
EVERFINE

LumCAT: BT-TB72W 720LEDs 5000k R70 120D

Luminaire: BT-TB72W

Report No:

Voltage(V): 231.0

Test No:

Current(A): 0.3251

LampCAT: SMD5630

Power (W): 72.200

Lamp flux(lm): 9620.0

PF: 0.9587

Number of Lamps: 1

Ballast type:

Length(mm): 2400

Width(mm): 65

Phm Type: C

Height(mm): 65

Photometric Results

Lumens(lm): 9620.67

Efficiency(%): 100.01%

Lumens(lm)/Power(W): 133.25

Central intensity(cd): 3273.642

Maximum intensity(cd): 3290.156

Angle of maximum intensity: C=90.0 γ =3.0

Beam Angle(50%Imax): [C0/180]Left=60.7 Right=58.1

[C90/270]Left=52.6 Right=53.9

Field angle(10%Imax): [C0/180]Left=88.8 Right=88.0

[C90/270]Left=76.9 Right=77.5

Maximum s/h: C0_180=1.28 C90_270=1.24

Up flux rate of lamp(%): 0.28%

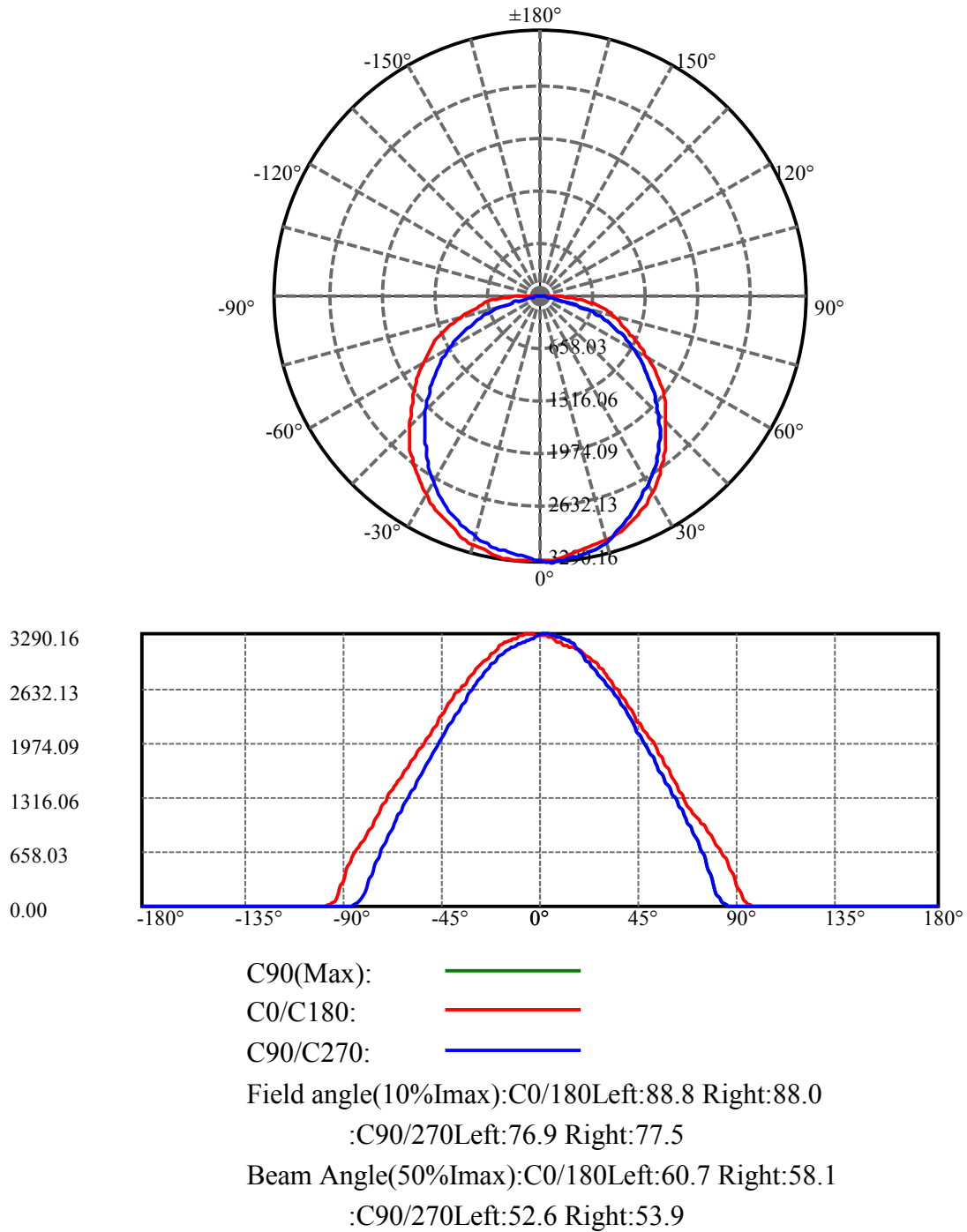
Down flux rate of lamp(%): 99.73%

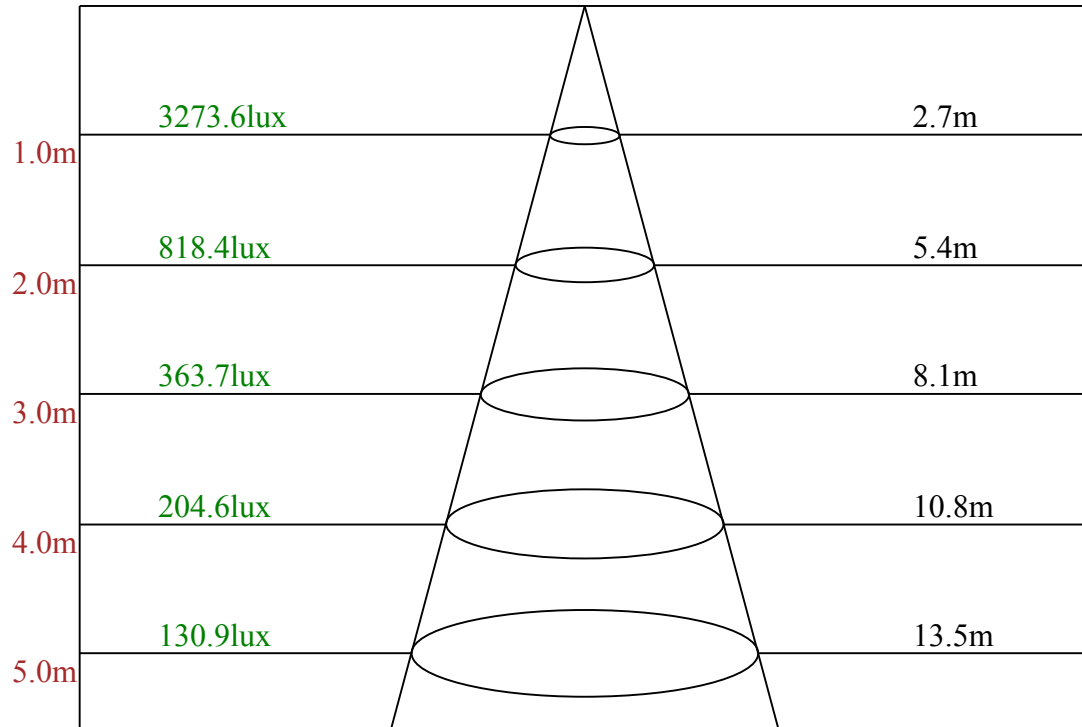
Up flux rate of LUM(%): 0.28%

Down flux rate of LUM(%): 99.72%

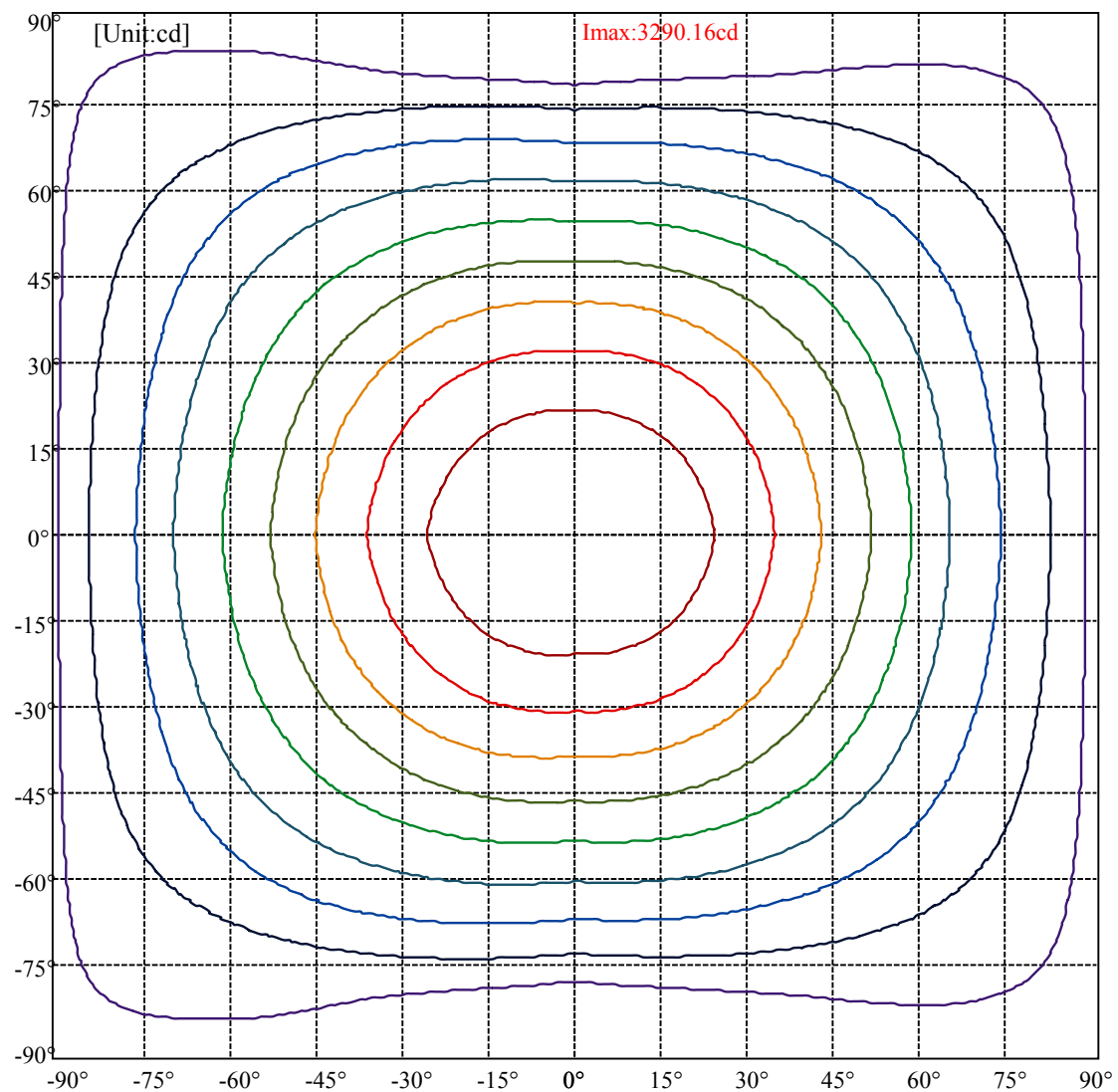
CIE Type : Direct lighting

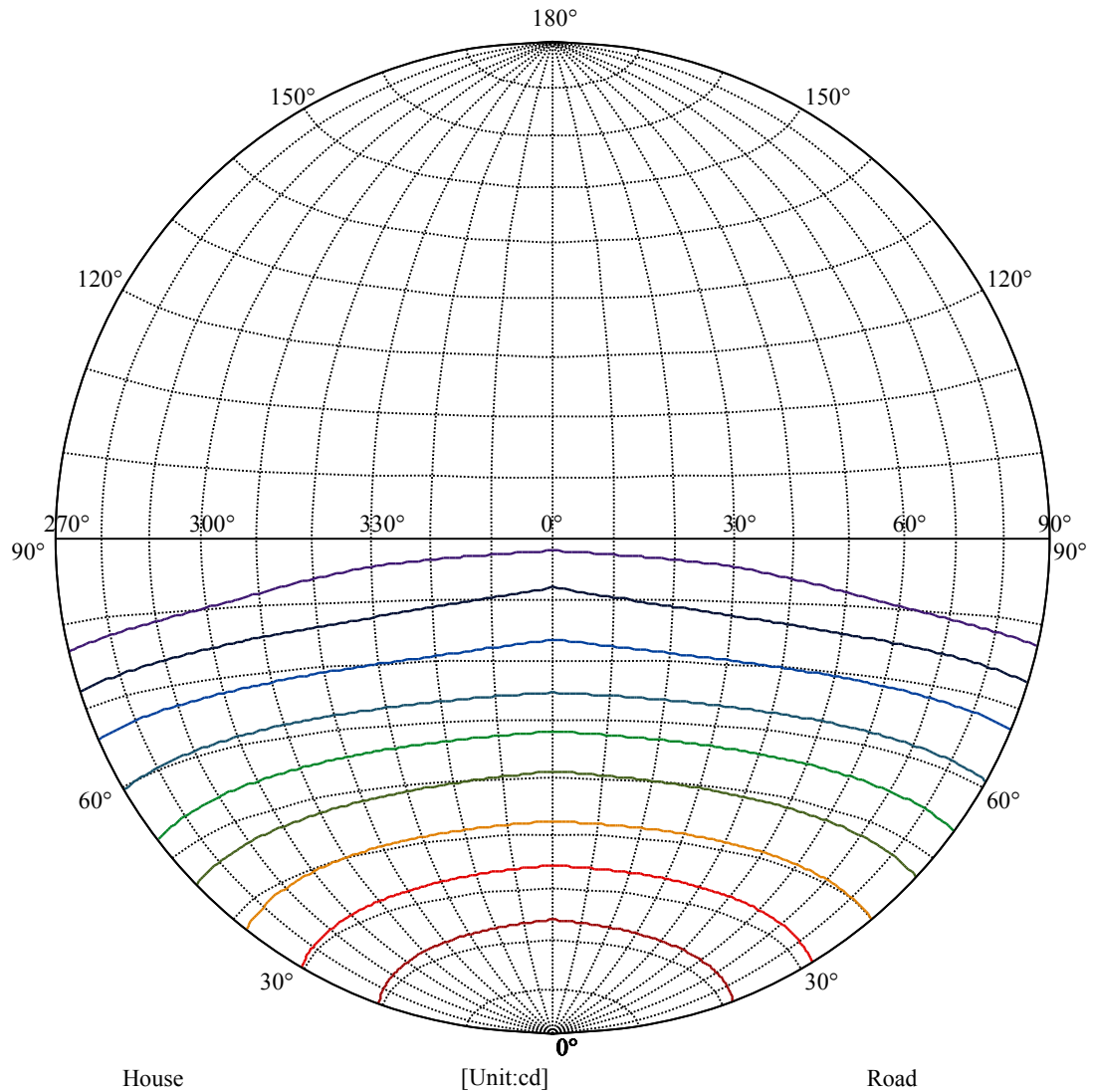
Output flux ratio in π solid angle : 75.840%





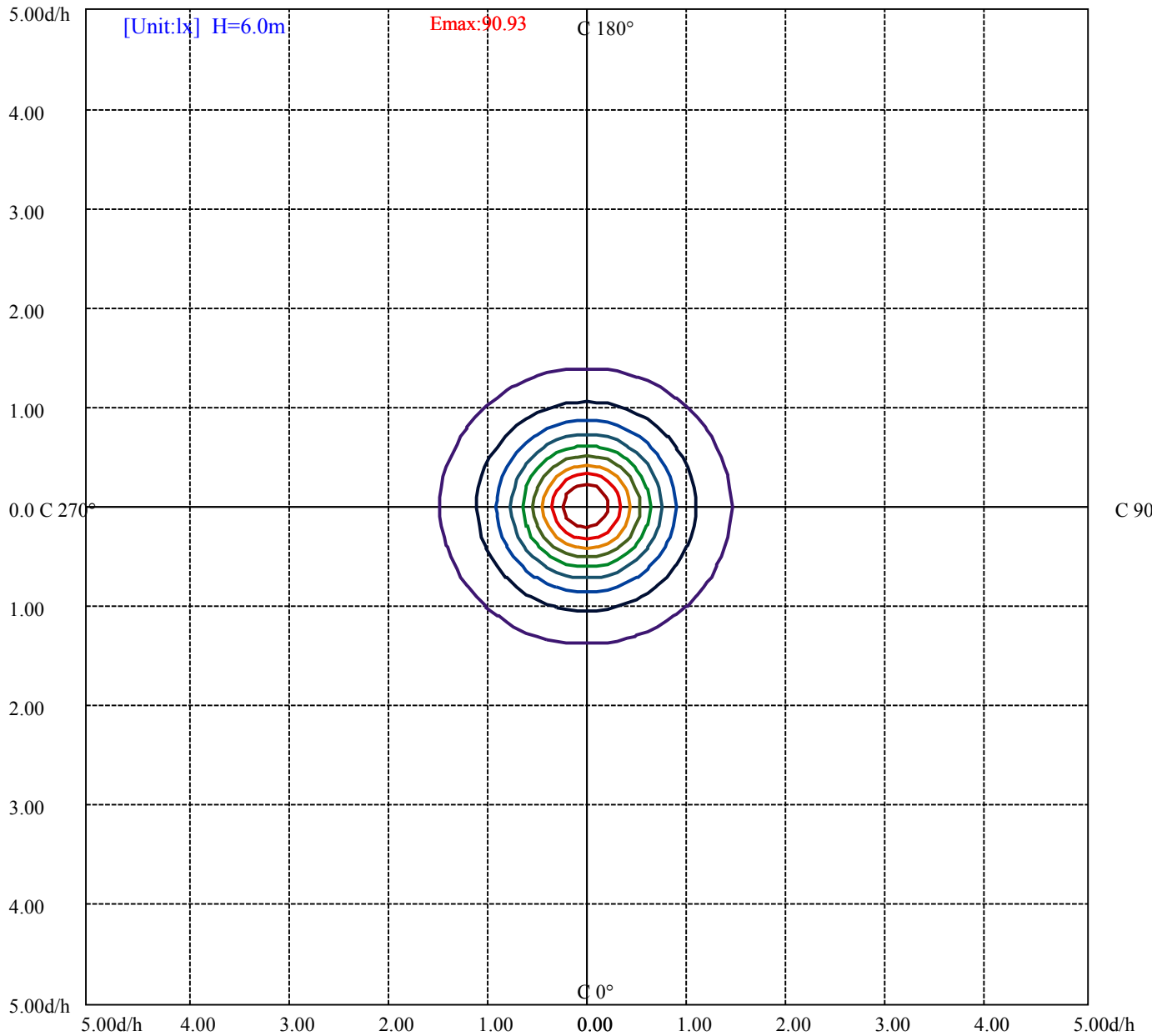
Beam angle of C90plane107.11



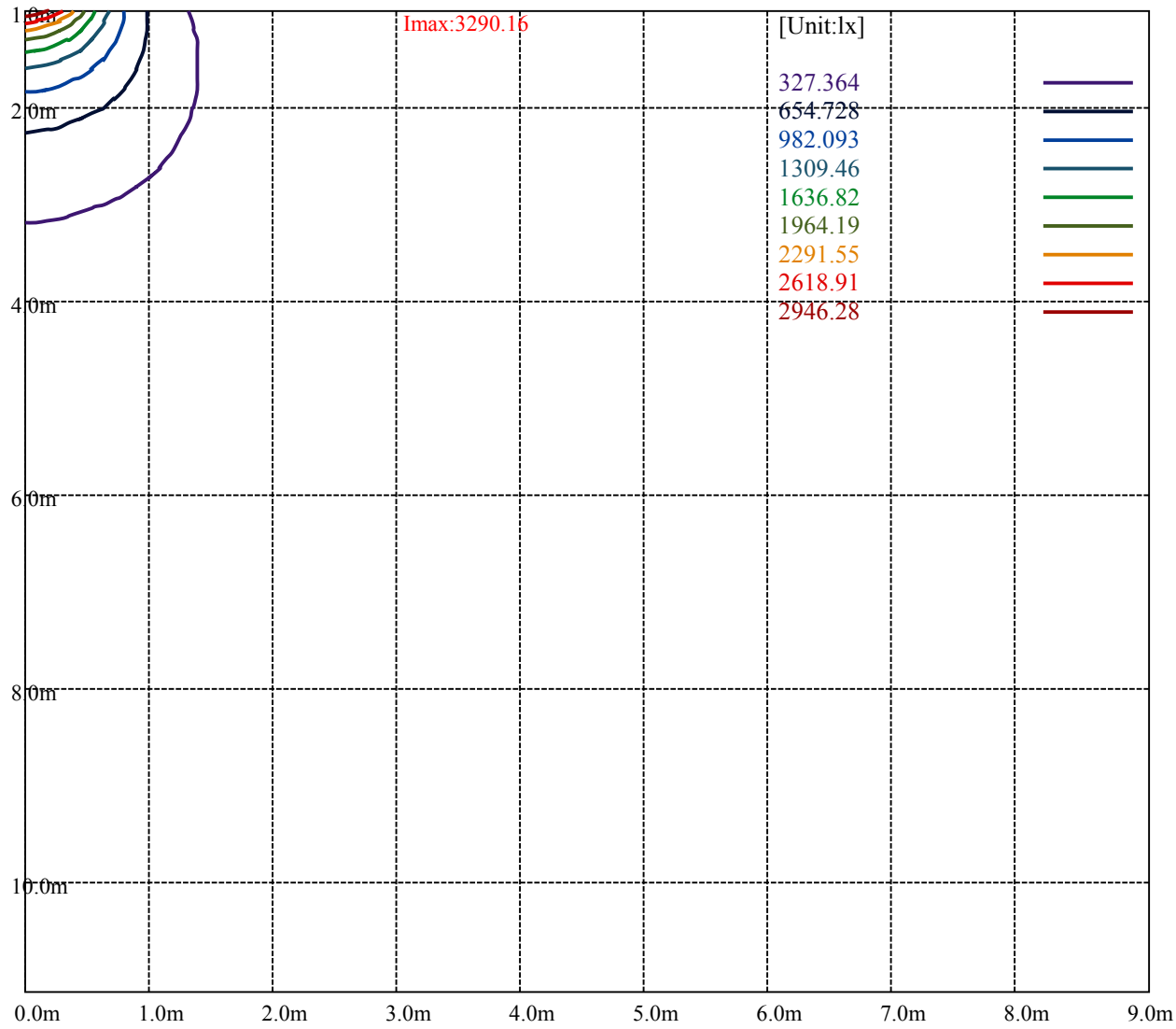


Imax:3290.16

(10%Imax)	329.016	
(20%Imax)	658.031	
(30%Imax)	987.047	
(40%Imax)	1316.06	
(50%Imax)	1645.08	
(60%Imax)	1974.09	
(70%Imax)	2303.11	
(80%Imax)	2632.12	
(90%Imax)	2961.14	



(10%Emax)	9.093445	—
(20%Emax)	18.18692	—
(30%Emax)	27.28036	—
(40%Emax)	36.37389	—
(50%Emax)	45.46722	—
(60%Emax)	54.56083	—
(70%Emax)	63.65417	—
(80%Emax)	72.7475	—
(90%Emax)	81.84111	—



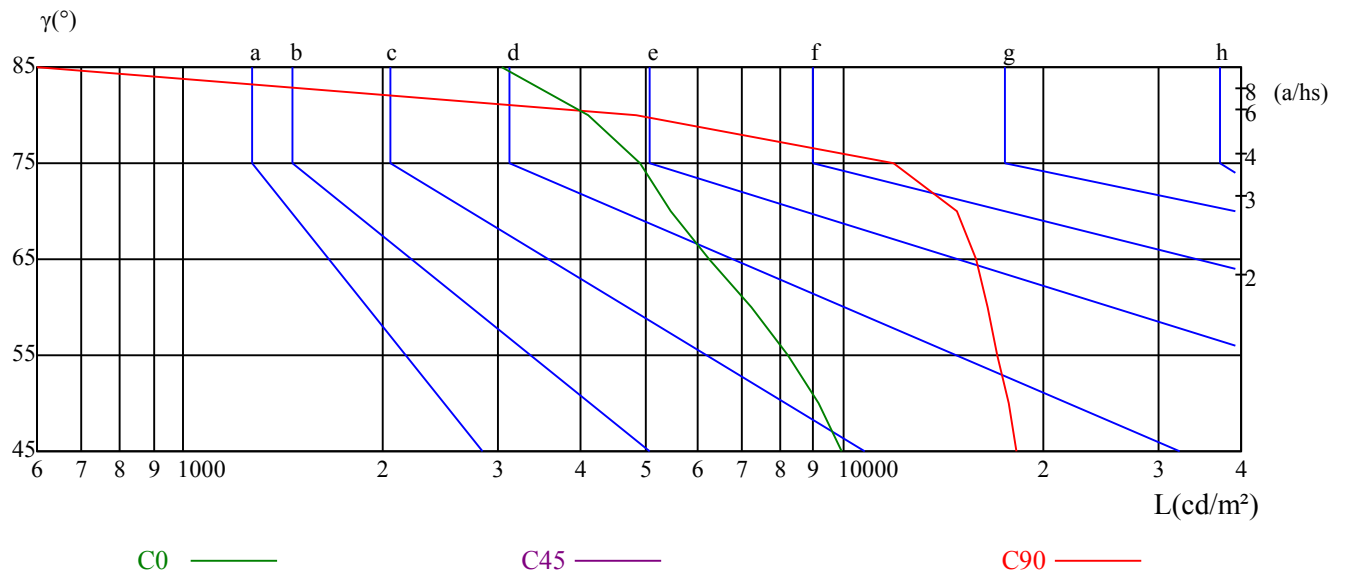
Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	9961	9185	8254	7258	6251	5483	4914	4113	3044
C45	0	0	0	0	0	0	0	0	0
C90	18257	17736	17111	16542	15839	14888	11920	4847	571

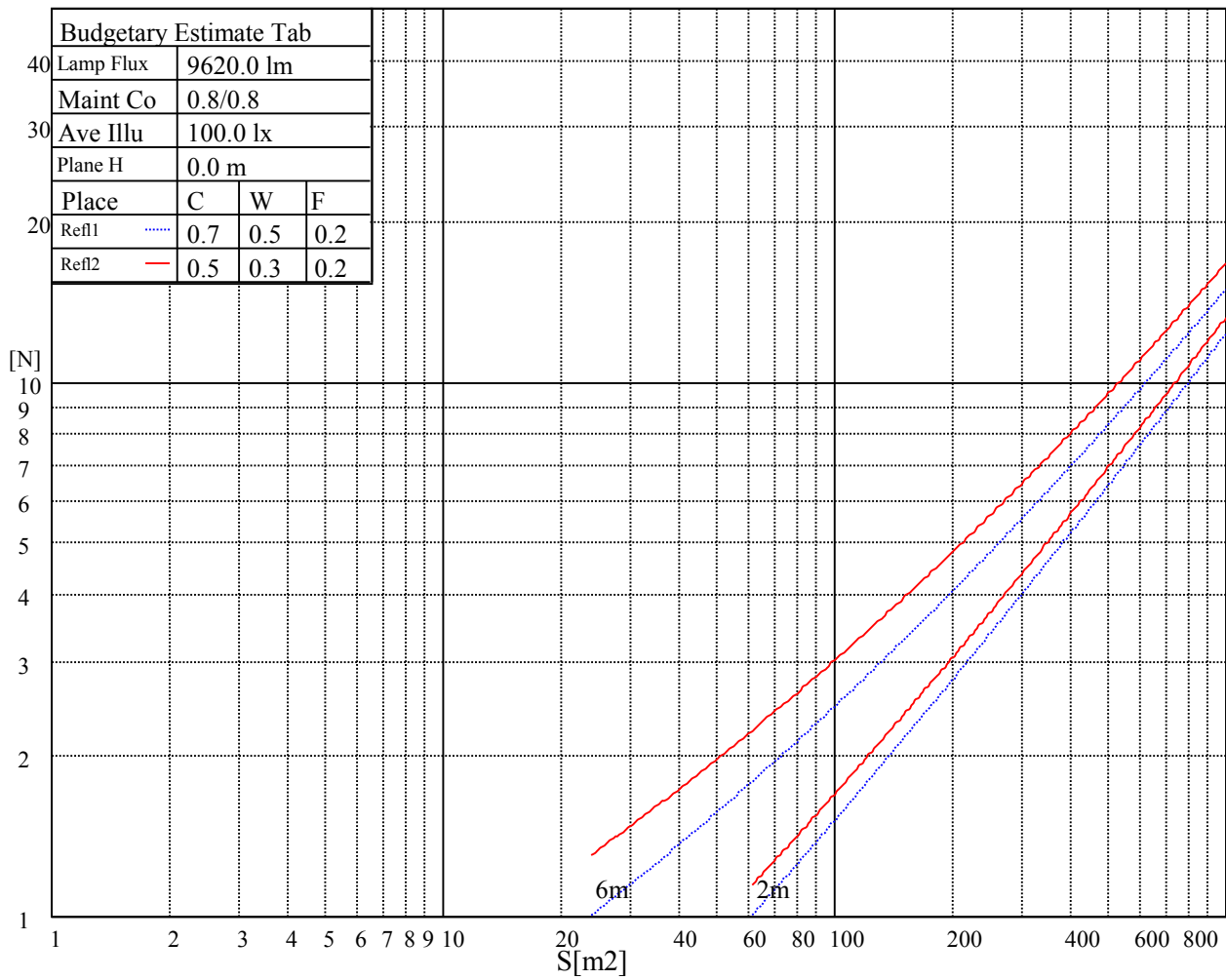
Glare Table

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	12.2	13.6	12.5	13.8	14.1	12.4	13.8	12.7	14.1	14.3
	3H	13.7	15.0	14.0	15.2	15.5	14.0	15.3	14.4	15.6	15.9
	4H	14.2	15.3	14.6	15.7	16.0	14.4	15.5	14.8	15.9	16.2
	6H	14.9	16.0	15.3	16.3	16.7	14.7	15.8	15.1	16.1	16.5
	8H	15.2	16.3	15.6	16.6	17.0	14.7	15.8	15.1	16.1	16.5
	12H	15.3	16.1	15.7	16.5	16.9	14.5	15.4	15.0	15.8	16.2
4H	2H	12.6	13.7	13.0	14.1	14.4	12.8	13.9	13.2	14.3	14.6
	3H	14.3	15.2	14.8	15.6	16.0	14.6	15.5	15.1	15.9	16.3
	4H	15.2	16.1	15.7	16.5	16.9	15.4	16.2	15.8	16.6	17.0
	6H	16.0	16.9	16.5	17.3	17.7	15.7	16.5	16.2	16.9	17.4
	8H	16.2	16.7	16.7	17.2	17.7	15.6	16.1	16.1	16.6	17.1
	12H	16.5	17.0	17.0	17.5	18.0	15.6	16.1	16.1	16.6	17.1
8H	4H	15.5	16.0	16.0	16.4	16.9	15.6	16.1	16.1	16.5	17.1
	6H	16.4	16.9	16.9	17.3	17.8	16.0	16.5	16.5	17.0	17.5
	8H	16.8	17.3	17.3	17.7	18.3	16.1	16.6	16.6	17.1	17.6
	12H	17.2	17.6	17.7	18.1	18.6	16.1	16.6	16.6	17.1	17.6
12H	4H	15.5	16.0	16.0	16.5	17.0	15.6	16.1	16.1	16.6	17.1
	6H	16.4	16.9	16.9	17.4	17.9	16.1	16.6	16.6	17.0	17.6
	8H	16.9	17.4	17.4	17.8	18.4	16.2	16.7	16.7	17.2	17.7
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.3/-0.5				
S = 1.5H		0.5/-0.6					0.7/-0.7				
S = 2.0H		0.6/-0.8					1.0/-0.8				
Standard tables:		BK3					BK3				
Uncorrected UGR		-2.1					-2.4				
According 1000lm											



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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.03	0.98	0.94	1.00	0.96	0.93	0.96	0.93	0.90	0.92	0.89	0.87	0.88	0.86	0.84	0.82
2	0.89	0.82	0.76	0.87	0.81	0.75	0.84	0.78	0.73	0.80	0.76	0.72	0.77	0.73	0.70	0.68
3	0.78	0.70	0.63	0.76	0.69	0.62	0.73	0.67	0.61	0.71	0.65	0.60	0.68	0.63	0.59	0.57
4	0.69	0.60	0.53	0.68	0.59	0.53	0.65	0.58	0.52	0.63	0.56	0.51	0.60	0.55	0.50	0.48
5	0.62	0.52	0.46	0.60	0.52	0.45	0.58	0.51	0.45	0.56	0.49	0.44	0.54	0.48	0.44	0.42
6	0.55	0.46	0.40	0.54	0.46	0.39	0.53	0.45	0.39	0.51	0.44	0.39	0.49	0.43	0.38	0.36
7	0.50	0.41	0.35	0.49	0.41	0.35	0.48	0.40	0.35	0.46	0.39	0.34	0.45	0.39	0.34	0.32
8	0.46	0.37	0.31	0.45	0.37	0.31	0.44	0.36	0.31	0.42	0.36	0.31	0.41	0.35	0.30	0.28
9	0.42	0.34	0.28	0.41	0.33	0.28	0.40	0.33	0.28	0.39	0.32	0.28	0.38	0.32	0.27	0.26
10	0.39	0.31	0.25	0.38	0.31	0.25	0.37	0.30	0.25	0.36	0.30	0.25	0.35	0.29	0.25	0.23

