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Nata

LumCAT: 2-1259-N
Luminaire: 92.70.065.00+92.70.059.00
Report No: NATA0100
Test No: GC20180712004
LampCAT: BRIDGELUX V9 HD
Lamp flux(lm): 1191.0
Number of Lamps: 1
Length(mm): 70
Phm Type: C

Voltage(V): 34.1000
Current(A): 0.3000
Power (W): 10.2300
PF: 0.0000
Ballast type: DC
Width(mm): 70
Height(mm): 0

Photometric Results

Lumens(lm): 923.01
Efficiency(%): 77.50%
Lumens(lm)/Power(W): 90.23
Central intensity(cd): 2114.441
Maximum intensity(cd): 2114.441
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.9
 [C90/270]Total=34.9
Field angle(10%Imax): [C0/180]Total=61.9
 [C90/270]Total=61.9
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.57 C90_270=0.57
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 78.49%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.508%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/7/20
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

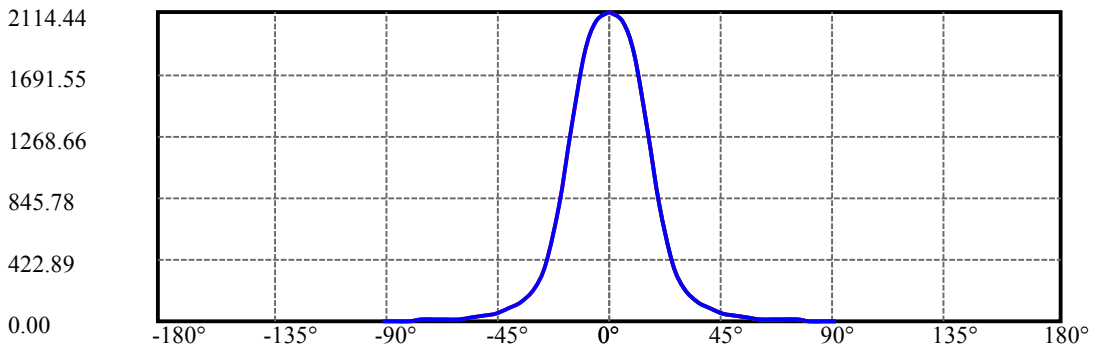
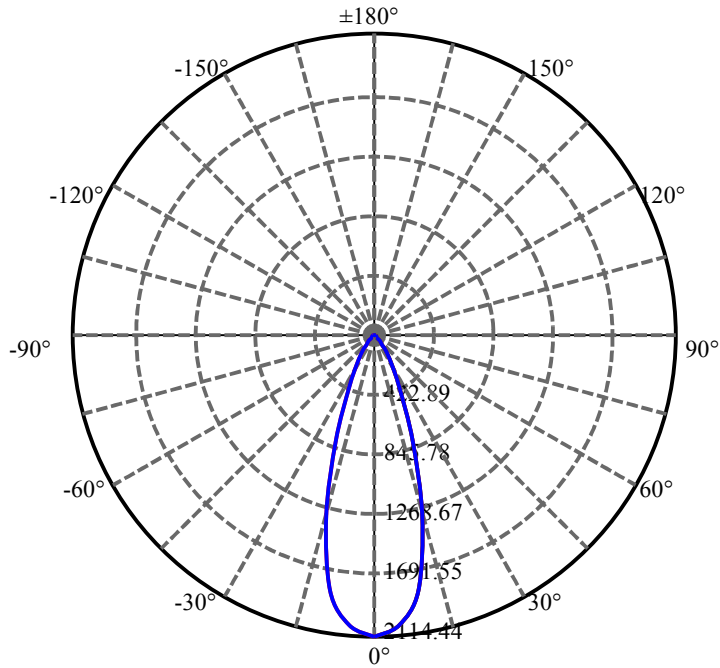
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2114.441	12.645	12.645	1.062%	1.370%
5.0	2047.960	97.838	110.483	8.215%	11.970%
10.0	1822.436	173.465	283.948	14.565%	30.763%
15.0	1304.747	185.102	469.05	15.542%	50.818%
20.0	794.746	148.994	618.044	12.510%	66.960%
25.0	400.480	92.772	710.817	7.789%	77.011%
30.0	229.743	62.965	773.782	5.287%	83.833%
35.0	131.014	41.190	814.973	3.458%	88.295%
40.0	90.478	31.879	846.851	2.677%	91.749%
45.0	56.584	21.932	868.783	1.841%	94.125%
50.0	36.571	15.356	884.139	1.289%	95.789%
55.0	23.550	10.574	894.713	.888%	96.935%
60.0	15.622	7.416	902.129	.623%	97.738%
65.0	10.729	5.330	907.459	.448%	98.315%
70.0	8.885	4.576	912.036	.384%	98.811%
75.0	7.405	3.921	915.956	.329%	99.236%
80.0	6.104	3.295	919.252	.277%	99.593%
85.0	4.845	2.646	921.897	.222%	99.880%
90.0	4.054	1.111	923.008	.093%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	773.78	64.97%	83.83%
0-40	846.85	71.10%	91.75%
0-60	902.13	75.75%	97.74%
0-90	921.90	77.41%	99.88%
0-120	921.90	77.41%	99.88%
0-180	923.01	77.50%	100.00%
60-90	27.18	2.28%	2.95%
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%
0-27.19	738.41	62.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	283.95
10-20	334.10
20-30	155.74
30-40	73.07
40-50	37.29
50-60	17.99
60-70	9.91
70-80	7.22
80-90	2.65
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: —————

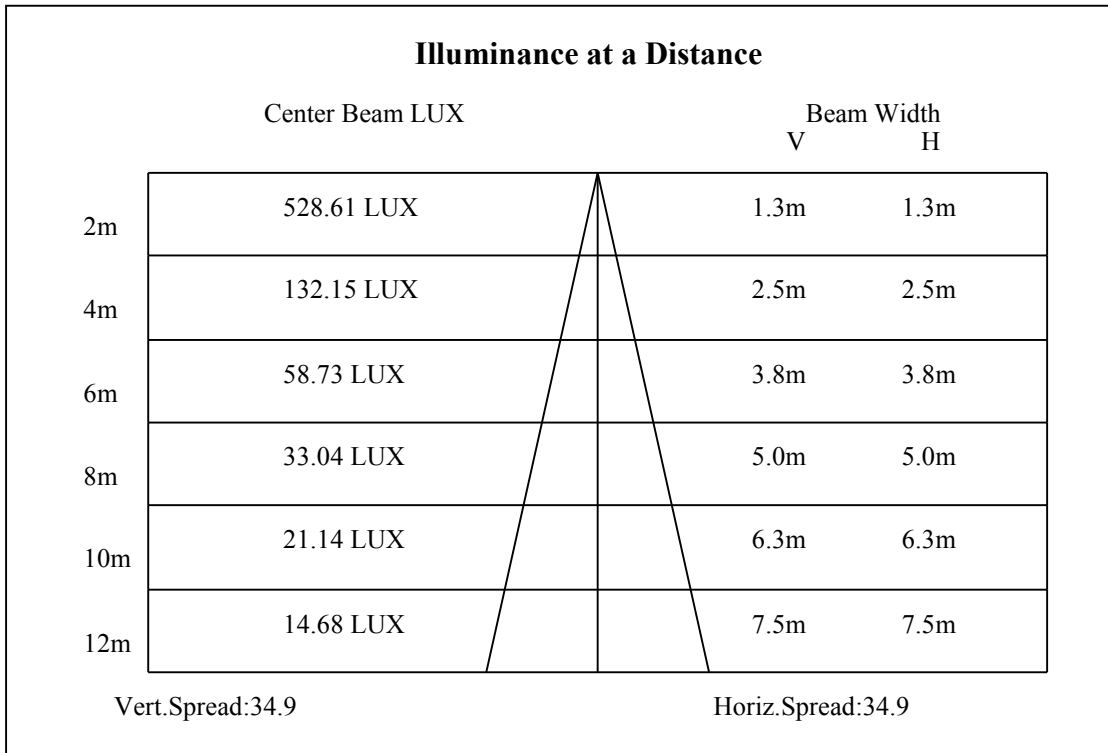
C90/C270: —————

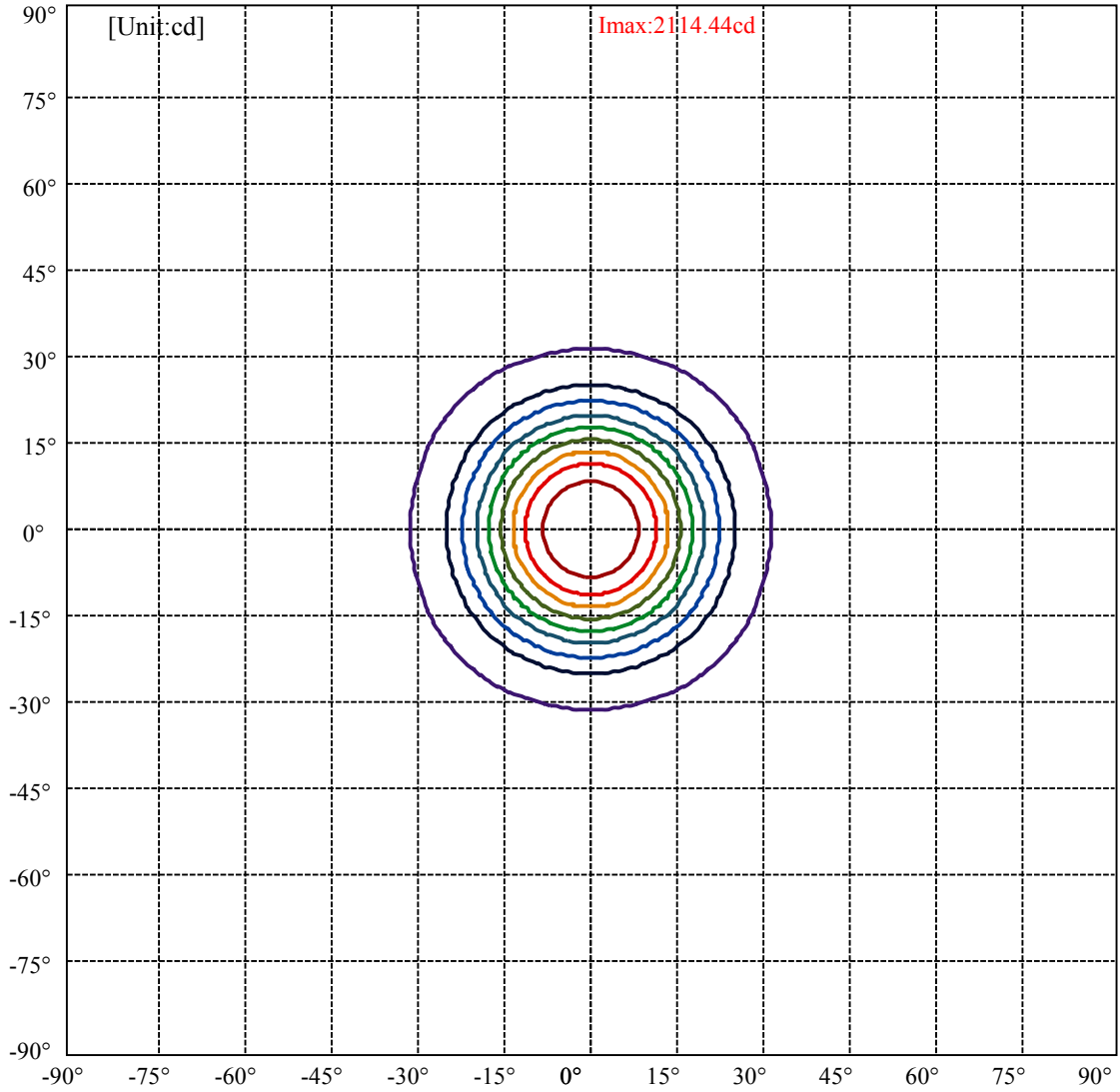
Field angle(10%Imax):C0/180Left:30.9 Right:30.9

:C90/270Left:30.9 Right:30.9

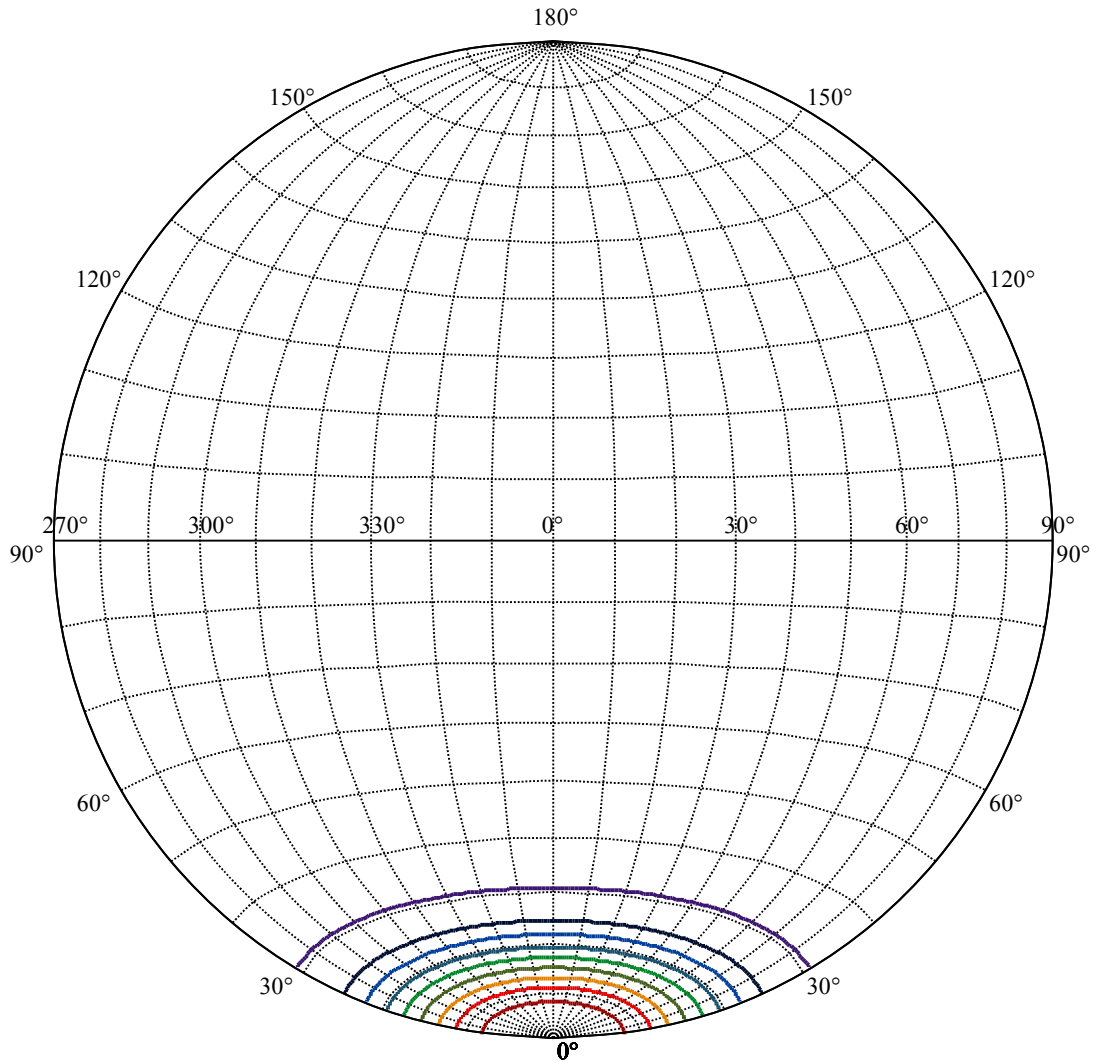
Beam Angle(50%Imax):C0/180Left:17.4 Right:17.4

:C90/270Left:17.4 Right:17.4





(10%Imax) 211.444	—
(20%Imax) 422.888	—
(30%Imax) 634.332	—
(40%Imax) 845.776	—
(50%Imax) 1057.22	—
(60%Imax) 1268.66	—
(70%Imax) 1480.11	—
(80%Imax) 1691.55	—
(90%Imax) 1903	—



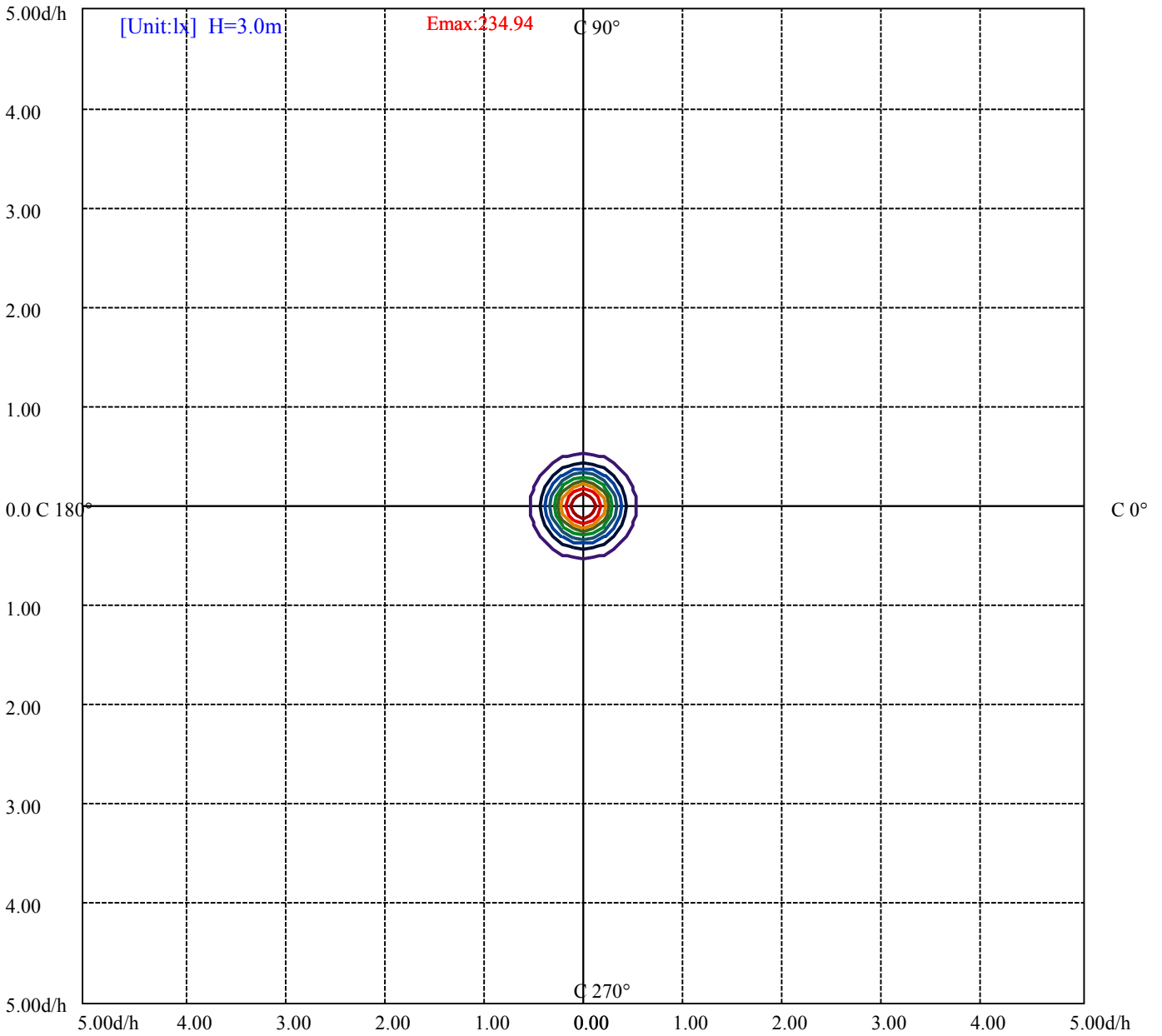
House

[Unit:cd]

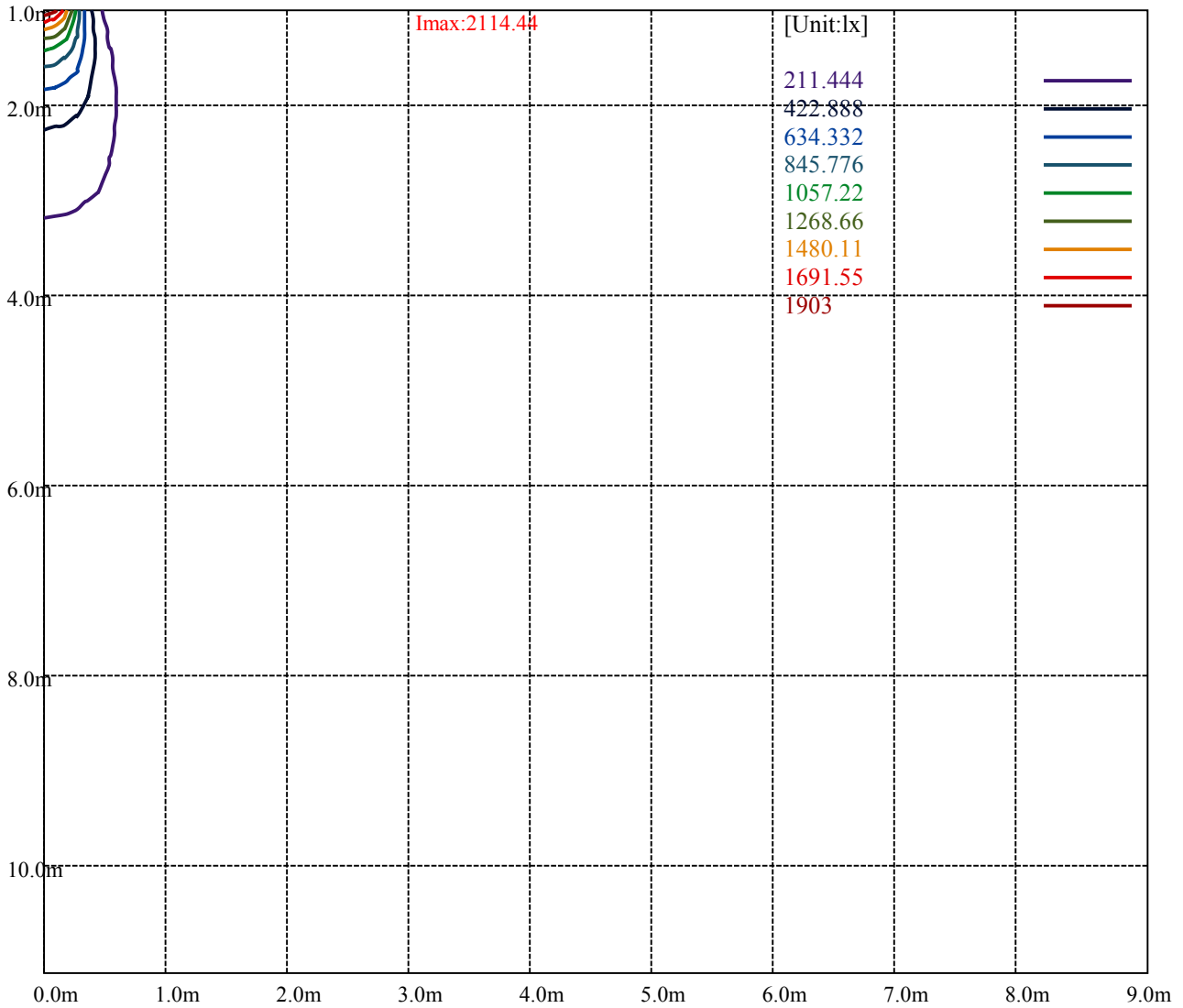
Road

I_{max}:2114.44

(10%I _{max})	211.444	—
(20%I _{max})	422.888	—
(30%I _{max})	634.332	—
(40%I _{max})	845.776	—
(50%I _{max})	1057.22	—
(60%I _{max})	1268.66	—
(70%I _{max})	1480.11	—
(80%I _{max})	1691.55	—
(90%I _{max})	1903	—



(10%Emax) 23.49378	—
(20%Emax) 46.98756	—
(30%Emax) 70.48133	—
(40%Emax) 93.97511	—
(50%Emax) 117.4689	—
(60%Emax) 140.9622	—
(70%Emax) 164.4567	—
(80%Emax) 187.95	—
(90%Emax) 211.4444	—



Luminance Table

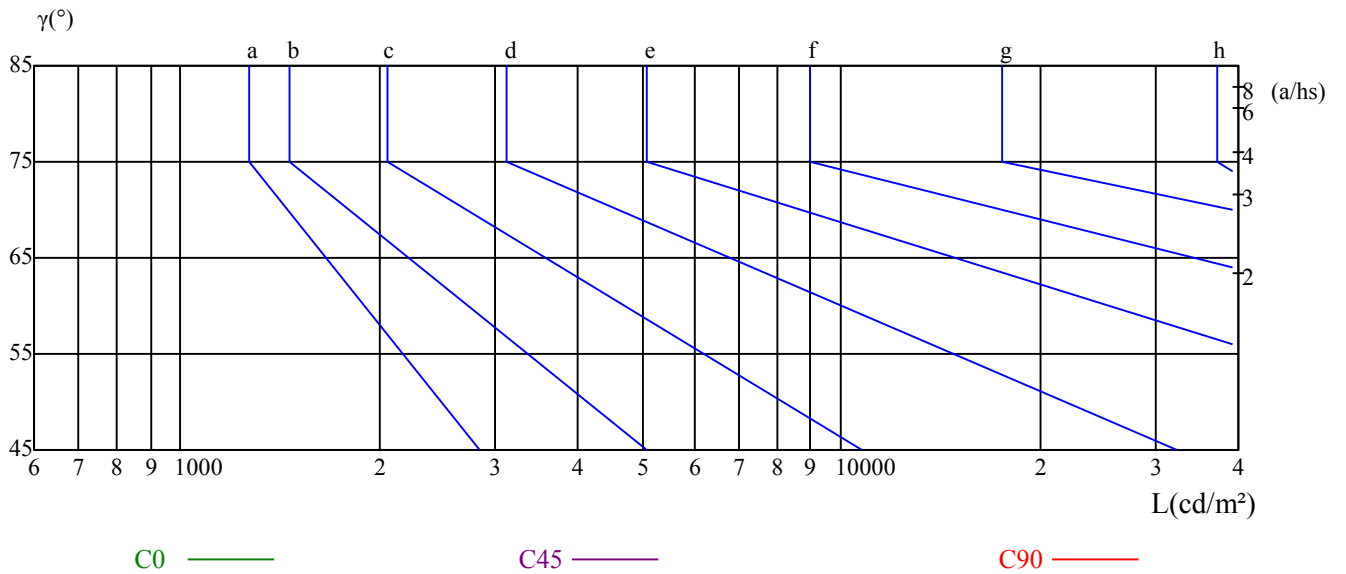
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

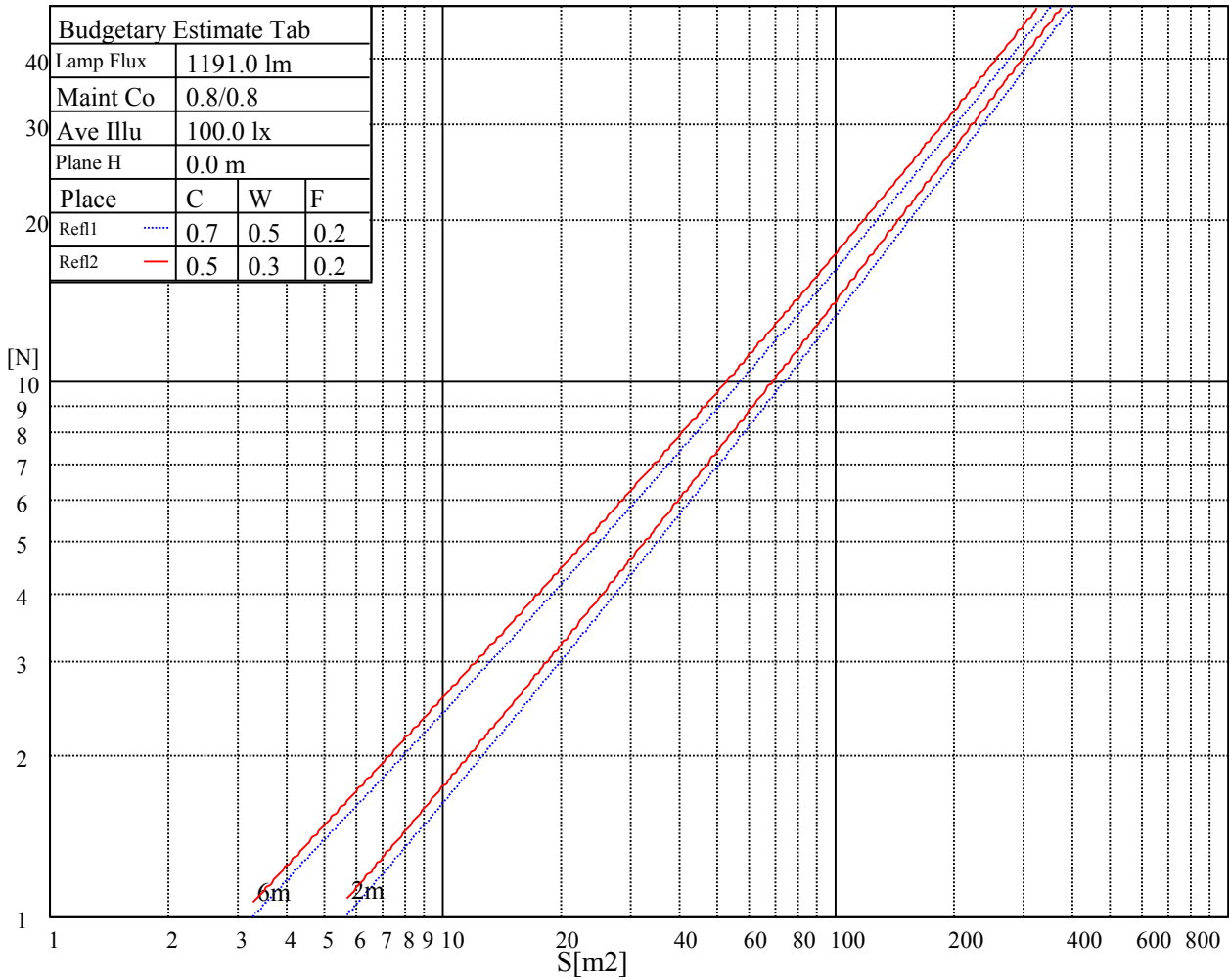
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

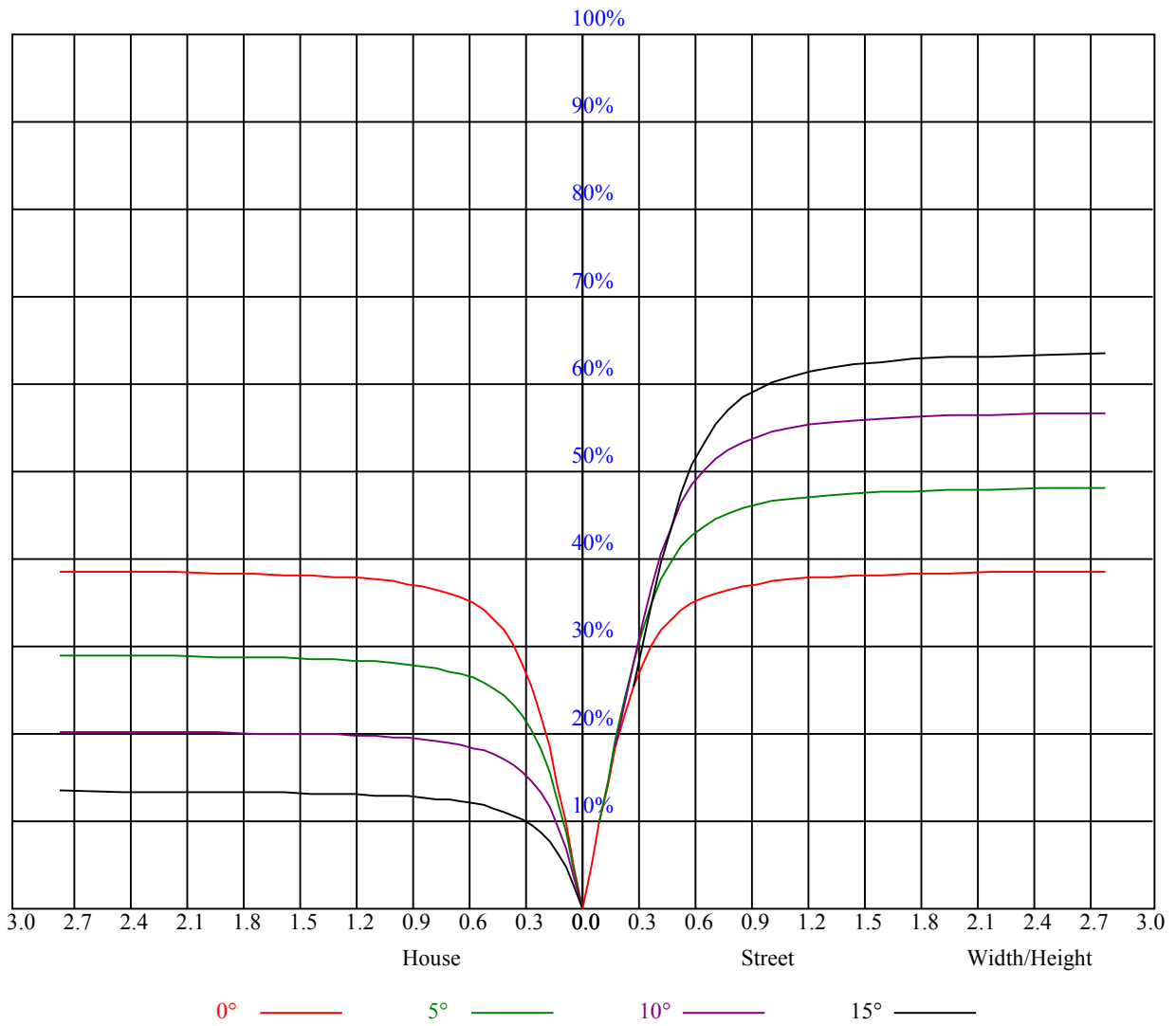
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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	0.93	0.93	0.93	0.91	0.91	0.91	0.87	0.87	0.87	0.83	0.83	0.83	0.80	0.80	0.80	0.78
1	0.86	0.84	0.82	0.85	0.83	0.81	0.81	0.80	0.78	0.78	0.77	0.76	0.76	0.75	0.74	0.72
2	0.81	0.78	0.76	0.80	0.77	0.75	0.77	0.75	0.73	0.75	0.73	0.71	0.73	0.71	0.70	0.69
3	0.77	0.73	0.70	0.76	0.72	0.70	0.74	0.71	0.69	0.72	0.70	0.68	0.70	0.68	0.67	0.65
4	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.67	0.65	0.69	0.66	0.64	0.68	0.65	0.64	0.62
5	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.64	0.62	0.66	0.64	0.61	0.65	0.63	0.61	0.60
6	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.64	0.61	0.59	0.63	0.60	0.58	0.57
7	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.61	0.58	0.56	0.55
8	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.60	0.57	0.54	0.59	0.56	0.54	0.53
9	0.59	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.58	0.55	0.53	0.57	0.54	0.52	0.51
10	0.57	0.54	0.51	0.57	0.53	0.51	0.56	0.53	0.51	0.56	0.53	0.51	0.55	0.53	0.51	0.50



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	2117.47	2014.51	1761.80	1303.74	770.24	389.80	280.79	132.63	90.02
45.0	2116.92	1994.14	1702.34	1206.29	682.15	338.60	194.57	119.69	80.55
90.0	2110.86	2007.91	1702.89	1092.26	637.06	315.14	178.66	113.64	75.65
135.0	2112.51	2077.28	1885.13	1383.02	839.61	411.27	237.95	132.91	93.10
180.0	2117.47	2086.64	1876.32	1370.35	823.81	408.52	209.76	131.14	90.46
225.0	2116.92	2090.49	1936.88	1482.67	903.20	461.98	240.38	140.56	100.26
270.0	2110.86	2086.09	1947.90	1531.67	954.68	510.92	281.89	147.06	103.45
315.0	2112.51	2026.63	1766.21	1067.98	747.23	367.61	213.95	130.48	90.35
360.0	2117.47	2014.51	1761.80	1303.74	770.24	389.80	280.79	132.63	90.02
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	55.72	36.78	23.67	15.64	10.96	8.92	7.38	6.06	4.73
45.0	52.19	33.09	21.36	14.42	10.30	8.59	7.16	5.78	4.57
90.0	48.78	31.71	20.32	13.65	10.02	8.42	6.99	5.78	4.62
135.0	57.20	37.05	24.00	15.69	10.63	8.97	7.49	6.17	4.90
180.0	56.60	36.67	23.51	15.42	10.52	8.81	7.38	6.06	4.90
225.0	62.60	39.70	25.82	16.96	11.12	9.14	7.65	6.33	5.12
270.0	66.07	41.57	26.54	17.89	11.62	9.41	7.87	6.55	5.12
315.0	53.51	36.01	23.18	15.31	10.68	8.81	7.32	6.11	4.79
360.0	55.72	36.78	23.67	15.64	10.96	8.92	7.38	6.06	4.73
C/γ(°)	90.0								
0.0	4.02								
45.0	4.02								
90.0	4.07								
135.0	4.02								
180.0	4.02								
225.0	4.13								
270.0	4.13								
315.0	4.02								
360.0	4.02								