



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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LumCAT:

Luminaire: ASD-LMAL-1250D50-MRN

Report No:

Voltage(V): 220.18

Test No:

Current(A): 5.8165

LampCAT:

Power (W): 1263.0000

Lamp flux(lm): 166303

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): 166303

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 117.78

Central intensity(cd): 43243.000

Maximum intensity(cd): 50112.600

Angle of maximum intensity: C=45.0 γ =35.0

Beam Angle(50%Imax): [C0/180]Total=116.5

[C90/270]Total=117.5

Field angle(10%Imax): [C0/180]Total=144.4

[C90/270]Total=144.7

Maximum s/h(1/2): C0_180=1.66 C90_270=1.72

Maximum s/h(1/4): C0_180=2.36 C90_270=1.70

Up flux rate of lamp(%): 0.14%

Down flux rate of lamp(%): 99.86%

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 : 88.726%

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

Date:
Humidity(%): 58%

Operator: Zac

Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	43243.000	.000	.000	.000%	.000%
5.0	43269.100	1034.227	1034.227	.695%	.695%
10.0	43611.010	3107.975	4142.202	2.089%	2.785%
15.0	44224.370	5210.335	9352.537	3.503%	6.287%
20.0	45163.980	7366.856	16719.390	4.952%	11.240%
25.0	46244.540	9587.066	26306.460	6.445%	17.685%
30.0	47353.800	11844.950	38151.410	7.963%	25.648%
35.0	48191.610	14069.730	52221.140	9.459%	35.106%
40.0	48324.730	16103.020	68324.160	10.825%	45.932%
45.0	46651.700	17585.660	85909.810	11.822%	57.754%
50.0	41298.520	17771.630	103681.400	11.947%	69.701%
55.0	32373.520	16018.750	119700.200	10.769%	80.470%
60.0	20755.750	12280.680	131980.900	8.256%	88.726%
65.0	11821.880	7919.683	139900.600	5.324%	94.050%
70.0	6361.429	4604.130	144504.700	3.095%	97.145%
75.0	3071.459	2465.605	146970.300	1.658%	98.803%
80.0	1164.674	1133.471	148103.800	.762%	99.565%
85.0	217.233	375.497	148479.300	.252%	99.817%
90.0	12.111	62.796	148542.100	.042%	99.859%
95.0	10.388	6.160	148548.200	.004%	99.863%
100.0	11.980	6.078	148554.300	.004%	99.867%
105.0	15.973	7.480	148561.800	.005%	99.873%
110.0	21.768	9.865	148571.600	.007%	99.879%
115.0	28.084	12.623	148584.300	.008%	99.888%
120.0	34.296	15.165	148599.400	.010%	99.898%
125.0	40.116	17.200	148616.600	.012%	99.909%
130.0	45.467	18.609	148635.300	.013%	99.922%
135.0	49.826	19.255	148654.500	.013%	99.935%
140.0	52.644	18.973	148673.500	.013%	99.948%
145.0	53.715	17.745	148691.200	.012%	99.960%
150.0	54.315	15.908	148707.100	.011%	99.970%
155.0	54.393	13.757	148720.900	.009%	99.979%
160.0	52.853	11.248	148732.100	.008%	99.987%
165.0	51.183	8.574	148740.700	.006%	99.993%
170.0	50.060	6.006	148746.700	.004%	99.997%
175.0	49.147	3.549	148750.300	.002%	99.999%
180.0	50.043	1.186	148751.400	.001%	100.000%

Equipment: GMS-3000
Temperature($^{\circ}$ C): 25

Date:
Humidity(%): 58%

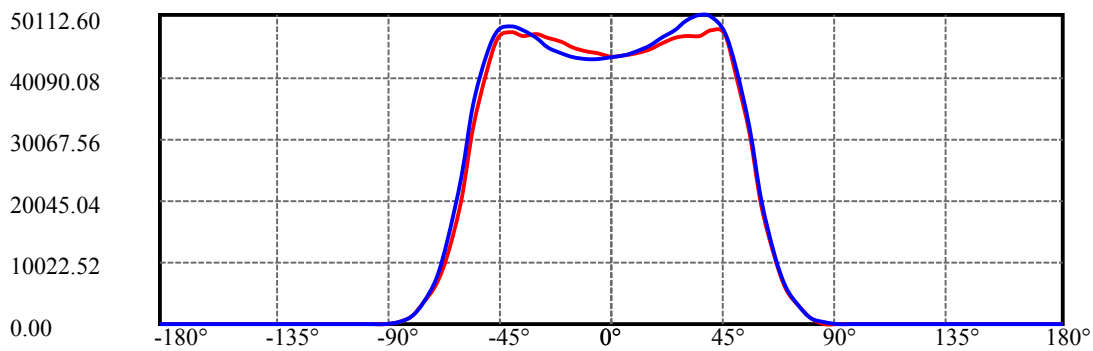
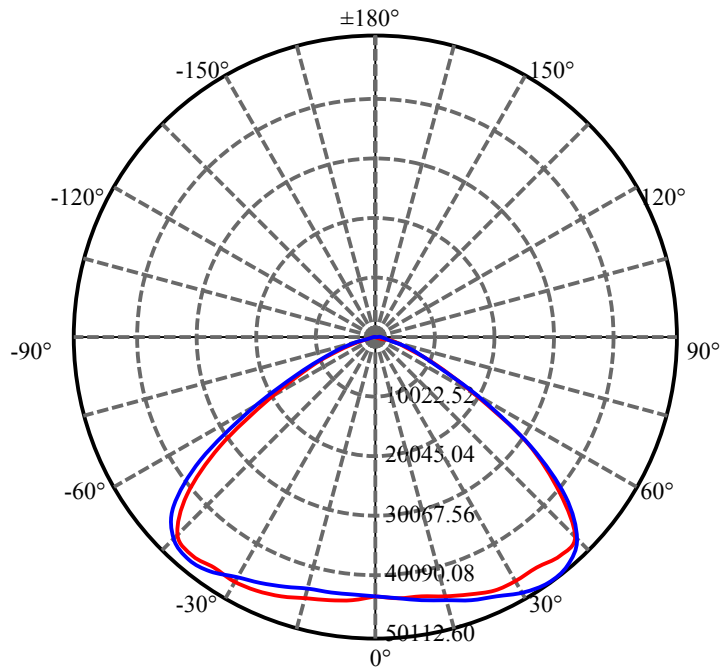
Operator: Zac

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	38151.41	25.65%	25.65%
0-40	68324.16	45.93%	45.93%
0-60	131980.90	88.73%	88.73%
0-90	148542.10	99.86%	99.86%
0-120	148599.40	99.90%	99.90%
0-180	148751.40	100.00%	100.00%
60-90	28841.86	19.39%	19.39%
90-120	120.17	0.08%	0.08%
90-130	155.97	0.10%	0.10%
90-150	227.86	0.15%	0.15%
90-180	270.99	0.18%	0.18%
0-54.78	119001.10	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	4142.20
10-20	12577.19
20-30	21432.01
30-40	30172.75
40-50	35357.28
50-60	28299.44
60-70	12523.81
70-80	3599.08
80-90	438.29
90-100	12.24
100-110	17.34
110-120	27.79
120-130	35.81
130-140	38.23
140-150	33.65
150-160	25.01
160-170	14.58
170-180	3.55

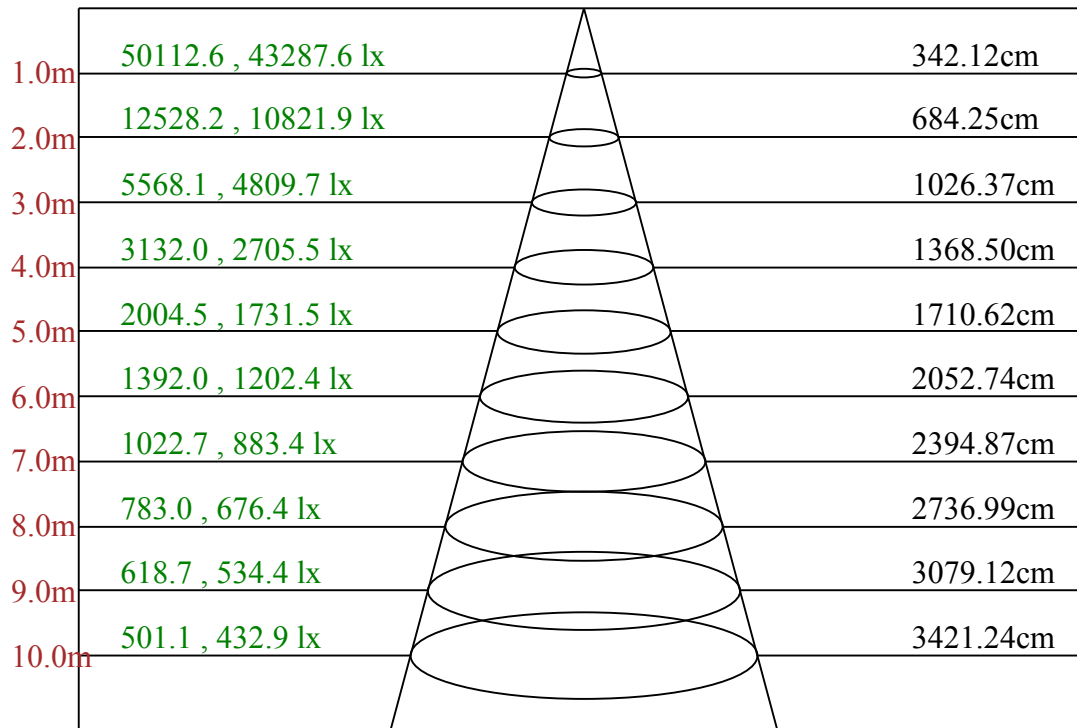


C0/C180: —

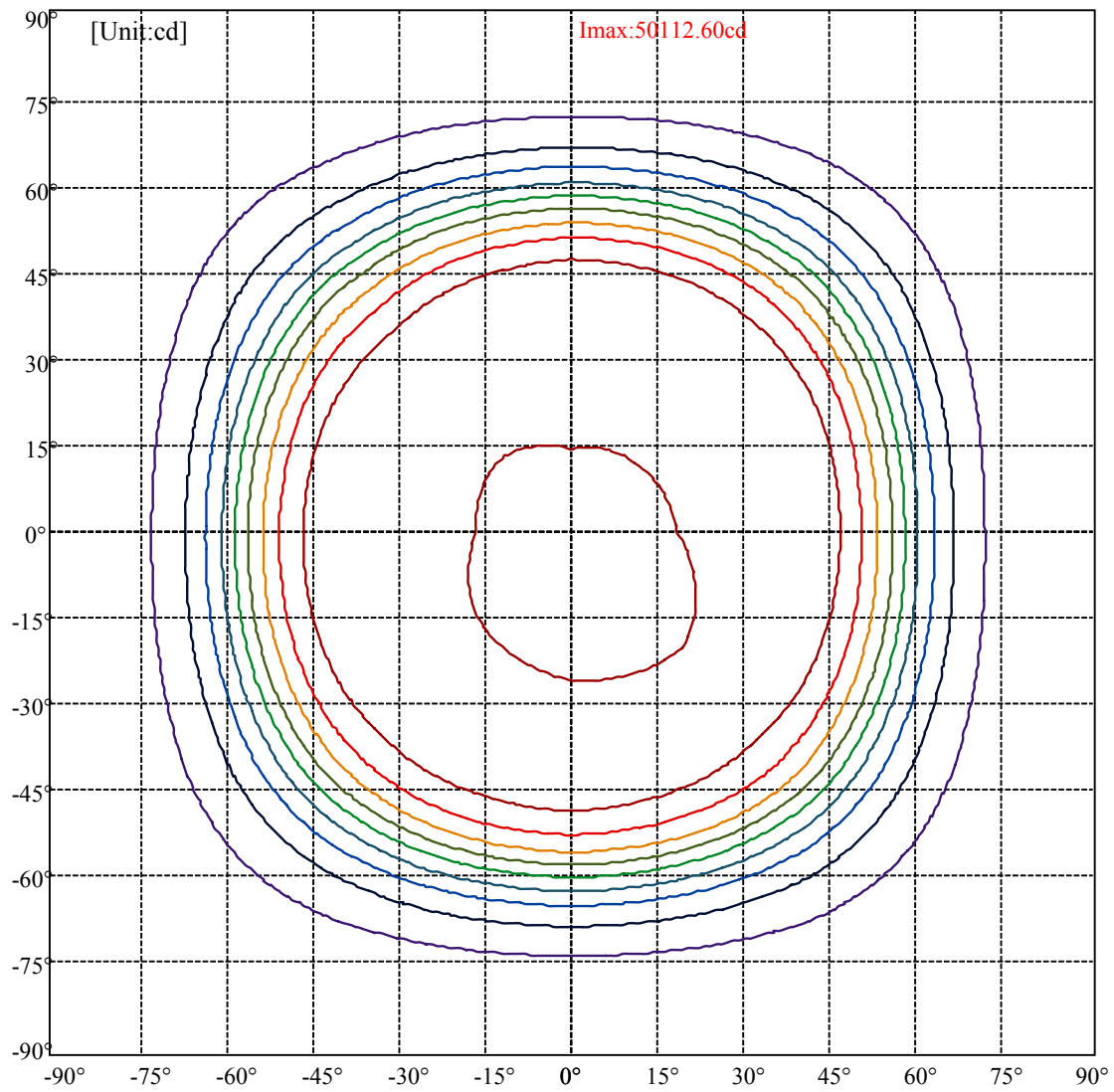
C90/C270: —

Field angle(10%Imax):C0/180Left:112.7 Right:31.7
 :C90/270Left:108.1 Right:36.6

Beam Angle(50%Imax):C0/180Left:98.5 Right:18.0
 :C90/270Left:94.6 Right:22.9



Max , Ave Beam angle of C45plane119.37



(10%Imax) 5010.42	—
(20%Imax) 10020.8	—
(30%Imax) 15031.3	—
(40%Imax) 20041.7	—
(50%Imax) 25052.1	—
(60%Imax) 30062.5	—
(70%Imax) 35072.9	—
(80%Imax) 40083.3	—
(90%Imax) 45093.8	—

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	43243.00	43577.08	43890.28	44474.93	45456.30	46458.55	46813.52	46750.88	47523.45
45.0	43243.00	43514.44	44036.45	44829.89	45873.91	47210.25	48797.14	50112.60	49653.23
90.0	43243.00	43639.72	44266.13	45226.62	46437.67	47711.37	49172.99	50070.84	49736.75
135.0	43243.00	43013.31	43639.72	44537.57	45665.11	46938.80	48087.21	48776.26	47920.17
180.0	43243.00	43806.76	44245.25	44850.78	45790.39	46479.44	46959.68	46813.52	47293.77
225.0	43243.00	43222.12	43430.92	43869.41	44662.85	45748.63	46959.68	47961.93	48254.26
270.0	43243.00	43013.31	42992.43	43305.64	43994.68	44955.18	46228.87	47669.61	48254.26
315.0	43243.00	42366.02	42386.91	42700.11	43430.92	44454.05	45811.27	47377.29	47961.93
360.0	43243.00	43577.08	43890.28	44474.93	45456.30	46458.55	46813.52	46750.88	47523.45

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	46917.92	40060.85	30706.49	19197.30	10912.02	5723.28	2859.13	1002.88	84.77
45.0	46730.00	41063.10	31527.09	19685.90	11158.41	5894.49	2816.54	1034.41	141.57
90.0	47419.05	41340.80	31629.40	20291.43	11315.01	6063.63	2669.12	905.16	178.94
135.0	45101.34	39002.21	29612.37	18025.92	10220.88	5464.36	2577.46	973.23	134.05
180.0	46500.31	40653.84	31633.58	20358.24	11525.90	6431.12	3328.31	1361.39	262.05
225.0	46500.31	42219.86	33742.48	21945.14	12590.79	6798.61	3351.28	1332.16	299.42
270.0	47606.97	43660.60	35579.94	24033.17	14010.65	7454.25	3553.82	1355.13	329.07
315.0	46437.67	42386.91	34556.81	22508.91	12841.35	7061.70	3416.01	1353.04	307.98
360.0	46917.92	40060.85	30706.49	19197.30	10912.02	5723.28	2859.13	1002.88	84.77

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	12.53	11.07	12.95	17.12	23.39	30.07	36.75	43.43	49.70
45.0	13.57	11.69	13.16	17.12	22.97	29.23	34.66	39.88	44.89
90.0	11.69	10.44	12.74	16.91	22.76	29.23	34.87	39.67	43.64
135.0	11.28	10.65	12.95	17.75	23.80	30.28	36.33	41.97	46.56
180.0	11.90	10.02	11.48	15.66	21.30	27.77	34.66	41.55	48.23
225.0	11.28	9.61	11.07	15.45	21.09	27.35	34.24	40.51	45.94
270.0	11.48	9.19	10.44	13.78	19.63	25.68	31.95	37.38	42.60
315.0	13.16	10.44	11.07	13.99	19.21	25.06	30.90	36.54	42.18
360.0	12.53	11.07	12.95	17.12	23.39	30.07	36.75	43.43	49.70

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	54.29	56.79	57.84	58.05	58.26	56.79	54.08	51.99	49.90
45.0	49.28	51.78	52.62	53.45	53.04	51.16	49.90	49.07	49.07
90.0	47.19	49.28	49.90	49.70	49.28	48.03	47.40	47.82	48.44
135.0	50.11	52.41	53.04	54.08	54.50	53.66	52.83	51.37	49.90
180.0	53.45	56.59	57.42	58.05	58.47	56.79	54.08	51.78	49.49
225.0	50.11	53.04	54.08	54.92	55.96	54.50	53.04	51.57	49.70
270.0	46.77	50.11	51.57	51.99	51.37	49.28	47.82	47.61	48.44
315.0	47.40	51.16	53.25	54.29	54.29	52.62	50.32	49.28	48.23
360.0	54.29	56.79	57.84	58.05	58.26	56.79	54.08	51.99	49.90

C/γ(°)	180.0
0.0	50.04
45.0	50.04
90.0	50.04
135.0	50.04
180.0	50.04
225.0	50.04
270.0	50.04
315.0	50.04
360.0	50.04