



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

LumCAT: LD8R-35K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 119.96

LampCAT:

Current(A): 0.1450

Lamp flux(lm): -1.0

Power (W): 17.20

Number of Lamps: 1

PF: 0.9886

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 1601.61, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 93.11

Central intensity(cd): 2851.836, Maximum intensity(cd): 2951.783

Angle of maximum intensity: C=90.0  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=41.8

[C90/270]Total=39.9

Field angle(10%Imax): [C0/180]Total=71.8

[C90/270]Total=70.6

Maximum s/h(1/2): C0\_180=0.71 C90\_270=0.71

Maximum s/h(1/4): C0\_180=0.74 C90\_270=0.74

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  $\pi$  solid angle : 98.546%

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

Date:  
Humidity(%): 59%

Operator: jarvis

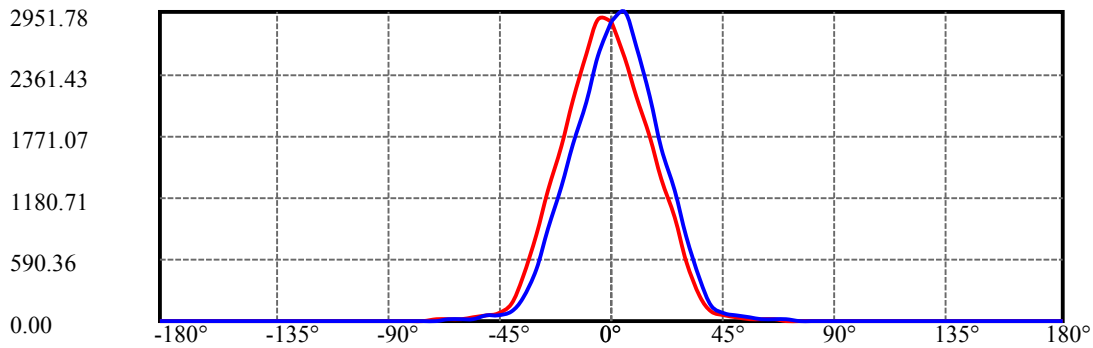
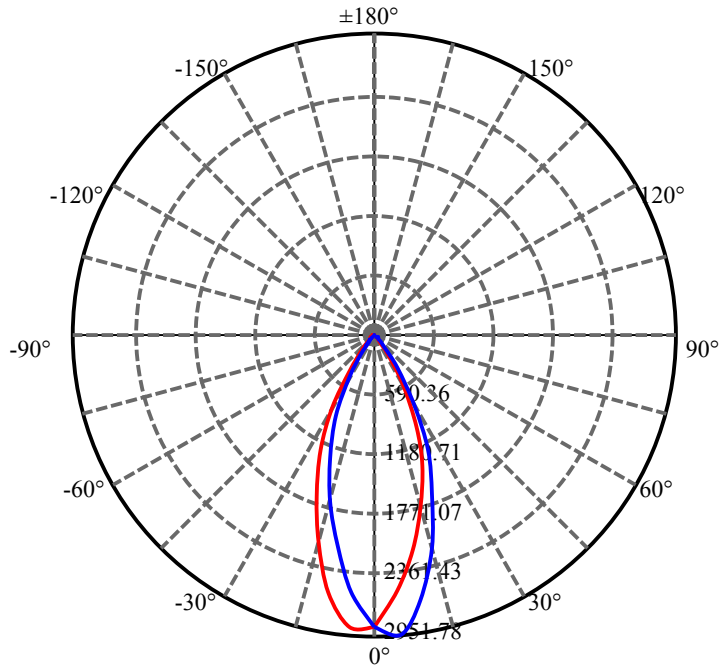
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2851.836	0.000	0	0.00%	0.00%
5.0	2700.791	66.380	66.38	0.00%	4.14%
10.0	2345.631	180.526	246.906	0.00%	15.42%
15.0	1919.010	252.976	499.882	0.00%	31.21%
20.0	1487.446	280.740	780.622	0.00%	48.74%
25.0	1085.398	269.844	1050.466	0.00%	65.59%
30.0	661.446	221.065	1271.53	0.00%	79.39%
35.0	316.348	143.987	1415.517	0.00%	88.38%
40.0	123.826	73.440	1488.957	0.00%	92.97%
45.0	69.600	35.814	1524.771	0.00%	95.20%
50.0	50.023	24.172	1548.943	0.00%	96.71%
55.0	30.981	17.613	1566.556	0.00%	97.81%
60.0	19.933	11.768	1578.324	0.00%	98.55%
65.0	13.676	8.170	1586.495	0.00%	99.06%
70.0	9.076	5.761	1592.256	0.00%	99.42%
75.0	5.681	3.857	1596.113	0.00%	99.66%
80.0	3.012	2.326	1598.439	0.00%	99.80%
85.0	0.986	1.086	1599.526	0.00%	99.87%
90.0	0.014	0.274	1599.799	0.00%	99.89%
95.0	0.014	0.007	1599.807	0.00%	99.89%
100.0	0.014	0.007	1599.814	0.00%	99.89%
105.0	0.014	0.007	1599.822	0.00%	99.89%
110.0	0.027	0.011	1599.832	0.00%	99.89%
115.0	0.014	0.010	1599.843	0.00%	99.89%
120.0	0.027	0.010	1599.853	0.00%	99.89%
125.0	0.041	0.016	1599.868	0.00%	99.89%
130.0	0.082	0.027	1599.895	0.00%	99.89%
135.0	0.192	0.055	1599.951	0.00%	99.90%
140.0	0.315	0.094	1600.044	0.00%	99.90%
145.0	0.630	0.158	1600.202	0.00%	99.91%
150.0	0.876	0.222	1600.424	0.00%	99.93%
155.0	1.136	0.255	1600.678	0.00%	99.94%
160.0	1.465	0.273	1600.951	0.00%	99.96%
165.0	1.711	0.262	1601.213	0.00%	99.98%
170.0	1.889	0.214	1601.426	0.00%	99.99%
175.0	1.957	0.138	1601.564	0.00%	100.00%
180.0	2.100	0.049	1601.612	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1271.53	N.A.	79.39%
0-40	1488.96	N.A.	92.97%
0-60	1578.32	N.A.	98.55%
0-90	1599.80	N.A.	99.89%
0-120	1599.85	N.A.	99.89%
0-180	1601.61	N.A.	100.00%
60-90	21.47	N.A.	1.34%
90-120	0.05	N.A.	0.00%
90-130	0.10	N.A.	0.01%
90-150	0.62	N.A.	0.04%
90-180	1.76	N.A.	0.11%
0-30.34	1281.29	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	246.91
10-20	533.72
20-30	490.91
30-40	217.43
40-50	59.99
50-60	29.38
60-70	13.93
70-80	6.18
80-90	1.36
90-100	0.01
100-110	0.02
110-120	0.02
120-130	0.04
130-140	0.15
140-150	0.38
150-160	0.53
160-170	0.48
170-180	0.14



C0/C180: —

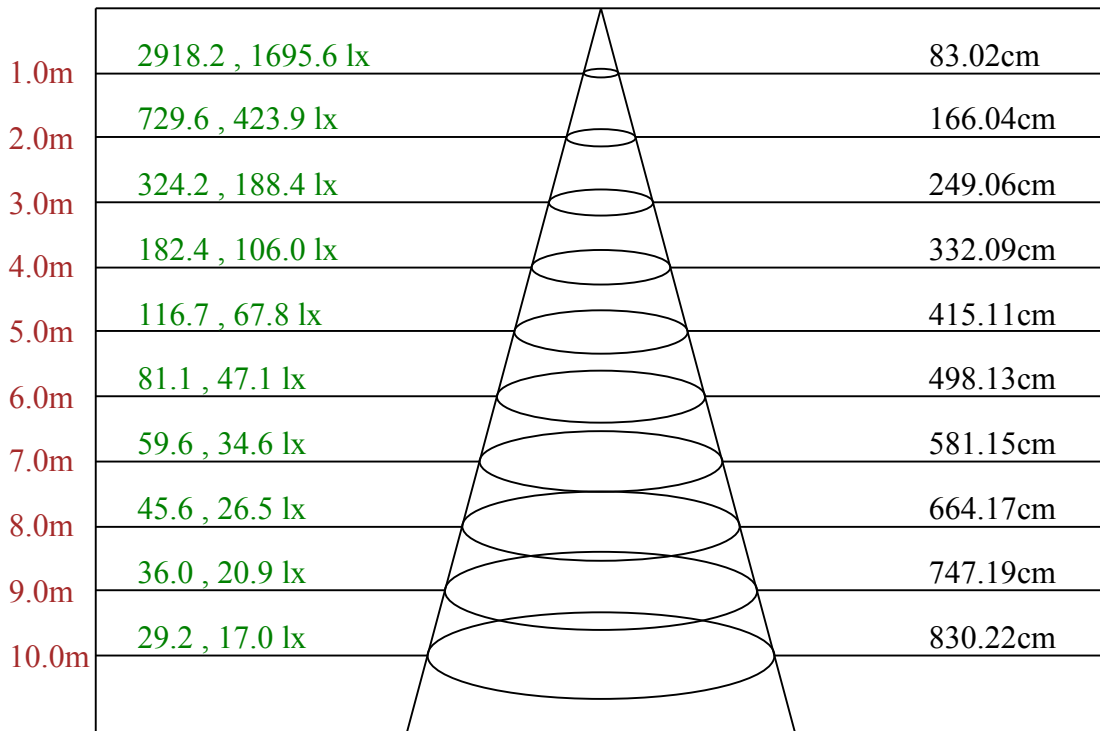
C90/C270: —

Field angle(10%I<sub>max</sub>):C0/180Left:37.6 Right:34.2

:C90/270Left:33.6 Right:37.0

Beam Angle(50%I<sub>max</sub>):C0/180Left:22.8 Right:19.0

:C90/270Left:17.7 Right:22.2



Max , Ave      Beam angle of C90 plane 45.09

## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2851.84	2511.73	2142.65	1754.07	1358.71	992.47	573.67	232.18	92.22
22.5	2851.84	2521.15	2165.65	1770.50	1362.65	1006.49	586.81	242.26	92.22
45.0	2851.84	2551.82	2185.36	1785.61	1382.58	1001.45	574.32	226.27	92.65
67.5	2851.84	2574.82	2202.45	1782.99	1366.81	984.59	547.82	216.85	90.68
90.0	2851.84	2951.78	2629.14	2151.85	1657.04	1254.00	803.00	396.24	147.85
112.5	2851.84	2937.77	2601.98	2131.26	1659.89	1234.51	772.99	407.20	162.31
135.0	2851.84	2899.21	2594.53	2144.62	1668.65	1243.71	797.74	407.41	151.14
157.5	2851.84	2883.22	2583.58	2132.14	1677.19	1266.27	811.32	413.11	151.80
180.0	2851.84	2872.05	2549.41	2107.60	1671.93	1244.59	817.68	426.91	161.43
202.5	2851.84	2836.57	2532.98	2083.51	1637.76	1216.33	814.83	434.79	160.56
225.0	2851.84	2827.59	2494.87	2058.98	1602.94	1186.98	765.76	401.72	157.05
247.5	2851.84	2809.85	2478.22	2017.80	1574.68	1136.82	705.31	382.66	155.52
270.0	2851.84	2529.69	2097.31	1695.15	1283.14	871.12	488.46	221.01	92.87
292.5	2851.84	2508.23	2080.22	1680.91	1274.59	874.19	486.71	215.75	92.00
315.0	2851.84	2496.40	2088.11	1699.75	1290.58	899.38	507.52	215.54	90.03
337.5	2851.84	2500.78	2103.66	1707.42	1330.01	953.48	529.20	221.67	90.90
360.0	2851.84	2511.73	2142.65	1754.07	1358.71	992.47	573.67	232.18	92.22
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	62.86	45.12	24.97	17.52	12.05	7.89	4.82	2.19	0.66
22.5	62.21	45.12	25.41	17.52	12.27	7.89	4.82	2.63	0.66
45.0	62.43	45.12	25.41	17.74	12.05	8.10	4.82	2.63	0.66
67.5	62.21	45.12	25.41	17.52	12.05	7.89	4.82	2.41	0.66
90.0	77.98	55.86	36.58	22.56	15.33	10.08	6.57	3.72	1.31
112.5	76.45	54.54	36.80	22.12	15.11	10.30	6.35	3.51	0.88
135.0	75.35	54.98	36.36	22.12	14.90	10.08	6.35	3.29	1.10
157.5	76.23	54.54	36.36	22.12	15.33	10.08	6.57	3.29	1.53
180.0	76.45	54.54	36.58	21.90	14.90	9.86	6.35	3.29	1.31
202.5	76.66	54.98	36.58	22.12	15.11	10.08	6.35	3.51	1.31
225.0	76.88	54.76	36.14	21.69	15.11	10.08	6.35	3.51	1.31
247.5	76.01	53.88	36.14	21.69	14.90	9.86	6.13	3.29	1.10
270.0	63.96	46.00	26.50	18.62	12.70	8.54	5.48	3.07	1.31
292.5	63.30	45.56	25.63	17.96	12.49	8.10	5.04	2.85	0.88
315.0	62.21	45.34	25.63	17.74	12.27	8.32	5.04	2.63	0.44
337.5	62.43	44.90	25.19	17.96	12.27	8.10	5.04	2.41	0.66
360.0	62.86	45.12	24.97	17.52	12.05	7.89	4.82	2.19	0.66
C/ $\gamma$ (°)	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	0.22	0.22
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
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	0.00	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	0.22	0.22	0.22	0.22	0.44	0.22	0.22	0.44	0.44
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.22
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22

## LD8R-35K

## Intensity data(cd)

Appendix Page: 7 Total:7

C/ $\gamma$ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.22	0.66	0.88	0.88	1.10	1.53	1.53	1.97	1.97
22.5	0.44	0.44	0.88	1.31	1.31	1.75	1.75	1.75	1.97
45.0	0.44	0.44	0.66	1.10	1.31	1.53	1.97	1.97	1.97
67.5	0.22	0.66	0.66	1.10	1.10	1.31	1.75	2.19	1.97
90.0	0.00	0.22	0.66	0.44	1.31	1.31	1.75	1.75	1.97
112.5	0.00	0.00	0.44	0.44	0.88	1.53	1.75	1.53	1.75
135.0	0.00	0.00	0.22	0.44	0.88	1.31	1.75	1.97	1.97
157.5	0.00	0.00	0.22	0.66	0.88	1.31	1.31	1.75	1.75
180.0	0.00	0.00	0.22	0.66	1.10	1.31	1.53	1.75	1.97
202.5	0.00	0.00	0.44	0.66	1.10	1.31	1.53	1.75	1.75
225.0	0.00	0.22	0.44	0.66	0.88	1.31	1.31	1.53	1.75
247.5	0.00	0.00	0.44	0.66	0.88	1.10	1.53	1.75	1.97
270.0	0.88	0.88	1.31	1.53	1.75	2.19	2.41	2.63	2.85
292.5	0.44	0.66	0.88	1.10	1.10	1.53	1.97	2.19	1.97
315.0	0.22	0.44	0.88	1.10	1.31	1.53	1.75	1.75	1.75
337.5	0.22	0.44	0.88	1.31	1.31	1.53	1.75	1.97	1.97
360.0	0.22	0.66	0.88	0.88	1.10	1.53	1.53	1.97	1.97
C/ $\gamma$ (°)	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								