
PQL 91329 LED 16.5WT8/50K/SC/V5

LumCAT: /
Luminaire: /
Report No: SL/BG6-172568-03
Test No:
LampCAT: 16.5WT8/50K/SC/V5
Lamp flux(lm): -1.0
Number of Lamps: 6
Length(mm): 1200
Phm Type: C

Voltage(V):
Current(A):
Power (W): 100.5000
PF:
Ballast type:
Width(mm): 475
Height(mm): 100

Photometric Results

Lumens(lm): 11534.01
Efficiency(%): 0.00%
Lumens(lm)/Power(W): 114.77
Central intensity(cd): 4108.421
Maximum intensity(cd): 4108.421
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%

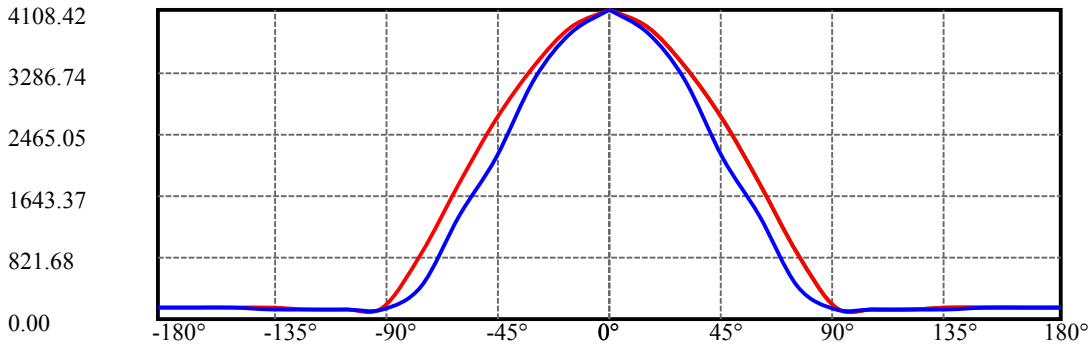
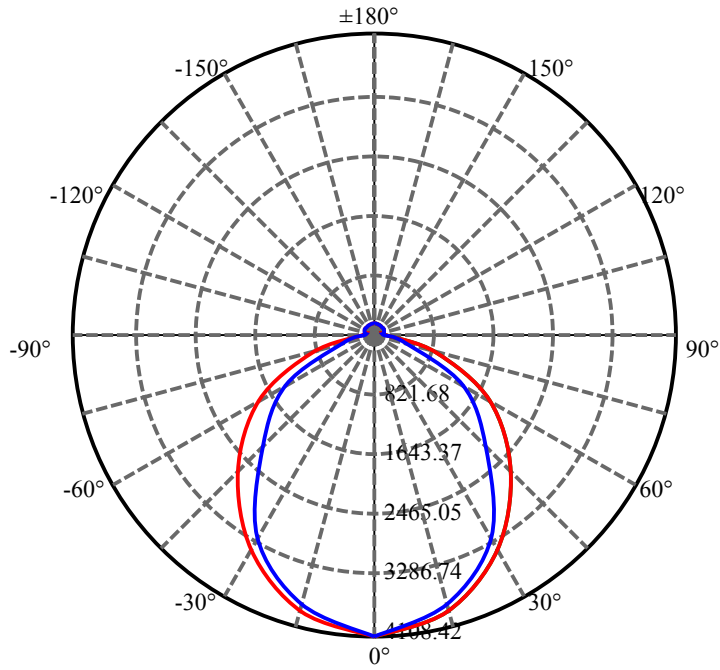
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4103.881	0.000	0	.000%	.000%
15.0	3814.840	847.677	847.677	.000%	7.349%
30.0	3245.323	2215.807	3063.484	.000%	26.560%
45.0	2359.168	2798.084	5861.568	.000%	50.820%
60.0	1508.906	2516.743	8378.311	.000%	72.640%
75.0	633.359	1623.178	10001.489	.000%	86.713%
90.0	144.527	632.502	10633.991	.000%	92.197%
105.0	138.193	229.880	10863.871	.000%	94.190%
120.0	141.518	211.934	11075.805	.000%	96.027%
135.0	143.832	185.661	11261.466	.000%	97.637%
150.0	149.479	146.438	11407.904	.000%	98.907%
165.0	150.197	94.052	11501.956	.000%	99.722%
180.0	149.195	32.049	11534.005	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3063.48	N.A.	26.56%
0-40	3063.48	N.A.	26.56%
0-60	8378.31	N.A.	72.64%
0-90	10633.99	N.A.	92.20%
0-120	11075.81	N.A.	96.03%
0-180	11534.01	N.A.	100.00%
60-90	4772.42	N.A.	41.38%
90-120	1074.32	N.A.	9.31%
90-130	1074.32	N.A.	9.31%
90-150	1406.42	N.A.	12.19%
90-180	1500.47	N.A.	13.01%
0-67.84	9227.20	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	0.00
10-20	847.68
20-30	2215.81
30-40	0.00
40-50	2798.08
50-60	2516.74
60-70	0.00
70-80	1623.18
80-90	632.50
90-100	0.00
100-110	229.88
110-120	211.93
120-130	0.00
130-140	185.66
140-150	146.44
150-160	0.00
160-170	94.05
170-180	0.00



C0(Max): ———

C0/C180: ———

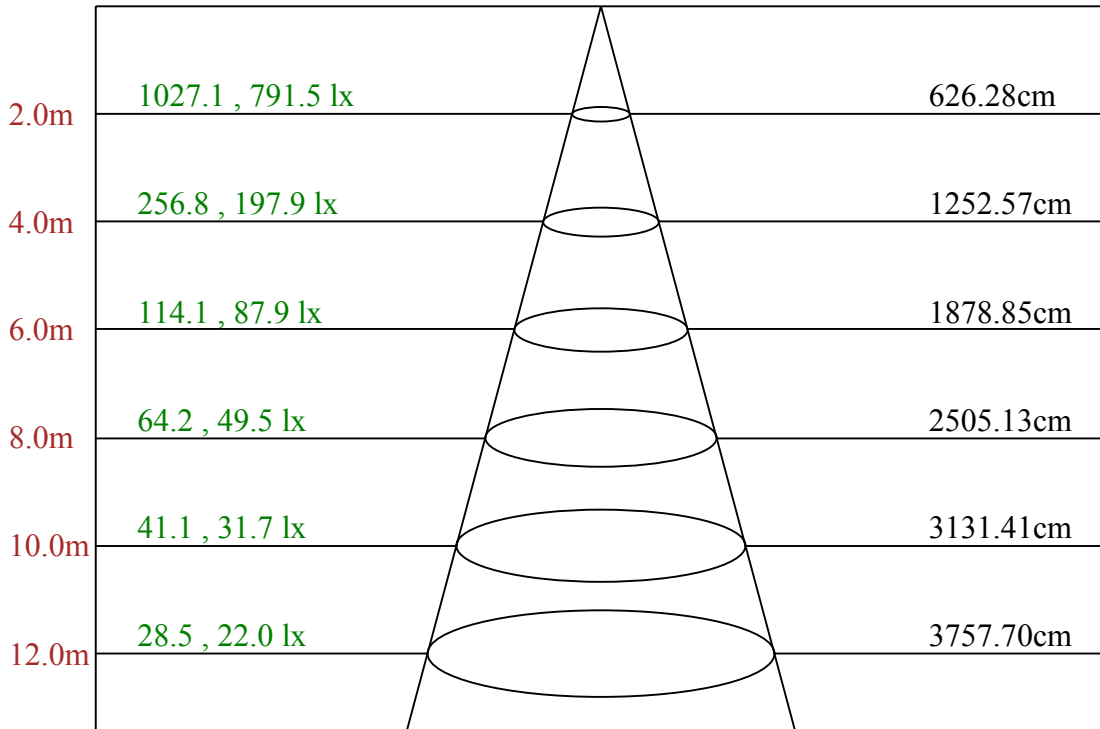
C90/C270: ———

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

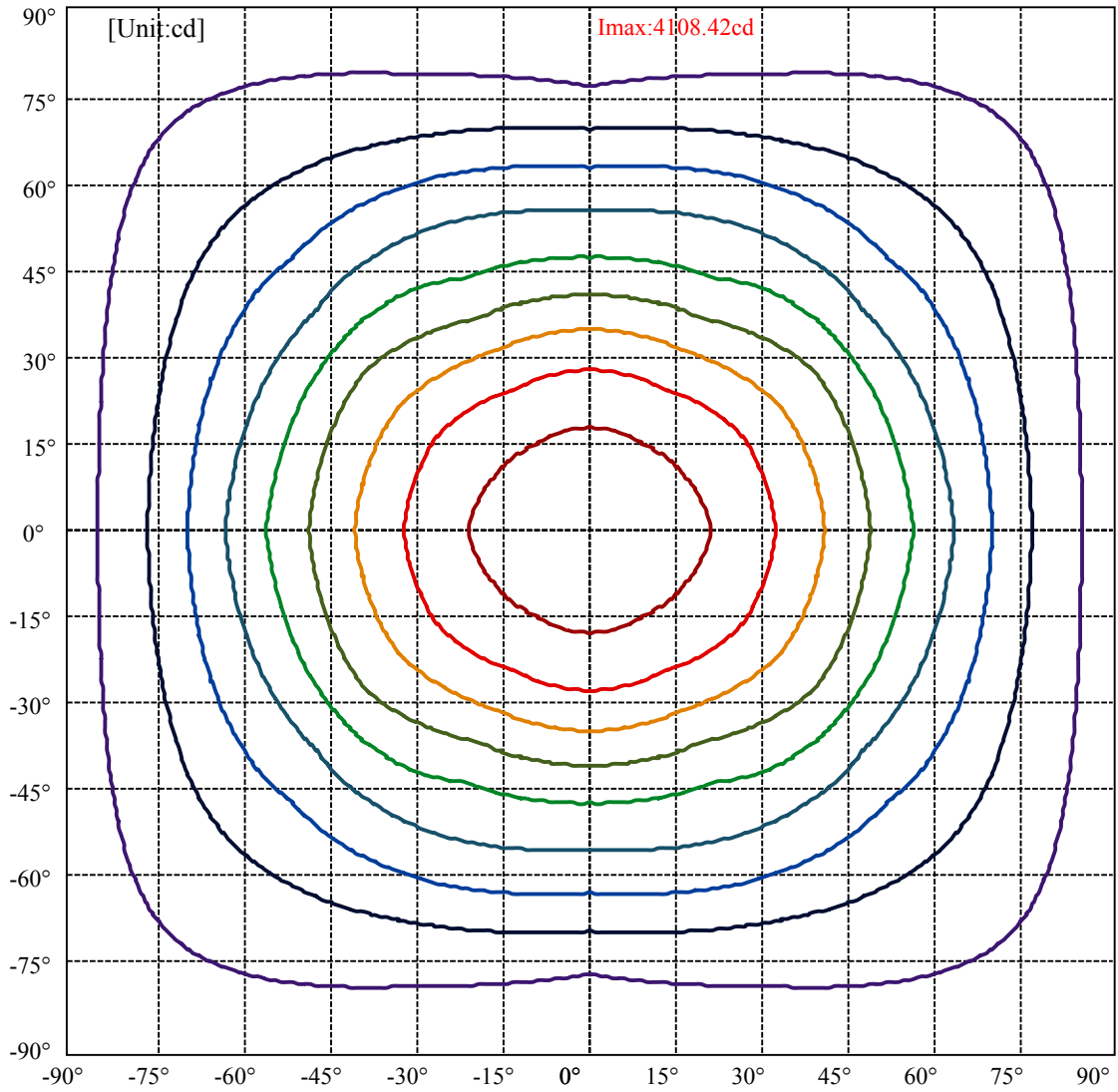
:C90/270Left:76.3 Right:76.3

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

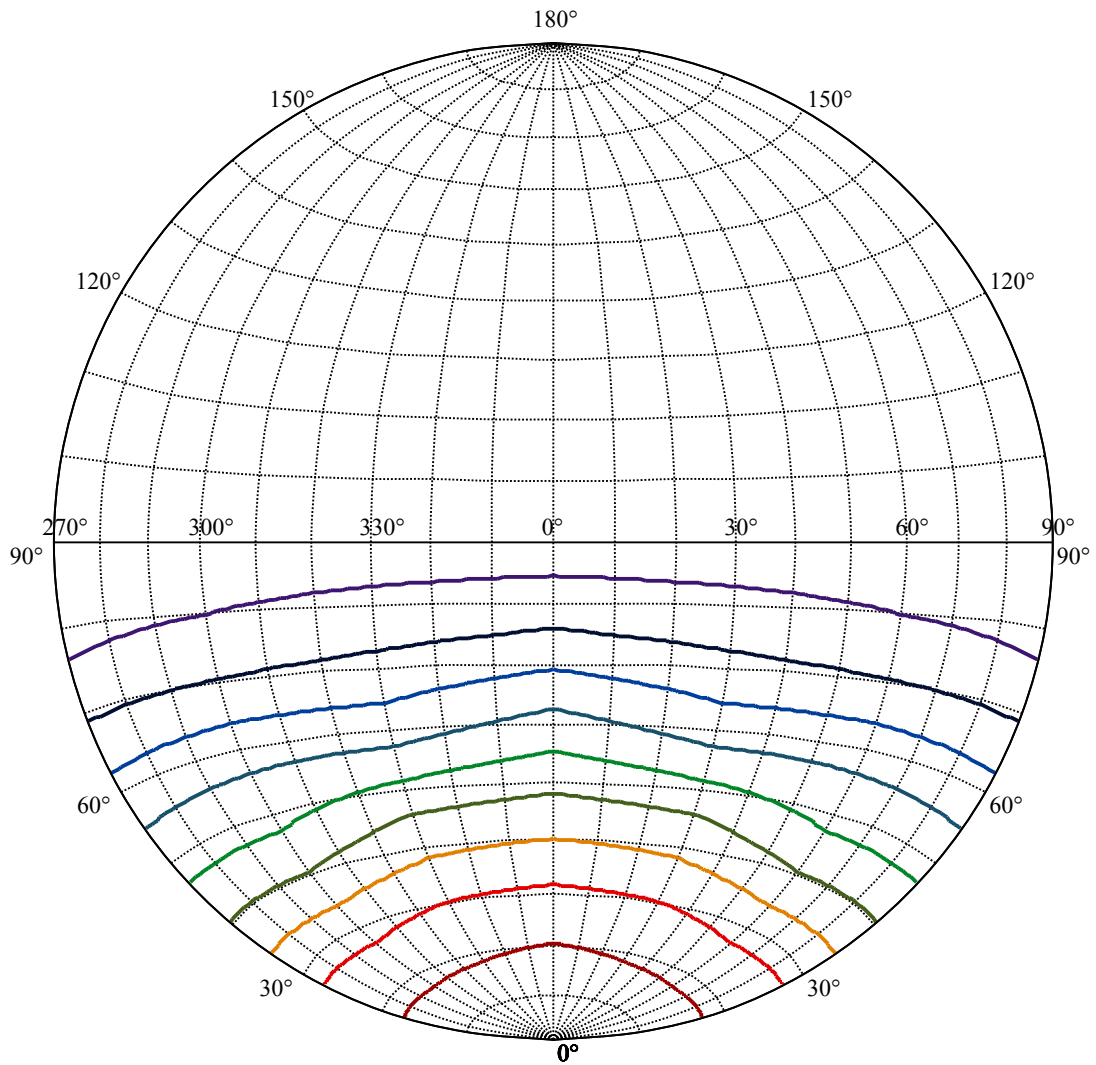
:C90/270Left:46.9 Right:46.9



Max , Ave Beam angle of C0 plane 114.87



(10%Imax) 409.85	—
(20%Imax) 819.699	—
(30%Imax) 1229.55	—
(40%Imax) 1639.4	—
(50%Imax) 2049.25	—
(60%Imax) 2459.1	—
(70%Imax) 2868.95	—
(80%Imax) 3278.8	—
(90%Imax) 3688.65	—



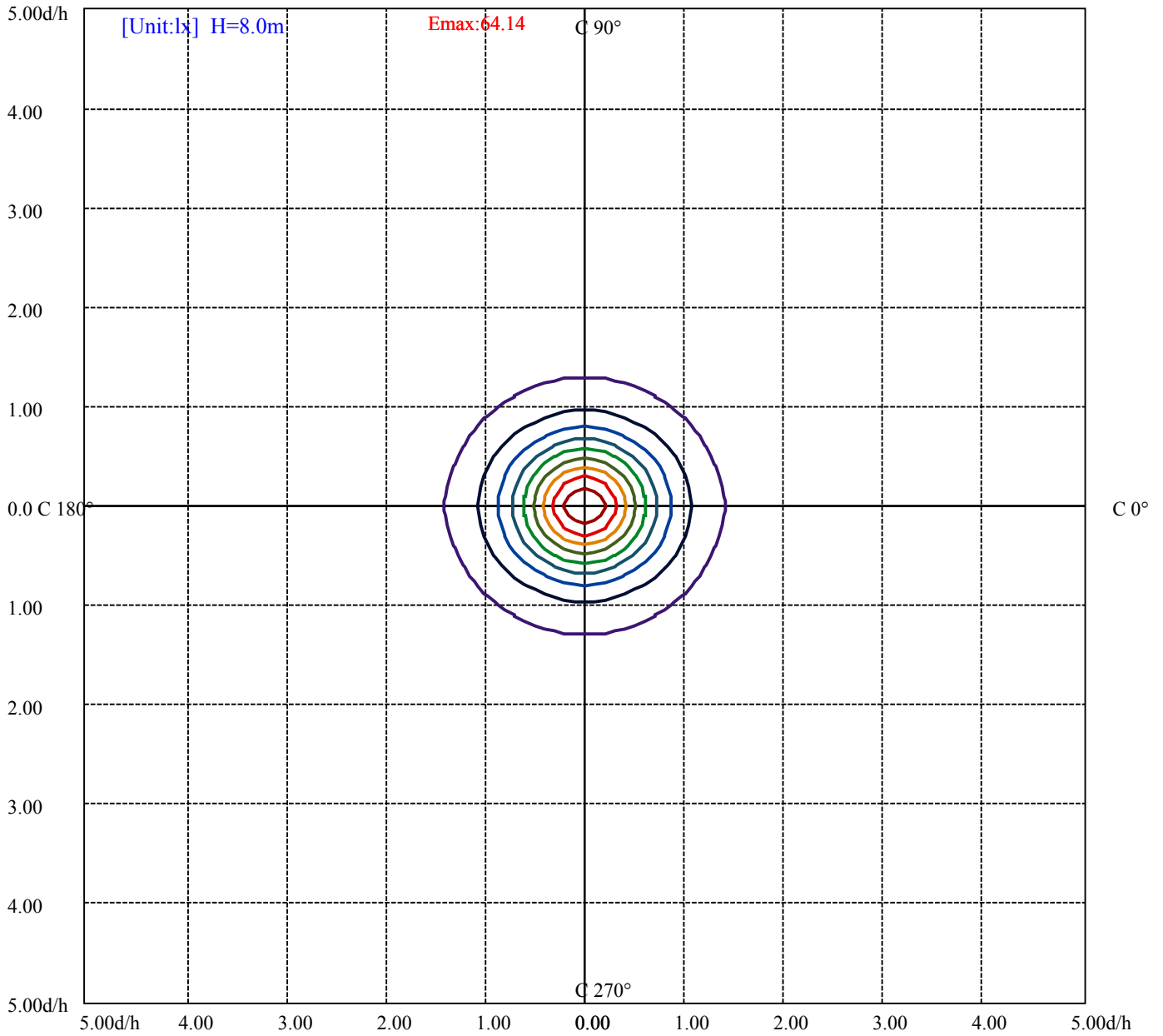
House

[Unit:cd]

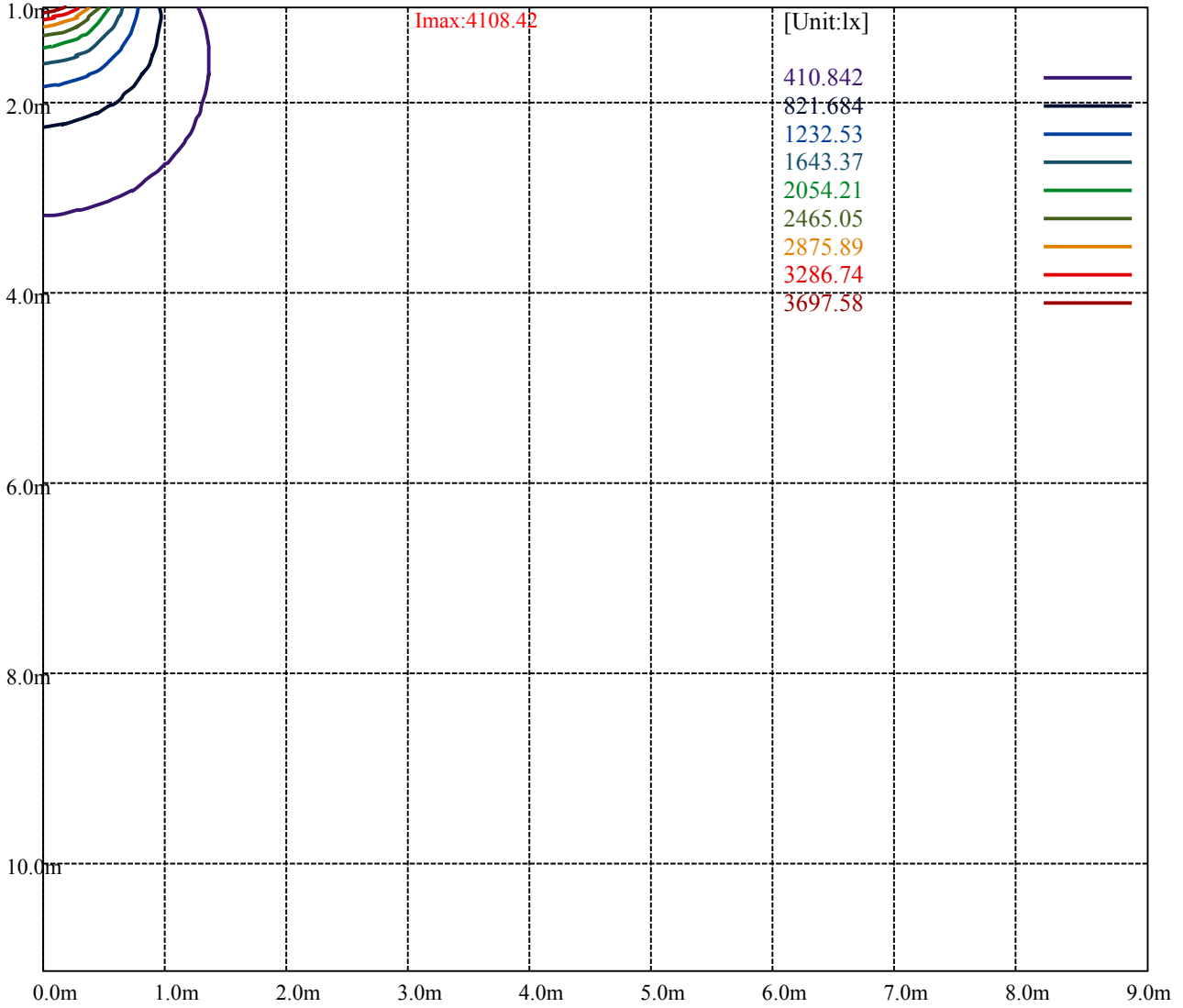
Road

Imax:4108.42

(10%Imax) 410.842	
(20%Imax) 821.684	
(30%Imax) 1232.53	
(40%Imax) 1643.37	
(50%Imax) 2054.21	
(60%Imax) 2465.05	
(70%Imax) 2875.89	
(80%Imax) 3286.74	
(90%Imax) 3697.58	



(10%Emax)	6.413625	—
(20%Emax)	12.82725	—
(30%Emax)	19.24094	—
(40%Emax)	25.65453	—
(50%Emax)	32.06813	—
(60%Emax)	38.48172	—
(70%Emax)	44.89547	—
(80%Emax)	51.30906	—
(90%Emax)	57.72266	—



Luminance Table

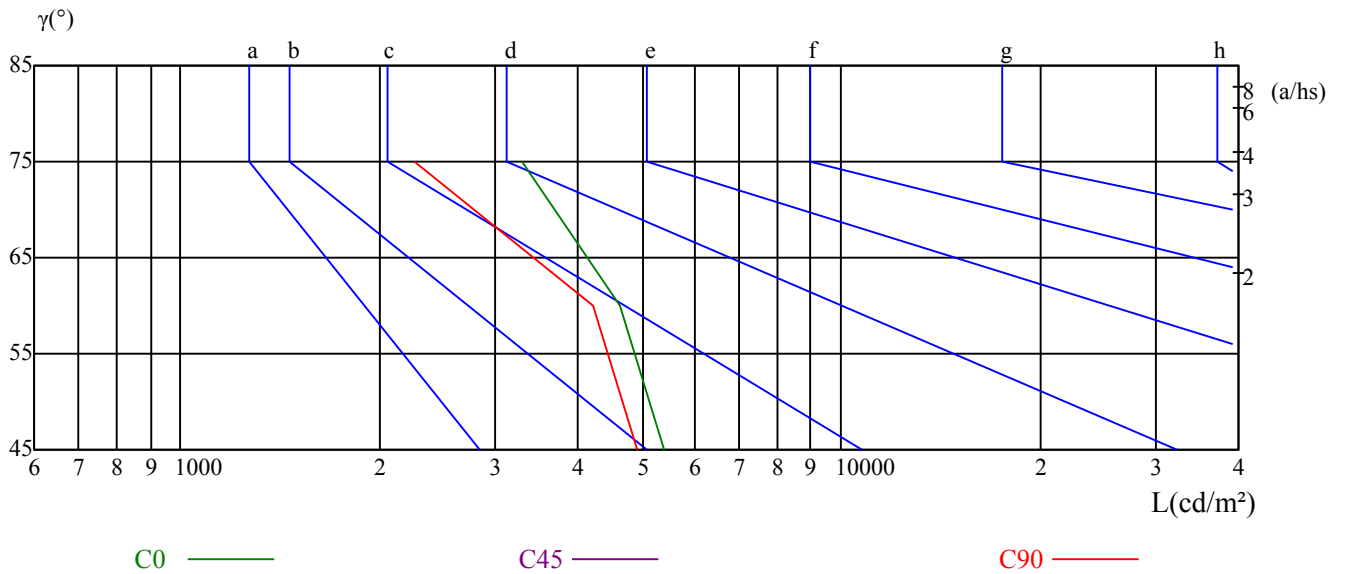
γ	45	50	55	60	65	70	75	80	85
C0	5414	0	0	4633	0	0	3288	0	0
C45	0	0	0	0	0	0	0	0	0
C90	4915	0	0	4223	0	0	2256	0	0

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	5872	2958	0	0	0	0

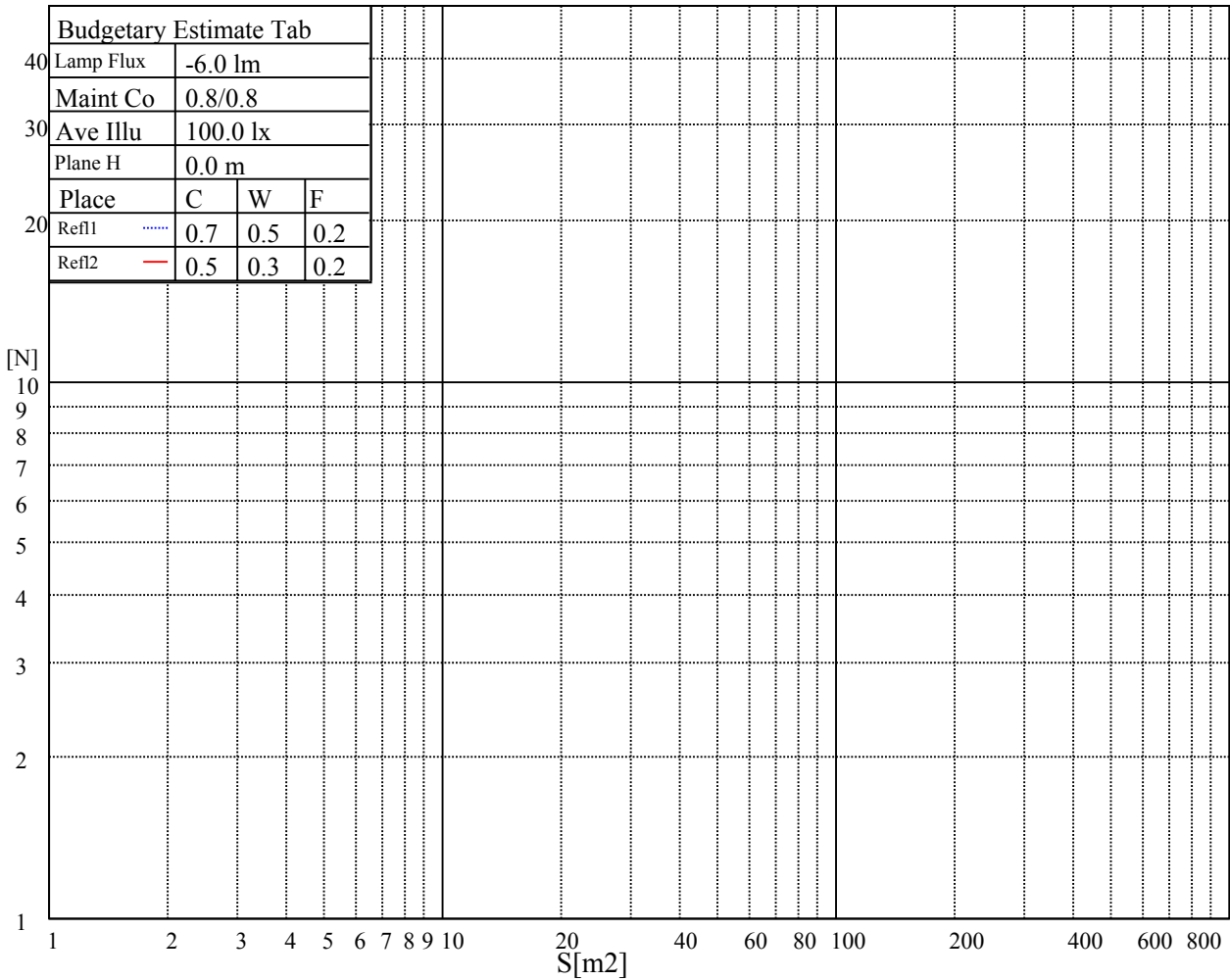
Glare Table

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

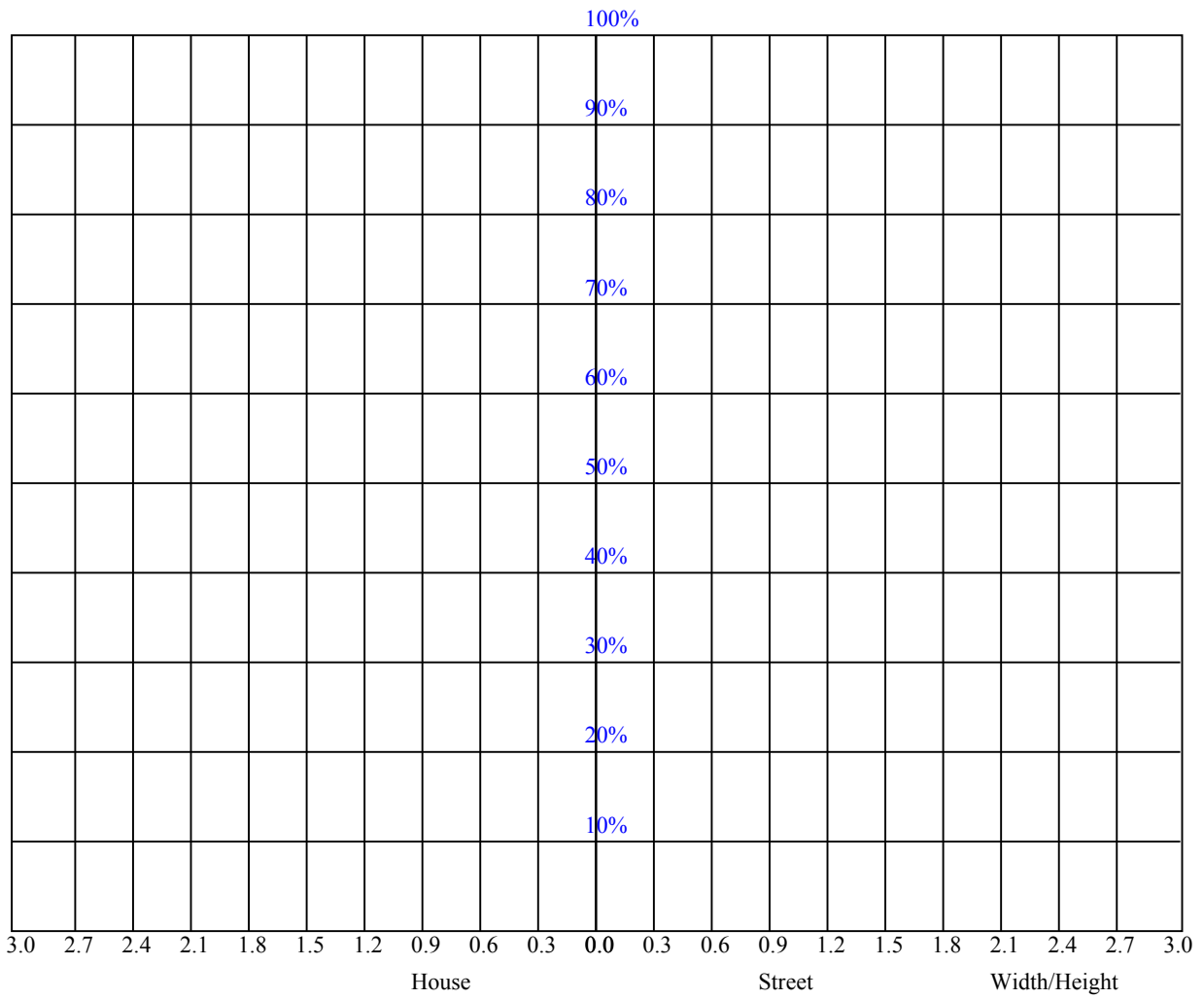
Luminance Limiting Curve



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	2.6					3.1					



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	4108.42	3910.78	3414.39	2696.19	1813.25	882.55	148.91	139.02	139.85
30.0	4108.42	3822.13	3335.67	2448.38	1446.64	753.64	148.91	139.02	139.85
60.0	4101.03	3822.13	3119.20	2180.74	1555.63	585.06	148.91	139.02	139.85
90.0	4098.50	3802.42	3148.02	2121.27	1367.37	426.40	138.99	139.02	139.85
120.0	4098.50	3782.72	2991.28	2101.44	1466.46	505.73	138.99	129.09	139.85
150.0	4108.42	3812.28	3306.15	2448.38	1436.73	733.81	148.91	139.02	139.85
180.0	4108.42	3871.38	3335.67	2587.16	1790.52	850.06	145.92	139.02	139.85
210.0	4108.42	3812.28	3266.79	2597.07	1446.64	674.31	138.99	139.02	139.85
240.0	4101.03	3745.78	3196.81	2131.18	1463.54	522.82	138.99	139.02	139.85
270.0	4098.50	3791.34	3207.76	2170.83	1387.19	446.23	138.99	139.02	139.85
300.0	4098.50	3792.57	3345.51	2210.48	1456.55	525.56	148.91	139.02	149.84
330.0	4108.42	3812.28	3276.63	2616.89	1476.36	694.14	148.91	139.02	149.84
360.0	4108.42	3910.78	3414.39	2696.19	1813.25	882.55	148.91	139.02	139.85
C/γ(°)	135.0	150.0	165.0	180.0					
0.0	149.65	149.48	149.37	149.20					
30.0	139.68	149.48	159.33	149.20					
60.0	149.65	149.48	149.37	149.20					
90.0	139.68	149.48	149.37	149.20					
120.0	139.68	149.48	149.37	149.20					
150.0	139.68	149.48	149.37	149.20					
180.0	139.68	149.48	149.37	149.20					
210.0	139.68	149.48	149.37	149.20					
240.0	149.65	149.48	149.37	149.20					
270.0	139.68	149.48	149.37	149.20					
300.0	149.65	149.48	149.37	149.20					
330.0	149.65	149.48	149.37	149.20					
360.0	149.65	149.48	149.37	149.20					