
PQL 91297 LED 12.5WT8/50K/FR/V5

LumCAT: /

Luminaire: /

Report No: SL/BG6-172568-03

Test No:

LampCAT: 12.5WT8/50K/FR/V5

Lamp flux(lm): -1.0

Number of Lamps: 6

Length(mm): 1200

Phm Type: C

Voltage(V):

Current(A):

Power (W): 76.2000

PF:

Ballast type:

Width(mm): 475

Height(mm): 100

Photometric Results

Lumens(lm): 9647.04

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 126.60

Central intensity(cd): 3436.284

Maximum intensity(cd): 3436.284

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50% I_{max}): [C0/180]Total=111.0

[C90/270]Total=93.8

Field angle(10% I_{max}): [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

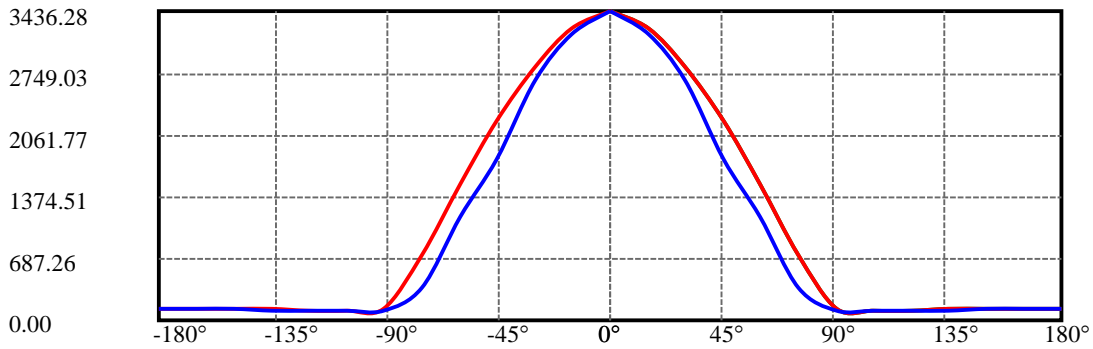
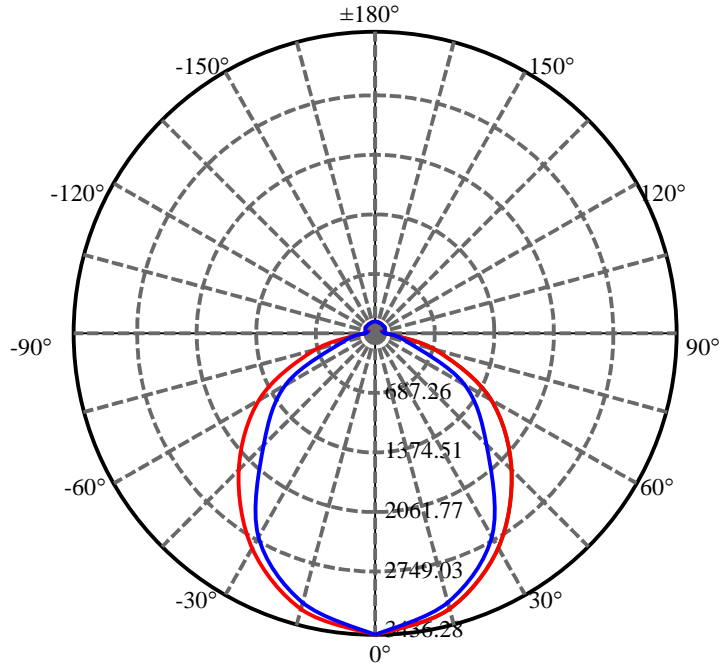
Output flux ratio in π solid angle : 72.640%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3432.487	0.000	0	.000%	.000%
15.0	3190.733	708.997	708.997	.000%	7.349%
30.0	2714.388	1853.301	2562.298	.000%	26.560%
45.0	1973.209	2340.318	4902.616	.000%	50.820%
60.0	1262.049	2105.004	7007.621	.000%	72.640%
75.0	529.742	1357.626	8365.247	.000%	86.713%
90.0	120.882	529.025	8894.271	.000%	92.197%
105.0	115.585	192.272	9086.543	.000%	94.190%
120.0	118.366	177.262	9263.806	.000%	96.027%
135.0	120.301	155.287	9419.093	.000%	97.637%
150.0	125.024	122.480	9541.573	.000%	98.907%
165.0	125.625	78.665	9620.238	.000%	99.722%
180.0	124.787	26.806	9647.044	.000%	100.000%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	2562.30	N.A.	26.56%
0-40	2562.30	N.A.	26.56%
0-60	7007.62	N.A.	72.64%
0-90	8894.27	N.A.	92.20%
0-120	9263.81	N.A.	96.03%
0-180	9647.04	N.A.	100.00%
60-90	3991.65	N.A.	41.38%
90-120	898.56	N.A.	9.31%
90-130	898.56	N.A.	9.31%
90-150	1176.33	N.A.	12.19%
90-180	1254.99	N.A.	13.01%
0-67.84	7717.64	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	0.00
10-20	709.00
20-30	1853.30
30-40	0.00
40-50	2340.32
50-60	2105.00
60-70	0.00
70-80	1357.63
80-90	529.02
90-100	0.00
100-110	192.27
110-120	177.26
120-130	0.00
130-140	155.29
140-150	122.48
150-160	0.00
160-170	78.67
170-180	0.00



C0(Max): —

C0/C180: —

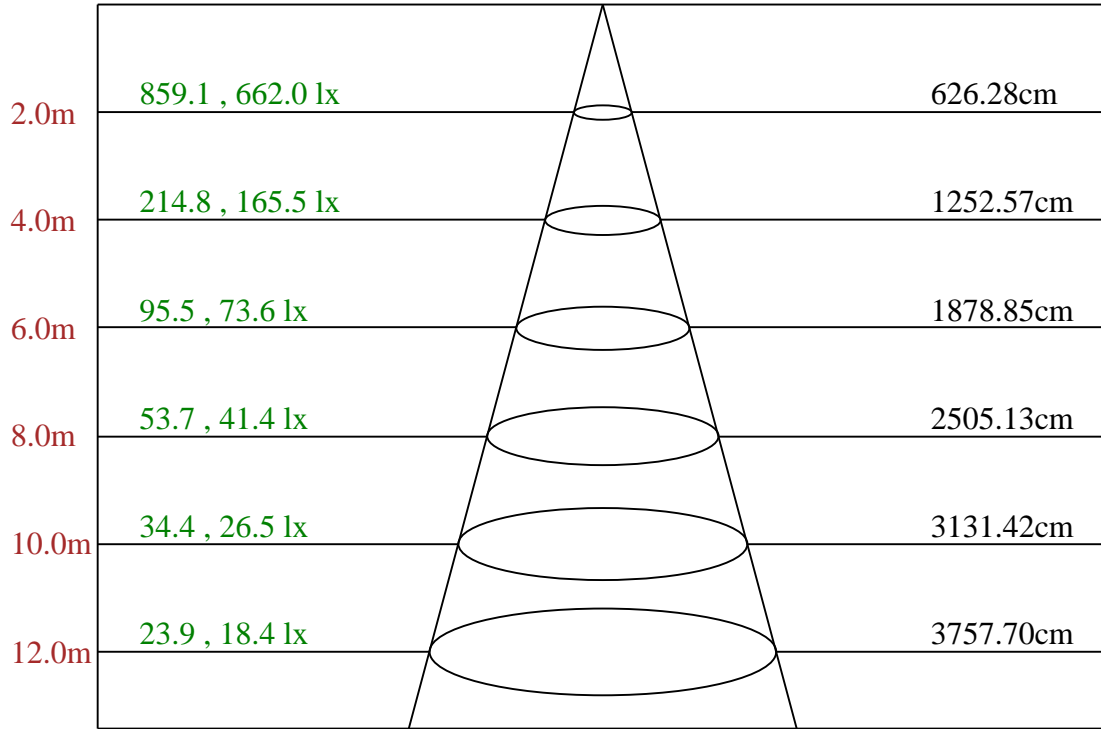
C90/C270: —

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

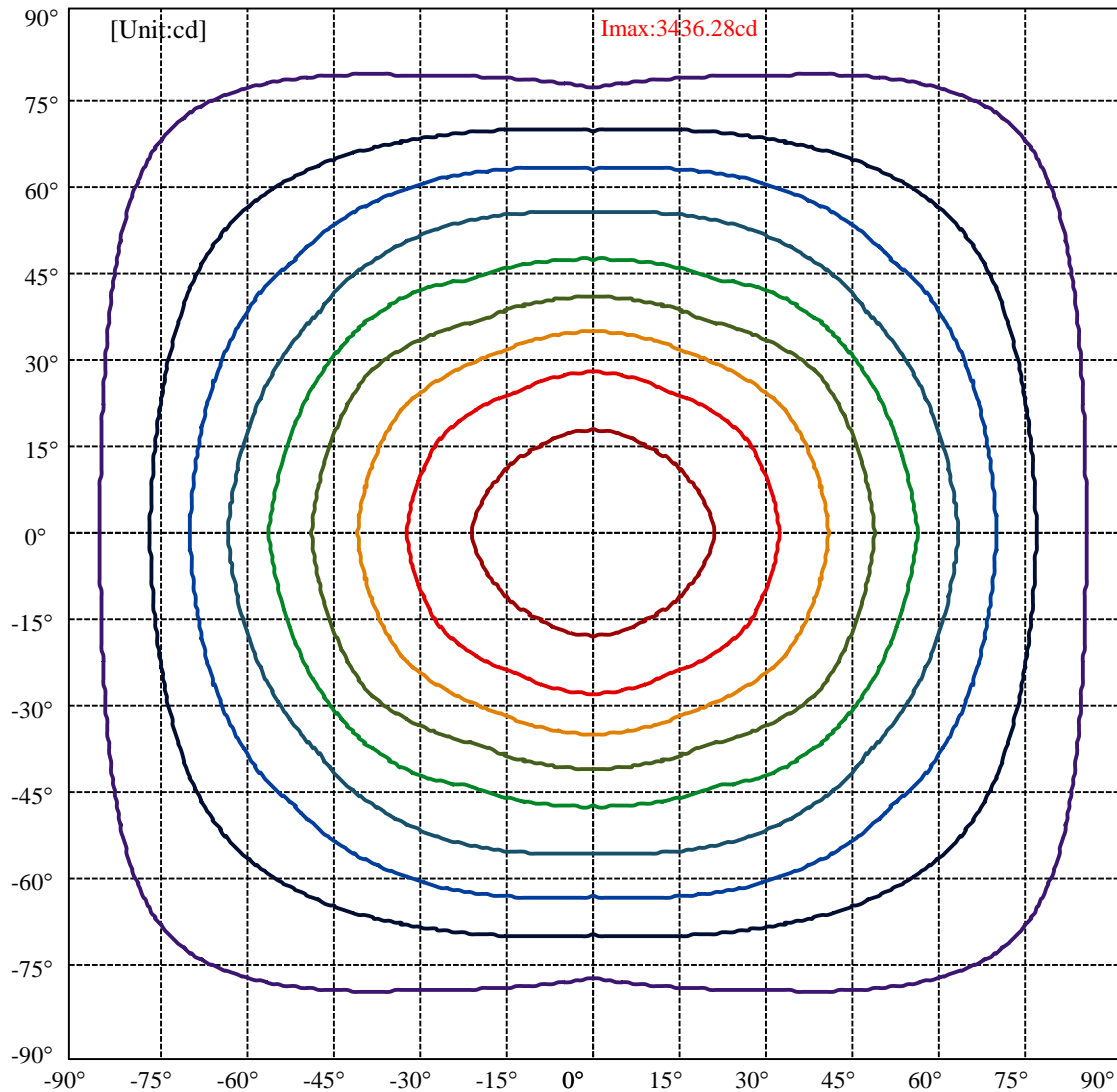
:C90/270Left:76.3 Right:76.3

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

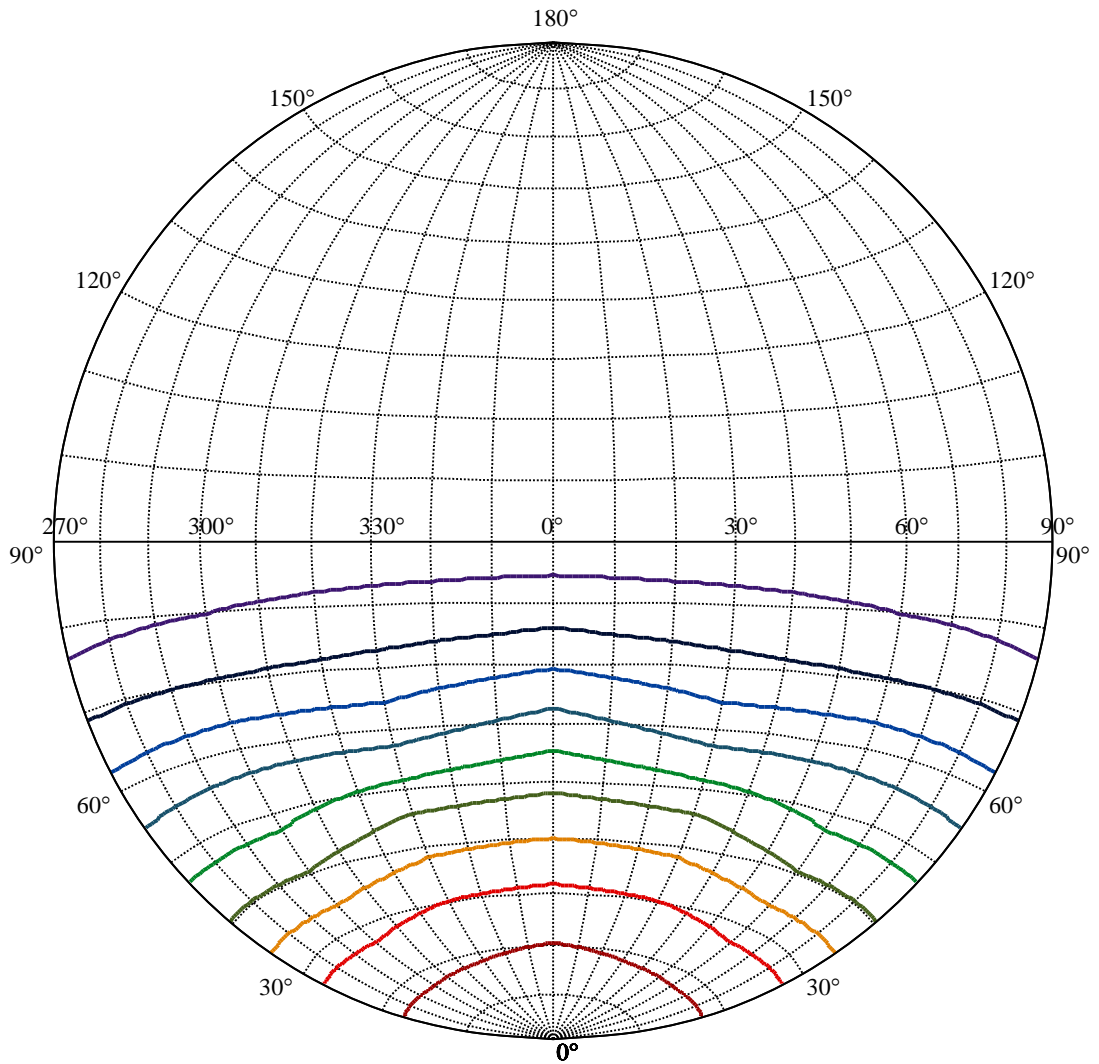


(10% I _{max}) 342.798	—
(20% I _{max}) 685.597	—
(30% I _{max}) 1028.39	—
(40% I _{max}) 1371.19	—
(50% I _{max}) 1713.99	—
(60% I _{max}) 2056.79	—
(70% I _{max}) 2399.59	—
(80% I _{max}) 2742.39	—
(90% I _{max}) 3085.18	—

Equipment: 123
Temperature(°C): 345

Date:
Humidity(%): 456%

Operator: 234



House

[Unit:cd]

Road

Imax:3436.28

(10%Imax) 343.628

(20%Imax) 687.257

(30%Imax) 1030.89

(40%Imax) 1374.51

(50%Imax) 1718.14

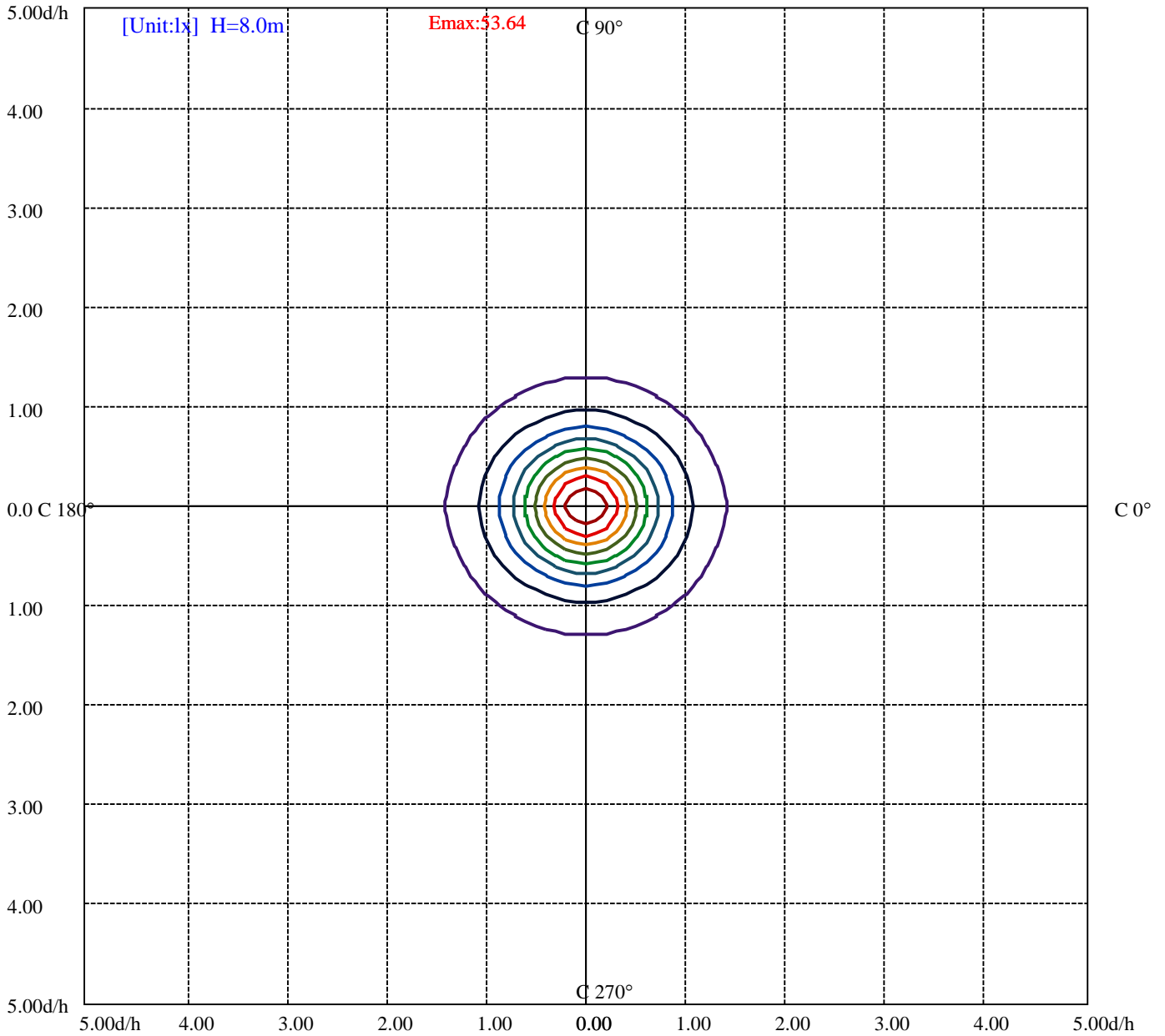
(60%Imax) 2061.77

(70%Imax) 2405.4

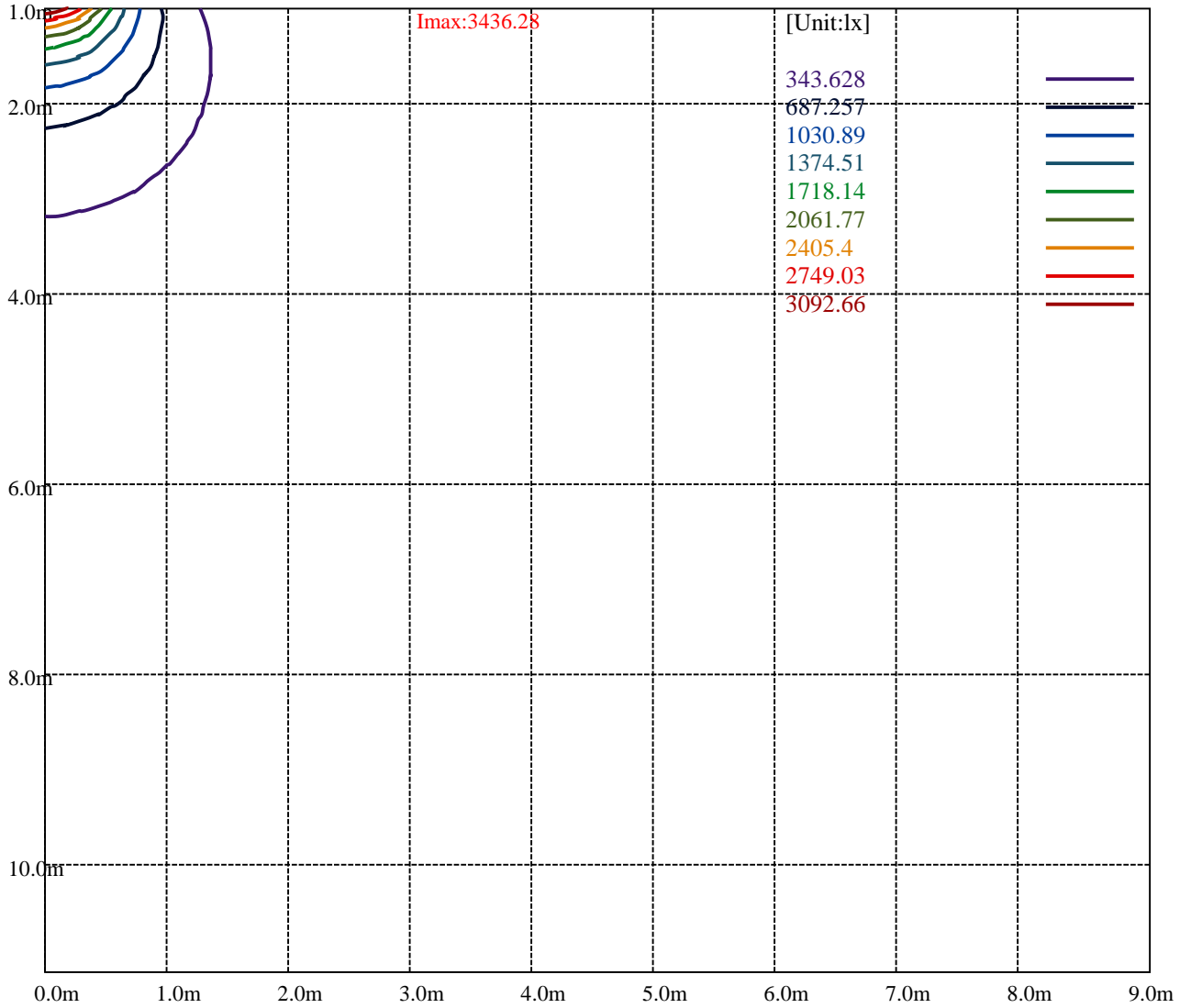
(80%Imax) 2749.03

(90%Imax) 3092.66





- (10% Emax) 5.364359
- (20% Emax) 10.72872
- (30% Emax) 16.09312
- (40% Emax) 21.4575
- (50% Emax) 26.82172
- (60% Emax) 32.18609
- (70% Emax) 37.55047
- (80% Emax) 42.91484
- (90% Emax) 48.27922



Luminance Table

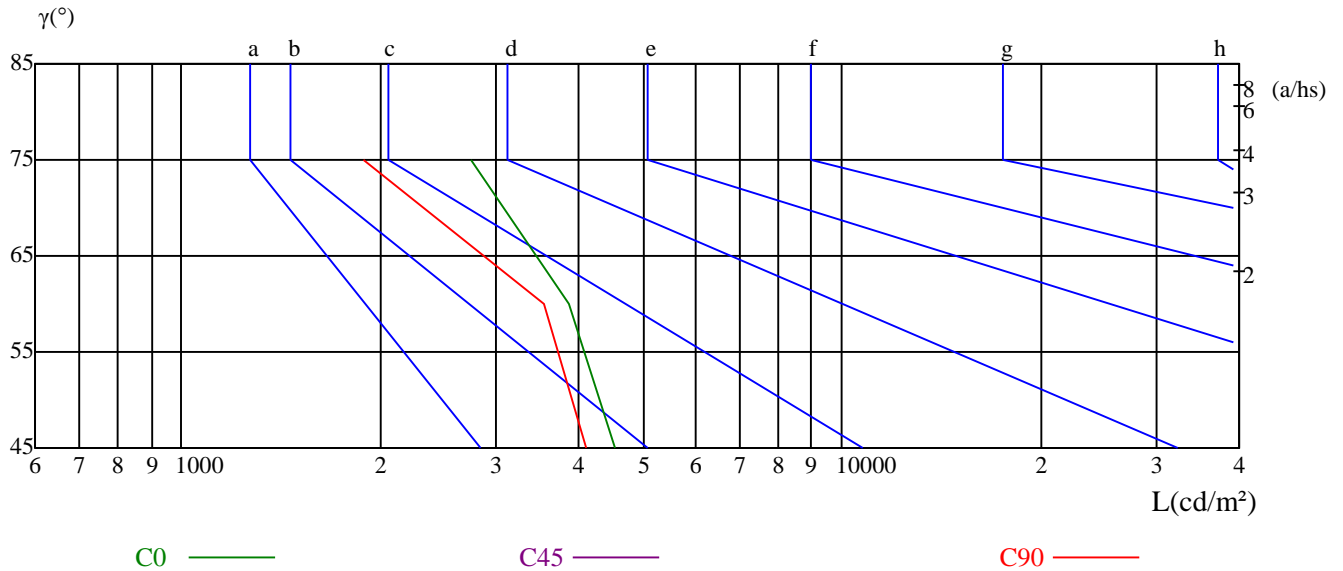
γ	45	50	55	60	65	70	75	80	85
C0	4529	0	0	3875	0	0	2750	0	0
C45	0	0	0	0	0	0	0	0	0
C90	4111	0	0	3532	0	0	1887	0	0

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	4911	2474	0	0	0	0

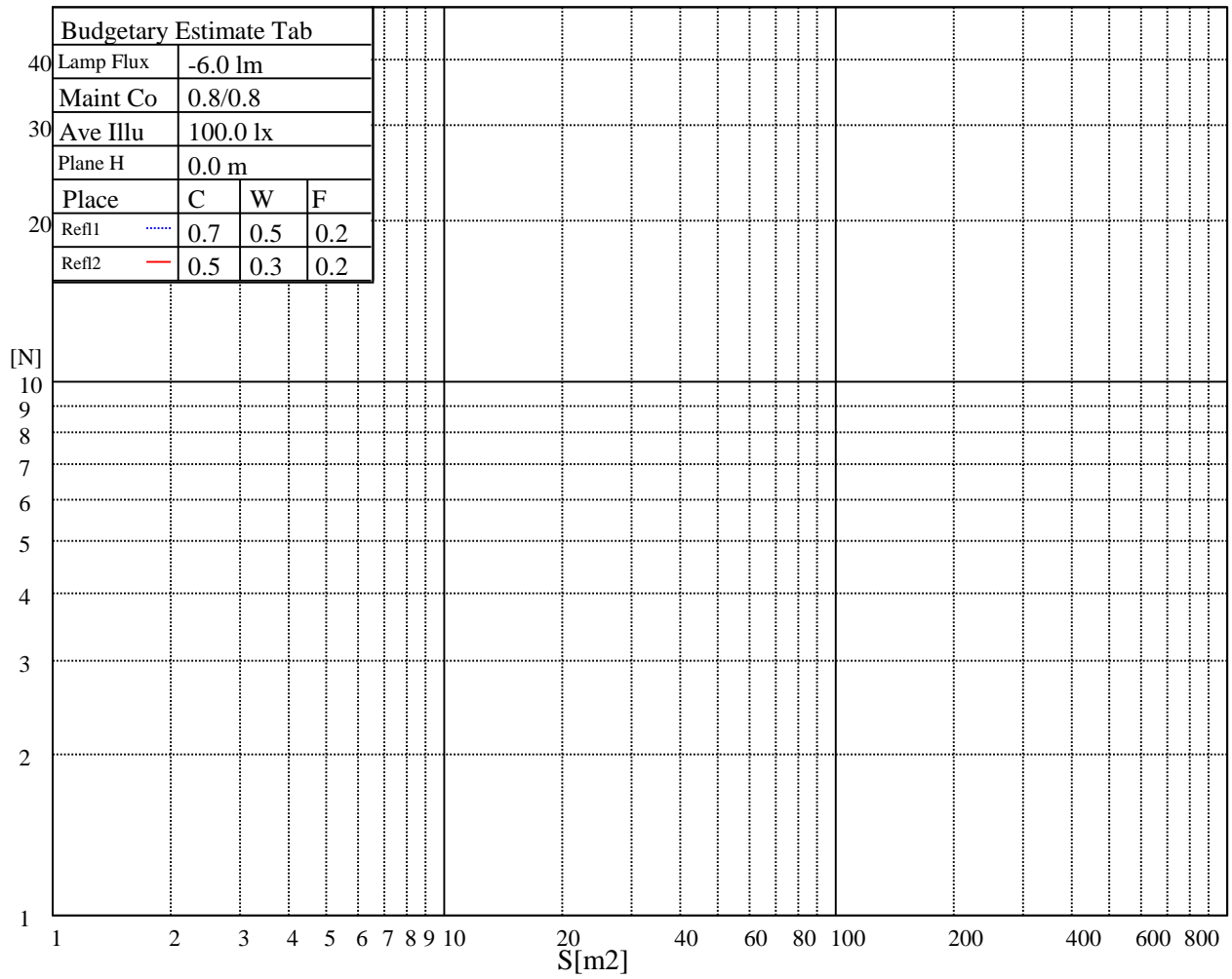
Glare Table

Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
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

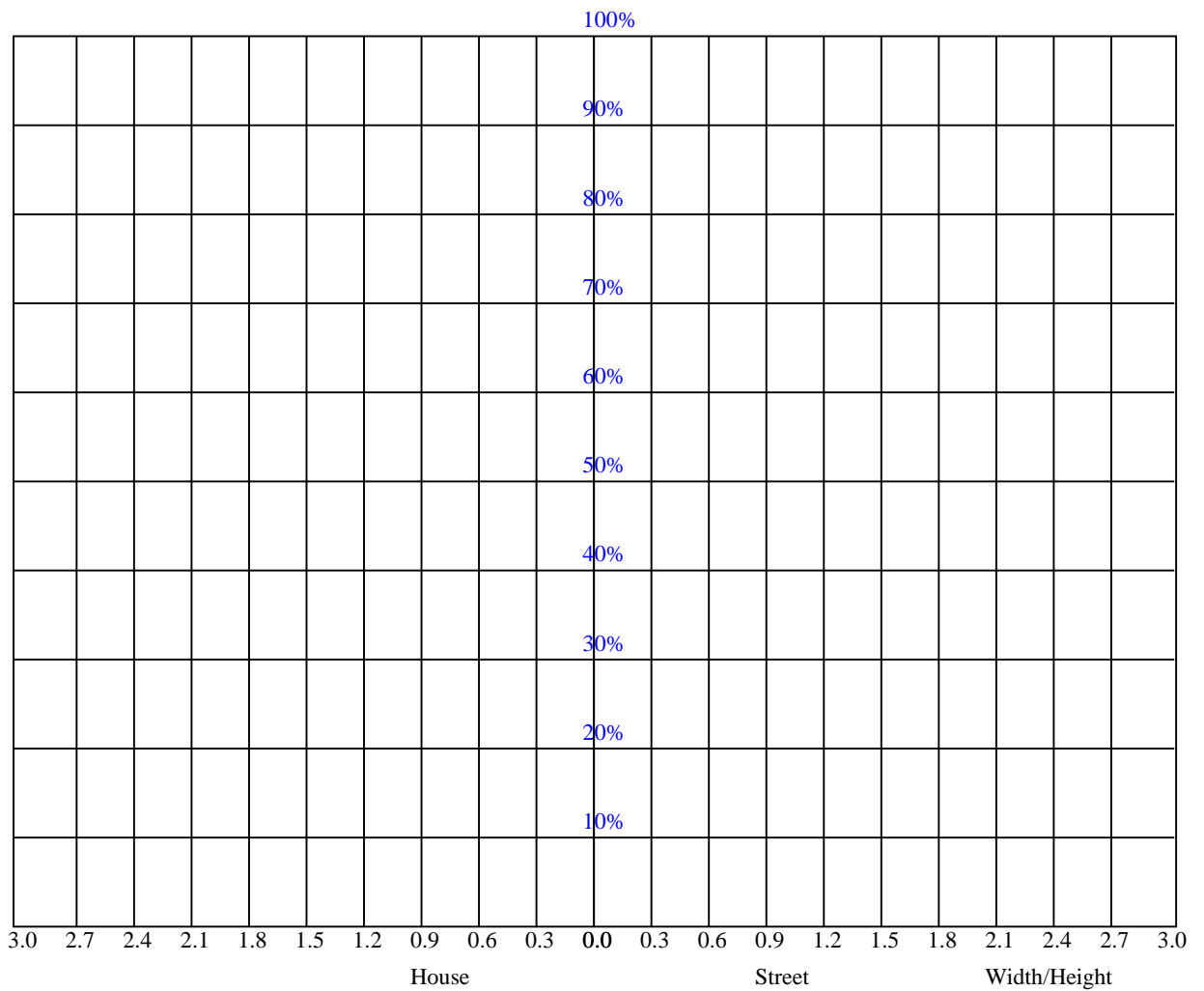
Luminance Limiting Curve



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
4H	12H	10.32	11.36	10.87	11.89	12.51	11.86	12.91	12.41	13.44	14.05
	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	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
	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	12H	12.08	12.59	12.71	13.72	13.95	13.36	13.87	13.99	15.00	15.23
	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		2.0					2.5				



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 RHOFC=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



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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	3436.28	3270.98	2855.80	2255.10	1516.61	738.17	124.55	116.28	116.97
30.0	3436.28	3196.83	2789.96	2047.83	1209.97	630.34	124.55	116.28	116.97
60.0	3430.10	3196.83	2608.90	1823.97	1301.13	489.35	124.55	116.28	116.97
90.0	3427.98	3180.35	2633.00	1774.23	1143.67	356.64	116.25	116.28	116.97
120.0	3427.98	3163.87	2501.91	1757.65	1226.54	422.99	116.25	107.97	116.97
150.0	3436.28	3188.59	2765.27	2047.83	1201.68	613.75	124.55	116.28	116.97
180.0	3436.28	3238.02	2789.96	2163.90	1497.59	710.99	122.05	116.28	116.97
210.0	3436.28	3188.59	2732.35	2172.19	1209.97	563.99	116.25	116.28	116.97
240.0	3430.10	3132.97	2673.81	1782.52	1224.10	437.29	116.25	116.28	116.97
270.0	3427.98	3171.08	2682.97	1815.68	1160.24	373.23	116.25	116.28	116.97
300.0	3427.98	3172.11	2798.19	1848.85	1218.26	439.58	124.55	116.28	125.33
330.0	3436.28	3188.59	2740.58	2188.77	1234.83	580.58	124.55	116.28	125.33
360.0	3436.28	3270.98	2855.80	2255.10	1516.61	738.17	124.55	116.28	116.97

C/γ(°)	135.0	150.0	165.0	180.0
0.0	125.17	125.02	124.93	124.79
30.0	116.82	125.02	133.26	124.79
60.0	125.17	125.02	124.93	124.79
90.0	116.82	125.02	124.93	124.79
120.0	116.82	125.02	124.93	124.79
150.0	116.82	125.02	124.93	124.79
180.0	116.82	125.02	124.93	124.79
210.0	116.82	125.02	124.93	124.79
240.0	125.17	125.02	124.93	124.79
270.0	116.82	125.02	124.93	124.79
300.0	125.17	125.02	124.93	124.79
330.0	125.17	125.02	124.93	124.79
360.0	125.17	125.02	124.93	124.79