
PQL 91319 LED SMD 45.8" 25.5WT5/50K/SC/V5

LumCAT: /
Luminaire: /
Report No: SL/BG6-172568-03
Test No:
LampCAT: 25.5WT5/50K/SC/V5
Lamp flux(lm): -1.0
Number of Lamps: 4
Length(mm): 1200
Phm Type: C

Voltage(V):
Current(A):
Power (W): 121.3000
PF:
Ballast type:
Width(mm): 320
Height(mm): 100

Photometric Results

Lumens(lm): 13546.21
Efficiency(%): 0.00%
Lumens(lm)/Power(W): 111.68
Central intensity(cd): 4402.017
Maximum intensity(cd): 4945.695
Angle of maximum intensity: C=90.0 γ =15.0
Beam Angle(50%Imax): [C0/180]Total=108.4
 [C90/270]Total=92.0
Field angle(10%Imax): [C0/180]Total=168.2
 [C90/270]Total=161.8
Maximum s/h(1/2): C0_180=1.23 C90_270=1.12
Maximum s/h(1/4): C0_180=1.35 C90_270=1.30
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 0.00%
Up flux rate of LUM(%): 7.76%
Down flux rate of LUM(%): 92.24%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 72.534%

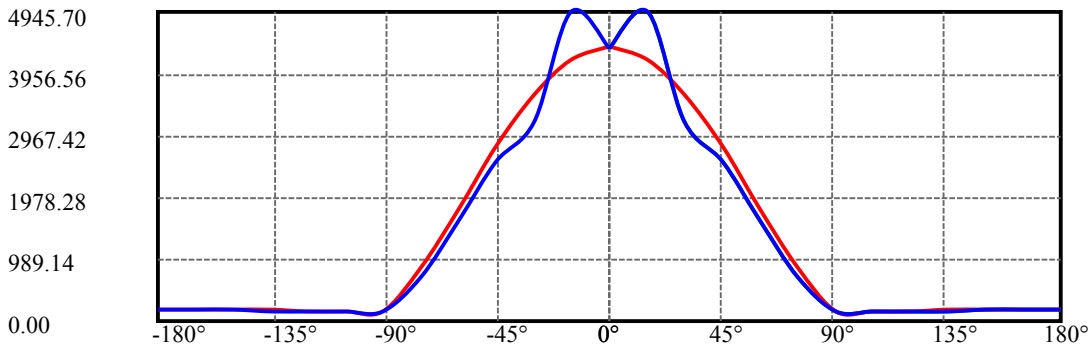
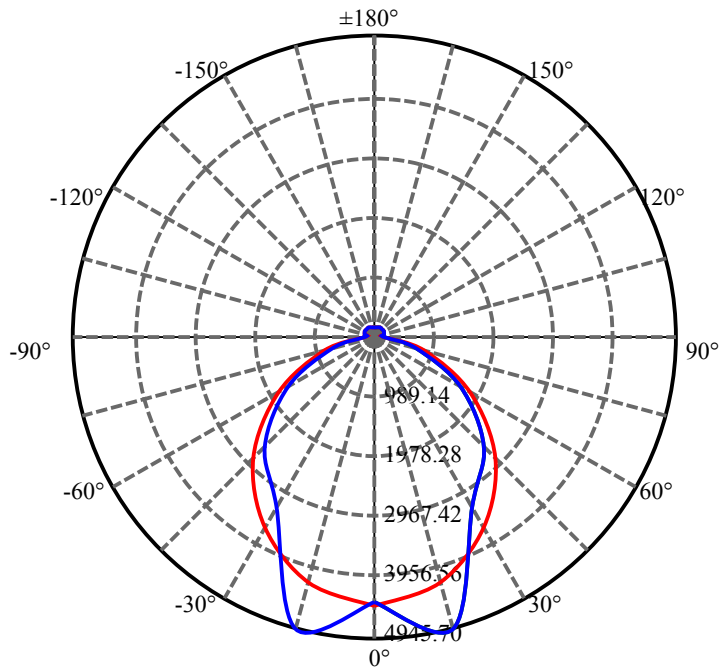
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4392.464	0.000	0	.000%	.000%
15.0	4601.411	962.769	962.769	.000%	7.107%
30.0	3872.088	2659.377	3622.146	.000%	26.739%
45.0	2728.246	3295.266	6917.413	.000%	51.065%
60.0	1741.401	2908.154	9825.567	.000%	72.534%
75.0	773.690	1905.665	11731.232	.000%	86.602%
90.0	165.098	763.332	12494.564	.000%	92.237%
105.0	161.145	265.270	12759.834	.000%	94.195%
120.0	166.730	248.428	13008.262	.000%	96.029%
135.0	171.347	219.968	13228.23	.000%	97.653%
150.0	172.129	171.483	13399.713	.000%	98.919%
165.0	174.998	108.945	13508.658	.000%	99.723%
180.0	175.775	37.549	13546.207	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3622.15	N.A.	26.74%
0-40	3622.15	N.A.	26.74%
0-60	9825.57	N.A.	72.53%
0-90	12494.56	N.A.	92.24%
0-120	13008.26	N.A.	96.03%
0-180	13546.21	N.A.	100.00%
60-90	5577.15	N.A.	41.17%
90-120	1277.03	N.A.	9.43%
90-130	1277.03	N.A.	9.43%
90-150	1668.48	N.A.	12.32%
90-180	1777.43	N.A.	13.12%
0-67.96	10836.97	N.A.	80.00%

ZONAL LUMEN SUMMARY

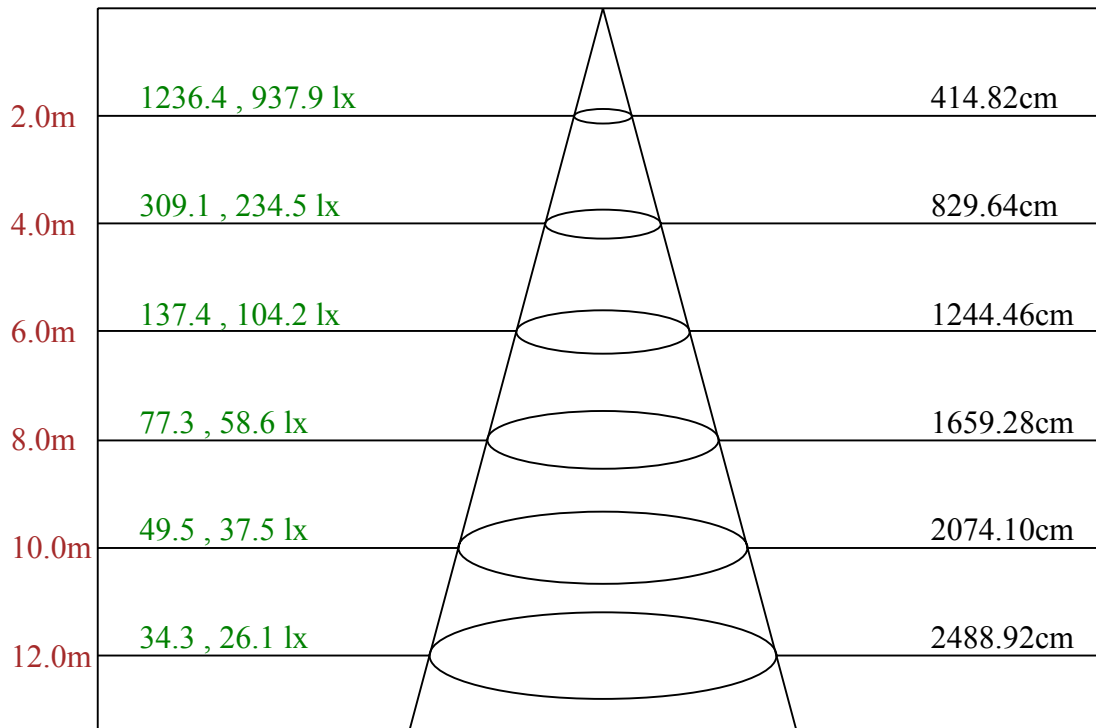
0-10	0.00
10-20	962.77
20-30	2659.38
30-40	0.00
40-50	3295.27
50-60	2908.15
60-70	0.00
70-80	1905.67
80-90	763.33
90-100	0.00
100-110	265.27
110-120	248.43
120-130	0.00
130-140	219.97
140-150	171.48
150-160	0.00
160-170	108.94
170-180	0.00



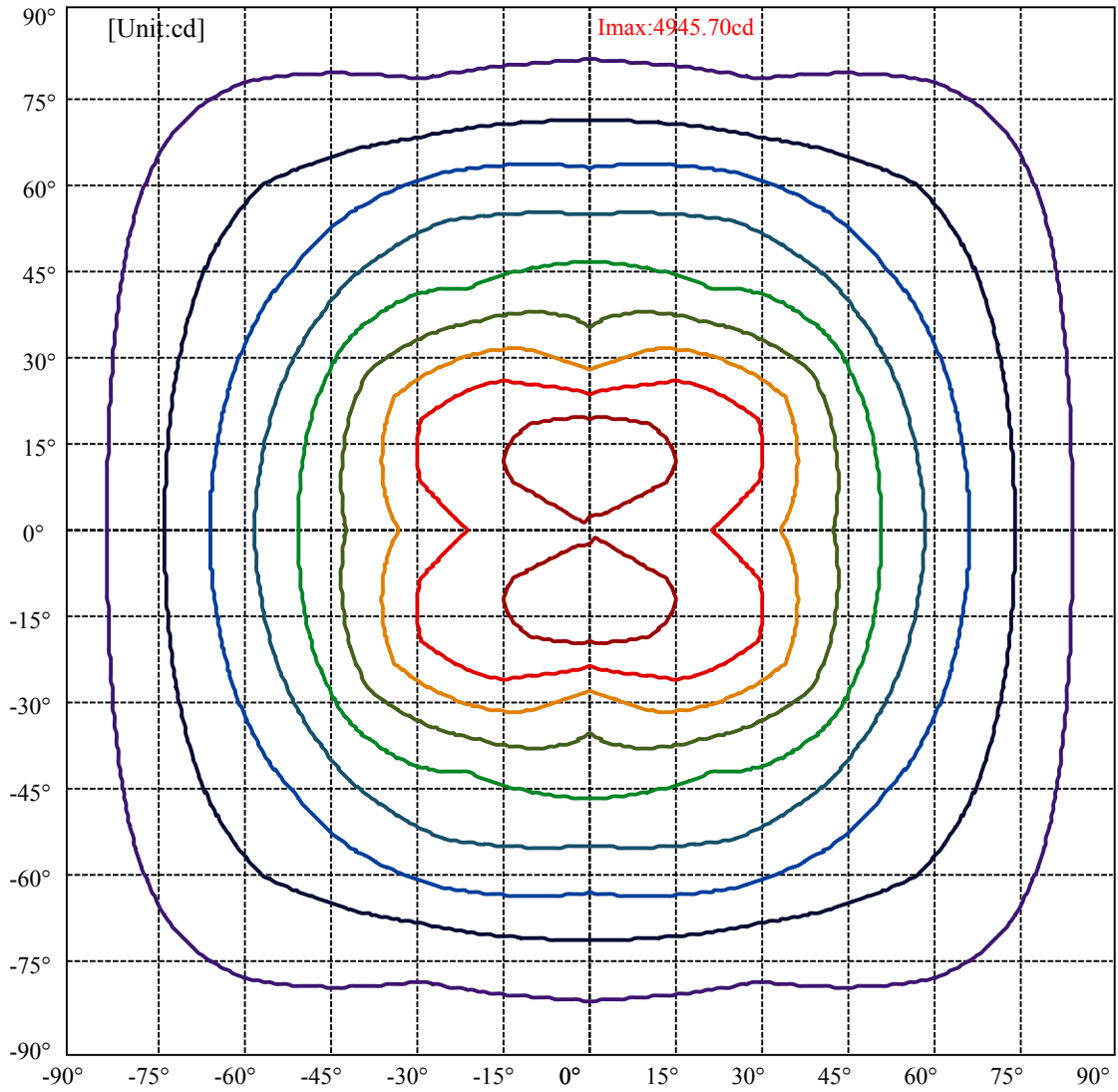
C90(Max): ———
 C0/C180: ———
 C90/C270: ———

Field angle(10%Imax):C0/180Left:84.1 Right:84.1
 :C90/270Left:95.9 Right:65.9

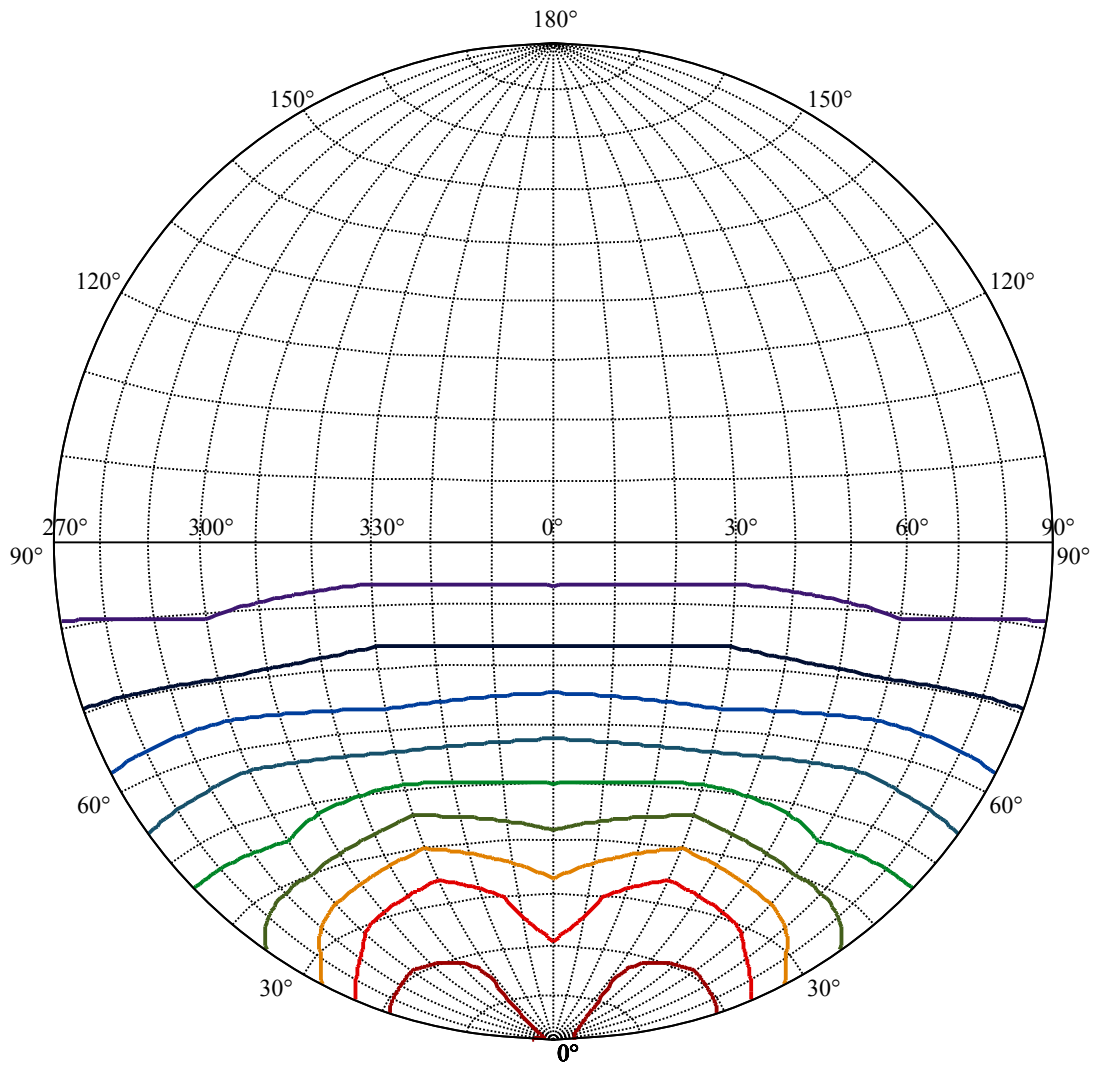
Beam Angle(50%Imax):C0/180Left:54.2 Right:54.2
 :C90/270Left:61.0 Right:31.0



Max , Ave Beam angle of C90 plane 92.08



(10%Imax) 494.57	—
(20%Imax) 989.139	—
(30%Imax) 1483.71	—
(40%Imax) 1978.28	—
(50%Imax) 2472.85	—
(60%Imax) 2967.42	—
(70%Imax) 3461.99	—
(80%Imax) 3956.56	—
(90%Imax) 4451.13	—



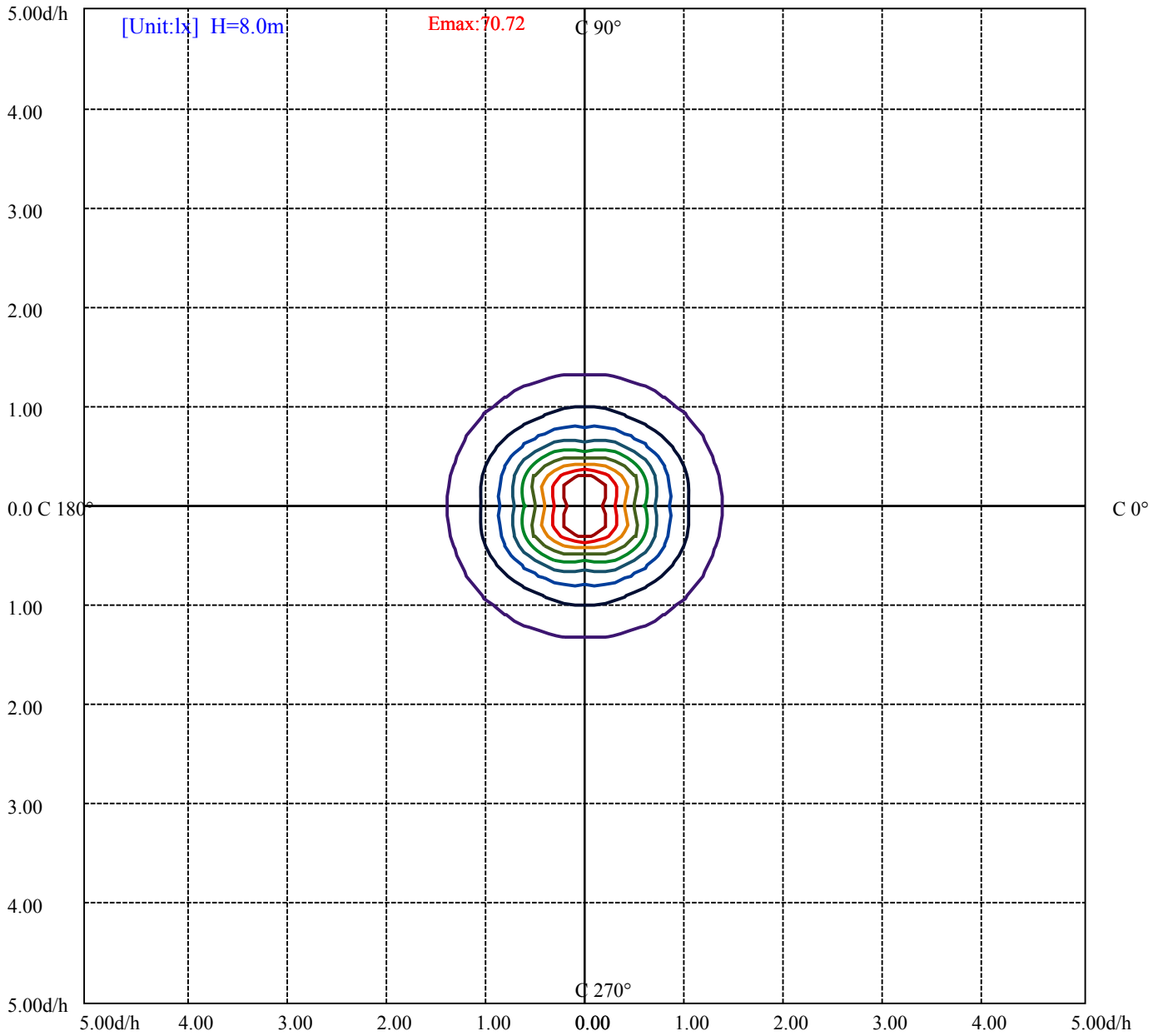
House










[Unit:cd]

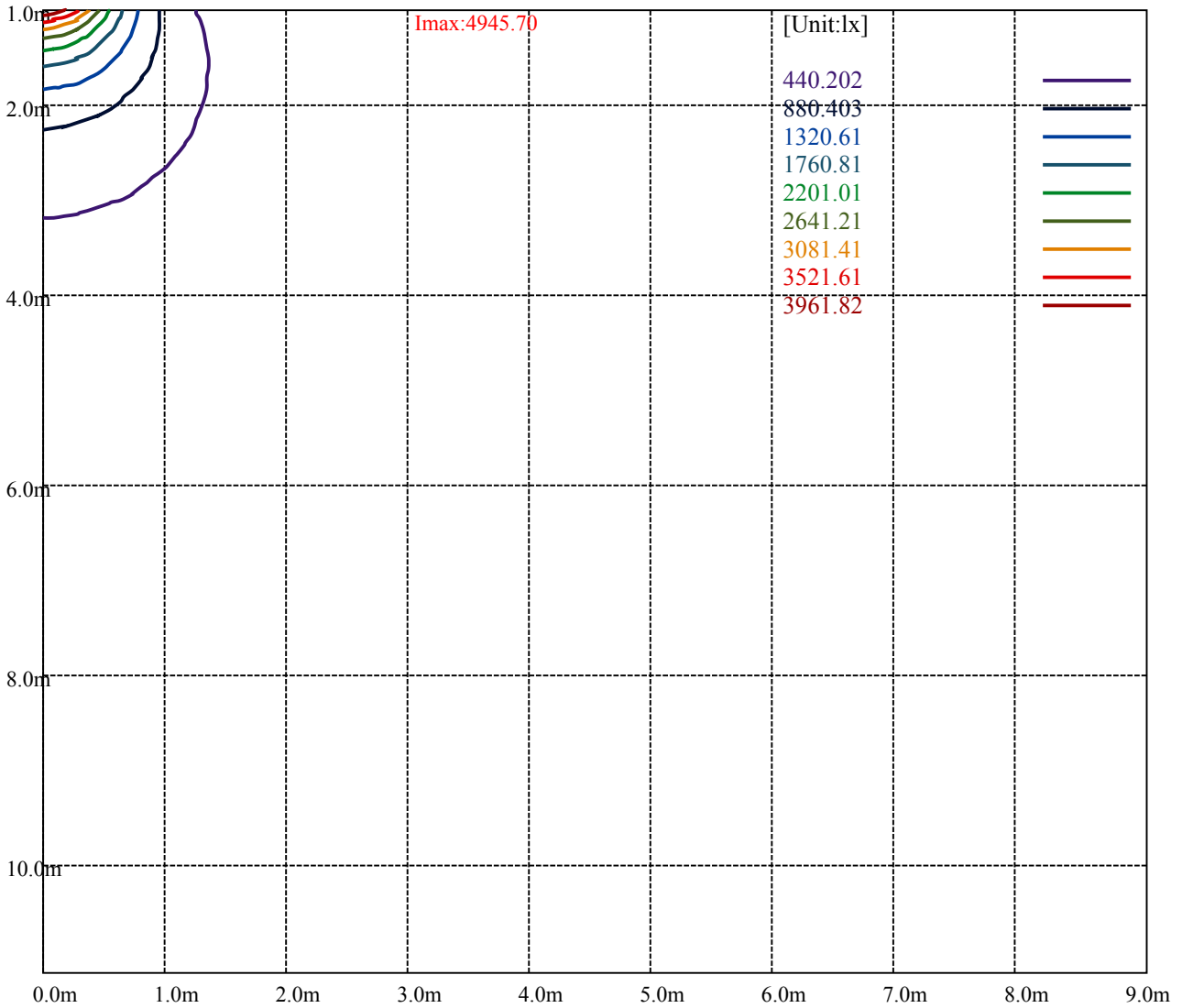
Road

Imax:4945.70

(10%Imax) 494.57	—
(20%Imax) 989.139	—
(30%Imax) 1483.71	—
(40%Imax) 1978.28	—
(50%Imax) 2472.85	—
(60%Imax) 2967.42	—
(70%Imax) 3461.99	—
(80%Imax) 3956.56	—
(90%Imax) 4451.13	—



(10%Emax) 7.072469	
(20%Emax) 14.14494	
(30%Emax) 21.21734	
(40%Emax) 28.28984	
(50%Emax) 35.36234	
(60%Emax) 42.43484	
(70%Emax) 49.50719	
(80%Emax) 56.57969	
(90%Emax) 63.65219	



Luminance Table

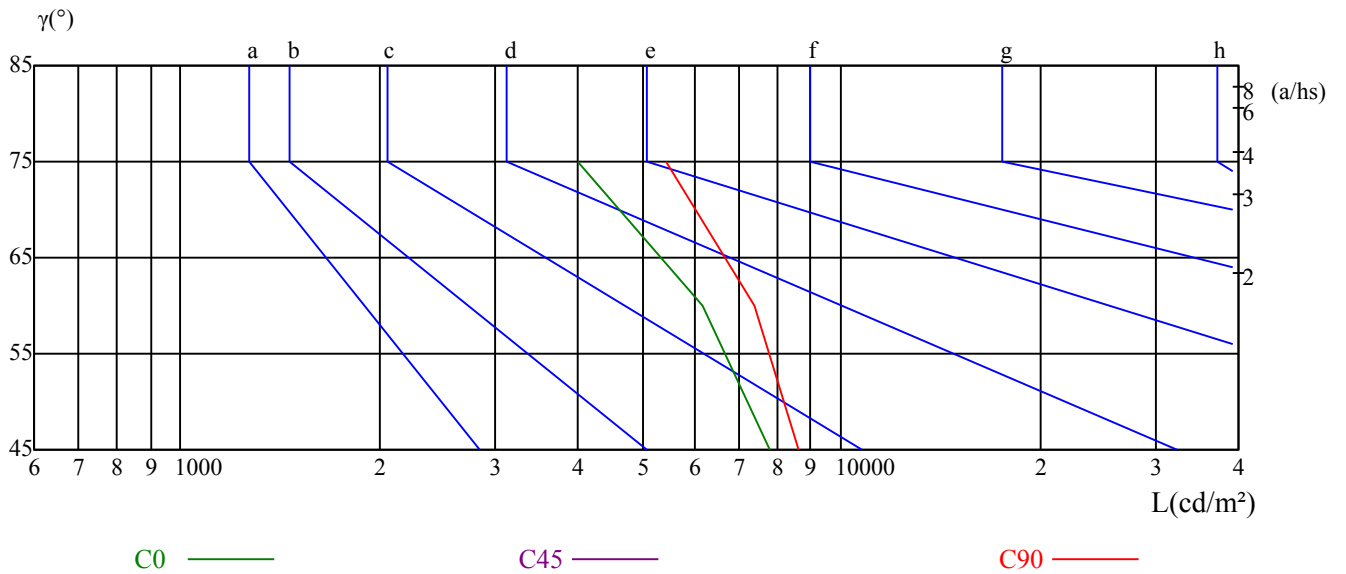
γ	45	50	55	60	65	70	75	80	85
C0	7824	0	0	6172	0	0	3993	0	0
C45	0	0	0	0	0	0	0	0	0
C90	8621	0	0	7403	0	0	5450	0	0

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	8651	7145	0	0	0	0

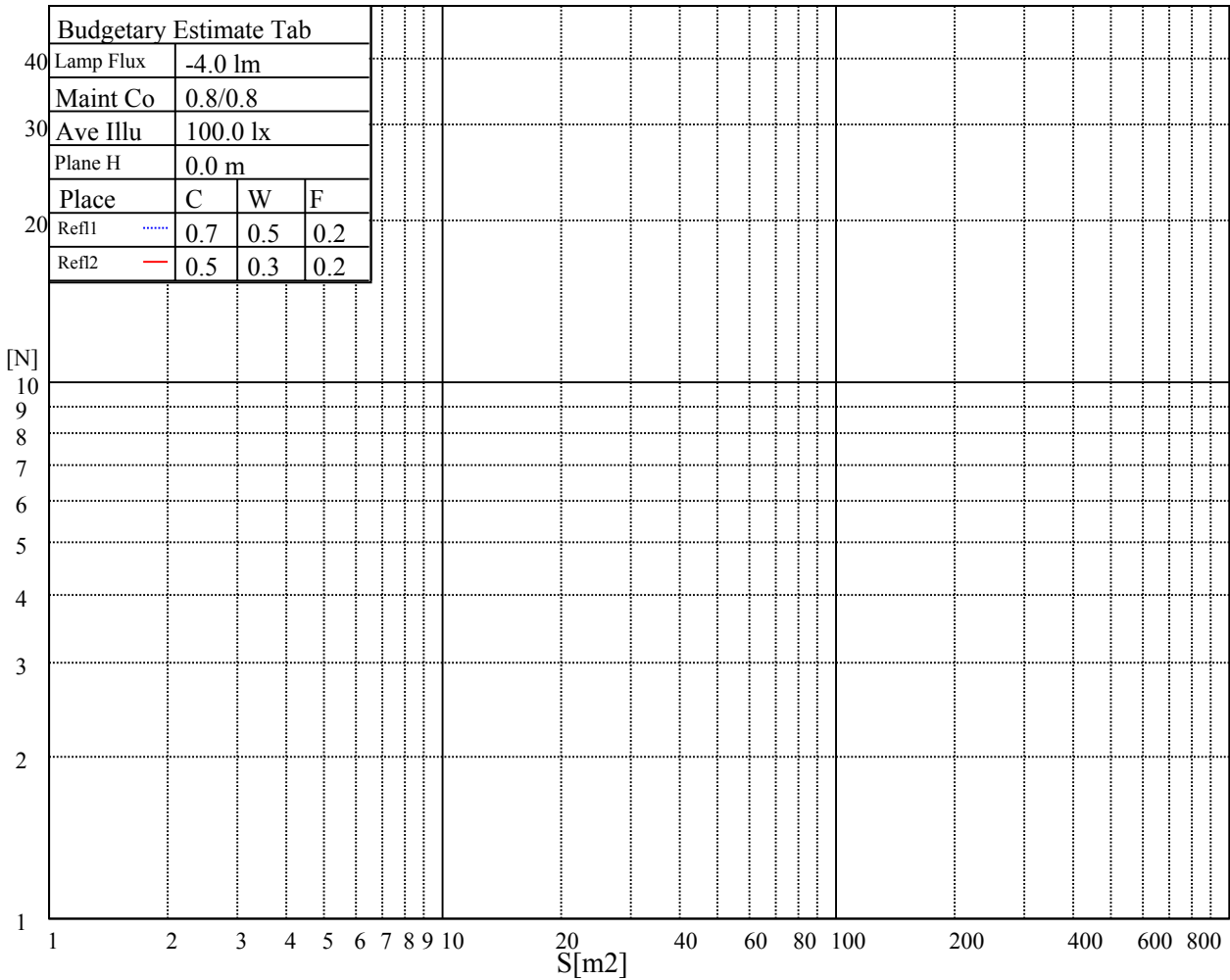
Glare Table

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

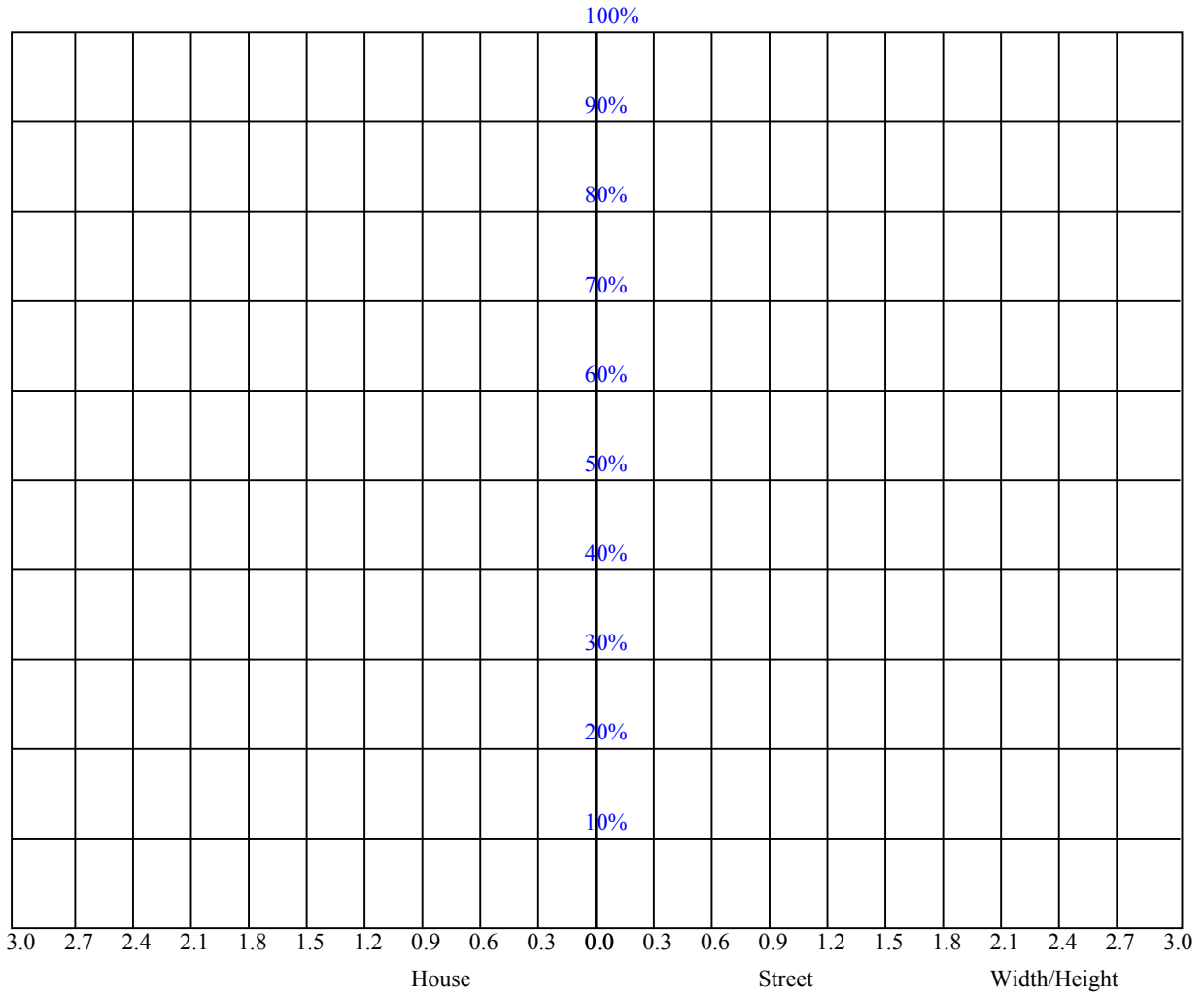
Luminance Limiting Curve



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	9.29	10.73	9.78	11.20	11.71	9.23	10.67	9.72	11.15	11.66
	3H	10.80	12.10	11.30	12.58	13.13	10.69	11.99	11.19	12.48	13.03
	4H	11.30	12.53	11.83	13.03	13.60	11.25	12.48	11.77	12.98	13.54
	6H	11.78	12.91	12.31	13.43	14.01	11.70	12.84	12.23	13.35	13.93
	8H	11.99	13.07	12.53	13.61	14.18	11.86	12.95	12.41	13.49	14.06
	12H	12.31	13.35	12.86	13.88	14.50	12.09	13.13	12.64	13.66	14.28
4H	2H	9.74	10.96	10.26	11.47	12.03	9.69	10.92	10.21	11.42	11.99
	3H	11.41	12.44	11.94	12.98	13.57	11.40	12.43	11.93	12.98	13.56
	4H	11.98	12.92	12.54	13.48	14.10	12.11	13.04	12.66	13.60	14.22
	6H	12.42	13.26	13.02	13.84	14.48	12.56	13.41	13.17	13.99	14.63
	8H	12.72	13.49	13.31	14.07	14.72	12.82	13.59	13.40	14.17	14.82
	12H	13.09	13.78	13.70	14.39	15.04	13.08	13.77	13.68	14.38	15.03
8H	4H	12.20	12.97	12.79	13.55	14.20	12.32	13.09	12.90	13.67	14.31
	6H	12.77	14.03	13.38	14.03	14.69	12.98	14.24	13.59	14.24	14.90
	8H	13.12	13.70	13.75	14.33	15.00	13.31	13.88	13.94	14.52	15.18
	12H	13.80	14.31	14.42	15.43	15.66	13.80	14.31	14.43	15.43	15.66
12H	4H	12.24	12.93	12.84	13.54	14.19	12.33	13.02	12.93	13.63	14.28
	6H	13.72	13.42	13.48	14.02	14.73	13.91	13.61	13.67	14.21	14.92
	8H	13.24	13.75	13.86	14.37	15.10	13.41	13.92	14.04	14.55	15.28
Variation with the observer position at spacings:											
S = 1.0H	0.3/-0.5					0.3/-0.6					
S = 1.5H	0.7/-0.8					0.6/-0.7					
S = 2.0H	0.7/-0.8					0.8/-0.8					
Standard tables:	BK3					BK4					
Uncorrected UGR	4.1					4.8					



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	4402.02	4217.13	3676.06	2868.82	1906.84	951.48	171.78	161.15	172.48
30.0	4390.55	4479.98	4237.20	2799.97	1631.15	917.09	171.78	161.15	172.48
60.0	4367.63	4822.84	3550.09	2432.76	1860.89	573.18	171.78	161.15	172.48
90.0	4356.16	4965.70	3114.92	2421.28	1562.23	663.66	160.33	161.15	172.48
120.0	4424.94	4754.27	3263.79	2329.48	1665.61	332.44	160.33	161.15	160.98
150.0	4413.48	4457.13	4168.49	2673.74	1562.23	825.38	160.33	161.15	160.98
180.0	4402.02	4148.56	3561.54	2708.16	1746.02	768.06	160.33	161.15	160.98
210.0	4390.55	4342.84	4397.53	3327.83	1700.07	940.01	160.33	161.15	160.98
240.0	4367.63	4834.27	4260.11	2558.99	1883.86	687.82	160.33	161.15	160.98
270.0	4356.16	4925.70	3257.04	2650.79	1690.63	756.60	160.33	161.15	160.98
300.0	4424.94	4834.27	4500.60	2673.74	1975.76	882.70	171.78	161.15	172.48
330.0	4413.48	4434.27	4477.69	3293.40	1711.56	985.87	171.78	161.15	172.48
360.0	4402.02	4217.13	3676.06	2868.82	1906.84	951.48	171.78	161.15	172.48
C/γ(°)	135.0	150.0	165.0	180.0					
0.0	172.30	172.13	172.13	171.95					
30.0	172.30	172.13	183.61	171.95					
60.0	172.30	172.13	183.61	183.42					
90.0	172.30	172.13	172.13	171.95					
120.0	172.30	172.13	172.13	183.42					
150.0	172.30	172.13	172.13	171.95					
180.0	172.30	172.13	172.13	171.95					
210.0	172.30	172.13	172.13	171.95					
240.0	172.30	172.13	172.13	183.42					
270.0	160.82	172.13	172.13	171.95					
300.0	172.30	172.13	183.61	183.42					
330.0	172.30	172.13	172.13	171.95					
360.0	172.30	172.13	172.13	171.95					