
Client:

LumCAT:

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V):

LampCAT:

Current(A):

Lamp flux(lm): 1037.9

Power (W): 14.768

Number of Lamps: 1

PF:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1037.93, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 70.28

Central intensity(cd): 330.859, Maximum intensity(cd): 333.458

Angle of maximum intensity: C=90.0 $\gamma=5.0$

Beam Angle(50% I_{max}): [C0/180]Total=119.3
[C90/270]Total=119.9

Field angle(10% I_{max}): [C0/180]Total=163.4
[C90/270]Total=163.2

Maximum s/h(1/2): C0_180=1.36 C90_270=1.37

Maximum s/h(1/4): C0_180=1.48 C90_270=1.48

Up flux rate of lamp(%): 0.26%

Down flux rate of lamp(%): 99.74%

Up flux rate of LUM(%): 0.26%

Down flux rate of LUM(%): 99.74%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 77.774%

Zonal flux distribution table

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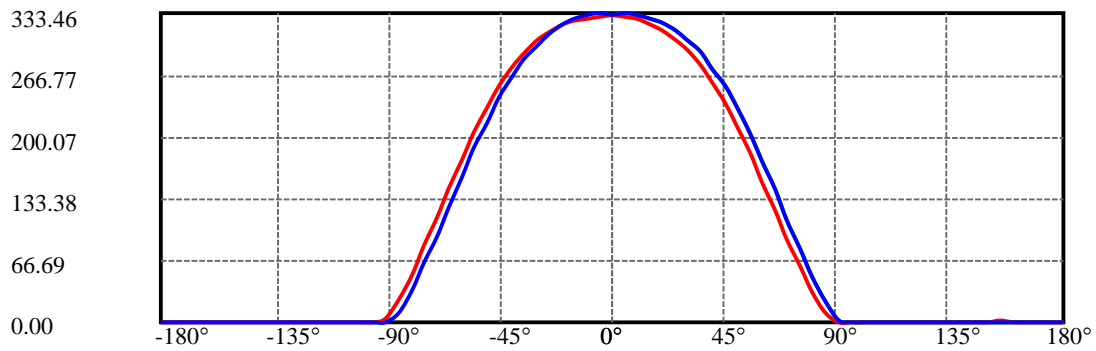
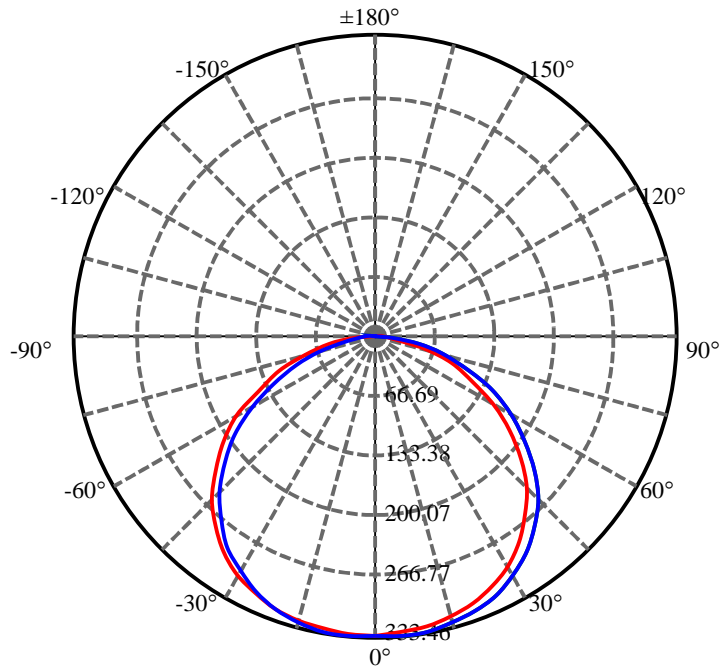
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	330.859	0.000	0	0.00%	0.00%
5.0	330.352	7.905	7.905	0.76%	0.76%
10.0	328.394	23.565	31.47	2.27%	3.03%
15.0	324.453	38.726	70.196	3.73%	6.76%
20.0	318.737	53.008	123.204	5.11%	11.87%
25.0	310.594	66.005	189.21	6.36%	18.23%
30.0	299.606	77.221	266.431	7.44%	25.67%
35.0	285.381	86.143	352.574	8.30%	33.97%
40.0	267.476	92.240	444.814	8.89%	42.86%
45.0	246.048	95.083	539.897	9.16%	52.02%
50.0	221.305	94.435	634.333	9.10%	61.12%
55.0	193.612	90.217	724.549	8.69%	69.81%
60.0	164.119	82.689	807.238	7.97%	77.77%
65.0	133.007	72.232	879.47	6.96%	84.73%
70.0	101.556	59.393	938.863	5.72%	90.46%
75.0	70.758	45.040	983.903	4.34%	94.80%
80.0	42.204	30.225	1014.128	2.91%	97.71%
85.0	16.887	16.056	1030.185	1.55%	99.25%
90.0	1.384	5.003	1035.187	0.48%	99.74%
95.0	0.157	0.422	1035.609	0.04%	99.78%
100.0	0.209	0.099	1035.708	0.01%	99.79%
105.0	0.235	0.119	1035.827	0.01%	99.80%
110.0	0.261	0.130	1035.957	0.01%	99.81%
115.0	0.287	0.139	1036.096	0.01%	99.82%
120.0	0.366	0.159	1036.254	0.02%	99.84%
125.0	0.366	0.169	1036.423	0.02%	99.86%
130.0	0.522	0.193	1036.616	0.02%	99.87%
135.0	0.470	0.200	1036.817	0.02%	99.89%
140.0	0.496	0.179	1036.995	0.02%	99.91%
145.0	0.600	0.183	1037.178	0.02%	99.93%
150.0	0.678	0.188	1037.367	0.02%	99.95%
155.0	0.705	0.175	1037.542	0.02%	99.96%
160.0	0.626	0.140	1037.681	0.01%	99.98%
165.0	0.600	0.101	1037.782	0.01%	99.99%
170.0	0.705	0.077	1037.86	0.01%	99.99%
175.0	0.678	0.049	1037.909	0.00%	100.00%
180.0	0.696	0.016	1037.926	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	266.43	25.67%	25.67%
0-40	444.81	42.86%	42.86%
0-60	807.24	77.77%	77.77%
0-90	1035.19	99.74%	99.74%
0-120	1036.25	99.84%	99.84%
0-180	1037.93	100.00%	100.00%
60-90	227.95	21.96%	21.96%
90-120	1.07	0.10%	0.10%
90-130	1.43	0.14%	0.14%
90-150	2.18	0.21%	0.21%
90-180	2.72	0.26%	0.26%
0-61.60	830.34	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	31.47
10-20	91.73
20-30	143.23
30-40	178.38
40-50	189.52
50-60	172.91
60-70	131.62
70-80	75.27
80-90	21.06
90-100	0.52
100-110	0.25
110-120	0.30
120-130	0.36
130-140	0.38
140-150	0.37
150-160	0.31
160-170	0.18
170-180	0.05



C90(Max): ———

C0/C180: ———

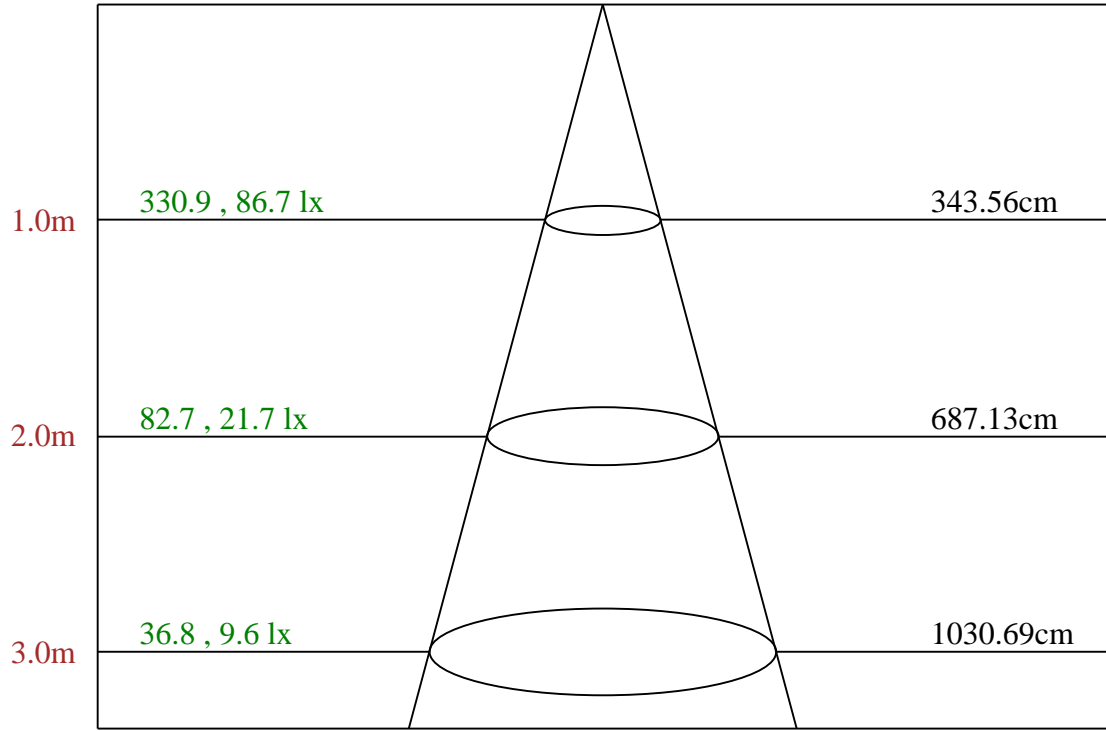
C90/C270: ———

Field angle(10% I_{max}):C0/180Left:83.5 Right:79.9

:C90/270Left:80.3 Right:82.9

Beam Angle(50% I_{max}):C0/180Left:61.6 Right:57.7

:C90/270Left:58.6 Right:61.3



Max , Ave Beam angle of C90 plane 119.59

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	330.86	328.86	326.57	321.97	314.87	305.48	294.20	278.54	258.92
45.0	330.86	327.82	324.69	319.47	313.00	303.81	291.28	276.46	257.04
90.0	330.86	333.46	331.16	328.24	322.60	315.71	305.27	291.49	273.74
135.0	330.86	330.33	329.28	326.15	321.35	314.25	304.43	291.28	275.62
180.0	330.86	329.91	328.24	325.52	320.51	313.41	303.81	290.86	274.58
225.0	330.86	328.66	327.19	324.06	319.26	312.16	302.14	288.77	272.70
270.0	330.86	333.25	331.37	326.57	320.51	311.33	299.01	283.97	265.18
315.0	330.86	330.53	328.66	323.64	317.80	308.61	296.71	281.68	262.05
360.0	330.86	328.86	326.57	321.97	314.87	305.48	294.20	278.54	258.92

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	236.57	210.47	181.45	151.38	120.69	89.79	59.93	32.57	9.40
45.0	234.49	207.97	179.99	151.17	120.06	89.37	59.93	33.41	9.40
90.0	253.90	230.94	202.75	173.72	142.40	110.04	77.88	49.07	21.92
135.0	255.16	231.56	204.84	175.39	144.28	112.96	80.60	51.37	23.39
180.0	254.32	231.14	204.42	175.39	144.07	114.01	82.27	52.20	25.06
225.0	252.44	229.47	202.96	174.98	144.70	113.38	81.43	51.78	25.68
270.0	242.00	215.90	188.13	157.02	125.28	92.71	63.69	34.66	10.86
315.0	239.50	212.98	184.37	153.89	122.57	90.20	60.34	32.57	9.40
360.0	236.57	210.47	181.45	151.38	120.69	89.79	59.93	32.57	9.40

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.42	0.42	0.42	0.42	0.63	0.42	0.63	0.63	0.84
45.0	0.42	0.42	0.63	0.42	0.63	0.63	0.63	0.63	0.63
90.0	1.25	0.00	0.00	0.00	0.21	0.00	0.21	0.21	0.21
135.0	2.51	0.00	0.00	0.00	0.21	0.21	0.42	0.21	0.42
180.0	3.13	0.00	0.00	0.21	0.00	0.21	0.00	0.21	0.42
225.0	2.71	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.42
270.0	0.21	0.00	0.21	0.21	0.00	0.21	0.42	0.42	0.63
315.0	0.42	0.42	0.42	0.63	0.42	0.63	0.42	0.42	0.63
360.0	0.42	0.42	0.42	0.42	0.63	0.42	0.63	0.63	0.84

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.63	0.63	0.63	0.63	1.04	0.63	0.63	0.84	0.84
45.0	0.63	1.04	0.63	0.84	0.84	0.84	0.63	0.84	0.63
90.0	0.21	0.42	0.63	0.63	0.63	0.84	0.63	0.42	0.63
135.0	0.42	0.21	0.42	0.42	0.42	0.42	0.63	0.84	0.63
180.0	0.42	0.21	0.63	0.63	0.63	0.63	0.42	0.84	0.63
225.0	0.21	0.42	0.63	0.84	0.42	0.63	0.63	0.84	0.84
270.0	0.63	0.42	0.42	0.63	0.63	0.42	0.42	0.42	0.42
315.0	0.63	0.63	0.84	0.84	1.04	0.63	0.84	0.63	0.84
360.0	0.63	0.63	0.63	0.63	1.04	0.63	0.63	0.84	0.84

C/γ(°)	180.0
0.0	0.70
45.0	0.70
90.0	0.70
135.0	0.70
180.0	0.70
225.0	0.70
270.0	0.70
315.0	0.70
360.0	0.70