
Client:

LumCAT: 1364-E

Luminaire:

Report No: nata-0100

Test No:

LampCAT: XICATO LES 9

Lamp flux(lm): 1446.0

Number of Lamps: 1

Length(mm): 47

Phm Type: C

Voltage(V):

Current(A):

Power (W): 26.1900

PF:

Ballast type:

Width(mm): 47

Height(mm): 0

Photometric Results

Lumens(lm): 1230.55, Efficiency(%): 85.10% , Luminous Efficacy(lm/W): 46.98

Central intensity(cd): 7143.188, Maximum intensity(cd): 7225.435

Angle of maximum intensity: C=45.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=14.5

[C90/270]Total=14.1

Field angle(10%Imax): [C0/180]Total=31.7

[C90/270]Total=29.7

Maximum s/h(1/2): C0_180=0.31 C90_270=0.23

Maximum s/h(1/4): C0_180=0.32 C90_270=0.22

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): - -

CIE Type : Direct lighting

Output flux ratio in π solid angle : - -

Zonal flux distribution table

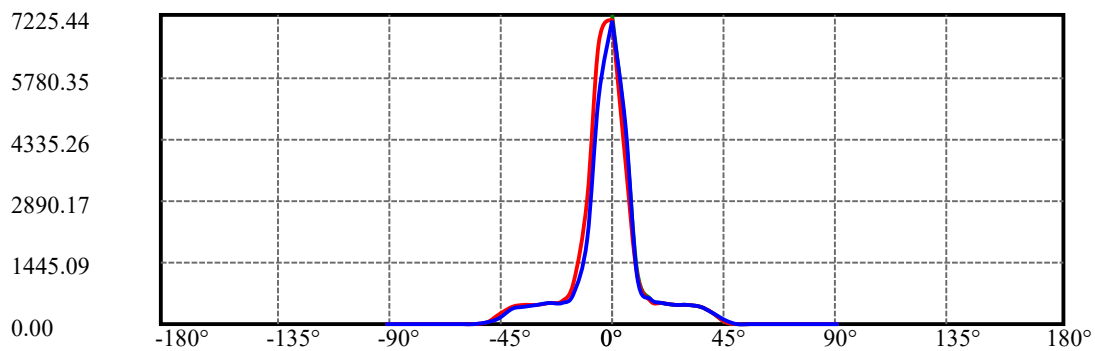
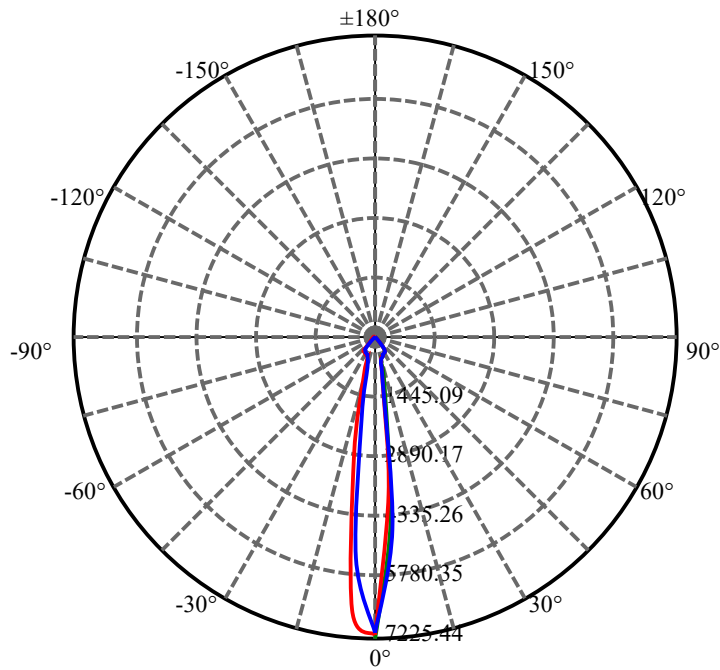
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7096.050	42.436	42.436	2.935%	3.449%
5.0	5112.538	244.243	286.679	16.891%	23.297%
10.0	1874.464	178.417	465.096	12.339%	37.797%
15.0	728.761	103.388	568.484	7.150%	46.199%
20.0	507.743	95.189	663.673	6.583%	53.935%
25.0	472.180	109.382	773.055	7.564%	62.824%
30.0	445.519	122.103	895.157	8.444%	72.747%
35.0	416.558	130.965	1026.123	9.057%	83.390%
40.0	330.576	116.474	1142.596	8.055%	92.855%
45.0	134.708	52.212	1194.808	3.611%	97.098%
50.0	21.849	9.174	1203.982	.634%	97.844%
55.0	8.512	3.822	1207.804	.264%	98.154%
60.0	6.868	3.260	1211.064	.225%	98.419%
65.0	6.770	3.363	1214.427	.233%	98.693%
70.0	6.728	3.465	1217.893	.240%	98.974%
75.0	6.693	3.544	1221.436	.245%	99.262%
80.0	6.686	3.609	1225.046	.250%	99.556%
85.0	6.672	3.643	1228.689	.252%	99.852%
90.0	6.658	1.825	1230.514	.126%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	895.16	61.91%	72.75%
0-40	1142.60	79.02%	92.86%
0-60	1211.06	83.75%	98.42%
0-90	1228.69	84.97%	99.85%
0-120	1228.69	84.97%	99.85%
0-180	1230.51	85.10%	100.00%
60-90	20.89	1.44%	1.70%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-33.41	984.41	68.08%	80.00%

ZONAL LUMEN SUMMARY

0-10	465.10
10-20	198.58
20-30	231.48
30-40	247.44
40-50	61.39
50-60	7.08
60-70	6.83
70-80	7.15
80-90	3.64
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



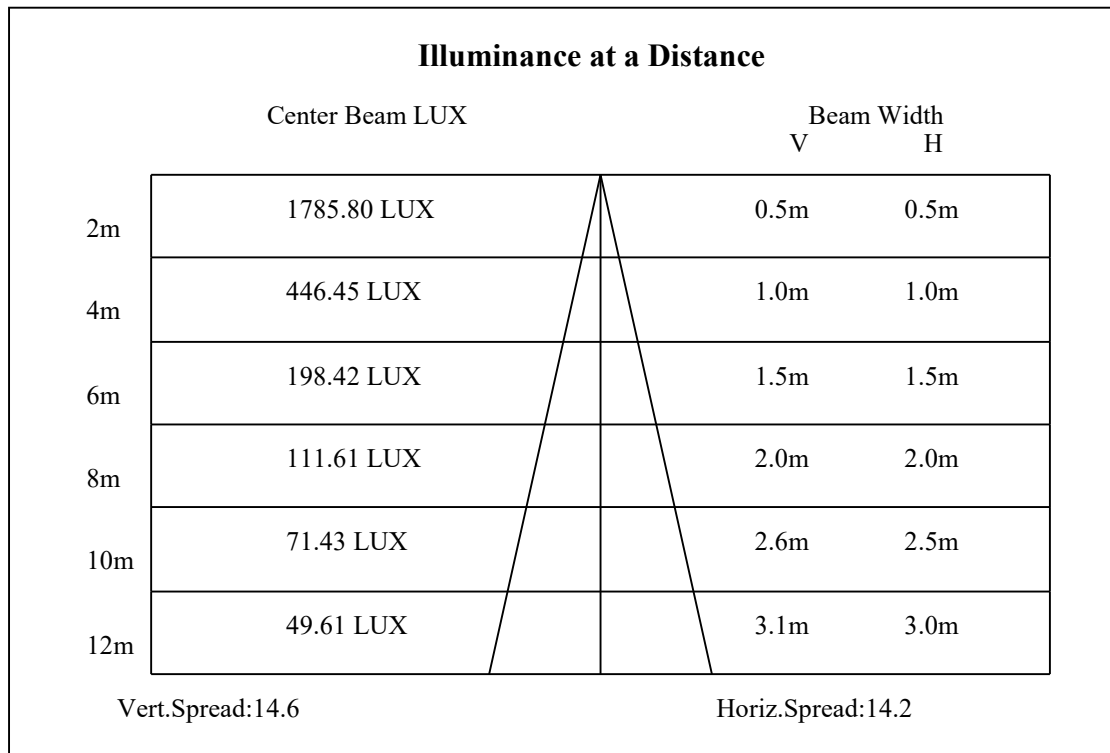
C45(Max): ———

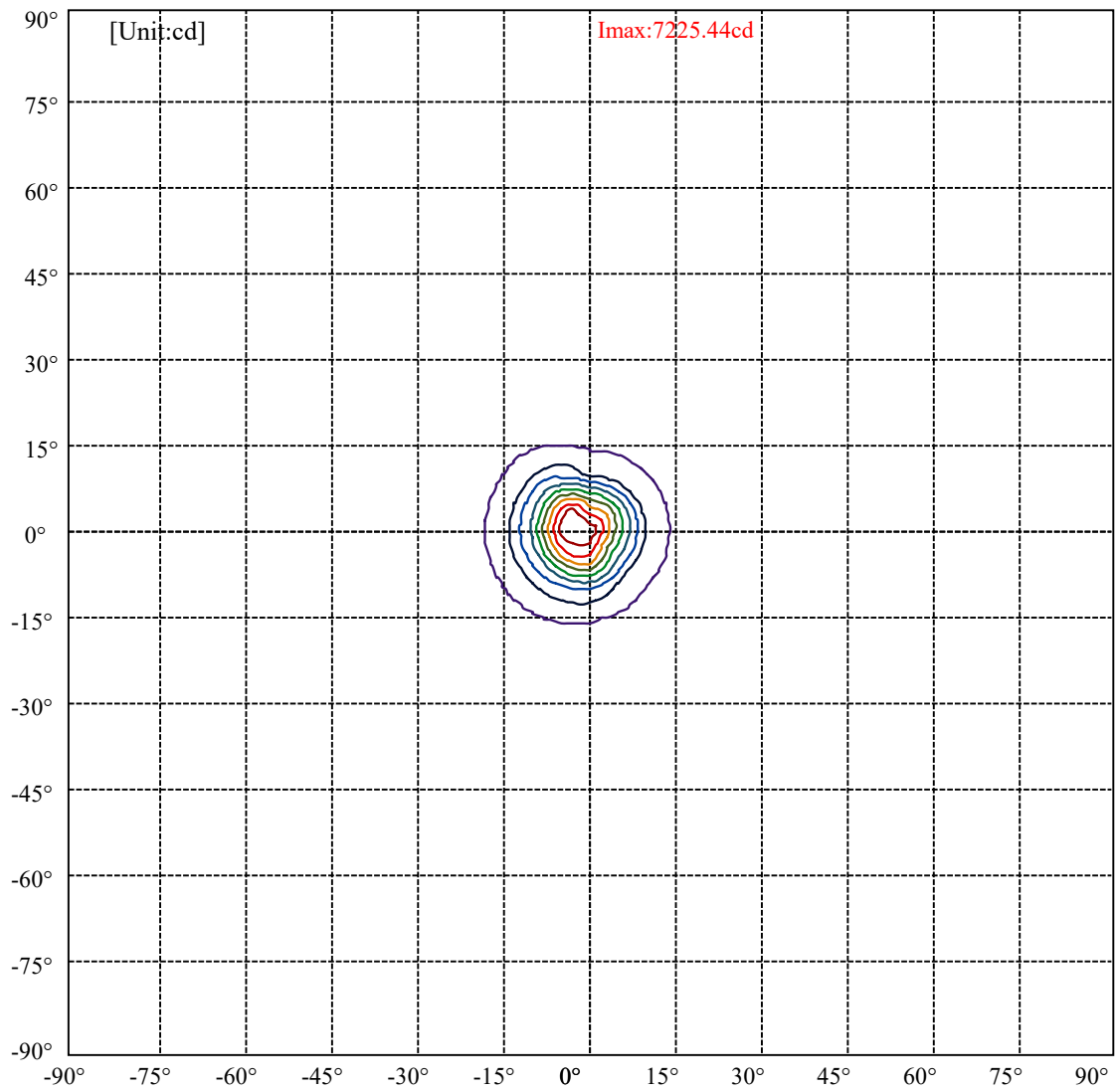
C0/C180: ———

C90/C270: ———

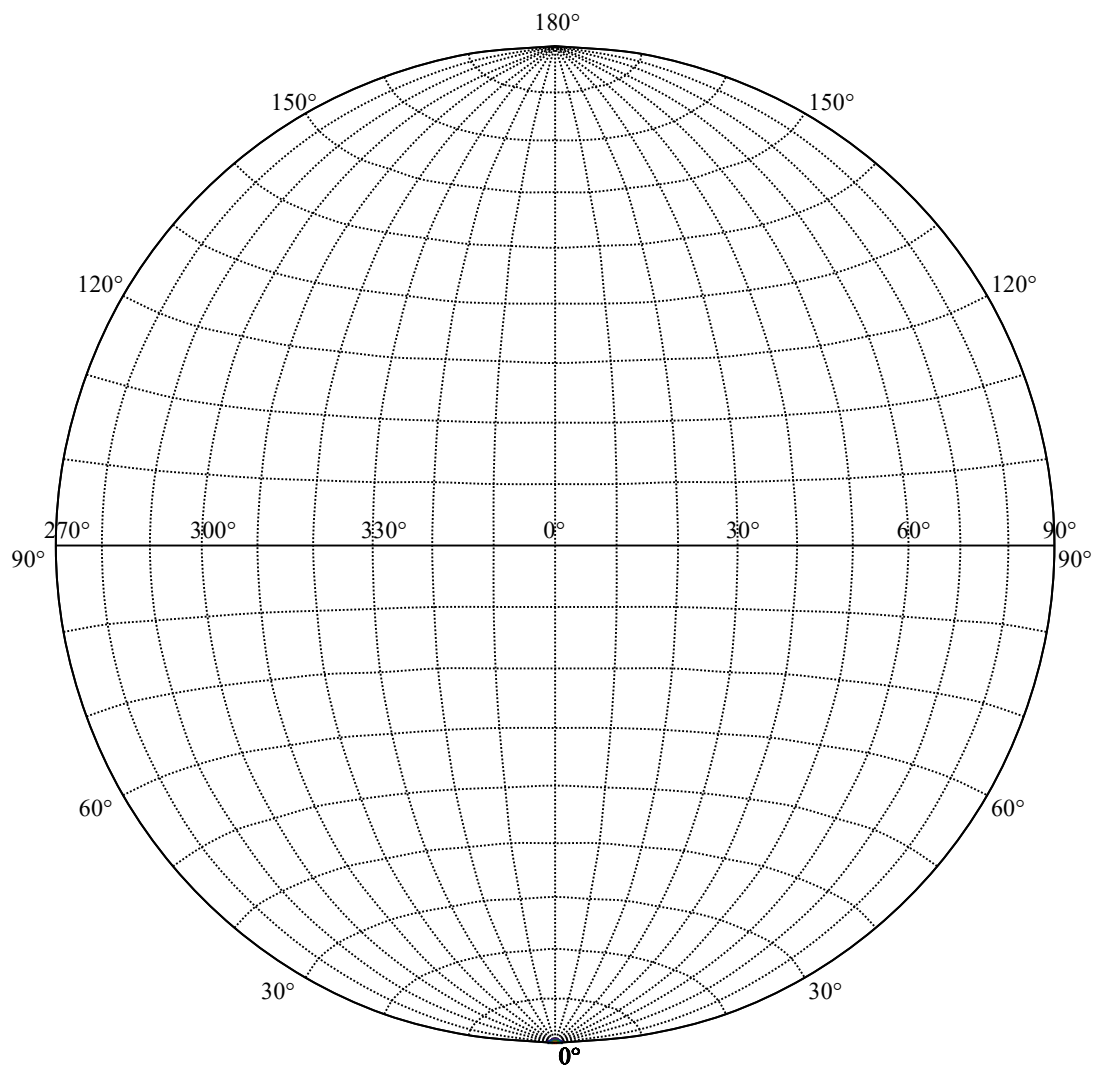
Field angle(10%Imax):C0/180Left:18.1 Right:13.6
:C90/270Left:15.7 Right:14.0

Beam Angle(50%Imax):C0/180Left:9.1 Right:5.4
:C90/270Left:7.6 Right:6.5





(10%Imax) 708.78	—
(20%Imax) 1417.56	—
(30%Imax) 2126.34	—
(40%Imax) 2835.12	—
(50%Imax) 3543.9	—
(60%Imax) 4252.68	—
(70%Imax) 4961.46	—
(80%Imax) 5670.24	—
(90%Imax) 6379.02	—



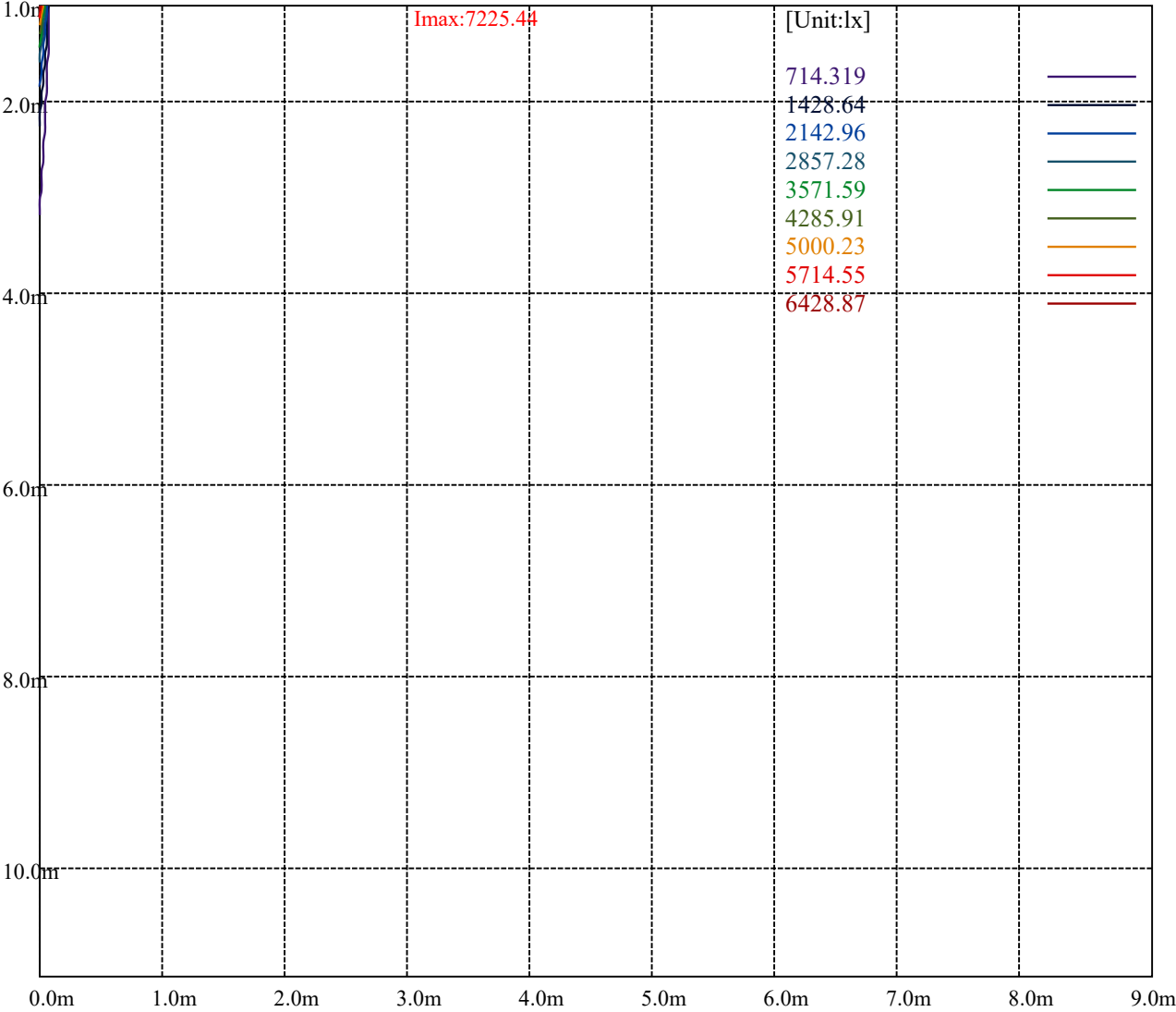
House

[Unit:cd]

Road

Imax:7225.44

- (10%Imax) 722.544
- (20%Imax) 1445.09
- (30%Imax) 2167.63
- (40%Imax) 2890.17
- (50%Imax) 3612.72
- (60%Imax) 4335.26
- (70%Imax) 5057.8
- (80%Imax) 5780.35
- (90%Imax) 6502.89



Luminance Limiting Curve(no luminous side)

Luminance Table

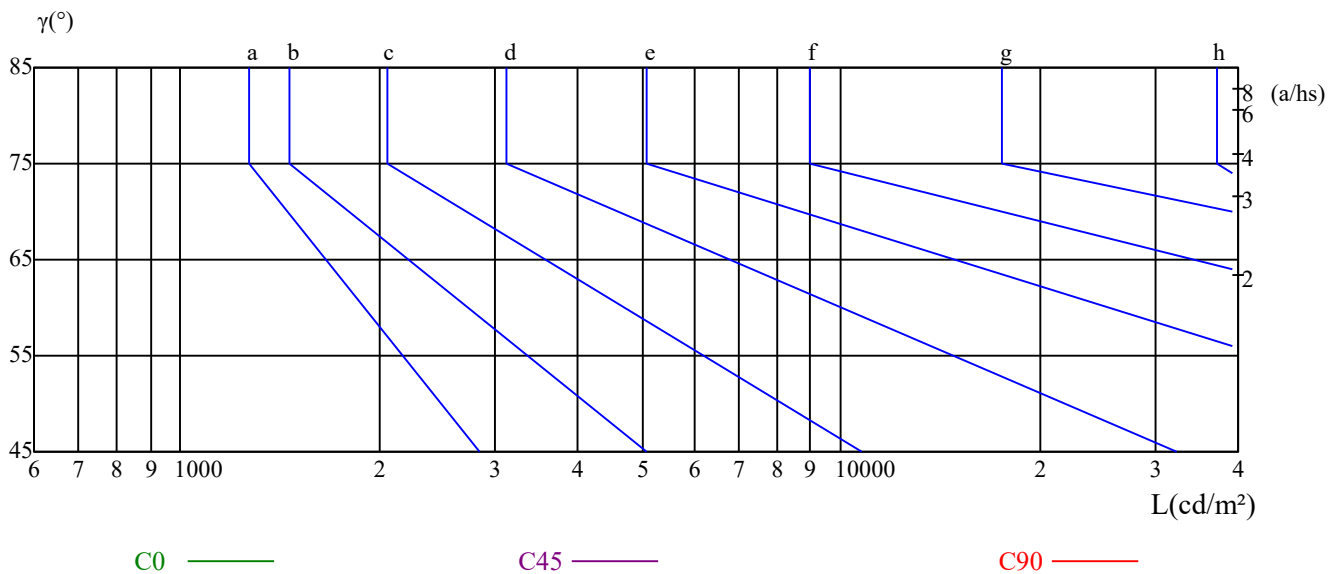
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

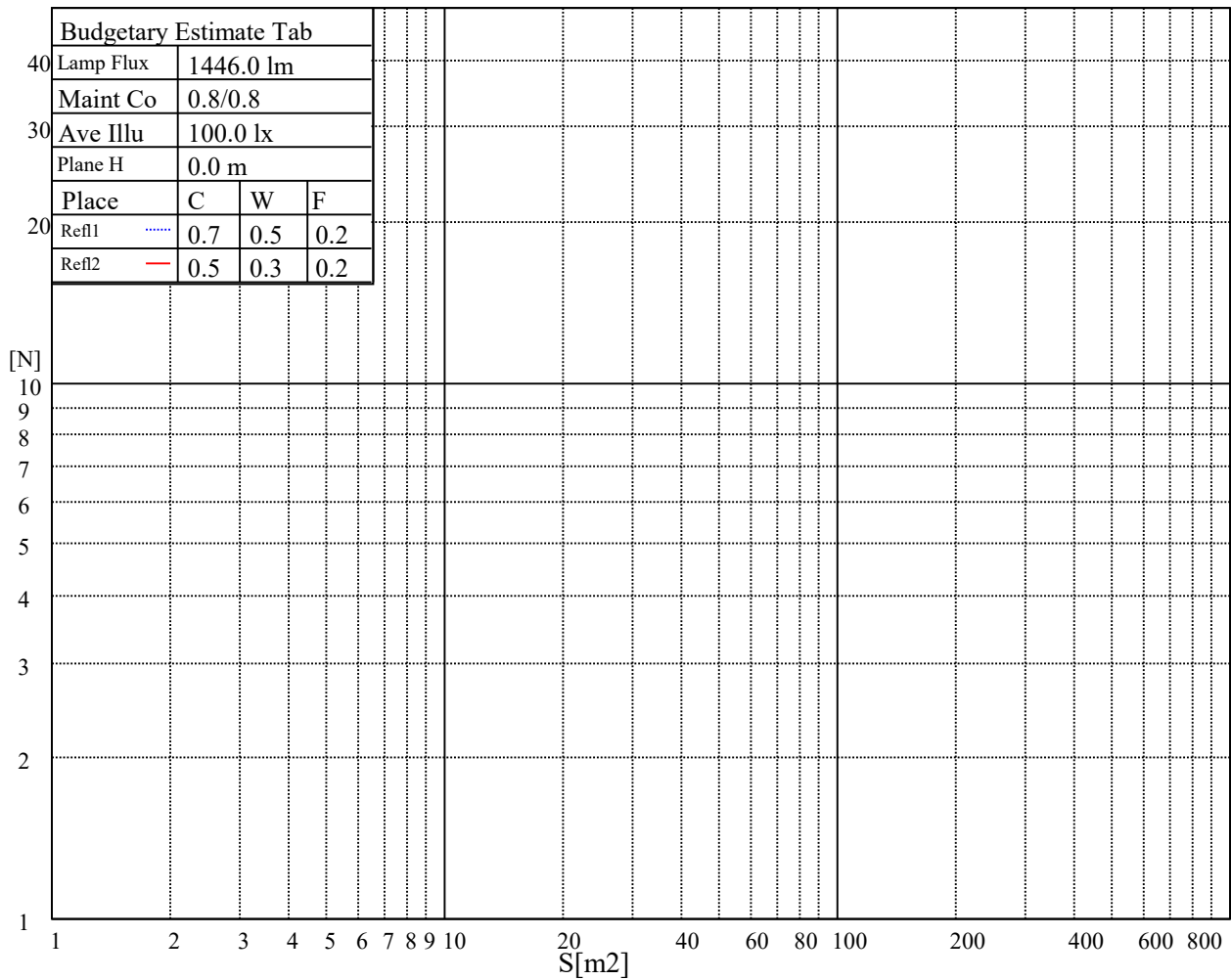
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7222	7252	7267	11645	11743	11719	34437	34728	34728

Glare Table

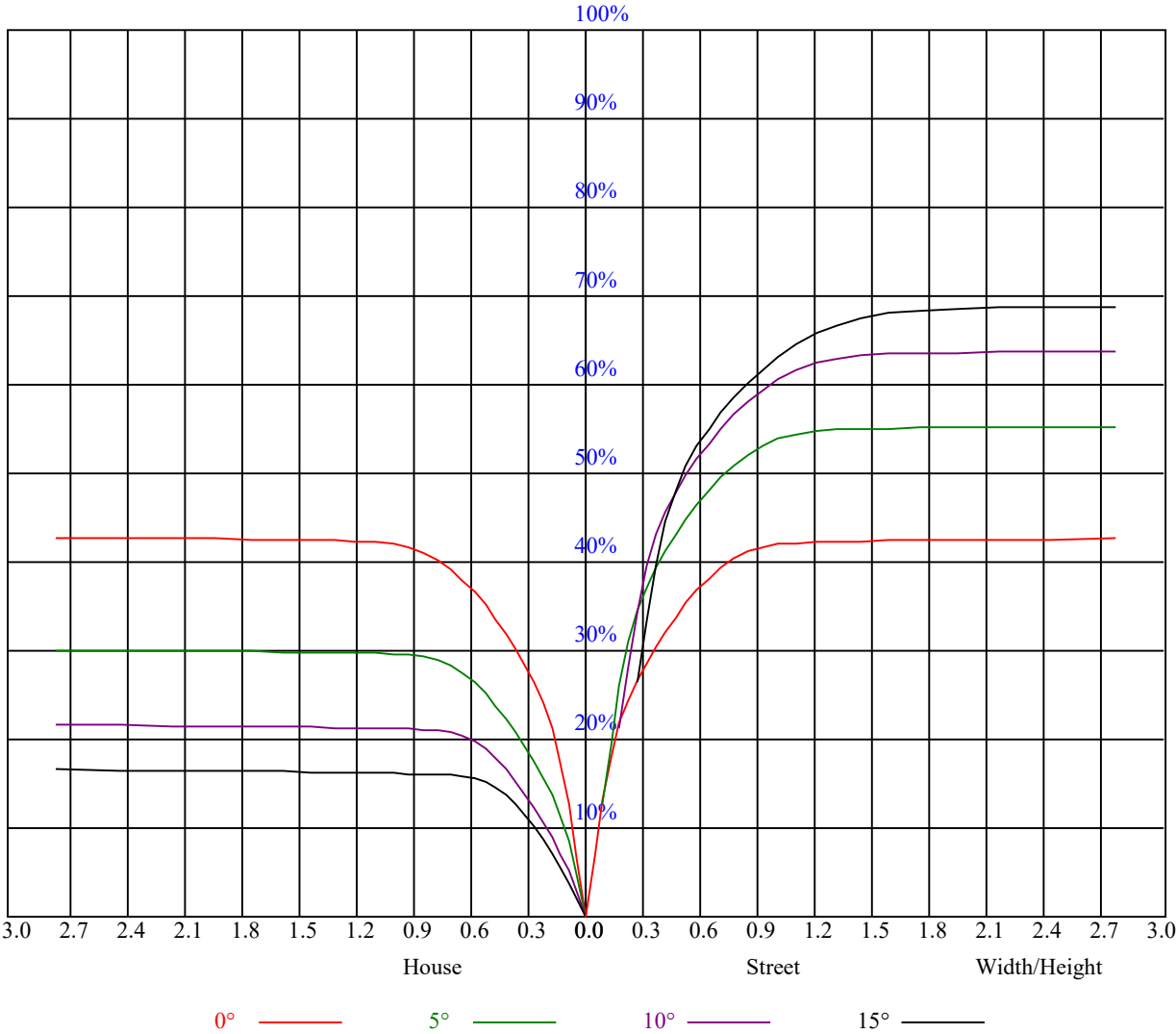
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

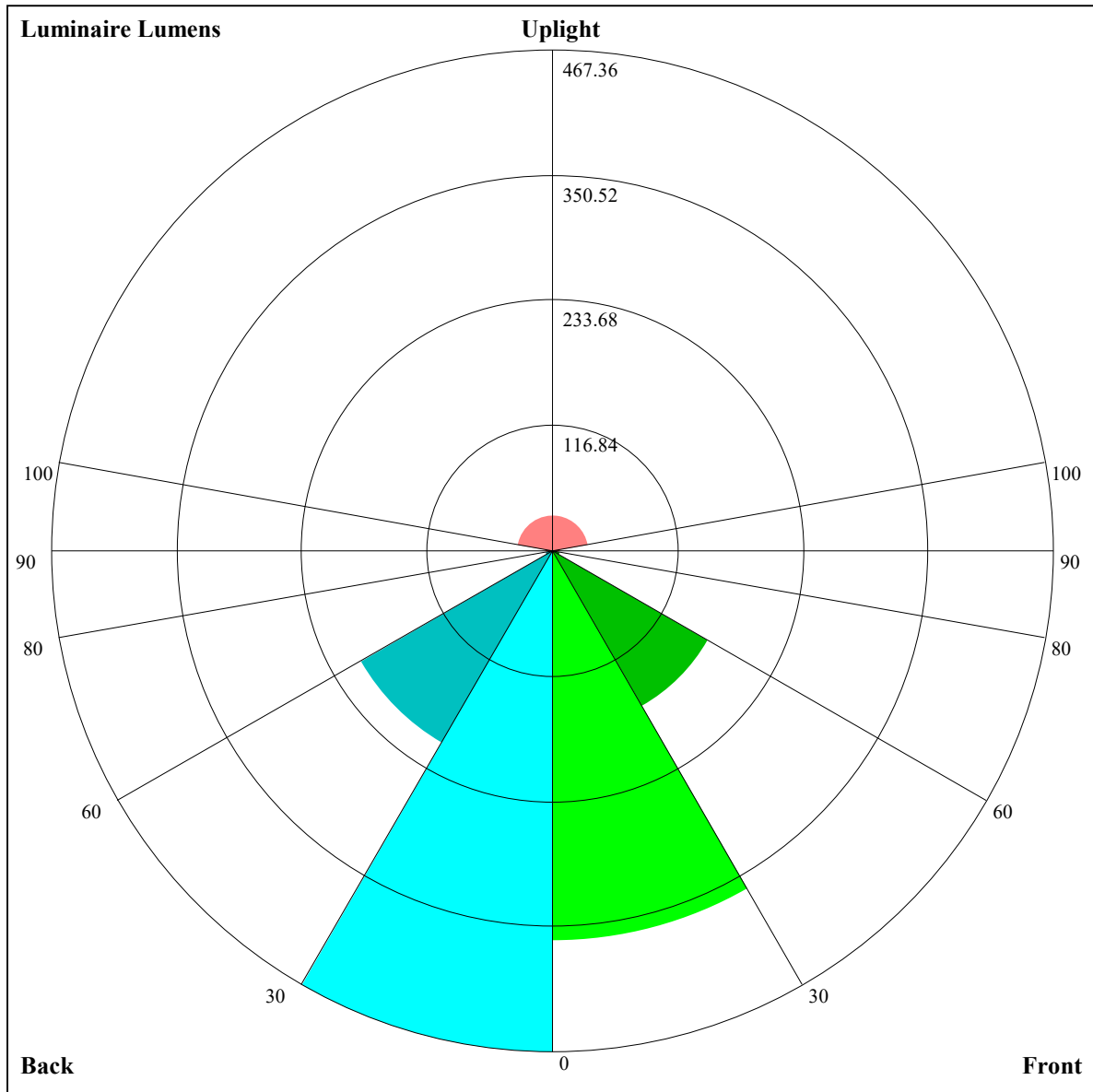
Luminance Limiting Curve





RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00





Luminaire Lumens:

FL=364.63,FM=168.19,FH=6.91,FVH=3.64
BL=467.36,BM=207.59,BH=6.92,BVH=3.64
UL=7.26,UH=34.57

BUG Rating:B1-U2-G0

Intensity data(cd)

Appendix Page: 15 Total:15

C/γ(°)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19
45.0	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44
90.0	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80
135.0	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78
180.0	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19
225.0	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44
270.0	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80
315.0	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78
360.0	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19

C/γ(°)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19
45.0	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44
90.0	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80
135.0	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78
180.0	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19
225.0	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44	7225.44
270.0	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80	7087.80
315.0	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78	6927.78
360.0	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19	7143.19

C/γ(°)	0.0
0.0	7143.19
45.0	7225.44
90.0	7087.80
135.0	6927.78
180.0	7143.19
225.0	7225.44
270.0	7087.80
315.0	6927.78
360.0	7143.19