
P.Q.L., Inc. 6 LAMPS

LumCAT: 6 LAMPS	Luminaire: 5000K
Report No: /	Voltage(V):
Test No:	Current(A):
LampCAT: LEDSM4' 18WT8/50K/FR/V4	Power (W): 104.500
Lamp flux(lm)	PF:
Number of Lamps: 6	Ballast type:
Length(mm): 1200	Width(mm): 500
Phm Type: C	Height(mm): 150

Photometric Results

Lumens(lm): 10744.92
Lumens(lm)/Power(W): 102.82
Central intensity(cd): 3188.274
Maximum intensity(cd): 3188.388
Angle of maximum intensity: C=0.0 γ =15.0
Beam Angle(50%Imax): [H]Left=43.2 Right=71.8
[V]Left=60.3 Right=65.1
Field angle(10%Imax): [H]Left=66.3 Right=95.2
[V]Left=85.4 Right=86.1
Maximum s/h: C0_180=1.36 C90_270=1.39
Up flux rate of LUM(%): 1.75%
Down flux rate of LUM(%): 98.25%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 73.858%

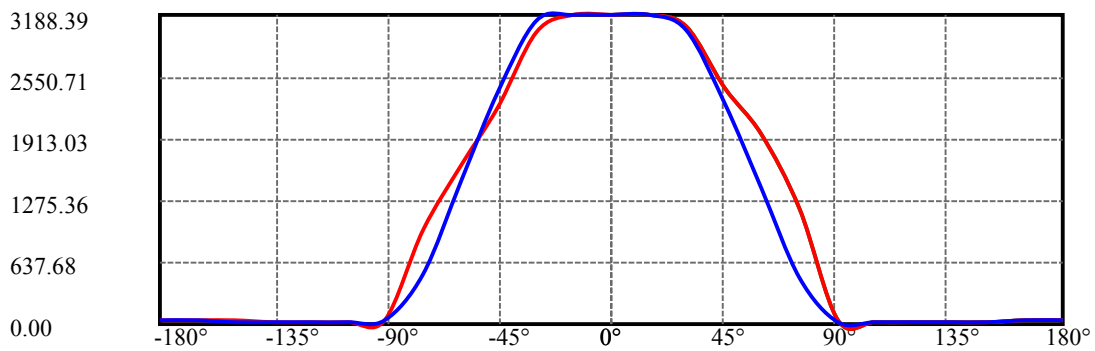
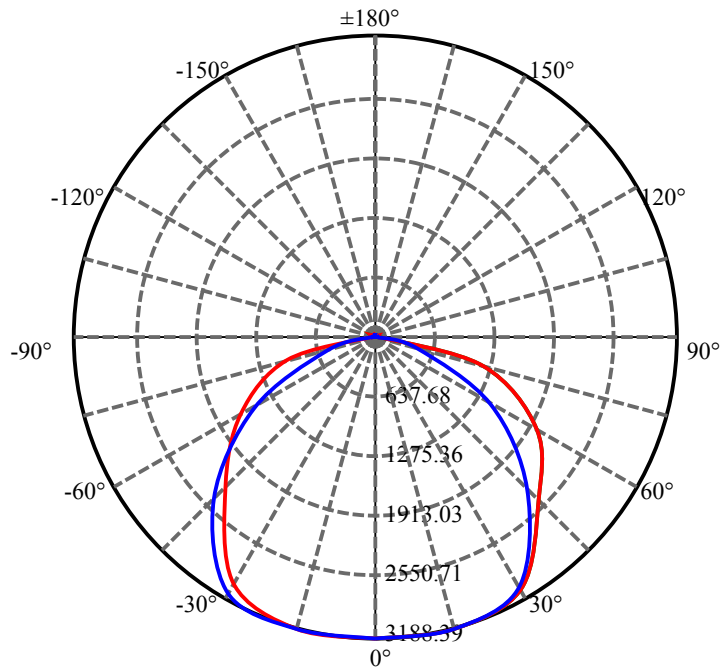
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3188.255	.000	.000	.000%	.000%
15.0	3188.293	682.592	682.592	6.353%	6.353%
30.0	3071.068	1964.478	2647.070	18.283%	24.636%
45.0	2352.389	2707.702	5354.772	25.200%	49.835%
60.0	1614.828	2581.250	7936.023	24.023%	73.858%
75.0	858.498	1874.020	9810.043	17.441%	91.299%
90.0	59.980	746.819	10556.860	6.950%	98.250%
105.0	23.314	67.727	10624.590	.630%	98.880%
120.0	23.769	35.674	10660.260	.332%	99.212%
135.0	25.805	32.255	10692.520	.300%	99.512%
150.0	28.447	27.086	10719.600	.252%	99.764%
165.0	30.871	18.617	10738.220	.173%	99.938%
180.0	31.667	6.694	10744.920	.062%	100.000%

ZONAL LUMEN SUMMARY

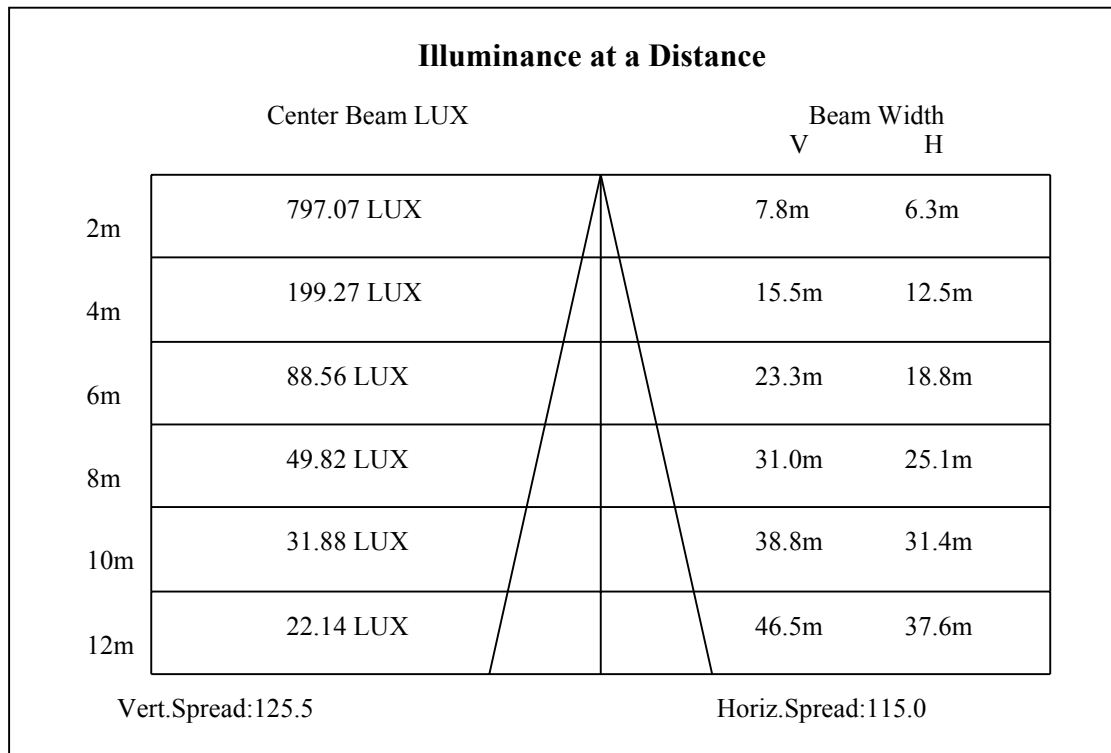
Zone	Lumens	%Fixt
0-30	2647.07	24.64%
0-40	2647.07	24.64%
0-60	7936.02	73.86%
0-90	10556.86	98.25%
90-120	103.40	0.96%
90-130	103.40	0.96%
90-150	162.74	1.51%
90-180	181.36	1.69%
0-180	10744.92	100.00%

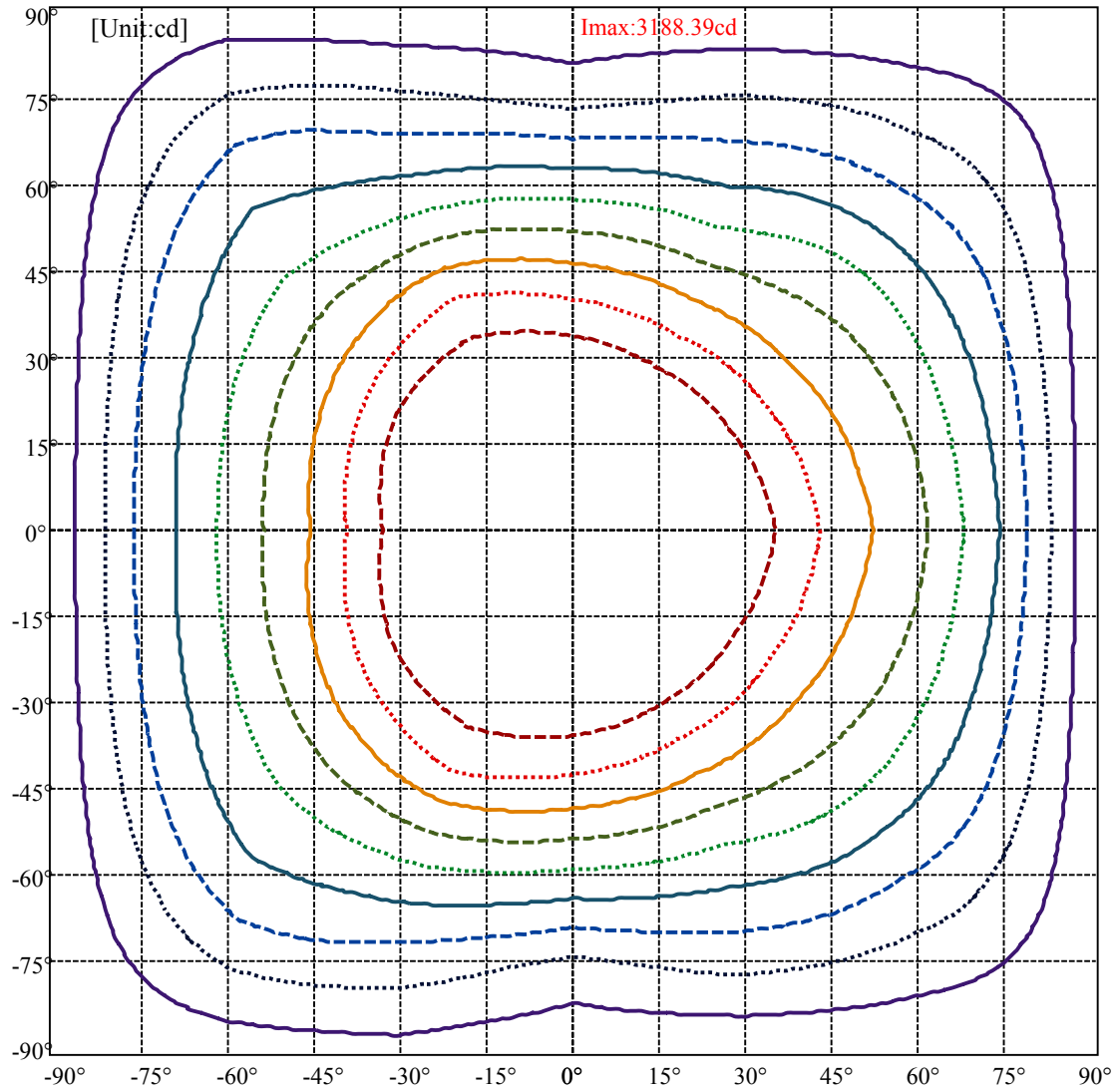
ZONAL LUMEN SUMMARY

0-10	0.00
10-20	682.59
20-30	1964.48
30-40	0.00
40-50	2707.70
50-60	2581.25
60-70	0.00
70-80	1874.02
80-90	746.82
90-100	0.00
100-110	67.73
110-120	35.67
120-130	0.00
130-140	32.25
140-150	27.09
150-160	0.00
160-170	18.62
170-180	0.00

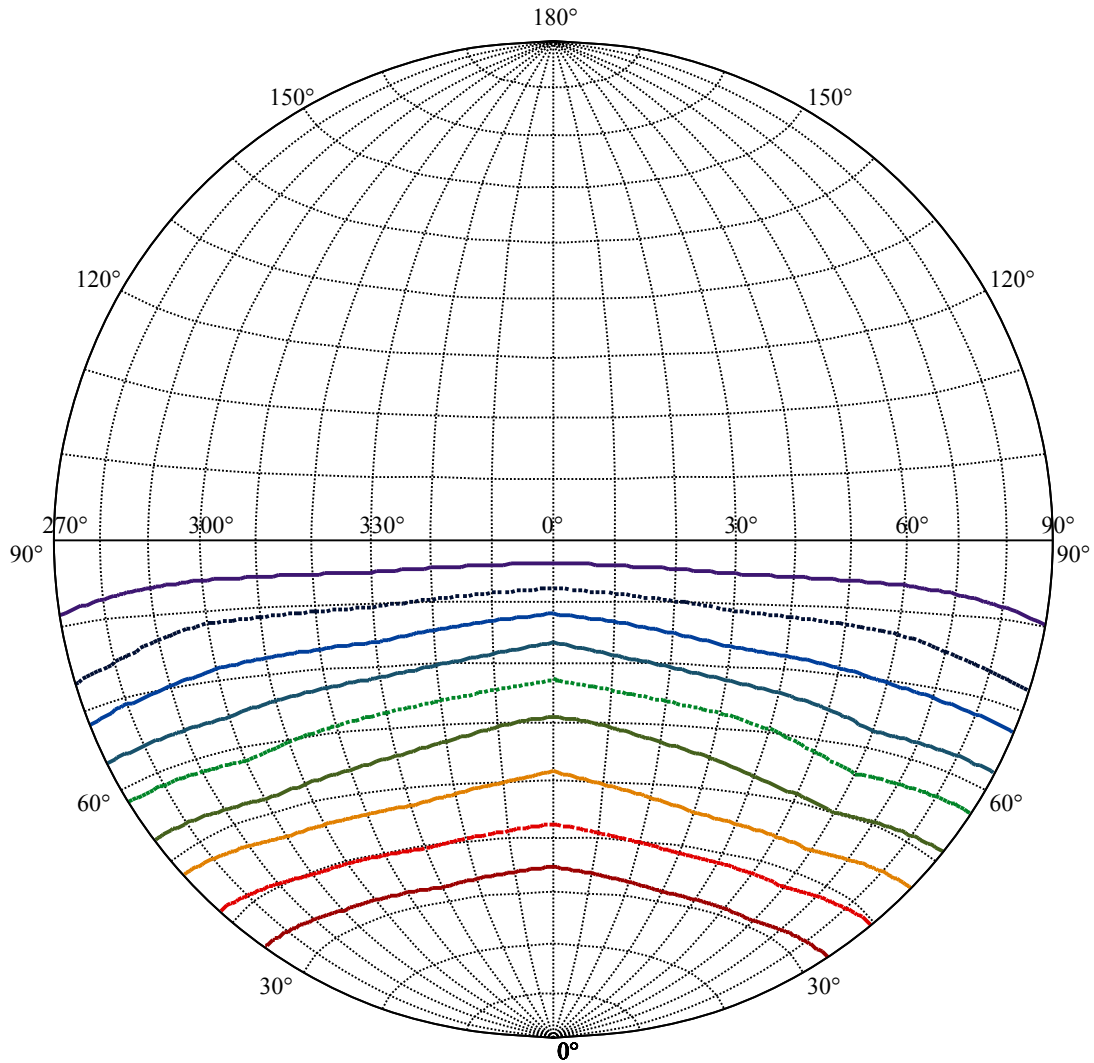


C0(Max): ———
C0/C180: ———
C90/C270: ———





- (10%Imax) 318.839 —————
- (20%Imax) 637.678 ······
- (30%Imax) 956.516 - - - - -
- (40%Imax) 1275.36 ————
- (50%Imax) 1594.19 ······
- (60%Imax) 1913.03 - - - - -
- (70%Imax) 2231.87 ————
- (80%Imax) 2550.71 ······
- (90%Imax) 2869.55 - - - - -

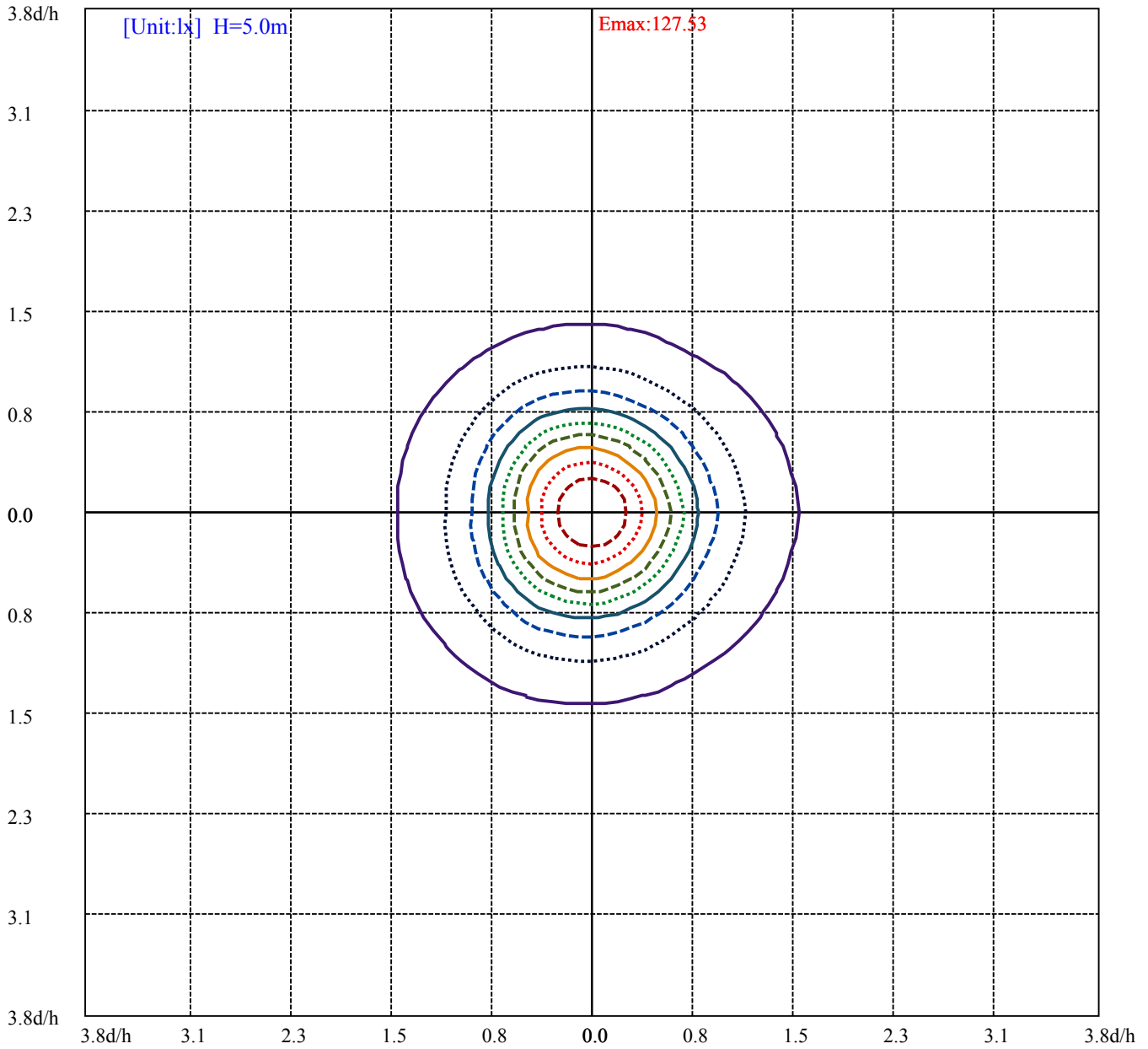


House

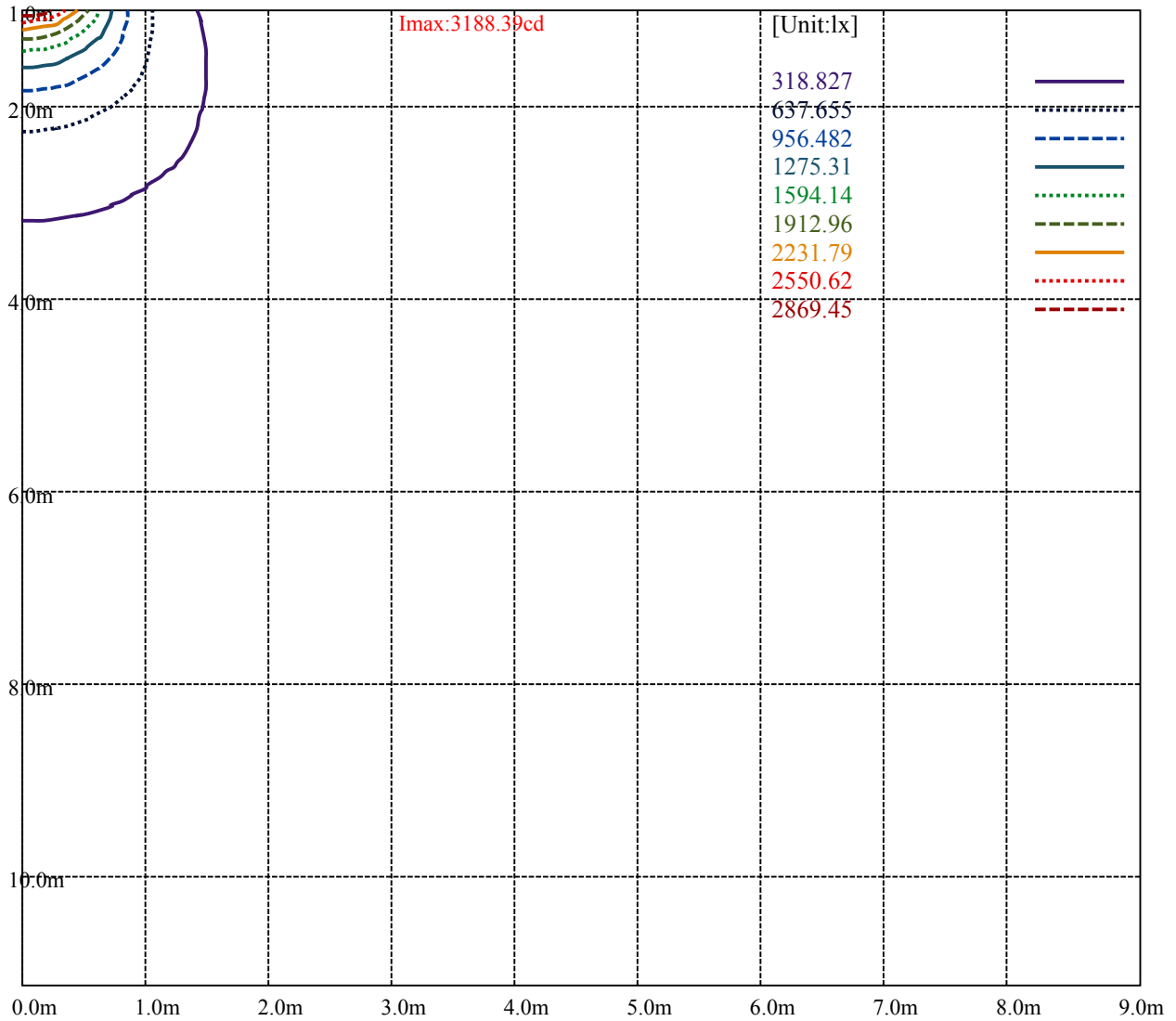
Road

I_{max}:3188.39cd

(10%I _{max}) 318.839	—
(20%I _{max}) 637.678	·····
(30%I _{max}) 956.516	- - - - -
(40%I _{max}) 1275.36	—
(50%I _{max}) 1594.19	·····
(60%I _{max}) 1913.03	- - - - -
(70%I _{max}) 2231.87	—
(80%I _{max}) 2550.71	·····
(90%I _{max}) 2869.55	- - - - -



- (10%Emax) 12.75288
- (20%Emax) 25.50572
- (30%Emax) 38.2586
- (40%Emax) 51.0116
- (50%Emax) 63.7644
- (60%Emax) 76.5172
- (70%Emax) 89.27
- (80%Emax) 102.0228
- (90%Emax) 114.776



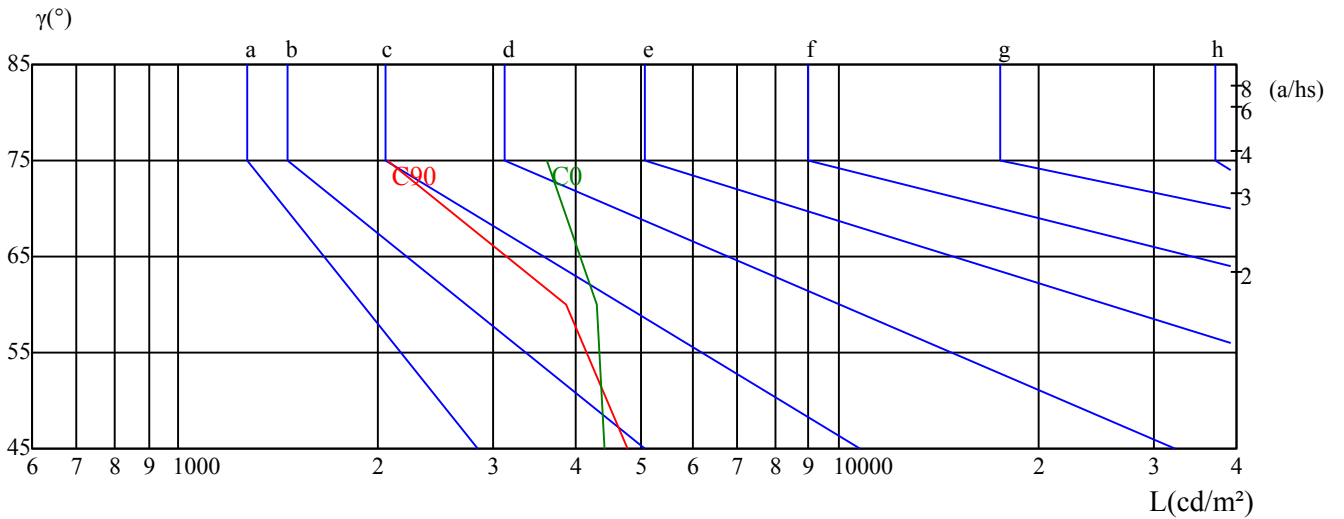
Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	4429	0	0	4312	0	0	3607	0	0
C45	0	0	0	0	0	0	0	0	0
C90	4772	0	0	3857	0	0	2075	0	0

Glare Table

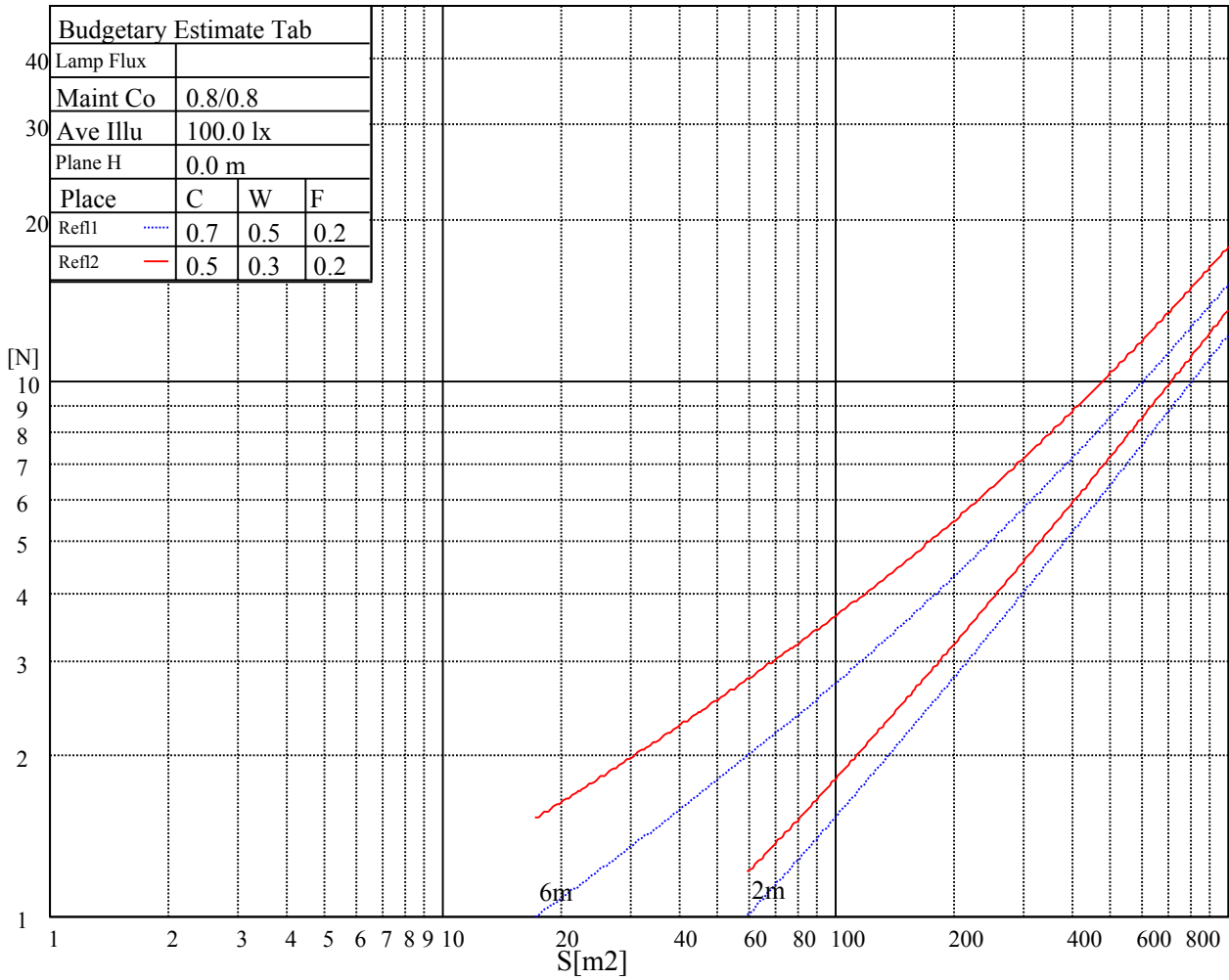
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

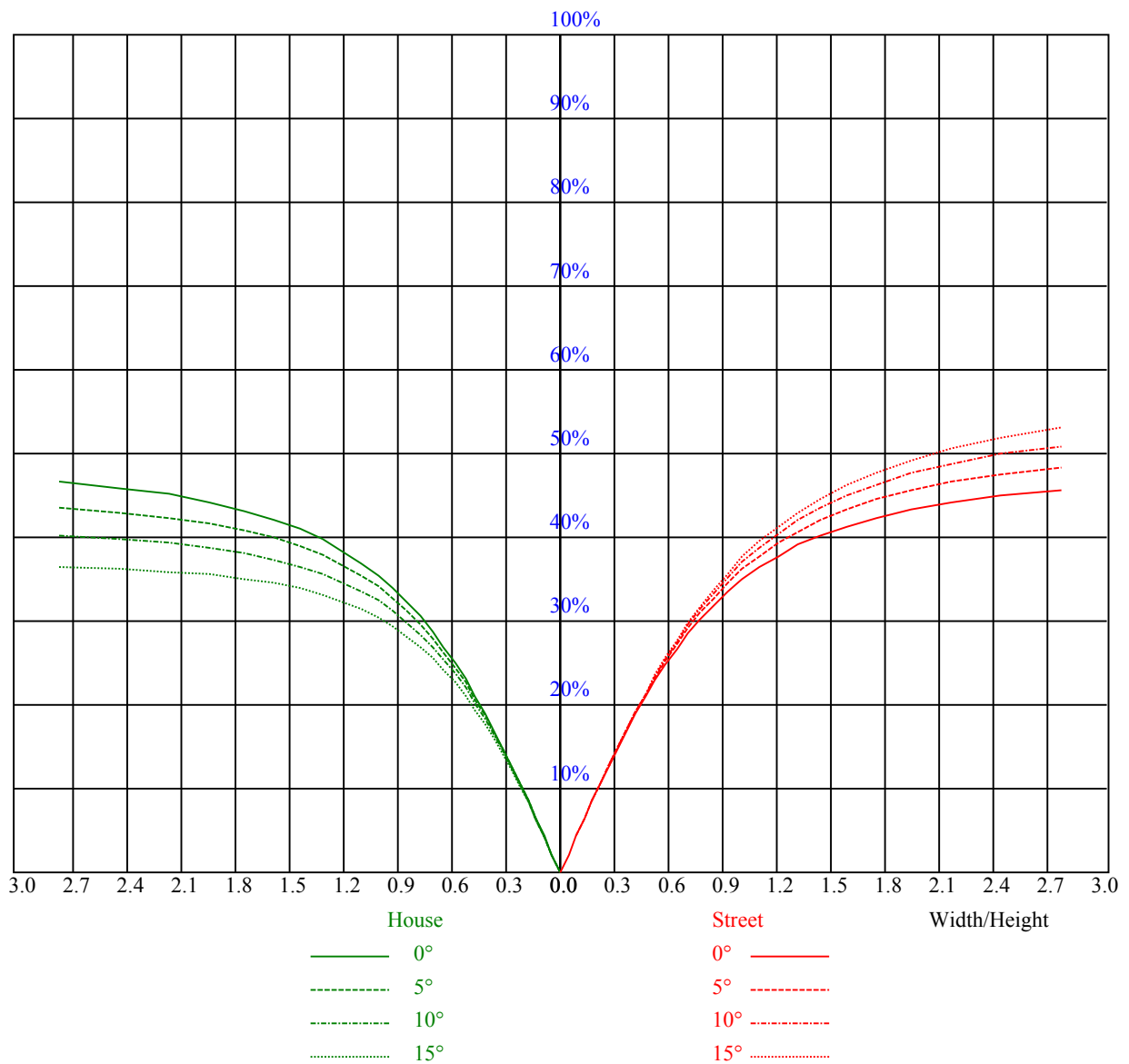


Illuminatin assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	9.2	10.8	9.5	11.1	11.4	8.1	9.7	8.4	10.0	10.3
	3H	11.1	12.6	11.5	12.9	13.3	9.4	10.9	9.8	11.2	11.6
	4H	11.8	13.1	12.2	13.5	13.9	9.7	11.0	10.1	11.4	11.8
	6H	12.6	13.9	13.0	14.2	14.6	10.1	11.4	10.5	11.8	12.2
	8H	12.8	14.1	13.3	14.5	14.9	10.3	11.6	10.7	12.0	12.3
	12H	12.8	13.9	13.3	14.3	14.7	10.2	11.2	10.6	11.7	12.1
4H	2H	9.5	10.8	9.9	11.2	11.5	8.6	9.9	9.0	10.3	10.7
	3H	11.6	12.6	12.0	13.1	13.5	10.2	11.2	10.6	11.6	12.1
	4H	12.6	13.7	13.1	14.1	14.6	10.8	11.9	11.3	12.3	12.8
	6H	13.5	14.6	14.0	15.0	15.4	11.4	12.4	11.8	12.9	13.3
	8H	13.6	14.4	14.2	14.9	15.4	11.4	12.1	11.9	12.6	13.2
	12H	13.9	14.6	14.4	15.1	15.7	11.5	12.3	12.1	12.8	13.3
8H	4H	12.7	13.5	13.3	14.0	14.5	11.1	11.9	11.7	12.4	12.9
	6H	13.7	14.4	14.2	15.0	15.5	11.8	12.6	12.4	13.1	13.6
	8H	14.1	14.8	14.6	15.4	15.9	12.1	12.9	12.7	13.4	13.9
	12H	14.4	15.1	14.9	15.7	16.2	12.3	13.1	12.9	13.6	14.1
12H	4H	12.8	13.5	13.3	14.0	14.6	11.2	12.0	11.8	12.5	13.0
	6H	13.8	14.5	14.3	15.0	15.6	12.0	12.7	12.5	13.2	13.8
	8H	14.2	14.9	14.7	15.5	16.0	12.3	13.0	12.8	13.5	14.1
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.8					0.3/-0.5				
S = 1.5H		0.6/-0.5					0.6/-0.7				
S = 2.0H		0.9/-0.5					0.8/-0.9				
Standard tables:		BKBF					BK4				
Uncorrected UGR		-1.1					-5.8				
According 1000lm											

五、灯具的概算曲线



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	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98
1	0.93	0.86	0.79	0.90	0.84	0.78	0.85	0.80	0.75	0.81	0.76	0.72	0.77	0.73	0.69	0.67
2	0.79	0.70	0.62	0.77	0.68	0.61	0.73	0.66	0.59	0.69	0.63	0.58	0.66	0.61	0.56	0.53
3	0.68	0.58	0.50	0.67	0.57	0.49	0.63	0.55	0.48	0.60	0.53	0.47	0.57	0.51	0.46	0.43
4	0.59	0.49	0.41	0.58	0.48	0.40	0.55	0.46	0.39	0.52	0.45	0.38	0.50	0.43	0.38	0.35
5	0.52	0.41	0.33	0.51	0.41	0.33	0.48	0.39	0.32	0.46	0.38	0.32	0.44	0.37	0.31	0.29
6	0.46	0.35	0.28	0.45	0.35	0.28	0.42	0.34	0.27	0.40	0.33	0.27	0.39	0.32	0.26	0.24
7	0.41	0.31	0.24	0.40	0.30	0.23	0.38	0.29	0.23	0.36	0.28	0.23	0.35	0.28	0.22	0.20
8	0.36	0.27	0.20	0.36	0.26	0.20	0.34	0.26	0.20	0.33	0.25	0.20	0.31	0.24	0.19	0.17
9	0.33	0.24	0.18	0.32	0.24	0.17	0.31	0.23	0.17	0.30	0.22	0.17	0.28	0.22	0.17	0.15
10	0.30	0.21	0.16	0.30	0.21	0.15	0.28	0.21	0.15	0.27	0.20	0.15	0.26	0.20	0.15	0.13



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	3188.27	3188.39	3069.30	2442.94	1965.90	1187.27	36.14	22.95	22.73
30.0	3188.16	3188.27	2944.64	2263.96	1744.99	848.18	26.36	24.20	25.00
60.0	3188.27	3188.39	2923.28	2169.42	1390.67	714.20	25.11	23.75	24.89
90.0	3188.27	3188.27	3037.48	2277.49	1407.72	472.61	26.82	23.52	24.43
120.0	3188.27	3188.27	3184.07	2501.69	1499.76	741.59	52.05	23.98	24.89
150.0	3188.27	3188.27	3186.34	2353.28	1657.83	1132.04	119.77	24.55	25.00
180.0	3188.27	3188.27	3002.37	2234.19	1641.35	968.97	34.77	24.43	25.34
210.0	3188.16	3188.27	3186.34	2417.26	1691.92	1151.58	121.82	23.30	22.84
240.0	3188.27	3188.16	3188.27	2571.91	1660.56	867.27	192.04	22.84	22.50
270.0	3188.27	3188.39	3128.16	2402.94	1486.81	523.41	35.11	21.70	22.16
300.0	3188.27	3188.16	3020.21	2285.21	1490.79	802.04	24.66	21.93	22.50
330.0	3188.27	3188.39	2982.37	2308.39	1739.65	892.84	25.11	22.61	22.95
360.0	3188.27	3188.39	3069.30	2442.94	1965.90	1187.27	36.14	22.95	22.73
C/γ(°)	135.0	150.0	165.0	180.0					
0.0	24.89	27.50	30.11	31.59					
30.0	27.39	29.43	31.25	31.70					
60.0	27.16	29.20	31.25	31.59					
90.0	26.70	29.43	31.36	31.59					
120.0	26.82	29.55	31.59	31.70					
150.0	26.93	29.66	31.82	31.82					
180.0	27.50	30.00	31.93	31.59					
210.0	24.32	27.50	30.80	31.70					
240.0	24.20	26.93	30.00	31.59					
270.0	24.32	27.16	30.11	31.59					
300.0	24.32	27.16	30.11	31.70					
330.0	25.11	27.84	30.11	31.82					
360.0	24.89	27.50	30.11	31.59					