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## Nata

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LumCAT: 2-1299-N  
Luminaire: 92.70.065.00+92.70.059.00  
Report No: NATA0100  
Test No: GC20180712005  
LampCAT: BRIDGELUX V9 HD  
Lamp flux(lm): 1191.0  
Number of Lamps: 1  
Length(mm): 70  
Phm Type: C

Voltage(V): 34.1000  
Current(A): 0.3000  
Power (W): 10.2300  
PF: 1.0000  
Ballast type: DC  
Width(mm): 70  
Height(mm): 0

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## Photometric Results

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Lumens(lm): 945.59  
Efficiency(%): 79.39%  
Lumens(lm)/Power(W): 92.43  
Central intensity(cd): 5798.540  
Maximum intensity(cd): 5798.540  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=18.2  
                                  [C90/270]Total=18.2  
Field angle(10%Imax): [C0/180]Total=36.8  
                                  [C90/270]Total=36.8  
Maximum s/h(1/2): C0\_180=0.31 C90\_270=0.31  
Maximum s/h(1/4): C0\_180=0.33 C90\_270=0.33  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 82.23%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 94.652%

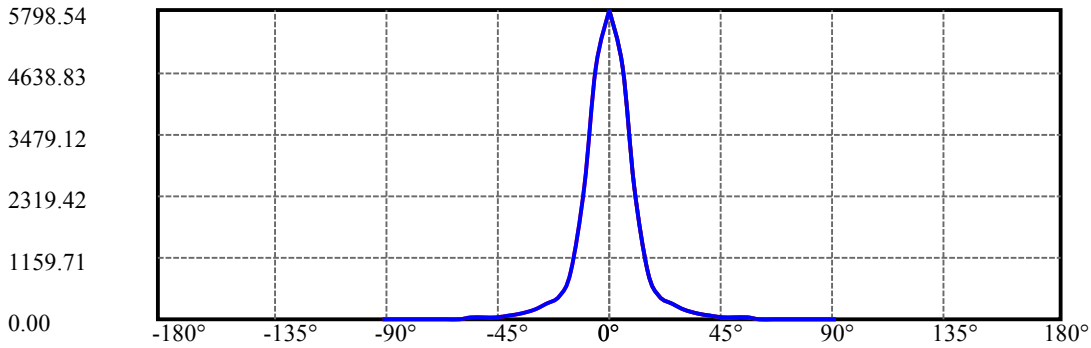
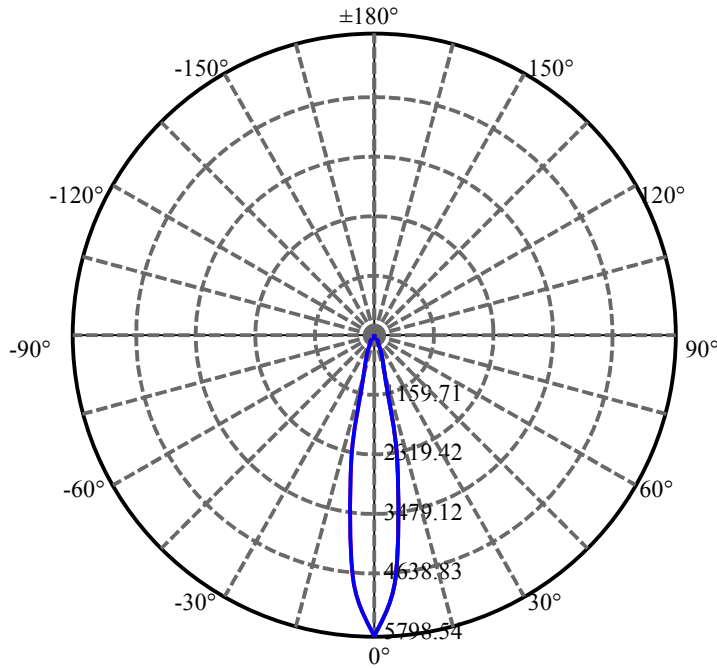
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5798.540	34.676	34.676	2.912%	3.667%
5.0	4724.459	225.703	260.38	18.951%	27.536%
10.0	2487.104	236.730	497.11	19.877%	52.571%
15.0	902.402	128.022	625.132	10.749%	66.110%
20.0	429.949	80.604	705.736	6.768%	74.634%
25.0	271.800	62.963	768.699	5.287%	81.293%
30.0	174.233	47.752	816.451	4.009%	86.343%
35.0	113.815	35.783	852.235	3.004%	90.127%
40.0	78.359	27.609	879.843	2.318%	93.047%
45.0	48.807	18.917	898.761	1.588%	95.048%
50.0	31.568	13.255	912.016	1.113%	96.449%
55.0	19.820	8.899	920.915	.747%	97.391%
60.0	12.801	6.076	926.992	.510%	98.033%
65.0	8.905	4.424	931.416	.371%	98.501%
70.0	7.680	3.956	935.372	.332%	98.919%
75.0	6.682	3.538	938.91	.297%	99.294%
80.0	5.678	3.065	941.975	.257%	99.618%
85.0	4.645	2.537	944.512	.213%	99.886%
90.0	3.937	1.079	945.59	.091%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	816.45	68.55%	86.34%
0-40	879.84	73.87%	93.05%
0-60	926.99	77.83%	98.03%
0-90	944.51	79.30%	99.89%
0-120	944.51	79.30%	99.89%
0-180	945.59	79.39%	100.00%
60-90	23.60	1.98%	2.50%
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%
0-24.03	756.47	63.52%	80.00%

ZONAL LUMEN SUMMARY

0-10	497.11
10-20	208.63
20-30	110.71
30-40	63.39
40-50	32.17
50-60	14.98
60-70	8.38
70-80	6.60
80-90	2.54
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



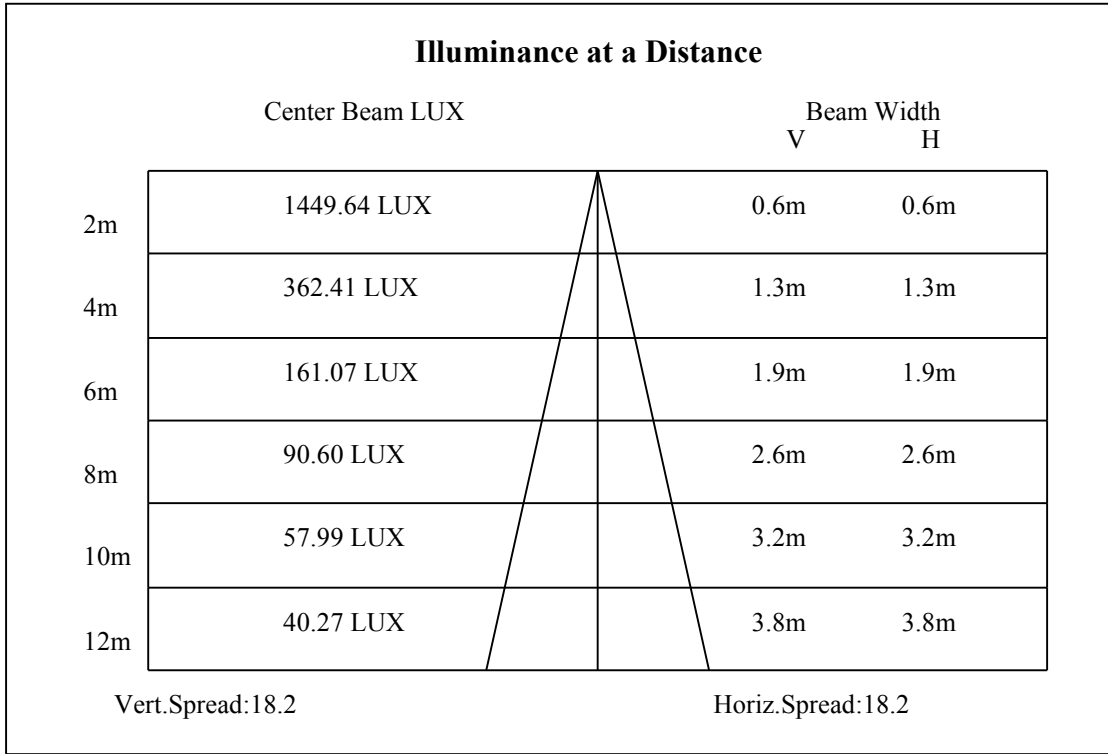
C0(Max): —————

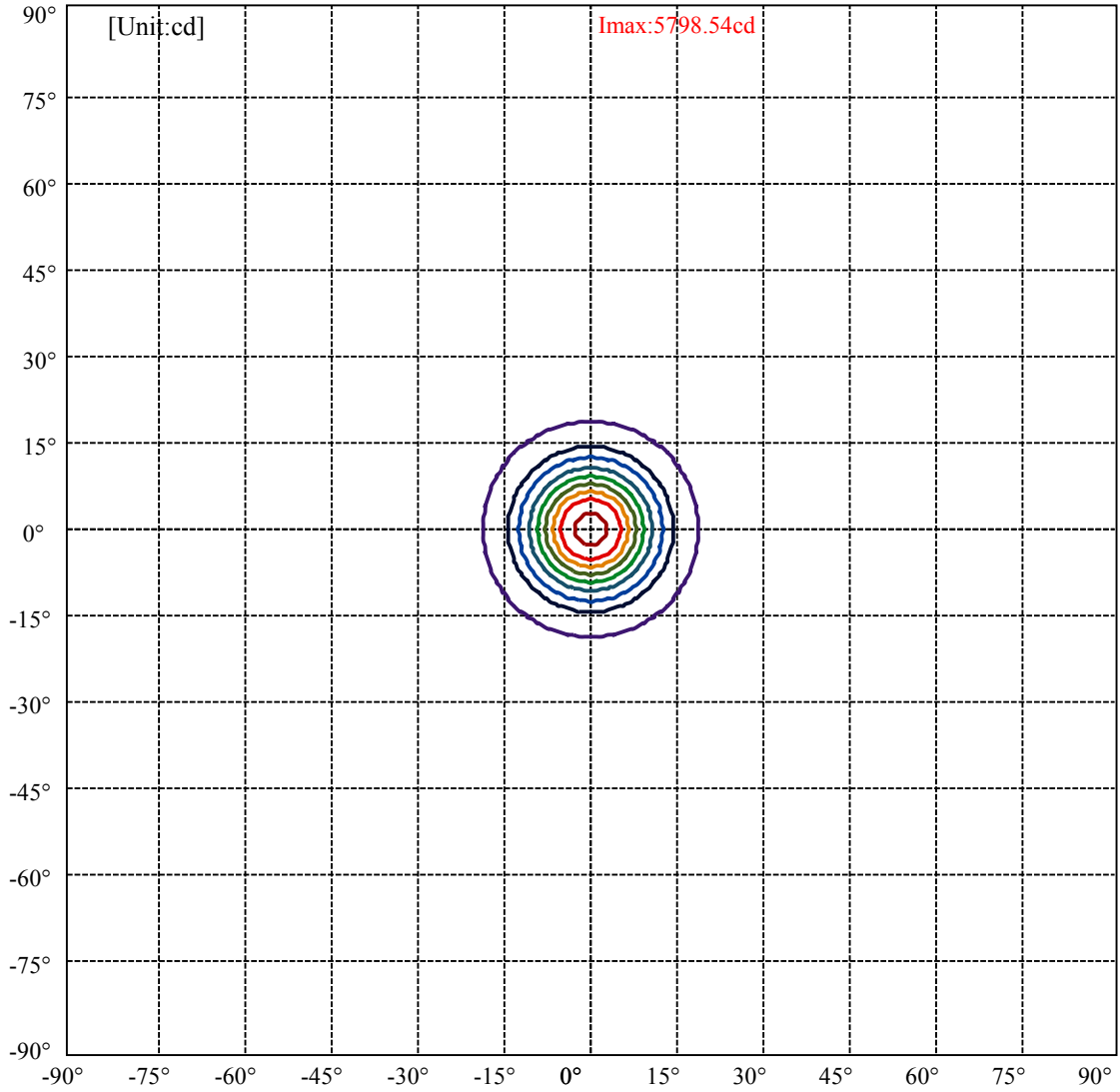
C0/C180: —————

C90/C270: —————

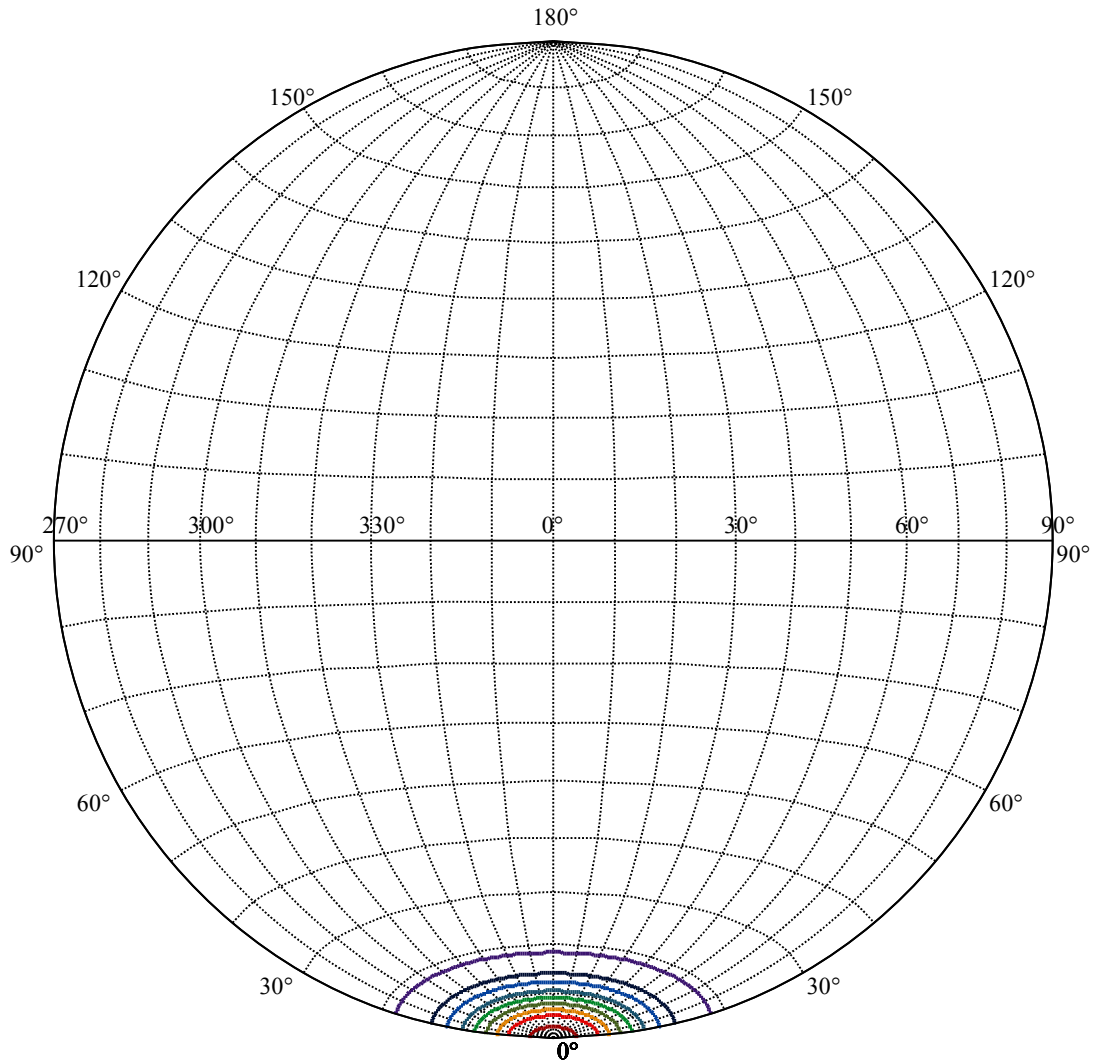
Field angle(10%Imax):C0/180Left:18.4 Right:18.4  
:C90/270Left:18.4 Right:18.4

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





(10%I <sub>max</sub> ) 579.854	—
(20%I <sub>max</sub> ) 1159.71	—
(30%I <sub>max</sub> ) 1739.56	—
(40%I <sub>max</sub> ) 2319.42	—
(50%I <sub>max</sub> ) 2899.27	—
(60%I <sub>max</sub> ) 3479.12	—
(70%I <sub>max</sub> ) 4058.98	—
(80%I <sub>max</sub> ) 4638.83	—
(90%I <sub>max</sub> ) 5218.69	—



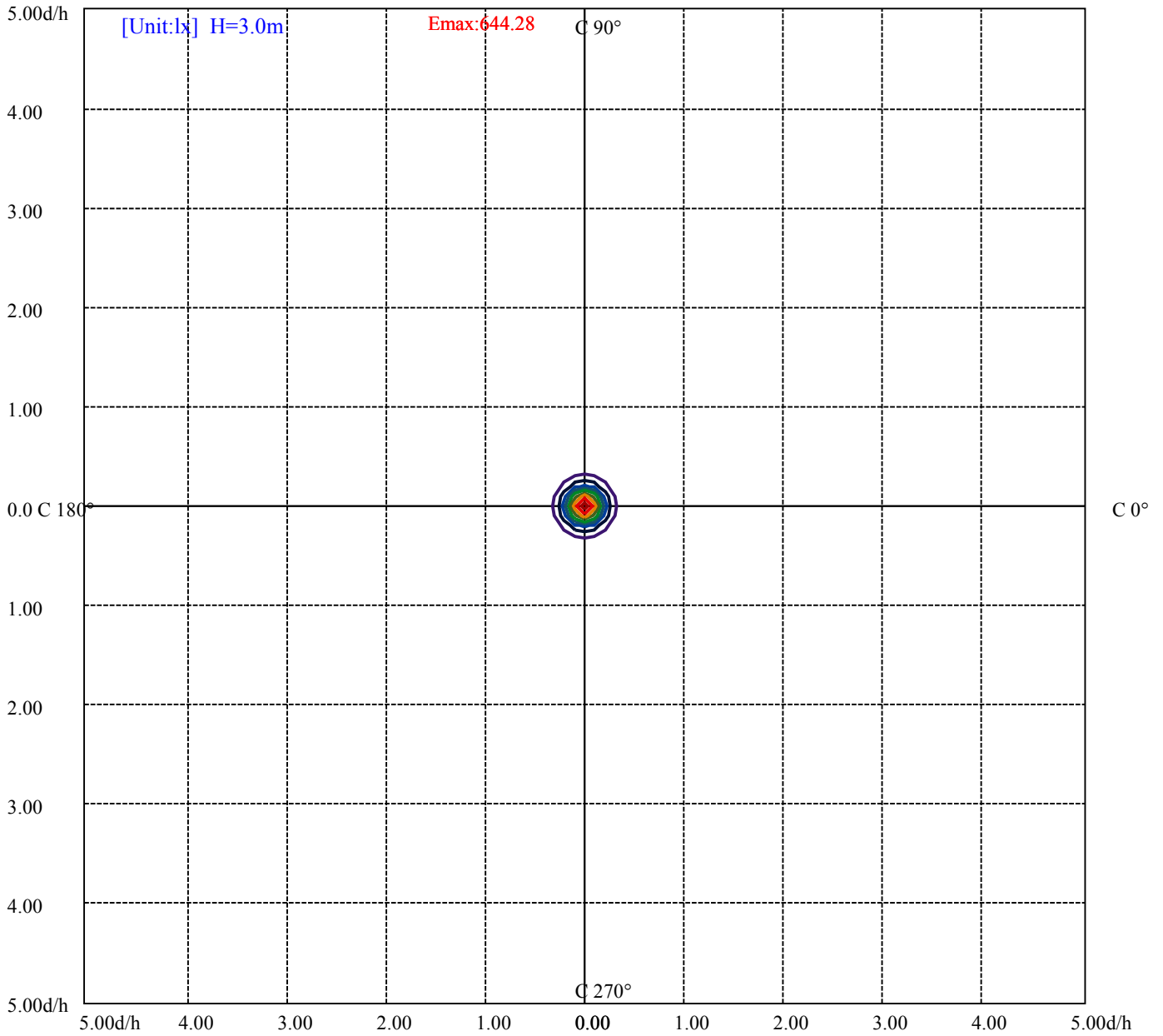
House

[Unit:cd]

Road

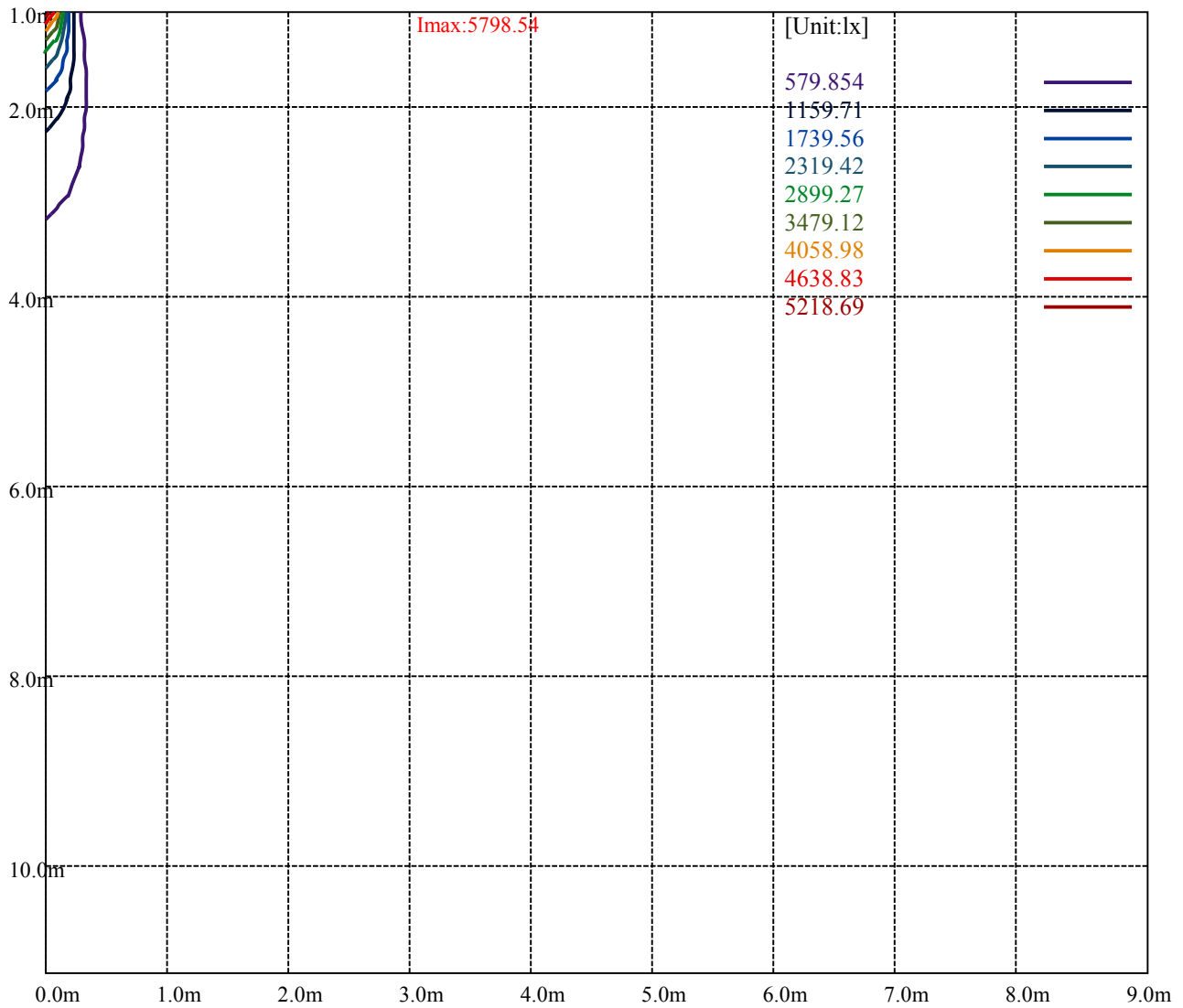
**Imax:5798.54**

(10%Imax) 579.854	—
(20%Imax) 1159.71	—
(30%Imax) 1739.56	—
(40%Imax) 2319.42	—
(50%Imax) 2899.27	—
(60%Imax) 3479.12	—
(70%Imax) 4058.98	—
(80%Imax) 4638.83	—
(90%Imax) 5218.69	—



- (10%Emax) 64.42789
- (20%Emax) 128.8555
- (30%Emax) 193.2833
- (40%Emax) 257.7111
- (50%Emax) 322.1389
- (60%Emax) 386.5667
- (70%Emax) 450.9955
- (80%Emax) 515.4233
- (90%Emax) 579.8511





Luminance Table

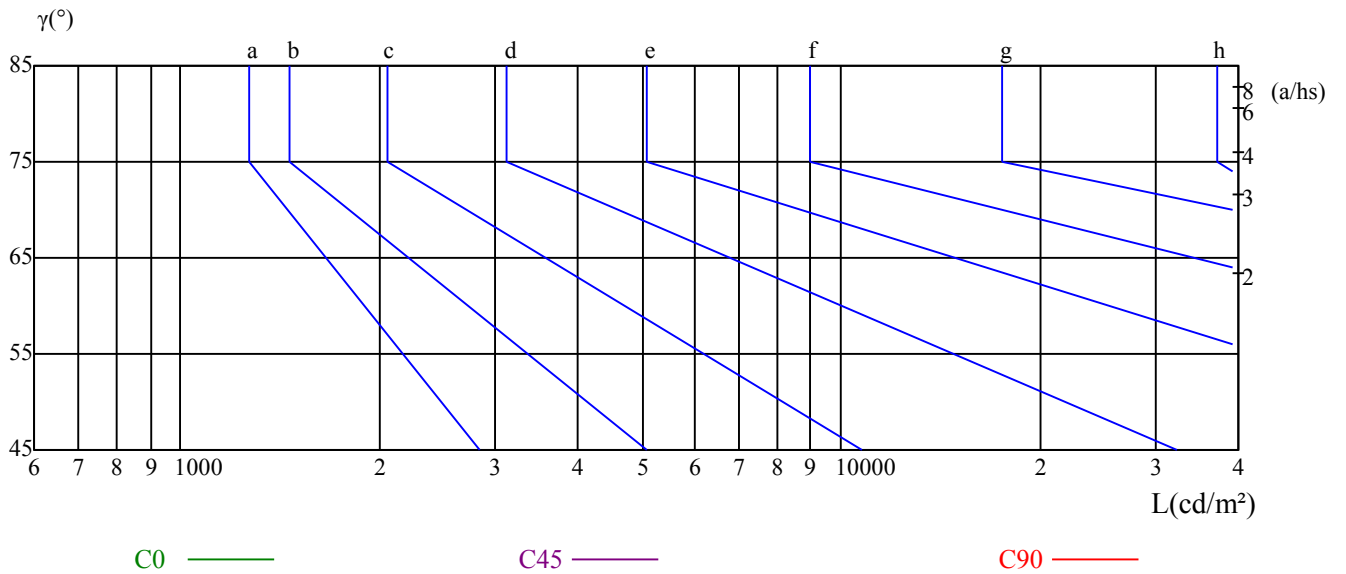
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

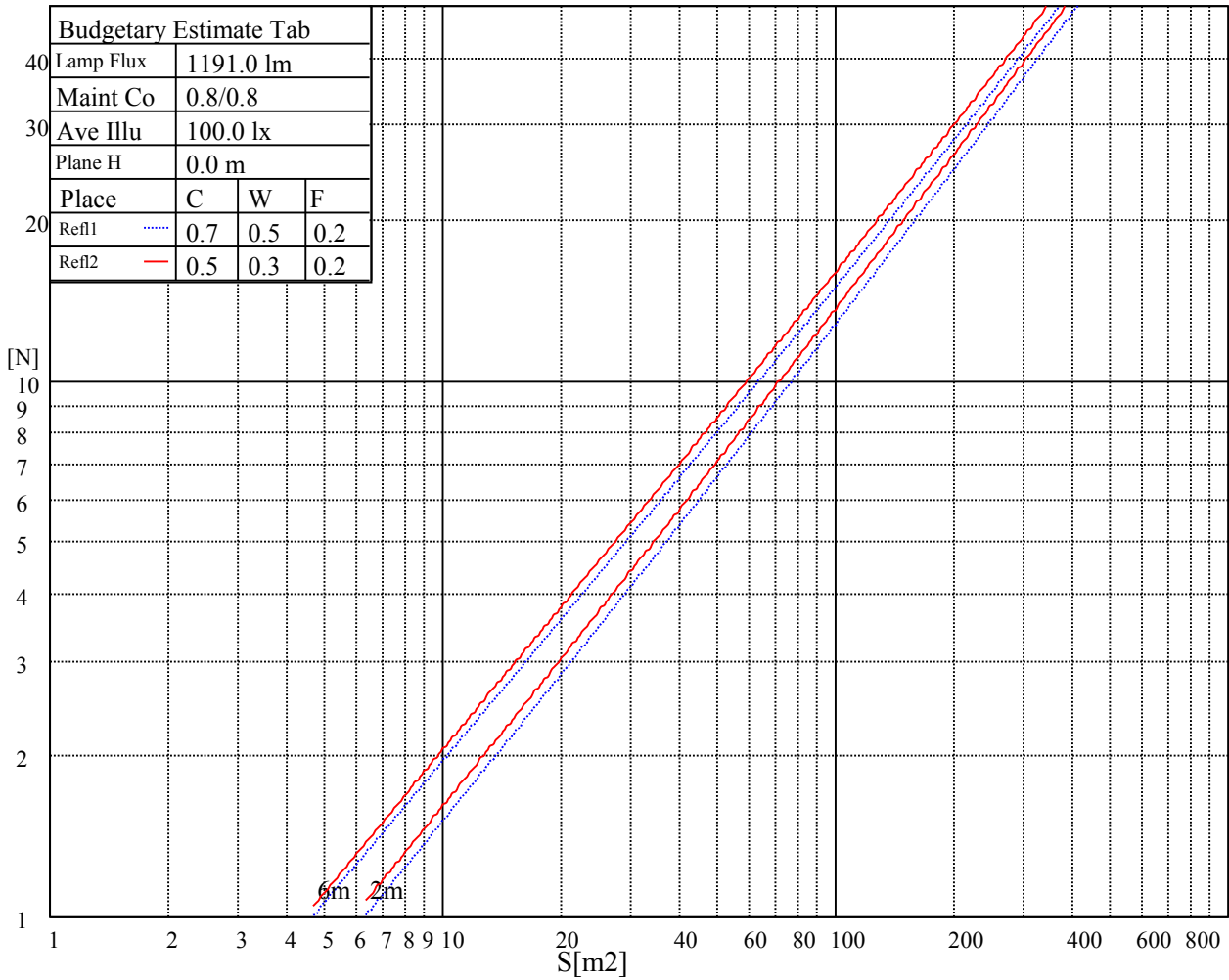
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

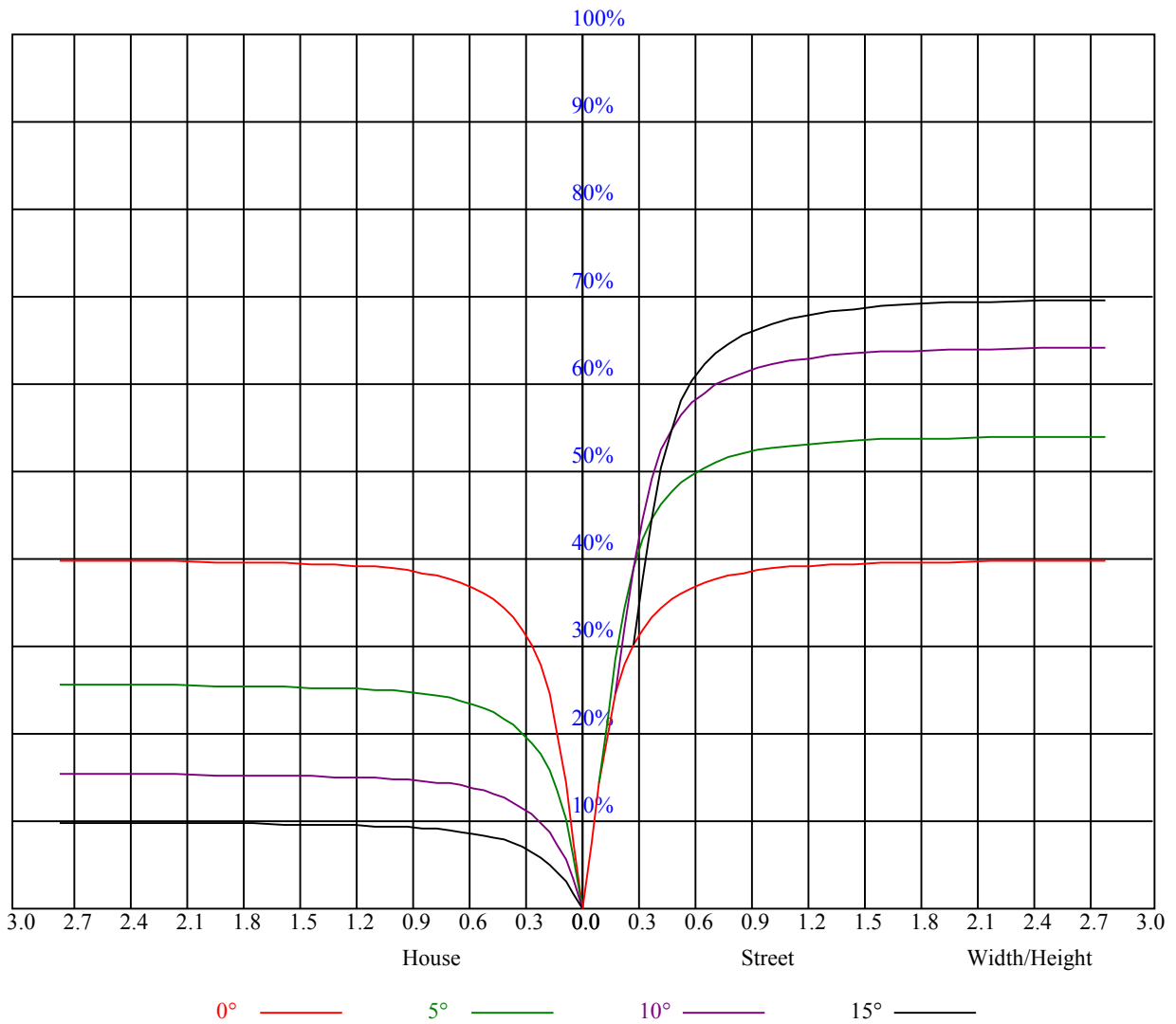
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.98	0.98	0.98	0.96	0.96	0.96	0.91	0.91	0.91	0.87	0.87	0.87	0.84	0.84	0.84	0.82
1	0.89	0.86	0.84	0.87	0.84	0.82	0.83	0.81	0.80	0.80	0.79	0.77	0.77	0.76	0.75	0.73
2	0.84	0.81	0.78	0.83	0.79	0.77	0.80	0.77	0.75	0.77	0.75	0.73	0.75	0.73	0.72	0.71
3	0.80	0.76	0.73	0.79	0.76	0.73	0.77	0.74	0.72	0.75	0.72	0.70	0.73	0.71	0.69	0.68
4	0.77	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.71	0.69	0.67	0.66
5	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.69	0.67	0.65	0.64
6	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
7	0.69	0.65	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.64	0.62	0.61
8	0.67	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.65	0.62	0.60	0.59
9	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.63	0.61	0.59	0.58
10	0.64	0.60	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.62	0.59	0.58	0.57



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	5737.43	5248.53	3261.54	1257.49	531.84	321.53	204.31	130.65	89.80
45.0	5801.84	5215.49	3039.11	1115.44	479.54	295.65	190.83	123.22	87.32
90.0	5834.88	4708.97	2323.93	805.64	406.92	255.41	166.55	111.60	77.57
135.0	5820.01	4702.37	2469.28	903.48	415.13	278.03	172.22	112.65	77.74
180.0	5737.43	4079.13	1867.51	655.78	348.56	229.97	149.04	98.94	65.96
225.0	5801.84	4283.39	1946.79	713.37	371.58	234.21	157.02	103.62	68.71
270.0	5834.88	4775.59	2535.90	894.12	444.31	283.54	175.80	115.89	80.16
315.0	5820.01	4782.20	2452.76	873.91	441.72	276.05	178.11	113.97	79.61
360.0	5737.43	5248.53	3261.54	1257.49	531.84	321.53	204.31	130.65	89.80
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	58.19	37.05	23.07	15.09	9.58	8.04	7.05	6.06	4.96
45.0	54.40	34.52	22.08	14.09	9.25	7.93	6.94	5.95	4.90
90.0	47.29	30.72	19.05	12.33	8.81	7.65	6.61	5.62	4.62
135.0	47.40	31.00	19.43	12.55	8.97	7.71	6.72	5.73	4.57
180.0	41.57	26.87	16.90	11.23	8.42	7.38	6.44	5.40	4.40
225.0	42.23	27.75	17.56	11.34	8.42	7.32	6.33	5.40	4.46
270.0	49.61	33.09	20.26	12.94	8.92	7.71	6.66	5.62	4.57
315.0	49.77	31.55	20.21	12.83	8.86	7.71	6.72	5.67	4.68
360.0	58.19	37.05	23.07	15.09	9.58	8.04	7.05	6.06	4.96
C/γ(°)	90.0								
0.0	4.02								
45.0	3.96								
90.0	3.91								
135.0	3.91								
180.0	3.91								
225.0	3.96								
270.0	3.91								
315.0	3.91								
360.0	4.02								