



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

LumCAT: LN01D04536DA-N

Luminaire: 97.70.234.00

Report No: 210104-B008

Test No: 210104-C008

LampCAT: BRIDGELUX V10 LES10.2

Lamp flux(lm): 1791.0

Number of Lamps: 1

Length(mm): 92

Phm Type: C

Voltage(V): 34.6100

Current(A): 0.3800

Power (W): 13.1510

PF: 1.0000

Ballast type: DC

Width(mm): 92

Height(mm): 50

Photometric Results

Lumens(lm): 1644.93

Efficiency(%): 91.84%

Lumens(lm)/Power(W): 125.08

Central intensity(cd): 3183.750

Maximum intensity(cd): 3183.750

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=66.0

[C90/270]Total=66.0

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(%): 91.84%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 96.817%

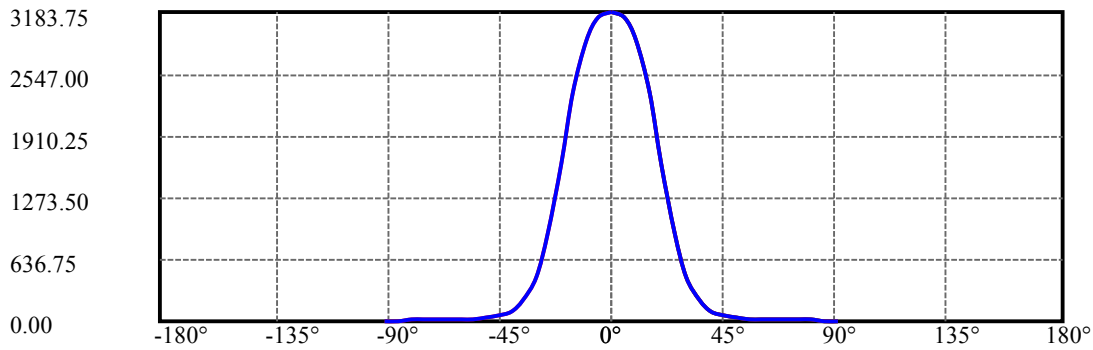
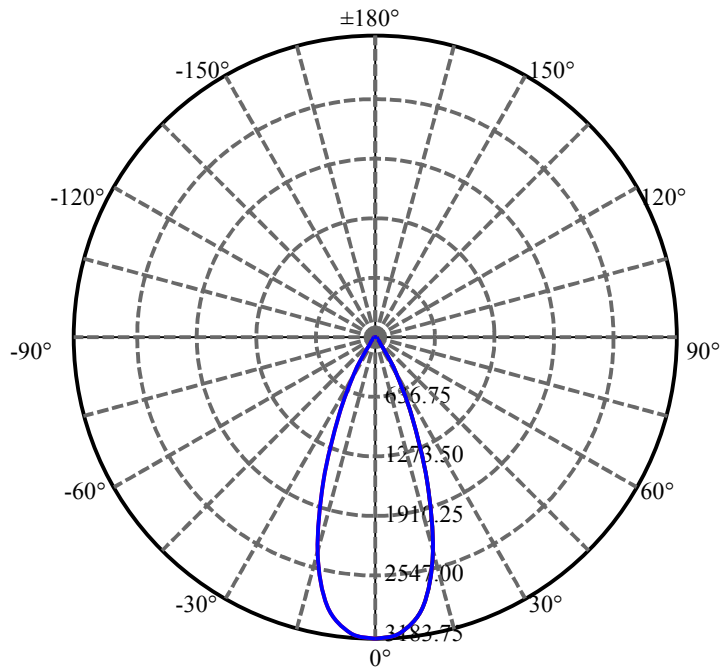
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3183.750	0.000	0	.000%	.000%
5.0	3125.602	75.427	75.427	4.211%	4.585%
10.0	2892.797	215.297	290.724	12.021%	17.674%
15.0	2352.164	311.128	601.851	17.372%	36.588%
20.0	1617.188	327.130	928.981	18.265%	56.475%
25.0	906.532	264.692	1193.673	14.779%	72.567%
30.0	456.511	172.494	1366.167	9.631%	83.053%
35.0	225.211	100.388	1466.556	5.605%	89.156%
40.0	102.016	54.595	1521.151	3.048%	92.475%
45.0	56.461	29.343	1550.494	1.638%	94.259%
50.0	36.253	18.734	1569.229	1.046%	95.398%
55.0	24.736	13.261	1582.49	.740%	96.204%
60.0	18.858	10.077	1592.566	.563%	96.817%
65.0	15.954	8.463	1601.029	.473%	97.331%
70.0	18.823	8.806	1609.835	.492%	97.866%
75.0	23.618	11.093	1620.928	.619%	98.541%
80.0	19.737	11.601	1632.528	.648%	99.246%
85.0	9.190	7.860	1640.389	.439%	99.724%
90.0	7.404	4.543	1644.932	.254%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1366.17	76.28%	83.05%
0-40	1521.15	84.93%	92.48%
0-60	1592.57	88.92%	96.82%
0-90	1640.39	91.59%	99.72%
0-120	1640.39	91.59%	99.72%
0-180	1644.93	91.84%	100.00%
60-90	57.90	3.23%	3.52%
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%
0-28.54	1315.95	73.48%	80.00%

ZONAL LUMEN SUMMARY

0-10	290.72
10-20	638.26
20-30	437.19
30-40	154.98
40-50	48.08
50-60	23.34
60-70	17.27
70-80	22.69
80-90	7.86
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: —————

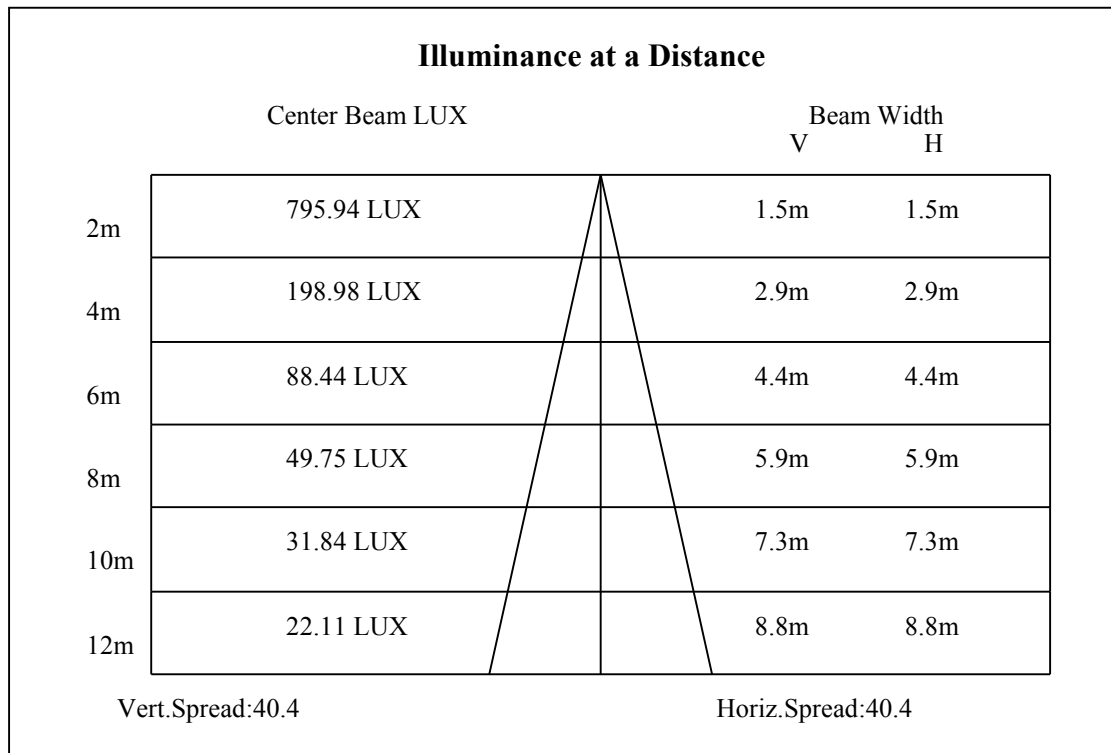
C90/C270: —————

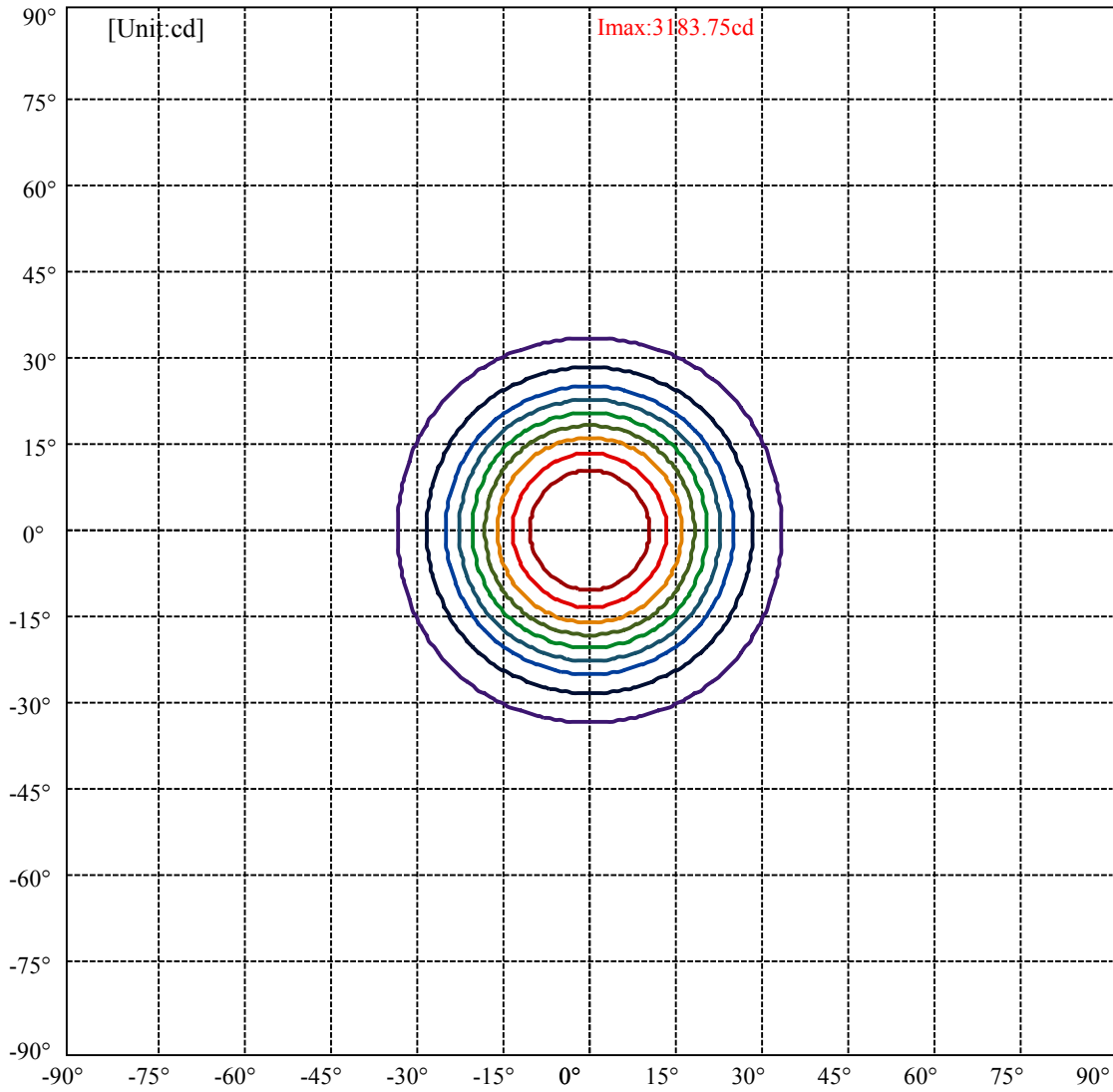
Field angle(10%Imax):C0/180Left:33.0 Right:33.0

:C90/270Left:33.0 Right:33.0

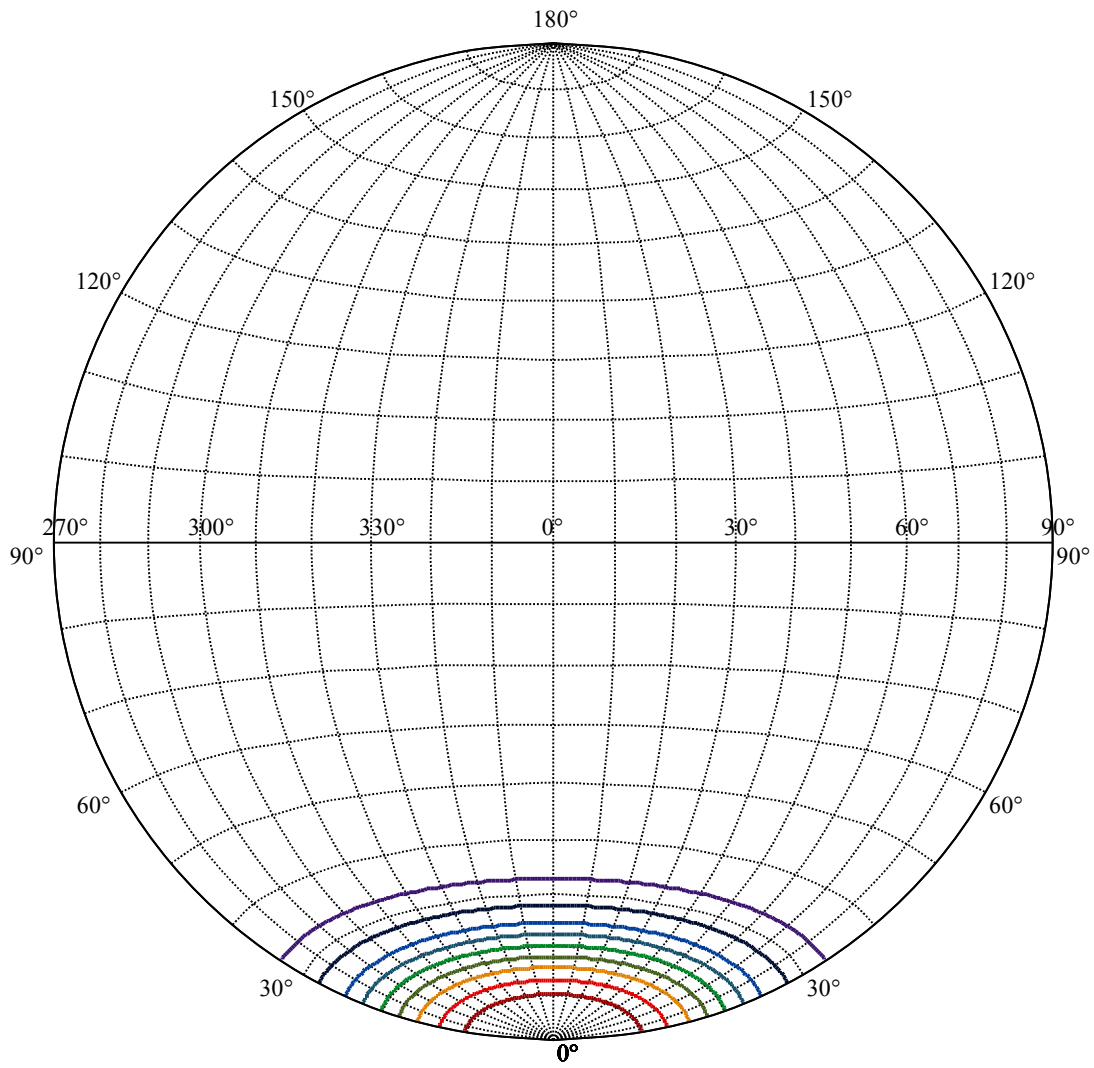
Beam Angle(50%Imax):C0/180Left:20.2 Right:20.2

:C90/270Left:20.2 Right:20.2





(10%Imax) 318.375	—
(20%Imax) 636.75	—
(30%Imax) 955.125	—
(40%Imax) 1273.5	—
(50%Imax) 1591.88	—
(60%Imax) 1910.25	—
(70%Imax) 2228.63	—
(80%Imax) 2547	—
(90%Imax) 2865.38	—



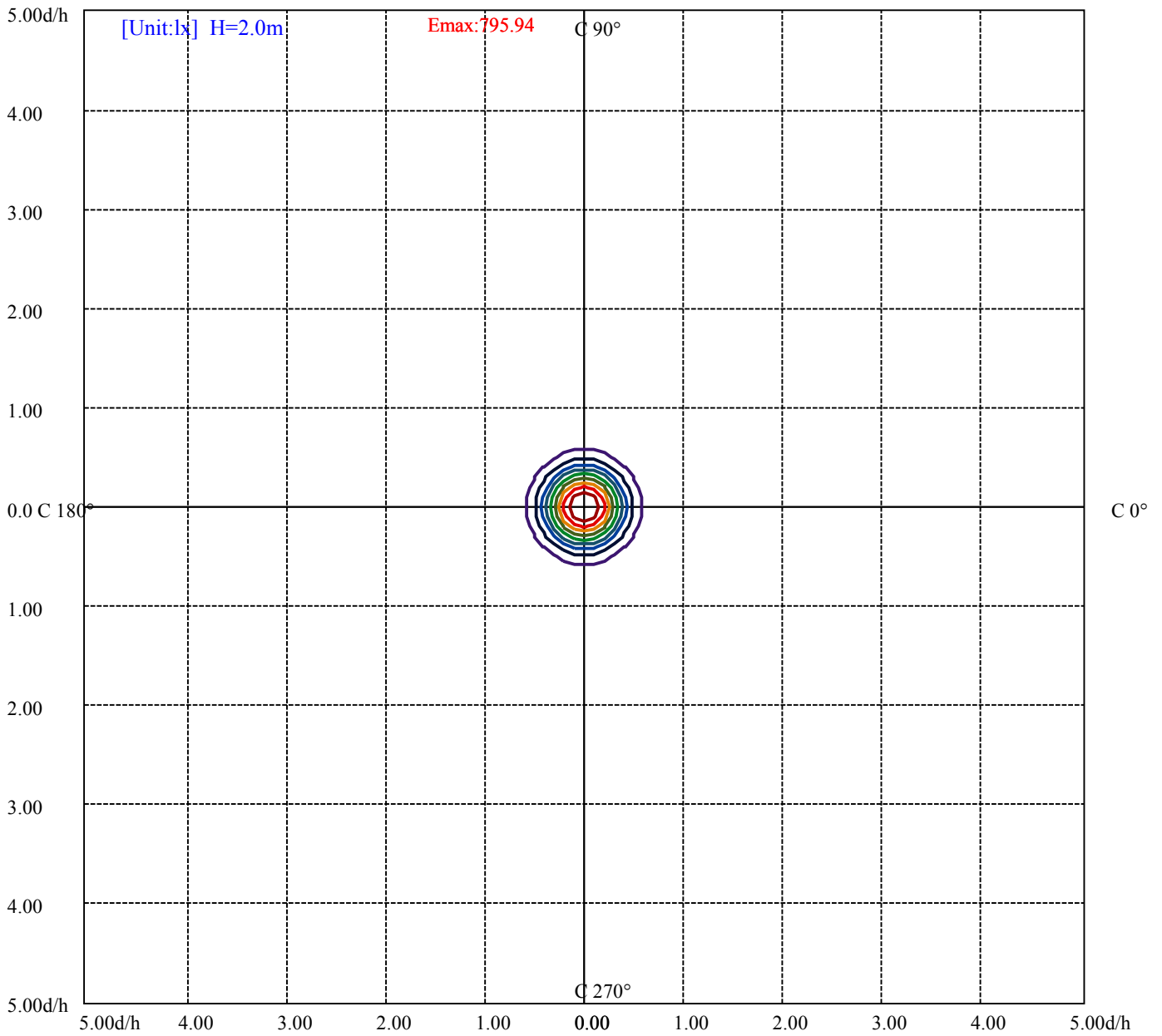
House

[Unit:cd]

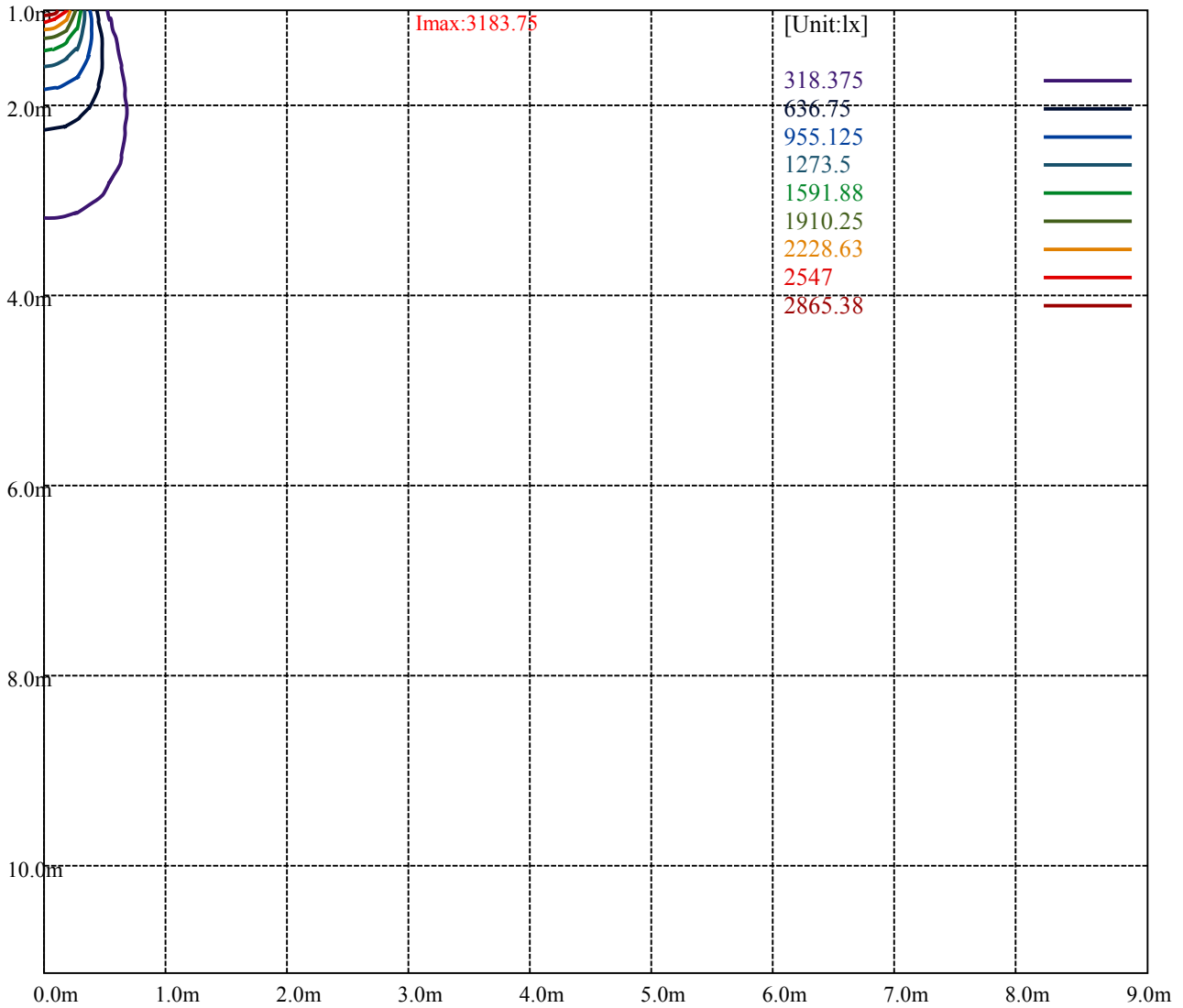
Road

I_{max}:3183.75

(10%I _{max}) 318.375	—
(20%I _{max}) 636.75	—
(30%I _{max}) 955.125	—
(40%I _{max}) 1273.5	—
(50%I _{max}) 1591.88	—
(60%I _{max}) 1910.25	—
(70%I _{max}) 2228.63	—
(80%I _{max}) 2547	—
(90%I _{max}) 2865.38	—



(10%Emax) 79.59375	—
(20%Emax) 159.1875	—
(30%Emax) 238.7813	—
(40%Emax) 318.375	—
(50%Emax) 397.9675	—
(60%Emax) 477.5625	—
(70%Emax) 557.155	—
(80%Emax) 636.75	—
(90%Emax) 716.3425	—



Luminance Table

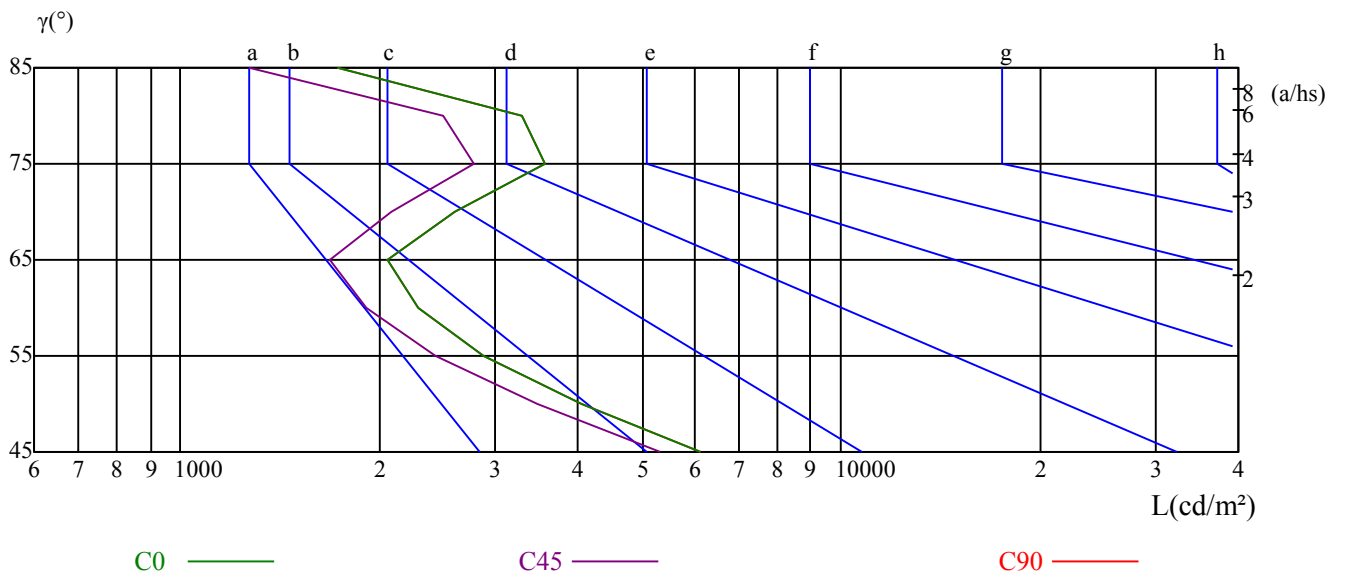
γ	45	50	55	60	65	70	75	80	85
C0	6112	4044	2869	2295	2060	2608	3560	3290	1727
C45	5334	3478	2429	1911	1684	2090	2787	2506	1273
C90	6112	4044	2869	2295	2060	2608	3560	3290	1727

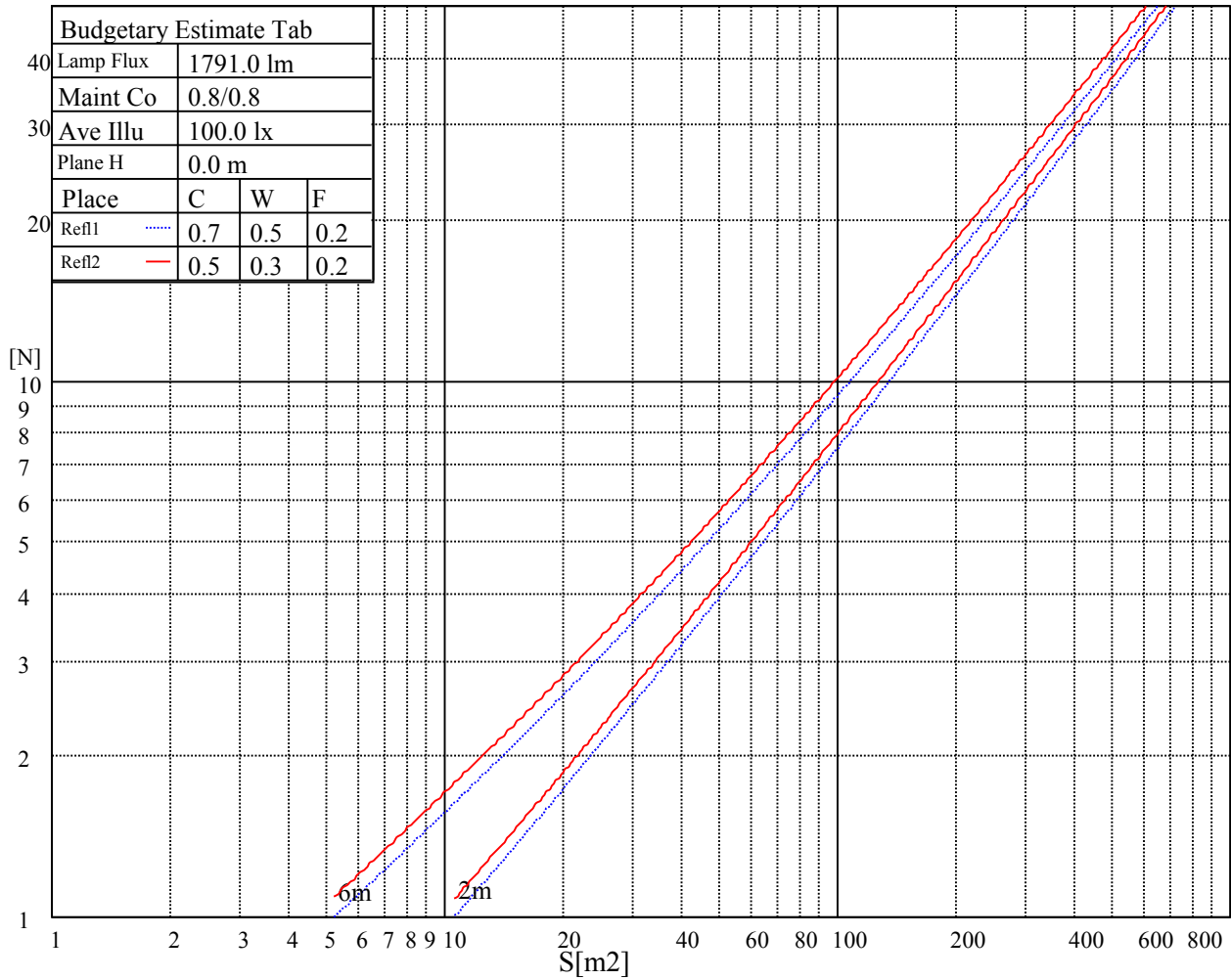
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4460	4460	4460	10781	10781	10781	12458	12458	12458

Glare Table

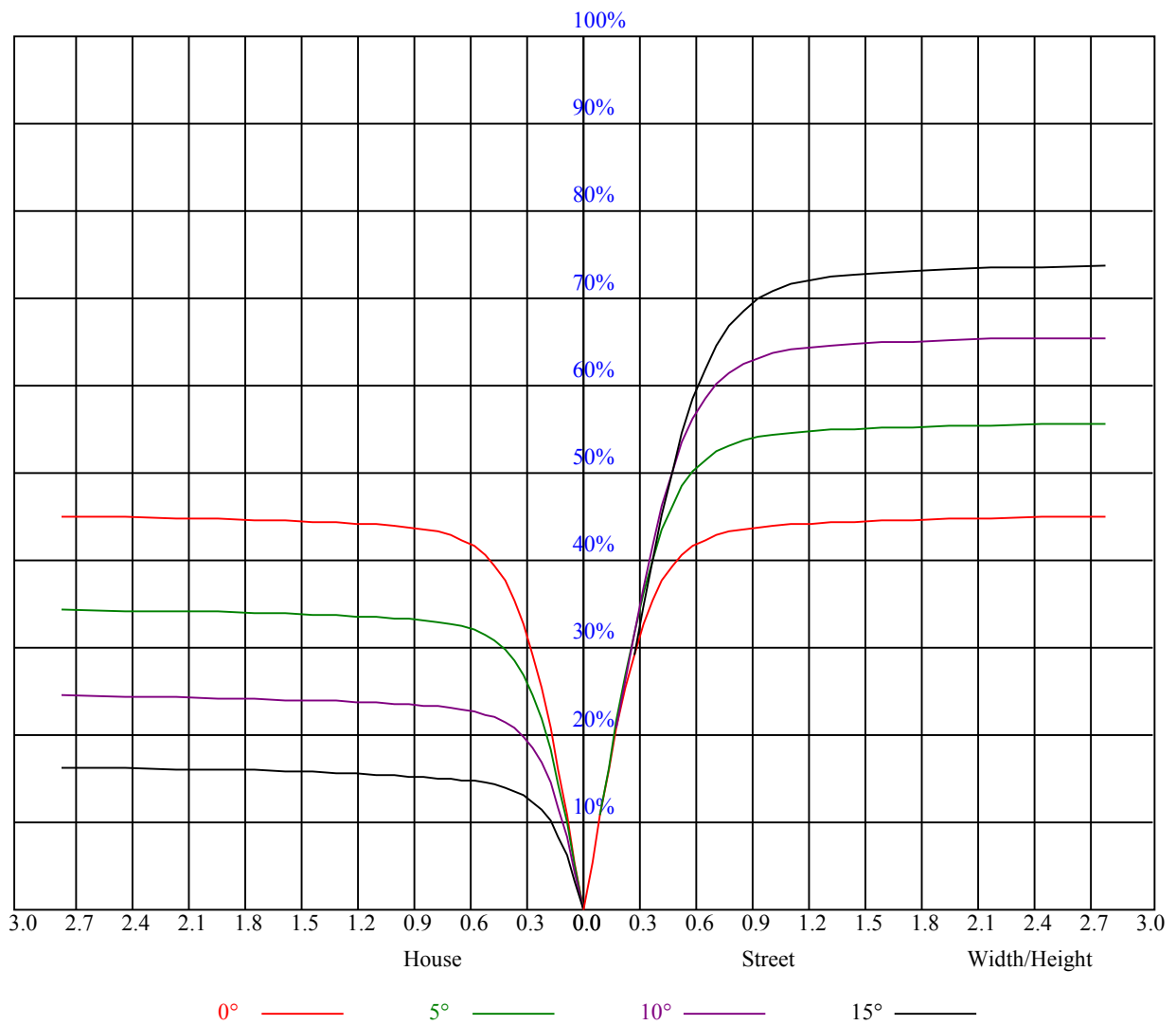
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	0.99	0.97	1.00	0.98	0.96	0.96	0.94	0.93	0.93	0.91	0.90	0.89	0.88	0.88	0.86
2	0.95	0.92	0.89	0.94	0.90	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.85	0.84	0.82	0.81
3	0.90	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.76
4	0.85	0.80	0.76	0.84	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.73	0.72
5	0.80	0.75	0.72	0.79	0.75	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.68
6	0.76	0.71	0.68	0.76	0.71	0.68	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.65
7	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.62
8	0.69	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	0.66	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.57
10	0.64	0.59	0.56	0.63	0.59	0.56	0.63	0.58	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.54



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	3174.75	3120.75	2881.13	2324.81	1576.13	892.13	438.75	195.19	98.16
45.0	3190.50	3163.50	2939.06	2362.50	1674.56	887.63	436.50	233.78	100.80
90.0	3194.44	3167.44	2963.81	2399.06	1658.81	902.42	439.99	204.81	100.69
135.0	3175.31	3170.81	3008.25	2575.69	1864.69	1061.44	581.06	294.75	117.90
180.0	3174.75	3097.13	2868.75	2332.69	1601.44	915.69	455.63	207.79	102.38
225.0	3190.50	3102.75	2836.13	2278.13	1600.88	885.71	440.27	209.93	103.78
270.0	3194.44	3115.69	2876.06	2381.63	1672.88	937.13	485.44	295.31	104.79
315.0	3175.31	3066.75	2769.19	2162.81	1288.13	770.12	374.46	160.14	87.64
360.0	3174.75	3120.75	2881.13	2324.81	1576.13	892.13	438.75	195.19	98.16
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	55.35	35.94	24.58	18.90	15.47	12.99	11.70	10.41	8.49
45.0	56.98	37.24	25.82	19.58	15.98	13.56	11.93	10.58	8.78
90.0	54.62	34.48	23.79	18.11	15.47	25.03	37.86	31.22	9.00
135.0	63.39	39.09	26.04	19.46	15.81	16.76	27.34	26.94	10.24
180.0	57.99	37.13	24.98	19.13	15.47	13.05	11.59	10.29	8.78
225.0	57.43	38.19	25.93	19.41	16.03	13.28	11.76	10.63	9.00
270.0	56.59	36.23	24.58	18.73	16.93	28.52	41.91	35.78	10.41
315.0	49.33	31.73	22.16	17.55	16.48	27.39	34.88	22.05	8.83
360.0	55.35	35.94	24.58	18.90	15.47	12.99	11.70	10.41	8.49
C/γ(°)	90.0								
0.0	7.31								
45.0	7.76								
90.0	7.31								
135.0	7.37								
180.0	7.26								
225.0	7.82								
270.0	7.26								
315.0	7.14								
360.0	7.31								