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## Nata

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LumCAT: 1-0788-M	
Luminaire: 92.70.122.00	
Report No: NATA0100	Voltage(V): 37.6000
Test No: GC2018080211	Current(A): 0.2000
LampCAT: BRIDGELUX V4 HD	Power (W): 7.5200
Lamp flux(lm): 719.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 46	Width(mm): 46
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 666.95  
Efficiency(%): 92.76%  
Lumens(lm)/Power(W): 89.60  
Central intensity(cd): 1251.157  
Maximum intensity(cd): 1251.157  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=33.2  
                                  [C90/270]Total=33.2  
Field angle(10%Imax): [C0/180]Total=84.4  
                                  [C90/270]Total=84.4  
Maximum s/h(1/2): C0\_180=0.54 C90\_270=0.54  
Maximum s/h(1/4): C0\_180=0.59 C90\_270=0.59  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 93.71%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.805%

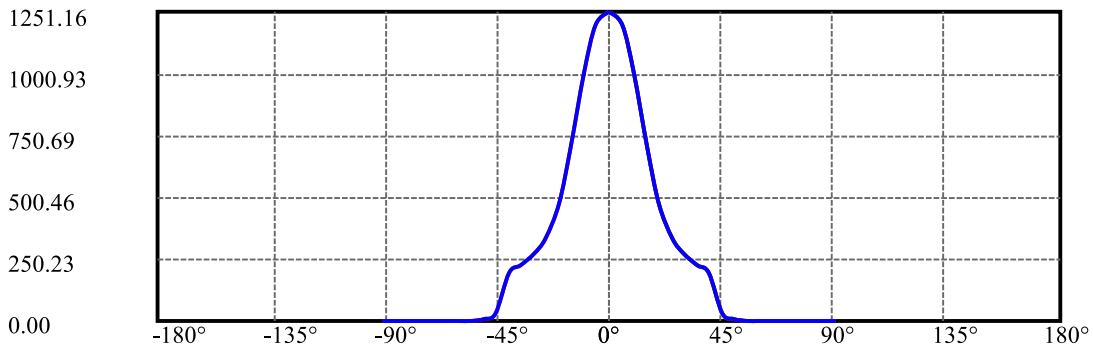
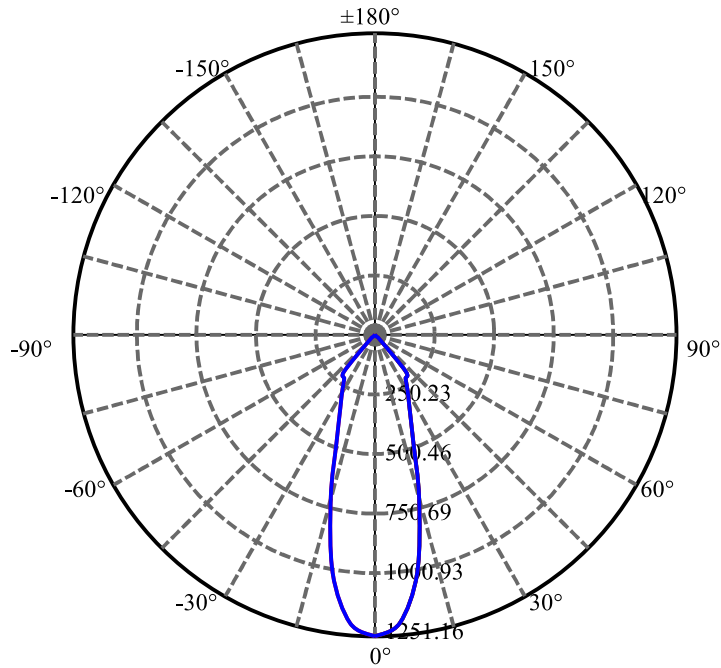
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1251.157	7.482	7.482	1.041%	1.122%
5.0	1199.817	57.319	64.801	7.972%	9.716%
10.0	999.893	95.173	159.974	13.237%	23.986%
15.0	697.833	99.000	258.975	13.769%	38.830%
20.0	473.375	88.746	347.72	12.343%	52.136%
25.0	334.316	77.445	425.166	10.771%	63.748%
30.0	268.503	73.588	498.754	10.235%	74.782%
35.0	226.640	71.255	570.009	9.910%	85.465%
40.0	197.508	69.589	639.598	9.679%	95.899%
45.0	34.520	13.380	652.978	1.861%	97.906%
50.0	6.841	2.872	655.85	.400%	98.336%
55.0	3.661	1.644	657.494	.229%	98.583%
60.0	3.186	1.513	659.007	.210%	98.810%
65.0	2.932	1.456	660.463	.203%	99.028%
70.0	2.801	1.443	661.906	.201%	99.244%
75.0	2.712	1.436	663.342	.200%	99.459%
80.0	2.663	1.438	664.779	.200%	99.675%
85.0	2.643	1.443	666.223	.201%	99.891%
90.0	2.643	0.724	666.947	.101%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	498.75	69.37%	74.78%
0-40	639.60	88.96%	95.90%
0-60	659.01	91.66%	98.81%
0-90	666.22	92.66%	99.89%
0-120	666.22	92.66%	99.89%
0-180	666.95	92.76%	100.00%
60-90	8.73	1.21%	1.31%
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%
0-32.44	533.56	74.21%	80.00%

ZONAL LUMEN SUMMARY

0-10	159.97
10-20	187.75
20-30	151.03
30-40	140.84
40-50	16.25
50-60	3.16
60-70	2.90
70-80	2.87
80-90	1.44
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): —————

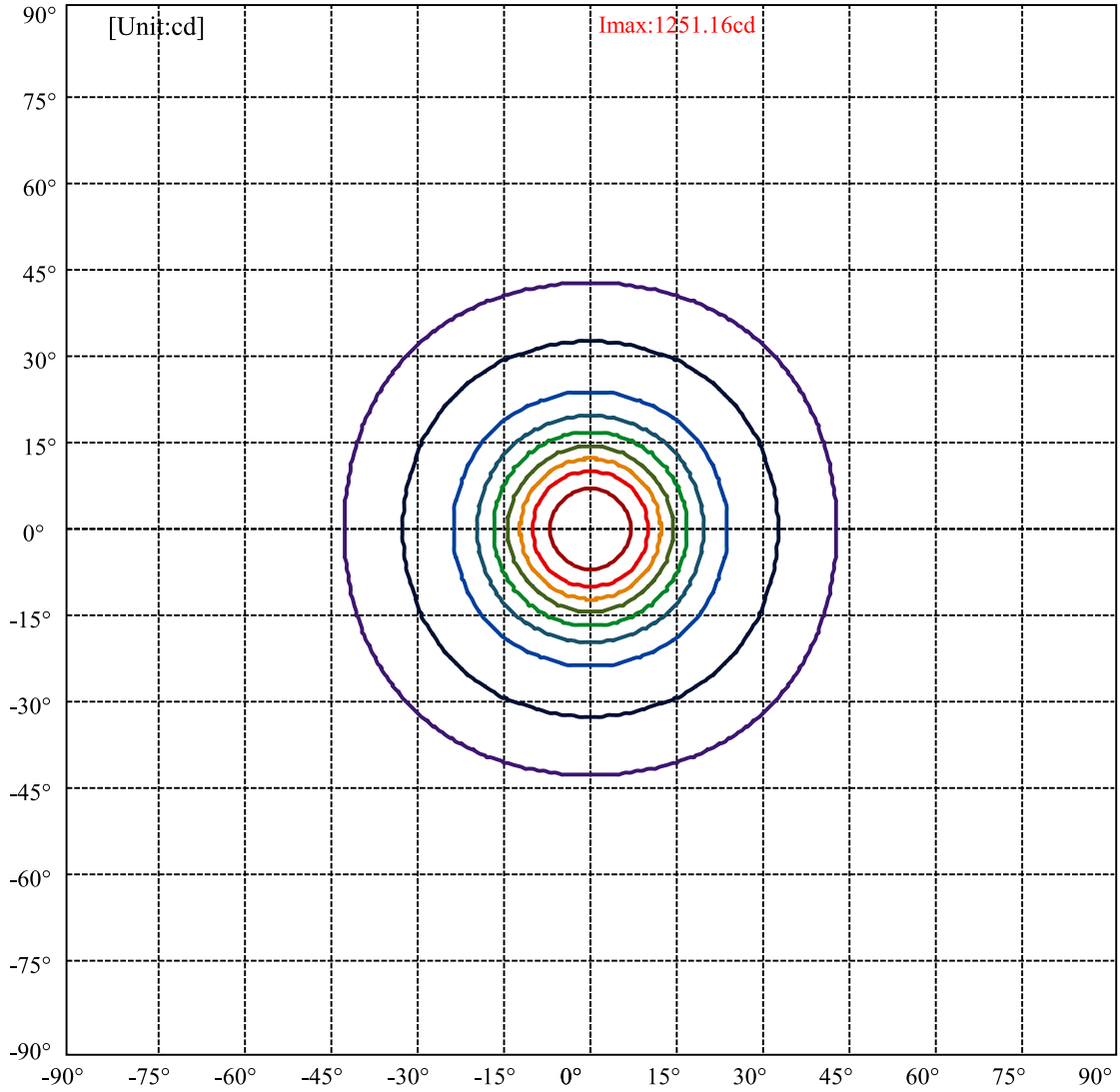
C0/C180: —————

C90/C270: —————

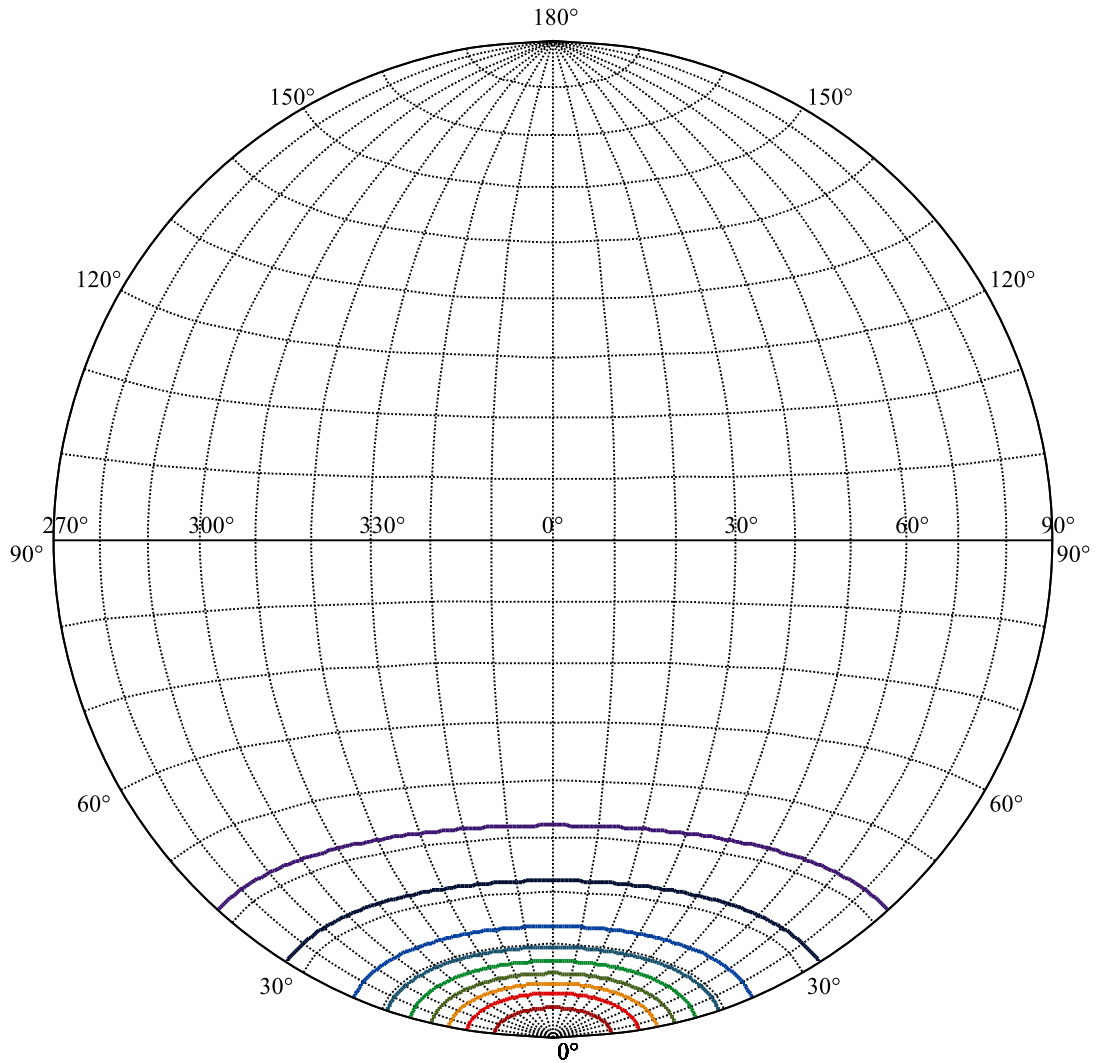
Field angle(10%Imax):C0/180Left:42.2 Right:42.2  
:C90/270Left:42.2 Right:42.2

Beam Angle(50%Imax):C0/180Left:16.6 Right:16.6  
:C90/270Left:16.6 Right:16.6





(10%Imax) 125.116	—
(20%Imax) 250.231	—
(30%Imax) 375.347	—
(40%Imax) 500.463	—
(50%Imax) 625.578	—
(60%Imax) 750.694	—
(70%Imax) 875.81	—
(80%Imax) 1000.93	—
(90%Imax) 1126.04	—



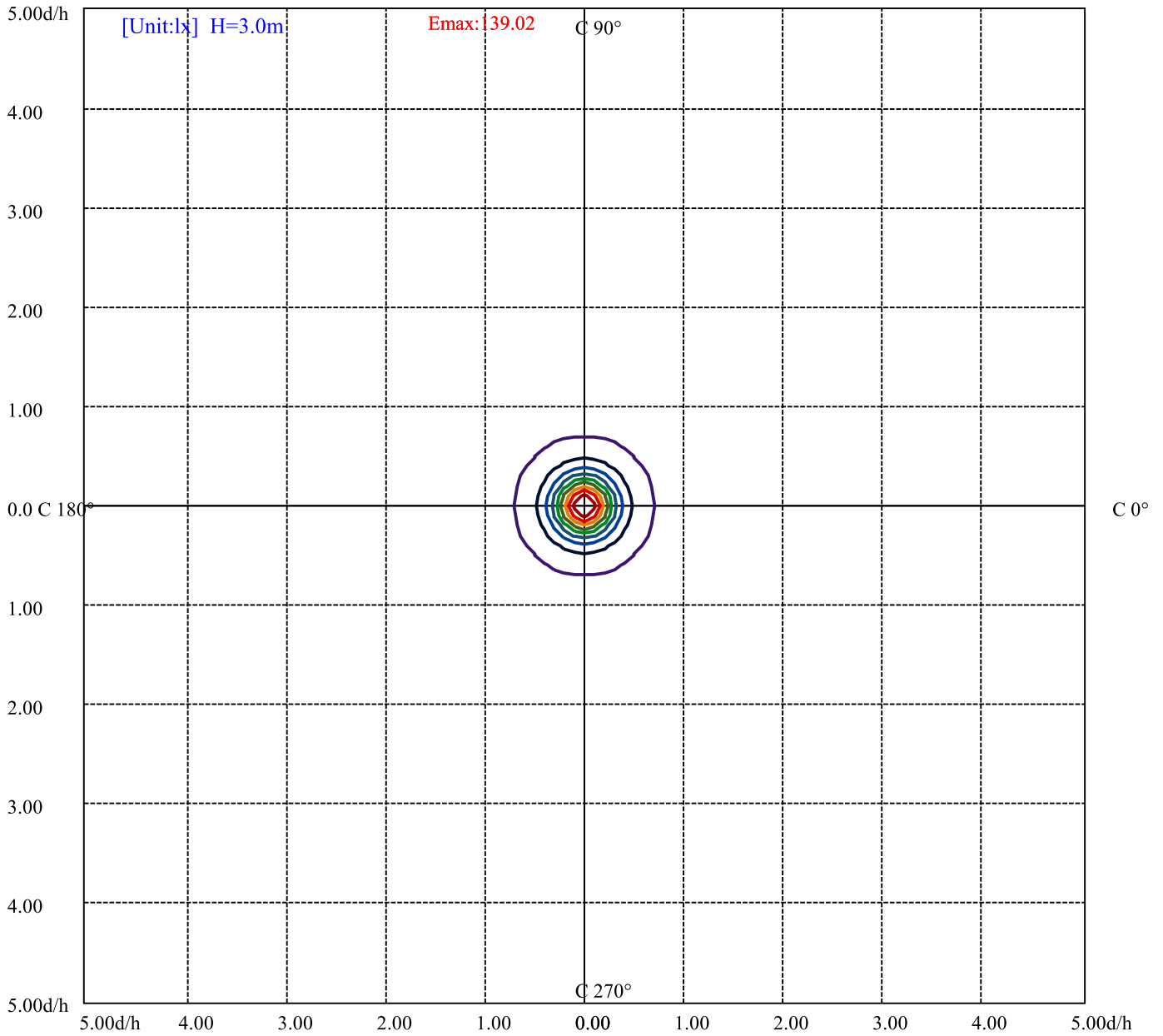
House

[Unit:cd]

Road

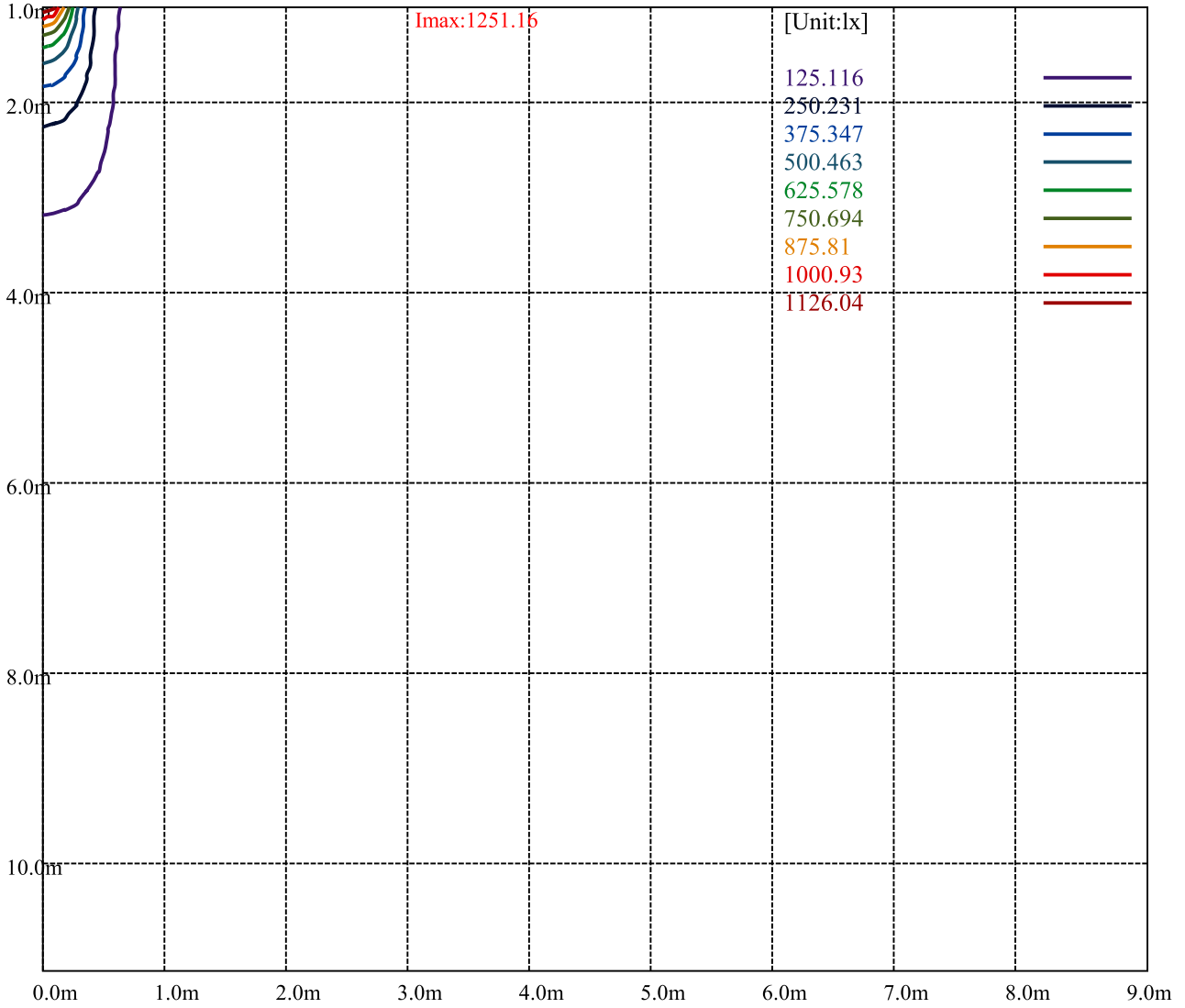
Imax:1251.16

(10%Imax)	125.116	—
(20%Imax)	250.231	—
(30%Imax)	375.347	—
(40%Imax)	500.463	—
(50%Imax)	625.578	—
(60%Imax)	750.694	—
(70%Imax)	875.81	—
(80%Imax)	1000.93	—
(90%Imax)	1126.04	—



- (10%Emax) 13.90178
- (20%Emax) 27.80344
- (30%Emax) 41.70522
- (40%Emax) 55.60689
- (50%Emax) 69.50867
- (60%Emax) 83.41033
- (70%Emax) 97.31211
- (80%Emax) 111.2133
- (90%Emax) 125.1156





Luminance Table

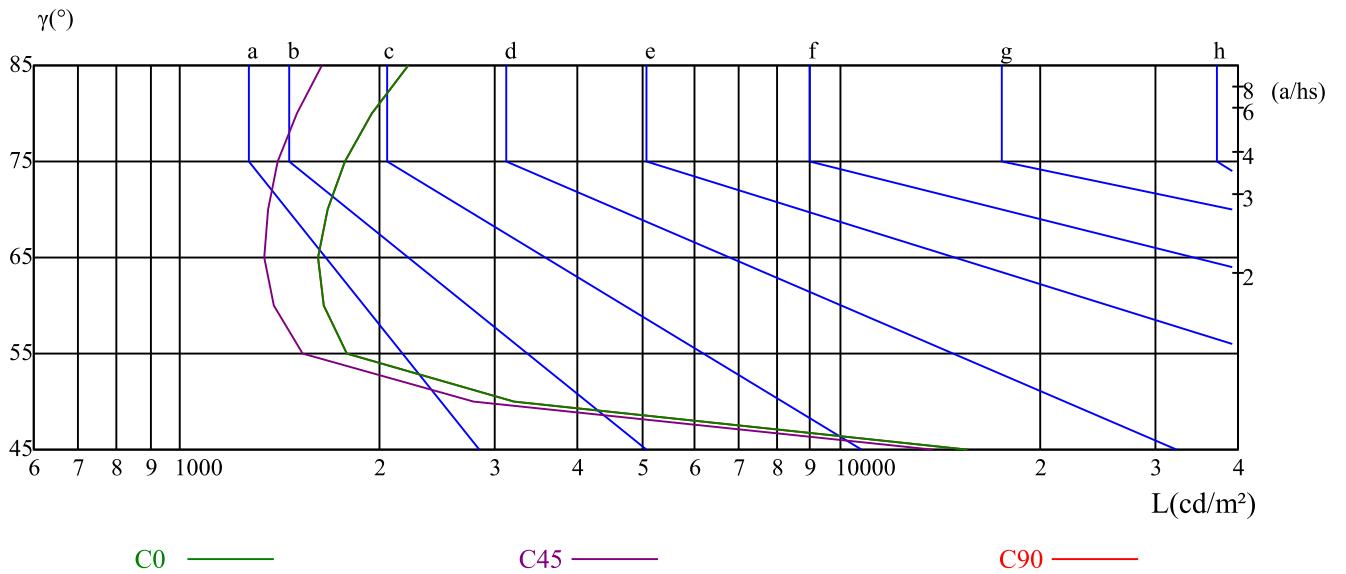
$\gamma$	45	50	55	60	65	70	75	80	85
C0	15607	3204	1792	1647	1618	1673	1778	1953	2216
C45	13763	2785	1534	1387	1338	1354	1405	1499	1641
C90	15607	3204	1792	1647	1618	1673	1778	1953	2216

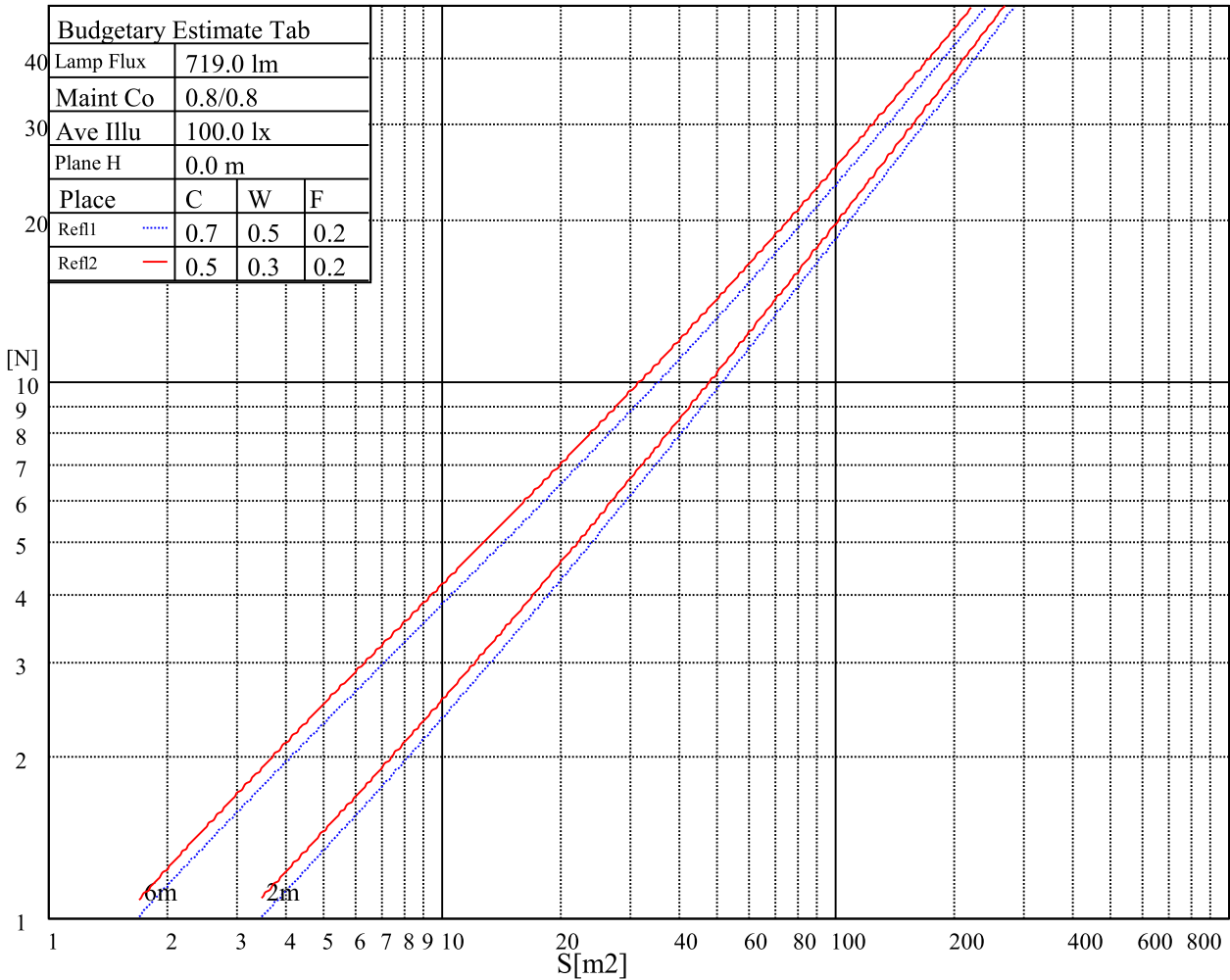
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3278	3278	3278	4951	4951	4951	14330	14330	14330

Glare Table

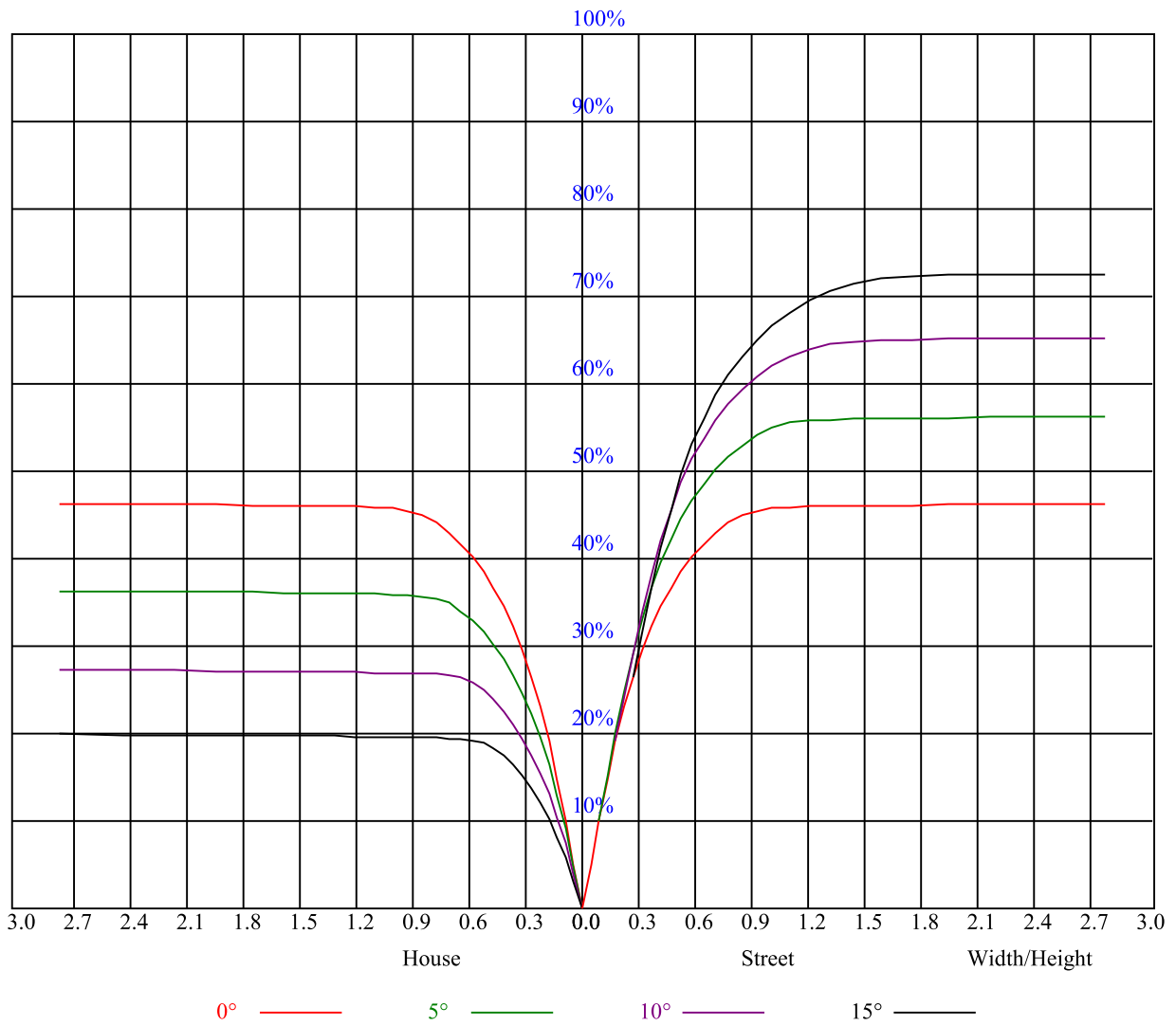
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.12	1.12	1.12	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.03	1.00	0.98	1.01	0.99	0.97	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.89	0.88	0.86
2	0.97	0.93	0.90	0.95	0.91	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.81
3	0.91	0.86	0.83	0.90	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.79	0.83	0.80	0.78	0.77
4	0.86	0.81	0.77	0.85	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.73
5	0.81	0.76	0.72	0.80	0.75	0.72	0.79	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.69
6	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.65
7	0.73	0.68	0.64	0.73	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
8	0.70	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.59
9	0.67	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.56
10	0.64	0.59	0.56	0.63	0.59	0.56	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.54



Intensity data(cd)

<b>C/γ(°)</b>	<b>0.0</b>	<b>5.0</b>	<b>10.0</b>	<b>15.0</b>	<b>20.0</b>	<b>25.0</b>	<b>30.0</b>	<b>35.0</b>	<b>40.0</b>
<b>0.0</b>	1252.53	1227.21	1047.17	751.52	514.78	363.37	278.59	231.29	200.90
<b>45.0</b>	1242.62	1229.41	1045.52	738.86	505.97	357.87	280.24	233.27	204.42
<b>90.0</b>	1250.88	1199.13	981.82	673.67	449.43	316.63	259.26	224.35	195.23
<b>135.0</b>	1258.59	1221.70	1036.16	721.79	499.91	336.95	278.03	225.29	197.87
<b>180.0</b>	1252.53	1185.91	945.32	663.93	440.01	310.57	253.87	218.13	185.54
<b>225.0</b>	1242.62	1153.43	949.56	645.43	429.99	312.28	259.21	223.42	194.40
<b>270.0</b>	1250.88	1193.07	1032.86	716.83	486.15	346.86	278.59	231.79	204.97
<b>315.0</b>	1258.59	1188.67	960.73	670.64	460.77	330.01	260.25	225.57	196.72
<b>360.0</b>	1252.53	1227.21	1047.17	751.52	514.78	363.37	278.59	231.29	200.90
<b>C/γ(°)</b>	<b>45.0</b>	<b>50.0</b>	<b>55.0</b>	<b>60.0</b>	<b>65.0</b>	<b>70.0</b>	<b>75.0</b>	<b>80.0</b>	<b>85.0</b>
<b>0.0</b>	63.59	8.26	3.96	3.25	2.97	2.86	2.75	2.64	2.64
<b>45.0</b>	62.32	7.87	3.80	3.30	3.03	2.86	2.75	2.70	2.64
<b>90.0</b>	25.82	6.61	3.47	3.14	2.92	2.81	2.70	2.70	2.64
<b>135.0</b>	34.80	7.21	3.85	3.19	2.92	2.75	2.70	2.64	2.64
<b>180.0</b>	12.88	5.01	3.36	3.08	2.86	2.75	2.70	2.64	2.64
<b>225.0</b>	15.25	5.62	3.41	3.14	2.92	2.75	2.70	2.64	2.64
<b>270.0</b>	38.48	7.32	3.85	3.19	2.92	2.81	2.70	2.70	2.64
<b>315.0</b>	23.01	6.83	3.58	3.19	2.92	2.81	2.70	2.64	2.64
<b>360.0</b>	63.59	8.26	3.96	3.25	2.97	2.86	2.75	2.64	2.64
<b>C/γ(°)</b>	<b>90.0</b>								
<b>0.0</b>	2.64								
<b>45.0</b>	2.64								
<b>90.0</b>	2.64								
<b>135.0</b>	2.64								
<b>180.0</b>	2.64								
<b>225.0</b>	2.64								
<b>270.0</b>	2.64								
<b>315.0</b>	2.64								
<b>360.0</b>	2.64								