
PQL 91305 LED SMD 4' 15WT8/35K/FR/V5

LumCAT: /

Luminaire: /

Report No: SL/BG6-173515-02

Voltage(V):

Test No: SL/BG6-173515-02

Current(A):

LampCAT: 15WT8/35K/FR/V5

Power (W): 73.3000

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): 8037.27

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 109.65

Central intensity(cd): 2940.846

Maximum intensity(cd): 2979.039

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%

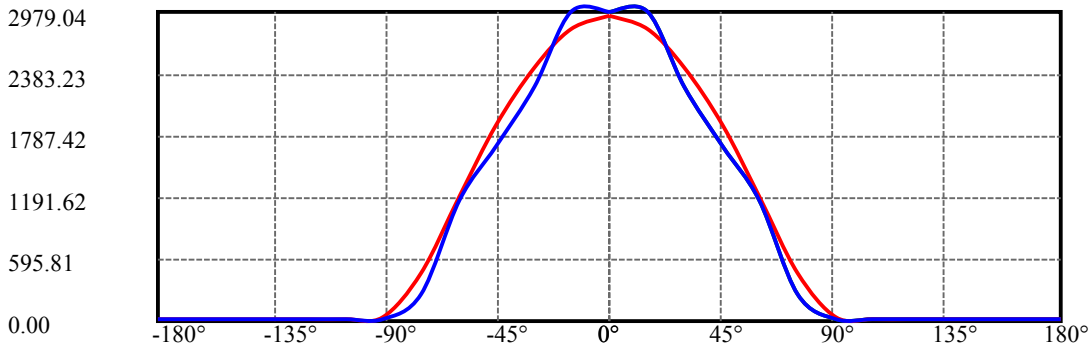
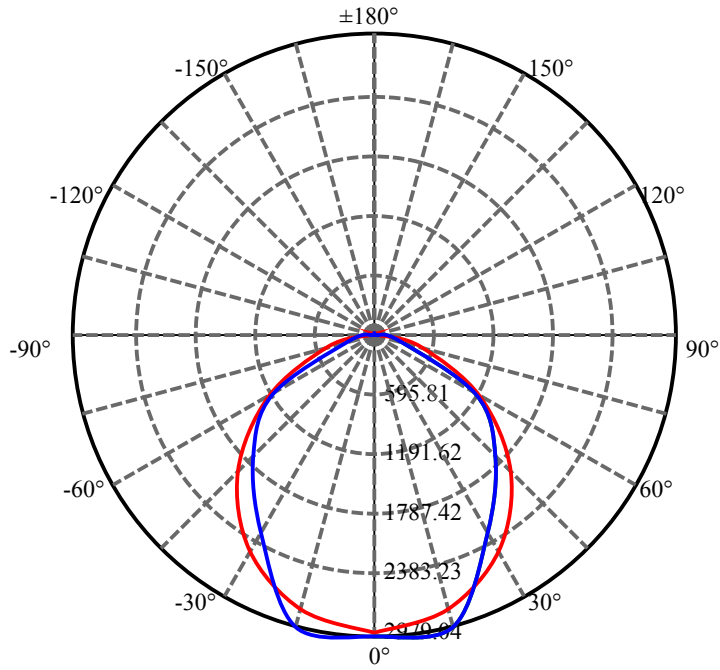
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2958.560	0.000	0	.000%	.000%
15.0	2869.700	623.899	623.899	.000%	7.763%
30.0	2486.674	1681.079	2304.978	.000%	28.679%
45.0	1801.122	2140.715	4445.692	.000%	55.313%
60.0	1164.483	1929.557	6375.249	.000%	79.321%
75.0	410.885	1193.645	7568.894	.000%	94.172%
90.0	21.428	351.515	7920.409	.000%	98.546%
105.0	15.330	29.888	7950.297	.000%	98.918%
120.0	16.659	24.238	7974.535	.000%	99.219%
135.0	18.995	23.198	7997.733	.000%	99.508%
150.0	21.530	20.232	8017.965	.000%	99.760%
165.0	23.571	14.155	8032.12	.000%	99.936%
180.0	24.582	5.155	8037.275	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2304.98	N.A.	28.68%
0-40	2304.98	N.A.	28.68%
0-60	6375.25	N.A.	79.32%
0-90	7920.41	N.A.	98.55%
0-120	7974.53	N.A.	99.22%
0-180	8037.27	N.A.	100.00%
60-90	3474.72	N.A.	43.23%
90-120	405.64	N.A.	5.05%
90-130	405.64	N.A.	5.05%
90-150	449.07	N.A.	5.59%
90-180	463.23	N.A.	5.76%
0-60.69	6429.82	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	0.00
10-20	623.90
20-30	1681.08
30-40	0.00
40-50	2140.71
50-60	1929.56
60-70	0.00
70-80	1193.64
80-90	351.52
90-100	0.00
100-110	29.89
110-120	24.24
120-130	0.00
130-140	23.20
140-150	20.23
150-160	0.00
160-170	14.15
170-180	0.00



C90(Max): ———

C0/C180: ———

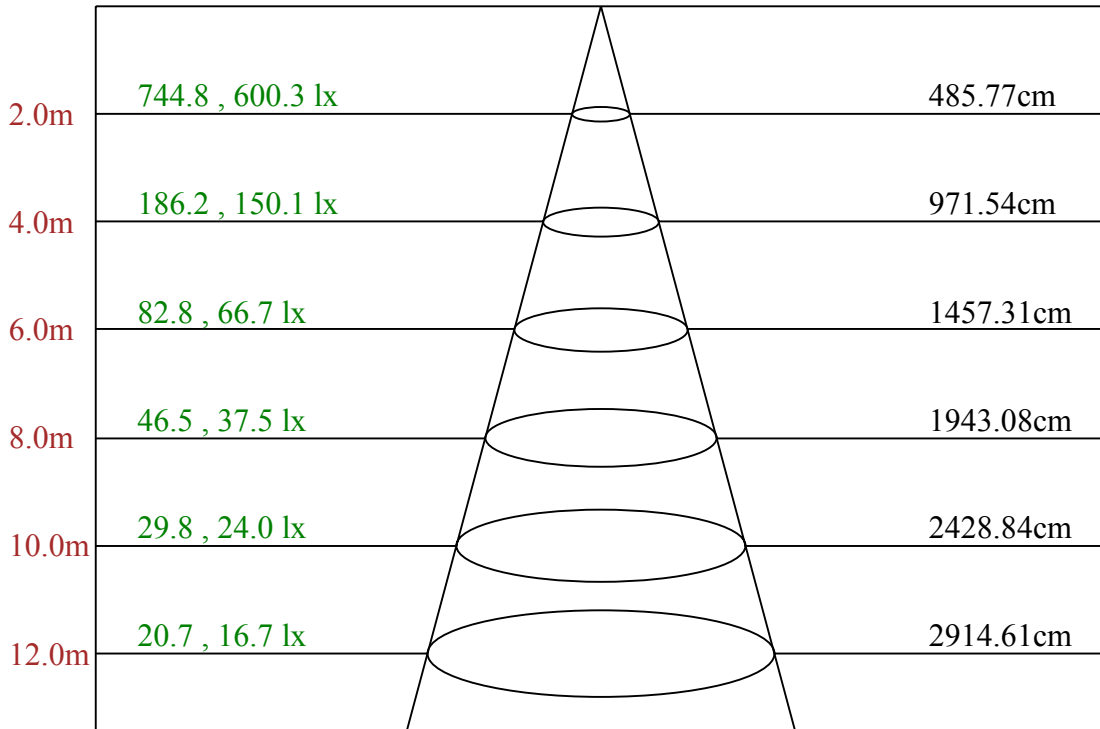
C90/C270: ———

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

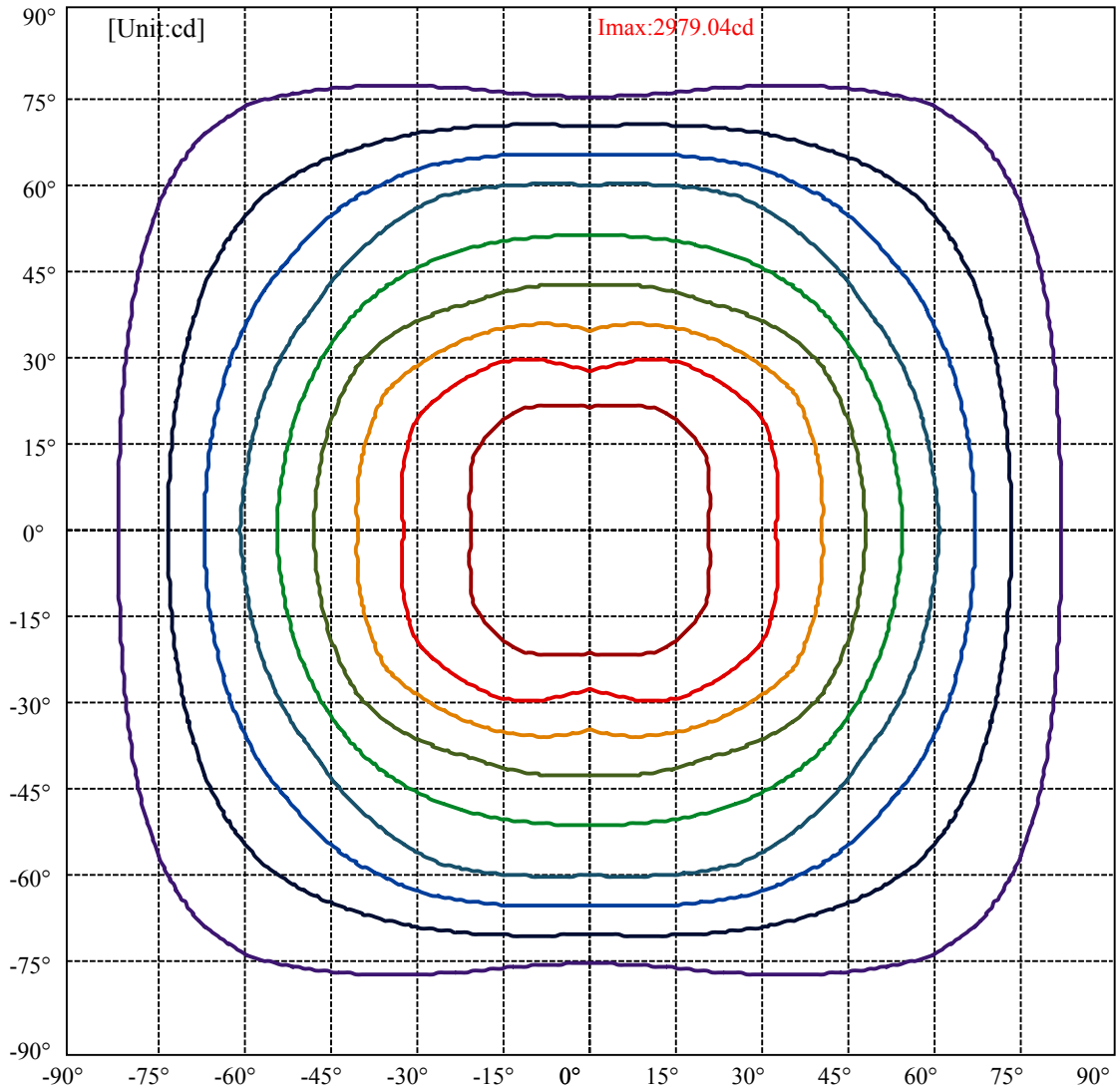
:C90/270Left:74.3 Right:74.3

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

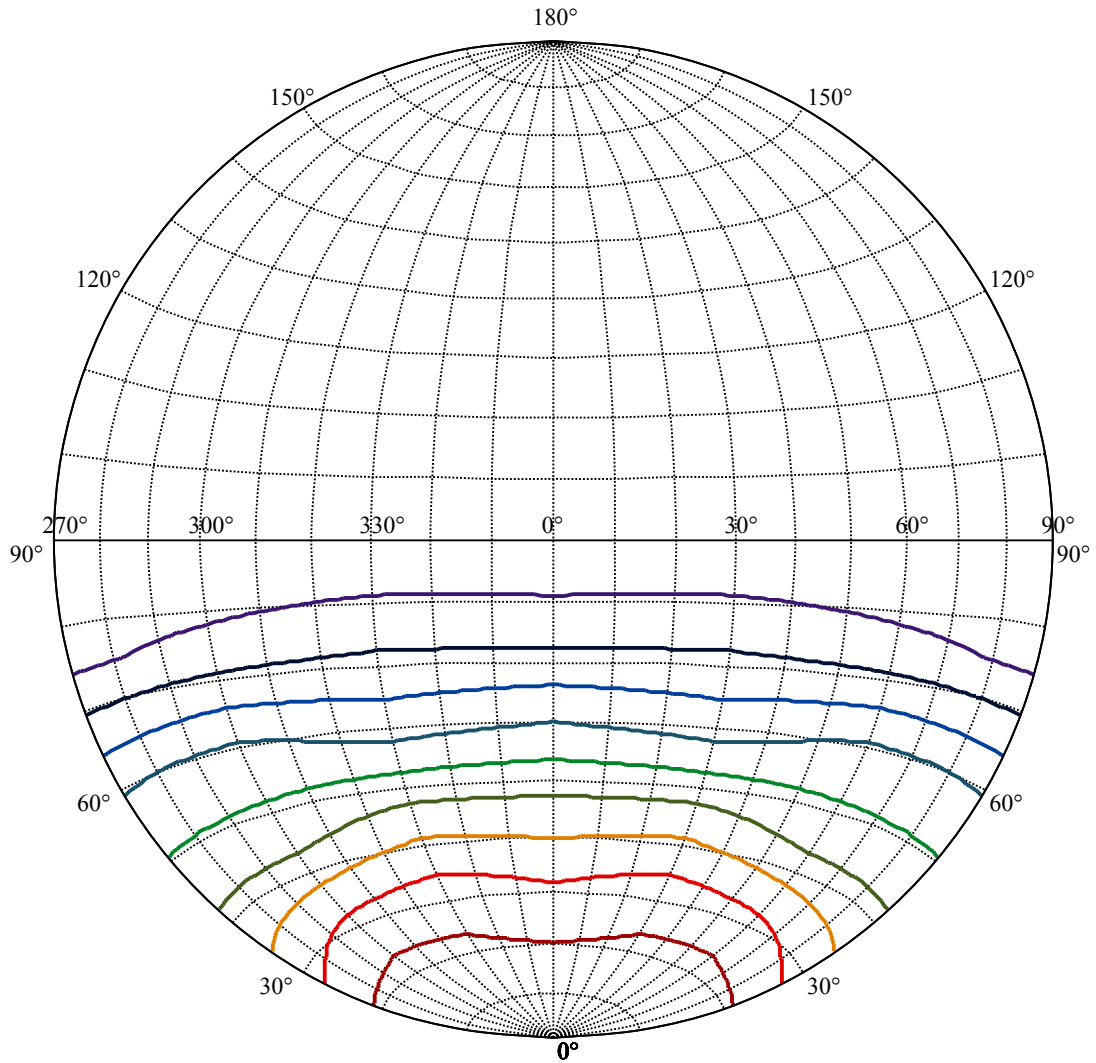
:C90/270Left:50.5 Right:50.5



Max , Ave Beam angle of C90 plane 101.06



(10%Imax) 297.904	—
(20%Imax) 595.808	—
(30%Imax) 893.712	—
(40%Imax) 1191.62	—
(50%Imax) 1489.52	—
(60%Imax) 1787.42	—
(70%Imax) 2085.33	—
(80%Imax) 2383.23	—
(90%Imax) 2681.14	—



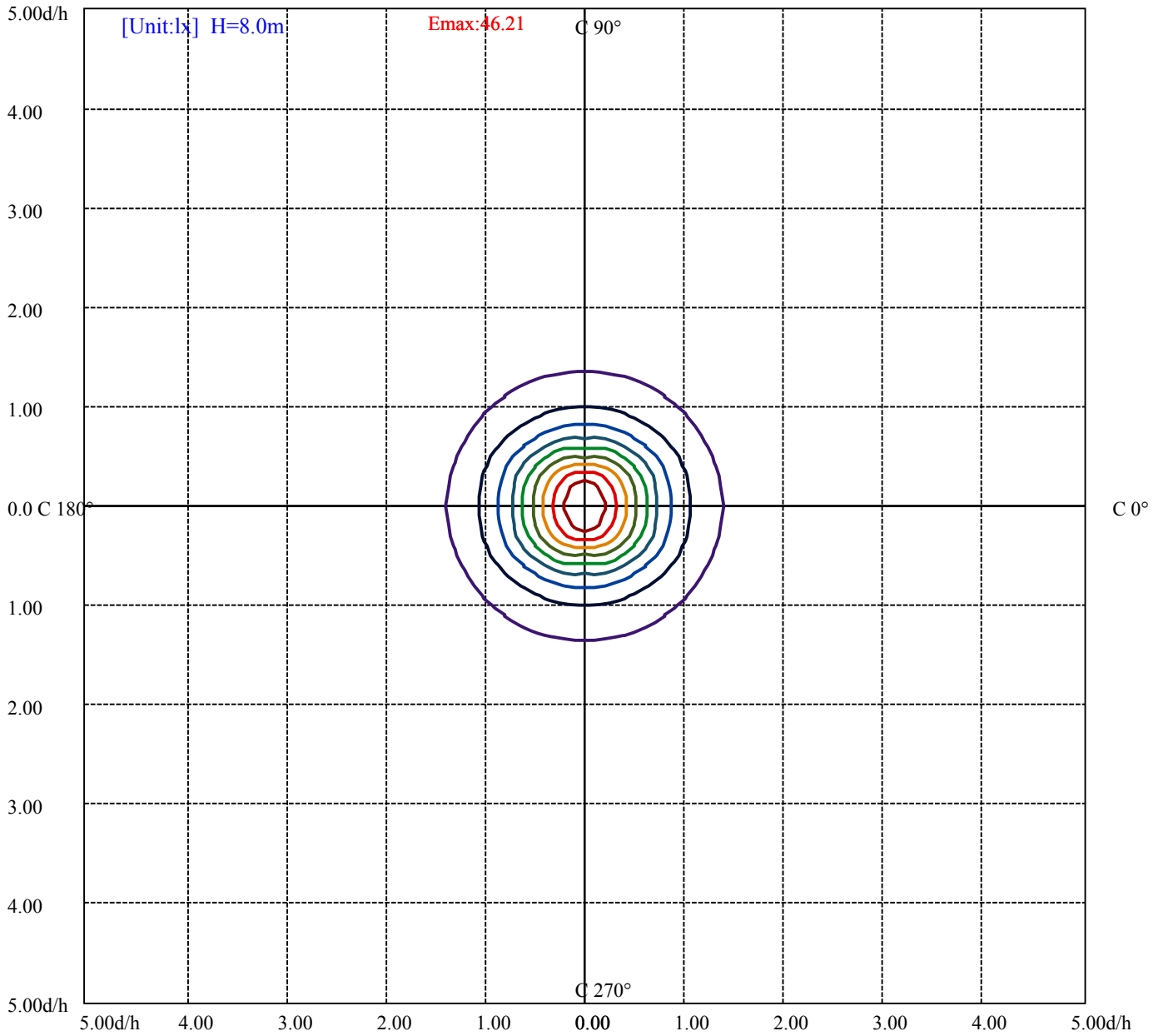
House

[Unit:cd]

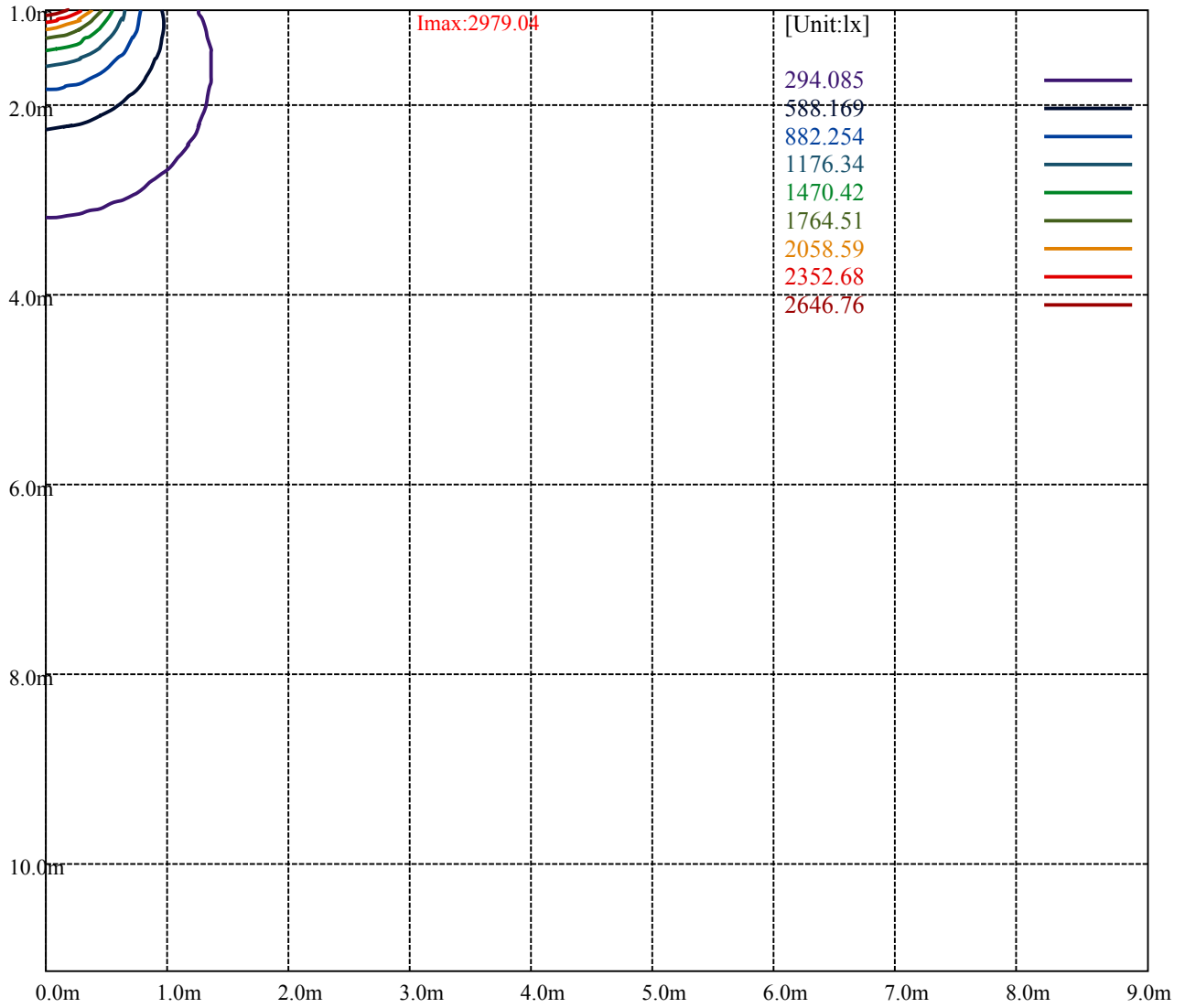
Road

I_{max}:2979.04

(10%I _{max}) 297.904	—
(20%I _{max}) 595.808	—
(30%I _{max}) 893.712	—
(40%I _{max}) 1191.62	—
(50%I _{max}) 1489.52	—
(60%I _{max}) 1787.42	—
(70%I _{max}) 2085.33	—
(80%I _{max}) 2383.23	—
(90%I _{max}) 2681.14	—



(10%Emax) 4.621062	—
(20%Emax) 9.242125	—
(30%Emax) 13.86319	—
(40%Emax) 18.48422	—
(50%Emax) 23.10531	—
(60%Emax) 27.72641	—
(70%Emax) 32.3475	—
(80%Emax) 36.96844	—
(90%Emax) 41.58953	—



Luminance Table

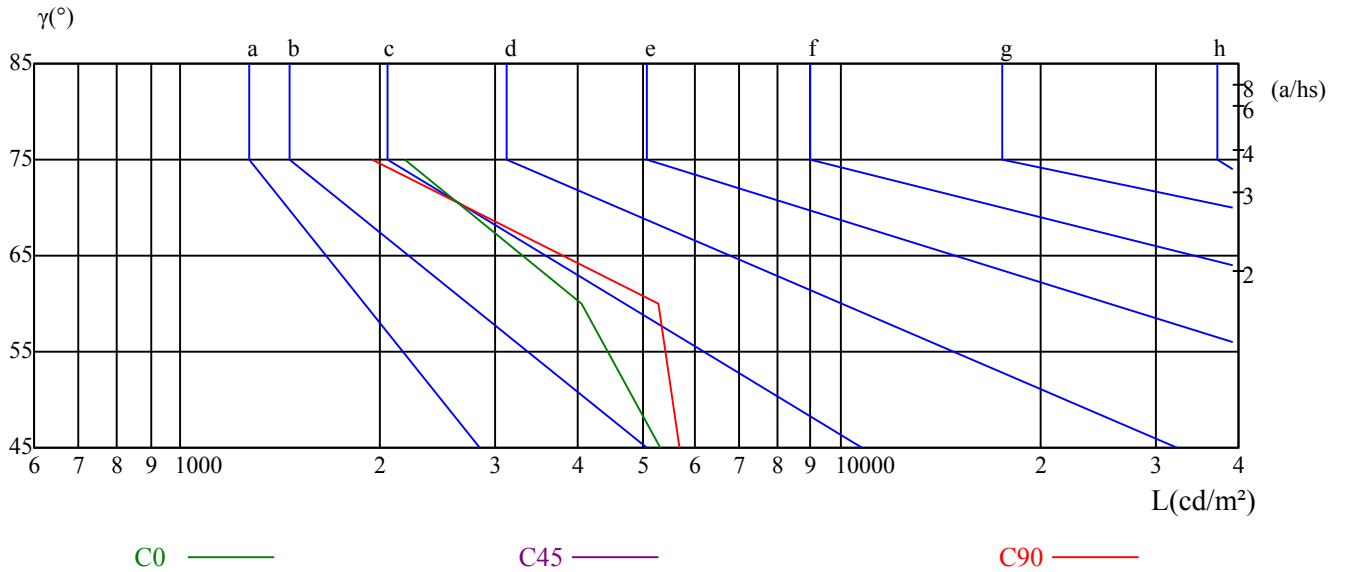
γ	45	50	55	60	65	70	75	80	85
C0	5319	0	0	4042	0	0	2191	0	0
C45	24	0	0	20	0	0	13	0	0
C90	5707	0	0	5300	0	0	1947	0	0

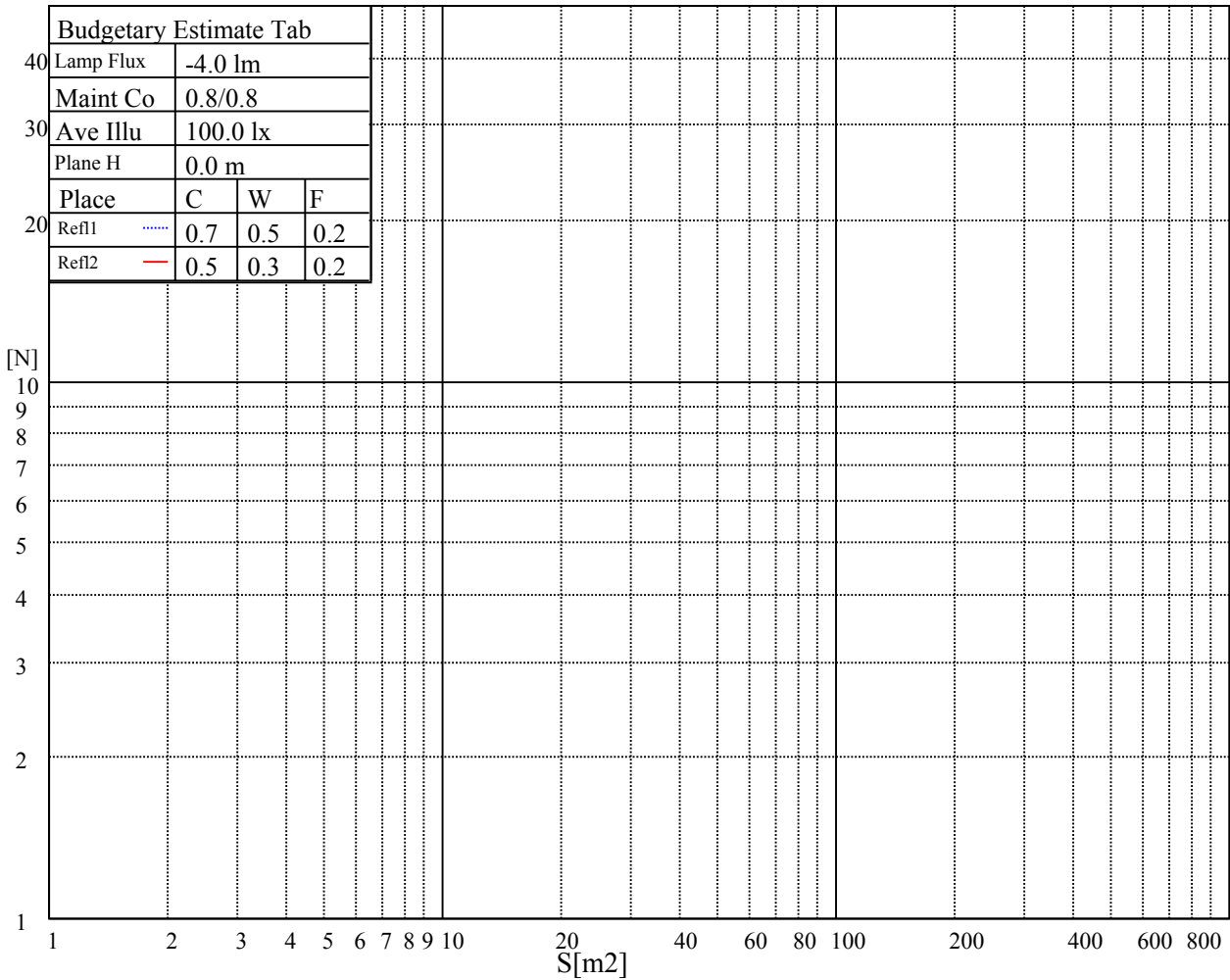
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
29	28	28	4746	2552	26	25	25	25

Glare Table

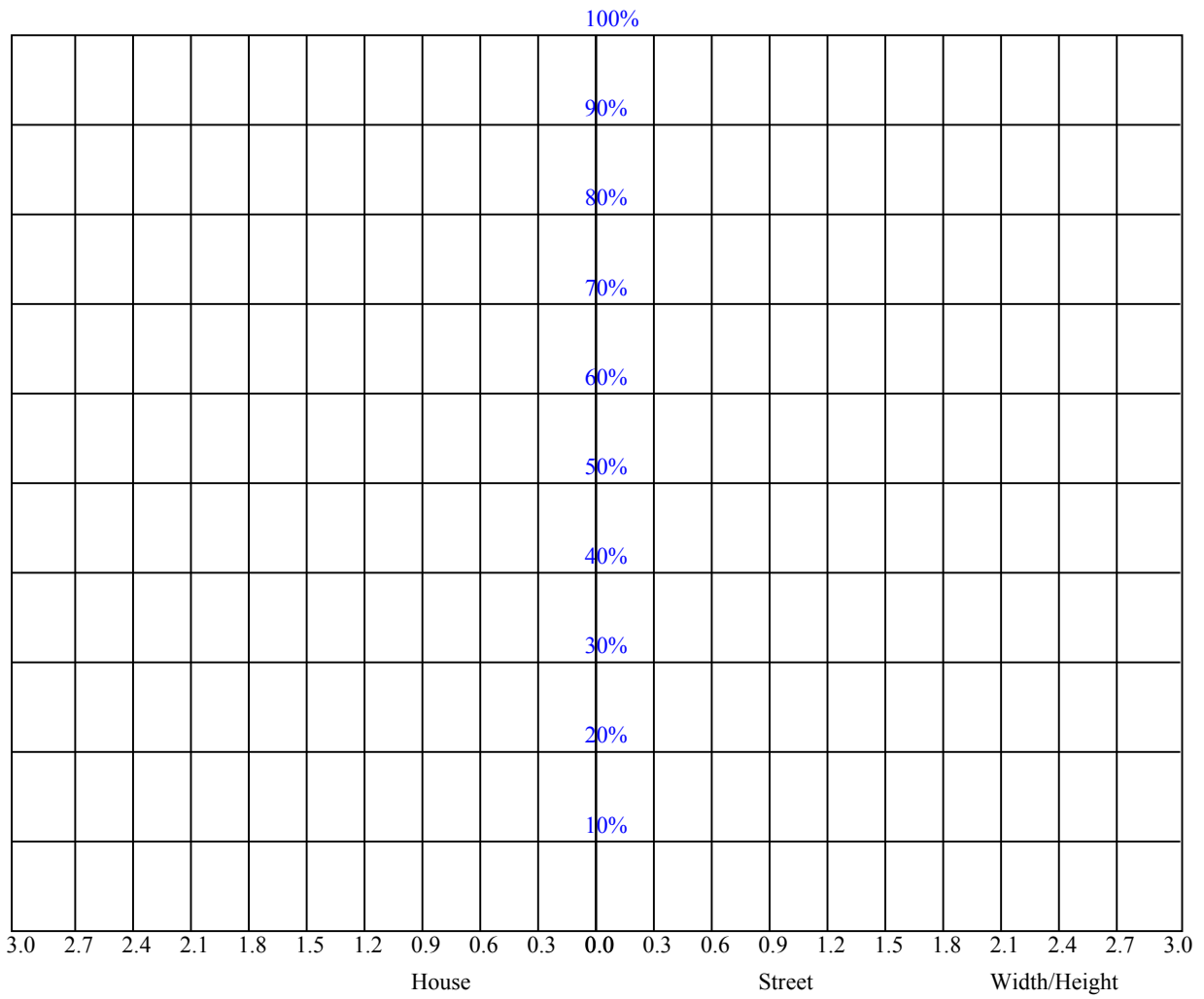
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	2940.85	2813.06	2454.34	1920.89	1220.27	506.43	38.64	16.58	17.79
30.0	2953.20	2795.17	2606.34	2010.08	1109.50	529.61	20.49	16.24	17.67
60.0	2958.82	2928.17	2602.99	1734.42	1285.61	432.62	21.05	15.79	17.11
90.0	2979.04	2992.99	2225.12	1681.74	1162.91	261.17	20.16	15.56	17.34
120.0	2970.05	2948.29	2528.11	1692.29	1215.76	334.41	18.03	13.99	15.20
150.0	2946.46	2788.47	2585.11	2013.00	1095.20	575.64	17.92	14.32	15.42
180.0	2940.85	2801.54	2442.31	1870.58	1172.04	436.87	35.34	14.77	15.87
210.0	2953.20	2777.29	2604.11	1824.29	1027.59	421.20	15.79	14.89	15.98
240.0	2964.70	2922.02	2415.22	1668.09	1240.01	366.64	17.07	14.55	15.87
270.0	2979.04	2963.93	2274.40	1676.01	1166.18	246.16	15.23	13.87	15.31
300.0	2970.05	2924.82	2492.34	1663.65	1229.28	340.46	19.26	16.58	17.90
330.0	2946.46	2780.64	2609.70	1858.43	1049.45	479.44	18.14	16.81	18.46
360.0	2940.85	2813.06	2454.34	1920.89	1220.27	506.43	38.64	16.58	17.79
C/γ(°)	135.0	150.0	165.0	180.0					
0.0	20.17	22.53	24.15	24.49					
30.0	19.94	22.20	24.04	24.71					
60.0	19.61	22.09	23.70	24.38					
90.0	19.72	22.20	23.82	24.38					
120.0	17.58	20.51	23.37	24.83					
150.0	17.58	20.39	23.03	24.71					
180.0	18.25	20.96	23.25	24.49					
210.0	18.03	20.51	23.03	24.71					
240.0	18.25	20.73	22.92	24.38					
270.0	17.69	20.51	22.92	24.38					
300.0	20.51	22.87	24.15	24.83					
330.0	20.62	22.87	24.49	24.71					
360.0	20.17	22.53	24.15	24.49					