.99%
175.0	3.331	0.234	2616.007	0.00%	100.00%
180.0	3.486	0.081	2616.088	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2057.56	N.A.	78.65%
0-40	2443.37	N.A.	93.40%
0-60	2578.25	N.A.	98.55%
0-90	2612.36	N.A.	99.86%
0-120	2612.52	N.A.	99.86%
0-180	2616.09	N.A.	100.00%
60-90	34.11	N.A.	1.30%
90-120	0.16	N.A.	0.01%
90-130	0.33	N.A.	0.01%
90-150	1.56	N.A.	0.06%
90-180	3.64	N.A.	0.14%
0-30.68	2092.87	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	384.31
10-20	851.70
20-30	821.55
30-40	385.81
40-50	90.74
50-60	44.14
60-70	21.57
70-80	9.96
80-90	2.58
90-100	0.04
100-110	0.06
110-120	0.06
120-130	0.17
130-140	0.44
140-150	0.79
150-160	1.00
160-170	0.84
170-180	0.23

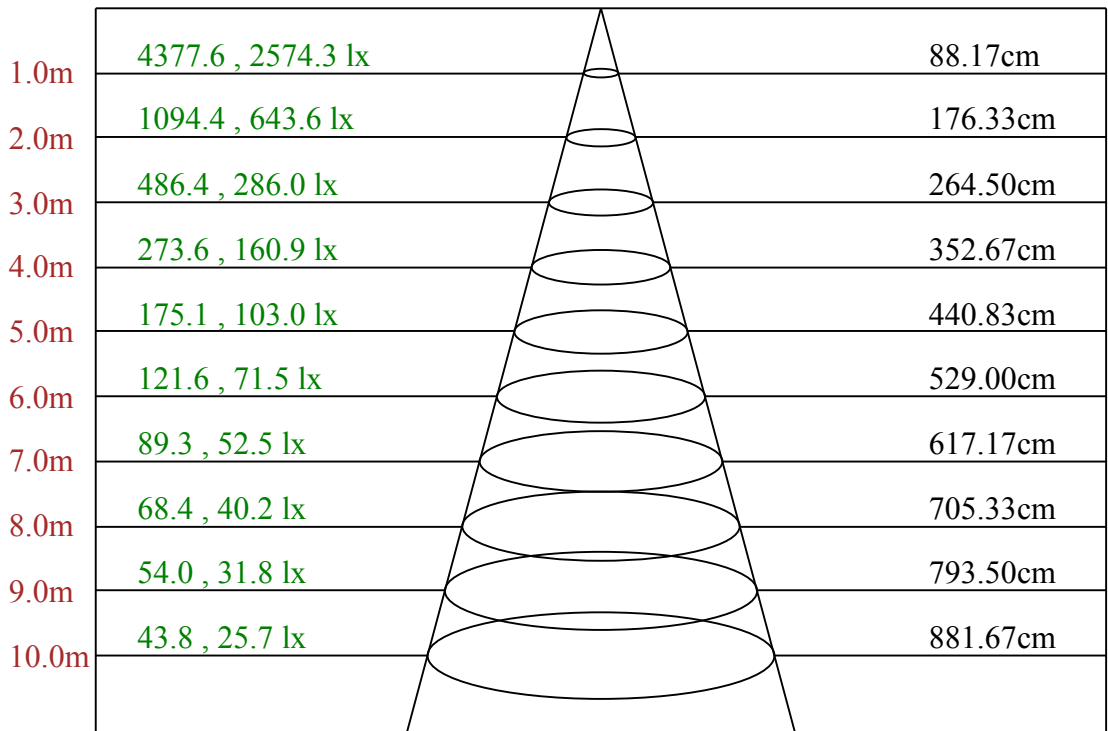


C0/C180: —

C90/C270: —

Field angle(10%Imax):C0/180Left:38.2 Right:34.9
:C90/270Left:36.1 Right:36.7

Beam Angle(50%Imax):C0/180Left:23.4 Right:20.3
:C90/270Left:21.4 Right:22.4



Max , Ave Beam angle of C202.5 plane 47.58

LD8R-27K-HO

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	4288.55	3945.59	3434.43	2800.71	2249.05	1659.24	1008.03	430.16	147.08
22.5	4288.55	3906.58	3401.18	2800.92	2193.42	1609.57	961.35	411.40	141.97
45.0	4288.55	3887.19	3377.73	2729.51	2157.82	1578.66	931.51	374.74	138.55
67.5	4288.55	3879.51	3370.49	2743.16	2146.10	1551.81	904.44	367.28	132.80
90.0	4288.55	4376.82	3843.92	3161.80	2507.40	1846.61	1198.60	569.35	191.21
112.5	4288.55	4368.29	3848.18	3185.25	2511.66	1870.05	1256.15	604.95	193.34
135.0	4288.55	4391.74	3895.07	3236.41	2547.90	1944.66	1317.97	645.24	215.08
157.5	4288.55	4408.79	3935.57	3289.70	2611.85	1989.42	1411.76	705.77	236.61
180.0	4288.55	4421.58	3991.00	3315.28	2622.51	2025.66	1416.02	740.52	274.55
202.5	4288.55	4427.97	3999.52	3347.25	2635.30	2015.00	1424.55	769.93	282.86
225.0	4288.55	4425.84	4010.18	3334.46	2607.59	1987.29	1407.50	756.29	283.08
247.5	4288.55	4413.05	3999.52	3300.36	2575.61	1972.37	1354.21	744.36	269.22
270.0	4288.55	4152.14	3662.09	2940.12	2354.57	1765.39	1091.59	514.78	175.00
292.5	4288.55	4093.53	3599.42	2912.41	2305.11	1726.81	1091.38	514.14	166.90
315.0	4288.55	4040.24	3529.08	2895.14	2294.88	1720.63	1069.21	490.27	162.64
337.5	4288.55	3989.72	3496.46	2859.33	2266.10	1712.53	1056.21	472.79	151.77
360.0	4288.55	3945.59	3434.43	2800.71	2249.05	1659.24	1008.03	430.16	147.08
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	93.15	68.21	42.21	28.56	20.25	13.64	8.74	4.69	1.92
22.5	90.59	66.29	40.71	27.92	19.40	13.22	8.31	4.48	1.71
45.0	89.53	65.44	38.37	26.86	18.97	12.36	7.67	4.05	1.49
67.5	87.82	64.16	37.52	26.22	18.33	12.15	7.67	4.05	1.49
90.0	104.66	75.46	47.54	30.48	21.10	14.28	9.17	5.12	2.13
112.5	103.81	75.67	46.90	30.06	20.89	14.28	8.74	5.12	1.71
135.0	105.09	75.67	48.39	30.27	21.10	14.07	9.17	5.12	1.71
157.5	107.01	77.59	49.45	31.12	21.74	14.71	9.17	5.12	2.13
180.0	109.35	77.59	52.22	31.97	22.38	14.92	9.59	5.54	2.13
202.5	110.63	79.30	53.72	32.61	22.60	15.35	10.02	5.76	2.56
225.0	112.76	81.00	55.21	33.68	23.45	15.99	10.23	6.18	2.77
247.5	113.40	80.79	56.49	34.32	23.66	16.41	10.66	5.97	2.77
270.0	102.32	73.97	47.11	31.34	21.96	14.92	9.38	5.54	2.56
292.5	100.83	72.90	46.90	31.12	21.74	14.71	9.38	5.76	2.35
315.0	97.63	70.77	46.68	30.91	21.32	14.50	9.17	5.33	2.35
337.5	95.71	69.92	44.34	29.84	20.68	14.07	8.95	5.12	2.13
360.0	93.15	68.21	42.21	28.56	20.25	13.64	8.74	4.69	1.92
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.21	0.21	0.21	0.00	0.21	0.00	0.00	0.21	0.43
22.5	0.00	0.00	0.21	0.00	0.00	0.21	0.21	0.43	0.64
45.0	0.00	0.00	0.00	0.21	0.21	0.00	0.21	0.21	0.43
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.64
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
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	0.21
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	0.21
225.0	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43
247.5	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
270.0	0.21	0.21	0.00	0.43	0.21	0.21	0.43	0.43	0.64
292.5	0.00	0.00	0.21	0.21	0.21	0.21	0.21	0.43	0.64
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.43
337.5	0.00	0.00	0.21	0.00	0.21	0.00	0.00	0.43	0.43
360.0	0.21	0.21	0.21	0.00	0.21	0.00	0.00	0.21	0.43

LD8R-27K-HO

Intensity data(cd)

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C/\u03b3(\u00b0)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.85	0.85	1.28	2.13	2.56	2.98	2.98	3.41	3.41
22.5	0.85	1.07	1.28	1.71	2.56	2.98	3.20	3.20	3.41
45.0	0.43	1.28	1.28	1.71	2.35	2.56	3.20	3.20	3.41
67.5	0.85	1.07	1.49	1.92	2.35	2.98	3.20	3.20	3.41
90.0	0.43	0.85	1.07	1.49	2.13	2.77	2.98	3.20	3.41
112.5	0.43	0.85	1.28	1.49	1.92	2.77	2.77	3.20	3.41
135.0	0.21	0.64	1.07	1.49	1.92	2.35	2.98	3.20	3.20
157.5	0.21	0.43	1.07	1.49	1.92	2.56	2.98	2.98	3.20
180.0	0.21	0.85	1.28	1.49	1.92	2.56	2.77	3.20	2.98
202.5	0.21	0.64	1.07	1.49	1.71	2.56	2.98	3.41	3.41
225.0	0.21	0.85	1.07	1.28	1.92	2.35	2.77	2.98	3.20
247.5	0.21	0.43	0.85	1.28	1.92	2.35	2.98	2.77	2.98
270.0	0.85	0.85	1.49	2.13	2.56	2.98	3.20	3.84	3.62
292.5	0.85	1.07	1.49	1.71	2.56	2.77	3.20	3.20	3.41
315.0	0.64	1.28	1.49	1.92	2.35	2.98	2.98	3.20	3.41
337.5	0.85	1.07	1.71	2.13	2.35	2.98	3.41	3.20	3.41
360.0	0.85	0.85	1.28	2.13	2.56	2.98	2.98	3.41	3.41

C/\u03b3(\u00b0)	180.0
0.0	3.49
22.5	3.49
45.0	3.49
67.5	3.49
90.0	3.49
112.5	3.49
135.0	3.49
157.5	3.49
180.0	3.49
202.5	3.49
225.0	3.49
247.5	3.49
270.0	3.49
292.5	3.49
315.0	3.49
337.5	3.49
360.0	3.49