
PQL 91301 LED SMD 4' 14.5WT8/50K/CL

LumCAT: /

Luminaire: /

Report No: SL/BG6-173514-02

Voltage(V):

Test No: SL/BG6-173514-02

Current(A):

LampCAT: 14.5WT8/50K/CL

Power (W): 59.2000

Lamp flux(lm): -1.0

PF:

Number of Lamps: 4

Ballast type:

Length(mm): 1200

Width(mm): 320

Phm Type: C

Height(mm): 100

Photometric Results

Lumens(lm): 8078.24

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 136.46

Central intensity(cd): 2955.836

Maximum intensity(cd): 2994.224

Angle of maximum intensity: C=90.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=108.2

[C90/270]Total=101.0

Field angle(10%Imax): [C0/180]Total=162.2

[C90/270]Total=148.6

Maximum s/h(1/2): C0_180=1.25 C90_270=1.14

Maximum s/h(1/4): C0_180=1.36 C90_270=1.29

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 1.45%

Down flux rate of LUM(%): 98.55%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 79.321%

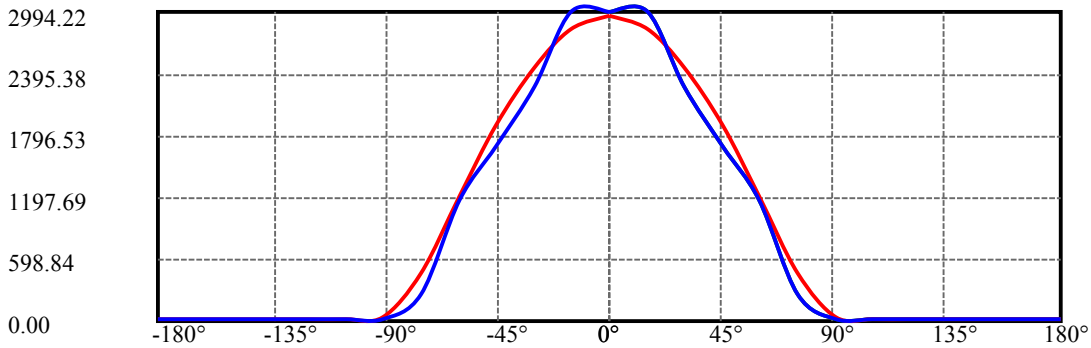
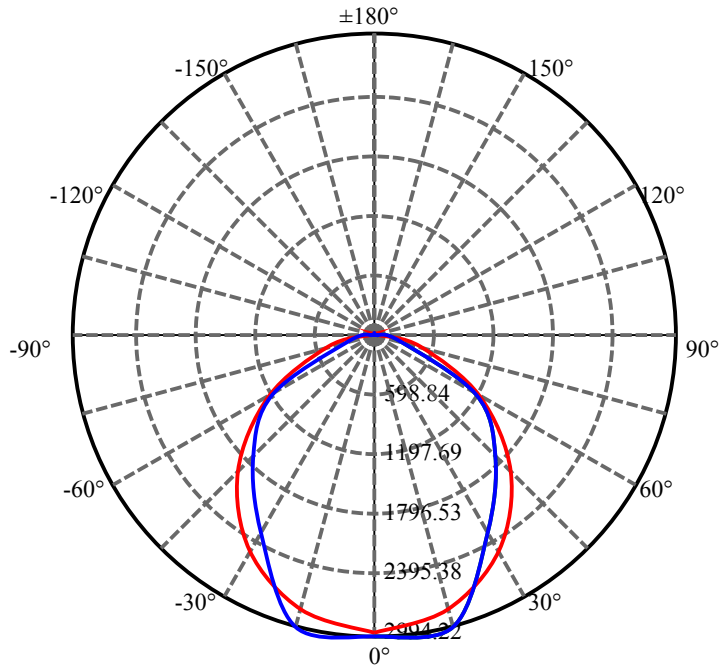
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2973.640	0.000	0	.000%	.000%
15.0	2884.327	627.079	627.079	.000%	7.763%
30.0	2499.349	1689.647	2316.726	.000%	28.679%
45.0	1810.303	2151.626	4468.352	.000%	55.313%
60.0	1170.419	1939.392	6407.744	.000%	79.321%
75.0	412.980	1199.729	7607.473	.000%	94.172%
90.0	21.537	353.307	7960.78	.000%	98.546%
105.0	15.408	30.040	7990.82	.000%	98.918%
120.0	16.744	24.361	8015.182	.000%	99.219%
135.0	19.092	23.316	8038.498	.000%	99.508%
150.0	21.640	20.336	8058.833	.000%	99.760%
165.0	23.691	14.227	8073.061	.000%	99.936%
180.0	24.708	5.181	8078.241	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2316.73	N.A.	28.68%
0-40	2316.73	N.A.	28.68%
0-60	6407.74	N.A.	79.32%
0-90	7960.78	N.A.	98.55%
0-120	8015.18	N.A.	99.22%
0-180	8078.24	N.A.	100.00%
60-90	3492.43	N.A.	43.23%
90-120	407.71	N.A.	5.05%
90-130	407.71	N.A.	5.05%
90-150	451.36	N.A.	5.59%
90-180	465.59	N.A.	5.76%
0-60.69	6462.59	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	0.00
10-20	627.08
20-30	1689.65
30-40	0.00
40-50	2151.63
50-60	1939.39
60-70	0.00
70-80	1199.73
80-90	353.31
90-100	0.00
100-110	30.04
110-120	24.36
120-130	0.00
130-140	23.32
140-150	20.34
150-160	0.00
160-170	14.23
170-180	0.00



C90(Max): ———

C0/C180: ———

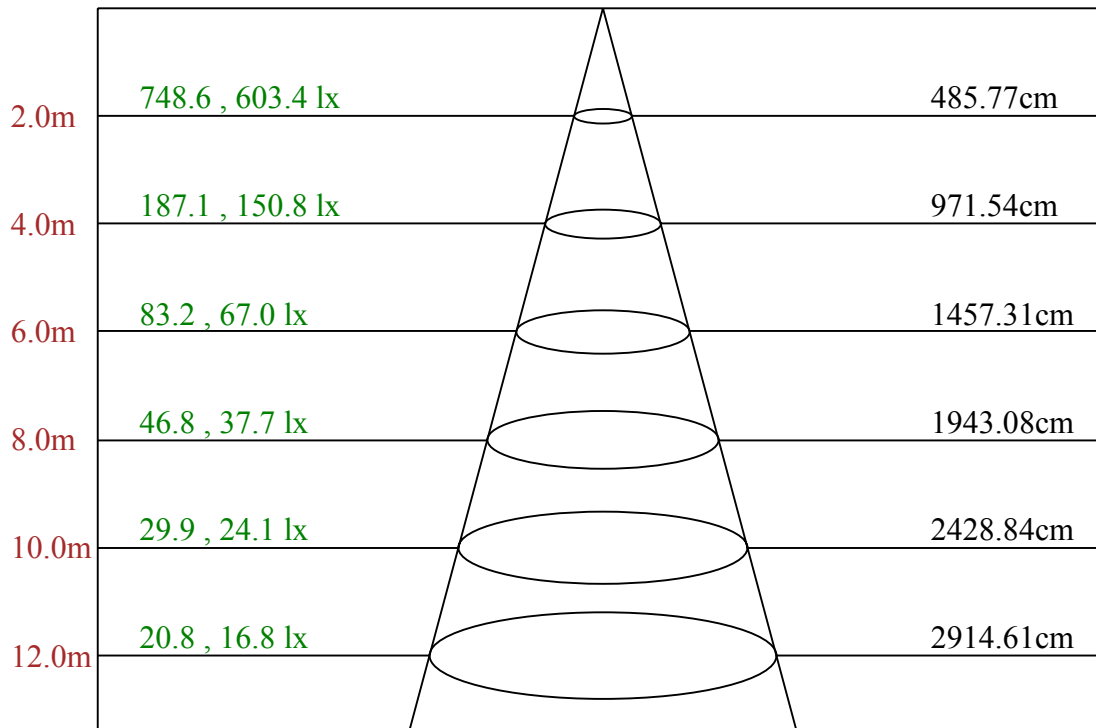
C90/C270: ———

Field angle(10%Imax):C0/180Left:81.1 Right:81.1

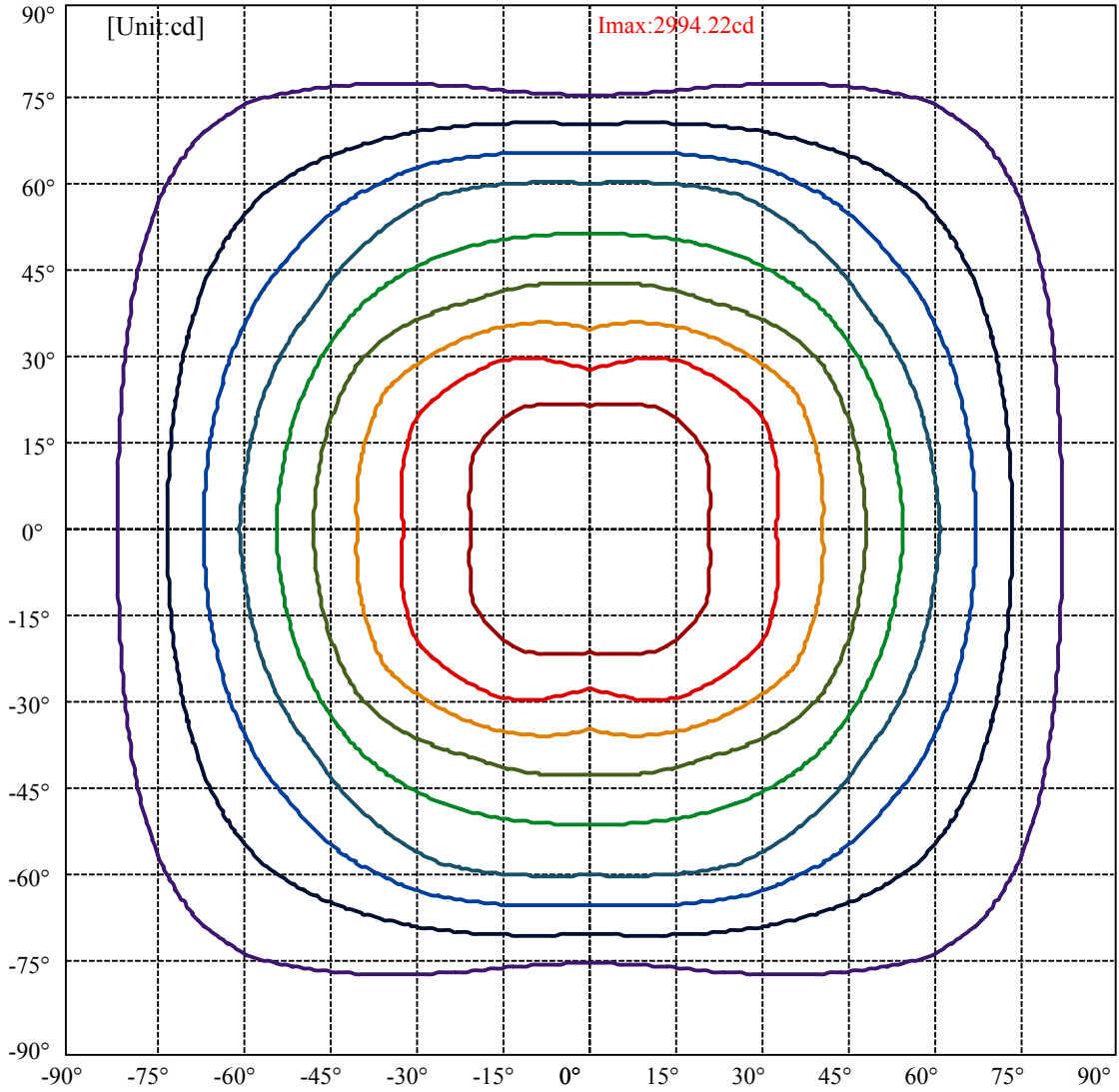
:C90/270Left:74.3 Right:74.3

Beam Angle(50%Imax):C0/180Left:54.1 Right:54.1

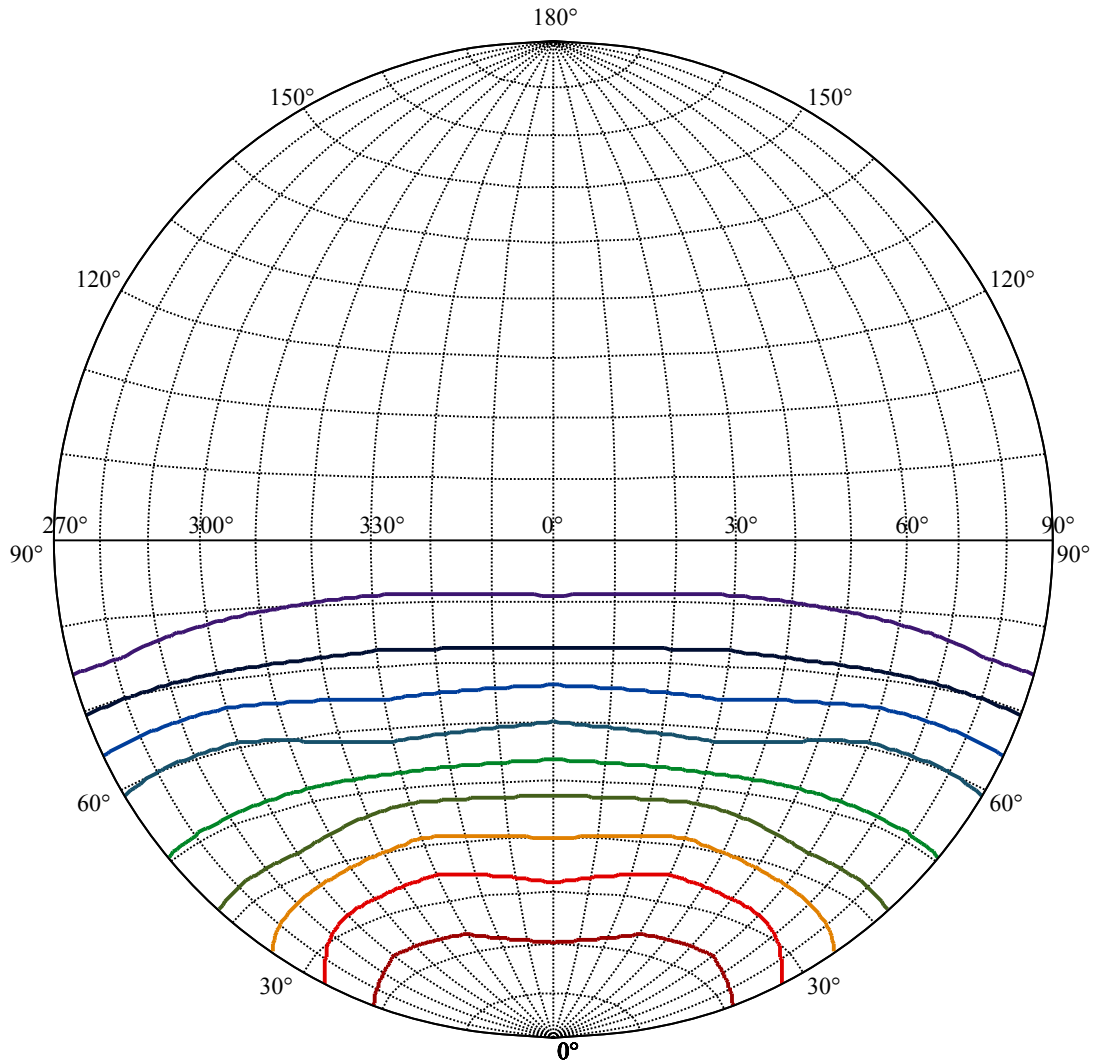
:C90/270Left:50.5 Right:50.5



Max , Ave Beam angle of C90 plane 101.06



(10%Imax) 299.422	—
(20%Imax) 598.845	—
(30%Imax) 898.267	—
(40%Imax) 1197.69	—
(50%Imax) 1497.11	—
(60%Imax) 1796.53	—
(70%Imax) 2095.96	—
(80%Imax) 2395.38	—
(90%Imax) 2694.8	—



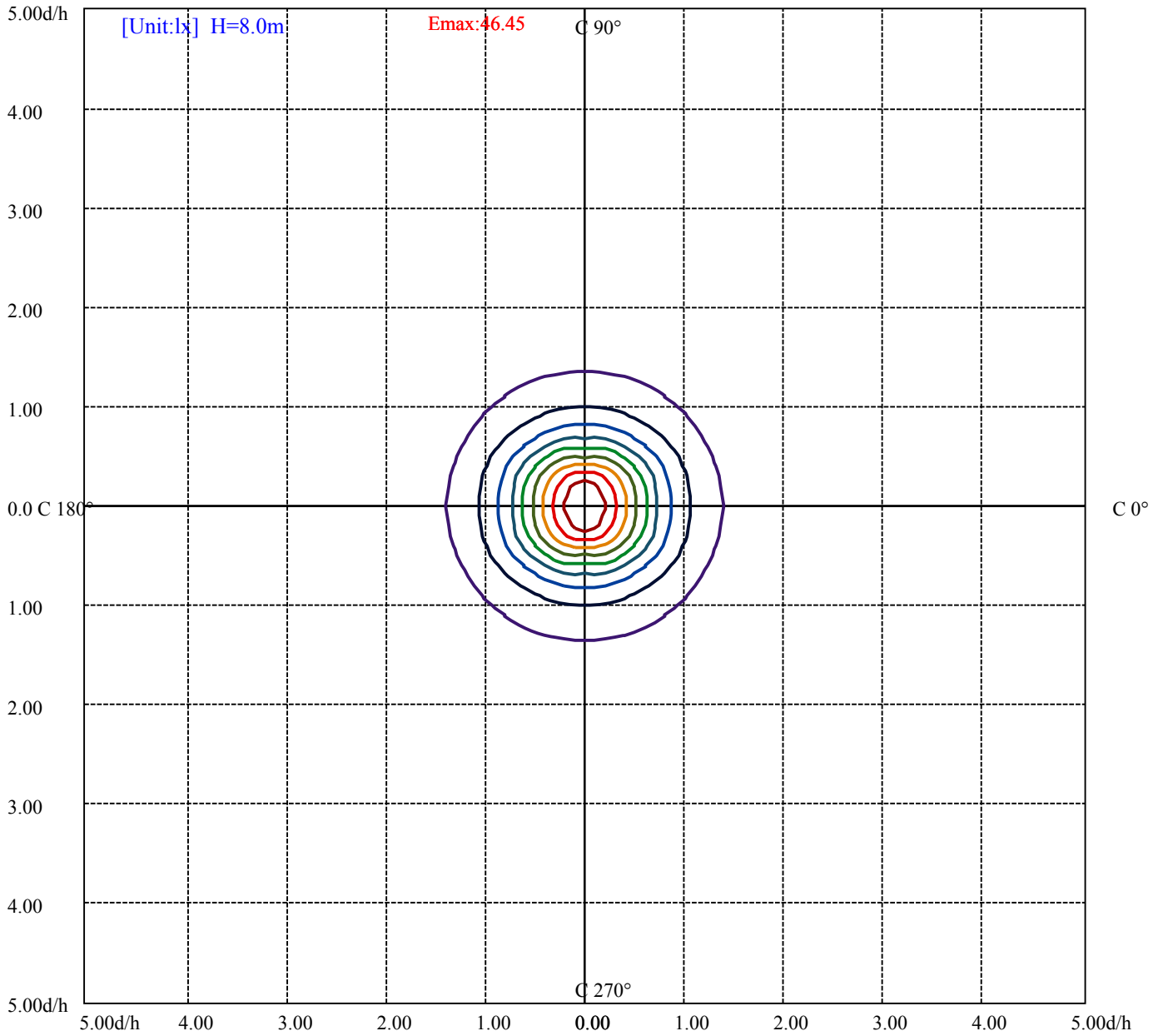
House

[Unit:cd]

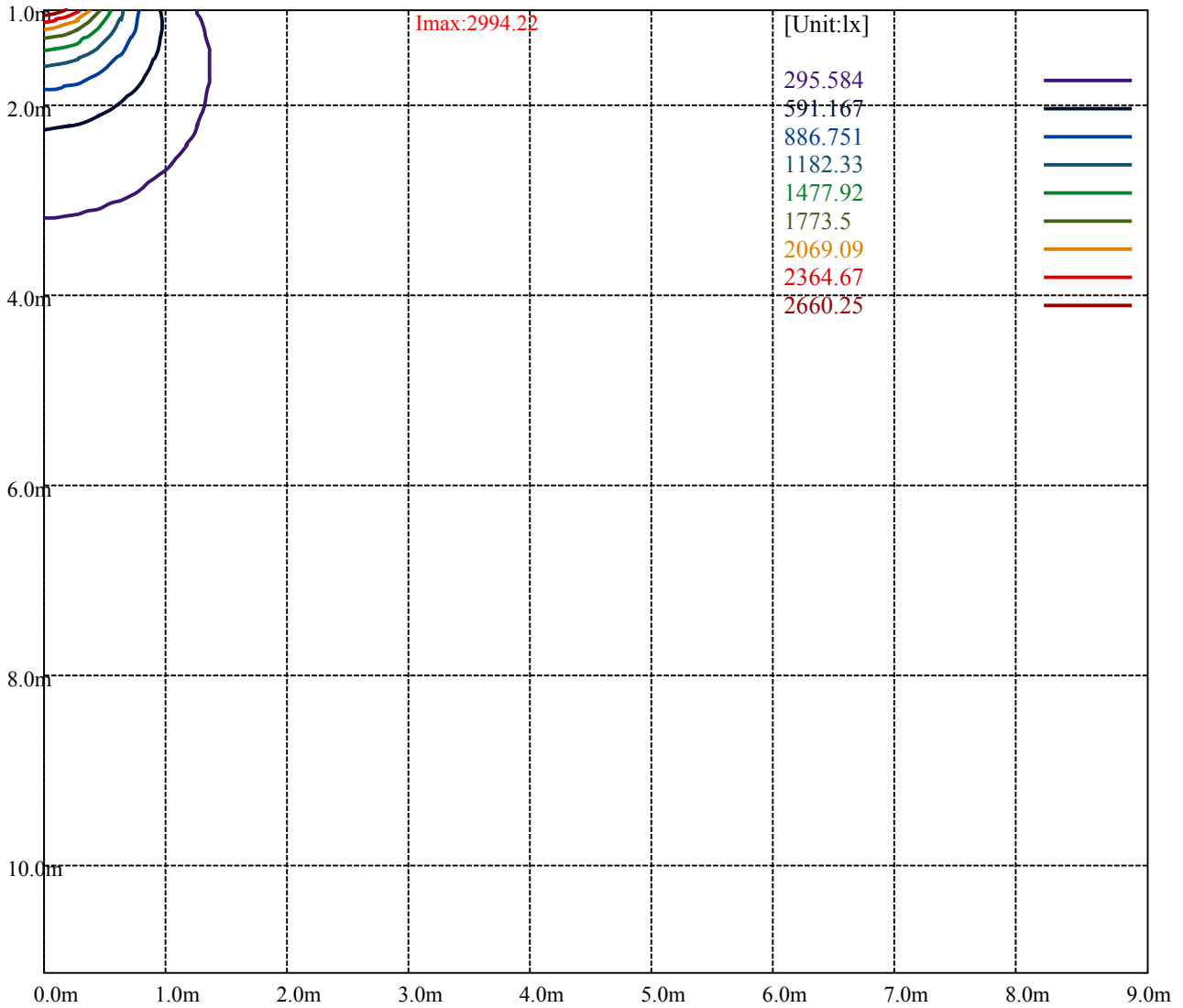
Road

Imax:2994.22

(10%Imax) 299.422	—
(20%Imax) 598.845	—
(30%Imax) 898.267	—
(40%Imax) 1197.69	—
(50%Imax) 1497.11	—
(60%Imax) 1796.53	—
(70%Imax) 2095.96	—
(80%Imax) 2395.38	—
(90%Imax) 2694.8	—



(10%Emax) 4.644609	—
(20%Emax) 9.289234	—
(30%Emax) 13.93384	—
(40%Emax) 18.57844	—
(50%Emax) 23.22313	—
(60%Emax) 27.86766	—
(70%Emax) 32.51234	—
(80%Emax) 37.15688	—
(90%Emax) 41.80156	—



Luminance Table

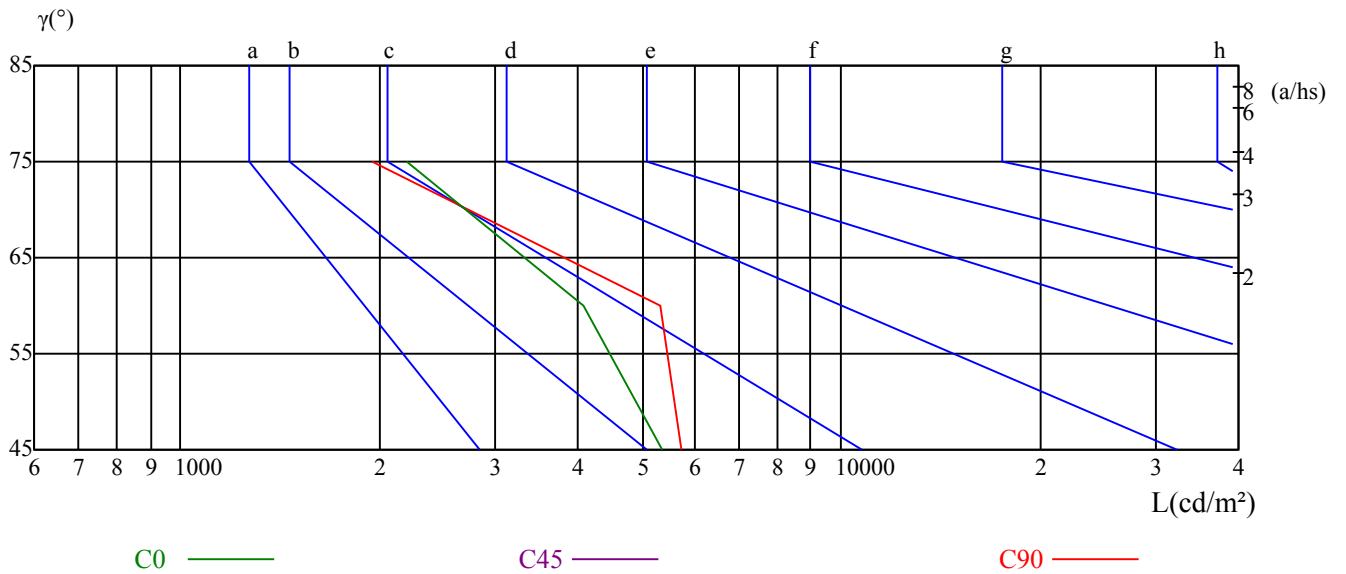
γ	45	50	55	60	65	70	75	80	85
C0	5347	0	0	4063	0	0	2202	0	0
C45	24	0	0	20	0	0	13	0	0
C90	5736	0	0	5327	0	0	1957	0	0

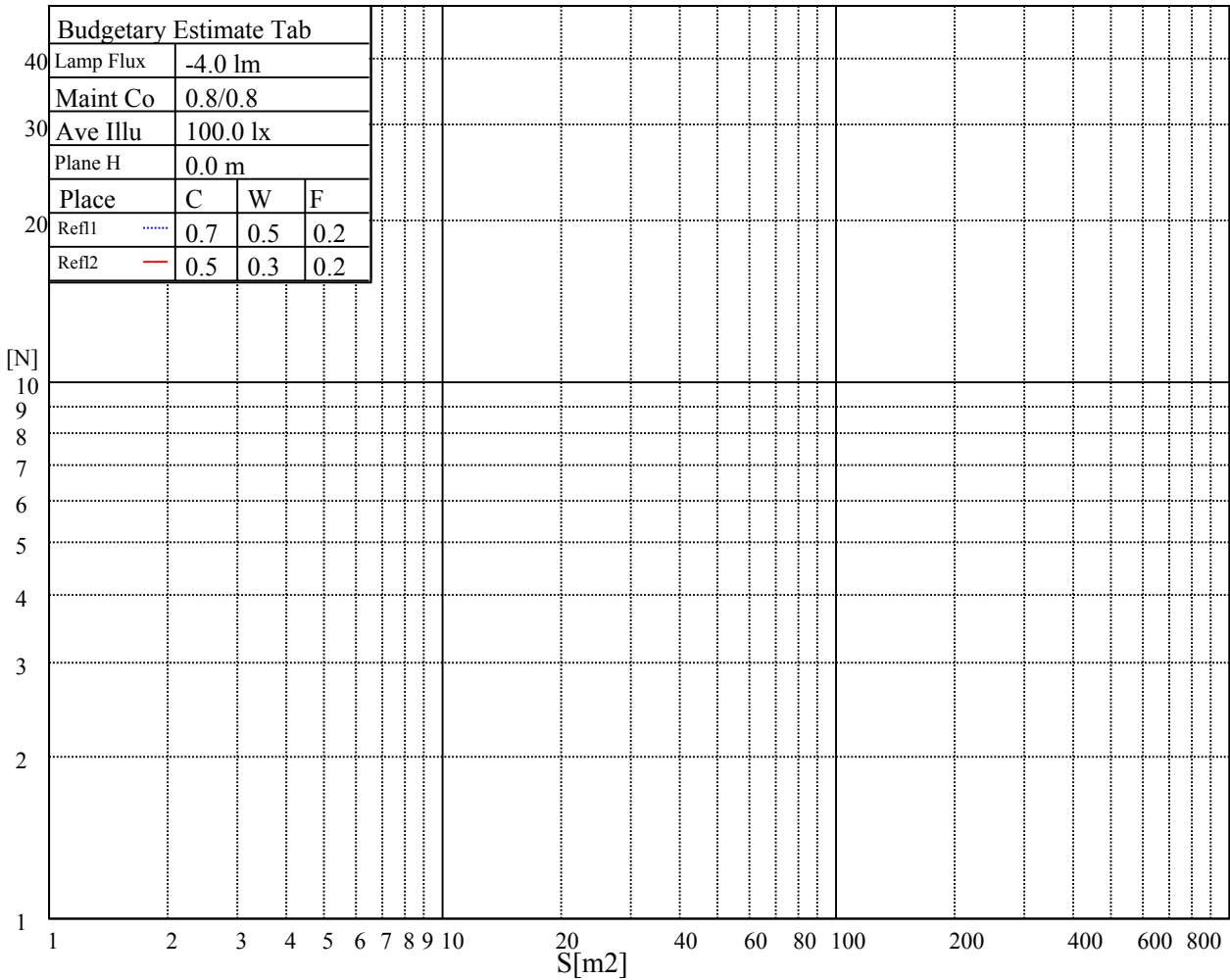
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
29	28	28	4770	2565	26	25	25	25

Glare Table

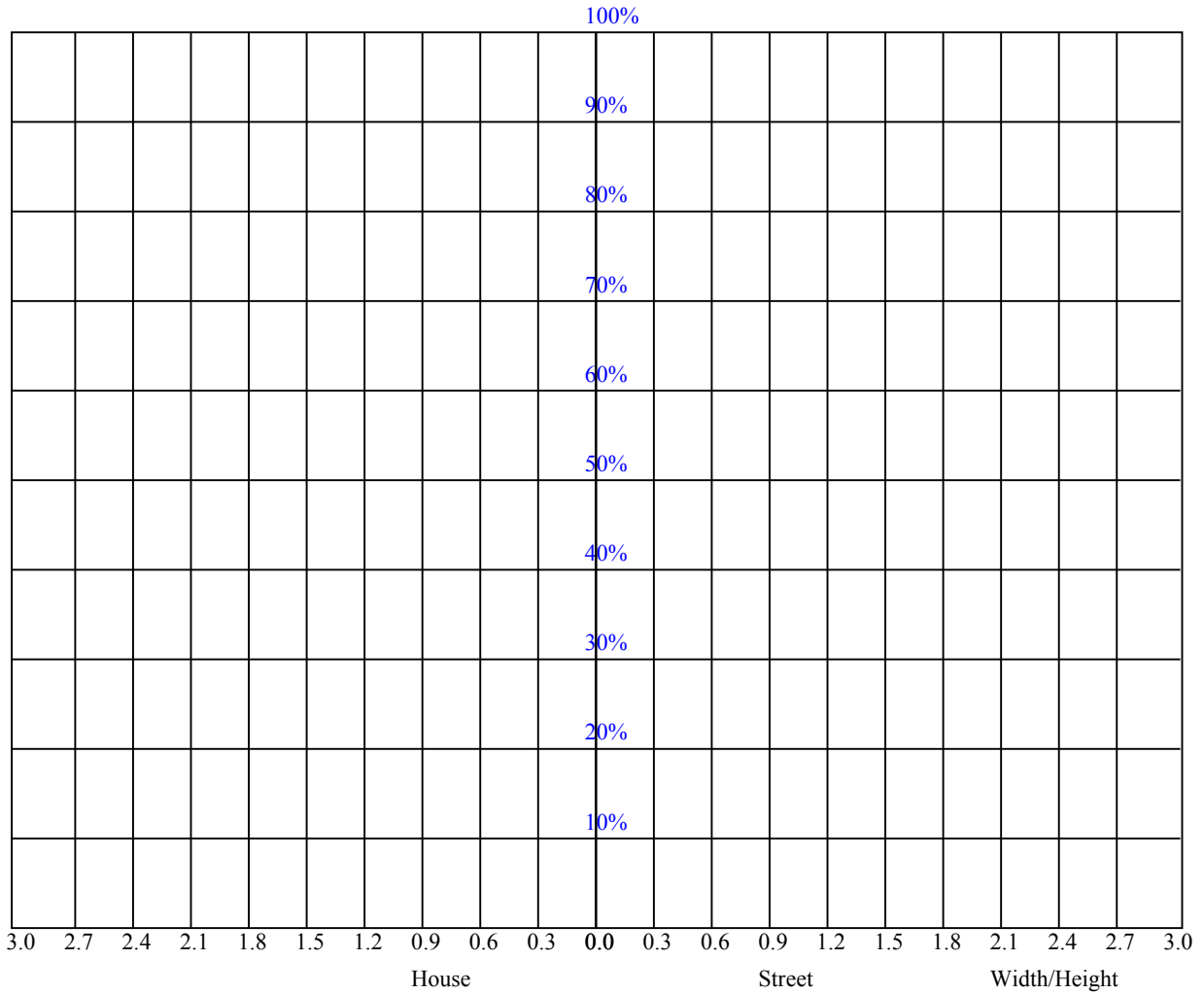
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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)

C/γ(°)	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0
0.0	2955.84	2827.39	2466.85	1930.68	1226.48	509.01	38.83	16.66	17.88
30.0	2968.25	2809.42	2619.63	2020.33	1115.16	532.31	20.60	16.33	17.76
60.0	2973.90	2943.10	2616.26	1743.26	1292.17	434.83	21.16	15.87	17.20
90.0	2994.22	3008.25	2236.46	1690.31	1168.84	262.50	20.26	15.64	17.42
120.0	2985.19	2963.32	2540.99	1700.92	1221.95	336.11	18.12	14.06	15.28
150.0	2961.48	2802.68	2598.28	2023.27	1100.78	578.57	18.01	14.40	15.50
180.0	2955.84	2815.82	2454.76	1880.11	1178.02	439.10	35.52	14.85	15.95
210.0	2968.25	2791.45	2617.38	1833.58	1032.83	423.35	15.87	14.97	16.07
240.0	2979.81	2936.92	2427.53	1676.59	1246.33	368.51	17.16	14.62	15.95
270.0	2994.22	2979.04	2286.00	1684.55	1172.12	247.41	15.31	13.94	15.39
300.0	2985.19	2939.73	2505.05	1672.13	1235.54	342.19	19.36	16.66	17.99
330.0	2961.48	2794.82	2623.00	1867.91	1054.80	481.88	18.24	16.89	18.55
360.0	2955.84	2827.39	2466.85	1930.68	1226.48	509.01	38.83	16.66	17.88
C/γ(°)	135.0	150.0	165.0	180.0					
0.0	20.27	22.65	24.27	24.61					
30.0	20.05	22.31	24.16	24.84					
60.0	19.71	22.20	23.82	24.50					
90.0	19.82	22.31	23.94	24.50					
120.0	17.67	20.61	23.48	24.95					
150.0	17.67	20.50	23.15	24.84					
180.0	18.35	21.06	23.37	24.61					
210.0	18.12	20.61	23.15	24.84					
240.0	18.35	20.84	23.03	24.50					
270.0	17.78	20.61	23.03	24.50					
300.0	20.61	22.99	24.27	24.95					
330.0	20.72	22.99	24.61	24.84					
360.0	20.27	22.65	24.27	24.61					