
Client:

LumCAT: 1393-M

Luminaire:

Report No: nata-0100

Test No:

LampCAT: XICATO LES 9

Lamp flux(lm): 1435.0

Number of Lamps: 1

Length(mm): 45

Phm Type: C

Voltage(V):

Current(A):

Power (W): 30.7600

PF:

Ballast type:

Width(mm): 45

Height(mm): 0

Photometric Results

Lumens(lm): 1255.31, Efficiency(%): 87.48% , Luminous Efficacy(lm/W): 40.81

Central intensity(cd): 2906.623, Maximum intensity(cd): 2906.623

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=40.4

[C90/270]Total=40.4

Field angle(10%Imax): [C0/180]Total=59.2

[C90/270]Total=59.2

Maximum s/h(1/2): C0_180=0.67 C90_270=0.67

Maximum s/h(1/4): C0_180=0.63 C90_270=0.63

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 88.61%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.631%

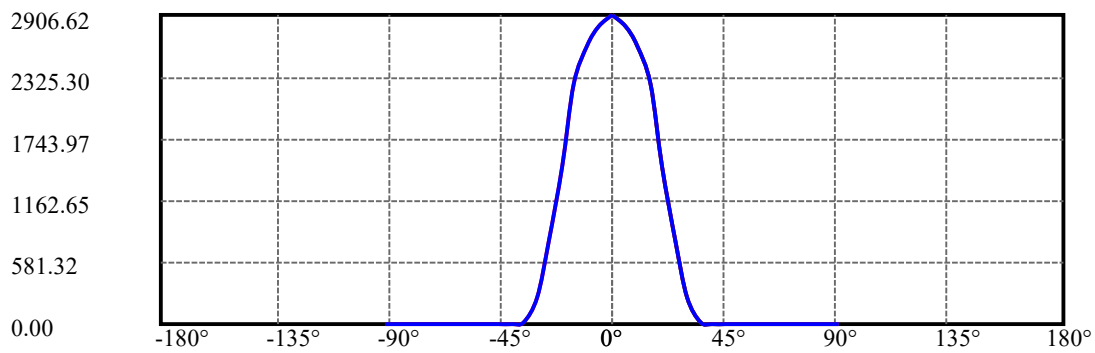
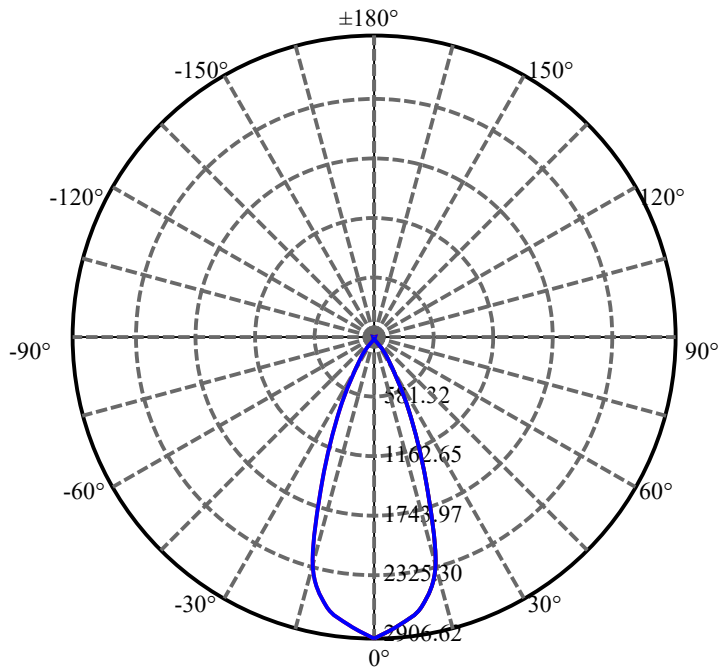
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2906.623	17.382	17.382	1.211%	1.385%
5.0	2795.338	133.543	150.925	9.306%	12.023%
10.0	2625.249	249.879	400.804	17.413%	31.929%
15.0	2259.893	320.607	721.411	22.342%	57.469%
20.0	1474.685	276.465	997.877	19.266%	79.493%
25.0	785.096	181.870	1179.746	12.674%	93.981%
30.0	245.287	67.225	1246.972	4.685%	99.336%
35.0	12.589	3.958	1250.93	.276%	99.651%
40.0	2.965	1.045	1251.974	.073%	99.734%
45.0	1.958	0.759	1252.733	.053%	99.795%
50.0	1.343	0.564	1253.297	.039%	99.840%
55.0	1.007	0.452	1253.749	.032%	99.876%
60.0	0.727	0.345	1254.094	.024%	99.903%
65.0	0.615	0.306	1254.4	.021%	99.928%
70.0	0.504	0.260	1254.66	.018%	99.948%
75.0	0.392	0.208	1254.867	.014%	99.965%
80.0	0.336	0.181	1255.049	.013%	99.979%
85.0	0.336	0.183	1255.232	.013%	99.994%
90.0	0.280	0.077	1255.309	.005%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1246.97	86.90%	99.34%
0-40	1251.97	87.25%	99.73%
0-60	1254.09	87.39%	99.90%
0-90	1255.23	87.47%	99.99%
0-120	1255.23	87.47%	99.99%
0-180	1255.31	87.48%	100.00%
60-90	1.48	0.10%	0.12%
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%
0-20.18	1004.25	69.98%	80.00%

ZONAL LUMEN SUMMARY

0-10	400.80
10-20	597.07
20-30	249.10
30-40	5.00
40-50	1.32
50-60	0.80
60-70	0.57
70-80	0.39
80-90	0.18
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



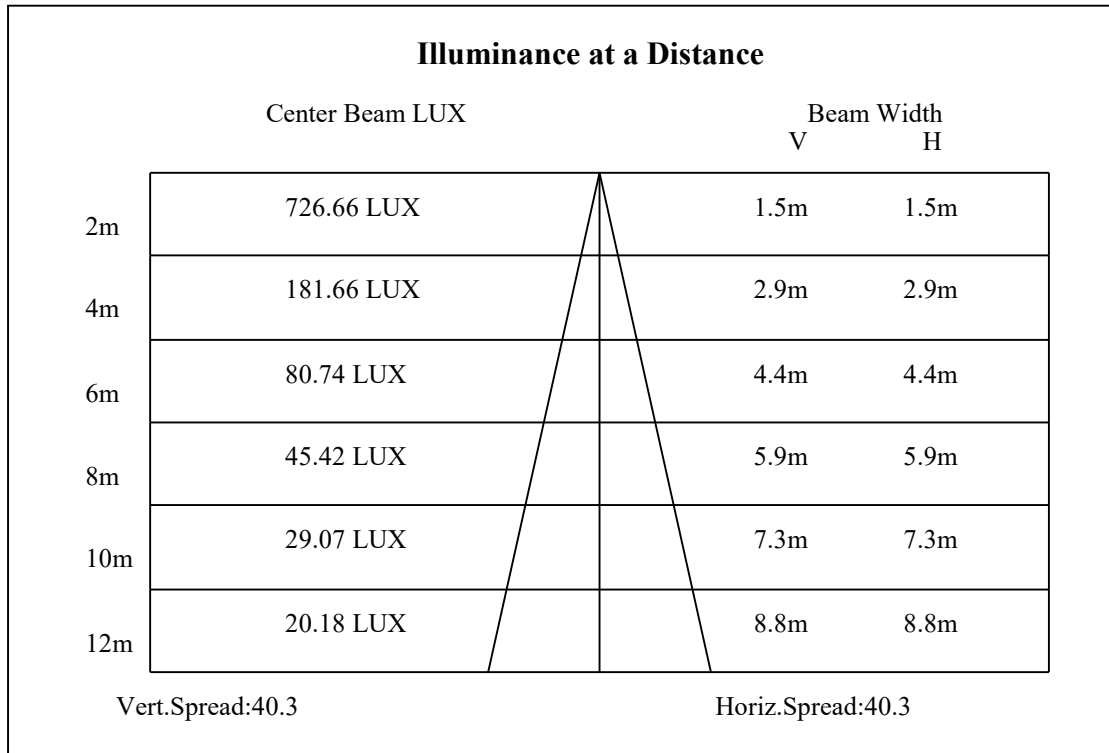
C0(Max): —————

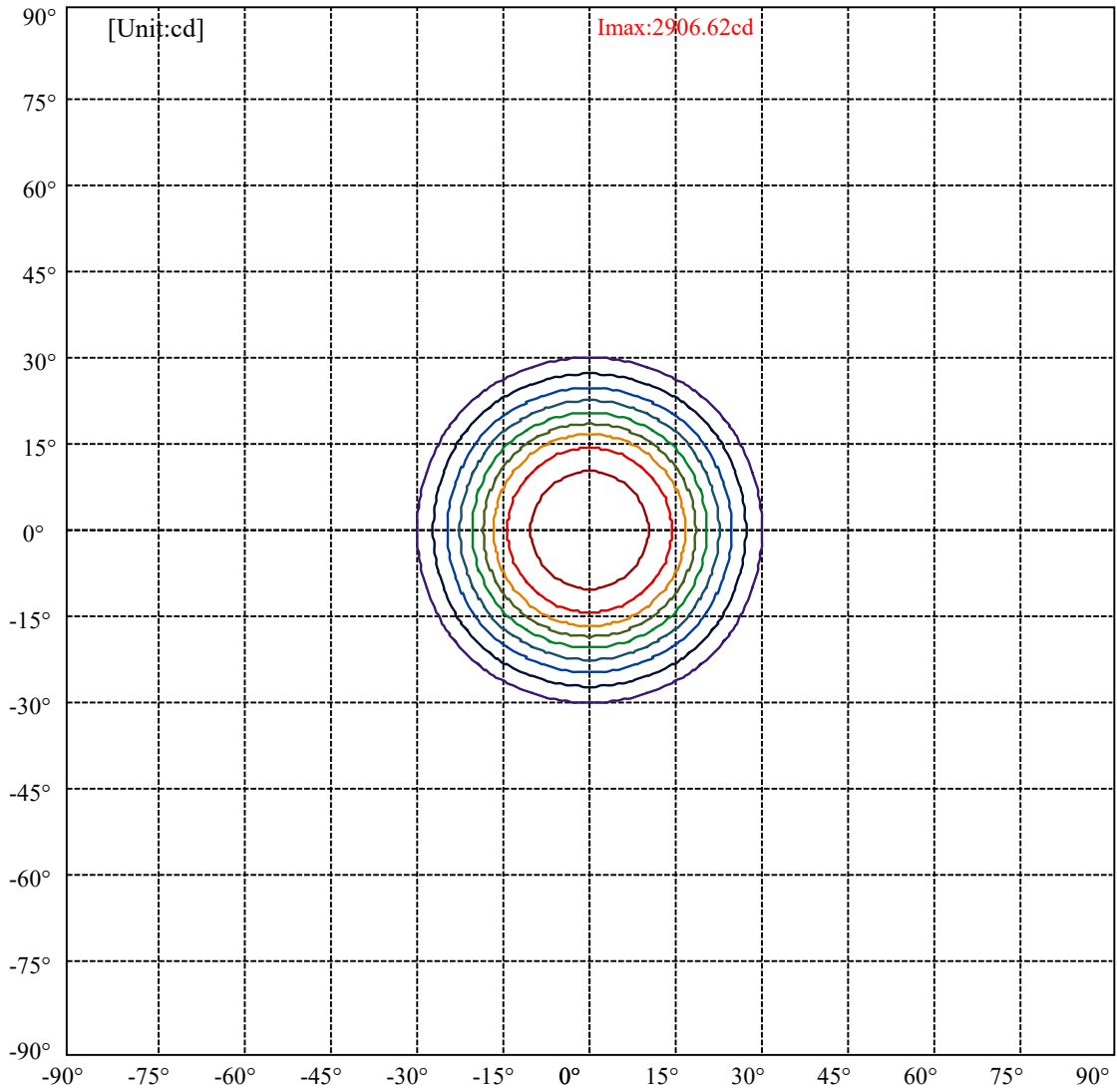
C0/C180: —————

C90/C270: —————

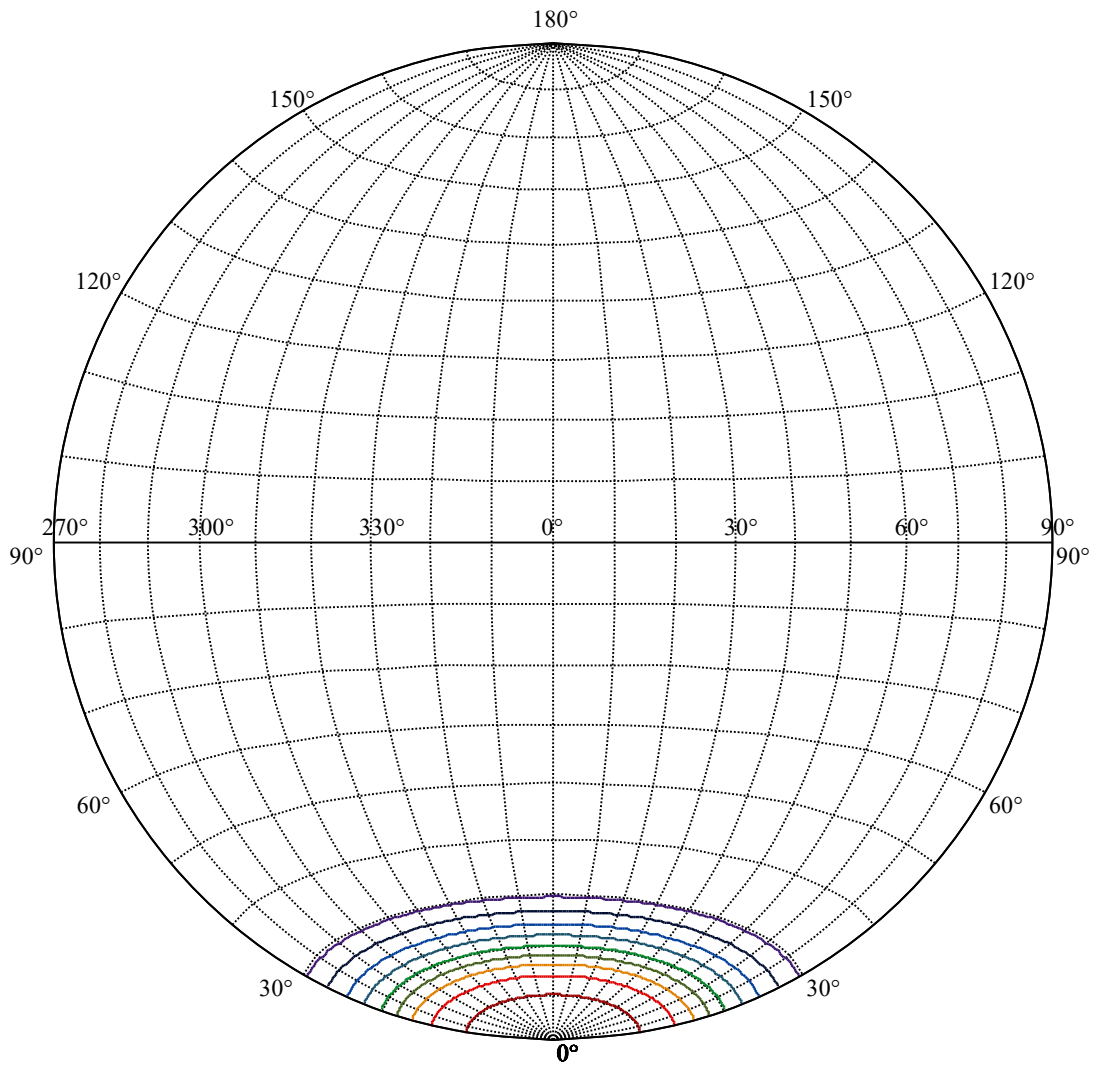
Field angle(10%Imax):C0/180Left:29.6 Right:29.6
:C90/270Left:29.6 Right:29.6

Beam Angle(50%Imax):C0/180Left:20.2 Right:20.2
:C90/270Left:20.2 Right:20.2





(10%Imax) 290.662	—
(20%Imax) 581.325	—
(30%Imax) 871.987	—
(40%Imax) 1162.65	—
(50%Imax) 1453.31	—
(60%Imax) 1743.97	—
(70%Imax) 2034.64	—
(80%Imax) 2325.3	—
(90%Imax) 2615.96	—



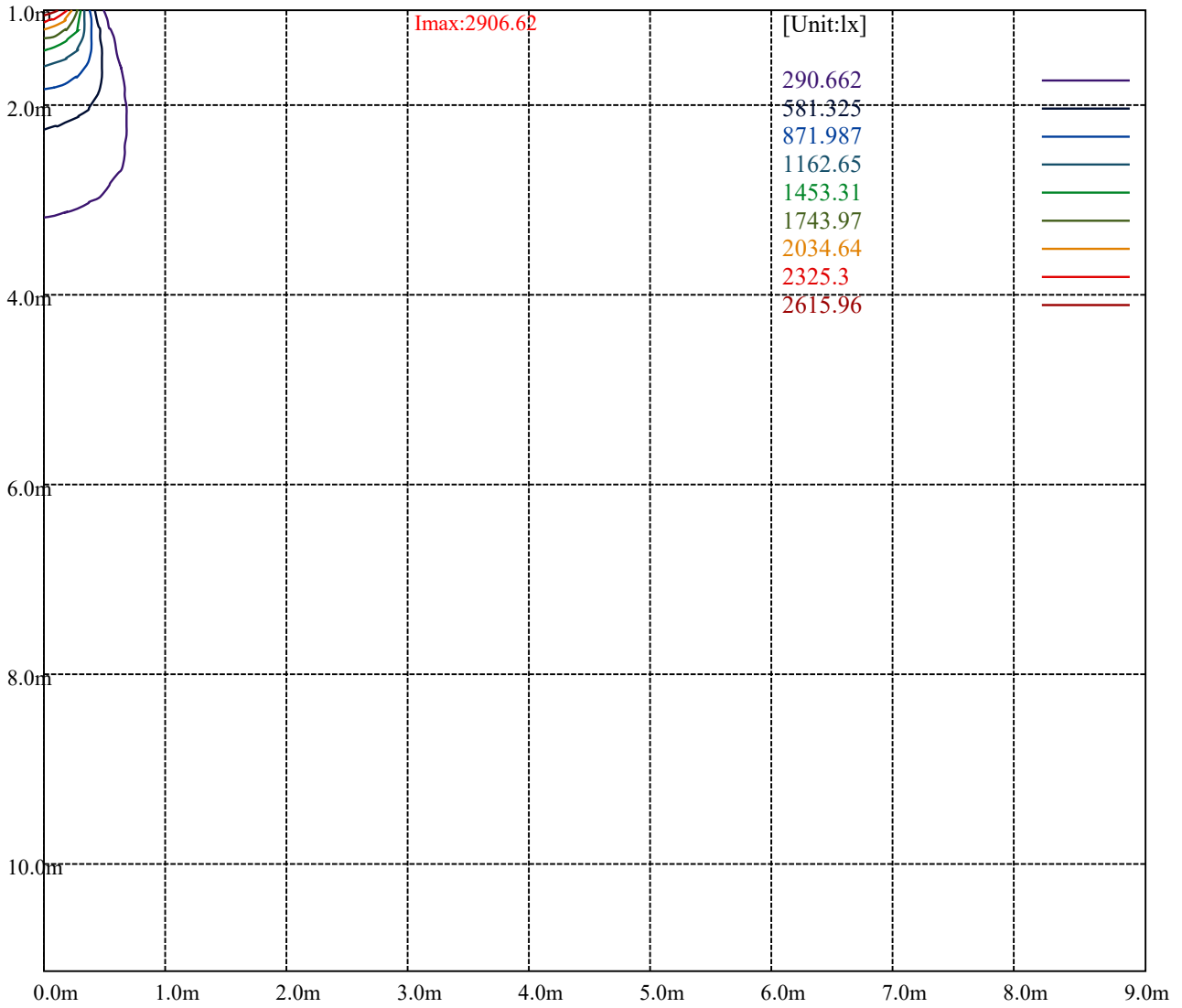
House

[Unit:cd]

Road

I_{max}:2906.62

(10%I _{max}) 290.662	—
(20%I _{max}) 581.325	—
(30%I _{max}) 871.987	—
(40%I _{max}) 1162.65	—
(50%I _{max}) 1453.31	—
(60%I _{max}) 1743.97	—
(70%I _{max}) 2034.64	—
(80%I _{max}) 2325.3	—
(90%I _{max}) 2615.96	—



Luminance Table

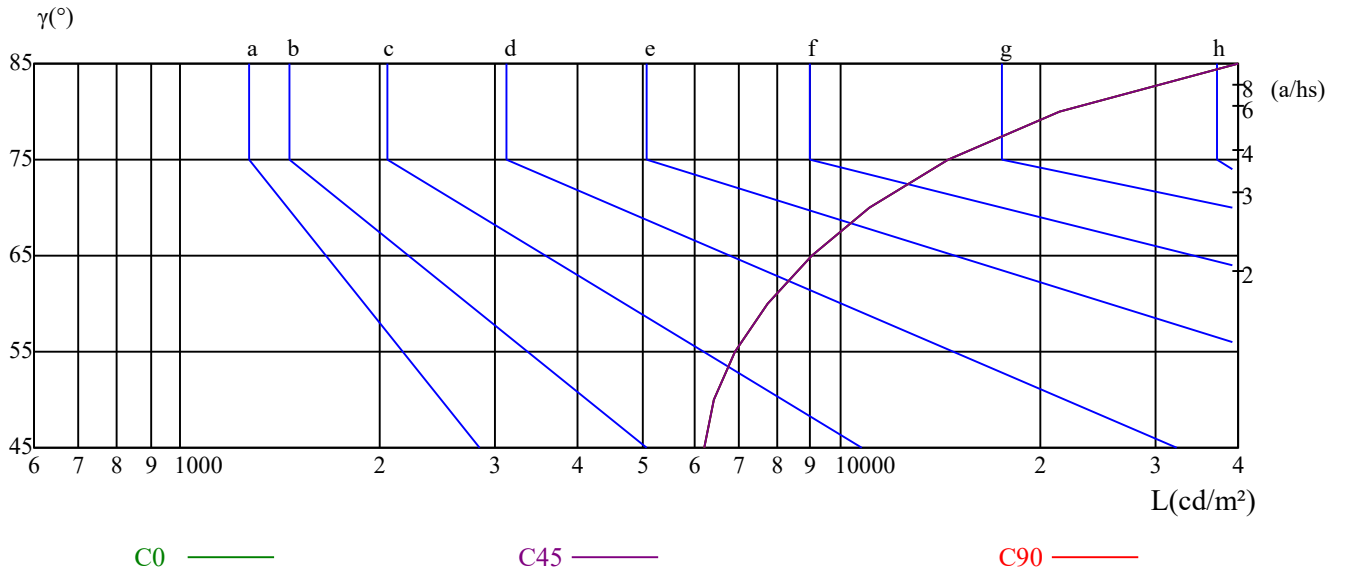
γ	45	50	55	60	65	70	75	80	85
C0	6218	6426	6931	7764	9038	11037	14518	21519	42835
C45	6218	6426	6931	7764	9038	11037	14518	21519	42835
C90	6218	6426	6931	7764	9038	11037	14518	21519	42835

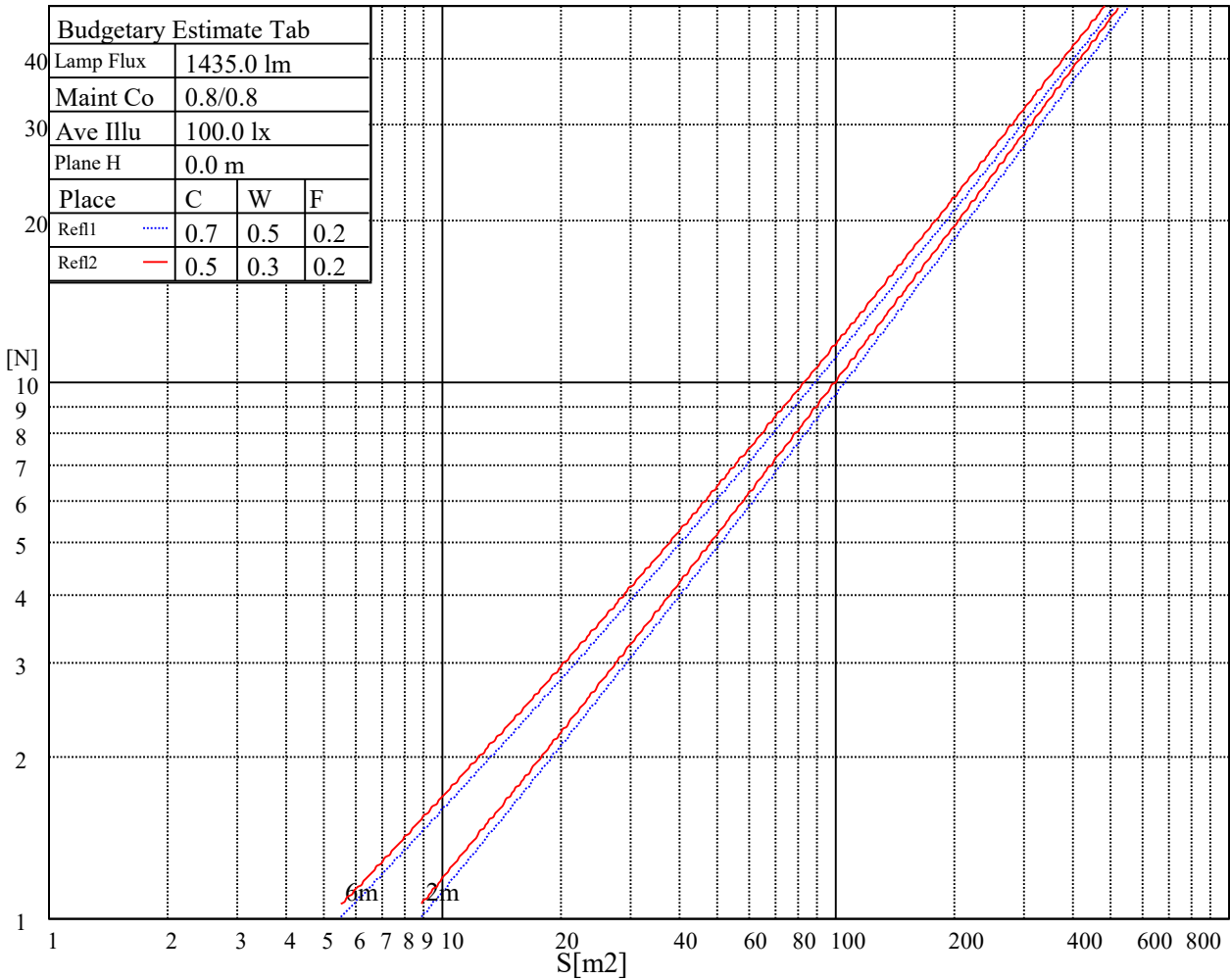
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9038	9038	9038	14518	14518	14518	42835	42835	42835

Glare Table

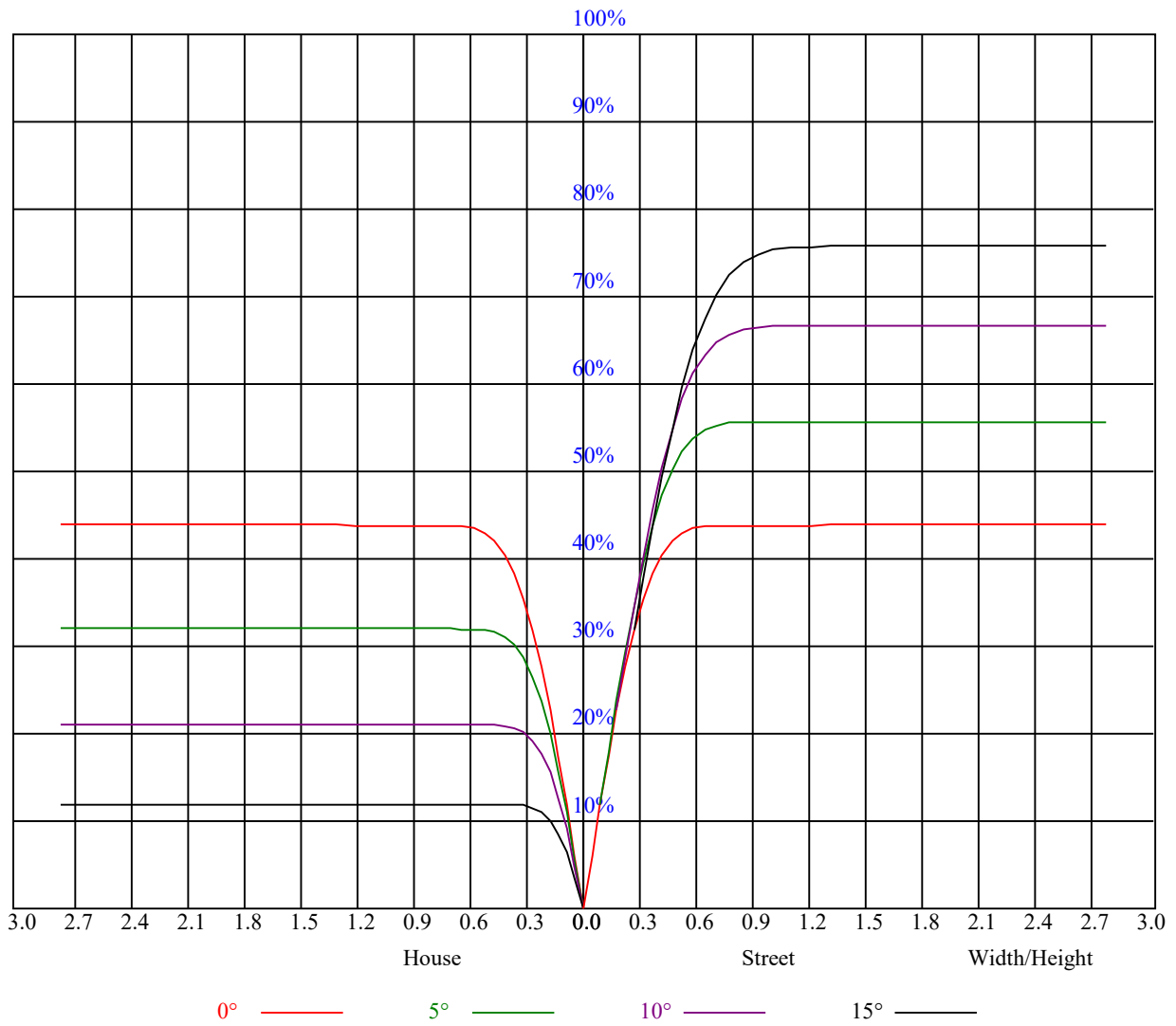
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

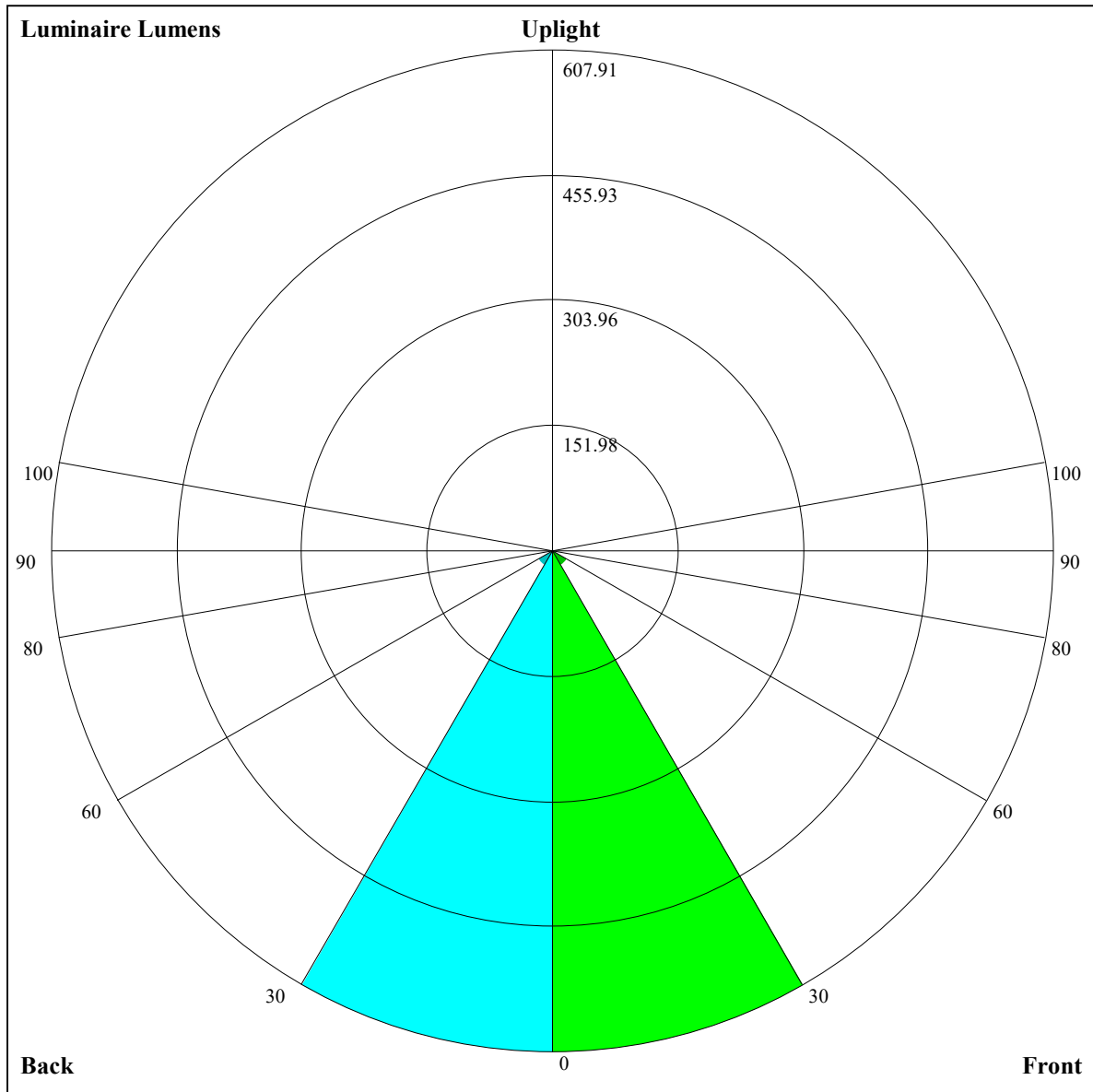
Luminance Limiting Curve





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	1.05	1.05	1.05	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.89
1	0.98	0.96	0.94	0.97	0.95	0.93	0.93	0.91	0.90	0.90	0.89	0.87	0.87	0.86	0.85	0.83
2	0.94	0.91	0.88	0.92	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.84	0.85	0.83	0.82	0.81
3	0.90	0.86	0.83	0.89	0.85	0.83	0.86	0.84	0.82	0.84	0.82	0.80	0.82	0.81	0.79	0.78
4	0.86	0.82	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.83	0.79	0.76	0.82	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.75	0.78	0.76	0.74	0.73
6	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.76	0.74	0.72	0.71
7	0.77	0.73	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.70	0.69
8	0.75	0.71	0.68	0.74	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.67
9	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.70	0.67	0.66	0.65
10	0.70	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.68	0.66	0.64	0.63





Luminaire Lumens:

FL=607.91,FM=21.07,FH=0.52,FVH=0.18

BL=607.91,BM=21.07,BH=0.52,BVH=0.18

UL=0.31,UH=1.45

BUG Rating:B2-U1-G0

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	2906.62	2795.34	2625.25	2259.89	1474.69	785.10	245.29	12.59	2.97
30.0	2906.62	2795.34	2625.25	2259.89	1474.69	785.10	245.29	12.59	2.97
60.0	2906.62	2795.34	2625.25	2259.89	1474.69	785.10	245.29	12.59	2.97
90.0	2906.62	2795.34	2625.25	2259.89	1474.69	785.10	245.29	12.59	2.97
120.0	2906.62	2795.34	2625.25	2259.89	1474.69	785.10	245.29	12.59	2.97
150.0	2906.62	2795.34	2625.25	2259.89	1474.69	785.10	245.29	12.59	2.97
180.0	2906.62	2795.34	2625.25	2259.89	1474.69	785.10	245.29	12.59	2.97
210.0	2906.62	2795.34	2625.25	2259.89	1474.69	785.10	245.29	12.59	2.97
240.0	2906.62	2795.34	2625.25	2259.89	1474.69	785.10	245.29	12.59	2.97
270.0	2906.62	2795.34	2625.25	2259.89	1474.69	785.10	245.29	12.59	2.97
300.0	2906.62	2795.34	2625.25	2259.89	1474.69	785.10	245.29	12.59	2.97
330.0	2906.62	2795.34	2625.25	2259.89	1474.69	785.10	245.29	12.59	2.97
360.0	2906.62	2795.34	2625.25	2259.89	1474.69	785.10	245.29	12.59	2.97
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1.96	1.34	1.01	0.73	0.62	0.50	0.39	0.34	0.34
30.0	1.96	1.34	1.01	0.73	0.62	0.50	0.39	0.34	0.34
60.0	1.96	1.34	1.01	0.73	0.62	0.50	0.39	0.34	0.34
90.0	1.96	1.34	1.01	0.73	0.62	0.50	0.39	0.34	0.34
120.0	1.96	1.34	1.01	0.73	0.62	0.50	0.39	0.34	0.34
150.0	1.96	1.34	1.01	0.73	0.62	0.50	0.39	0.34	0.34
180.0	1.96	1.34	1.01	0.73	0.62	0.50	0.39	0.34	0.34
210.0	1.96	1.34	1.01	0.73	0.62	0.50	0.39	0.34	0.34
240.0	1.96	1.34	1.01	0.73	0.62	0.50	0.39	0.34	0.34
270.0	1.96	1.34	1.01	0.73	0.62	0.50	0.39	0.34	0.34
300.0	1.96	1.34	1.01	0.73	0.62	0.50	0.39	0.34	0.34
330.0	1.96	1.34	1.01	0.73	0.62	0.50	0.39	0.34	0.34
360.0	1.96	1.34	1.01	0.73	0.62	0.50	0.39	0.34	0.34
C/ γ (°)	90.0								
0.0	0.28								
30.0	0.28								
60.0	0.28								
90.0	0.28								
120.0	0.28								
150.0	0.28								
180.0	0.28								
210.0	0.28								
240.0	0.28								
270.0	0.28								
300.0	0.28								
330.0	0.28								
360.0	0.28								