
PQL 91298 LED 12.5WT8/35K/FR/V5

LumCAT: /

Luminaire: /

Report No: SL/BG6-172568-03

Test No:

LampCAT: 12.5WT8/35K/FR/V5

Lamp flux(lm): -1.0

Number of Lamps: 6

Length(mm): 1200

Phm Type: C

Voltage(V):

Current(A):

Power (W): 75.8000

PF:

Ballast type:

Width(mm): 475

Height(mm): 100

Photometric Results

Lumens(lm): 9454.10

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 124.72

Central intensity(cd): 3367.558

Maximum intensity(cd): 3367.558

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=111.0

[C90/270]Total=93.8

Field angle(10%Imax): [C0/180]Total=169.0

[C90/270]Total=152.6

Maximum s/h(1/2): C0_180=1.23 C90_270=1.16

Maximum s/h(1/4): C0_180=1.36 C90_270=1.27

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 7.80%

Down flux rate of LUM(%): 92.20%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 72.640%

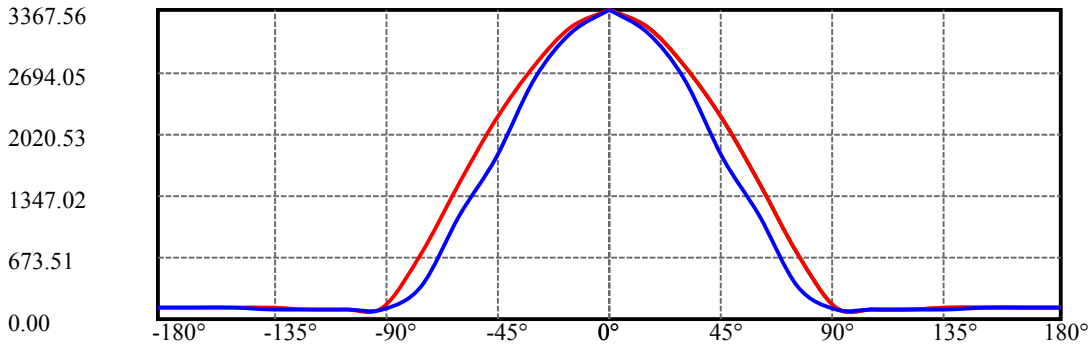
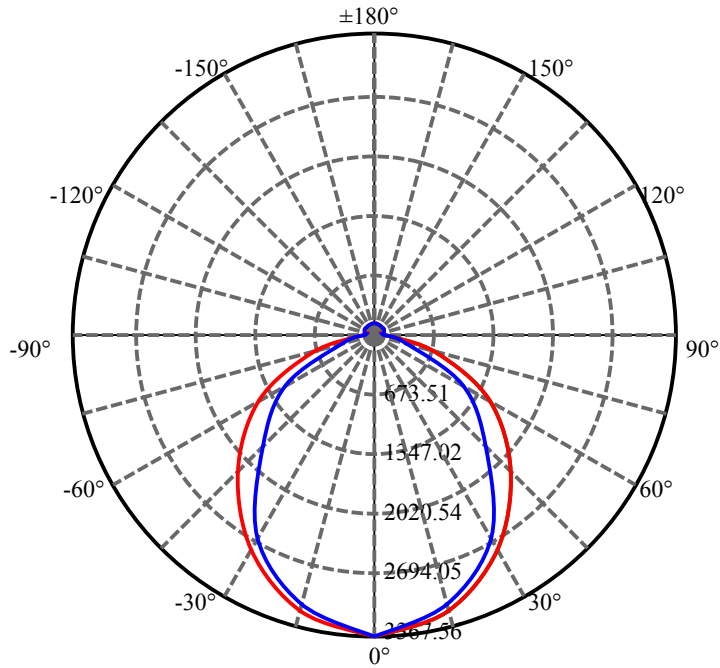
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3363.837	0.000	0	.000%	.000%
15.0	3126.918	694.817	694.817	.000%	7.349%
30.0	2660.101	1816.235	2511.052	.000%	26.560%
45.0	1933.744	2293.512	4804.564	.000%	50.820%
60.0	1236.808	2062.904	6867.468	.000%	72.640%
75.0	519.147	1330.473	8197.942	.000%	86.713%
90.0	118.464	518.444	8716.386	.000%	92.197%
105.0	113.273	188.426	8904.812	.000%	94.190%
120.0	115.999	173.717	9078.529	.000%	96.027%
135.0	117.895	152.182	9230.711	.000%	97.637%
150.0	122.524	120.031	9350.742	.000%	98.907%
165.0	123.112	77.092	9427.834	.000%	99.722%
180.0	122.291	26.270	9454.104	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2511.05	N.A.	26.56%
0-40	2511.05	N.A.	26.56%
0-60	6867.47	N.A.	72.64%
0-90	8716.39	N.A.	92.20%
0-120	9078.53	N.A.	96.03%
0-180	9454.10	N.A.	100.00%
60-90	3911.82	N.A.	41.38%
90-120	880.59	N.A.	9.31%
90-130	880.59	N.A.	9.31%
90-150	1152.80	N.A.	12.19%
90-180	1229.89	N.A.	13.01%
0-67.84	7563.28	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	0.00
10-20	694.82
20-30	1816.24
30-40	0.00
40-50	2293.51
50-60	2062.90
60-70	0.00
70-80	1330.47
80-90	518.44
90-100	0.00
100-110	188.43
110-120	173.72
120-130	0.00
130-140	152.18
140-150	120.03
150-160	0.00
160-170	77.09
170-180	0.00



C0(Max): ———

C0/C180: ———

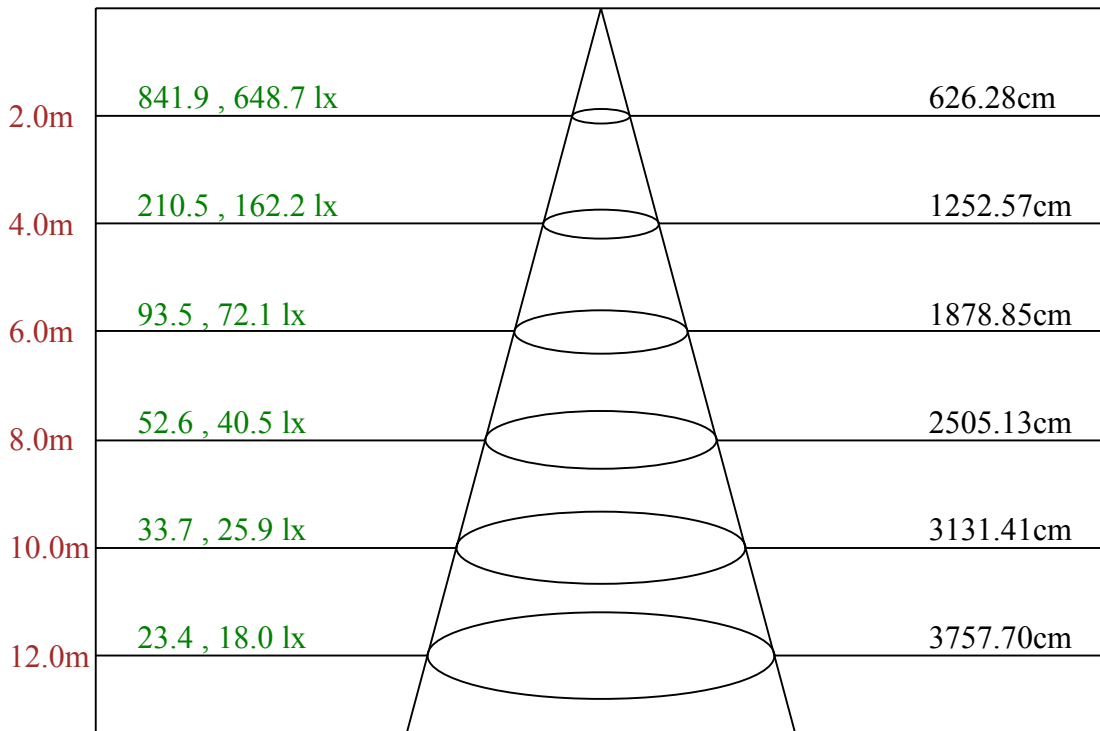
C90/C270: ———

Field angle(10%Imax):C0/180Left:84.5 Right:84.5

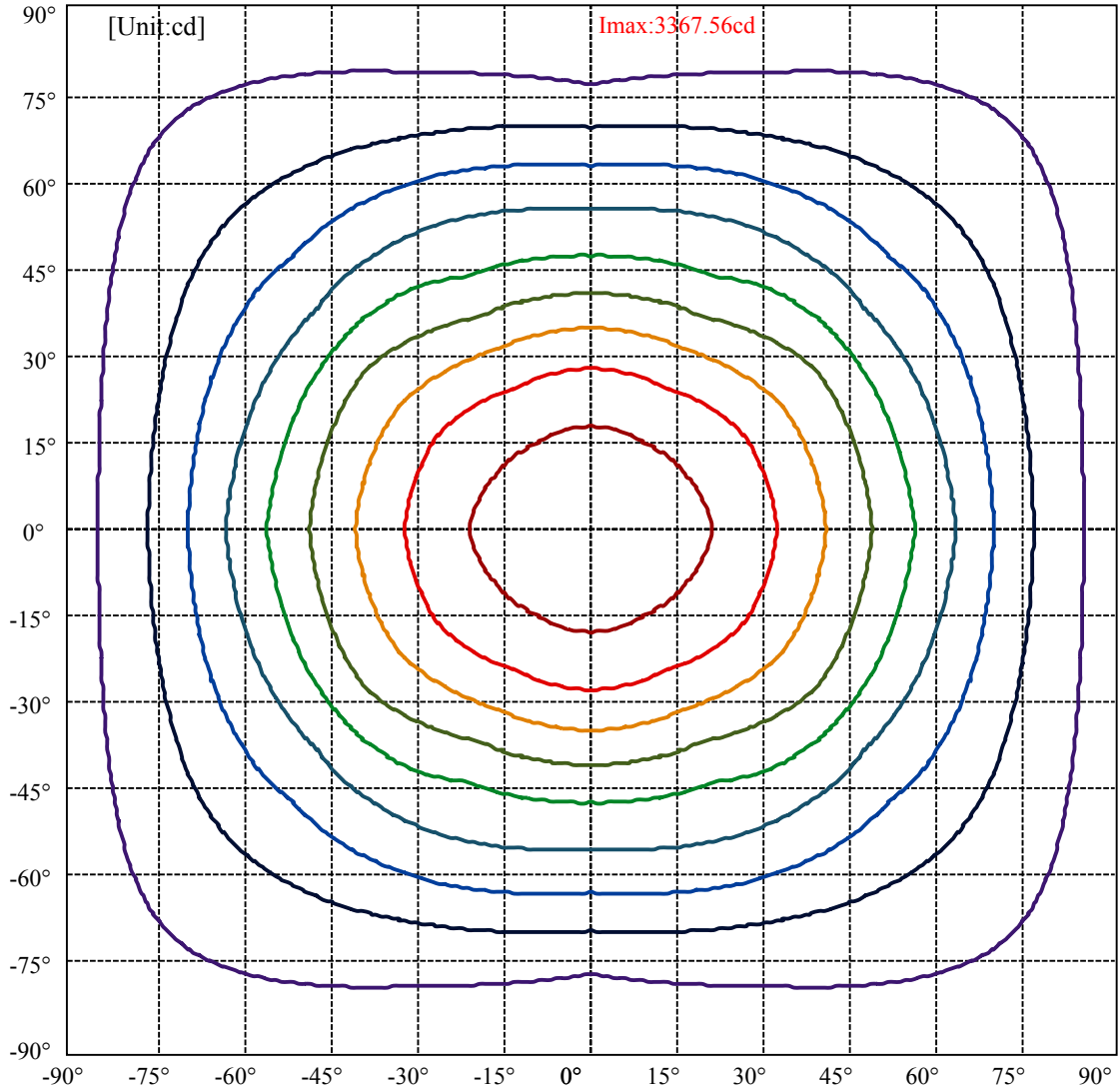
:C90/270Left:76.3 Right:76.3

Beam Angle(50%Imax):C0/180Left:55.5 Right:55.5

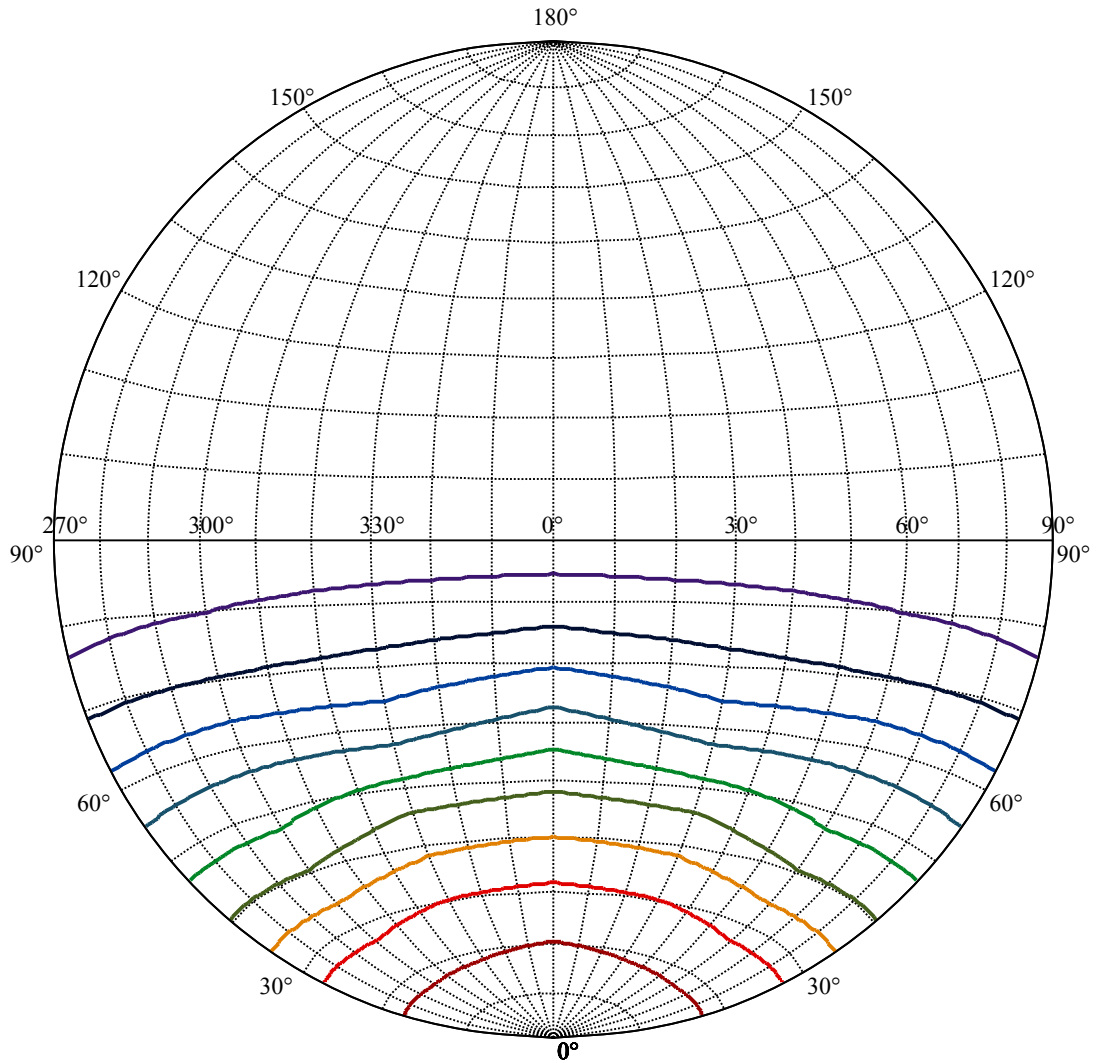
:C90/270Left:46.9 Right:46.9



Max , Ave Beam angle of C0 plane 114.87



(10%Imax) 335.942	—
(20%Imax) 671.885	—
(30%Imax) 1007.83	—
(40%Imax) 1343.77	—
(50%Imax) 1679.71	—
(60%Imax) 2015.65	—
(70%Imax) 2351.6	—
(80%Imax) 2687.54	—
(90%Imax) 3023.48	—



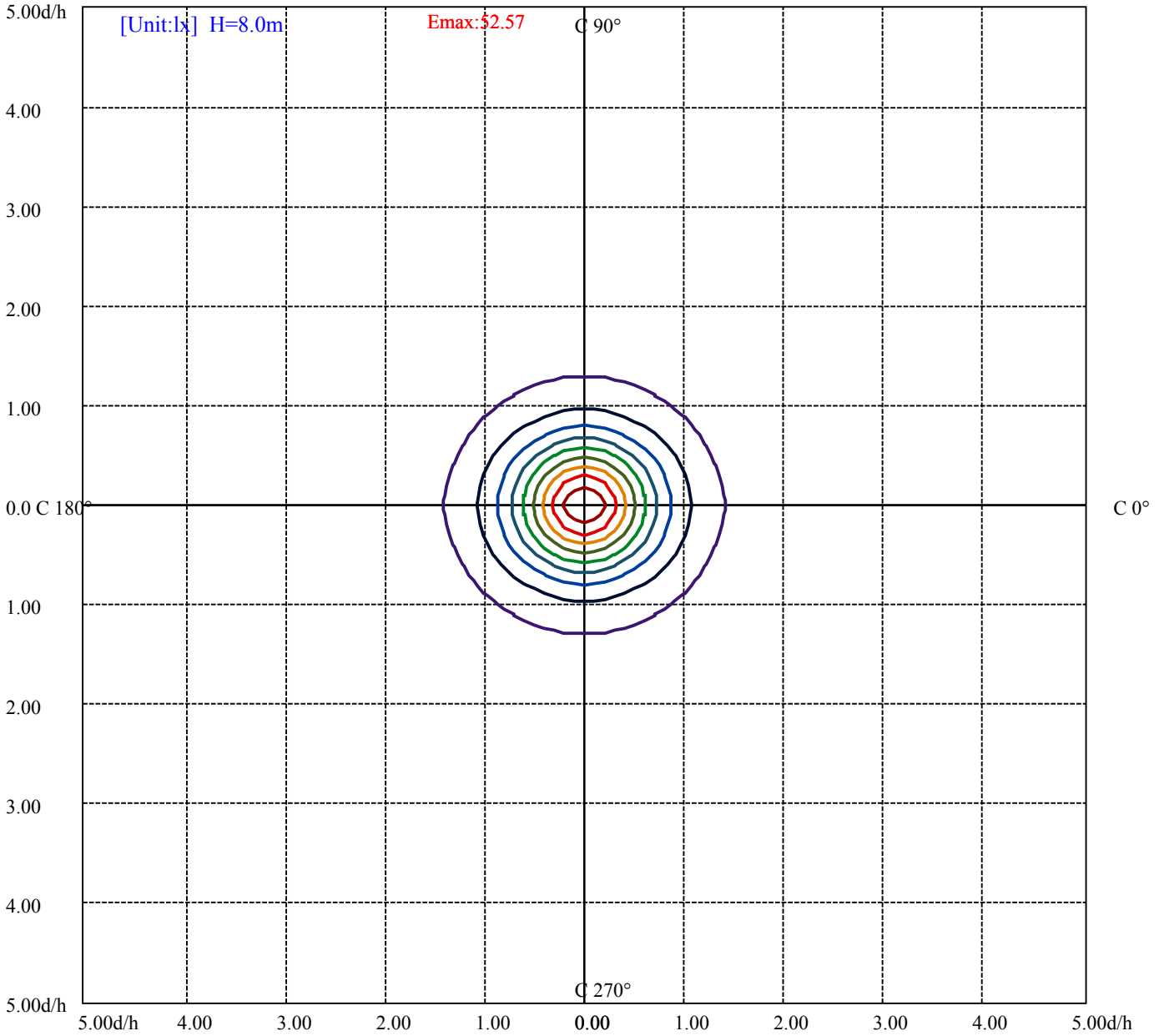
House

[Unit:cd]

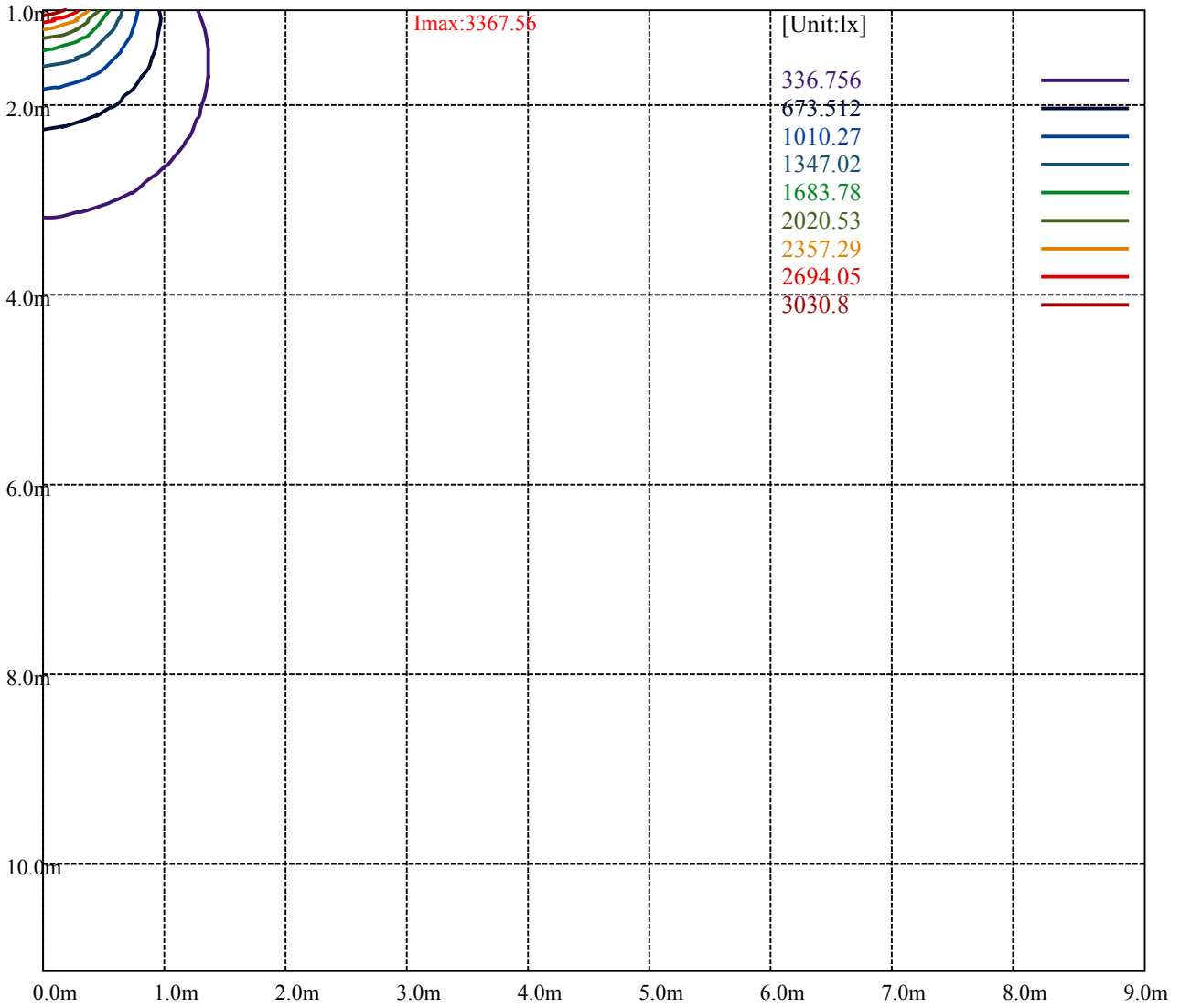
Road

I_{max}:3367.56

(10%I _{max}) 336.756	—
(20%I _{max}) 673.512	—
(30%I _{max}) 1010.27	—
(40%I _{max}) 1347.02	—
(50%I _{max}) 1683.78	—
(60%I _{max}) 2020.53	—
(70%I _{max}) 2357.29	—
(80%I _{max}) 2694.05	—
(90%I _{max}) 3030.8	—



- (10%Emax) 5.257078
- (20%Emax) 10.51414
- (30%Emax) 15.77125
- (40%Emax) 21.02828
- (50%Emax) 26.28531
- (60%Emax) 31.5425
- (70%Emax) 36.79953
- (80%Emax) 42.05656
- (90%Emax) 47.31359



Luminance Table

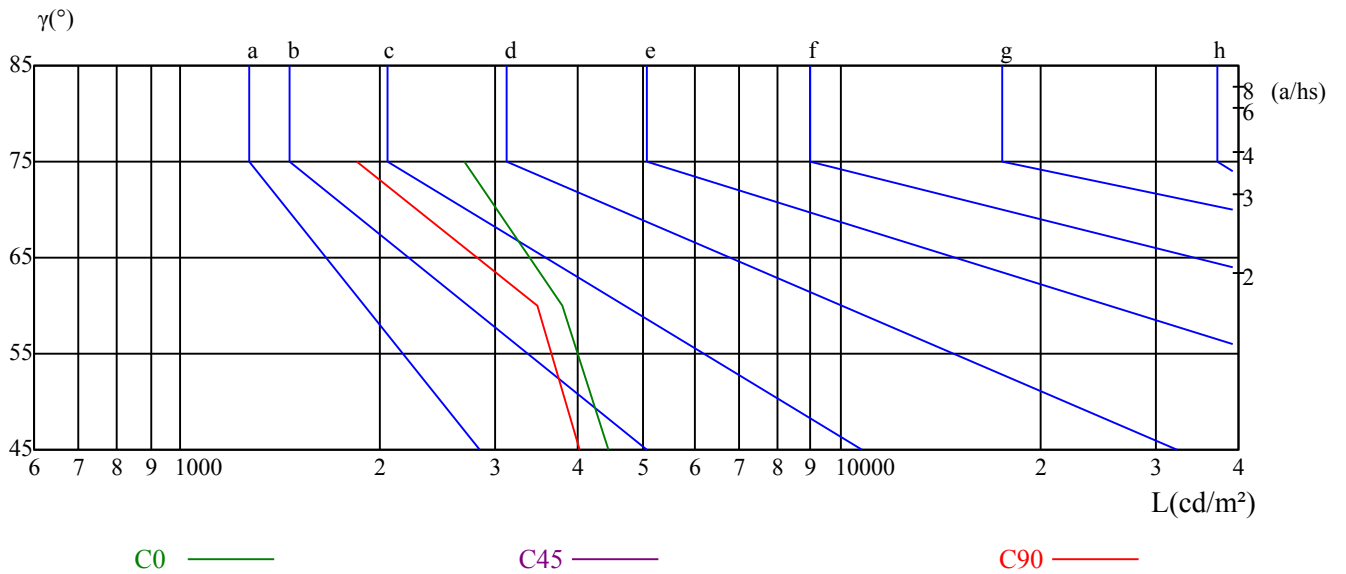
γ	45	50	55	60	65	70	75	80	85
C0	4438	0	0	3798	0	0	2695	0	0
C45	0	0	0	0	0	0	0	0	0
C90	4029	0	0	3461	0	0	1849	0	0

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	4813	2424	0	0	0	0

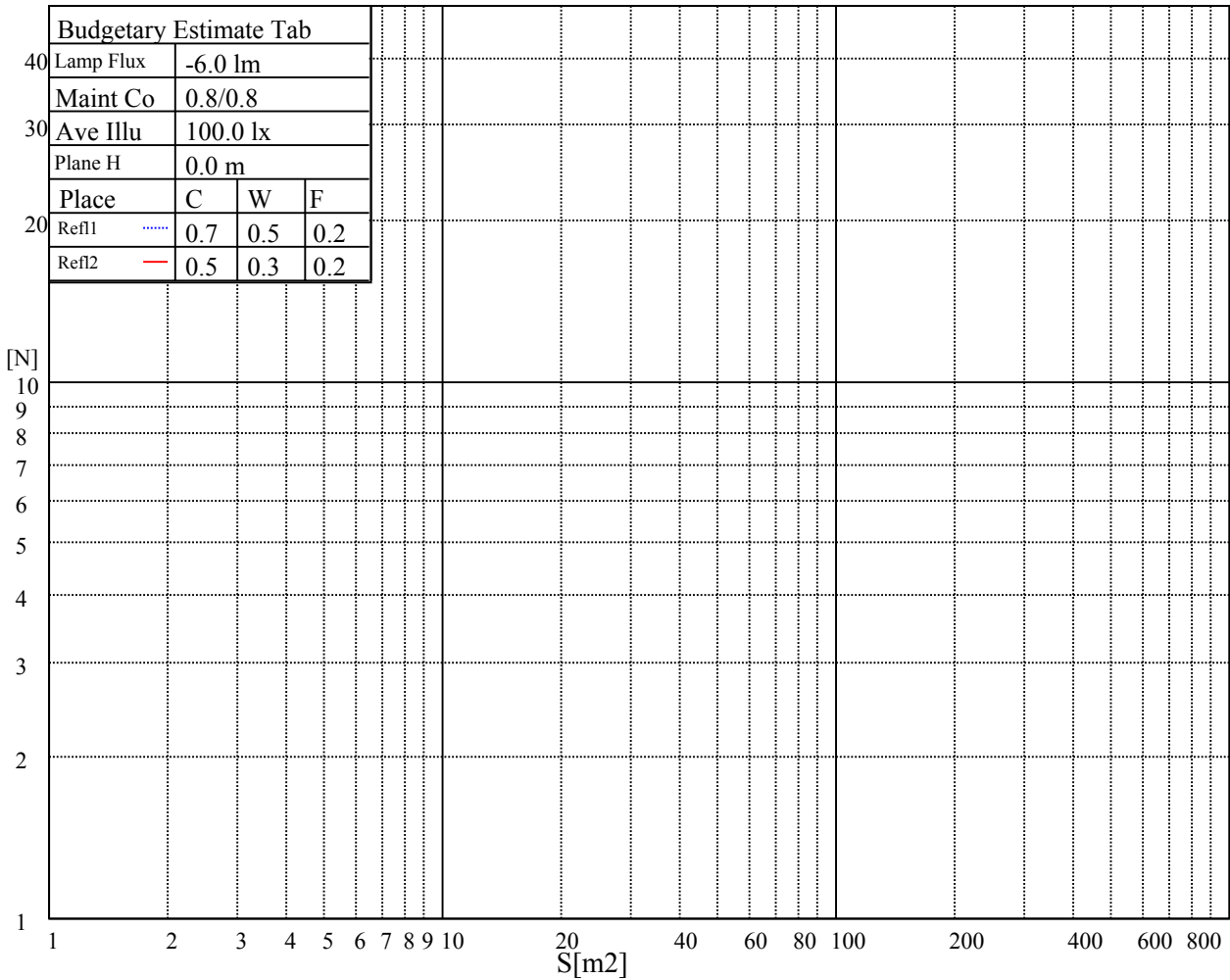
Glare Table

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

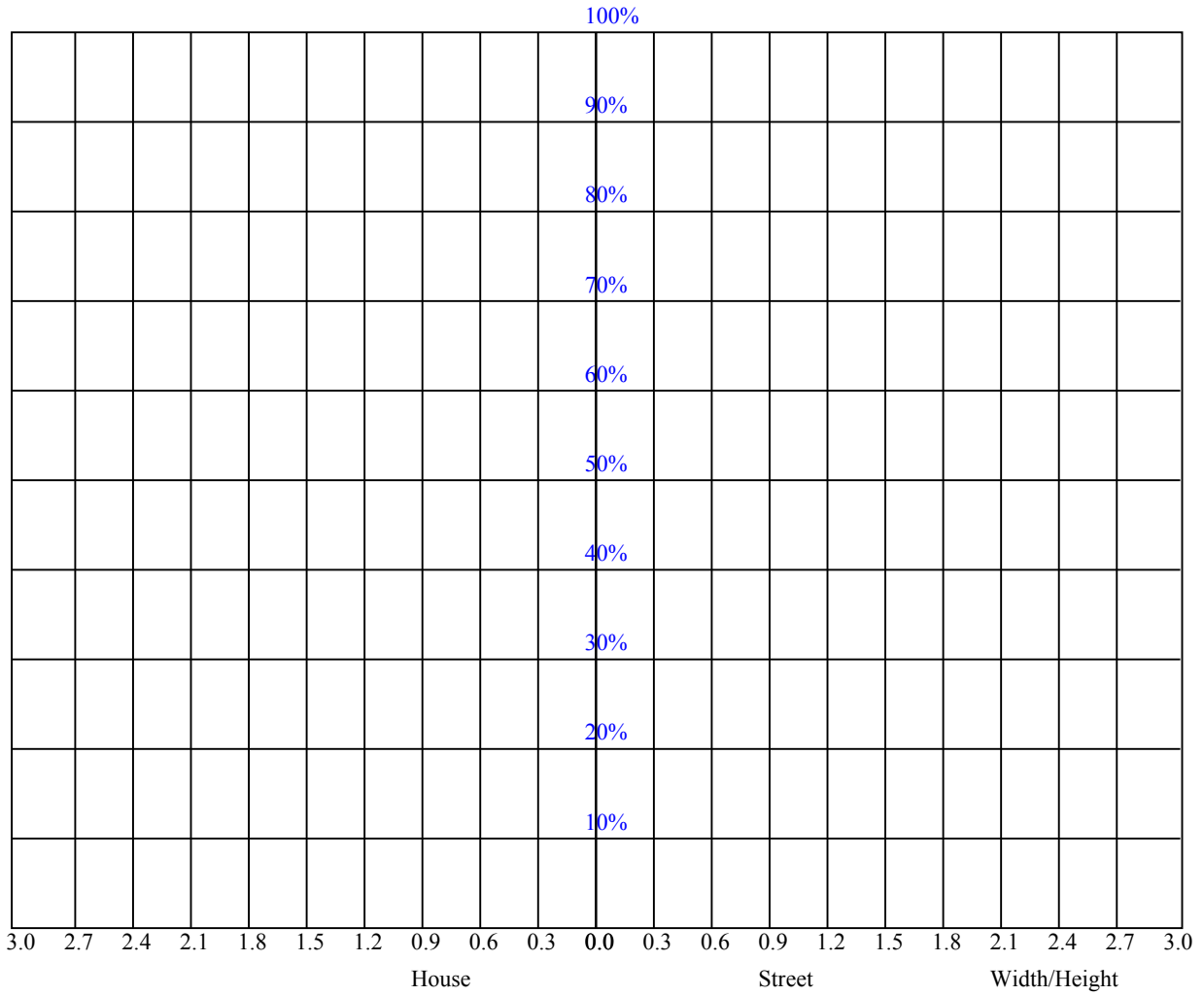
Luminance Limiting Curve



Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	7.85	9.30	8.34	9.77	10.28	8.55	9.99	9.03	10.46	10.97
	3H	9.23	10.53	9.73	11.02	11.57	10.19	11.50	10.70	11.99	12.54
	4H	9.59	10.82	10.11	11.32	11.89	10.83	12.07	11.36	12.57	13.13
	6H	9.91	11.05	10.44	11.57	12.15	11.37	12.52	11.91	13.03	13.61
	8H	10.06	11.15	10.61	11.69	12.26	11.58	12.67	12.13	13.21	13.78
	12H	10.32	11.36	10.87	11.89	12.51	11.86	12.91	12.41	13.44	14.05
4H	2H	8.35	9.59	8.88	10.09	10.65	8.93	10.16	9.45	10.66	11.23
	3H	9.92	10.96	10.46	11.51	12.09	10.76	11.80	11.29	12.34	12.93
	4H	10.38	11.32	10.93	11.88	12.50	11.53	12.47	12.08	13.02	13.64
	6H	10.70	11.54	11.30	12.13	12.76	12.07	12.91	12.67	13.50	14.13
	8H	10.94	11.71	11.52	12.29	12.94	12.38	13.15	12.96	13.73	14.37
	12H	11.23	11.93	11.84	12.54	13.19	12.70	13.40	13.30	14.01	14.66
8H	4H	10.65	11.42	11.23	12.00	12.64	11.69	12.46	12.27	13.04	13.69
	6H	11.13	12.40	11.75	12.40	13.05	12.40	13.67	13.01	13.67	14.32
	8H	11.44	12.02	12.07	12.65	13.32	12.78	13.35	13.40	13.99	14.65
	12H	12.08	12.59	12.71	13.72	13.95	13.36	13.87	13.99	15.00	15.23
12H	4H	10.69	11.38	11.29	11.99	12.64	11.70	12.39	12.30	13.00	13.65
	6H	12.11	11.81	11.86	12.41	13.12	13.33	13.02	13.08	13.62	14.33
	8H	11.59	12.10	12.21	12.72	13.45	12.87	13.38	13.49	14.00	14.73
Variation with the observer position at spacings:											
S = 1.0H	0.3/-0.4					0.3/-0.6					
S = 1.5H	0.6/-0.8					0.6/-0.6					
S = 2.0H	0.8/-1.0					0.8/-0.7					
Standard tables:	BK4					BK3					
Uncorrected UGR	1.9					2.4					



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	3367.56	3205.56	2798.68	2209.99	1486.27	723.40	122.06	113.95	114.63
30.0	3367.56	3132.89	2734.16	2006.87	1185.77	617.74	122.06	113.95	114.63
60.0	3361.50	3132.89	2556.72	1787.50	1275.11	479.56	122.06	113.95	114.63
90.0	3359.42	3116.74	2580.34	1738.75	1120.80	349.51	113.92	113.95	114.63
120.0	3359.42	3100.59	2451.87	1722.50	1202.01	414.53	113.92	105.81	114.63
150.0	3367.56	3124.82	2709.96	2006.87	1177.65	601.48	122.06	113.95	114.63
180.0	3367.56	3173.26	2734.16	2120.62	1467.64	696.77	119.61	113.95	114.63
210.0	3367.56	3124.82	2677.70	2128.74	1185.77	552.71	113.92	113.95	114.63
240.0	3361.50	3070.31	2620.33	1746.87	1199.62	428.54	113.92	113.95	114.63
270.0	3359.42	3107.66	2629.31	1779.37	1137.04	365.77	113.92	113.95	114.63
300.0	3359.42	3108.67	2742.22	1811.87	1193.89	430.79	122.06	113.95	122.82
330.0	3367.56	3124.82	2685.76	2144.99	1210.13	568.97	122.06	113.95	122.82
360.0	3367.56	3205.56	2798.68	2209.99	1486.27	723.40	122.06	113.95	114.63
C/γ(°)	135.0	150.0	165.0	180.0					
0.0	122.67	122.52	122.43	122.29					
30.0	114.49	122.52	130.60	122.29					
60.0	122.67	122.52	122.43	122.29					
90.0	114.49	122.52	122.43	122.29					
120.0	114.49	122.52	122.43	122.29					
150.0	114.49	122.52	122.43	122.29					
180.0	114.49	122.52	122.43	122.29					
210.0	114.49	122.52	122.43	122.29					
240.0	122.67	122.52	122.43	122.29					
270.0	114.49	122.52	122.43	122.29					
300.0	122.67	122.52	122.43	122.29					
330.0	122.67	122.52	122.43	122.29					
360.0	122.67	122.52	122.43	122.29					