



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

LumCAT: LD8R-35K-HO

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.02

LampCAT:

Current(A): 0.2460

Lamp flux(lm): -1.0

Power (W): 29.19

Number of Lamps: 1

PF: 0.9903

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2807.31, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 96.19

Central intensity(cd): 4921.125, Maximum intensity(cd): 5242.195

Angle of maximum intensity: C=90.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=41.4

[C90/270]Total=41.2

Field angle(10%Imax): [C0/180]Total=71.0

[C90/270]Total=71.7

Maximum s/h(1/2): C0_180=0.69 C90_270=0.76

Maximum s/h(1/4): C0_180=0.72 C90_270=0.78

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 : 98.628%

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

Date:
Humidity(%): 59%

Operator: jarvis

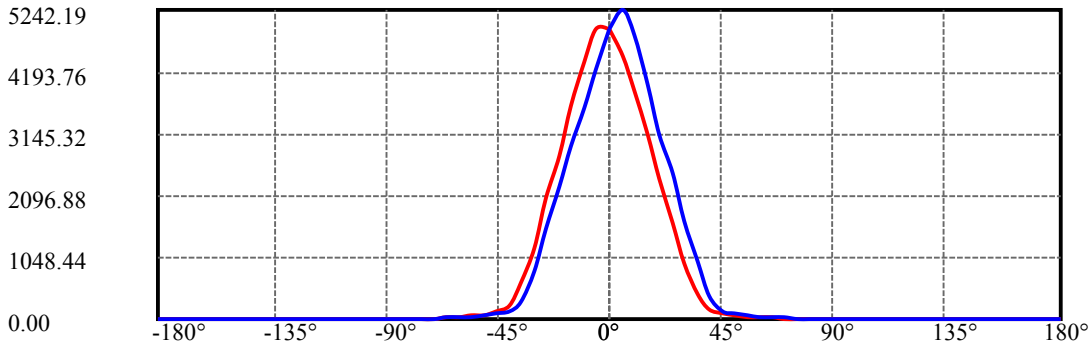
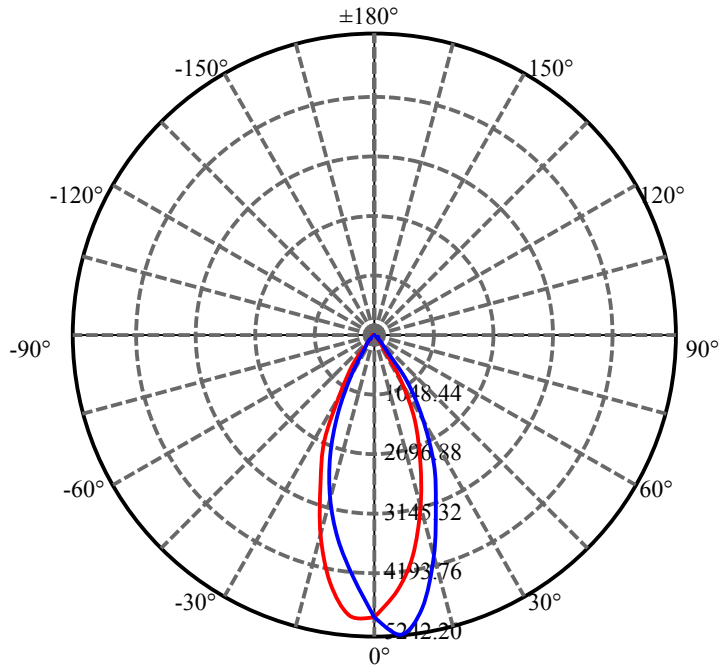
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4921.125	0.000	0	0.00%	0.00%
5.0	4694.183	114.948	114.948	0.00%	4.09%
10.0	4153.290	316.502	431.45	0.00%	15.37%
15.0	3403.099	448.240	879.69	0.00%	31.34%
20.0	2630.571	497.259	1376.949	0.00%	49.05%
25.0	1914.798	476.725	1853.674	0.00%	66.03%
30.0	1156.003	388.612	2242.287	0.00%	79.87%
35.0	559.356	252.599	2494.885	0.00%	88.87%
40.0	211.452	128.603	2623.489	0.00%	93.45%
45.0	111.190	59.740	2683.229	0.00%	95.58%
50.0	78.459	38.321	2721.55	0.00%	96.94%
55.0	50.658	28.074	2749.624	0.00%	97.94%
60.0	32.279	19.171	2768.795	0.00%	98.63%
65.0	22.238	13.253	2782.048	0.00%	99.10%
70.0	14.903	9.404	2791.452	0.00%	99.43%
75.0	9.356	6.341	2797.793	0.00%	99.66%
80.0	5.196	3.894	2801.687	0.00%	99.80%
85.0	1.888	1.925	2803.612	0.00%	99.87%
90.0	0.067	0.535	2804.147	0.00%	99.89%
95.0	0.017	0.023	2804.17	0.00%	99.89%
100.0	0.033	0.014	2804.184	0.00%	99.89%
105.0	0.017	0.013	2804.197	0.00%	99.89%
110.0	0.033	0.013	2804.21	0.00%	99.89%
115.0	0.050	0.021	2804.232	0.00%	99.89%
120.0	0.033	0.020	2804.252	0.00%	99.89%
125.0	0.050	0.019	2804.271	0.00%	99.89%
130.0	0.167	0.047	2804.318	0.00%	99.89%
135.0	0.317	0.098	2804.416	0.00%	99.90%
140.0	0.585	0.167	2804.583	0.00%	99.90%
145.0	1.036	0.270	2804.854	0.00%	99.91%
150.0	1.571	0.384	2805.237	0.00%	99.93%
155.0	2.055	0.459	2805.696	0.00%	99.94%
160.0	2.590	0.487	2806.183	0.00%	99.96%
165.0	2.957	0.457	2806.641	0.00%	99.98%
170.0	3.158	0.363	2807.003	0.00%	99.99%
175.0	3.275	0.230	2807.234	0.00%	100.00%
180.0	3.538	0.081	2807.315	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2242.29	N.A.	79.87%
0-40	2623.49	N.A.	93.45%
0-60	2768.79	N.A.	98.63%
0-90	2804.15	N.A.	99.89%
0-120	2804.25	N.A.	99.89%
0-180	2807.31	N.A.	100.00%
60-90	35.35	N.A.	1.26%
90-120	0.10	N.A.	0.00%
90-130	0.17	N.A.	0.01%
90-150	1.09	N.A.	0.04%
90-180	3.09	N.A.	0.11%
0-30.07	2245.85	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	431.45
10-20	945.50
20-30	865.34
30-40	381.20
40-50	98.06
50-60	47.24
60-70	22.66
70-80	10.23
80-90	2.46
90-100	0.04
100-110	0.03
110-120	0.04
120-130	0.07
130-140	0.26
140-150	0.65
150-160	0.95
160-170	0.82
170-180	0.23

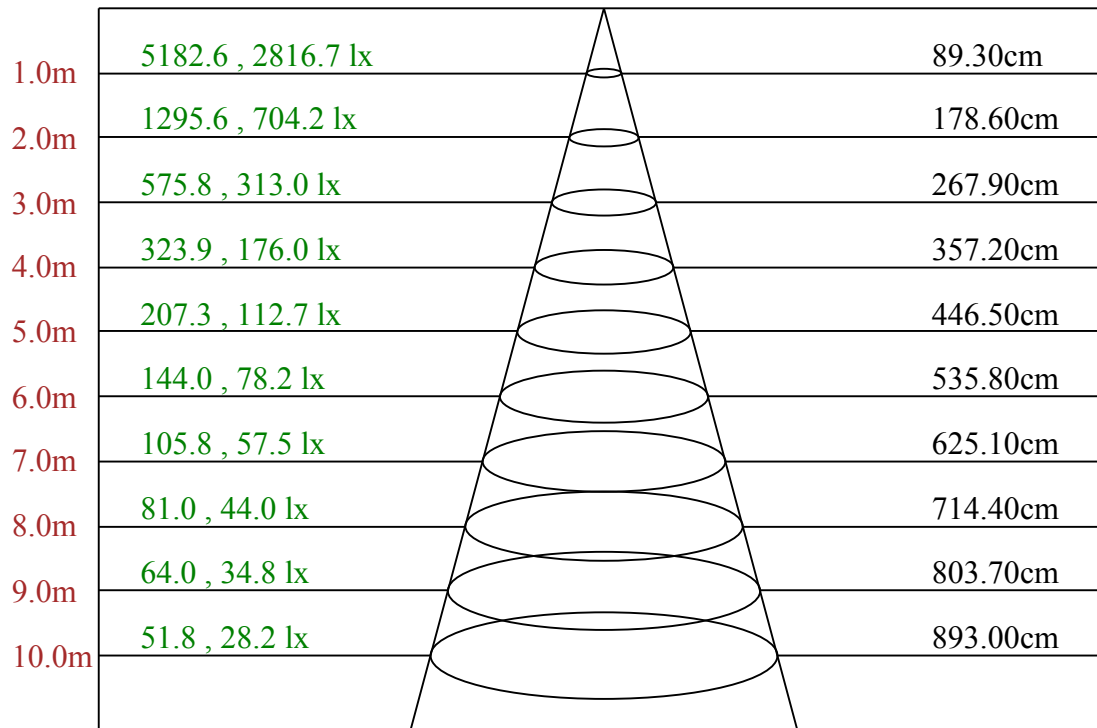


C0/C180: —

C90/C270: —

Field angle(10%Imax):C0/180Left:36.6 Right:34.4
:C90/270Left:32.9 Right:38.8

Beam Angle(50%Imax):C0/180Left:22.0 Right:19.4
:C90/270Left:17.3 Right:23.9



Max , Ave Beam angle of C90 plane 48.12

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	4921.13	4452.52	3889.54	3127.94	2373.02	1638.95	934.83	430.66	155.31
22.5	4921.13	4658.63	4089.23	3288.07	2564.43	1850.41	1082.92	476.37	177.24
45.0	4921.13	4798.71	4277.16	3446.59	2745.14	2078.17	1265.77	600.94	234.18
67.5	4921.13	4860.19	4360.03	3525.72	2844.58	2147.67	1437.39	724.44	263.85
90.0	4921.13	5242.20	4804.32	3982.30	3123.13	2480.22	1654.19	977.87	380.67
112.5	4921.13	5224.82	4739.90	3975.09	3108.43	2426.22	1573.46	909.16	335.49
135.0	4921.13	5135.80	4645.26	3852.12	3007.11	2324.10	1457.71	801.17	302.61
157.5	4921.13	5011.50	4499.57	3721.13	2829.61	2176.01	1321.64	701.19	272.40
180.0	4921.13	4905.90	4359.76	3605.65	2753.69	2035.66	1212.58	626.34	217.07
202.5	4921.13	4766.90	4208.46	3463.70	2686.59	1956.80	1173.81	525.02	172.96
225.0	4921.13	4665.31	4030.42	3312.13	2611.21	1841.05	1107.25	457.12	167.61
247.5	4921.13	4559.72	3959.05	3247.70	2542.77	1752.30	1066.88	430.12	156.38
270.0	4921.13	4220.22	3593.35	2938.68	2236.15	1521.07	821.75	300.20	132.59
292.5	4921.13	4149.38	3620.08	2964.07	2186.16	1459.31	786.20	305.55	134.73
315.0	4921.13	4161.41	3639.33	2978.78	2211.56	1434.19	768.02	324.00	136.87
337.5	4921.13	4293.73	3737.17	3019.94	2265.56	1514.65	831.64	359.55	143.29
360.0	4921.13	4452.52	3889.54	3127.94	2373.02	1638.95	934.83	430.66	155.31
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	102.92	73.78	45.18	29.94	20.58	13.90	9.09	4.54	1.60
22.5	109.60	78.59	48.65	31.81	21.65	14.70	9.09	5.35	1.87
45.0	114.95	81.53	52.66	32.61	22.99	15.51	9.62	5.35	2.41
67.5	117.62	82.87	55.07	33.68	22.99	16.04	9.89	6.15	2.41
90.0	140.61	94.63	66.83	38.76	27.27	18.45	12.03	6.95	3.21
112.5	135.80	92.23	64.43	38.23	26.47	17.91	11.50	6.68	2.94
135.0	130.72	89.82	62.02	36.89	25.40	17.11	10.96	6.42	2.67
157.5	123.24	85.81	59.08	35.02	24.06	16.04	10.43	6.15	2.41
180.0	115.22	81.27	54.53	33.68	22.72	15.24	9.62	5.61	1.87
202.5	109.60	78.33	49.72	31.81	22.19	14.97	9.36	4.81	1.60
225.0	104.52	75.92	47.05	31.28	21.39	14.17	8.82	4.54	1.60
247.5	100.51	74.32	44.38	30.48	20.85	13.90	8.55	4.01	1.07
270.0	91.96	64.96	40.37	28.07	19.25	12.56	7.75	4.28	1.34
292.5	91.96	64.96	39.30	27.27	18.98	12.30	7.49	4.01	1.07
315.0	93.30	66.56	39.56	28.07	19.25	12.56	7.49	4.01	0.80
337.5	96.50	69.77	41.70	28.87	19.78	13.10	8.02	4.28	1.34
360.0	102.92	73.78	45.18	29.94	20.58	13.90	9.09	4.54	1.60
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	0.27
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	0.27
90.0	0.54	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	0.27	0.27	0.27	0.27	0.54	0.54	0.54	0.54	1.07
292.5	0.00	0.00	0.27	0.00	0.00	0.27	0.00	0.00	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	0.00	0.27	0.00

LD8R-35K-HO

Intensity data(cd)

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C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.27	0.80	1.07	1.60	1.87	2.41	3.21	3.21	3.21
22.5	0.54	0.54	1.34	1.60	2.14	2.67	2.67	3.48	3.21
45.0	0.27	0.54	1.34	1.60	1.87	2.67	2.94	2.94	3.21
67.5	0.27	0.80	1.07	1.60	2.14	2.41	2.94	2.94	3.48
90.0	0.27	0.00	0.80	1.34	1.60	2.41	2.94	3.21	3.21
112.5	0.00	0.27	0.54	0.80	1.87	2.41	2.67	2.94	3.21
135.0	0.00	0.27	0.80	1.07	1.60	2.41	2.41	2.67	2.94
157.5	0.00	0.27	0.54	1.07	1.60	2.41	2.67	2.94	2.94
180.0	0.00	0.27	0.54	1.34	1.60	2.14	2.67	3.21	2.94
202.5	0.27	0.27	0.54	1.60	2.14	2.14	2.67	2.94	3.21
225.0	0.00	0.54	0.80	1.34	1.87	2.41	2.94	2.67	3.21
247.5	0.27	0.54	1.07	1.60	2.14	2.67	2.94	2.94	3.21
270.0	1.34	1.60	2.14	2.94	3.48	3.74	3.74	4.01	4.01
292.5	0.80	1.07	1.60	1.87	2.41	2.94	3.48	3.74	3.48
315.0	0.54	0.80	1.07	1.87	2.41	2.94	3.21	3.48	3.48
337.5	0.27	0.80	1.34	1.87	2.14	2.67	3.21	3.21	3.48
360.0	0.27	0.80	1.07	1.60	1.87	2.41	3.21	3.21	3.21

C/γ(°)	180.0
0.0	3.54
22.5	3.54
45.0	3.54
67.5	3.54
90.0	3.54
112.5	3.54
135.0	3.54
157.5	3.54
180.0	3.54
202.5	3.54
225.0	3.54
247.5	3.54
270.0	3.54
292.5	3.54
315.0	3.54
337.5	3.54
360.0	3.54