
91275

Client:

LumCAT: /

Luminaire: /

Report No:

Test No:

LampCAT: 91275

Lamp flux(lm): -1.0

Number of Lamps: 4

Length(mm): 1200

Phm Type: C

Voltage(V):

Current(A):

Power (W): 48.1000

PF:

Ballast type:

Width(mm): 320

Height(mm): 100

Photometric Results

Lumens(lm): 6300.20

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 130.98

Central intensity(cd): 2520.042

Maximum intensity(cd): 2520.042

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=90.7

[C90/270]Total=108.1

Field angle(10%Imax): [C0/180]Total=147.7

[C90/270]Total=163.4

Maximum s/h(1/2): C0_180=1.11 C90_270=1.24

Maximum s/h(1/4): C0_180=1.25 C90_270=1.37

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 1.46%

Down flux rate of LUM(%): 98.54%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 79.909%

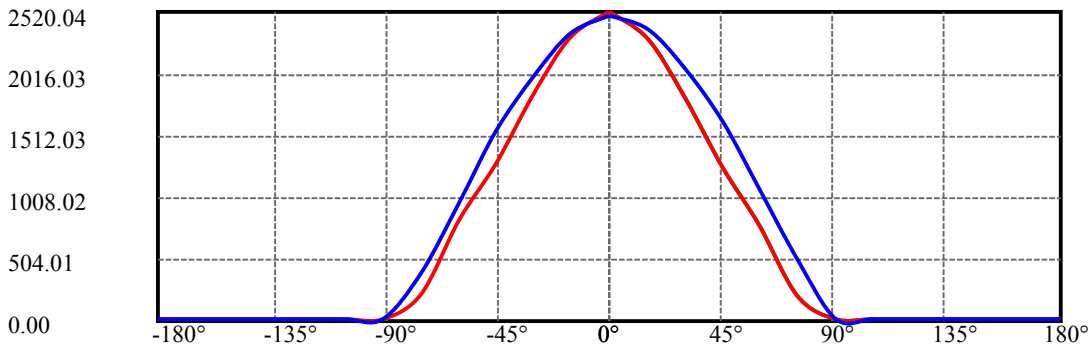
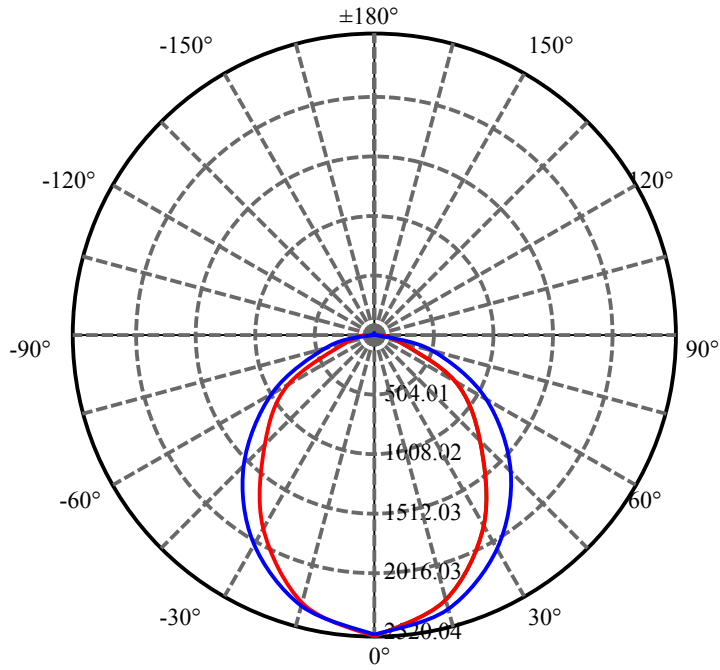
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2506.297	0.000	0	.000%	.000%
15.0	2316.076	516.222	516.222	.000%	8.194%
30.0	1959.513	1341.879	1858.1	.000%	29.493%
45.0	1417.720	1686.109	3544.209	.000%	56.255%
60.0	872.673	1490.233	5034.443	.000%	79.909%
75.0	318.411	902.475	5936.918	.000%	94.234%
90.0	15.125	271.199	6208.117	.000%	98.538%
105.0	12.179	22.201	6230.317	.000%	98.891%
120.0	13.410	19.388	6249.705	.000%	99.198%
135.0	15.280	18.667	6268.372	.000%	99.495%
150.0	17.324	16.278	6284.65	.000%	99.753%
165.0	19.028	11.409	6296.059	.000%	99.934%
180.0	19.703	4.146	6300.205	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1858.10	N.A.	29.49%
0-40	1858.10	N.A.	29.49%
0-60	5034.44	N.A.	79.91%
0-90	6208.12	N.A.	98.54%
0-120	6249.71	N.A.	99.20%
0-180	6300.20	N.A.	100.00%
60-90	2663.91	N.A.	42.28%
90-120	312.79	N.A.	4.96%
90-130	312.79	N.A.	4.96%
90-150	347.73	N.A.	5.52%
90-180	359.14	N.A.	5.70%
0-60.10	5040.16	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	0.00
10-20	516.22
20-30	1341.88
30-40	0.00
40-50	1686.11
50-60	1490.23
60-70	0.00
70-80	902.48
80-90	271.20
90-100	0.00
100-110	22.20
110-120	19.39
120-130	0.00
130-140	18.67
140-150	16.28
150-160	0.00
160-170	11.41
170-180	0.00



C0(Max): ———

C0/C180: ———

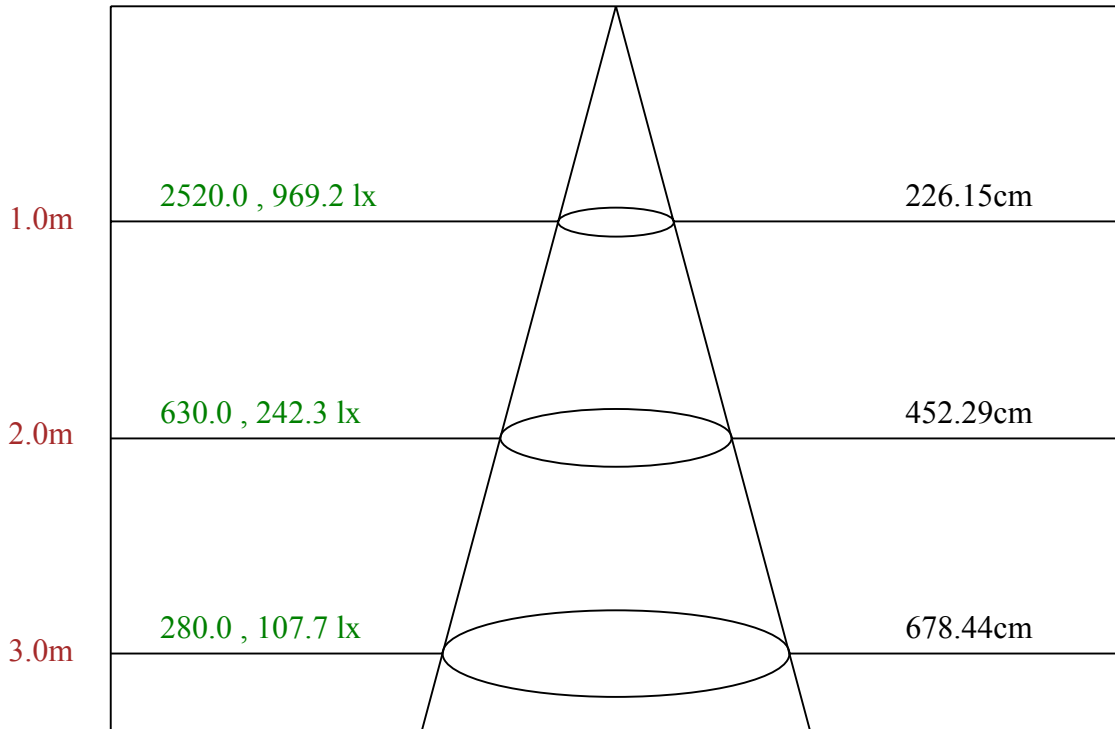
C90/C270: ———

Field angle(10%Imax):C0/180Left:74.0 Right:73.7

:C90/270Left:80.6 Right:82.8

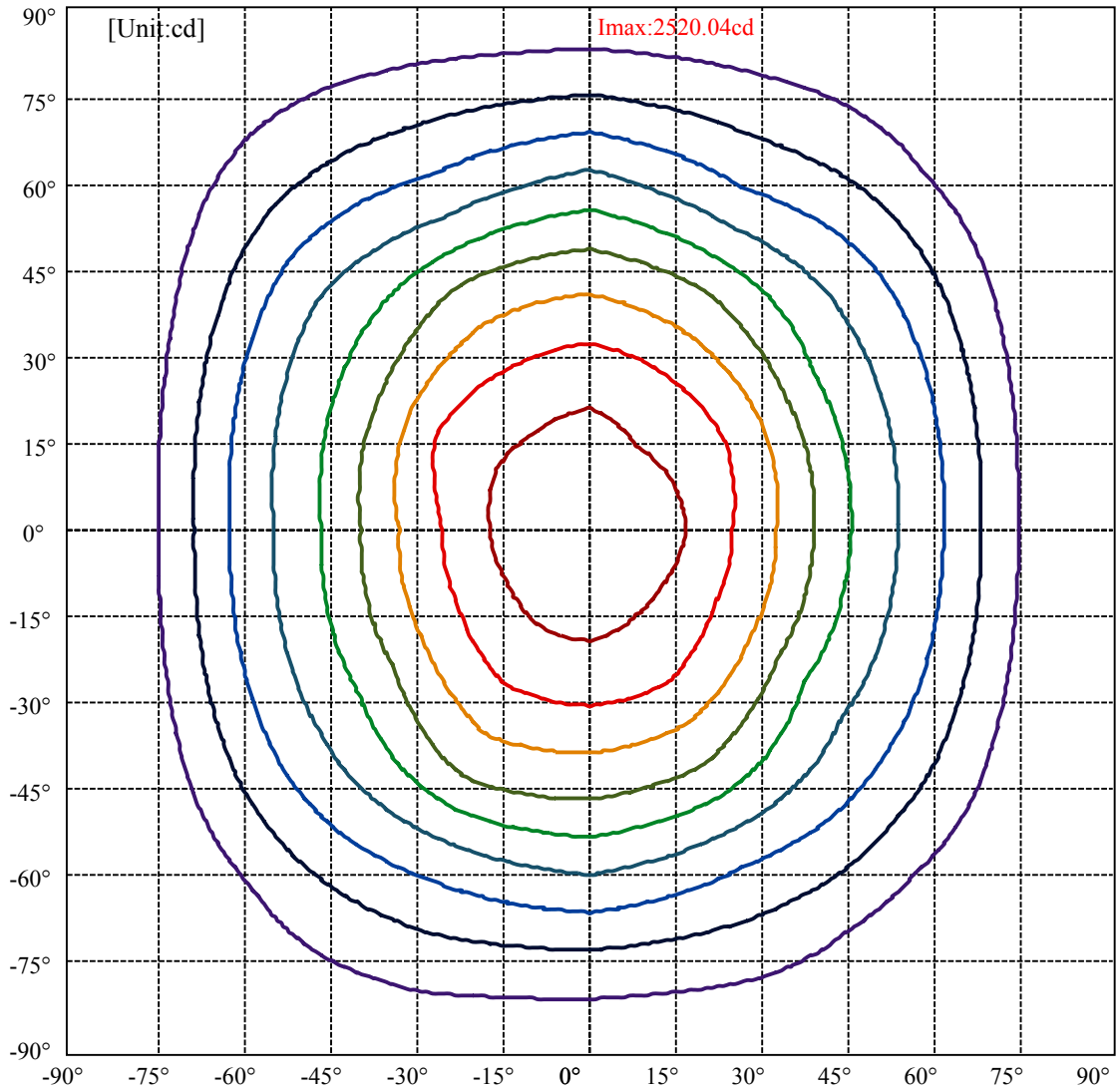
Beam Angle(50%Imax):C0/180Left:45.9 Right:44.8

:C90/270Left:52.8 Right:55.3

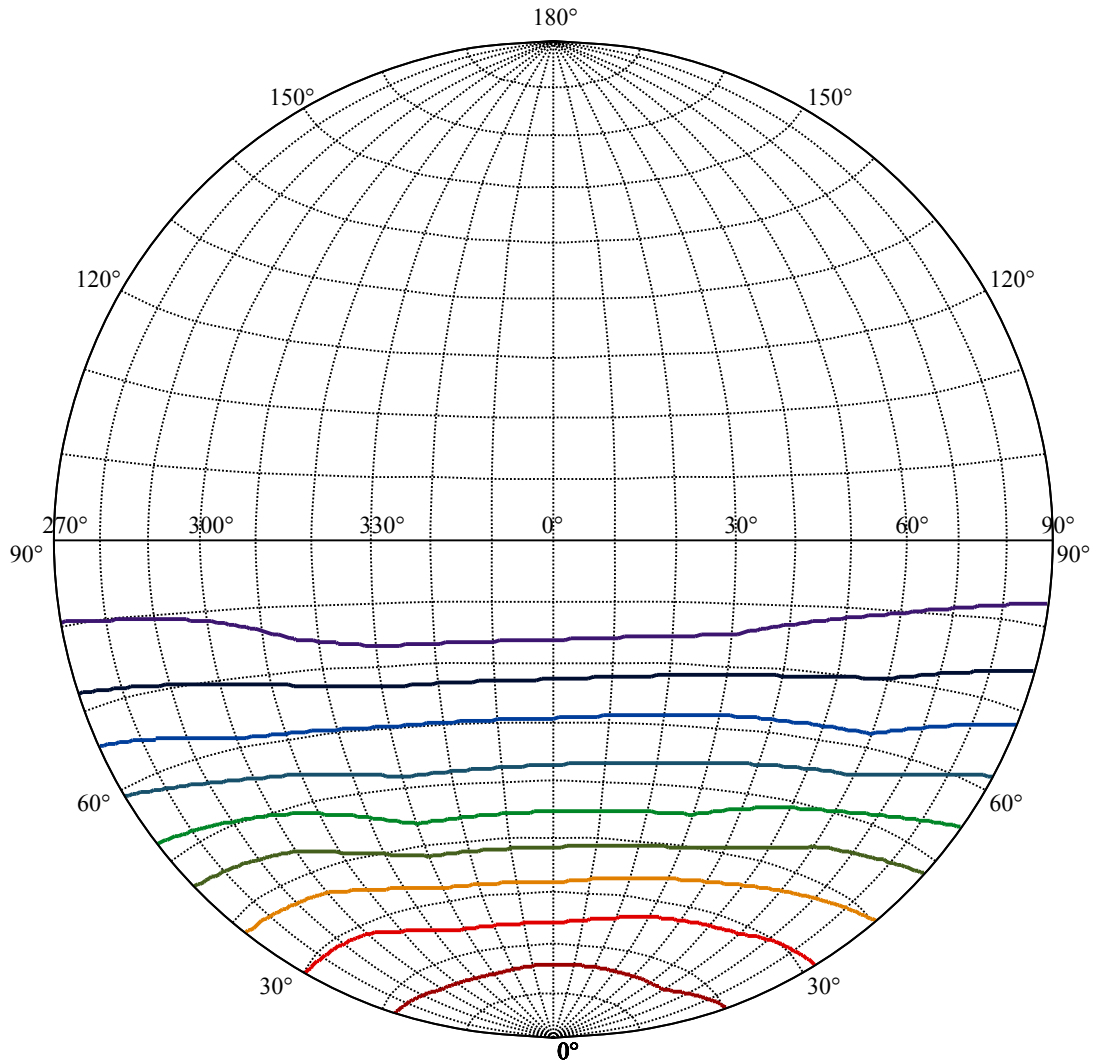


Max , Ave

Beam angle of C0 plane 97.02



(10%Imax) 250.675	—
(20%Imax) 501.35	—
(30%Imax) 752.025	—
(40%Imax) 1002.7	—
(50%Imax) 1253.38	—
(60%Imax) 1504.05	—
(70%Imax) 1754.73	—
(80%Imax) 2005.4	—
(90%Imax) 2256.08	—



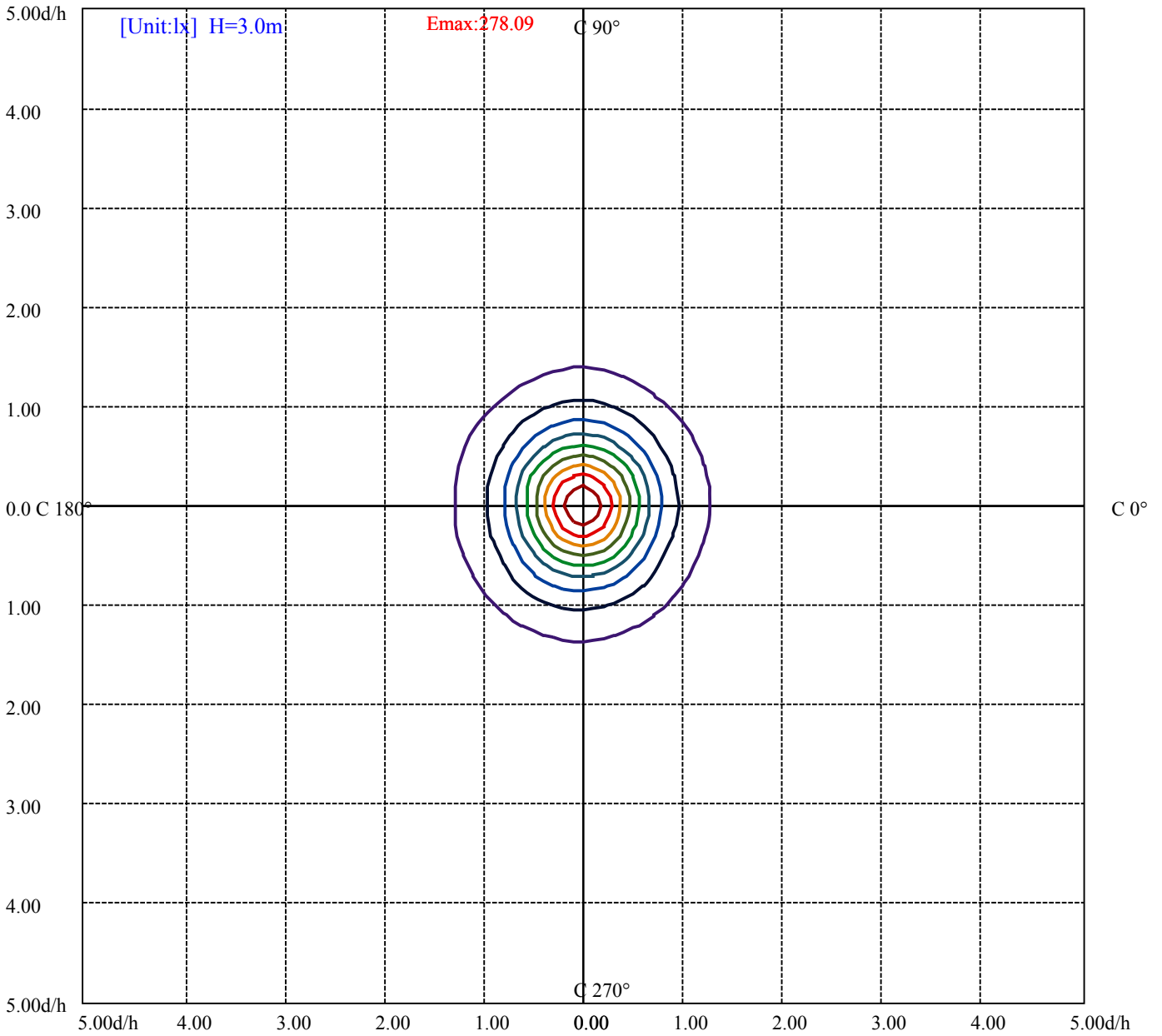
House

[Unit:cd]

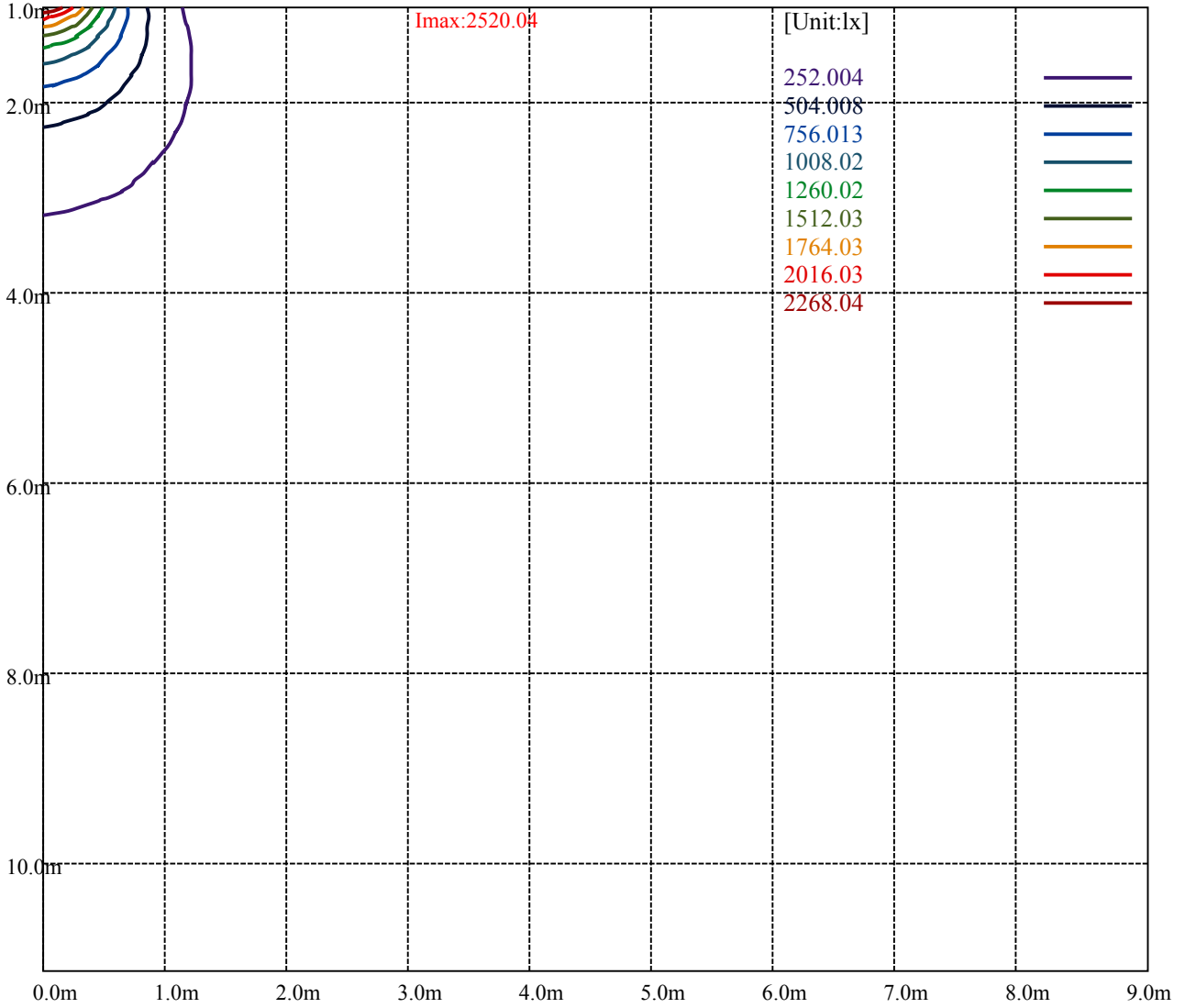
Road

Imax:2520.04

(10%Imax) 252.004	—
(20%Imax) 504.008	—
(30%Imax) 756.013	—
(40%Imax) 1008.02	—
(50%Imax) 1260.02	—
(60%Imax) 1512.03	—
(70%Imax) 1764.03	—
(80%Imax) 2016.03	—
(90%Imax) 2268.04	—



(10%Emax) 27.80867	—
(20%Emax) 55.61733	—
(30%Emax) 83.42589	—
(40%Emax) 111.2344	—
(50%Emax) 139.0433	—
(60%Emax) 166.8522	—
(70%Emax) 194.66	—
(80%Emax) 222.4689	—
(90%Emax) 250.2778	—



Luminance Table

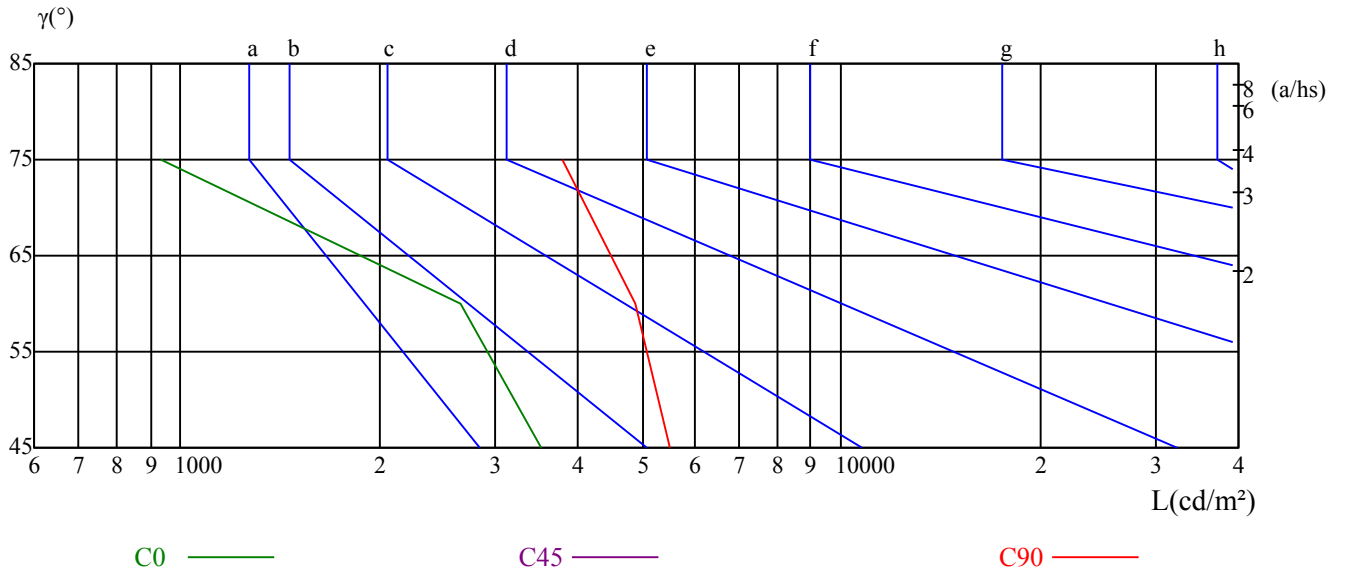
γ	45	50	55	60	65	70	75	80	85
C0	3510	0	0	2650	0	0	931	0	0
C45	0	0	0	0	0	0	0	0	0
C90	5513	0	0	4894	0	0	3787	0	0

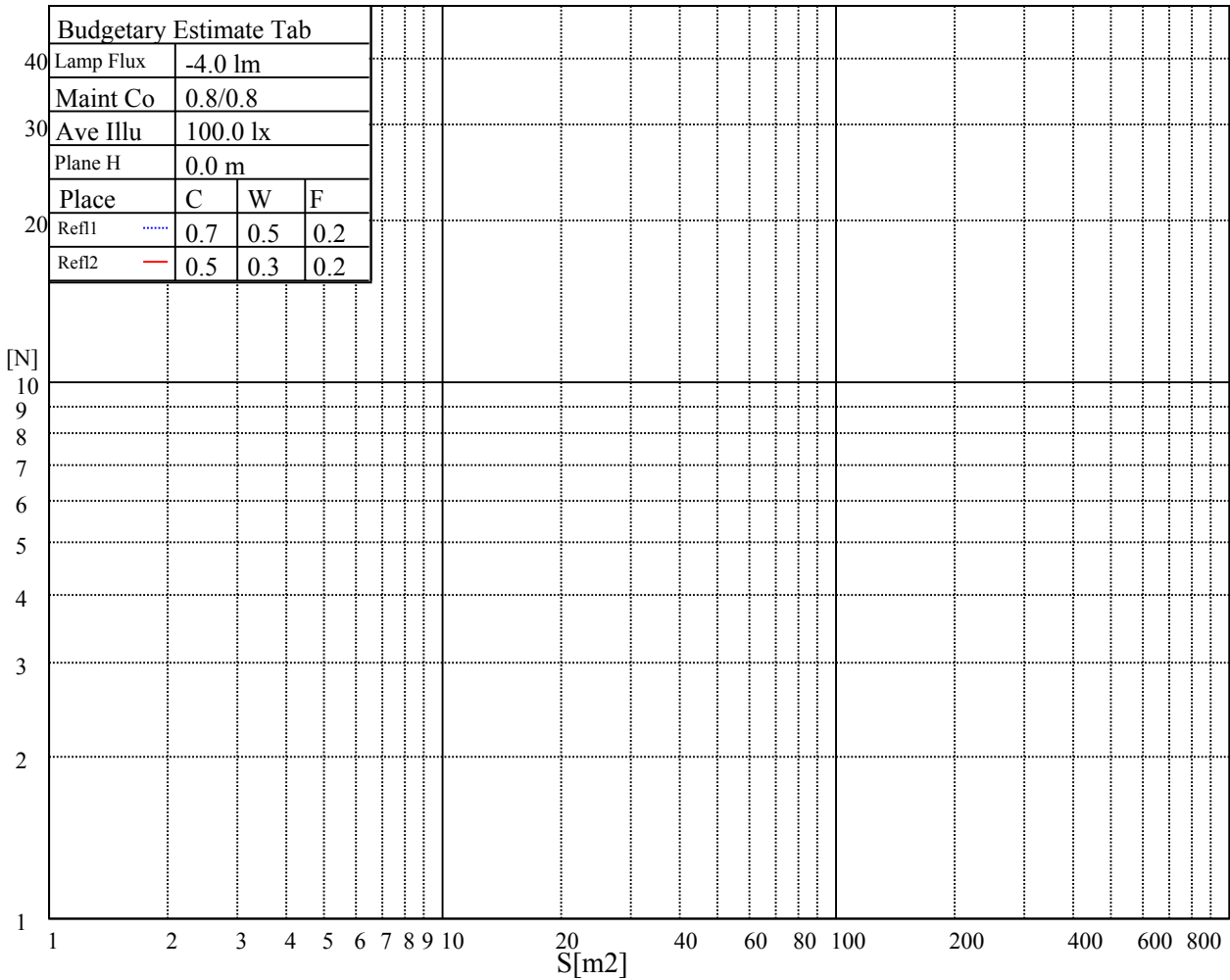
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	2077	4448	0	0	0	0

Glare Table

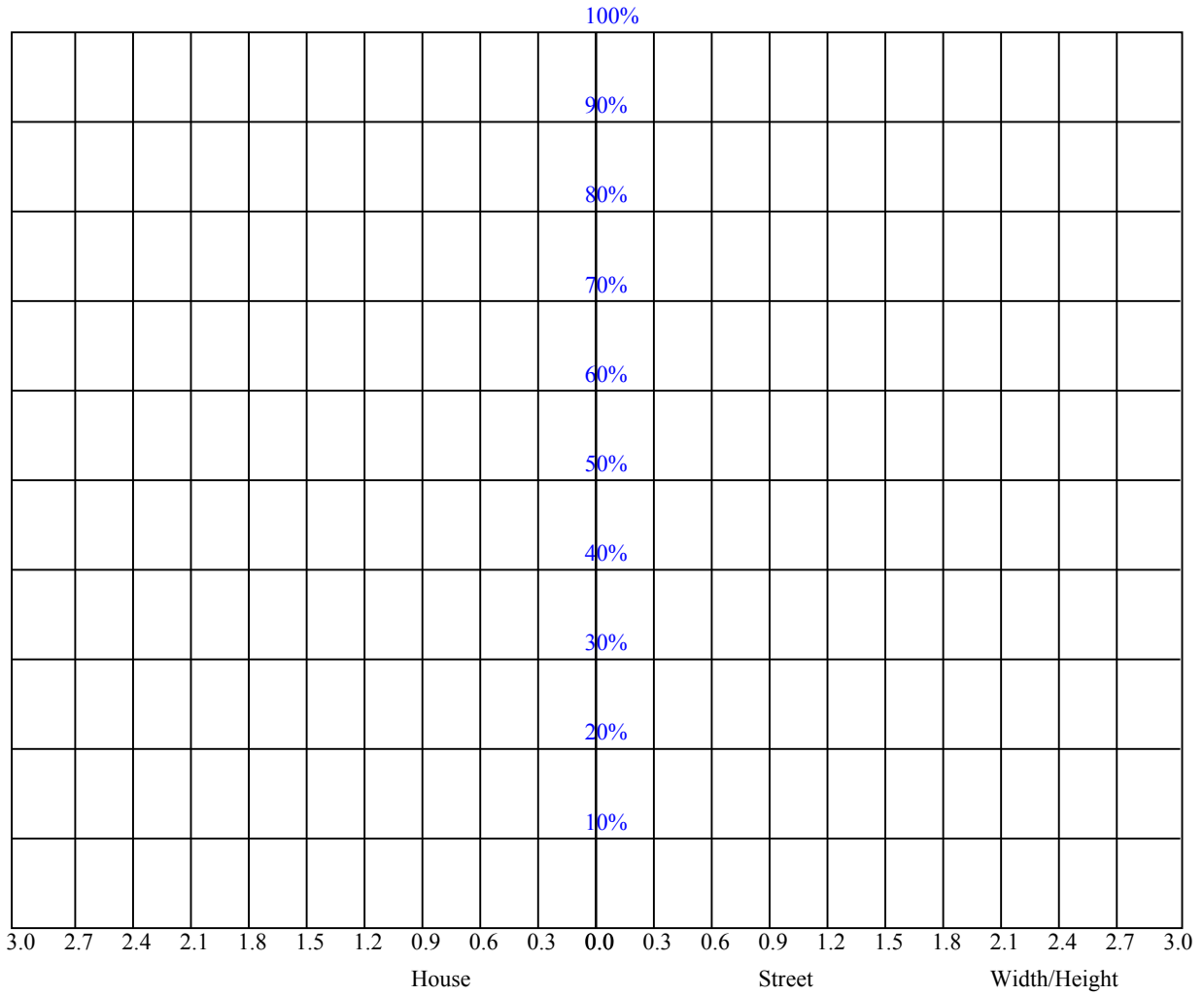
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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 RHOF=20 CU															
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Intensity data(cd)

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C/γ(°)	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0
0.0	2520.04	2300.69	1834.10	1250.93	784.15	200.46	12.09	10.84	12.36
30.0	2508.54	2287.36	1947.25	1274.88	842.55	252.97	16.40	12.95	14.38
60.0	2497.03	2283.55	1986.23	1491.25	821.87	358.27	15.54	13.53	14.87
90.0	2496.07	2379.69	2066.10	1621.61	1075.21	493.48	22.83	13.34	14.48
120.0	2506.62	2342.57	2026.17	1582.44	894.26	424.00	16.40	12.86	14.09
150.0	2509.49	2338.76	2031.87	1378.32	944.04	324.64	16.60	12.38	13.71
180.0	2520.04	2320.68	1858.73	1286.37	826.47	212.43	15.64	12.28	13.90
210.0	2508.54	2300.69	1898.00	1321.52	867.06	260.25	13.33	10.75	11.97
240.0	2497.03	2333.05	2005.25	1578.51	876.06	393.15	14.20	11.42	12.26
270.0	2496.07	2345.43	2009.05	1548.62	974.01	390.75	12.95	12.00	12.84
300.0	2506.62	2287.36	1986.23	1464.53	801.38	328.28	13.33	12.19	13.22
330.0	2509.49	2273.08	1865.19	1213.67	765.00	182.25	12.18	11.61	12.84
360.0	2520.04	2300.69	1834.10	1250.93	784.15	200.46	12.09	10.84	12.36
C/γ(°)	135.0	150.0	165.0	180.0					
0.0	14.37	16.56	18.67	19.70					
30.0	16.29	18.30	19.63	19.90					
60.0	16.58	18.49	19.73	19.80					
90.0	16.20	18.20	19.44	19.61					
120.0	15.91	17.81	19.25	19.70					
150.0	15.62	17.53	19.05	19.51					
180.0	15.81	17.72	19.15	19.70					
210.0	13.98	16.27	18.67	19.90					
240.0	14.17	16.37	18.57	19.80					
270.0	14.75	16.95	18.86	19.61					
300.0	14.85	16.85	18.67	19.70					
330.0	14.85	16.85	18.67	19.51					
360.0	14.37	16.56	18.67	19.70					