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## Nata

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LumCAT: LN01D05036DA-N

Luminaire: 97.70.234.00

Report No: 210104-B013

Test No: 210104-C013

LampCAT: BRIDGELUX V10 LES10.2

Lamp flux(lm): 1791.0

Number of Lamps: 1

Length(mm): 92

Phm Type: C

Voltage(V): 34.6300

Current(A): 0.3800

Power (W): 13.1590

PF: 0.0000

Ballast type: DC

Width(mm): 92

Height(mm): 50

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## Photometric Results

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Lumens(lm): 1653.63

Efficiency(%): 92.33%

Lumens(lm)/Power(W): 125.67

Central intensity(cd): 3160.266

Maximum intensity(cd): 3160.266

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=41.5

[C90/270]Total=41.5

Field angle(10%Imax): [C0/180]Total=65.5

[C90/270]Total=65.5

Maximum s/h(1/2): C0\_180=0.68 C90\_270=0.68

Maximum s/h(1/4): C0\_180=0.64 C90\_270=0.64

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.33%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 96.949%

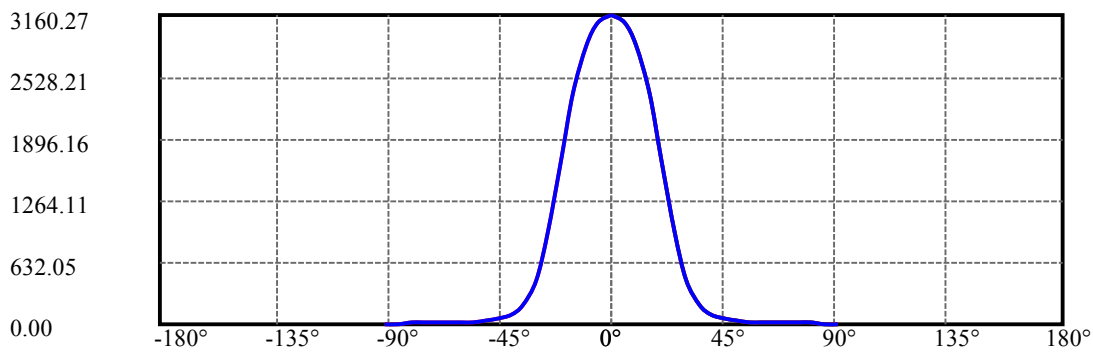
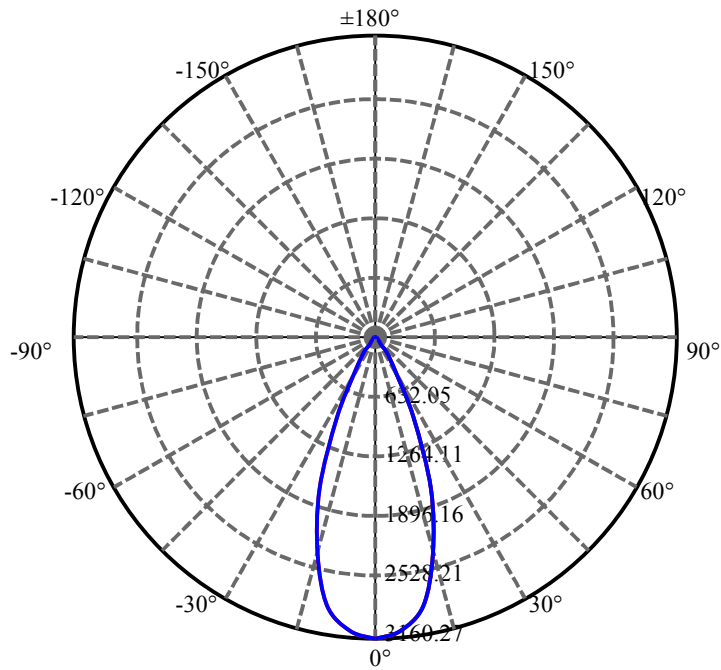
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3160.266	0.000	0	.000%	.000%
5.0	3087.844	74.694	74.694	4.171%	4.517%
10.0	2852.859	212.518	287.212	11.866%	17.369%
15.0	2359.477	309.192	596.404	17.264%	36.066%
20.0	1696.641	334.281	930.685	18.664%	56.281%
25.0	942.539	276.801	1207.487	15.455%	73.020%
30.0	448.158	175.994	1383.48	9.827%	83.663%
35.0	206.086	96.342	1479.822	5.379%	89.489%
40.0	98.438	50.807	1530.63	2.837%	92.562%
45.0	56.960	28.773	1559.403	1.607%	94.302%
50.0	37.786	19.145	1578.548	1.069%	95.459%
55.0	26.276	13.929	1592.477	.778%	96.302%
60.0	20.046	10.707	1603.184	.598%	96.949%
65.0	16.397	8.859	1612.043	.495%	97.485%
70.0	16.467	8.321	1620.365	.465%	97.988%
75.0	21.516	9.928	1630.293	.554%	98.589%
80.0	19.561	10.991	1641.284	.614%	99.253%
85.0	9.197	7.814	1649.098	.436%	99.726%
90.0	7.369	4.536	1653.634	.253%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1383.48	77.25%	83.66%
0-40	1530.63	85.46%	92.56%
0-60	1603.18	89.51%	96.95%
0-90	1649.10	92.08%	99.73%
0-120	1649.10	92.08%	99.73%
0-180	1653.63	92.33%	100.00%
60-90	56.62	3.16%	3.42%
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%
0-28.28	1322.91	73.86%	80.00%

ZONAL LUMEN SUMMARY

0-10	287.21
10-20	643.47
20-30	452.80
30-40	147.15
40-50	47.92
50-60	24.64
60-70	17.18
70-80	20.92
80-90	7.81
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: —————

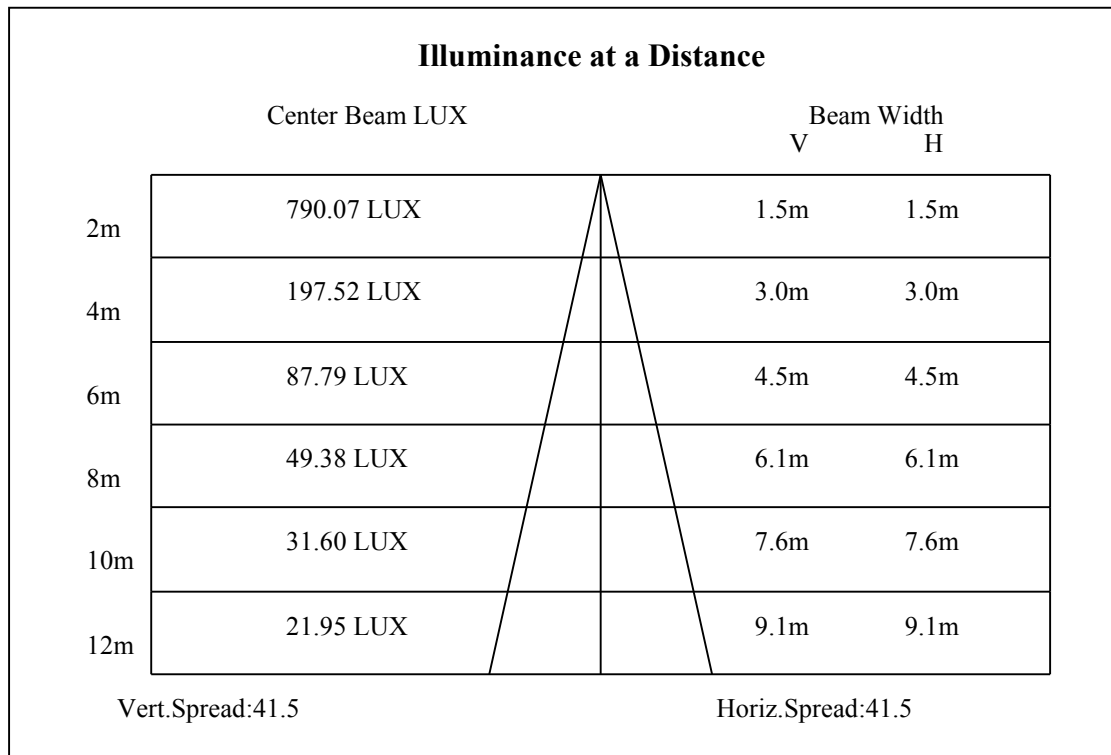
C90/C270: —————

Field angle(10%Imax):C0/180Left:32.7 Right:32.7

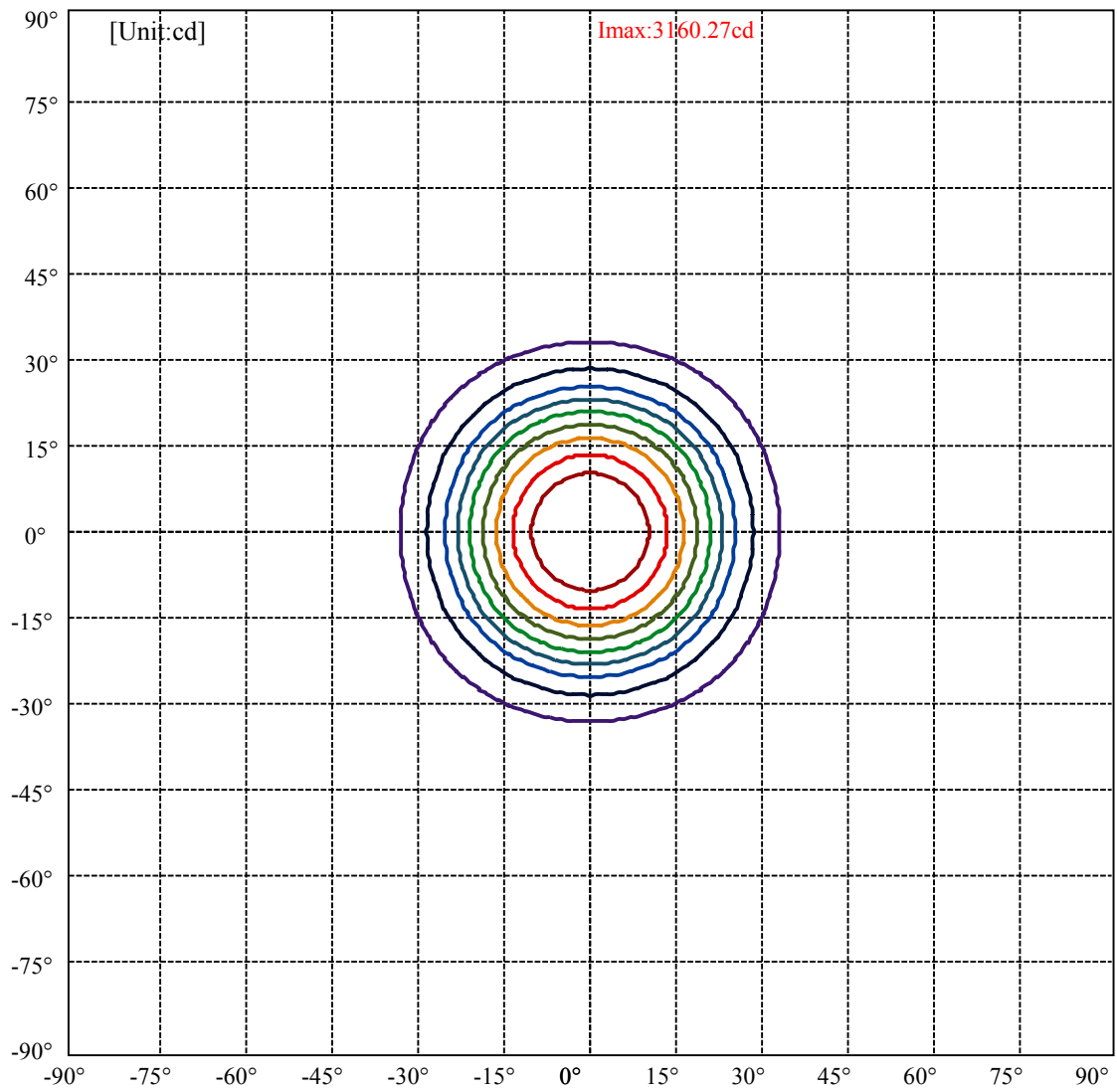
:C90/270Left:32.7 Right:32.7

Beam Angle(50%Imax):C0/180Left:20.8 Right:20.8

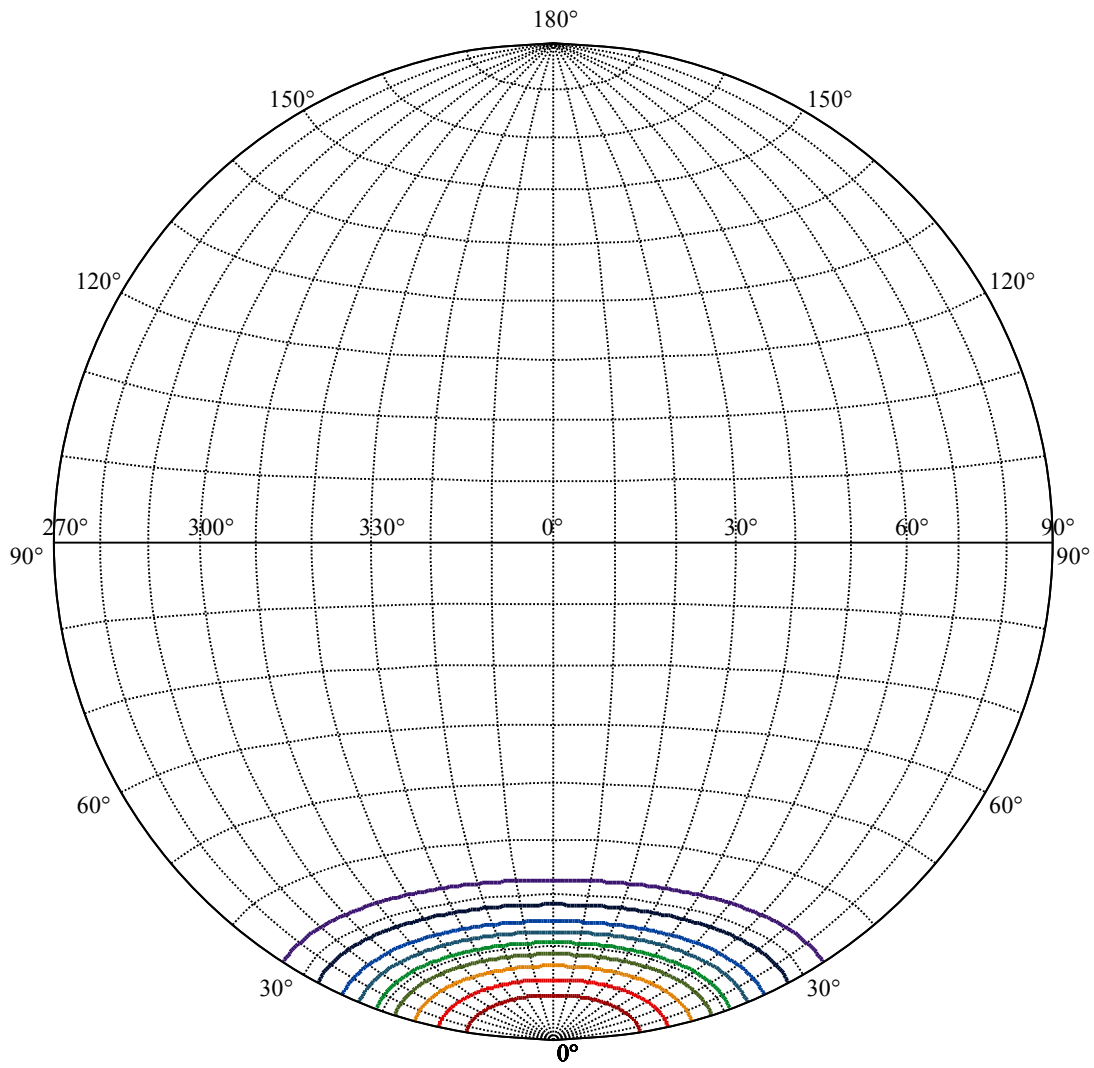
:C90/270Left:20.8 Right:20.8



ISO-Intensity(V-H)



(10%Imax) 316.027	—
(20%Imax) 632.053	—
(30%Imax) 948.08	—
(40%Imax) 1264.11	—
(50%Imax) 1580.13	—
(60%Imax) 1896.16	—
(70%Imax) 2212.19	—
(80%Imax) 2528.21	—
(90%Imax) 2844.24	—



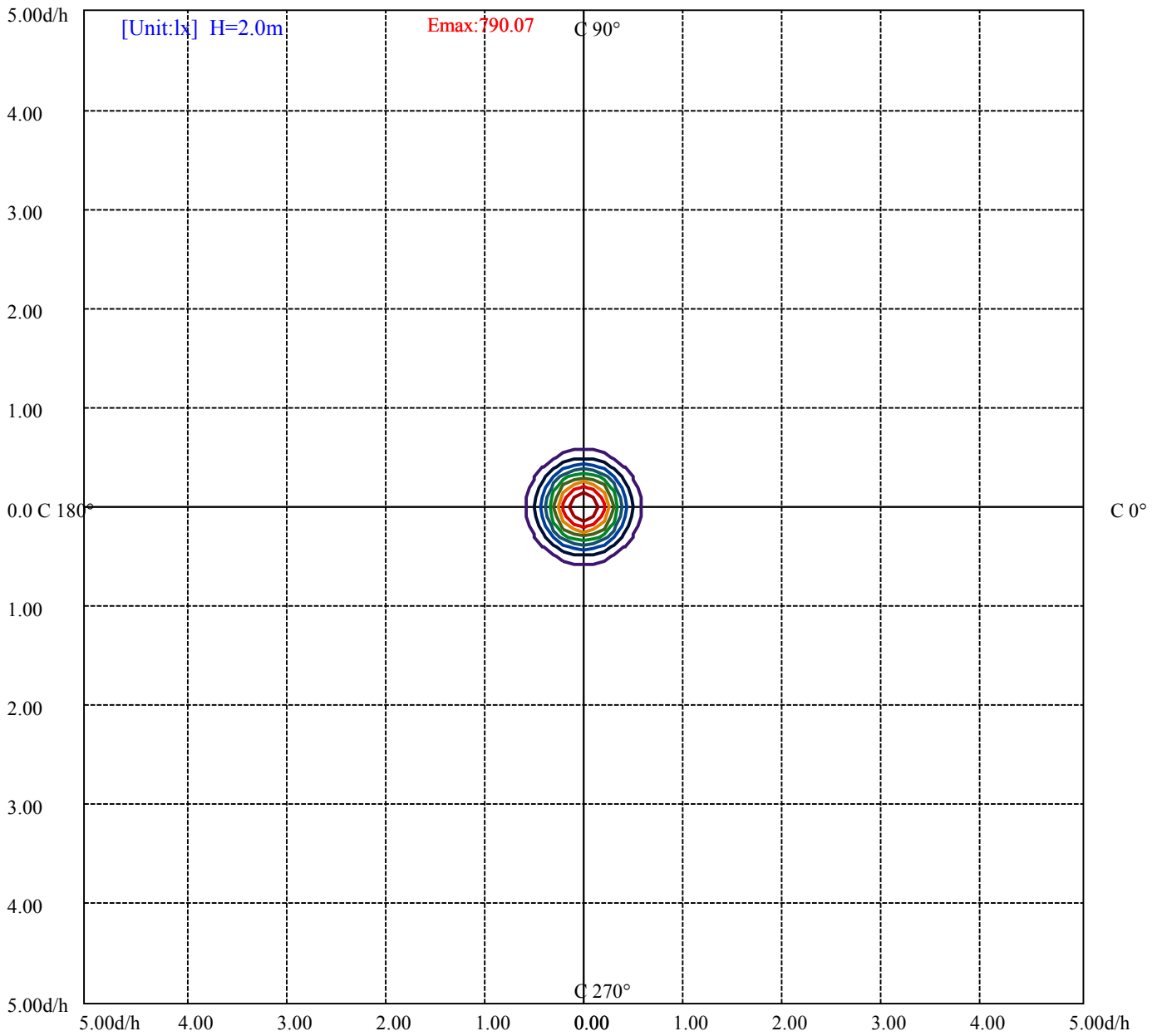
House

[Unit:cd]

Road

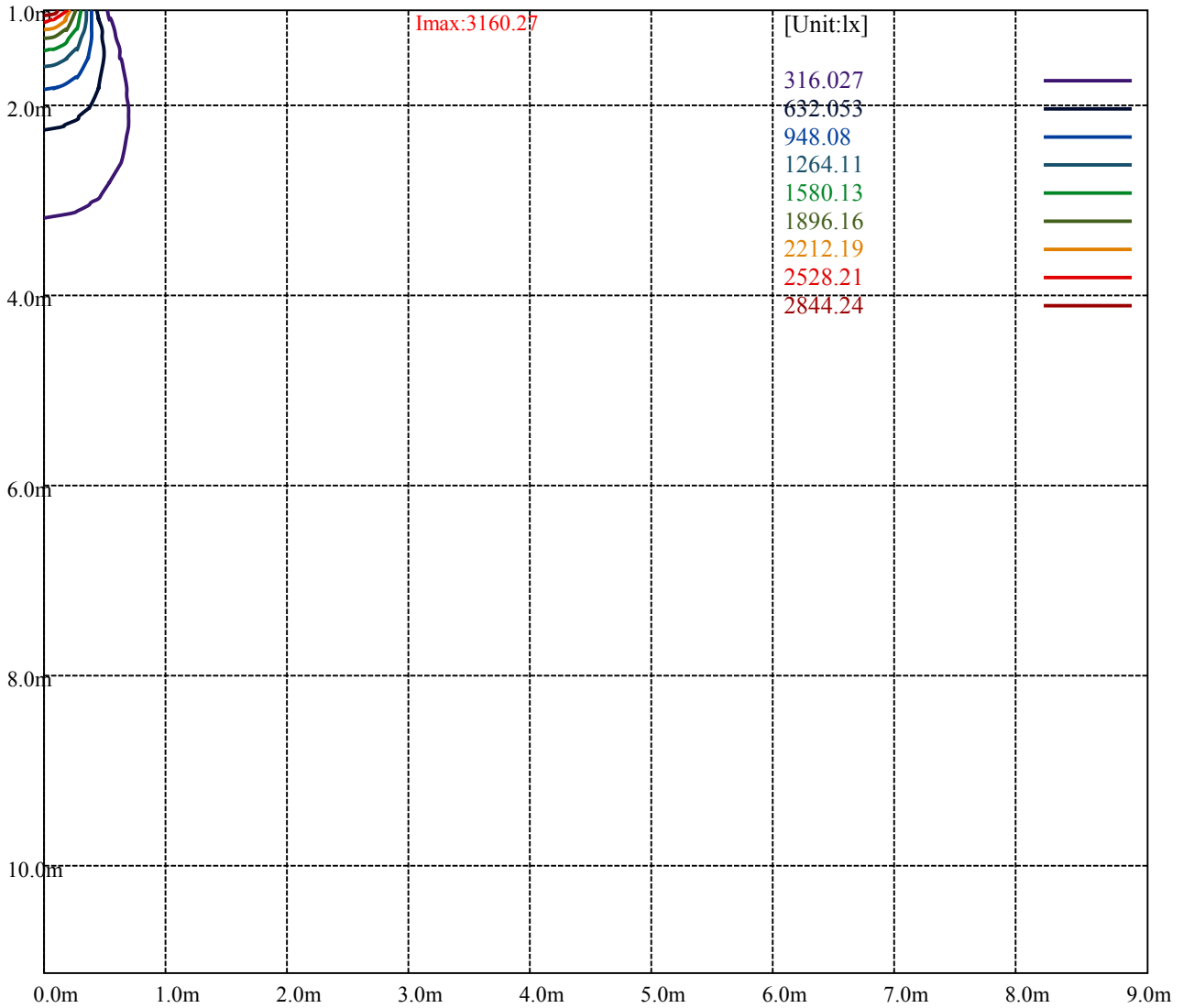
**Imax:3160.27**

(10%Imax) 316.027	—
(20%Imax) 632.053	—
(30%Imax) 948.08	—
(40%Imax) 1264.11	—
(50%Imax) 1580.13	—
(60%Imax) 1896.16	—
(70%Imax) 2212.19	—
(80%Imax) 2528.21	—
(90%Imax) 2844.24	—



(10%Emax) 79.0065	—
(20%Emax) 158.0132	—
(30%Emax) 237.0197	—
(40%Emax) 316.0275	—
(50%Emax) 395.0325	—
(60%Emax) 474.04	—
(70%Emax) 553.045	—
(80%Emax) 632.0525	—
(90%Emax) 711.06	—





Luminance Table

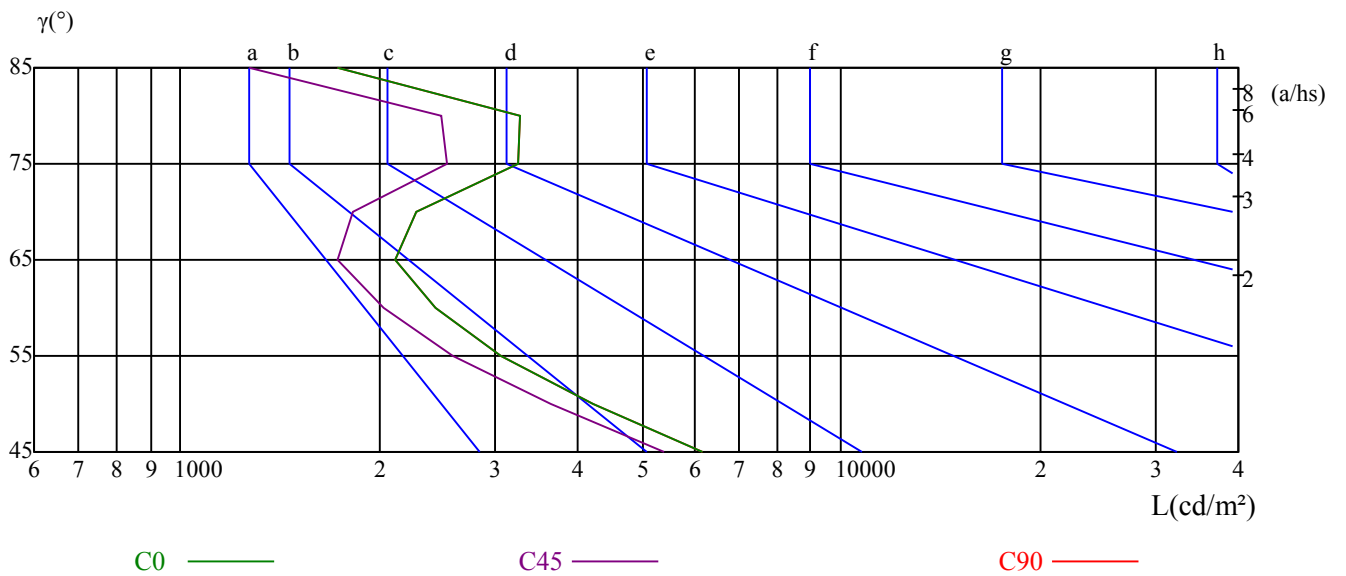
$\gamma$	45	50	55	60	65	70	75	80	85
C0	6166	4215	3047	2440	2117	2282	3243	3260	1729
C45	5381	3625	2580	2032	1731	1828	2539	2484	1274
C90	6166	4215	3047	2440	2117	2282	3243	3260	1729

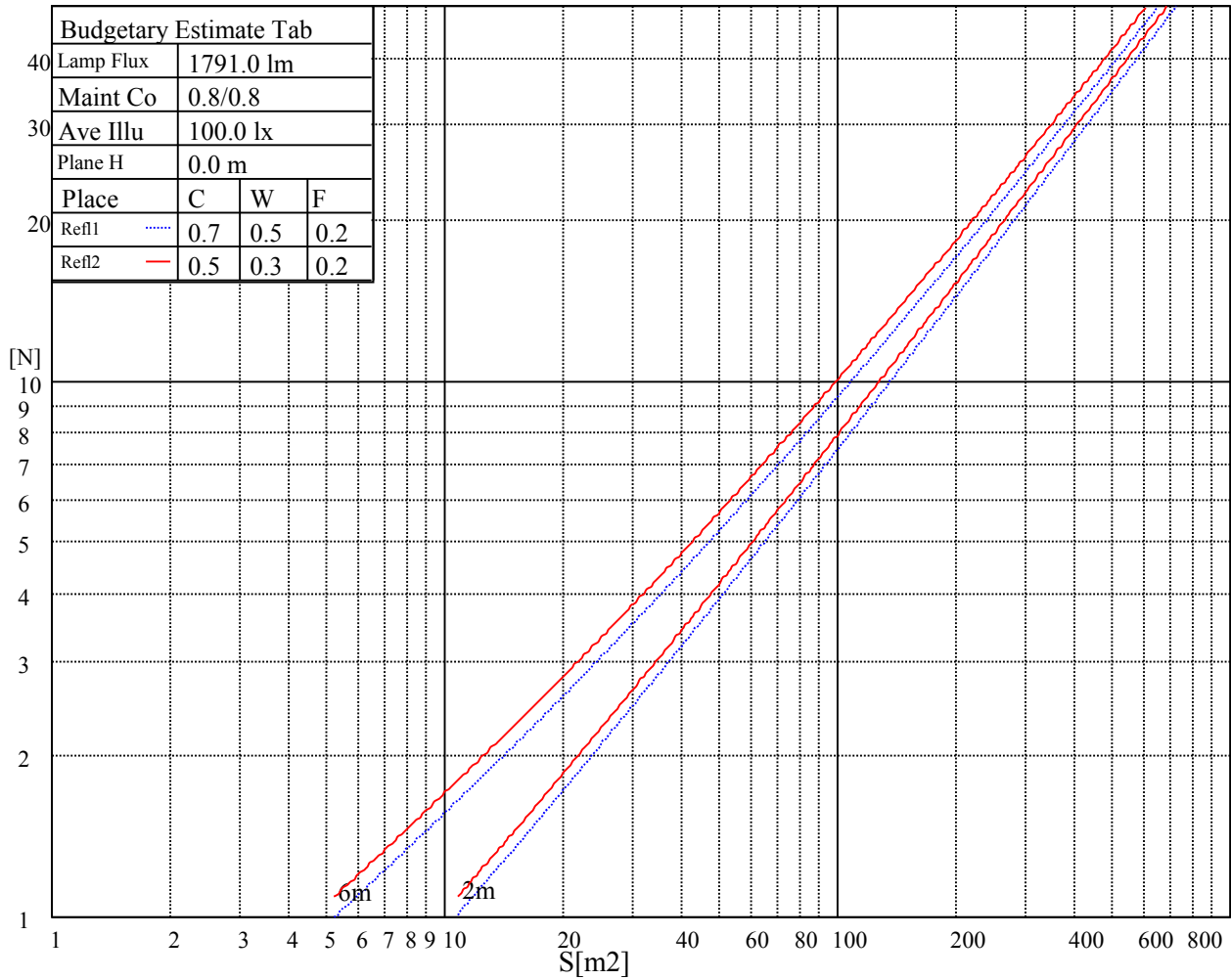
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4584	4584	4584	9822	9822	9822	12467	12467	12467

Glare Table

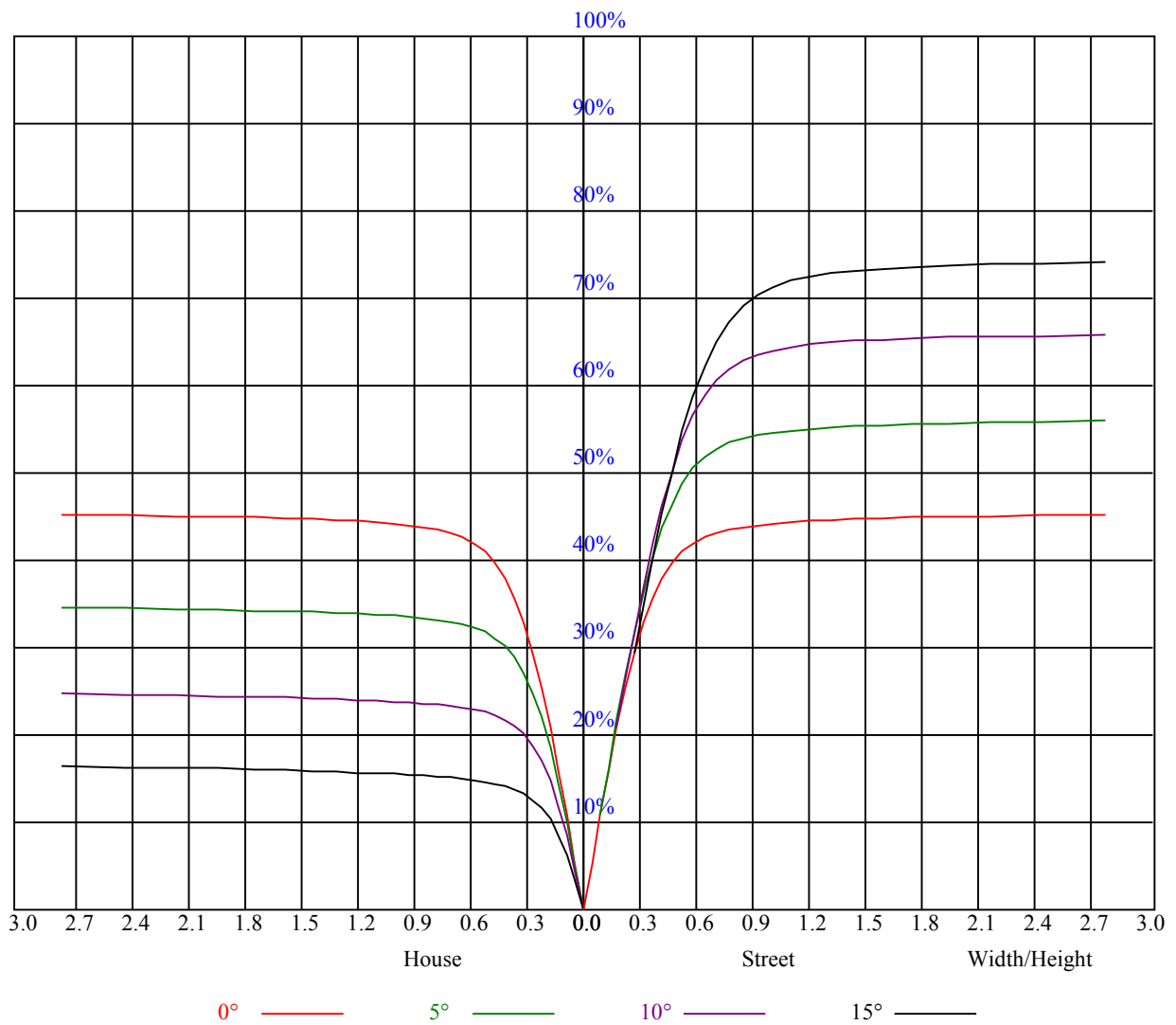
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.10	1.10	1.10	1.07	1.07	1.07	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	1.00	0.98	1.00	0.98	0.96	0.97	0.95	0.93	0.93	0.92	0.91	0.90	0.89	0.88	0.86
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.86	0.89	0.86	0.84	0.86	0.84	0.83	0.81
3	0.90	0.86	0.82	0.89	0.85	0.82	0.87	0.83	0.80	0.84	0.82	0.79	0.82	0.80	0.78	0.77
4	0.85	0.81	0.77	0.84	0.80	0.76	0.82	0.79	0.76	0.80	0.77	0.75	0.79	0.76	0.74	0.73
5	0.81	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.72	0.70	0.69
6	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.65
7	0.73	0.68	0.65	0.73	0.68	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.62
8	0.70	0.65	0.61	0.69	0.65	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.59
9	0.67	0.62	0.59	0.66	0.62	0.59	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.57
10	0.64	0.59	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.62	0.58	0.56	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	3159.00	3051.56	2788.31	2273.06	1667.81	896.06	416.81	191.64	96.86
45.0	3168.00	3093.19	2864.25	2356.31	1702.69	939.38	442.13	230.91	101.98
90.0	3162.94	3103.88	2911.50	2415.94	1710.56	966.32	450.73	192.94	99.11
135.0	3151.13	3149.44	2992.50	2597.06	1943.44	1172.81	563.63	286.31	115.59
180.0	3159.00	3117.94	2871.00	2386.13	1726.88	956.64	466.14	203.29	101.59
225.0	3168.00	3103.88	2864.81	2335.50	1672.31	917.83	427.84	197.83	100.35
270.0	3162.94	3077.44	2843.44	2372.06	1699.31	948.94	461.25	194.29	93.32
315.0	3151.13	3005.44	2687.06	2139.75	1450.13	742.33	356.74	151.48	78.69
360.0	3159.00	3051.56	2788.31	2273.06	1667.81	896.06	416.81	191.64	96.86
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	57.09	37.91	26.72	20.19	16.31	14.18	11.98	10.18	8.61
45.0	59.01	40.11	27.73	21.09	17.10	14.51	12.09	10.35	8.72
90.0	56.14	36.56	25.65	19.58	15.98	18.73	33.53	31.56	9.11
135.0	62.89	40.22	27.79	20.76	16.59	14.57	23.12	27.68	10.29
180.0	58.56	39.60	27.06	20.42	16.59	14.18	11.87	10.13	8.66
225.0	58.16	39.32	27.06	20.48	16.48	14.18	11.98	10.24	8.94
270.0	55.18	35.94	25.03	19.52	16.37	20.42	34.88	34.20	10.13
315.0	48.66	32.63	23.18	18.34	15.75	20.98	32.68	22.16	9.11
360.0	57.09	37.91	26.72	20.19	16.31	14.18	11.98	10.18	8.61
C/γ(°)	90.0								
0.0	7.20								
45.0	7.59								
90.0	7.37								
135.0	7.31								
180.0	7.26								
225.0	7.65								
270.0	7.31								
315.0	7.26								
360.0	7.20								