



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LL6R-40K

Luminaire:

Report No:

Voltage(V): 120.1

Test No:

Current(A): 0.1418

LampCAT:

Power (W): 16.7950

Lamp flux(lm): 1055.9

PF: 0.9862

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1055.86

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 62.87

Central intensity(cd): 389.172

Maximum intensity(cd): 394.950

Angle of maximum intensity: C=180.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=107.5

[C90/270]Total=107.1

Field angle(10%Imax): [C0/180]Total=158.9

[C90/270]Total=159.0

Maximum s/h(1/2): C0_180=1.26 C90_270=1.22

Maximum s/h(1/4): C0_180=1.80 C90_270=1.33

Up flux rate of lamp(%): 0.66%

Down flux rate of lamp(%): 99.34%

Up flux rate of LUM(%): 0.66%

Down flux rate of LUM(%): 99.34%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 79.420%

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

Date:
Humidity(%): 58%

Operator: Zac

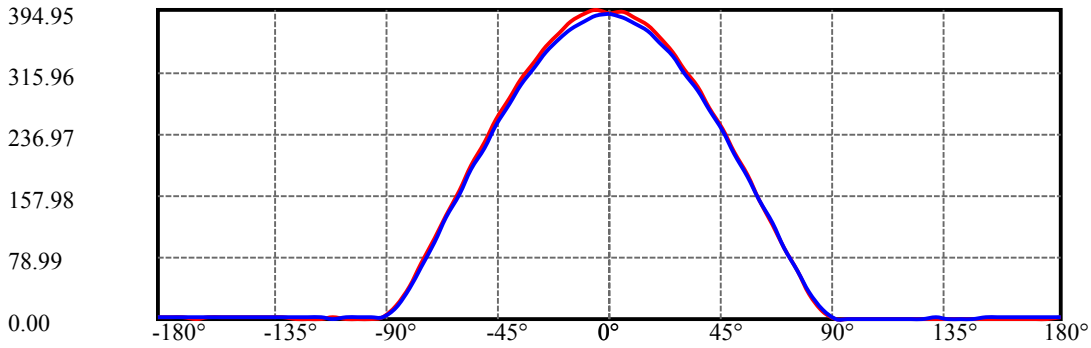
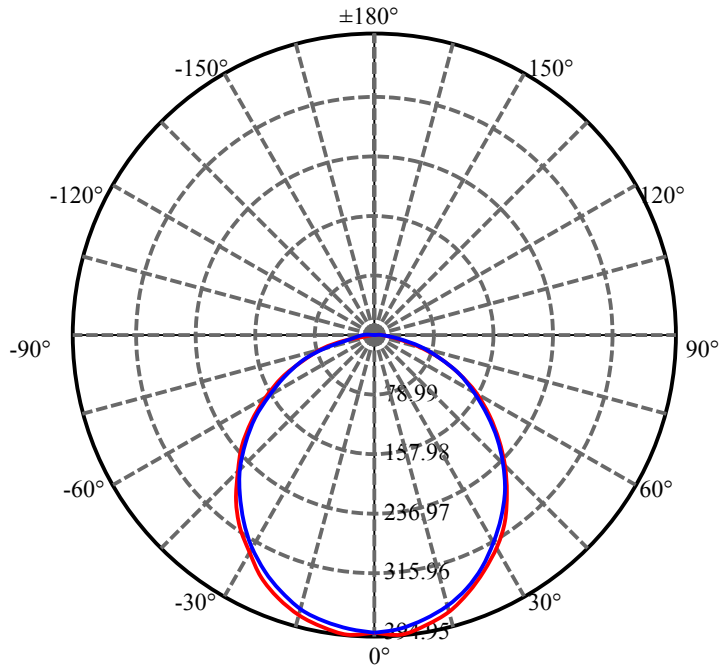
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	389.172	.000	.000	.000%	.000%
5.0	387.350	9.283	9.283	.879%	.879%
10.0	381.083	27.489	36.772	2.603%	3.483%
15.0	370.868	44.605	81.378	4.225%	7.707%
20.0	356.898	59.978	141.356	5.681%	13.388%
25.0	339.327	73.021	214.377	6.916%	20.304%
30.0	319.141	83.330	297.707	7.892%	28.196%
35.0	296.431	90.647	388.354	8.585%	36.781%
40.0	271.272	94.717	483.071	8.971%	45.751%
45.0	244.281	95.459	578.530	9.041%	54.792%
50.0	216.162	93.039	671.569	8.812%	63.604%
55.0	186.838	87.625	759.194	8.299%	71.903%
60.0	156.527	79.368	838.562	7.517%	79.420%
65.0	125.767	68.626	907.188	6.500%	85.919%
70.0	95.034	55.908	963.096	5.295%	91.214%
75.0	64.736	41.761	1004.857	3.955%	95.170%
80.0	35.976	26.948	1031.805	2.552%	97.722%
85.0	12.829	13.261	1045.066	1.256%	98.978%
90.0	1.051	3.800	1048.867	.360%	99.338%
95.0	.948	.547	1049.414	.052%	99.389%
100.0	.948	.515	1049.929	.049%	99.438%
105.0	1.012	.525	1050.454	.050%	99.488%
110.0	1.051	.539	1050.993	.051%	99.539%
115.0	1.025	.526	1051.518	.050%	99.589%
120.0	1.102	.517	1052.035	.049%	99.638%
125.0	1.140	.518	1052.554	.049%	99.687%
130.0	1.179	.504	1053.058	.048%	99.735%
135.0	1.166	.474	1053.532	.045%	99.779%
140.0	1.204	.439	1053.971	.042%	99.821%
145.0	1.268	.413	1054.383	.039%	99.860%
150.0	1.294	.377	1054.760	.036%	99.896%
155.0	1.358	.336	1055.096	.032%	99.928%
160.0	1.243	.273	1055.369	.026%	99.954%
165.0	1.294	.209	1055.578	.020%	99.973%
170.0	1.333	.156	1055.734	.015%	99.988%
175.0	1.320	.095	1055.829	.009%	99.997%
180.0	1.339	.032	1055.860	.003%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	297.71	28.20%	28.20%
0-40	483.07	45.75%	45.75%
0-60	838.56	79.42%	79.42%
0-90	1048.87	99.34%	99.34%
0-120	1052.04	99.64%	99.64%
0-180	1055.86	100.00%	100.00%
60-90	289.67	27.43%	27.43%
90-120	6.97	0.66%	0.66%
90-130	7.99	0.76%	0.76%
90-150	9.69	0.92%	0.92%
90-180	10.76	1.02%	1.02%
0-60.45	844.69	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	36.77
10-20	104.58
20-30	156.35
30-40	185.36
40-50	188.50
50-60	166.99
60-70	124.53
70-80	68.71
80-90	17.06
90-100	1.06
100-110	1.06
110-120	1.04
120-130	1.02
130-140	0.91
140-150	0.79
150-160	0.61
160-170	0.36
170-180	0.09



C0/C180: —

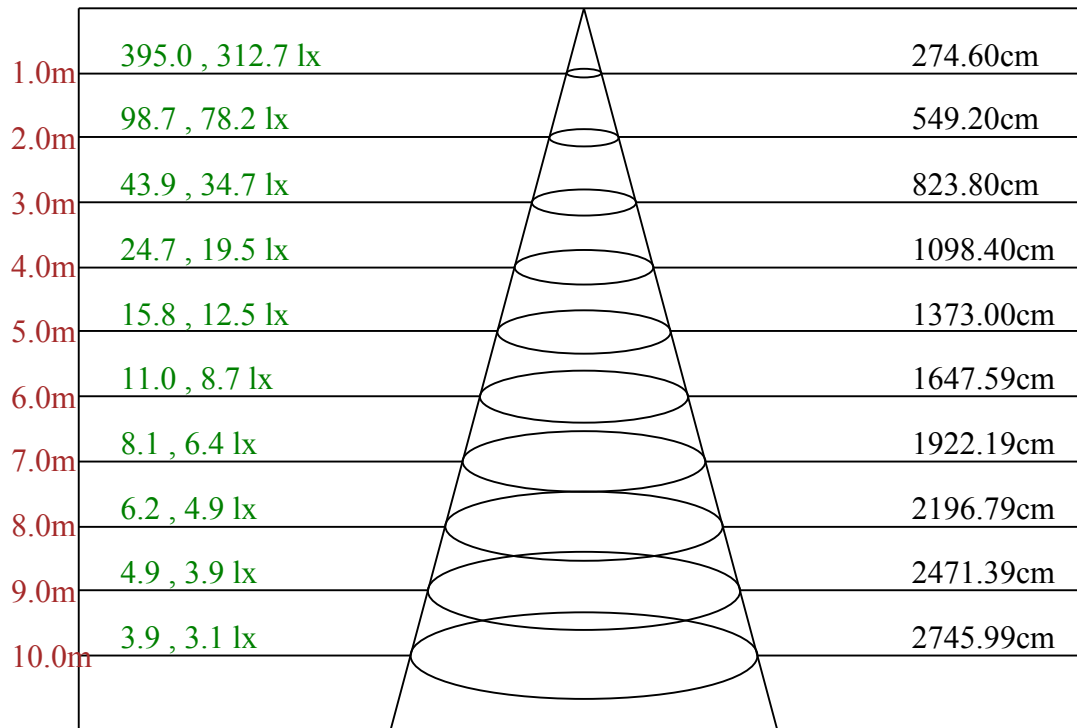
C90/C270: —

Field angle(10%Imax):C0/180Left:75.2 Right:83.6

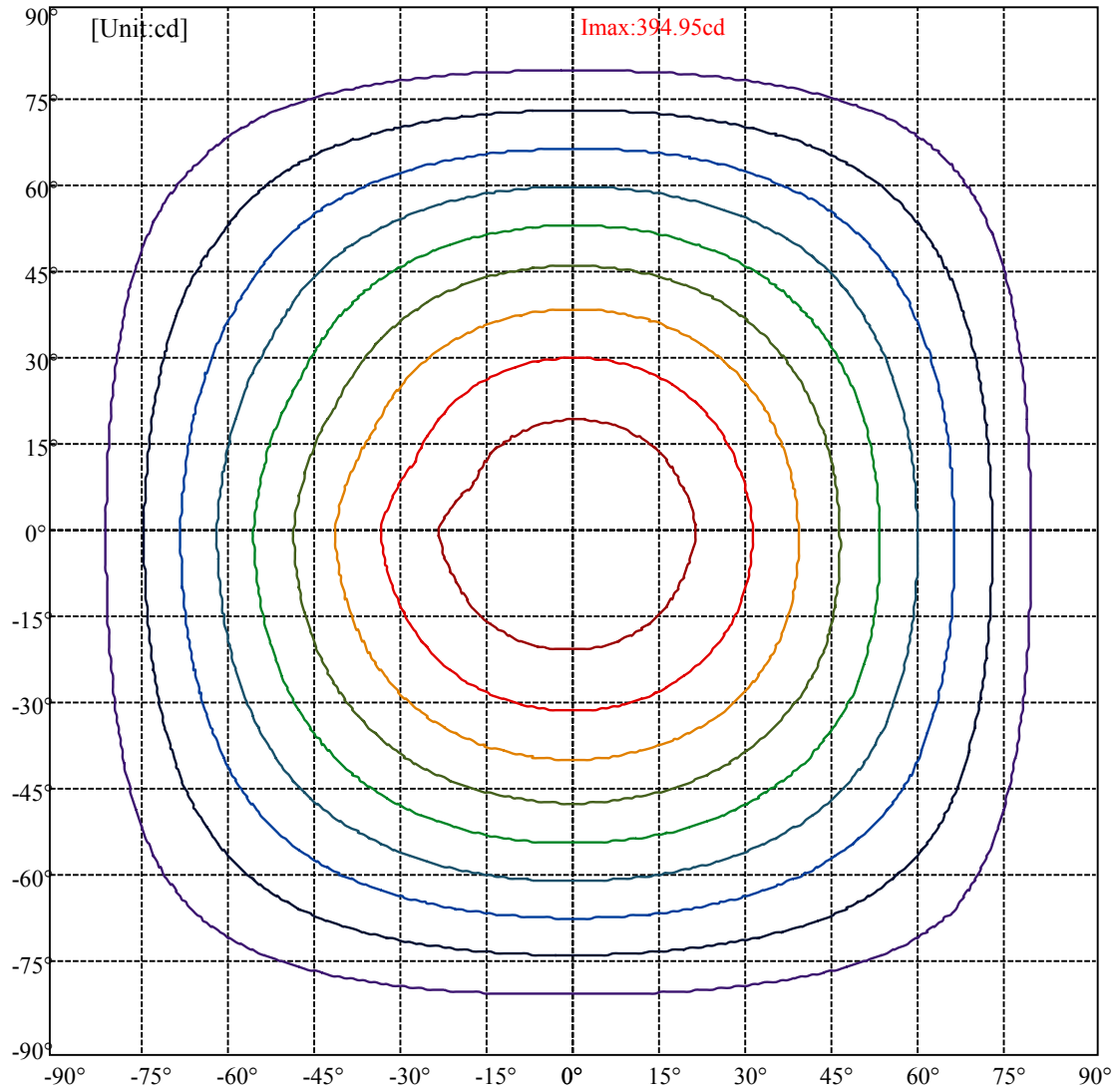
:C90/270Left:79.9 Right:79.1

Beam Angle(50%Imax):C0/180Left:49.9 Right:57.7

:C90/270Left:54.3 Right:52.9



Max , Ave Beam angle of C180plane107.81



(10%Imax) 39.495	—
(20%Imax) 78.99	—
(30%Imax) 118.485	—
(40%Imax) 157.98	—
(50%Imax) 197.475	—
(60%Imax) 236.97	—
(70%Imax) 276.465	—
(80%Imax) 315.96	—
(90%Imax) 355.455	—

Intensity data(cd)

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C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	389.17	393.31	385.52	375.06	359.68	340.61	320.10	296.52	269.66
22.5	389.17	388.59	381.42	370.75	356.19	337.94	316.82	294.68	267.61
45.0	389.17	386.95	379.98	369.73	354.76	337.33	316.00	292.42	267.40
67.5	389.17	385.93	379.16	367.88	353.53	336.51	315.18	291.80	266.58
90.0	389.17	385.31	378.14	367.47	352.50	335.07	314.16	291.19	266.58
112.5	389.17	384.49	377.73	367.06	352.30	335.48	314.16	290.57	266.17
135.0	389.17	384.29	377.93	367.06	352.91	334.66	314.16	291.19	265.35
157.5	389.17	383.47	377.32	366.04	351.89	334.25	312.93	290.37	264.94
180.0	389.17	394.95	389.00	379.37	366.24	349.02	329.13	307.39	281.14
202.5	389.17	390.85	385.31	375.67	362.35	344.10	325.02	302.67	277.66
225.0	389.17	388.80	382.85	373.21	359.89	343.07	322.77	300.62	276.01
247.5	389.17	386.95	381.21	371.16	358.86	340.81	321.33	298.78	274.17
270.0	389.17	386.54	381.01	371.57	357.01	340.40	320.72	298.78	273.76
292.5	389.17	386.13	380.19	370.75	357.42	339.17	320.92	298.16	273.55
315.0	389.17	385.52	380.19	370.34	357.42	340.61	321.13	298.37	275.40
337.5	389.17	385.52	380.39	370.75	357.42	340.20	321.74	299.39	274.37
360.0	389.17	393.31	385.52	375.06	359.68	340.61	320.10	296.52	269.66
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	241.77	213.47	183.53	152.57	121.19	91.25	60.29	31.79	9.43
22.5	239.72	212.24	182.51	151.95	121.60	90.64	61.31	32.81	10.66
45.0	240.33	211.62	181.89	152.36	122.01	91.25	61.31	33.02	11.48
67.5	239.92	211.42	182.51	151.75	122.83	92.07	61.93	34.04	11.07
90.0	239.31	211.01	182.30	152.36	121.60	91.66	62.34	33.84	11.28
112.5	239.31	211.01	181.07	151.95	121.40	91.46	61.31	34.04	11.28
135.0	238.28	211.01	180.87	150.93	120.37	91.25	61.11	32.81	11.48
157.5	237.46	208.96	180.25	150.31	119.76	89.61	60.49	32.20	10.66
180.0	254.07	225.36	196.66	165.28	133.50	102.33	70.75	40.60	16.00
202.5	251.00	222.90	193.17	163.23	131.86	100.28	68.90	38.96	15.38
225.0	249.36	220.85	191.12	160.56	130.01	98.64	68.29	38.55	14.76
247.5	247.31	219.42	190.91	160.56	128.78	97.00	67.47	38.76	14.15
270.0	248.13	219.42	190.30	159.54	129.19	97.82	66.65	38.14	13.94
292.5	247.31	219.62	190.30	159.74	128.78	97.61	66.65	38.35	13.94
315.0	247.51	219.62	190.50	160.36	129.39	98.02	68.29	38.35	14.76
337.5	247.72	220.65	191.53	160.97	130.01	99.66	68.70	39.37	14.97
360.0	241.77	213.47	183.53	152.57	121.19	91.25	60.29	31.79	9.43
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.21	0.21	0.41	0.21	0.21	0.41	0.62	0.41
22.5	0.82	0.82	0.82	0.82	1.03	1.03	1.03	0.82	1.23
45.0	0.82	0.82	0.82	1.03	1.03	1.23	1.03	0.82	0.82
67.5	0.82	1.03	0.62	0.82	1.23	0.82	1.03	1.23	1.03
90.0	0.82	1.03	1.03	1.03	1.03	0.82	1.03	1.03	1.23
112.5	1.03	0.62	1.03	0.82	1.03	1.03	1.03	1.03	1.23
135.0	0.82	1.03	0.82	0.82	0.82	1.03	1.03	1.23	1.23
157.5	0.82	0.82	0.82	1.03	1.03	1.03	1.23	1.23	1.03
180.0	1.64	1.03	1.03	1.03	1.44	1.03	1.03	1.03	1.44
202.5	1.23	1.23	0.82	1.23	1.03	1.23	1.03	1.44	1.03
225.0	1.23	1.03	1.23	1.23	1.03	1.03	1.23	1.23	1.44
247.5	1.23	1.03	1.03	1.23	1.44	1.23	1.44	1.03	1.23
270.0	1.23	1.23	1.23	1.23	1.03	1.23	1.23	1.44	1.44
292.5	1.23	1.03	1.23	1.23	1.23	1.03	1.23	1.44	1.23
315.0	1.44	1.23	1.23	1.03	1.23	1.23	1.44	1.23	1.44
337.5	1.64	1.03	1.23	1.23	1.03	1.23	1.23	1.44	1.44
360.0	0.00	0.21	0.21	0.41	0.21	0.21	0.41	0.62	0.41

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	0.62	0.41	0.62	0.62	0.62	0.62	0.62	0.62	0.62
22.5	1.03	1.03	1.03	1.44	1.23	1.03	1.44	1.44	1.44
45.0	1.23	1.23	1.44	1.44	1.23	1.23	1.44	1.44	1.23
67.5	1.03	1.23	1.23	1.23	1.23	1.44	1.23	1.64	1.44
90.0	1.03	1.03	1.03	1.23	1.44	1.44	1.44	1.23	1.44
112.5	1.23	1.23	1.44	1.23	1.44	1.23	1.23	1.44	1.23
135.0	1.23	1.03	1.23	1.23	1.44	1.23	1.23	1.44	1.44
157.5	1.23	1.23	1.44	1.23	1.44	1.23	1.44	1.23	1.44
180.0	1.23	1.23	1.23	1.23	1.23	1.23	1.03	1.23	1.23
202.5	1.23	1.44	1.23	1.44	1.64	1.23	1.23	1.23	1.44
225.0	1.23	1.44	1.23	1.44	1.64	1.23	1.44	1.44	1.23
247.5	1.23	1.44	1.44	1.44	1.44	1.23	1.44	1.44	1.44
270.0	1.23	1.44	1.44	1.44	1.64	1.44	1.44	1.44	1.44
292.5	1.23	1.23	1.44	1.64	1.23	1.44	1.44	1.44	1.44
315.0	1.23	1.44	1.44	1.23	1.44	1.23	1.23	1.44	1.23
337.5	1.44	1.23	1.44	1.23	1.44	1.44	1.44	1.23	1.44
360.0	0.62	0.41	0.62	0.62	0.62	0.62	0.62	0.62	0.62
C/γ(°)	180.0								
0.0	1.34								
22.5	1.34								
45.0	1.34								
67.5	1.34								
90.0	1.34								
112.5	1.34								
135.0	1.34								
157.5	1.34								
180.0	1.34								
202.5	1.34								
225.0	1.34								
247.5	1.34								
270.0	1.34								
292.5	1.34								
315.0	1.34								
337.5	1.34								
360.0	1.34								