
Nata

LumCAT: 4-2222-A
Luminaire: BJB 47.319.2141
Report No: GC2017041509
Test No: NT-0010
LampCAT: BRIDGELUX V18B
Lamp flux(lm): 3874.0
Number of Lamps: 1
Length(mm): 100
Phm Type: C

Voltage(V): 35.0000
Current(A): 0.8000
Power (W): 28.0000
PF: 0.0000
Ballast type: DC
Width(mm): 100
Height(mm): 0

Photometric Results

Lumens(lm): 3479.55
Efficiency(%): 89.82%
Lumens(lm)/Power(W): 124.27
Central intensity(cd): 4013.611
Maximum intensity(cd): 4013.611
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=61.3
 [C90/270]Total=61.3
Field angle(10%Imax): [C0/180]Total=78.3
 [C90/270]Total=78.3
Maximum s/h(1/2): C0_180=0.97 C90_270=0.97
Maximum s/h(1/4): C0_180=0.90 C90_270=0.90
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.82%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.701%

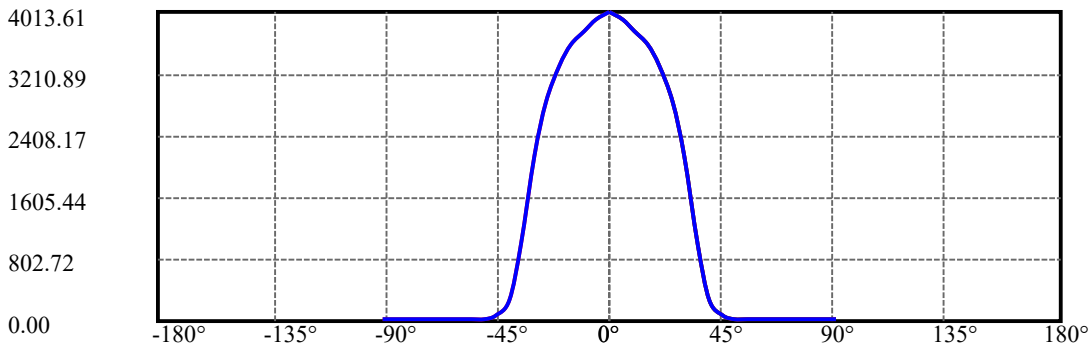
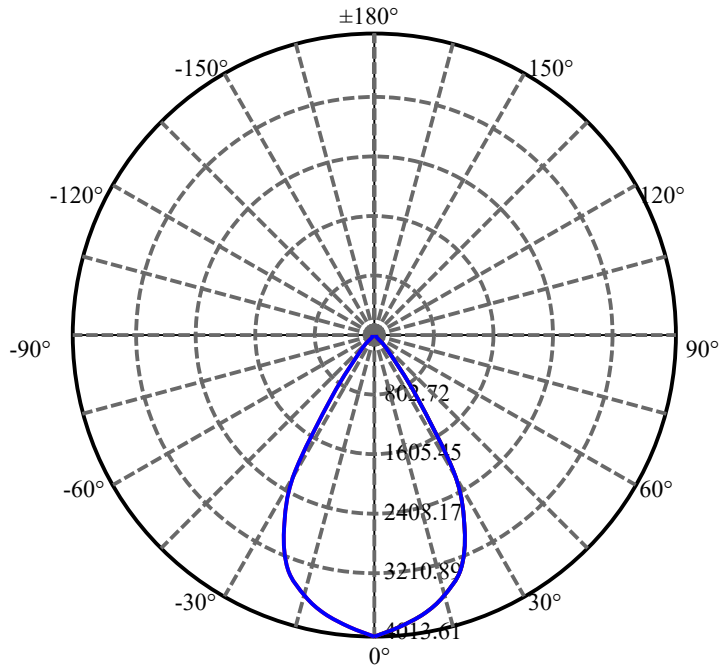
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4013.612	0.000	0	.000%	.000%
5.0	3912.101	94.750	94.75	2.446%	2.723%
10.0	3762.692	274.552	369.301	7.087%	10.613%
15.0	3595.045	436.456	805.757	11.266%	23.157%
20.0	3326.645	570.445	1376.202	14.725%	39.551%
25.0	2849.582	647.772	2023.974	16.721%	58.168%
30.0	2153.669	633.166	2657.14	16.344%	76.364%
35.0	1002.109	464.710	3121.85	11.996%	89.720%
40.0	274.745	213.033	3334.883	5.499%	95.842%
45.0	66.068	63.104	3397.988	1.629%	97.656%
50.0	27.308	18.868	3416.856	.487%	98.198%
55.0	17.721	9.791	3426.646	.253%	98.480%
60.0	15.677	7.720	3434.366	.199%	98.701%
65.0	14.810	7.412	3441.778	.191%	98.914%
70.0	14.342	7.382	3449.16	.191%	99.127%
75.0	14.108	7.436	3456.596	.192%	99.340%
80.0	14.273	7.594	3464.19	.196%	99.559%
85.0	14.067	7.701	3471.891	.199%	99.780%
90.0	13.909	7.660	3479.551	.198%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2657.14	68.59%	76.36%
0-40	3334.88	86.08%	95.84%
0-60	3434.37	88.65%	98.70%
0-90	3471.89	89.62%	99.78%
0-120	3471.89	89.62%	99.78%
0-180	3479.55	89.82%	100.00%
60-90	45.24	1.17%	1.30%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-31.36	2783.64	71.85%	80.00%

ZONAL LUMEN SUMMARY

0-10	369.30
10-20	1006.90
20-30	1280.94
30-40	677.74
40-50	81.97
50-60	17.51
60-70	14.79
70-80	15.03
80-90	7.70
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



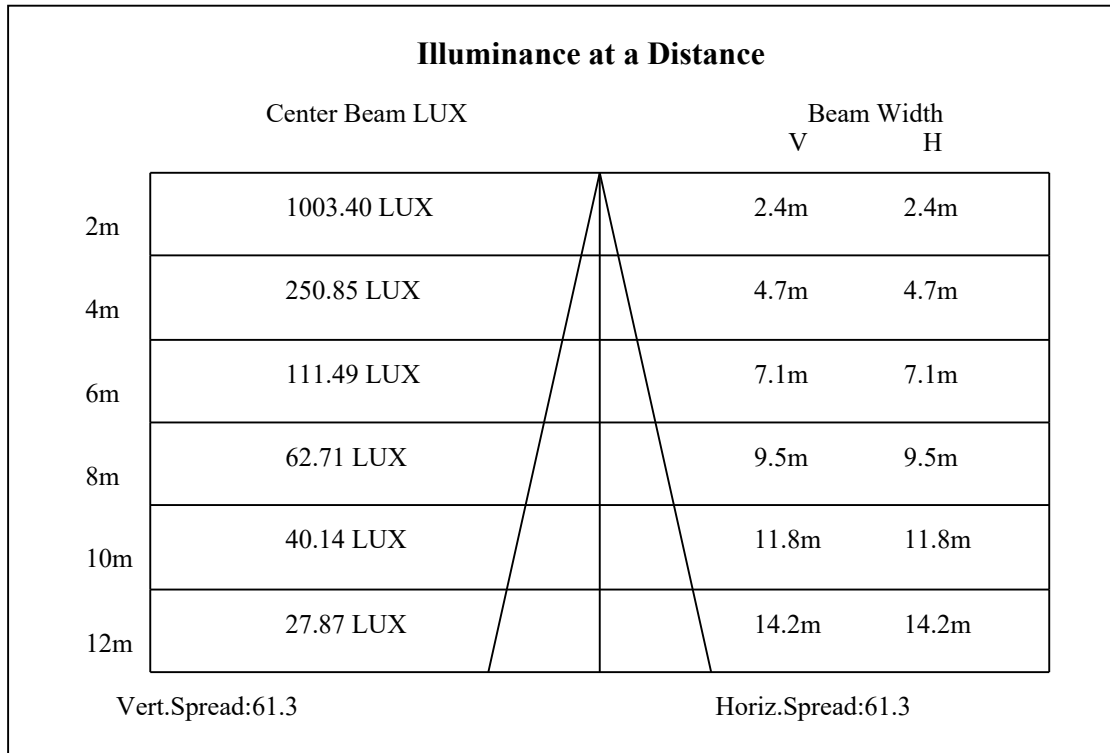
C0(Max): —————

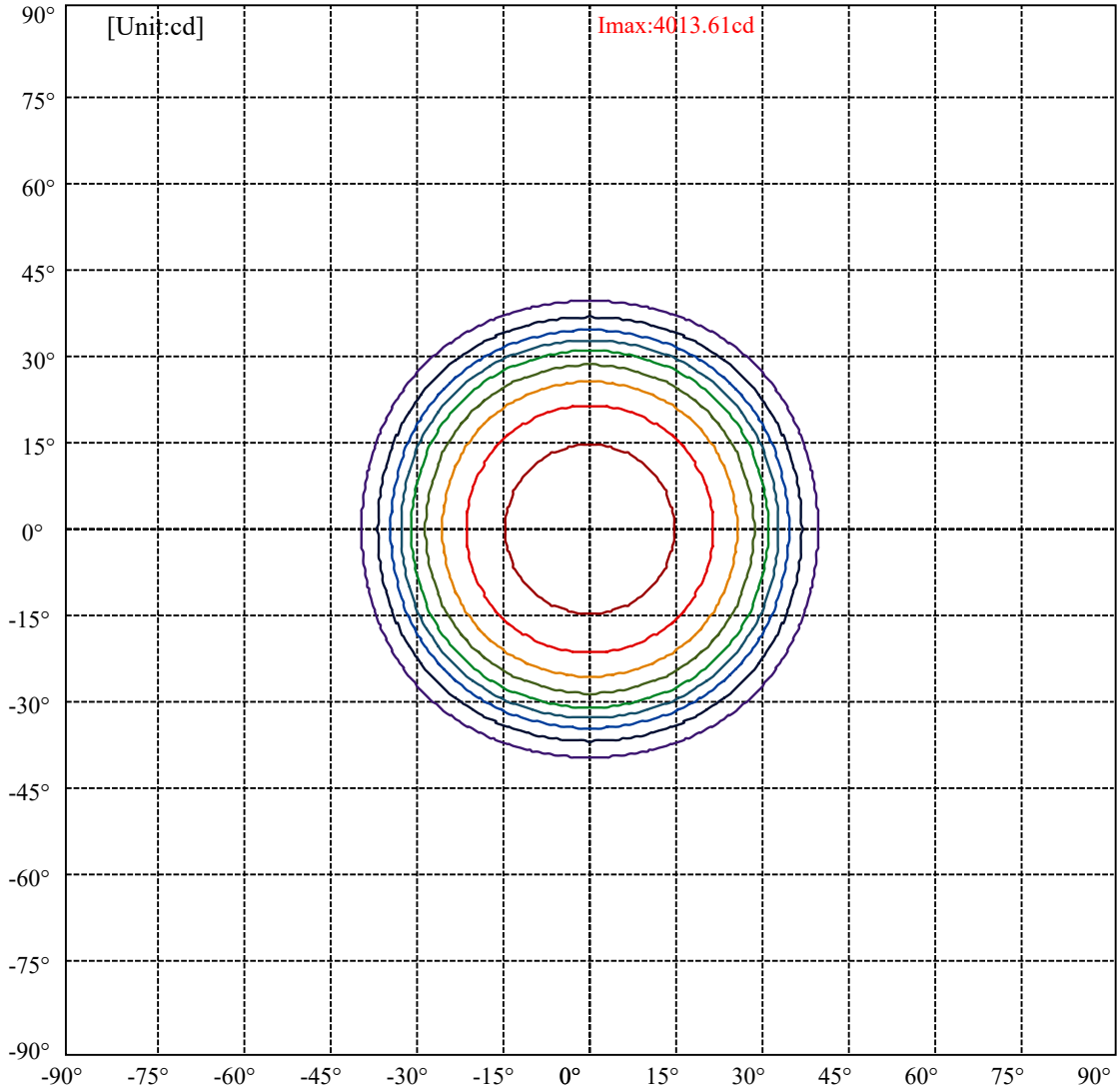
C0/C180: —————

C90/C270: —————

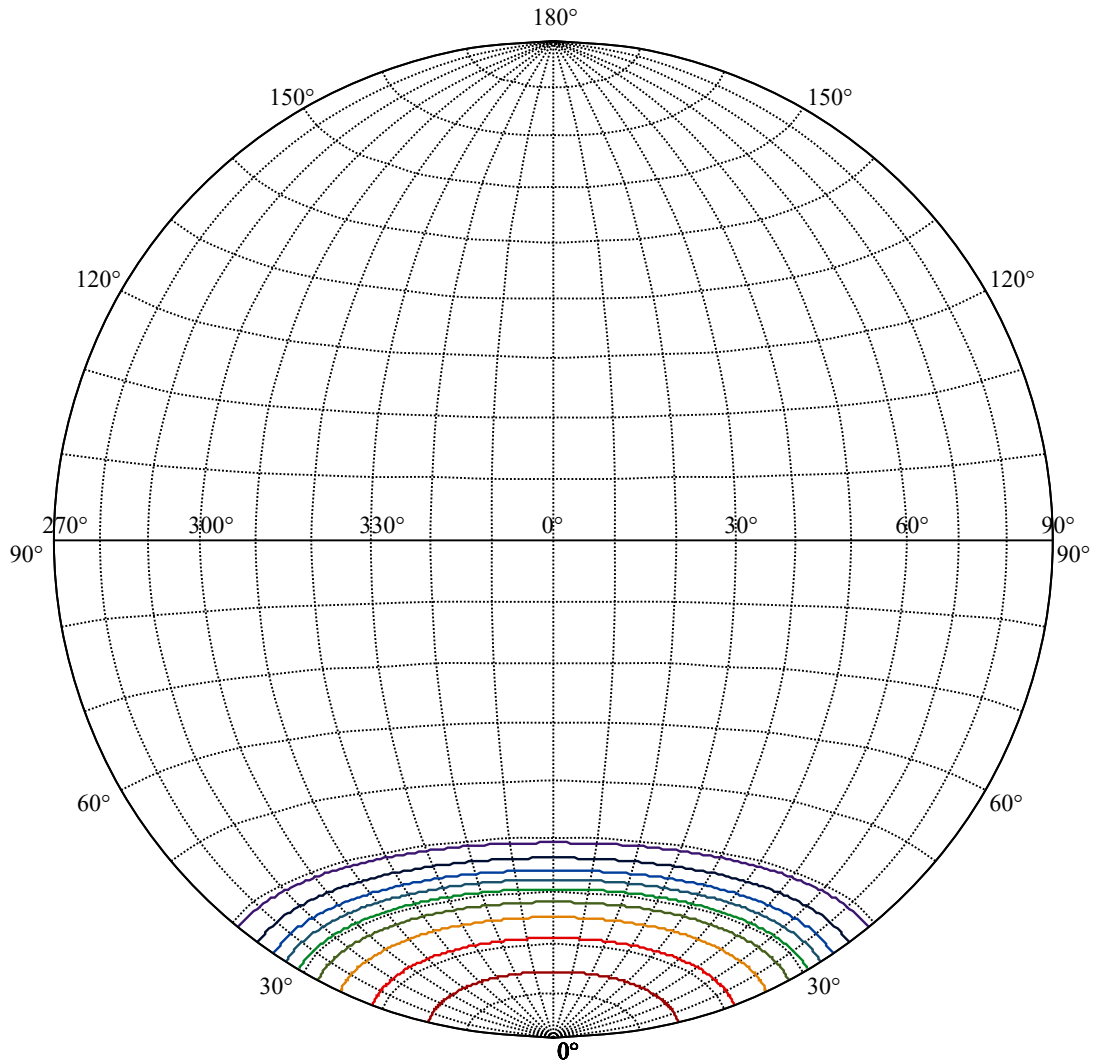
Field angle(10%Imax):C0/180Left:39.1 Right:39.1
:C90/270Left:39.1 Right:39.1

Beam Angle(50%Imax):C0/180Left:30.6 Right:30.6
:C90/270Left:30.6 Right:30.6





(10%Imax) 401.361	—
(20%Imax) 802.722	—
(30%Imax) 1204.08	—
(40%Imax) 1605.44	—
(50%Imax) 2006.81	—
(60%Imax) 2408.17	—
(70%Imax) 2809.53	—
(80%Imax) 3210.89	—
(90%Imax) 3612.25	—



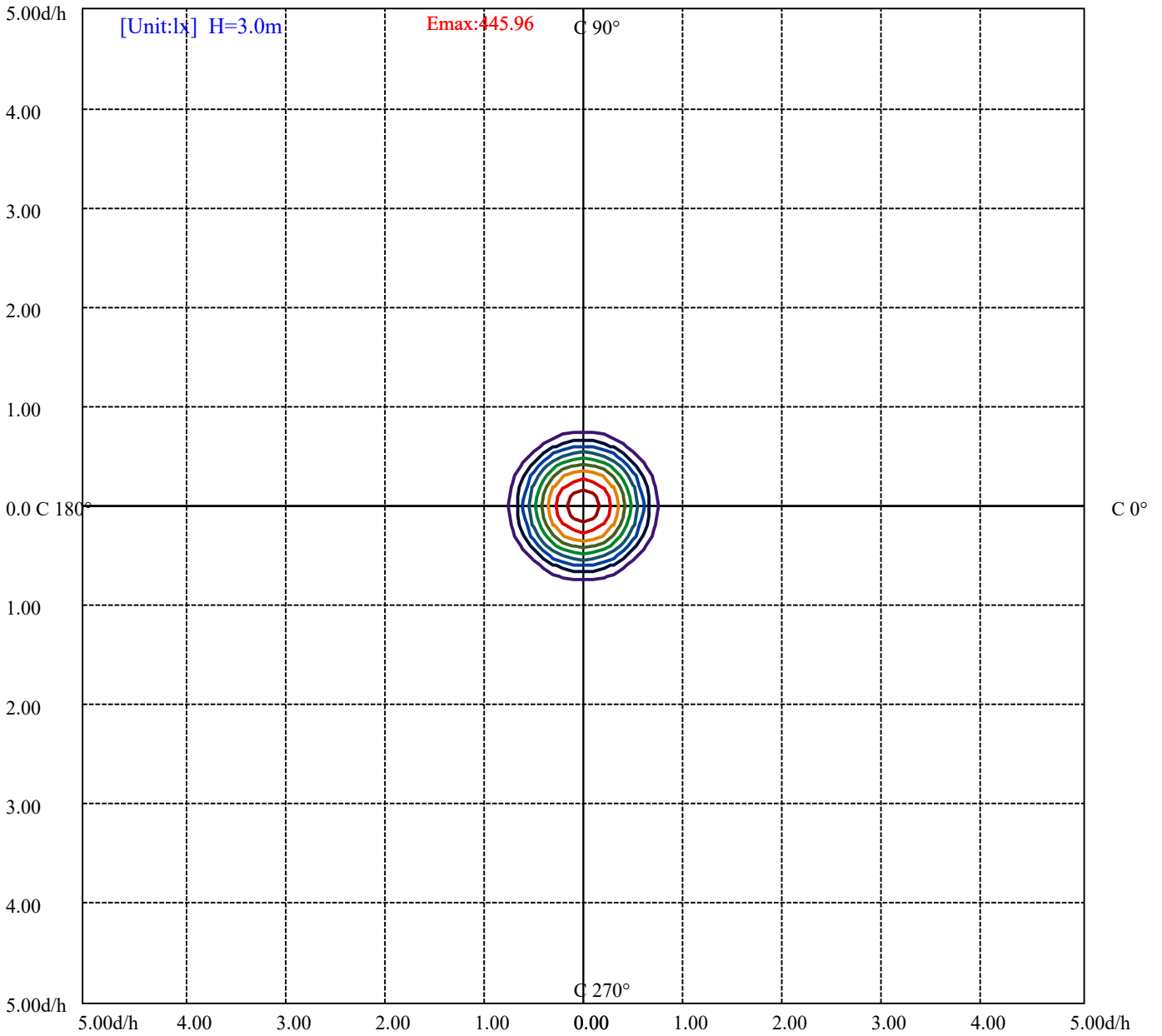
House

[Unit:cd]

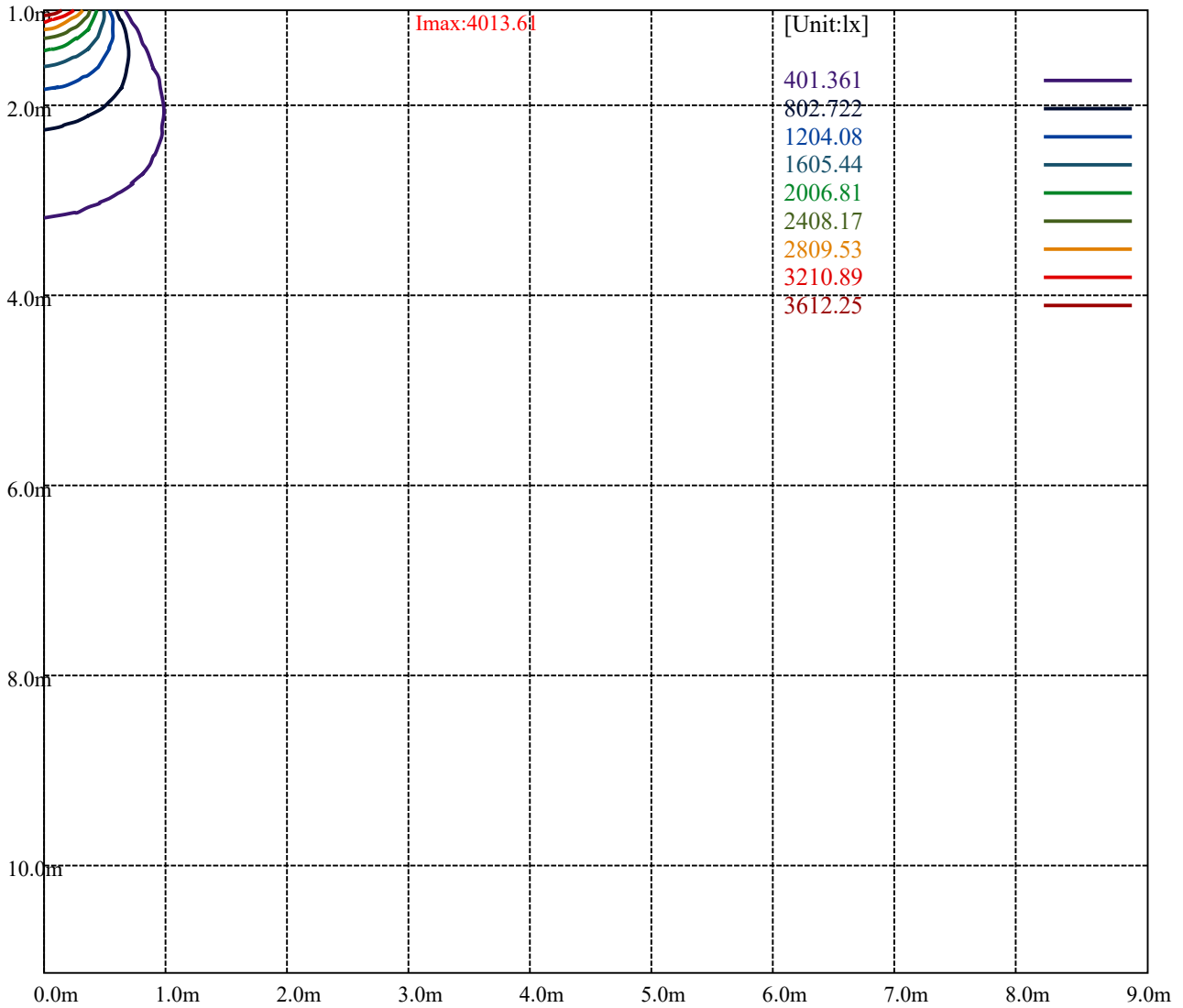
Road

Imax:4013.61

(10%Imax)	401.361	—
(20%Imax)	802.722	—
(30%Imax)	1204.08	—
(40%Imax)	1605.44	—
(50%Imax)	2006.81	—
(60%Imax)	2408.17	—
(70%Imax)	2809.53	—
(80%Imax)	3210.89	—
(90%Imax)	3612.25	—



- (10%Emax) 44.59566
- (20%Emax) 89.19133
- (30%Emax) 133.7867
- (40%Emax) 178.3822
- (50%Emax) 222.9778
- (60%Emax) 267.5733
- (70%Emax) 312.17
- (80%Emax) 356.7655
- (90%Emax) 401.3611



Luminance Table

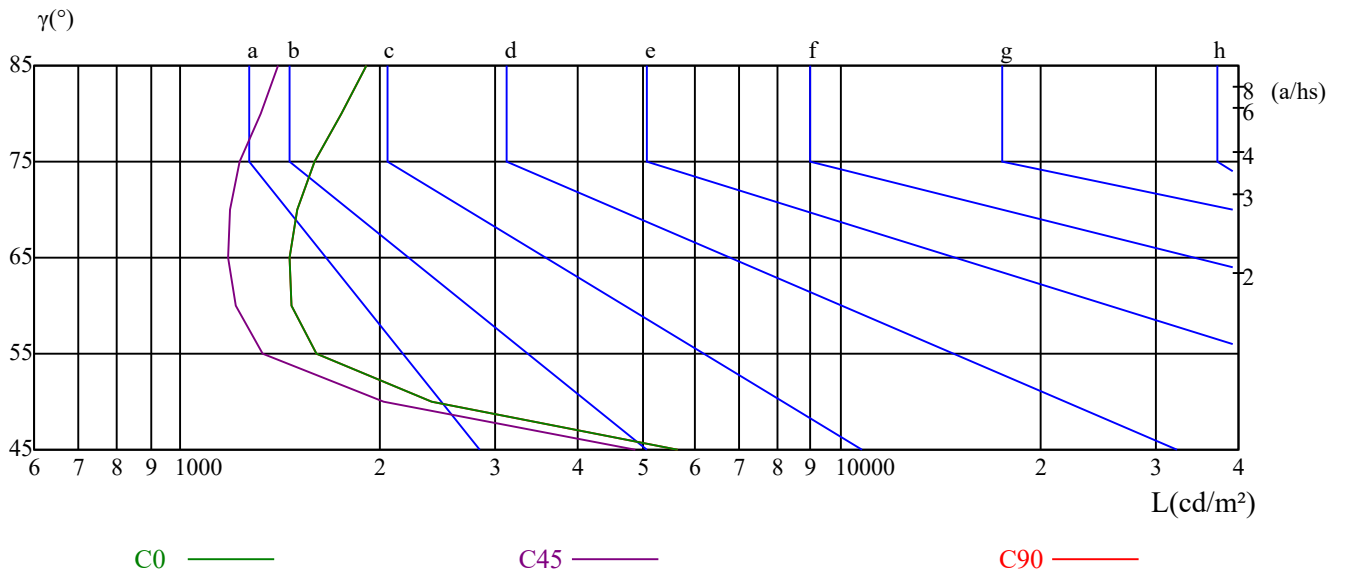
γ	45	50	55	60	65	70	75	80	85
C0	5663	2394	1602	1475	1464	1505	1591	1754	1915
C45	4868	2027	1336	1210	1179	1189	1230	1323	1403
C90	5663	2394	1602	1475	1464	1505	1591	1754	1915

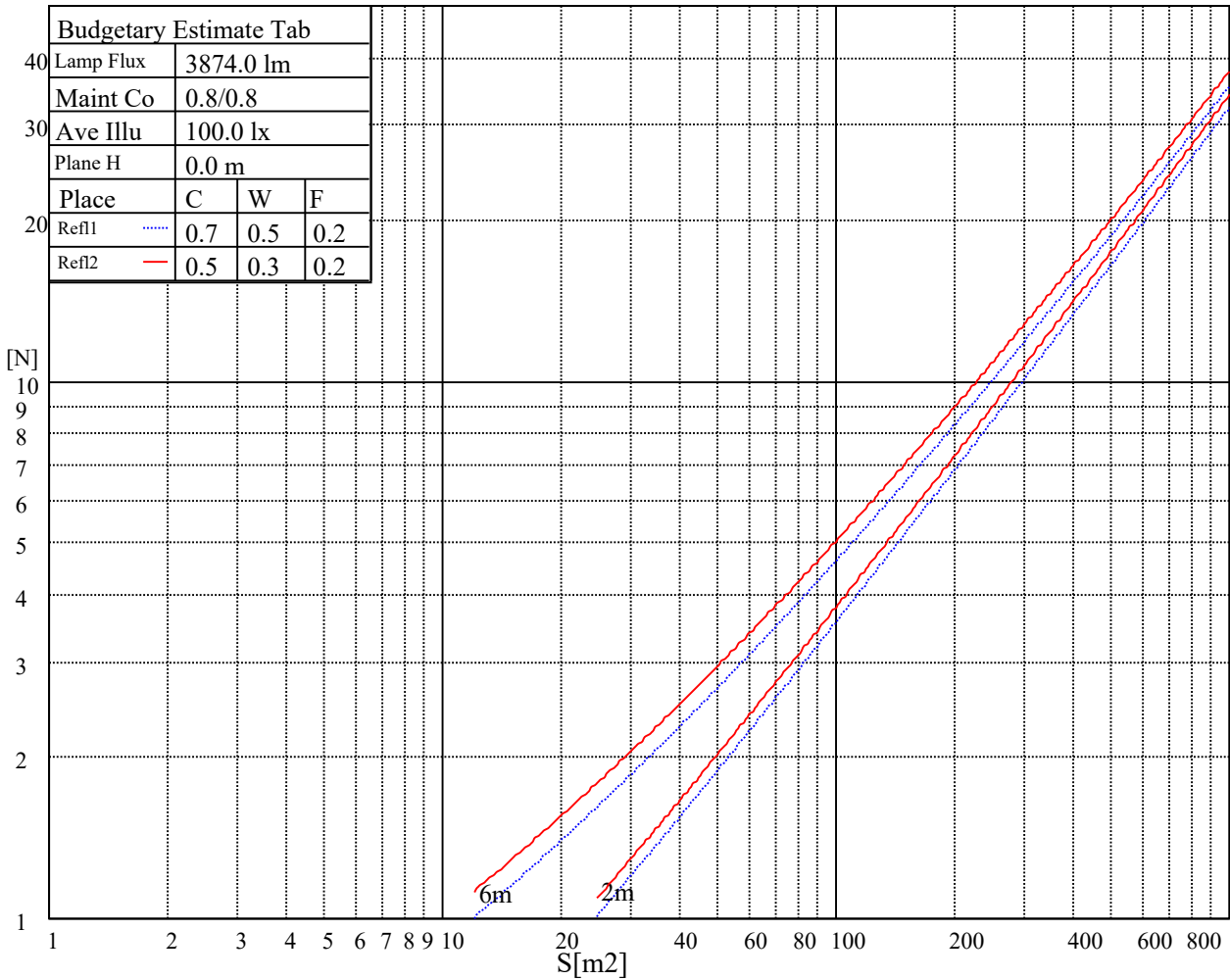
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3504	3504	3504	5451	5451	5451	16140	16140	16140

Glare Table

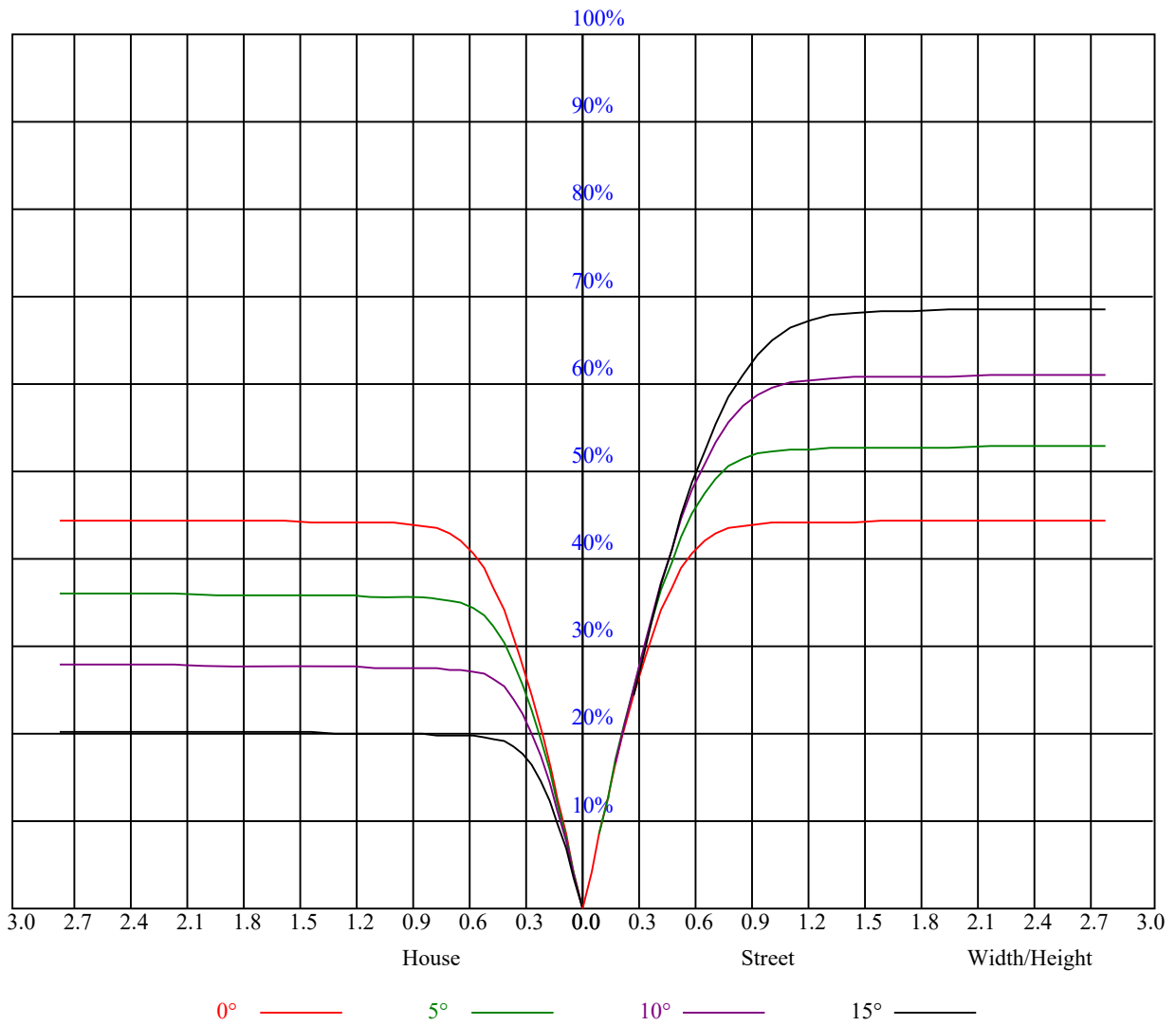
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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	1.07	1.07	1.07	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	0.99	0.97	0.95	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84
2	0.93	0.89	0.86	0.91	0.88	0.85	0.88	0.86	0.83	0.86	0.83	0.81	0.83	0.81	0.80	0.78
3	0.87	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.73
4	0.81	0.76	0.73	0.80	0.76	0.72	0.78	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.68
5	0.76	0.71	0.67	0.75	0.71	0.67	0.74	0.70	0.66	0.72	0.69	0.66	0.71	0.68	0.65	0.64
6	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.61	0.60
7	0.68	0.62	0.59	0.67	0.62	0.59	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.56
8	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.54	0.61	0.57	0.54	0.53
9	0.60	0.55	0.52	0.60	0.55	0.52	0.59	0.55	0.51	0.58	0.54	0.51	0.58	0.54	0.51	0.50
10	0.57	0.52	0.49	0.57	0.52	0.49	0.56	0.52	0.49	0.55	0.51	0.48	0.55	0.51	0.48	0.47



Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	4014.71	3857.80	3699.79	3533.52	3203.73	2675.74	1982.03	731.15	134.89
45.0	4020.77	3935.98	3753.75	3639.23	3360.09	2965.34	2307.41	1153.98	283.54
90.0	4021.32	3918.91	3745.49	3627.12	3354.59	2902.57	2255.66	1041.01	242.96
135.0	3997.65	3948.09	3784.58	3660.70	3467.45	3096.92	2516.08	1567.46	490.55
180.0	4014.71	3939.84	3782.37	3584.17	3371.65	3021.50	2393.85	1096.67	401.91
225.0	4020.77	3894.69	3771.91	3567.65	3297.88	2765.48	2043.69	911.24	198.59
270.0	4021.32	3926.62	3827.52	3628.77	3368.90	2802.92	2042.04	913.94	300.06
315.0	3997.65	3874.87	3736.13	3519.21	3188.87	2566.18	1688.58	601.44	145.46
360.0	4014.71	3857.80	3699.79	3533.52	3203.73	2675.74	1982.03	731.15	134.89

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	46.08	23.62	17.23	15.53	14.76	14.42	14.20	15.86	14.37
45.0	53.62	24.56	17.34	15.80	14.92	14.42	14.15	14.09	14.09
90.0	49.77	23.56	17.01	15.53	14.76	14.26	14.04	13.98	13.93
135.0	87.54	30.06	18.17	15.91	15.03	14.42	14.09	14.04	13.98
180.0	94.59	34.96	19.32	15.91	14.92	14.42	14.15	14.04	13.98
225.0	70.47	27.69	17.34	15.58	14.76	14.26	14.09	14.09	13.98
270.0	75.26	29.29	18.06	15.69	14.76	14.31	14.09	14.04	13.98
315.0	51.20	24.72	17.29	15.47	14.59	14.20	14.04	14.04	14.20
360.0	46.08	23.62	17.23	15.53	14.76	14.42	14.20	15.86	14.37

C/γ(°)	90.0
0.0	13.87
45.0	13.98
90.0	13.93
135.0	13.87
180.0	13.82
225.0	13.98
270.0	13.93
315.0	13.87
360.0	13.87