
AFX

LumCAT: CARF4450L30SN

Luminaire: LED 灯具

Report No:

Voltage(V): 120.0000

Test No:

Current(A): 0.2060

LampCAT:

Power (W): 24.2300

Lamp flux(lm): 1922.7

PF: 0.9824

Number of Lamps: 1

Ballast type:

Length(mm): 950

Width(mm): 30

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1922.73

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 79.35

Central intensity(cd): 7720.030

Maximum intensity(cd): 7720.030

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=25.8

[C90/270]Total=26.3

Field angle(10%Imax): [C0/180]Total=47.1

[C90/270]Total=47.7

Maximum s/h(1/2): C0_180=0.44 C90_270=0.45

Maximum s/h(1/4): C0_180=0.44 C90_270=0.44

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

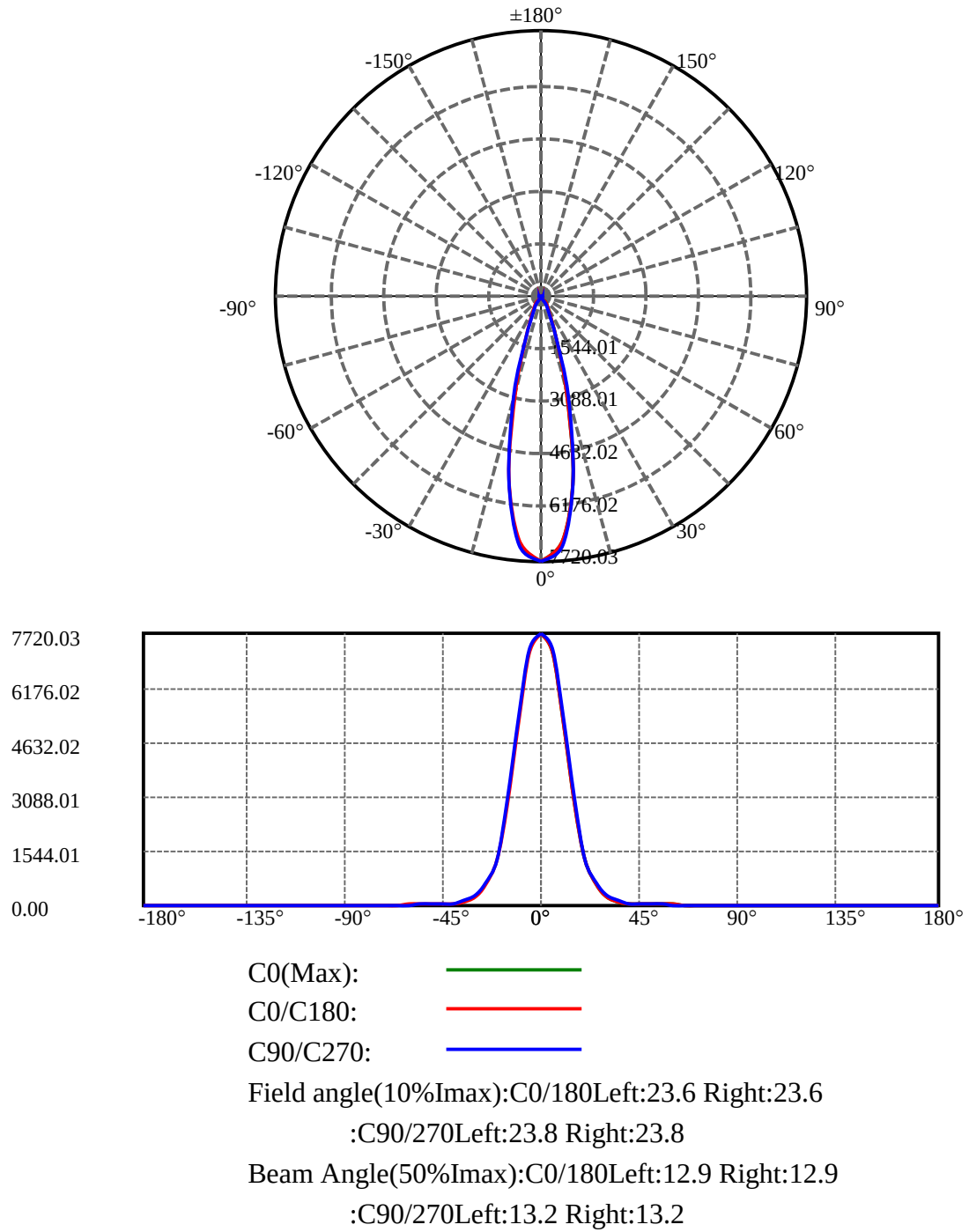
Output flux ratio in π solid angle : 97.879%

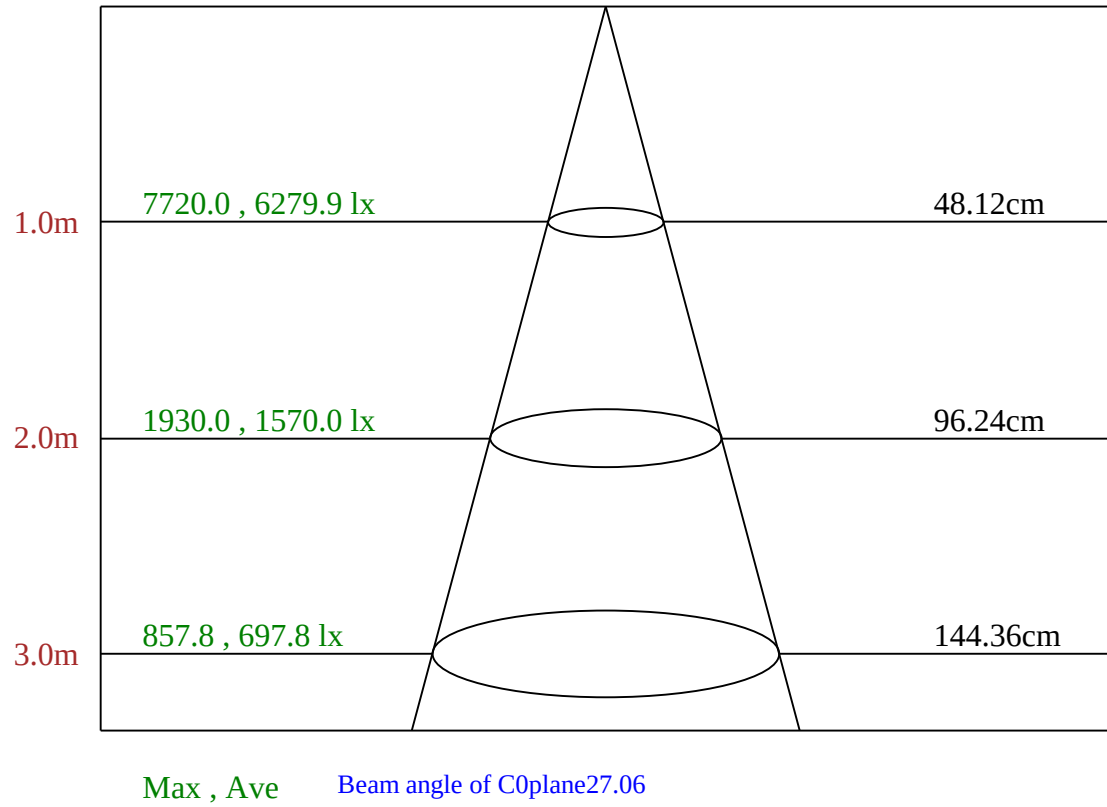
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7720.031	.000	.000	.000%	.000%
5.0	7186.721	178.206	178.206	9.268%	9.268%
10.0	5313.074	447.157	625.363	23.256%	32.525%
15.0	2854.365	484.487	1109.850	25.198%	57.723%
20.0	1256.514	338.794	1448.644	17.620%	75.343%
25.0	565.115	191.055	1639.699	9.937%	85.280%
30.0	240.309	101.927	1741.626	5.301%	90.581%
35.0	115.491	52.394	1794.020	2.725%	93.306%
40.0	60.269	29.324	1823.345	1.525%	94.831%
45.0	42.298	18.991	1842.336	.988%	95.819%
50.0	32.661	15.147	1857.483	.788%	96.607%
55.0	26.852	12.940	1870.423	.673%	97.280%
60.0	23.029	11.530	1881.952	.600%	97.879%
65.0	19.654	10.376	1892.329	.540%	98.419%
70.0	15.905	9.004	1901.333	.468%	98.887%
75.0	10.766	6.971	1908.304	.363%	99.250%
80.0	5.064	4.236	1912.540	.220%	99.470%
85.0	1.276	1.723	1914.262	.090%	99.560%
90.0	.000	.350	1914.612	.018%	99.578%
95.0	.000	.000	1914.612	.000%	99.578%
100.0	.000	.000	1914.612	.000%	99.578%
105.0	.000	.000	1914.612	.000%	99.578%
110.0	.000	.000	1914.612	.000%	99.578%
115.0	.000	.000	1914.612	.000%	99.578%
120.0	.000	.000	1914.612	.000%	99.578%
125.0	.000	.000	1914.612	.000%	99.578%
130.0	.000	.000	1914.612	.000%	99.578%
135.0	.113	.023	1914.635	.001%	99.579%
140.0	.752	.160	1914.795	.008%	99.587%
145.0	2.215	.495	1915.290	.026%	99.613%
150.0	4.164	.939	1916.229	.049%	99.662%
155.0	6.412	1.338	1917.567	.070%	99.732%
160.0	8.362	1.550	1919.117	.081%	99.812%
165.0	9.486	1.471	1920.588	.077%	99.889%
170.0	10.088	1.161	1921.749	.060%	99.949%
175.0	10.318	.730	1922.479	.038%	99.987%
180.0	10.729	.252	1922.731	.013%	100.000%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	1741.63	90.58%	90.58%
0-40	1823.35	94.83%	94.83%
0-60	1881.95	97.88%	97.88%
0-90	1914.61	99.58%	99.58%
0-120	1914.61	99.58%	99.58%
0-180	1922.73	100.00%	100.00%
60-90	44.19	2.30%	2.30%
90-120	0.35	0.02%	0.02%
90-130	0.35	0.02%	0.02%
90-150	1.97	0.10%	0.10%
90-180	8.22	0.43%	0.43%
0-22.34	1538.18	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	625.36
10-20	823.28
20-30	292.98
30-40	81.72
40-50	34.14
50-60	24.47
60-70	19.38
70-80	11.21
80-90	2.07
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.18
140-150	1.43
150-160	2.89
160-170	2.63
170-180	0.73





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	7720.03	7129.51	5283.12	2848.26	1309.07	557.31	249.83	118.51	60.85
15.0	7720.03	7144.47	5240.09	2771.55	1229.09	533.15	224.85	110.61	58.03
30.0	7720.03	7156.52	5249.53	2769.81	1239.60	539.97	219.99	106.94	57.44
45.0	7720.03	7207.34	5283.31	2845.36	1246.98	552.90	233.11	111.52	59.35
60.0	7720.03	7219.47	5383.81	2884.77	1250.58	583.60	248.64	118.51	61.09
75.0	7720.03	7208.84	5374.97	2948.63	1264.57	597.55	257.70	124.08	63.38
90.0	7720.03	7237.86	5410.36	2963.86	1307.50	609.75	265.28	124.06	63.79
105.0	7720.03	7208.84	5374.97	2948.63	1264.57	597.55	257.70	124.08	63.38
120.0	7720.03	7219.47	5383.81	2884.77	1250.58	583.60	248.64	118.51	61.09
135.0	7720.03	7207.34	5283.31	2845.36	1246.98	552.90	233.11	111.52	59.35
150.0	7720.03	7156.52	5249.53	2769.81	1239.60	539.97	219.99	106.94	57.44
165.0	7720.03	7144.47	5240.09	2771.55	1229.09	533.15	224.85	110.61	58.03
180.0	7720.03	7129.51	5283.12	2848.26	1309.07	557.31	249.83	118.51	60.85
195.0	7720.03	7144.47	5240.09	2771.55	1229.09	533.15	224.85	110.61	58.03
210.0	7720.03	7156.52	5249.53	2769.81	1239.60	539.97	219.99	106.94	57.44
225.0	7720.03	7207.34	5283.31	2845.36	1246.98	552.90	233.11	111.52	59.35
240.0	7720.03	7219.47	5383.81	2884.77	1250.58	583.60	248.64	118.51	61.09
255.0	7720.03	7208.84	5374.97	2948.63	1264.57	597.55	257.70	124.08	63.38
270.0	7720.03	7237.86	5410.36	2963.86	1307.50	609.75	265.28	124.06	63.79
285.0	7720.03	7208.84	5374.97	2948.63	1264.57	597.55	257.70	124.08	63.38
300.0	7720.03	7219.47	5383.81	2884.77	1250.58	583.60	248.64	118.51	61.09
315.0	7720.03	7207.34	5283.31	2845.36	1246.98	552.90	233.11	111.52	59.35
330.0	7720.03	7156.52	5249.53	2769.81	1239.60	539.97	219.99	106.94	57.44
345.0	7720.03	7144.47	5240.09	2771.55	1229.09	533.15	224.85	110.61	58.03
360.0	7720.03	7129.51	5283.12	2848.26	1309.07	557.31	249.83	118.51	60.85
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	42.55	32.94	27.91	24.25	20.13	16.47	10.98	5.49	1.37
15.0	42.10	32.54	26.85	23.22	20.03	15.93	10.70	5.01	1.37
30.0	41.56	32.02	26.57	22.71	19.76	16.13	10.90	5.00	1.36
45.0	41.66	31.81	26.21	22.62	19.26	15.68	10.98	4.93	1.34
60.0	42.48	33.04	26.75	22.93	19.33	15.96	10.79	4.95	1.13
75.0	43.15	33.37	27.14	23.13	19.80	15.79	10.45	5.34	1.11
90.0	43.11	33.44	27.28	22.88	19.36	15.40	10.56	4.84	1.32
105.0	43.15	33.37	27.14	23.13	19.80	15.79	10.45	5.34	1.11
120.0	42.48	33.04	26.75	22.93	19.33	15.96	10.79	4.95	1.13
135.0	41.66	31.81	26.21	22.62	19.26	15.68	10.98	4.93	1.34
150.0	41.56	32.02	26.57	22.71	19.76	16.13	10.90	5.00	1.36
165.0	42.10	32.54	26.85	23.22	20.03	15.93	10.70	5.01	1.37
180.0	42.55	32.94	27.91	24.25	20.13	16.47	10.98	5.49	1.37
195.0	42.10	32.54	26.85	23.22	20.03	15.93	10.70	5.01	1.37
210.0	41.56	32.02	26.57	22.71	19.76	16.13	10.90	5.00	1.36
225.0	41.66	31.81	26.21	22.62	19.26	15.68	10.98	4.93	1.34
240.0	42.48	33.04	26.75	22.93	19.33	15.96	10.79	4.95	1.13
255.0	43.15	33.37	27.14	23.13	19.80	15.79	10.45	5.34	1.11
270.0	43.11	33.44	27.28	22.88	19.36	15.40	10.56	4.84	1.32
285.0	43.15	33.37	27.14	23.13	19.80	15.79	10.45	5.34	1.11
300.0	42.48	33.04	26.75	22.93	19.33	15.96	10.79	4.95	1.13
315.0	41.66	31.81	26.21	22.62	19.26	15.68	10.98	4.93	1.34
330.0	41.56	32.02	26.57	22.71	19.76	16.13	10.90	5.00	1.36
345.0	42.10	32.54	26.85	23.22	20.03	15.93	10.70	5.01	1.37
360.0	42.55	32.94	27.91	24.25	20.13	16.47	10.98	5.49	1.37

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	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	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
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	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
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	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
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	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	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	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
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.92	2.29	4.12	6.41	8.24	9.15	9.61	10.98
15.0	0.23	1.14	2.28	4.10	6.37	8.19	9.10	10.01	10.47
30.0	0.23	0.91	2.50	4.31	6.13	8.18	9.32	9.99	10.45
45.0	0.22	0.90	2.46	4.26	6.27	8.29	9.63	9.86	10.30
60.0	0.00	0.45	2.25	4.27	6.52	8.54	9.67	10.34	10.12
75.0	0.00	0.44	1.78	4.00	6.67	8.45	9.79	10.45	10.23
90.0	0.00	0.44	1.76	3.96	6.60	8.80	9.68	10.12	9.68
105.0	0.00	0.44	1.78	4.00	6.67	8.45	9.79	10.45	10.23
120.0	0.00	0.45	2.25	4.27	6.52	8.54	9.67	10.34	10.12
135.0	0.22	0.90	2.46	4.26	6.27	8.29	9.63	9.86	10.30
150.0	0.23	0.91	2.50	4.31	6.13	8.18	9.32	9.99	10.45
165.0	0.23	1.14	2.28	4.10	6.37	8.19	9.10	10.01	10.47
180.0	0.00	0.92	2.29	4.12	6.41	8.24	9.15	9.61	10.98
195.0	0.23	1.14	2.28	4.10	6.37	8.19	9.10	10.01	10.47
210.0	0.23	0.91	2.50	4.31	6.13	8.18	9.32	9.99	10.45
225.0	0.22	0.90	2.46	4.26	6.27	8.29	9.63	9.86	10.30
240.0	0.00	0.45	2.25	4.27	6.52	8.54	9.67	10.34	10.12
255.0	0.00	0.44	1.78	4.00	6.67	8.45	9.79	10.45	10.23
270.0	0.00	0.44	1.76	3.96	6.60	8.80	9.68	10.12	9.68
285.0	0.00	0.44	1.78	4.00	6.67	8.45	9.79	10.45	10.23
300.0	0.00	0.45	2.25	4.27	6.52	8.54	9.67	10.34	10.12
315.0	0.22	0.90	2.46	4.26	6.27	8.29	9.63	9.86	10.30
330.0	0.23	0.91	2.50	4.31	6.13	8.18	9.32	9.99	10.45
345.0	0.23	1.14	2.28	4.10	6.37	8.19	9.10	10.01	10.47
360.0	0.00	0.92	2.29	4.12	6.41	8.24	9.15	9.61	10.98

Intensity data(cd)

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C/ γ (°)	180.0
0.0	10.98
15.0	10.92
30.0	10.90
45.0	10.75
60.0	10.79
75.0	10.23
90.0	10.56
105.0	10.23
120.0	10.79
135.0	10.75
150.0	10.90
165.0	10.92
180.0	10.98
195.0	10.92
210.0	10.90
225.0	10.75
240.0	10.79
255.0	10.23
270.0	10.56
285.0	10.23
300.0	10.79
315.0	10.75
330.0	10.90
345.0	10.92
360.0	10.98