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Nata

LumCAT: 4-2222-A
Luminaire: BJB 47.319.2011
Report No: GC20170406121
Test No: NT-0010
LampCAT: LUMILED SLUXEON CoB 1205
Lamp flux(lm): 2428.0
Number of Lamps: 1
Length(mm): 100
Phm Type: C

Voltage(V): 217.5000
Current(A): 0.1030
Power (W): 20.4000
PF: 0.9060
Ballast type: DC
Width(mm): 100
Height(mm): 0

Photometric Results

Lumens(lm): 2229.22
Efficiency(%): 91.81%
Lumens(lm)/Power(W): 109.28
Central intensity(cd): 2310.579
Maximum intensity(cd): 2310.579
Angle of maximum intensity: $C=0.0 \gamma=0.0$
Beam Angle(50%Imax): [C0/180]Total=63.4
 [C90/270]Total=63.4
Field angle(10%Imax): [C0/180]Total=78.9
 [C90/270]Total=78.9
Maximum s/h(1/2): C0_180=1.03 C90_270=1.03
Maximum s/h(1/4): C0_180=0.92 C90_270=0.92
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.81%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.690%

Equipment: gms1980
Temperature(°C): 25.0

Date: 2017/4/6
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

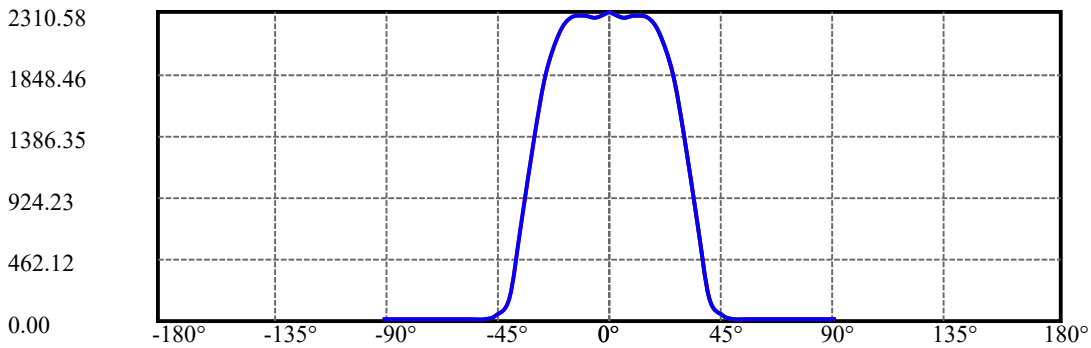
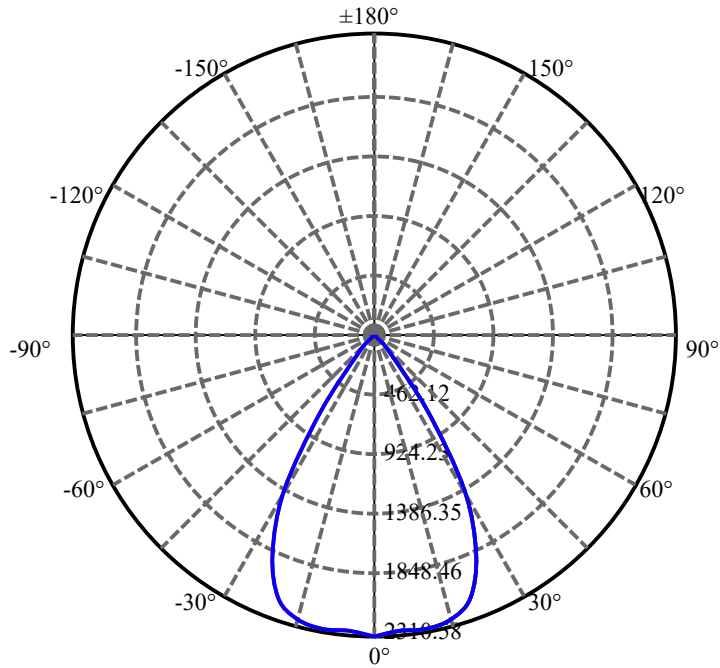
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2310.579	0.000	0	.000%	.000%
5.0	2270.457	54.765	54.765	2.256%	2.457%
10.0	2279.679	162.773	217.538	6.704%	9.758%
15.0	2261.648	269.388	486.926	11.095%	21.843%
20.0	2148.301	363.442	850.368	14.969%	38.146%
25.0	1857.396	420.124	1270.492	17.303%	56.993%
30.0	1381.083	409.832	1680.324	16.879%	75.377%
35.0	719.787	309.368	1989.692	12.742%	89.255%
40.0	172.877	148.934	2138.626	6.134%	95.936%
45.0	39.090	39.247	2177.873	1.616%	97.696%
50.0	16.551	11.243	2189.116	.463%	98.201%
55.0	11.108	6.014	2195.13	.248%	98.471%
60.0	10.041	4.888	2200.019	.201%	98.690%
65.0	9.573	4.768	2204.787	.196%	98.904%
70.0	9.298	4.778	2209.565	.197%	99.118%
75.0	9.153	4.823	2214.388	.199%	99.334%
80.0	9.126	4.891	2219.279	.201%	99.554%
85.0	9.126	4.959	2224.238	.204%	99.776%
90.0	9.084	4.986	2229.224	.205%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1680.32	69.21%	75.38%
0-40	2138.63	88.08%	95.94%
0-60	2200.02	90.61%	98.69%
0-90	2224.24	91.61%	99.78%
0-120	2224.24	91.61%	99.78%
0-180	2229.22	91.81%	100.00%
60-90	29.11	1.20%	1.31%
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%
0-31.67	1783.38	73.45%	80.00%

ZONAL LUMEN SUMMARY

0-10	217.54
10-20	632.83
20-30	829.96
30-40	458.30
40-50	50.49
50-60	10.90
60-70	9.55
70-80	9.71
80-90	4.96
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: ———

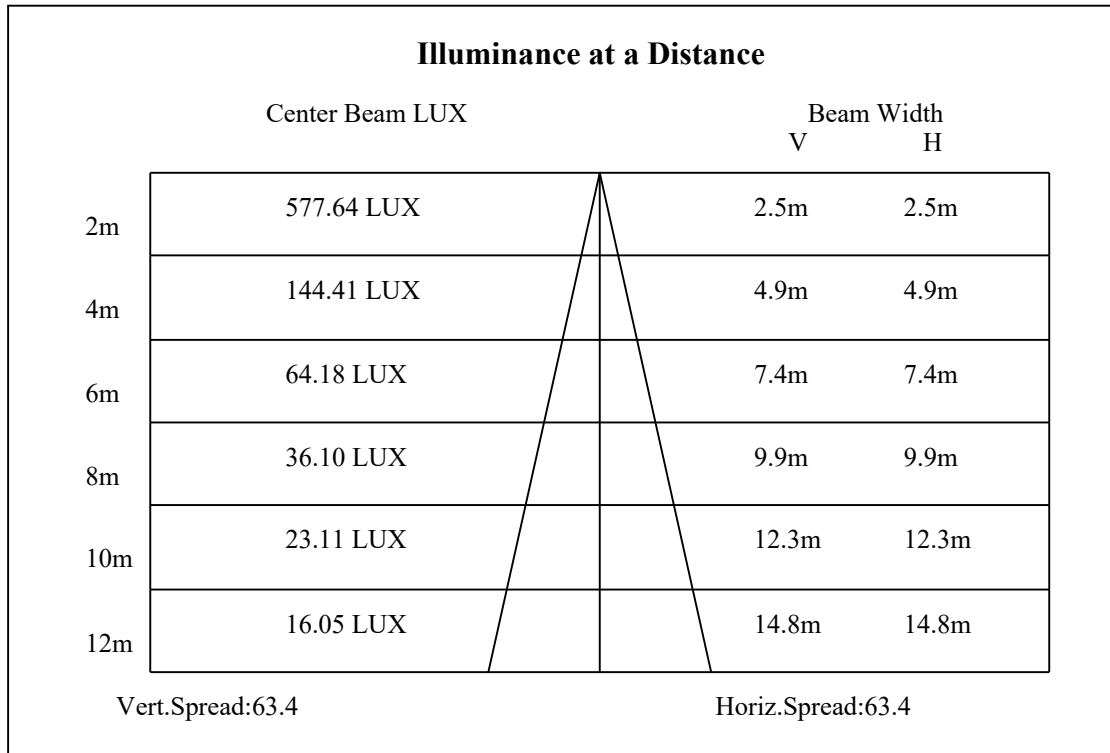
C90/C270: ———

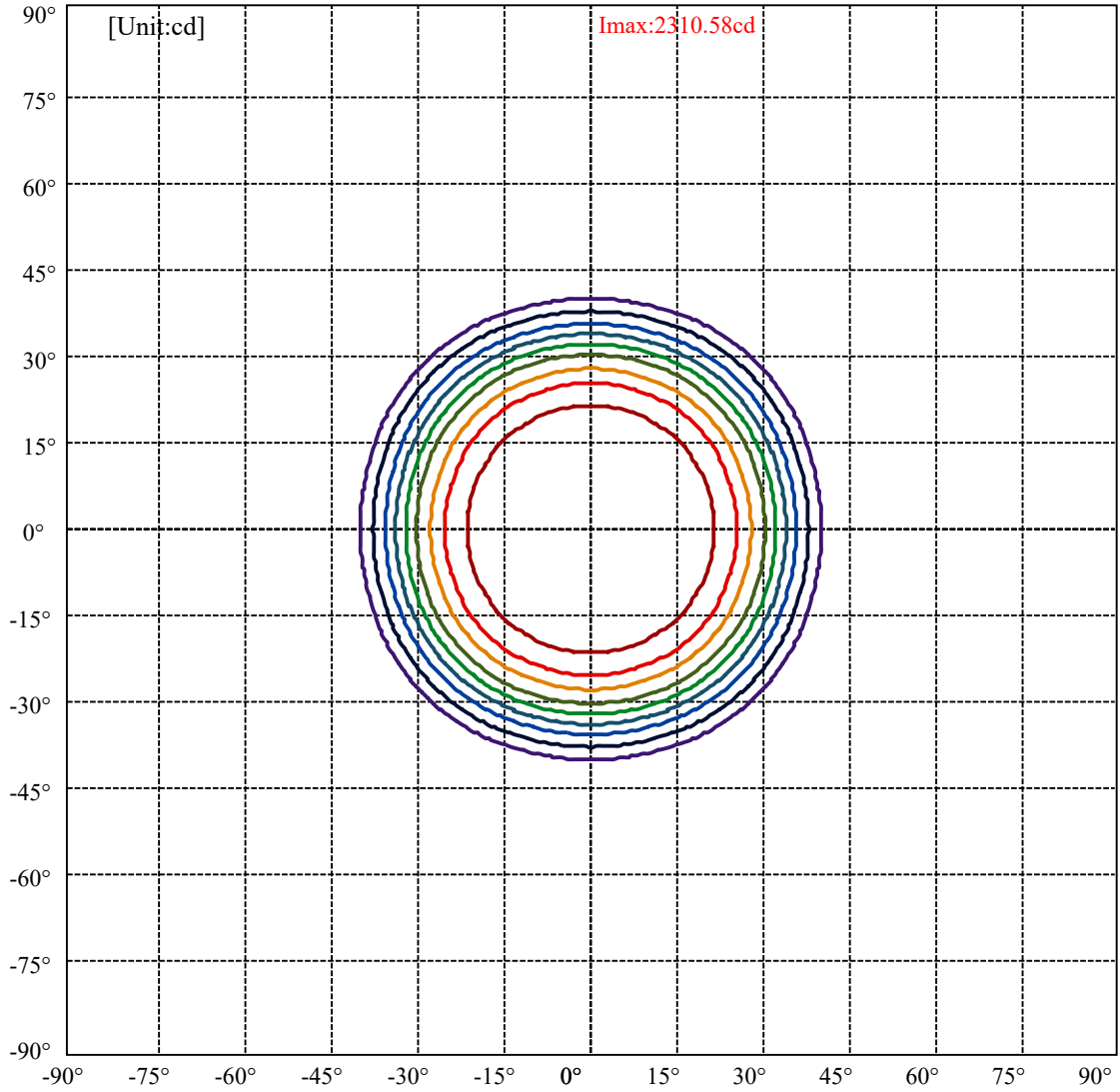
Field angle(10%Imax):C0/180Left:39.5 Right:39.5

:C90/270Left:39.5 Right:39.5

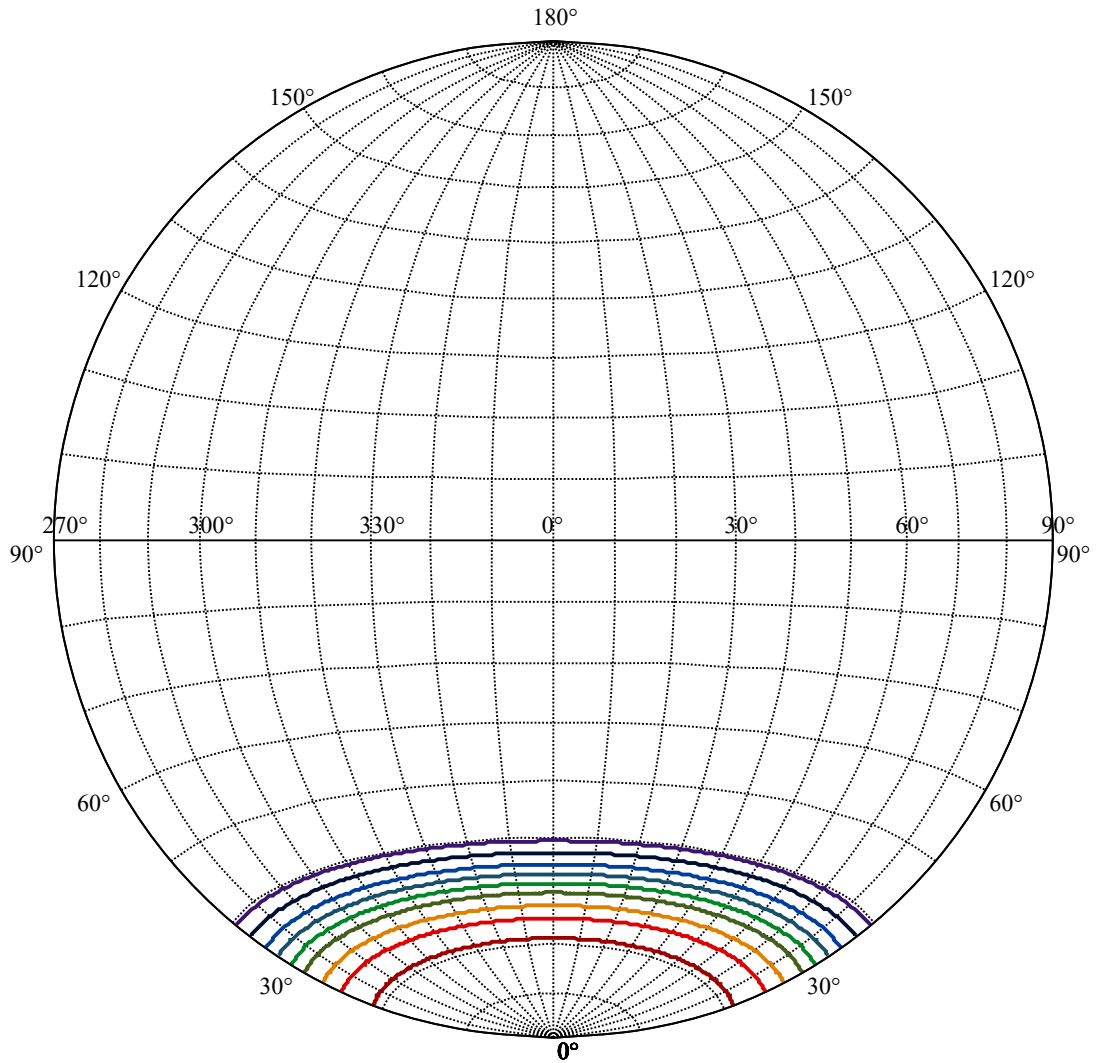
Beam Angle(50%Imax):C0/180Left:31.7 Right:31.7

:C90/270Left:31.7 Right:31.7





(10%Imax) 231.058	—
(20%Imax) 462.116	—
(30%Imax) 693.174	—
(40%Imax) 924.232	—
(50%Imax) 1155.29	—
(60%Imax) 1386.35	—
(70%Imax) 1617.41	—
(80%Imax) 1848.46	—
(90%Imax) 2079.52	—



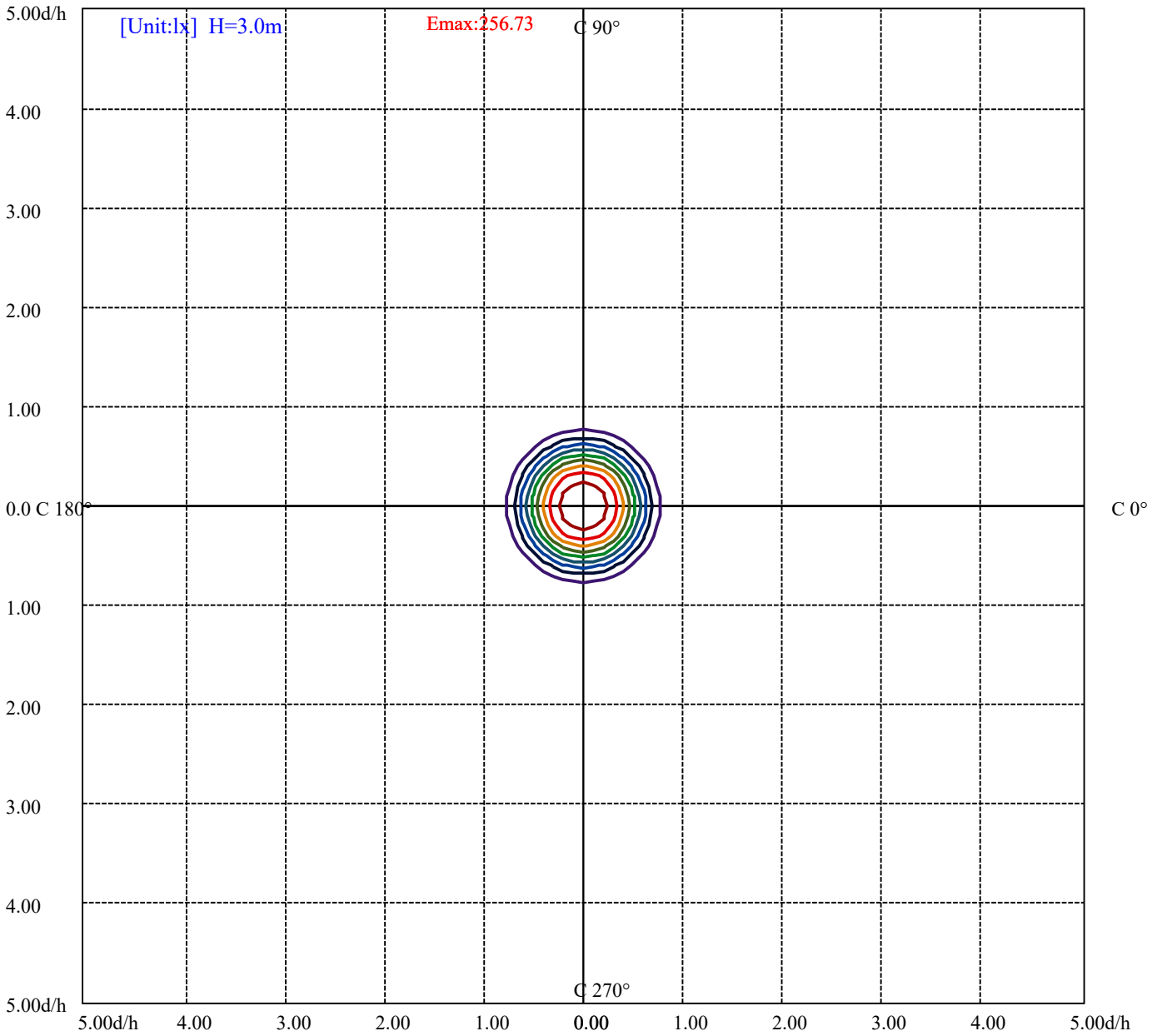
House

[Unit:cd]

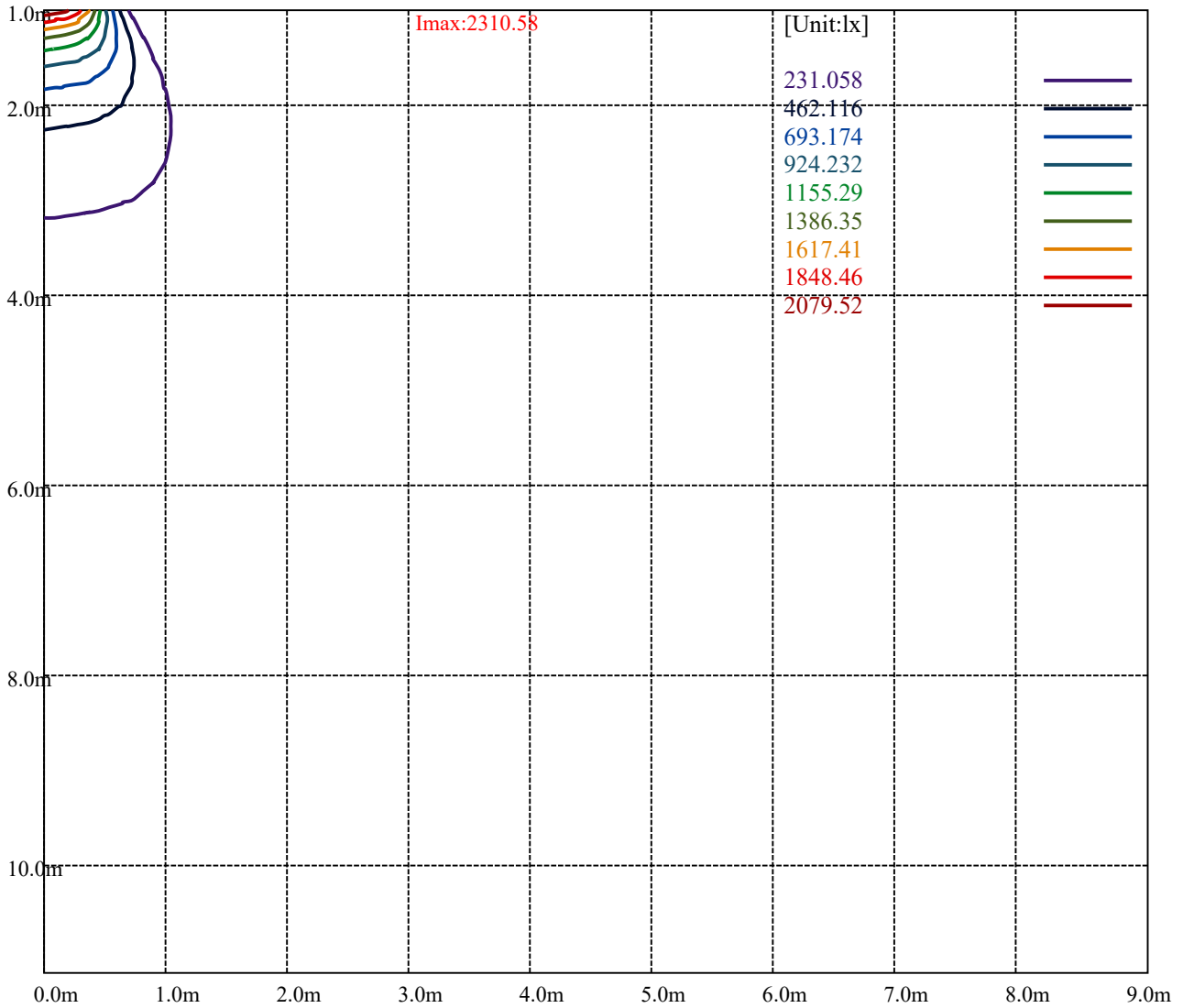
Road

Imax:2310.58

(10%Imax)	231.058	—
(20%Imax)	462.116	—
(30%Imax)	693.174	—
(40%Imax)	924.232	—
(50%Imax)	1155.29	—
(60%Imax)	1386.35	—
(70%Imax)	1617.41	—
(80%Imax)	1848.46	—
(90%Imax)	2079.52	—



- (10%Emax) 25.67311
- (20%Emax) 51.34622
- (30%Emax) 77.01922
- (40%Emax) 102.6923
- (50%Emax) 128.3656
- (60%Emax) 154.0389
- (70%Emax) 179.7111
- (80%Emax) 205.3844
- (90%Emax) 231.0578



Luminance Table

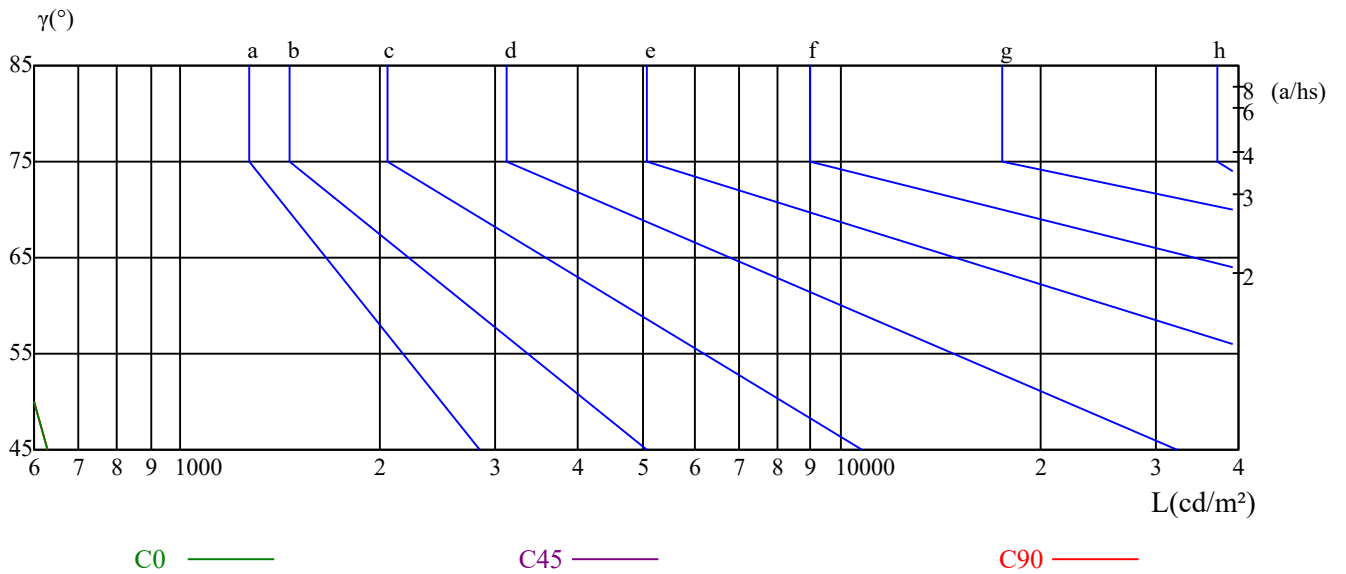
γ	45	50	55	60	65	70	75	80	85
C0	628	250	160	138	128	121	117	116	116
C45	459	182	116	100	92	87	84	83	82
C90	628	250	160	138	128	121	117	116	116

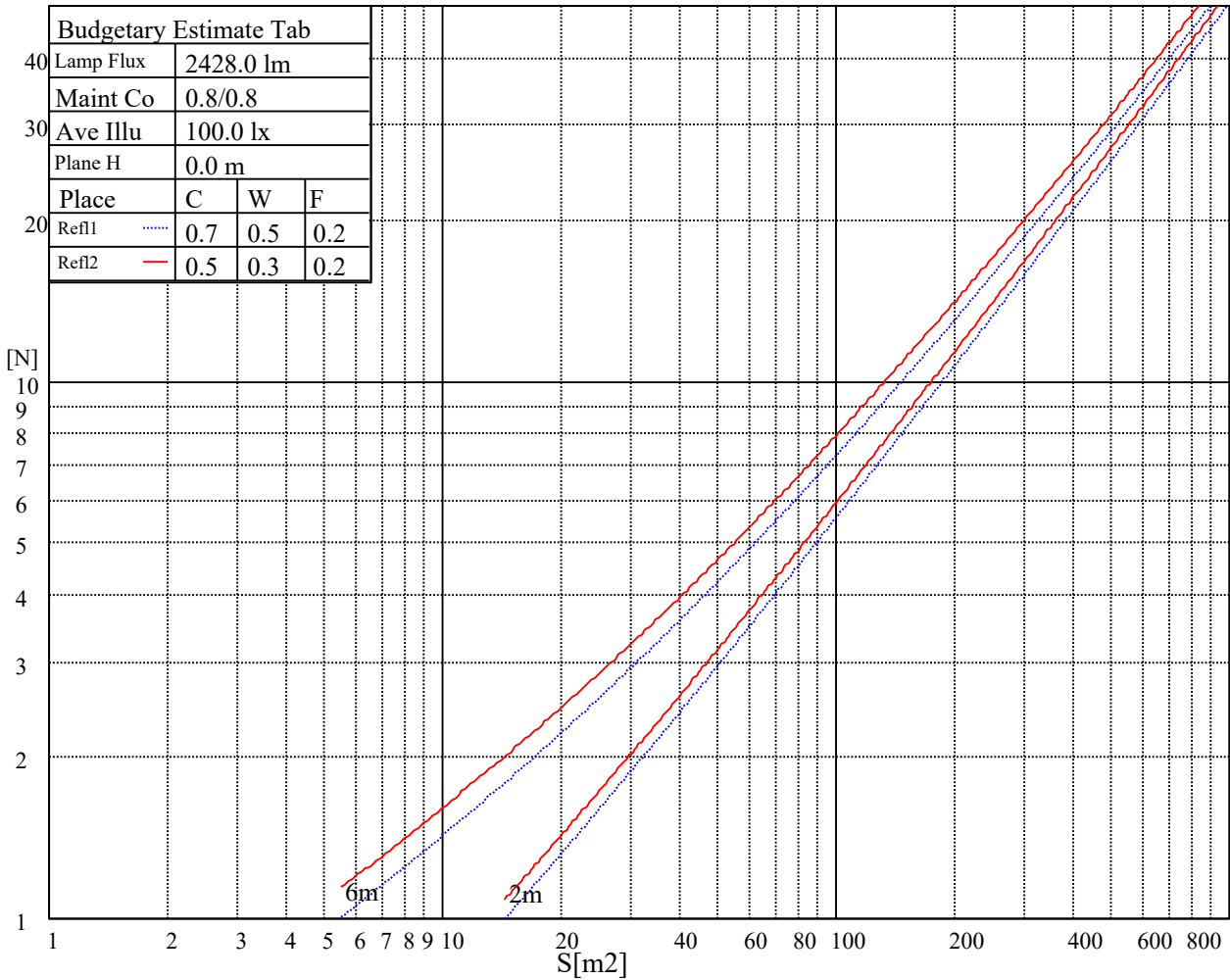
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2265	2265	2265	3536	3536	3536	10470	10470	10470

Glare Table

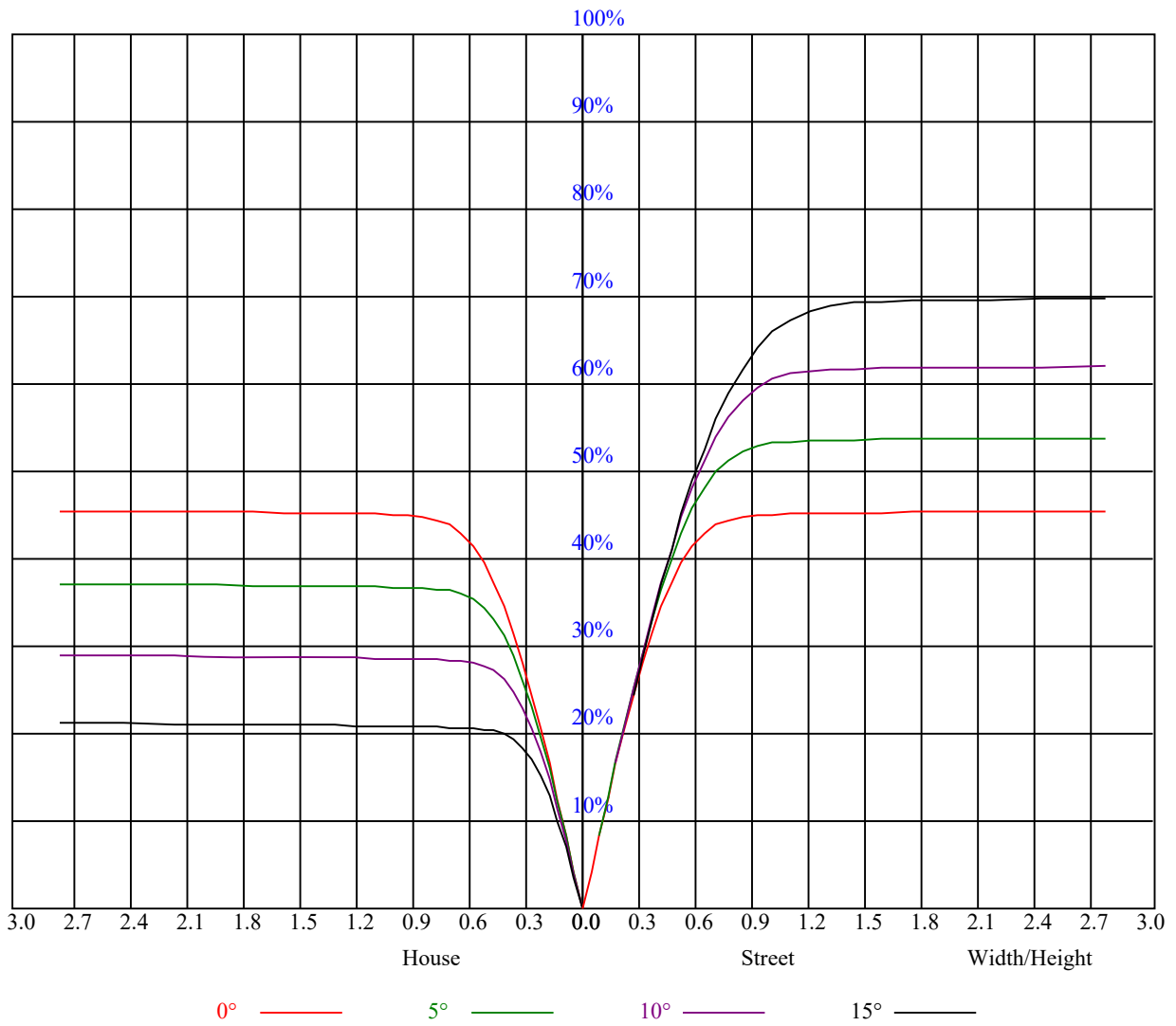
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	0.99	0.97	1.00	0.97	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
2	0.95	0.91	0.88	0.93	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.81	0.80
3	0.88	0.84	0.80	0.87	0.83	0.80	0.85	0.81	0.78	0.82	0.80	0.77	0.80	0.78	0.76	0.74
4	0.83	0.78	0.74	0.82	0.77	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.73	0.71	0.70
5	0.78	0.72	0.68	0.77	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.66	0.65
6	0.73	0.68	0.64	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.68	0.65	0.62	0.61
7	0.69	0.63	0.59	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.57
8	0.65	0.59	0.56	0.64	0.59	0.56	0.63	0.59	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.54
9	0.61	0.56	0.52	0.61	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.50
10	0.58	0.53	0.49	0.58	0.53	0.49	0.57	0.52	0.49	0.56	0.52	0.49	0.55	0.52	0.49	0.48



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	2298.60	2264.47	2279.89	2211.62	2102.05	1779.42	1314.20	591.31	123.93
45.0	2326.13	2244.65	2272.18	2233.09	2137.29	1893.39	1408.34	772.99	306.66
90.0	2312.37	2234.74	2266.12	2224.83	2122.97	1838.88	1351.08	712.98	163.35
135.0	2305.21	2267.22	2255.11	2266.12	2193.45	1969.37	1531.67	1000.37	309.42
180.0	2298.60	2280.44	2266.12	2296.95	2190.69	1929.18	1489.28	855.03	149.64
225.0	2326.13	2298.60	2300.81	2301.36	2152.15	1811.36	1409.99	645.81	96.40
270.0	2312.37	2294.75	2287.04	2297.50	2173.08	1890.09	1445.78	711.88	148.49
315.0	2305.21	2278.78	2310.17	2261.72	2114.72	1747.49	1098.32	467.92	85.12
360.0	2298.60	2264.47	2279.89	2211.62	2102.05	1779.42	1314.20	591.31	123.93

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	40.85	16.24	10.85	10.02	9.52	9.30	9.19	9.14	9.14
45.0	54.45	19.77	11.34	10.13	9.58	9.30	9.14	9.14	9.14
90.0	52.58	20.32	11.51	10.13	9.58	9.30	9.14	9.14	9.14
135.0	59.24	23.73	12.55	10.35	9.74	9.41	9.19	9.14	9.14
180.0	33.20	14.37	10.85	10.02	9.58	9.30	9.14	9.14	9.08
225.0	24.22	12.77	10.57	9.91	9.52	9.25	9.08	9.08	9.08
270.0	25.16	12.94	10.74	9.97	9.58	9.30	9.19	9.14	9.14
315.0	23.01	12.28	10.46	9.80	9.47	9.19	9.14	9.08	9.14
360.0	40.85	16.24	10.85	10.02	9.52	9.30	9.19	9.14	9.14

C/γ(°)	90.0
0.0	9.08
45.0	9.14
90.0	9.08
135.0	9.08
180.0	9.08
225.0	9.03
270.0	9.08
315.0	9.08
360.0	9.08