



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

LumCAT: LD8R-30K-HO

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.03

LampCAT:

Current(A): 0.2430

Lamp flux(lm): -1.0

Power (W): 28.93

Number of Lamps: 1

PF: 0.9905

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2706.77, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 93.56

Central intensity(cd): 4754.780, Maximum intensity(cd): 4937.215

Angle of maximum intensity: C=157.5 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=40.6

[C90/270]Total=42.3

Field angle(10%Imax): [C0/180]Total=70.8

[C90/270]Total=71.8

Maximum s/h(1/2): C0_180=0.72 C90_270=0.72

Maximum s/h(1/4): C0_180=0.74 C90_270=0.75

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.09%

Down flux rate of LUM(%): 99.91%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.770%

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

Date:
Humidity(%): 59%

Operator: jarvis

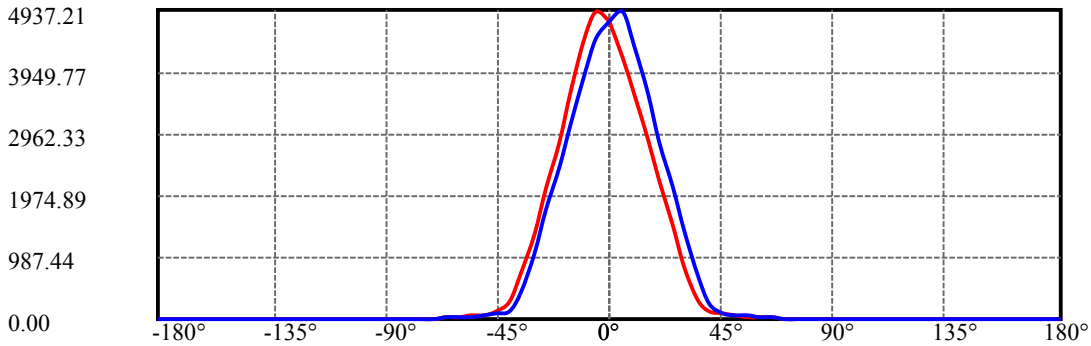
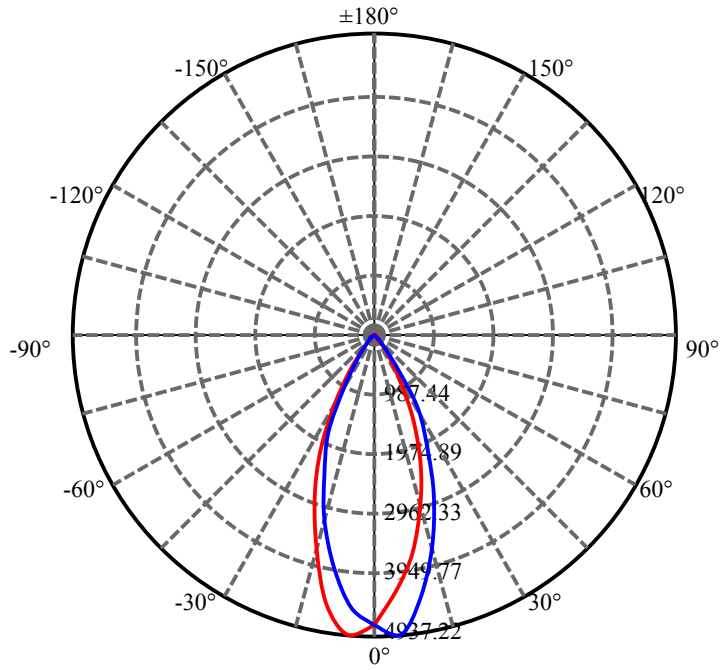
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4754.780	0.000	0	0.00%	0.00%
5.0	4576.351	111.551	111.551	0.00%	4.12%
10.0	4043.521	308.360	419.911	0.00%	15.51%
15.0	3297.577	435.469	855.38	0.00%	31.60%
20.0	2550.082	481.929	1337.309	0.00%	49.41%
25.0	1860.522	462.591	1799.9	0.00%	66.50%
30.0	1144.421	380.278	2180.178	0.00%	80.55%
35.0	532.728	246.972	2427.15	0.00%	89.67%
40.0	187.670	120.193	2547.343	0.00%	94.11%
45.0	94.517	52.249	2599.592	0.00%	96.04%
50.0	67.455	32.729	2632.321	0.00%	97.25%
55.0	44.369	24.314	2656.635	0.00%	98.15%
60.0	28.495	16.842	2673.477	0.00%	98.77%
65.0	19.581	11.687	2685.165	0.00%	99.20%
70.0	12.992	8.248	2693.413	0.00%	99.51%
75.0	8.088	5.510	2698.923	0.00%	99.71%
80.0	4.398	3.341	2702.264	0.00%	99.83%
85.0	1.517	1.607	2703.871	0.00%	99.89%
90.0	0.000	0.415	2704.286	0.00%	99.91%
95.0	0.000	0.000	2704.286	0.00%	99.91%
100.0	0.000	0.000	2704.286	0.00%	99.91%
105.0	0.000	0.000	2704.286	0.00%	99.91%
110.0	0.000	0.000	2704.286	0.00%	99.91%
115.0	0.000	0.000	2704.286	0.00%	99.91%
120.0	0.034	0.008	2704.294	0.00%	99.91%
125.0	0.000	0.008	2704.302	0.00%	99.91%
130.0	0.067	0.015	2704.317	0.00%	99.91%
135.0	0.118	0.037	2704.354	0.00%	99.91%
140.0	0.354	0.087	2704.442	0.00%	99.91%
145.0	0.741	0.183	2704.625	0.00%	99.92%
150.0	1.298	0.300	2704.925	0.00%	99.93%
155.0	1.786	0.390	2705.315	0.00%	99.95%
160.0	2.275	0.426	2705.741	0.00%	99.96%
165.0	2.696	0.410	2706.151	0.00%	99.98%
170.0	2.899	0.332	2706.483	0.00%	99.99%
175.0	2.966	0.210	2706.692	0.00%	100.00%
180.0	3.299	0.075	2706.767	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2180.18	N.A.	80.55%
0-40	2547.34	N.A.	94.11%
0-60	2673.48	N.A.	98.77%
0-90	2704.29	N.A.	99.91%
0-120	2704.29	N.A.	99.91%
0-180	2706.77	N.A.	100.00%
60-90	30.81	N.A.	1.14%
90-120	0.01	N.A.	0.00%
90-130	0.03	N.A.	0.00%
90-150	0.64	N.A.	0.02%
90-180	2.41	N.A.	0.09%
0-29.81	2165.41	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	419.91
10-20	917.40
20-30	842.87
30-40	367.16
40-50	84.98
50-60	41.16
60-70	19.94
70-80	8.85
80-90	2.02
90-100	0.00
100-110	0.00
110-120	0.01
120-130	0.02
130-140	0.12
140-150	0.48
150-160	0.82
160-170	0.74
170-180	0.21



C0/C180: —

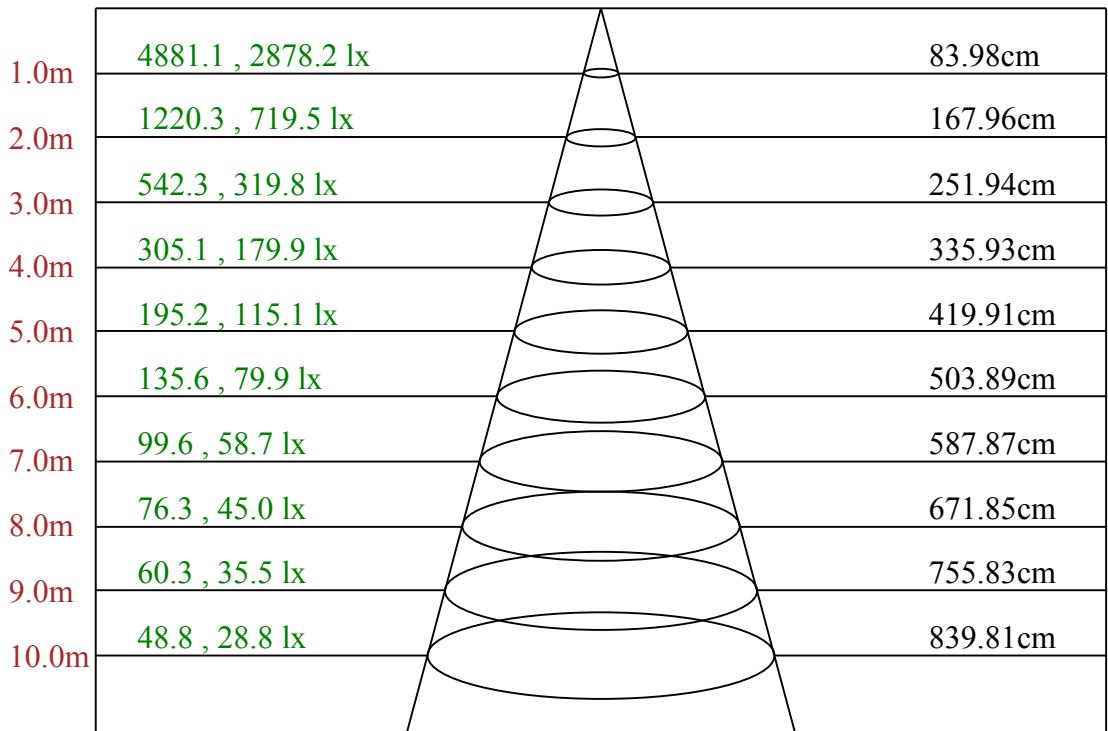
C90/C270: —

Field angle(10%Imax):C0/180Left:37.5 Right:33.3

:C90/270Left:34.4 Right:37.4

Beam Angle(50%Imax):C0/180Left:22.5 Right:18.1

:C90/270Left:19.8 Right:22.5



Max , Ave Beam angle of C157.5 plane 45.56

LD8R-30K-HO

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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	4754.78	4176.90	3594.26	2873.03	2203.31	1497.72	838.78	307.90	117.55
22.5	4754.78	4189.84	3622.57	2930.46	2270.71	1588.85	894.05	320.30	121.06
45.0	4754.78	4229.74	3705.34	3012.96	2368.04	1720.42	987.34	376.12	127.26
67.5	4754.78	4300.11	3771.66	3104.90	2435.72	1798.88	1091.41	452.96	142.90
90.0	4754.78	4911.60	4369.40	3612.59	2810.75	2111.10	1416.83	713.41	241.31
112.5	4754.78	4926.97	4405.80	3640.90	2851.19	2139.41	1386.91	711.79	254.79
135.0	4754.78	4925.08	4472.13	3684.31	2833.40	2130.78	1344.85	716.10	252.36
157.5	4754.78	4937.22	4485.07	3670.56	2821.27	2092.49	1349.16	725.27	257.75
180.0	4754.78	4919.42	4469.16	3641.17	2816.68	2098.42	1342.69	726.89	264.76
202.5	4754.78	4872.78	4401.49	3631.46	2793.23	2115.41	1386.37	730.66	252.09
225.0	4754.78	4815.89	4320.06	3560.02	2760.33	2085.75	1370.46	713.94	249.13
247.5	4754.78	4762.50	4221.65	3445.16	2689.15	2006.76	1321.12	671.35	232.68
270.0	4754.78	4468.62	3879.24	3121.89	2427.63	1762.48	1027.51	414.13	134.54
292.5	4754.78	4352.96	3754.68	3017.55	2320.86	1620.13	896.74	337.56	123.48
315.0	4754.78	4239.18	3648.18	2934.78	2220.83	1523.87	830.96	304.13	115.94
337.5	4754.78	4192.80	3575.65	2879.50	2178.23	1475.88	825.57	301.16	115.13
360.0	4754.78	4176.90	3594.26	2873.03	2203.31	1497.72	838.78	307.90	117.55
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	80.08	57.97	34.78	24.00	16.45	10.79	6.47	3.51	0.81
22.5	81.69	59.32	35.05	24.81	16.99	11.05	6.47	2.97	1.08
45.0	85.20	61.74	36.40	24.81	17.53	11.32	7.01	3.51	1.08
67.5	88.43	63.90	38.56	26.15	17.80	11.59	7.01	3.78	1.35
90.0	106.23	76.03	50.42	31.28	21.57	14.56	8.90	5.12	1.89
112.5	108.12	76.30	53.38	31.55	21.84	14.29	9.44	5.12	1.89
135.0	108.66	76.57	54.19	32.89	21.84	15.10	9.17	5.66	2.16
157.5	110.00	77.11	54.46	32.35	22.65	14.83	9.44	5.39	2.43
180.0	108.66	75.49	53.65	32.62	22.38	14.83	9.71	5.66	2.16
202.5	104.88	73.88	53.11	32.35	21.84	14.83	9.44	5.39	2.16
225.0	102.45	72.26	50.42	31.28	21.30	14.56	8.90	5.12	1.89
247.5	98.41	70.10	47.99	30.20	20.76	14.02	8.90	4.58	1.35
270.0	87.09	63.90	39.90	27.23	19.14	12.67	8.09	4.04	1.62
292.5	82.77	59.86	37.21	25.61	17.80	11.32	7.01	3.51	0.81
315.0	80.35	57.97	35.59	24.81	16.99	11.05	6.74	3.78	0.81
337.5	79.27	56.89	34.78	24.00	16.45	11.05	6.74	3.24	0.81
360.0	80.08	57.97	34.78	24.00	16.45	10.79	6.47	3.51	0.81
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	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00
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	0.27
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	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.54
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.27
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Equipment: GMS-3000
Temperature(°C): 25Date:
Humidity(%): 59%

Operator: jarvis

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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	0.54	1.08	1.62	2.16	2.70	3.24	2.97	2.97
22.5	0.27	0.81	1.08	1.62	2.16	2.70	2.97	2.97	2.97
45.0	0.00	0.81	1.35	1.62	1.89	2.16	2.70	2.97	2.97
67.5	0.27	0.27	1.08	1.62	1.89	2.16	2.43	2.97	2.97
90.0	0.00	0.00	0.54	1.35	1.62	2.43	2.43	2.97	3.24
112.5	0.00	0.00	0.54	0.81	1.62	2.16	2.43	2.70	2.70
135.0	0.00	0.00	0.27	0.81	1.62	1.89	2.70	2.97	2.97
157.5	0.00	0.00	0.54	0.81	1.62	1.89	2.70	2.70	2.97
180.0	0.00	0.00	0.27	1.08	1.08	1.62	2.70	2.43	2.97
202.5	0.00	0.00	0.27	0.81	1.35	1.89	2.43	2.70	2.43
225.0	0.00	0.00	0.27	1.08	1.35	1.89	2.16	2.43	2.43
247.5	0.00	0.00	0.27	0.81	1.62	1.89	2.43	2.70	2.70
270.0	0.81	1.08	1.35	2.16	2.70	2.97	3.51	3.78	3.78
292.5	0.27	0.81	1.08	1.62	2.16	2.70	2.70	2.97	3.24
315.0	0.00	0.81	1.08	1.62	1.89	2.43	2.70	3.24	3.24
337.5	0.00	0.54	0.81	1.35	1.89	2.97	2.97	2.97	2.97
360.0	0.27	0.54	1.08	1.62	2.16	2.70	3.24	2.97	2.97
C/γ(°)	180.0								
0.0	3.30								
22.5	3.30								
45.0	3.30								
67.5	3.30								
90.0	3.30								
112.5	3.30								
135.0	3.30								
157.5	3.30								
180.0	3.30								
202.5	3.30								
225.0	3.30								
247.5	3.30								
270.0	3.30								
292.5	3.30								
315.0	3.30								
337.5	3.30								
360.0	3.30								