
AFX

LumCAT: CRRF6450I30SN

Luminaire: LED LAMP

Report No:

Voltage(V): 120.0000

Test No:

Current(A): 0.3060

LampCAT:

Power (W): 36.4300

Lamp flux(lm): 2901.7

PF: 0.9920

Number of Lamps: 1

Ballast type:

Length(mm): 1280

Width(mm): 55

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2901.69

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 79.65

Central intensity(cd): 9859.467

Maximum intensity(cd): 9859.467

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50% I_{max}): [C0/180]Total=28.4

[C90/270]Total=28.4

Field angle(10% I_{max}): [C0/180]Total=51.9

[C90/270]Total=52.0

Maximum s/h(1/2): C0_180=0.48 C90_270=0.48

Maximum s/h(1/4): C0_180=0.48 C90_270=0.48

Up flux rate of lamp(%): 0.42%

Down flux rate of lamp(%): 99.58%

Up flux rate of LUM(%): 0.42%

Down flux rate of LUM(%): 99.58%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.285%

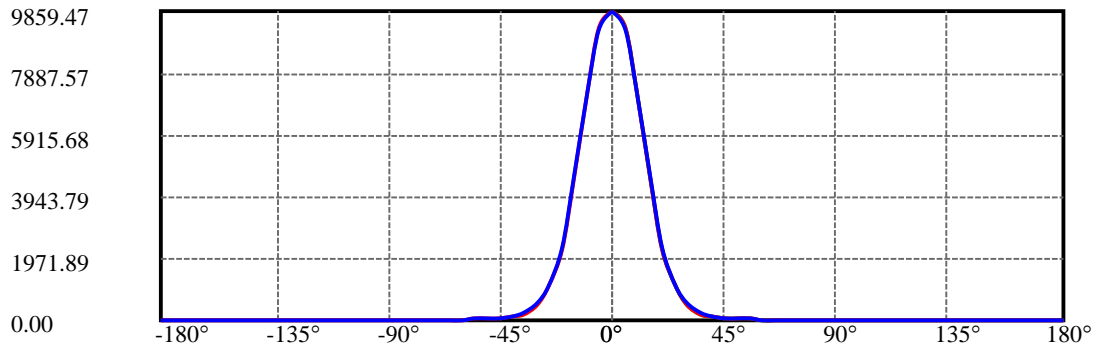
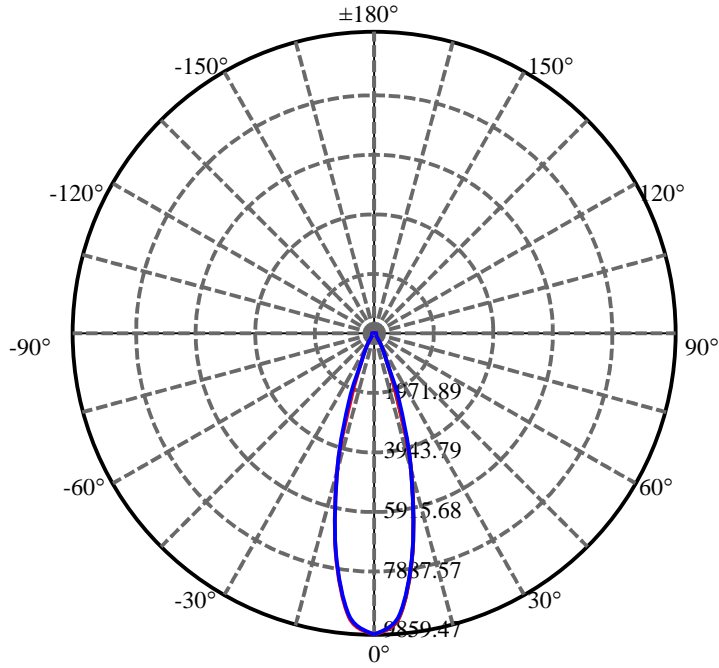
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9859.468	.000	.000	.000%	.000%
5.0	9207.870	227.945	227.945	7.856%	7.856%
10.0	7126.742	584.341	812.285	20.138%	27.994%
15.0	4435.561	685.868	1498.153	23.637%	51.630%
20.0	2269.218	552.568	2050.721	19.043%	70.673%
25.0	1100.743	353.447	2404.168	12.181%	82.854%
30.0	507.677	203.547	2607.715	7.015%	89.869%
35.0	231.343	108.826	2716.540	3.750%	93.619%
40.0	99.807	55.250	2771.790	1.904%	95.523%
45.0	57.742	29.171	2800.961	1.005%	96.529%
50.0	42.597	20.275	2821.236	.699%	97.227%
55.0	33.634	16.575	2837.812	.571%	97.799%
60.0	27.375	14.102	2851.913	.486%	98.285%
65.0	22.535	12.133	2864.047	.418%	98.703%
70.0	17.775	10.207	2874.253	.352%	99.054%
75.0	11.848	7.743	2881.996	.267%	99.321%
80.0	5.922	4.755	2886.751	.164%	99.485%
85.0	2.097	2.179	2888.930	.075%	99.560%
90.0	.337	.666	2889.596	.023%	99.583%
95.0	.000	.092	2889.689	.003%	99.586%
100.0	.000	.000	2889.689	.000%	99.586%
105.0	.000	.000	2889.689	.000%	99.586%
110.0	.000	.000	2889.689	.000%	99.586%
115.0	.000	.000	2889.689	.000%	99.586%
120.0	.259	.063	2889.751	.002%	99.589%
125.0	.334	.137	2889.888	.005%	99.593%
130.0	.333	.145	2890.033	.005%	99.598%
135.0	.784	.226	2890.259	.008%	99.606%
140.0	1.833	.485	2890.744	.017%	99.623%
145.0	3.634	.912	2891.656	.031%	99.654%
150.0	5.774	1.385	2893.042	.048%	99.702%
155.0	8.442	1.799	2894.841	.062%	99.764%
160.0	10.771	2.015	2896.856	.069%	99.833%
165.0	12.425	1.912	2898.767	.066%	99.899%
170.0	13.622	1.545	2900.313	.053%	99.953%
175.0	14.779	1.016	2901.329	.035%	99.988%
180.0	15.224	.359	2901.687	.012%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2607.72	89.87%	89.87%
0-40	2771.79	95.52%	95.52%
0-60	2851.91	98.28%	98.28%
0-90	2889.60	99.58%	99.58%
0-120	2889.75	99.59%	99.59%
0-180	2901.69	100.00%	100.00%
60-90	51.78	1.78%	1.78%
90-120	0.82	0.03%	0.03%
90-130	1.10	0.04%	0.04%
90-150	4.11	0.14%	0.14%
90-180	12.40	0.43%	0.43%
0-23.83	2321.35	80.00%	80.00%

ZONAL LUMEN SUMMARY

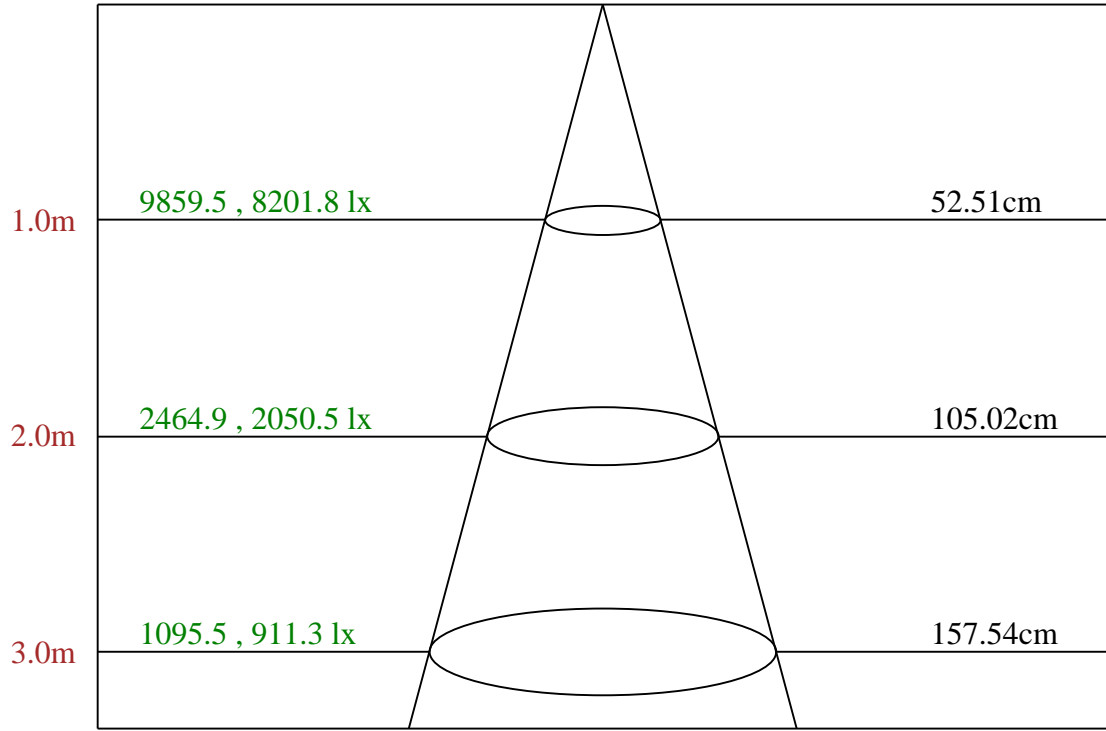
0-10	812.29
10-20	1238.44
20-30	556.99
30-40	164.08
40-50	49.45
50-60	30.68
60-70	22.34
70-80	12.50
80-90	2.85
90-100	0.09
100-110	0.00
110-120	0.06
120-130	0.28
130-140	0.71
140-150	2.30
150-160	3.81
160-170	3.46
170-180	1.02



C0(Max): ———
C0/C180: ———
C90/C270: ———

Field angle(10% I_{max}): C0/180Left:25.9 Right:25.9
:C90/270Left:26.0 Right:26.0

Beam Angle(50% I_{max}): C0/180Left:14.2 Right:14.2
:C90/270Left:14.2 Right:14.2



Max , Ave Beam angle of C0plane29.42

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	9859.47	9309.53	7255.48	4495.51	2270.47	1097.25	505.49	208.86	96.30
15.0	9859.47	9173.77	7146.45	4375.11	2244.53	1076.18	488.95	207.62	93.91
30.0	9859.47	9200.31	7086.41	4406.09	2177.61	1080.64	496.45	222.30	101.08
45.0	9859.47	9207.37	7111.99	4404.85	2263.07	1113.81	516.12	246.32	103.94
60.0	9859.47	9201.70	7088.52	4453.24	2330.11	1112.89	516.50	243.60	102.22
75.0	9859.47	9191.09	7101.51	4470.55	2310.14	1120.61	514.33	243.34	100.59
90.0	9859.47	9236.48	7195.66	4511.55	2309.23	1103.42	521.93	240.89	97.89
105.0	9859.47	9191.09	7101.51	4470.55	2310.14	1120.61	514.33	243.34	100.59
120.0	9859.47	9201.70	7088.52	4453.24	2330.11	1112.89	516.50	243.60	102.22
135.0	9859.47	9207.37	7111.99	4404.85	2263.07	1113.81	516.12	246.32	103.94
150.0	9859.47	9200.31	7086.41	4406.09	2177.61	1080.64	496.45	222.30	101.08
165.0	9859.47	9173.77	7146.45	4375.11	2244.53	1076.18	488.95	207.62	93.91
180.0	9859.47	9309.53	7255.48	4495.51	2270.47	1097.25	505.49	208.86	96.30
195.0	9859.47	9173.77	7146.45	4375.11	2244.53	1076.18	488.95	207.62	93.91
210.0	9859.47	9200.31	7086.41	4406.09	2177.61	1080.64	496.45	222.30	101.08
225.0	9859.47	9207.37	7111.99	4404.85	2263.07	1113.81	516.12	246.32	103.94
240.0	9859.47	9201.70	7088.52	4453.24	2330.11	1112.89	516.50	243.60	102.22
255.0	9859.47	9191.09	7101.51	4470.55	2310.14	1120.61	514.33	243.34	100.59
270.0	9859.47	9236.48	7195.66	4511.55	2309.23	1103.42	521.93	240.89	97.89
285.0	9859.47	9191.09	7101.51	4470.55	2310.14	1120.61	514.33	243.34	100.59
300.0	9859.47	9201.70	7088.52	4453.24	2330.11	1112.89	516.50	243.60	102.22
315.0	9859.47	9207.37	7111.99	4404.85	2263.07	1113.81	516.12	246.32	103.94
330.0	9859.47	9200.31	7086.41	4406.09	2177.61	1080.64	496.45	222.30	101.08
345.0	9859.47	9173.77	7146.45	4375.11	2244.53	1076.18	488.95	207.62	93.91
360.0	9859.47	9309.53	7255.48	4495.51	2270.47	1097.25	505.49	208.86	96.30

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	59.62	43.43	34.66	28.09	23.26	18.42	12.27	6.56	2.18
15.0	57.05	42.62	33.74	27.53	22.86	17.76	11.99	5.99	2.22
30.0	56.89	42.45	33.78	27.34	22.67	17.78	11.78	5.78	2.00
45.0	58.61	42.94	33.86	27.27	22.50	18.19	11.82	5.91	2.04
60.0	57.96	42.68	33.55	27.62	22.37	17.80	11.64	5.93	2.05
75.0	57.71	42.20	32.85	26.92	22.13	17.34	11.86	5.70	2.05
90.0	56.84	41.95	33.38	27.07	22.10	17.14	11.73	5.86	2.26
105.0	57.71	42.20	32.85	26.92	22.13	17.34	11.86	5.70	2.05
120.0	57.96	42.68	33.55	27.62	22.37	17.80	11.64	5.93	2.05
135.0	58.61	42.94	33.86	27.27	22.50	18.19	11.82	5.91	2.04
150.0	56.89	42.45	33.78	27.34	22.67	17.78	11.78	5.78	2.00
165.0	57.05	42.62	33.74	27.53	22.86	17.76	11.99	5.99	2.22
180.0	59.62	43.43	34.66	28.09	23.26	18.42	12.27	6.56	2.18
195.0	57.05	42.62	33.74	27.53	22.86	17.76	11.99	5.99	2.22
210.0	56.89	42.45	33.78	27.34	22.67	17.78	11.78	5.78	2.00
225.0	58.61	42.94	33.86	27.27	22.50	18.19	11.82	5.91	2.04
240.0	57.96	42.68	33.55	27.62	22.37	17.80	11.64	5.93	2.05
255.0	57.71	42.20	32.85	26.92	22.13	17.34	11.86	5.70	2.05
270.0	56.84	41.95	33.38	27.07	22.10	17.14	11.73	5.86	2.26
285.0	57.71	42.20	32.85	26.92	22.13	17.34	11.86	5.70	2.05
300.0	57.96	42.68	33.55	27.62	22.37	17.80	11.64	5.93	2.05
315.0	58.61	42.94	33.86	27.27	22.50	18.19	11.82	5.91	2.04
330.0	56.89	42.45	33.78	27.34	22.67	17.78	11.78	5.78	2.00
345.0	57.05	42.62	33.74	27.53	22.86	17.76	11.99	5.99	2.22
360.0	59.62	43.43	34.66	28.09	23.26	18.42	12.27	6.56	2.18

Intensity data(cd)

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	0.88	0.88	0.88
15.0	0.44	0.00	0.00	0.00	0.00	0.00	0.66	0.66	0.89
30.0	0.22	0.00	0.00	0.00	0.00	0.00	0.45	0.67	0.67
45.0	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00
60.0	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00
150.0	0.22	0.00	0.00	0.00	0.00	0.00	0.45	0.67	0.67
165.0	0.44	0.00	0.00	0.00	0.00	0.00	0.66	0.66	0.89
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.88
195.0	0.44	0.00	0.00	0.00	0.00	0.00	0.66	0.66	0.89
210.0	0.22	0.00	0.00	0.00	0.00	0.00	0.45	0.67	0.67
225.0	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00
240.0	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00
330.0	0.22	0.00	0.00	0.00	0.00	0.00	0.45	0.67	0.67
345.0	0.44	0.00	0.00	0.00	0.00	0.00	0.66	0.66	0.89
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.88

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.31	2.19	3.95	6.14	7.90	10.10	11.41	13.19	14.94
15.0	1.11	2.22	4.00	5.77	7.99	9.99	11.10	13.10	14.87
30.0	0.89	2.22	4.00	5.78	8.45	10.22	11.78	12.89	14.45
45.0	0.91	1.82	3.64	5.91	8.64	10.91	12.73	13.87	14.78
60.0	0.69	1.60	3.42	5.70	8.67	11.41	13.01	13.92	14.83
75.0	0.46	1.37	3.19	5.70	8.67	11.41	13.46	14.37	14.83
90.0	0.00	1.35	3.16	5.41	8.57	11.28	13.53	13.98	14.89
105.0	0.46	1.37	3.19	5.70	8.67	11.41	13.46	14.37	14.83
120.0	0.69	1.60	3.42	5.70	8.67	11.41	13.01	13.92	14.83
135.0	0.91	1.82	3.64	5.91	8.64	10.91	12.73	13.87	14.78
150.0	0.89	2.22	4.00	5.78	8.45	10.22	11.78	12.89	14.45
165.0	1.11	2.22	4.00	5.77	7.99	9.99	11.10	13.10	14.87
180.0	1.31	2.19	3.95	6.14	7.90	10.10	11.41	13.19	14.94
195.0	1.11	2.22	4.00	5.77	7.99	9.99	11.10	13.10	14.87
210.0	0.89	2.22	4.00	5.78	8.45	10.22	11.78	12.89	14.45
225.0	0.91	1.82	3.64	5.91	8.64	10.91	12.73	13.87	14.78
240.0	0.69	1.60	3.42	5.70	8.67	11.41	13.01	13.92	14.83
255.0	0.46	1.37	3.19	5.70	8.67	11.41	13.46	14.37	14.83
270.0	0.00	1.35	3.16	5.41	8.57	11.28	13.53	13.98	14.89
285.0	0.46	1.37	3.19	5.70	8.67	11.41	13.46	14.37	14.83
300.0	0.69	1.60	3.42	5.70	8.67	11.41	13.01	13.92	14.83
315.0	0.91	1.82	3.64	5.91	8.64	10.91	12.73	13.87	14.78
330.0	0.89	2.22	4.00	5.78	8.45	10.22	11.78	12.89	14.45
345.0	1.11	2.22	4.00	5.77	7.99	9.99	11.10	13.10	14.87
360.0	1.31	2.19	3.95	6.14	7.90	10.10	11.41	13.19	14.94

Intensity data(cd)

C/γ(°)	180.0
0.0	15.82
15.0	15.54
30.0	15.56
45.0	15.45
60.0	15.06
75.0	14.60
90.0	14.44
105.0	14.60
120.0	15.06
135.0	15.45
150.0	15.56
165.0	15.54
180.0	15.82
195.0	15.54
210.0	15.56
225.0	15.45
240.0	15.06
255.0	14.60
270.0	14.44
285.0	14.60
300.0	15.06
315.0	15.45
330.0	15.56
345.0	15.54
360.0	15.82