
Client:

LumCAT: CT01D03560AF

Luminaire:

Report No: nt0100

Voltage(V): 34.9900

Test No: GC2019122018

Current(A): 0.1970

LampCAT: LUMINUS CXM-6-AC40

Power (W): 6.8900

Lamp flux(lm): 861.0

PF: 1.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 689.05, Efficiency(%): 80.03% , Luminous Efficacy(lm/W): 100.01

Central intensity(cd): 551.461, Maximum intensity(cd): 551.461

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=58.4

[C90/270]Total=58.4

Field angle(10%Imax): [C0/180]Total=109.0

[C90/270]Total=109.0

Maximum s/h(1/2): C0_180=0.86 C90_270=0.86

Maximum s/h(1/4): C0_180=0.91 C90_270=0.91

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 80.03%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 86.180%

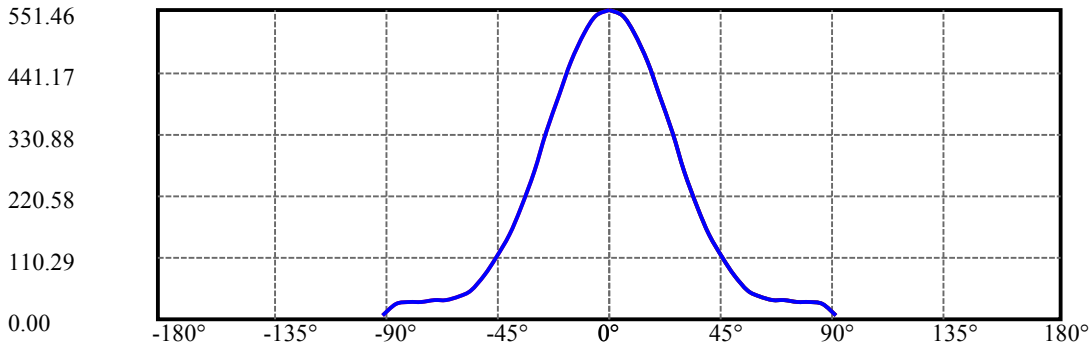
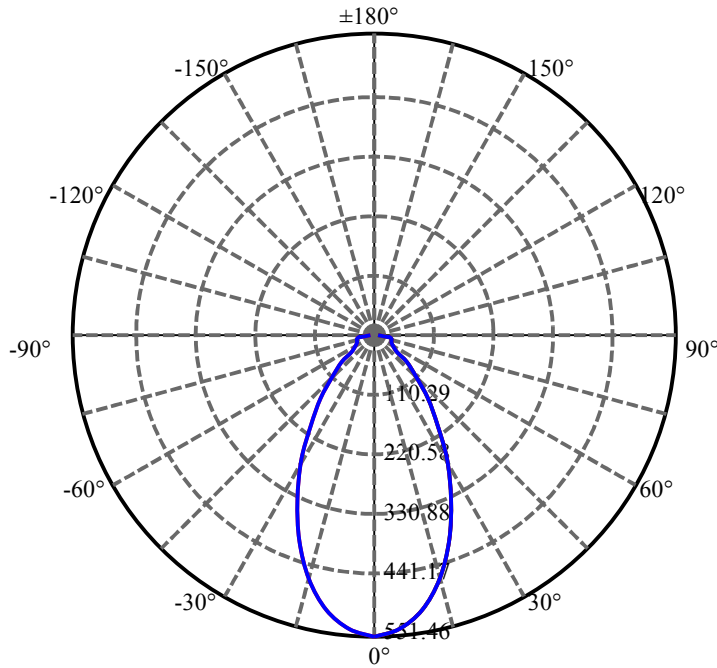
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	551.461	0.000	0	.000%	.000%
5.0	539.965	13.048	13.048	1.515%	1.894%
10.0	509.759	37.552	50.6	4.361%	7.343%
15.0	460.041	57.528	108.127	6.682%	15.692%
20.0	401.126	70.972	179.1	8.243%	25.992%
25.0	331.727	76.863	255.962	8.927%	37.147%
30.0	264.410	75.442	331.404	8.762%	48.096%
35.0	200.194	68.416	399.82	7.946%	58.025%
40.0	150.813	58.563	458.383	6.802%	66.524%
45.0	109.020	48.110	506.493	5.588%	73.506%
50.0	77.442	37.677	544.171	4.376%	78.974%
55.0	52.411	28.234	572.405	3.279%	83.072%
60.0	40.233	21.414	593.819	2.487%	86.180%
65.0	35.965	18.524	612.343	2.151%	88.868%
70.0	34.833	17.926	630.27	2.082%	91.470%
75.0	32.203	17.522	647.792	2.035%	94.013%
80.0	30.291	16.722	664.513	1.942%	96.439%
85.0	26.276	15.370	679.884	1.785%	98.670%
90.0	7.193	9.164	689.048	1.064%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	331.40	38.49%	48.10%
0-40	458.38	53.24%	66.52%
0-60	593.82	68.97%	86.18%
0-90	679.88	78.96%	98.67%
0-120	679.88	78.96%	98.67%
0-180	689.05	80.03%	100.00%
60-90	107.48	12.48%	15.60%
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%
0-51.25	551.24	64.02%	80.00%

ZONAL LUMEN SUMMARY

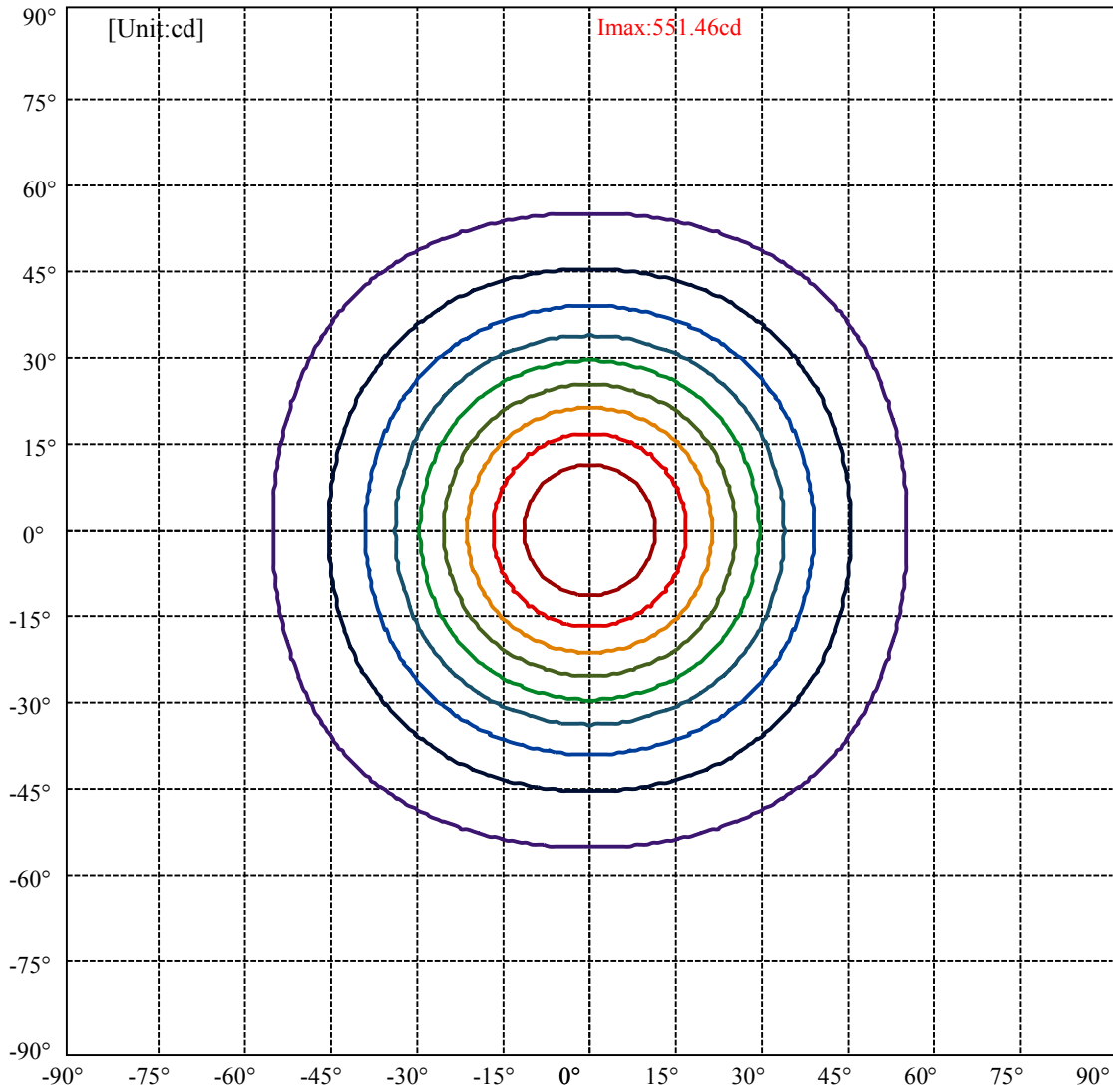
0-10	50.60
10-20	128.50
20-30	152.30
30-40	126.98
40-50	85.79
50-60	49.65
60-70	36.45
70-80	34.24
80-90	15.37
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



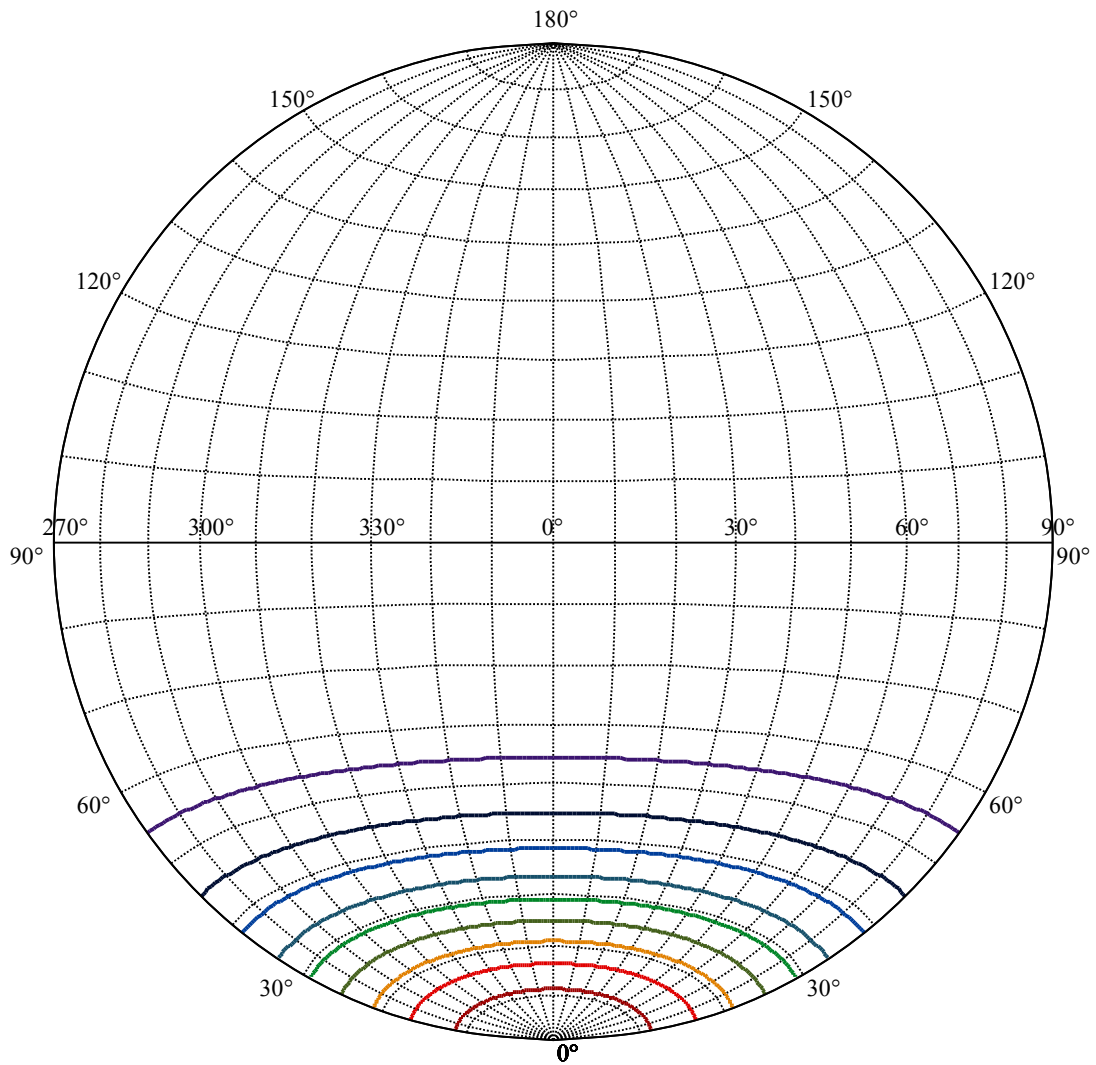
C0(Max): —————
 C0/C180: —————
 C90/C270: —————

Field angle(10%Imax):C0/180Left:54.5 Right:54.5
 :C90/270Left:54.5 Right:54.5

Beam Angle(50%Imax):C0/180Left:29.2 Right:29.2
 :C90/270Left:29.2 Right:29.2



(10%Imax) 55.1461	—
(20%Imax) 110.292	—
(30%Imax) 165.438	—
(40%Imax) 220.584	—
(50%Imax) 275.73	—
(60%Imax) 330.877	—
(70%Imax) 386.023	—
(80%Imax) 441.169	—
(90%Imax) 496.315	—












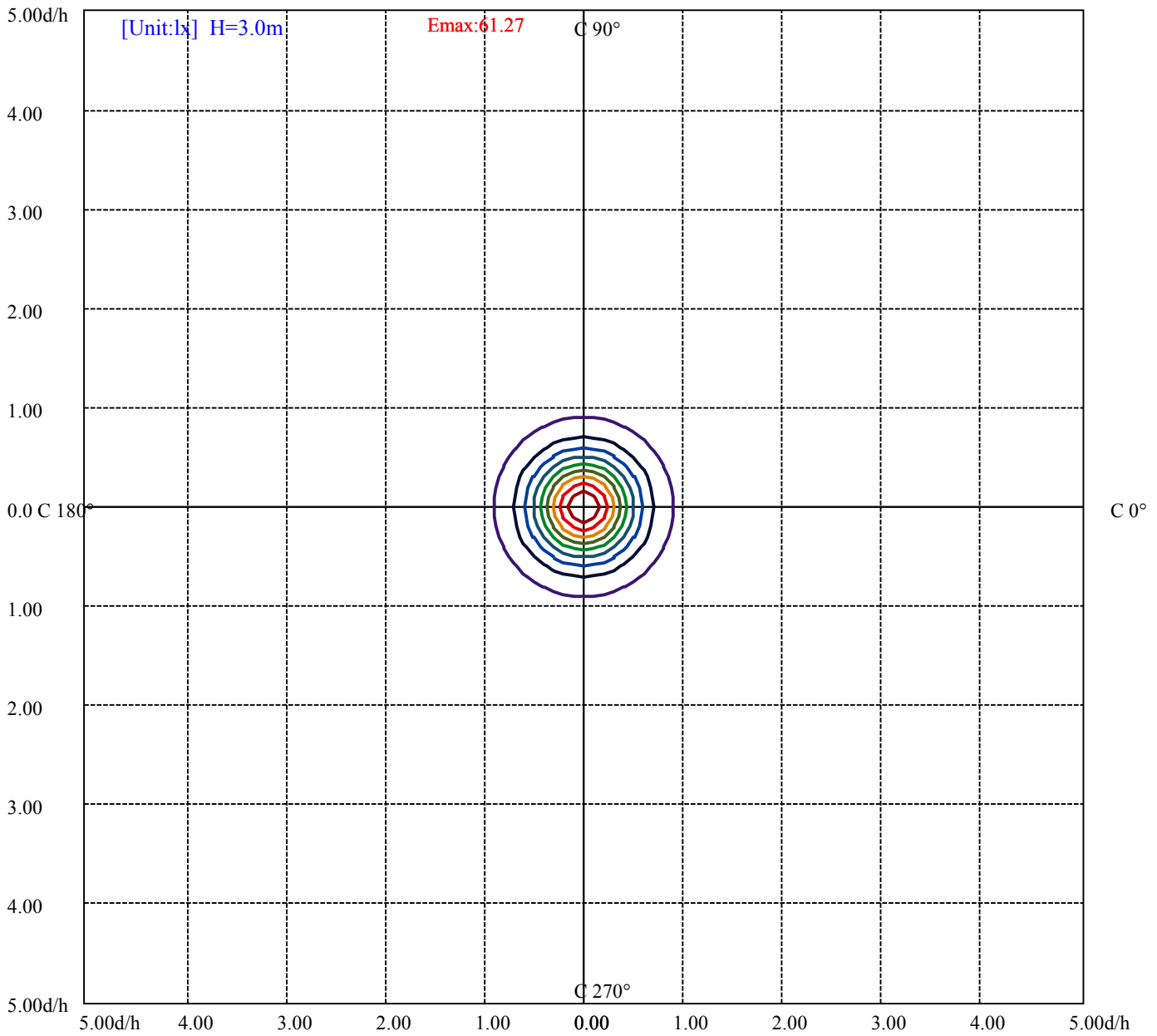
House

[Unit:cd]

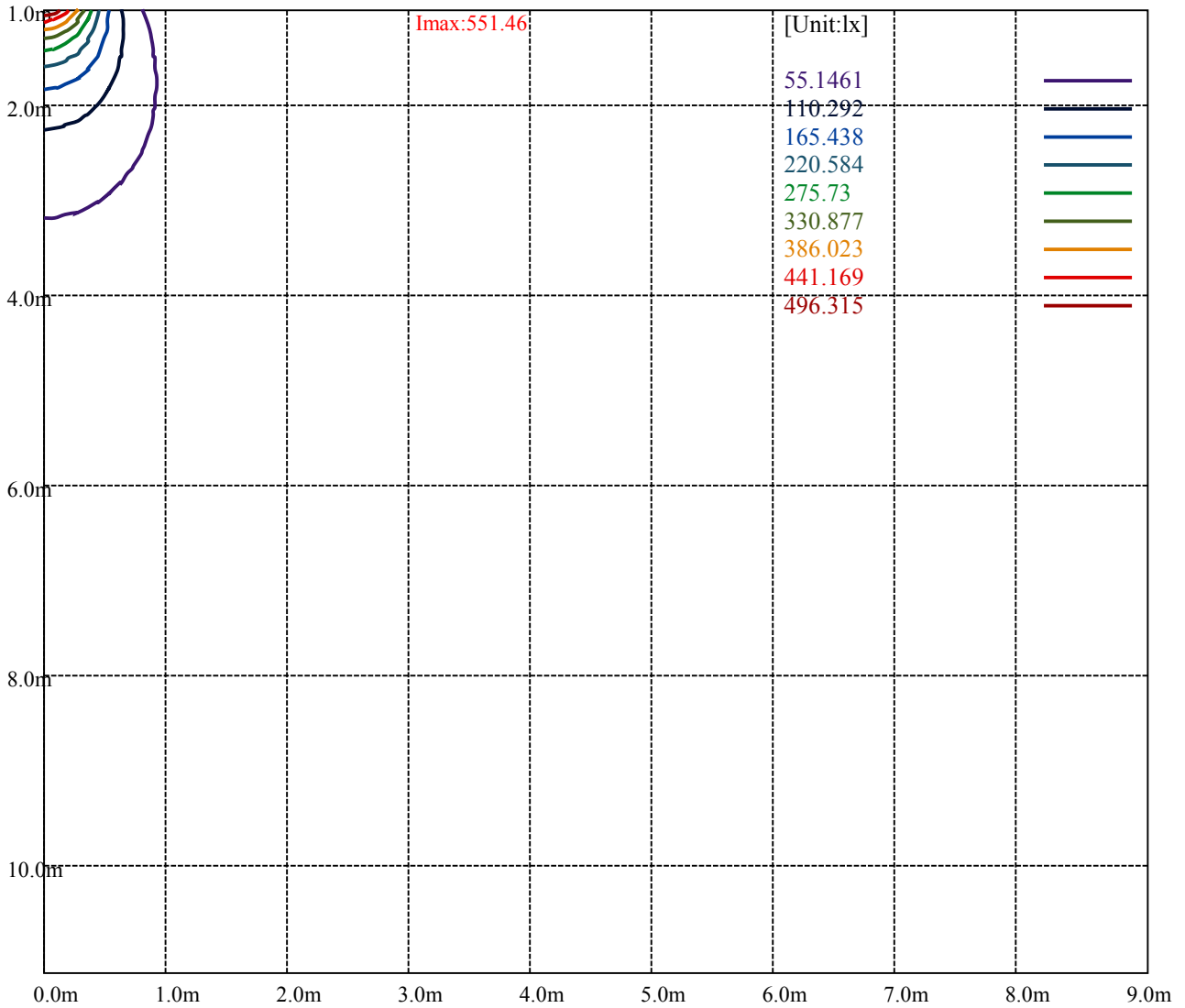
Road

Imax:551.46

(10%Imax) 55.1461	
(20%Imax) 110.292	
(30%Imax) 165.438	
(40%Imax) 220.584	
(50%Imax) 275.73	
(60%Imax) 330.877	
(70%Imax) 386.023	
(80%Imax) 441.169	
(90%Imax) 496.315	



(10%Emax) 6.127344	—
(20%Emax) 12.25467	—
(30%Emax) 18.382	—
(40%Emax) 24.50933	—
(50%Emax) 30.63667	—
(60%Emax) 36.764	—
(70%Emax) 42.89133	—
(80%Emax) 49.01867	—
(90%Emax) 55.14611	—



Luminance Table

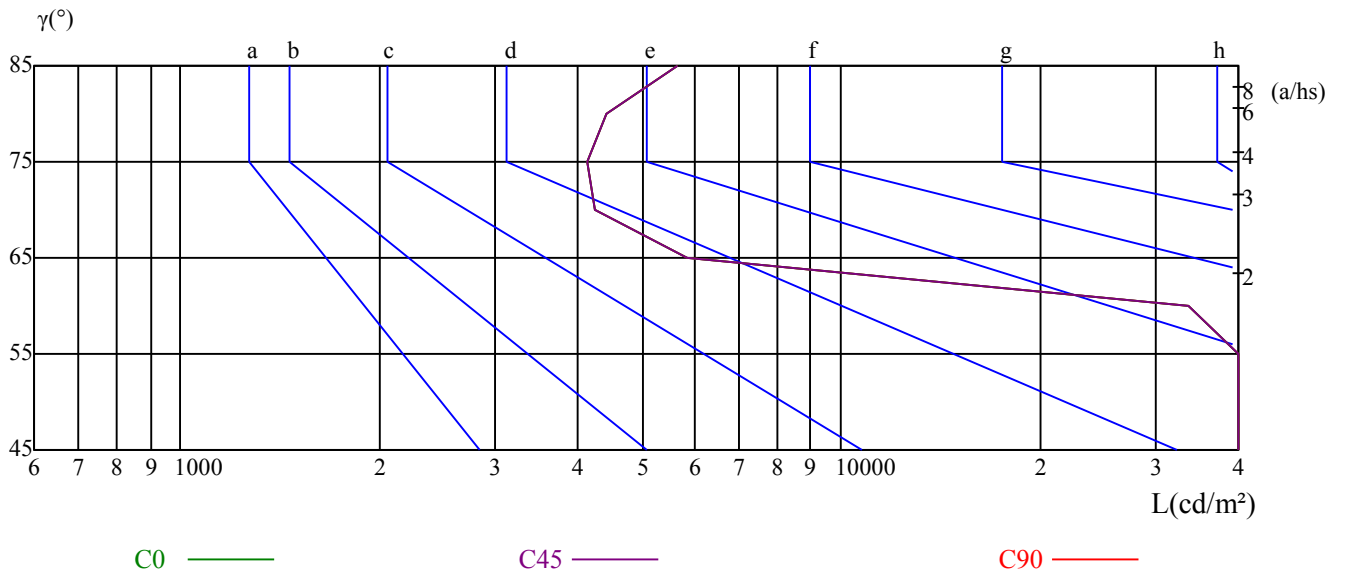
γ	45	50	55	60	65	70	75	80	85
C0	46650	52836	53885	33658	5848	4245	4131	4405	5640
C45	46650	52836	53885	33658	5848	4245	4131	4405	5640
C90	46650	52836	53885	33658	5848	4245	4131	4405	5640

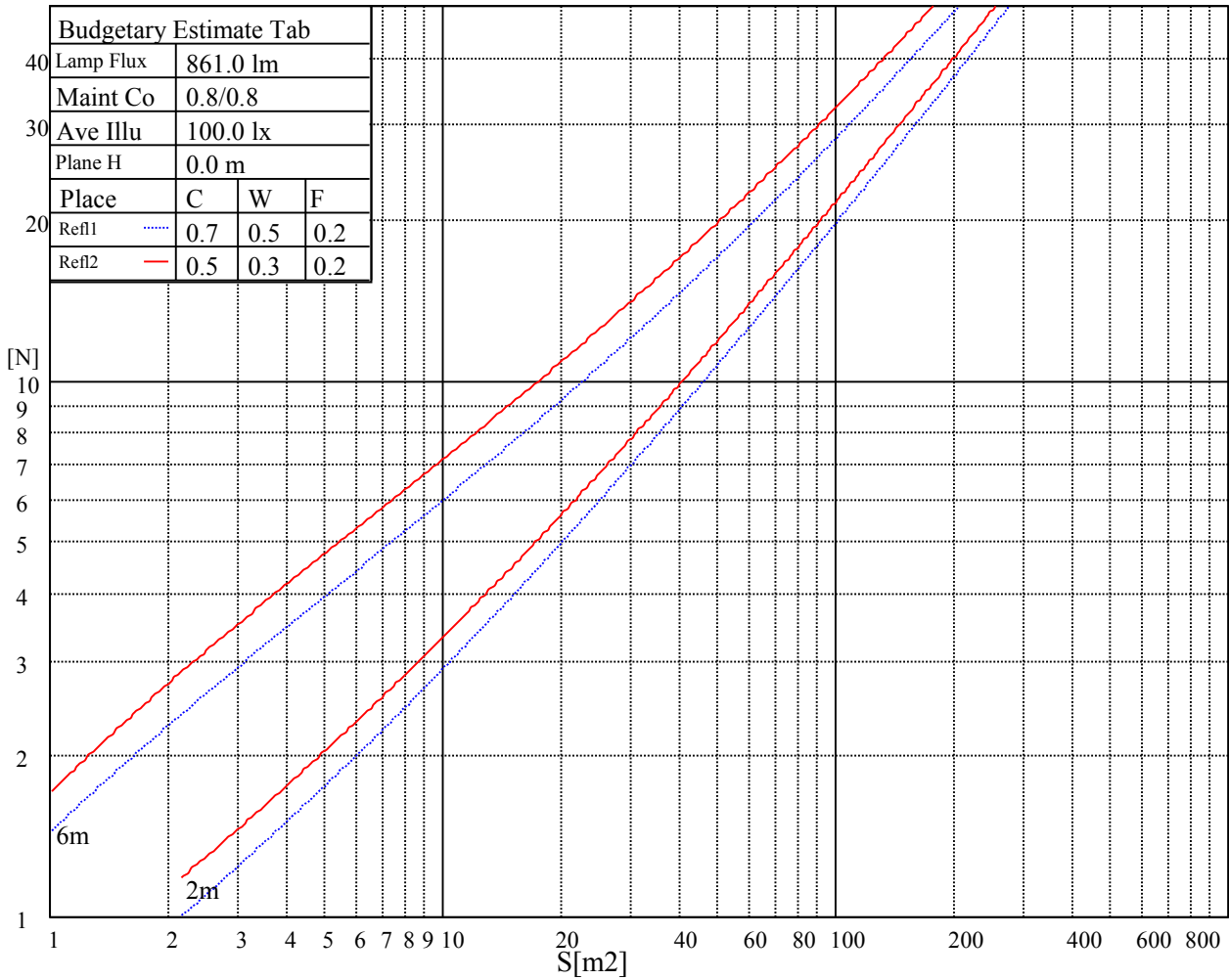
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5848	5848	5848	4131	4131	4131	5640	5640	5640

Glare Table

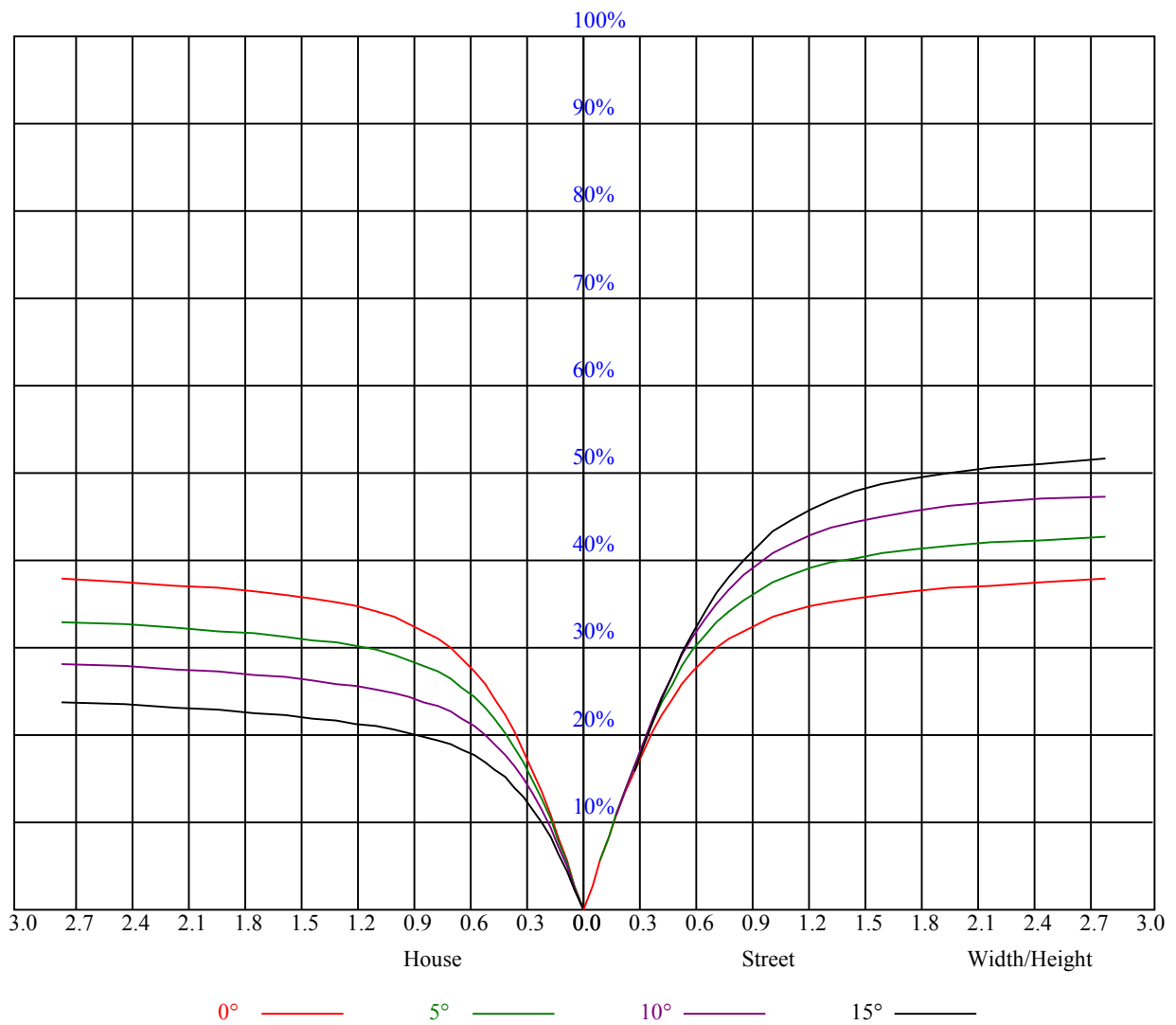
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

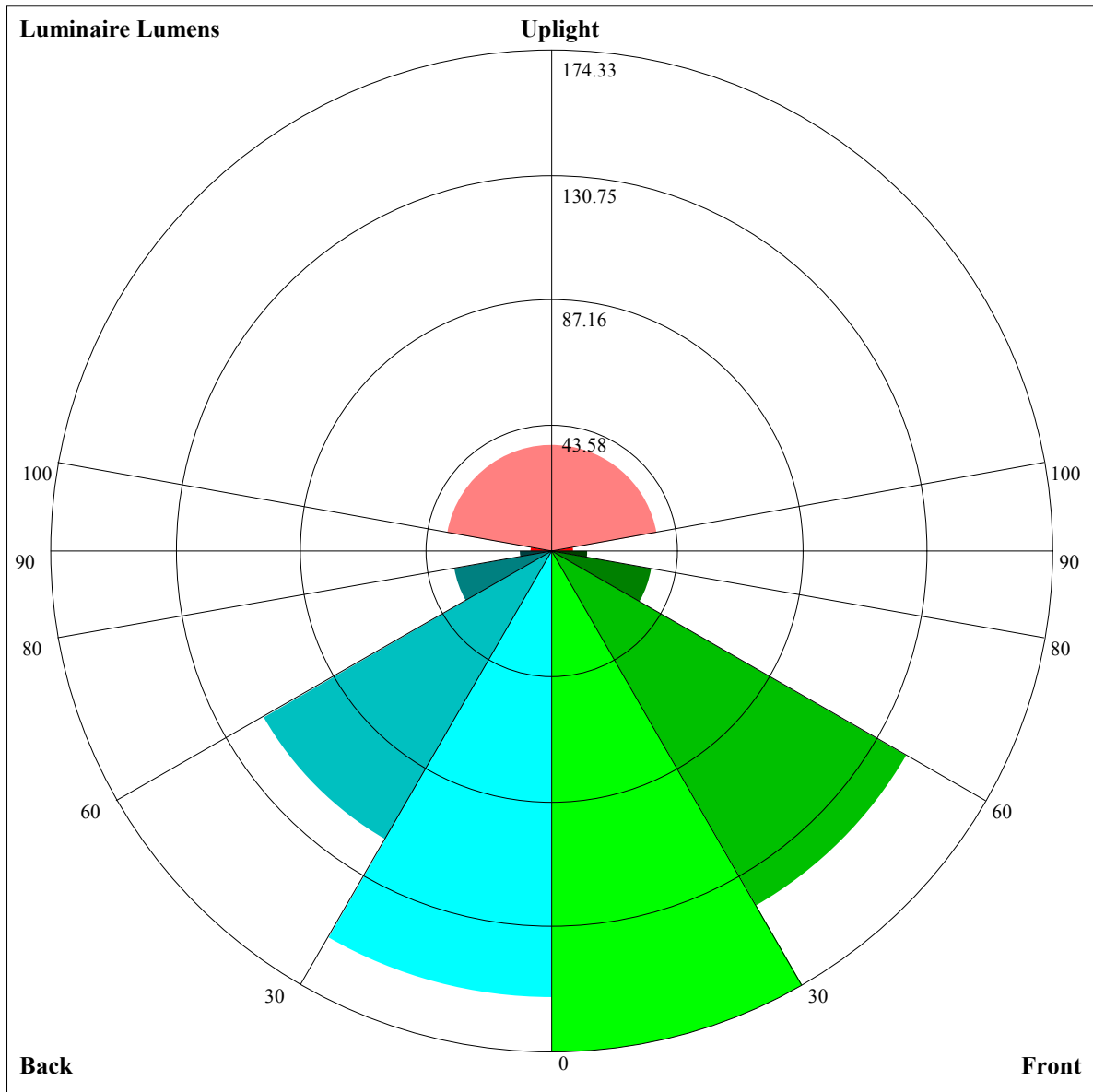
Luminance Limiting Curve





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	0.95	0.95	0.95	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.82	0.82	0.82	0.80
1	0.85	0.82	0.79	0.83	0.80	0.78	0.79	0.77	0.75	0.76	0.75	0.73	0.74	0.72	0.71	0.69
2	0.76	0.71	0.68	0.75	0.70	0.67	0.72	0.68	0.65	0.69	0.66	0.64	0.67	0.65	0.62	0.61
3	0.69	0.63	0.59	0.68	0.63	0.59	0.66	0.61	0.58	0.63	0.60	0.57	0.61	0.58	0.56	0.54
4	0.63	0.57	0.53	0.62	0.56	0.52	0.60	0.55	0.52	0.58	0.54	0.51	0.57	0.53	0.50	0.49
5	0.58	0.52	0.47	0.57	0.51	0.47	0.55	0.50	0.47	0.54	0.50	0.46	0.53	0.49	0.46	0.44
6	0.53	0.47	0.43	0.53	0.47	0.43	0.51	0.46	0.42	0.50	0.46	0.42	0.49	0.45	0.42	0.40
7	0.50	0.44	0.39	0.49	0.43	0.39	0.48	0.43	0.39	0.47	0.42	0.39	0.46	0.42	0.38	0.37
8	0.46	0.40	0.36	0.46	0.40	0.36	0.45	0.40	0.36	0.44	0.39	0.36	0.43	0.39	0.36	0.34
9	0.43	0.37	0.34	0.43	0.37	0.33	0.42	0.37	0.33	0.41	0.36	0.33	0.40	0.36	0.33	0.32
10	0.40	0.35	0.31	0.40	0.35	0.31	0.39	0.34	0.31	0.39	0.34	0.31	0.38	0.34	0.31	0.30





Luminaire Lumens:

FL=174.33,FM=142.57,FH=35.56,FVH=12.84

BL=155.5,BM=116.24,BH=34.7,BVH=11.36

UL=7.85,UH=37.35

BUG Rating:B1-U2-G1

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	556.03	560.70	541.80	504.51	453.94	390.60	326.87	256.05	194.06
45.0	550.46	558.28	545.18	510.02	463.78	400.56	331.48	254.93	193.89
90.0	551.03	547.03	522.06	475.65	419.40	347.85	275.46	207.45	152.78
135.0	548.33	532.07	497.36	443.53	380.93	313.93	246.38	183.21	139.61
180.0	556.03	524.53	481.16	415.24	345.94	276.53	212.57	158.29	121.28
225.0	550.46	521.16	476.44	418.11	351.62	277.54	213.30	160.88	121.73
270.0	551.03	533.14	497.70	443.59	383.63	309.26	236.87	175.44	128.93
315.0	548.33	542.81	516.38	469.69	409.78	337.56	272.36	205.31	154.24
360.0	556.03	560.70	541.80	504.51	453.94	390.60	326.87	256.05	194.06
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	142.76	101.31	64.58	44.94	37.80	35.55	33.24	30.83	32.01
45.0	137.19	98.21	65.76	43.14	35.72	38.76	34.09	31.44	28.63
90.0	108.23	78.08	52.03	40.33	36.17	34.09	31.61	28.91	25.26
135.0	101.03	72.06	49.28	38.93	35.89	34.76	32.51	30.21	26.83
180.0	87.19	61.26	43.71	37.91	35.38	33.86	31.56	33.75	22.95
225.0	88.76	63.17	44.72	38.36	36.00	34.48	31.78	28.86	23.06
270.0	93.32	66.09	47.42	38.53	34.82	33.02	30.83	28.35	24.13
315.0	113.68	79.37	51.81	39.71	35.94	34.14	32.01	29.98	27.34
360.0	142.76	101.31	64.58	44.94	37.80	35.55	33.24	30.83	32.01
C/ γ (°)	90.0								
0.0	13.78								
45.0	12.21								
90.0	8.32								
135.0	3.60								
180.0	3.43								
225.0	3.43								
270.0	3.77								
315.0	9.00								
360.0	13.78								