
Nata

LumCAT: 3-1941-M
Luminaire: BJB 47.319.2344
Report No: GC2017070302
Test No: NT-0010
LampCAT: PHILIPS Certaflux SLM 1208 L14
Lamp flux(lm): 2321.0
Number of Lamps: 1
Length(mm): 78
Phm Type: C

Voltage(V): 34.3300
Current(A): 0.5000
Power (W): 17.1650
PF: 0.0000
Ballast type: DC
Width(mm): 78
Height(mm): 51

Photometric Results

Lumens(lm): 2093.75
Efficiency(%): 90.21%
Lumens(lm)/Power(W): 121.98
Central intensity(cd): 2590.118
Maximum intensity(cd): 2590.118
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=58.0
 [C90/270]Total=58.0
Field angle(10%Imax): [C0/180]Total=75.4
 [C90/270]Total=75.4
Maximum s/h(1/2): C0_180=0.94 C90_270=0.94
Maximum s/h(1/4): C0_180=0.86 C90_270=0.86
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.21%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.652%

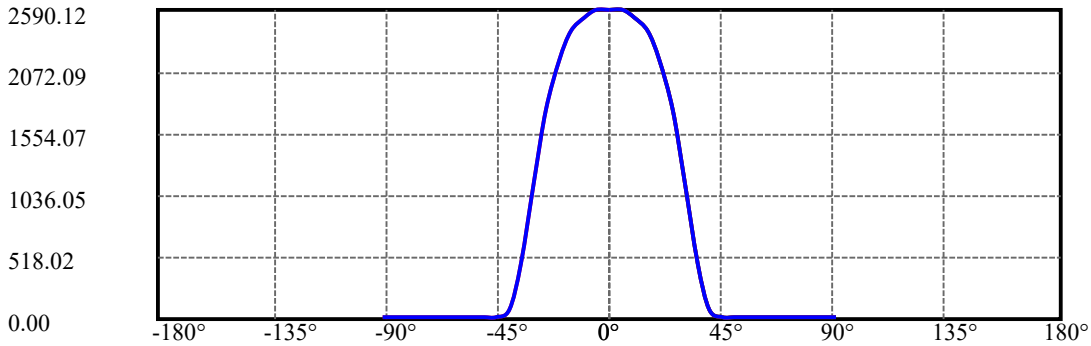
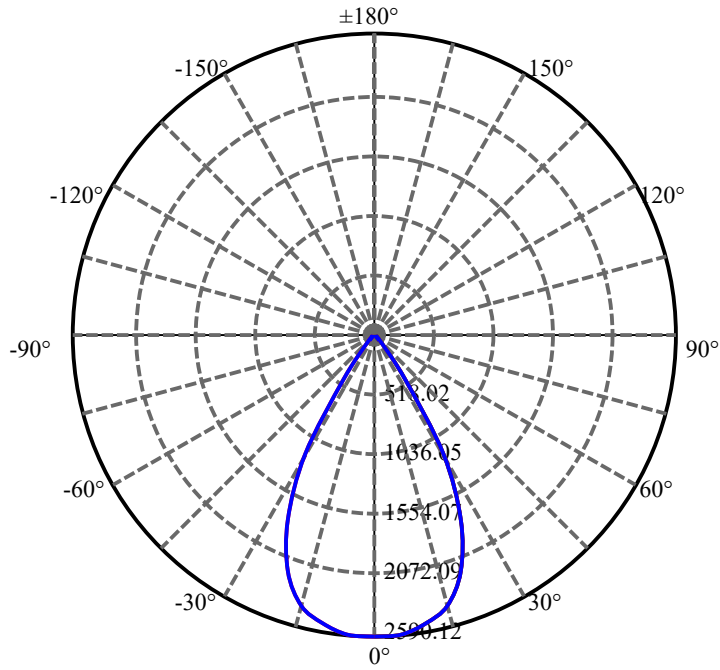
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2590.118	0.000	0	.000%	.000%
5.0	2583.904	61.854	61.854	2.665%	2.954%
10.0	2520.646	182.606	244.46	7.868%	11.676%
15.0	2416.300	292.856	537.316	12.618%	25.663%
20.0	2167.120	377.738	915.054	16.275%	43.704%
25.0	1755.344	411.394	1326.448	17.725%	63.353%
30.0	1177.857	371.199	1697.647	15.993%	81.082%
35.0	472.890	243.084	1940.731	10.473%	92.691%
40.0	73.525	91.165	2031.897	3.928%	97.046%
45.0	20.192	17.353	2049.249	.748%	97.874%
50.0	12.341	6.574	2055.823	.283%	98.188%
55.0	10.592	4.986	2060.809	.215%	98.427%
60.0	9.860	4.727	2065.537	.204%	98.652%
65.0	9.331	4.665	2070.202	.201%	98.875%
70.0	8.992	4.640	2074.842	.200%	99.097%
75.0	8.798	4.650	2079.492	.200%	99.319%
80.0	8.774	4.702	2084.193	.203%	99.543%
85.0	8.788	4.772	2088.966	.206%	99.771%
90.0	8.700	4.788	2093.754	.206%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1697.65	73.14%	81.08%
0-40	2031.90	87.54%	97.05%
0-60	2065.54	88.99%	98.65%
0-90	2088.97	90.00%	99.77%
0-120	2088.97	90.00%	99.77%
0-180	2093.75	90.21%	100.00%
60-90	28.16	1.21%	1.34%
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%
0-29.69	1675.00	72.17%	80.00%

ZONAL LUMEN SUMMARY

0-10	244.46
10-20	670.59
20-30	782.59
30-40	334.25
40-50	23.93
50-60	9.71
60-70	9.30
70-80	9.35
80-90	4.77
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: ———

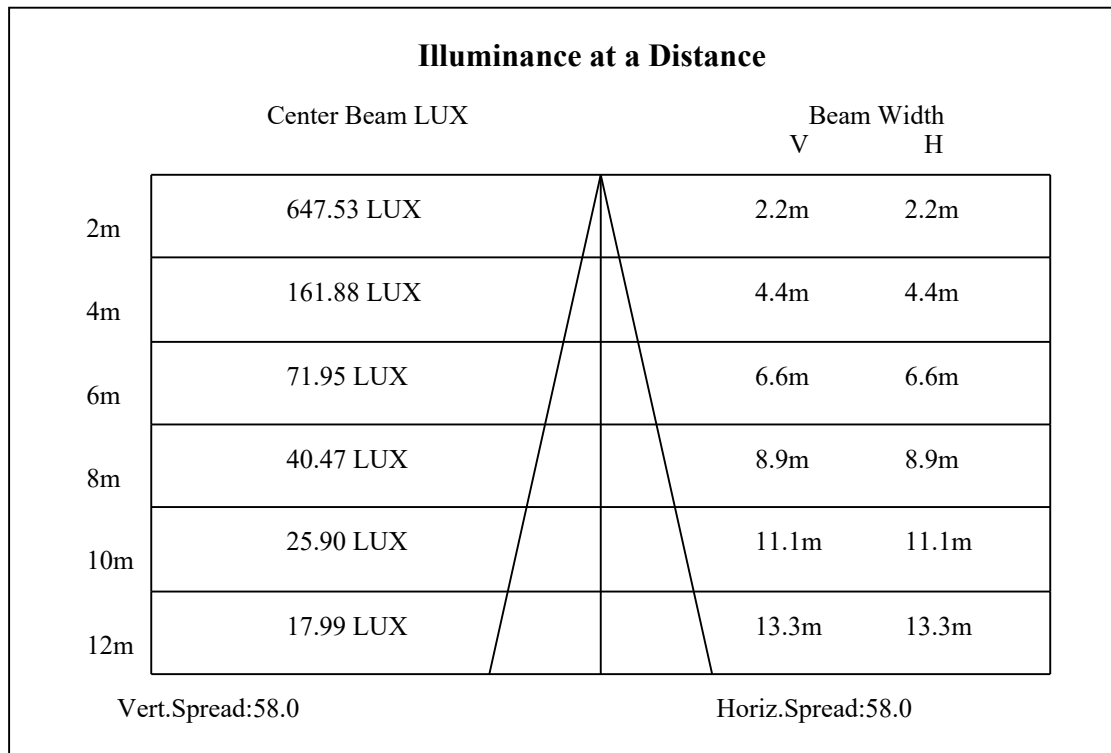
C90/C270: ———

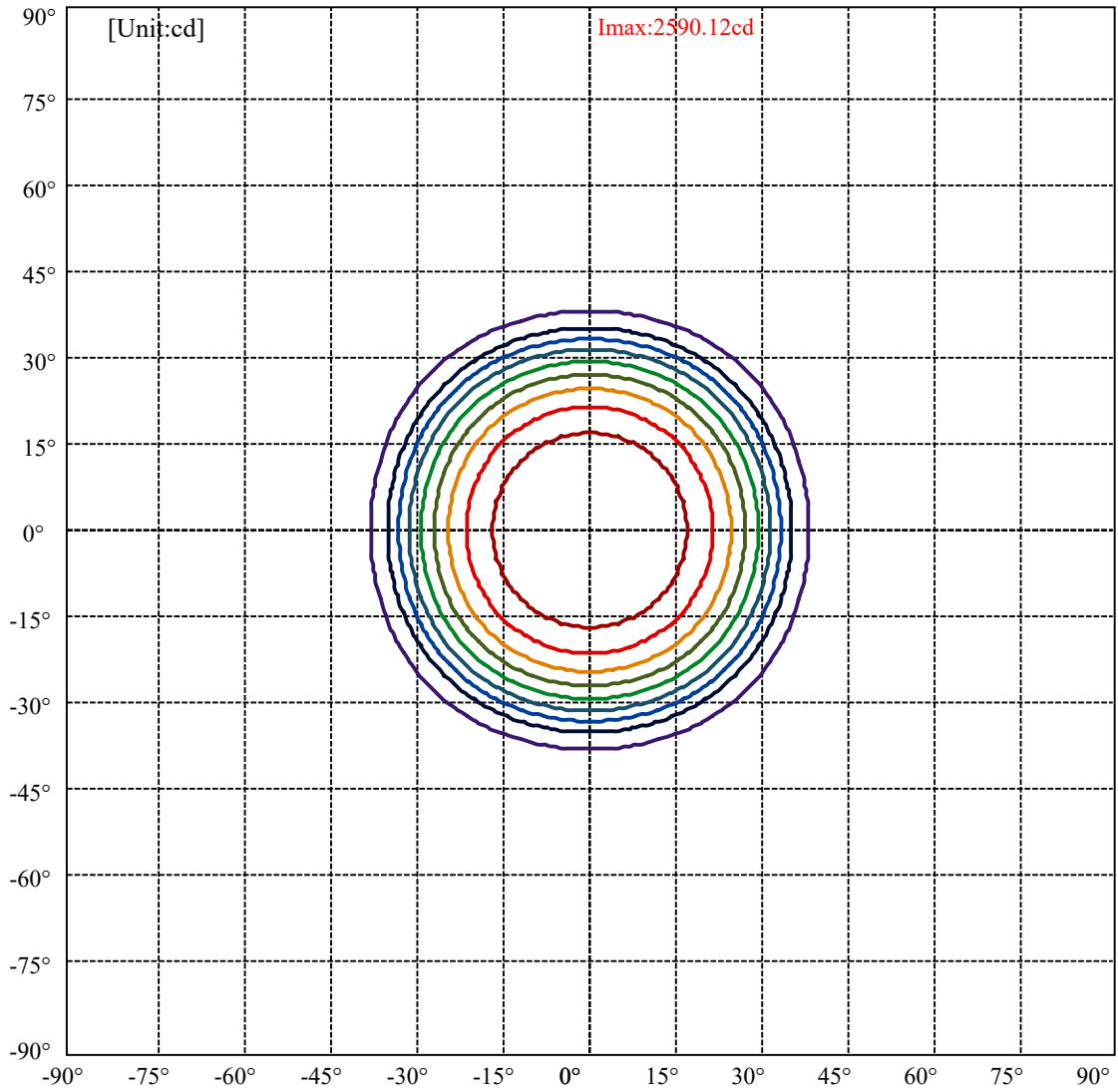
Field angle(10%Imax):C0/180Left:37.7 Right:37.7

:C90/270Left:37.7 Right:37.7

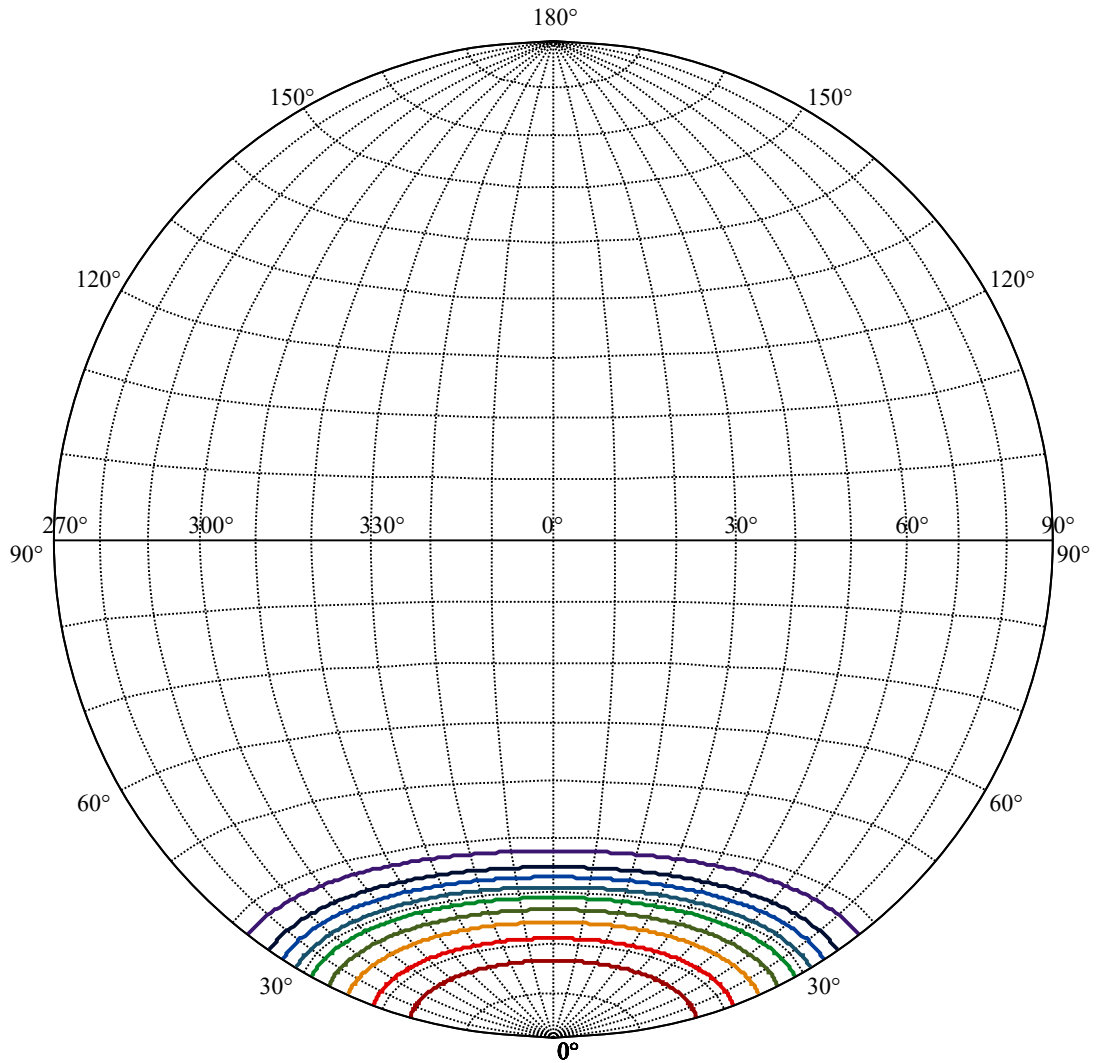
Beam Angle(50%Imax):C0/180Left:29.0 Right:29.0

:C90/270Left:29.0 Right:29.0





(10%Imax) 259.012	—
(20%Imax) 518.024	—
(30%Imax) 777.035	—
(40%Imax) 1036.05	—
(50%Imax) 1295.06	—
(60%Imax) 1554.07	—
(70%Imax) 1813.08	—
(80%Imax) 2072.09	—
(90%Imax) 2331.11	—












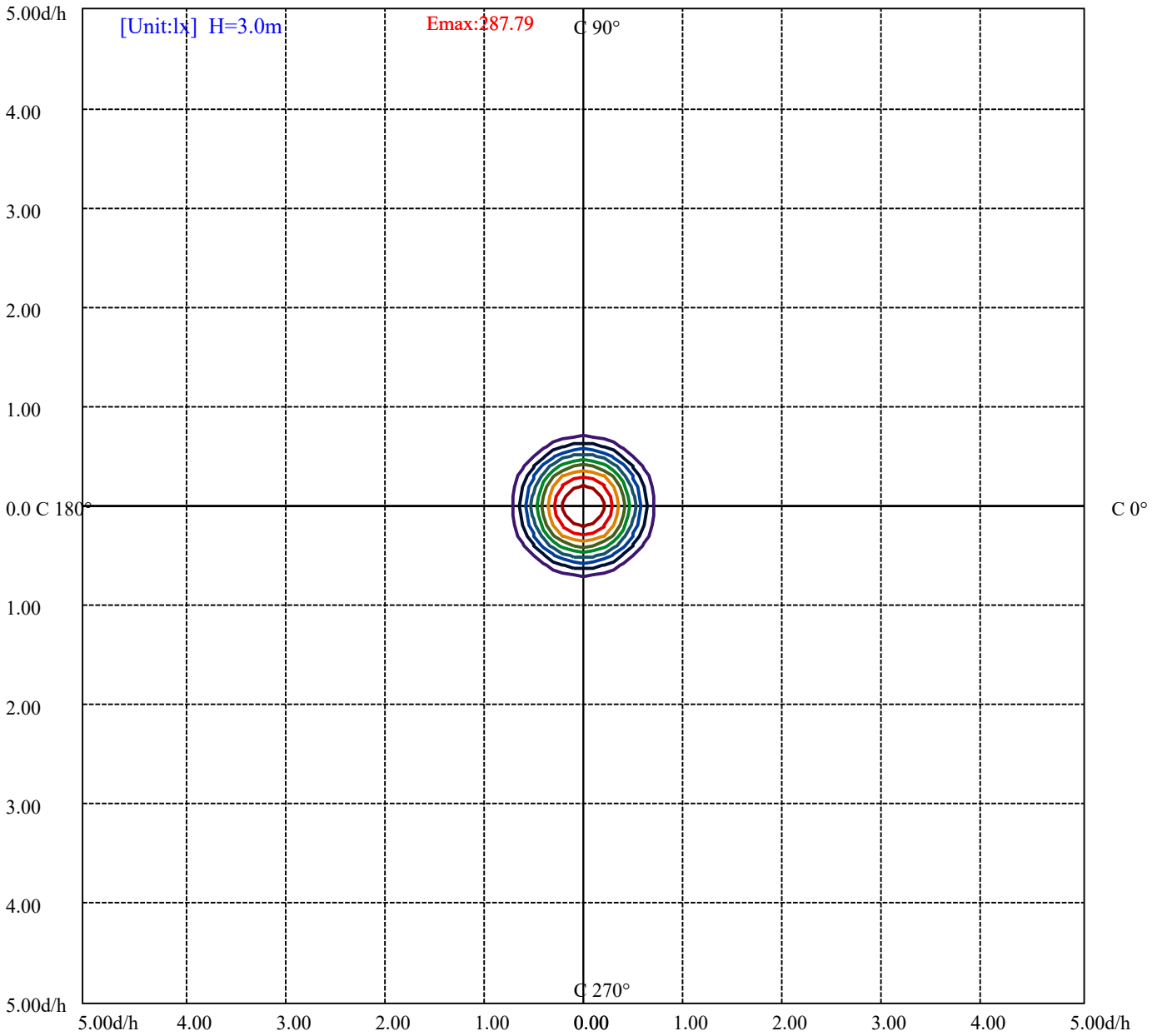
House

[Unit:cd]

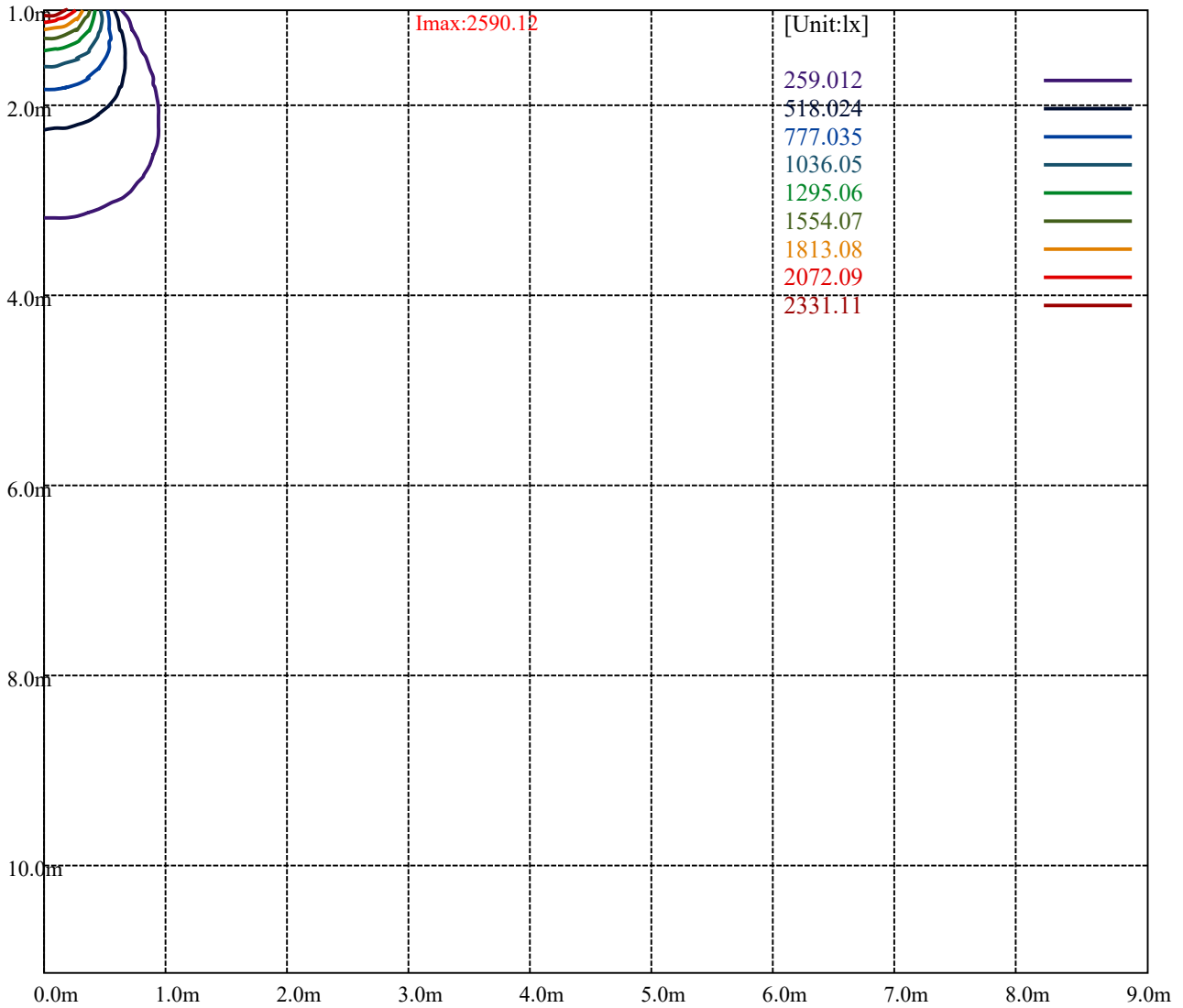
Road

Imax:2590.12

(10%Imax)	259.012	
(20%Imax)	518.024	
(30%Imax)	777.035	
(40%Imax)	1036.05	
(50%Imax)	1295.06	
(60%Imax)	1554.07	
(70%Imax)	1813.08	
(80%Imax)	2072.09	
(90%Imax)	2331.11	



(10%E _{max}) 28.77911	—
(20%E _{max}) 57.55822	—
(30%E _{max}) 86.33722	—
(40%E _{max}) 115.1167	—
(50%E _{max}) 143.8956	—
(60%E _{max}) 172.6744	—
(70%E _{max}) 201.4533	—
(80%E _{max}) 230.2322	—
(90%E _{max}) 259.0122	—



Luminance Table

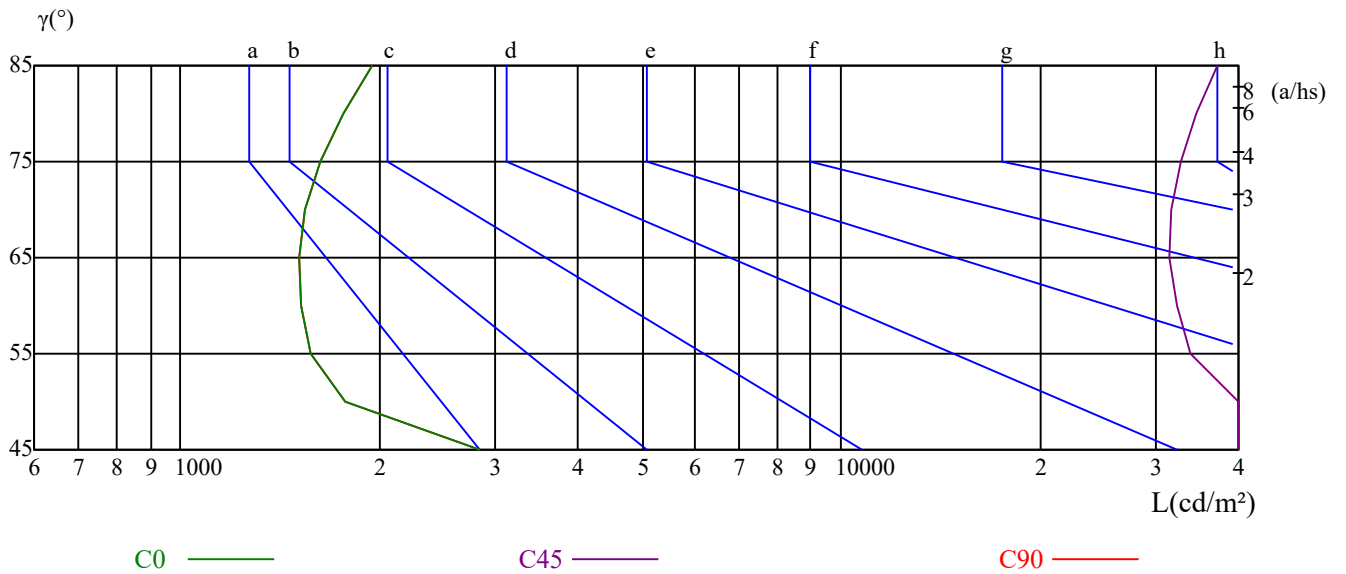
γ	45	50	55	60	65	70	75	80	85
C0	2838	1774	1570	1520	1511	1545	1624	1764	1956
C45	83093	40453	33940	32242	31491	31609	32627	34504	37060
C90	2838	1774	1570	1520	1511	1545	1624	1764	1956

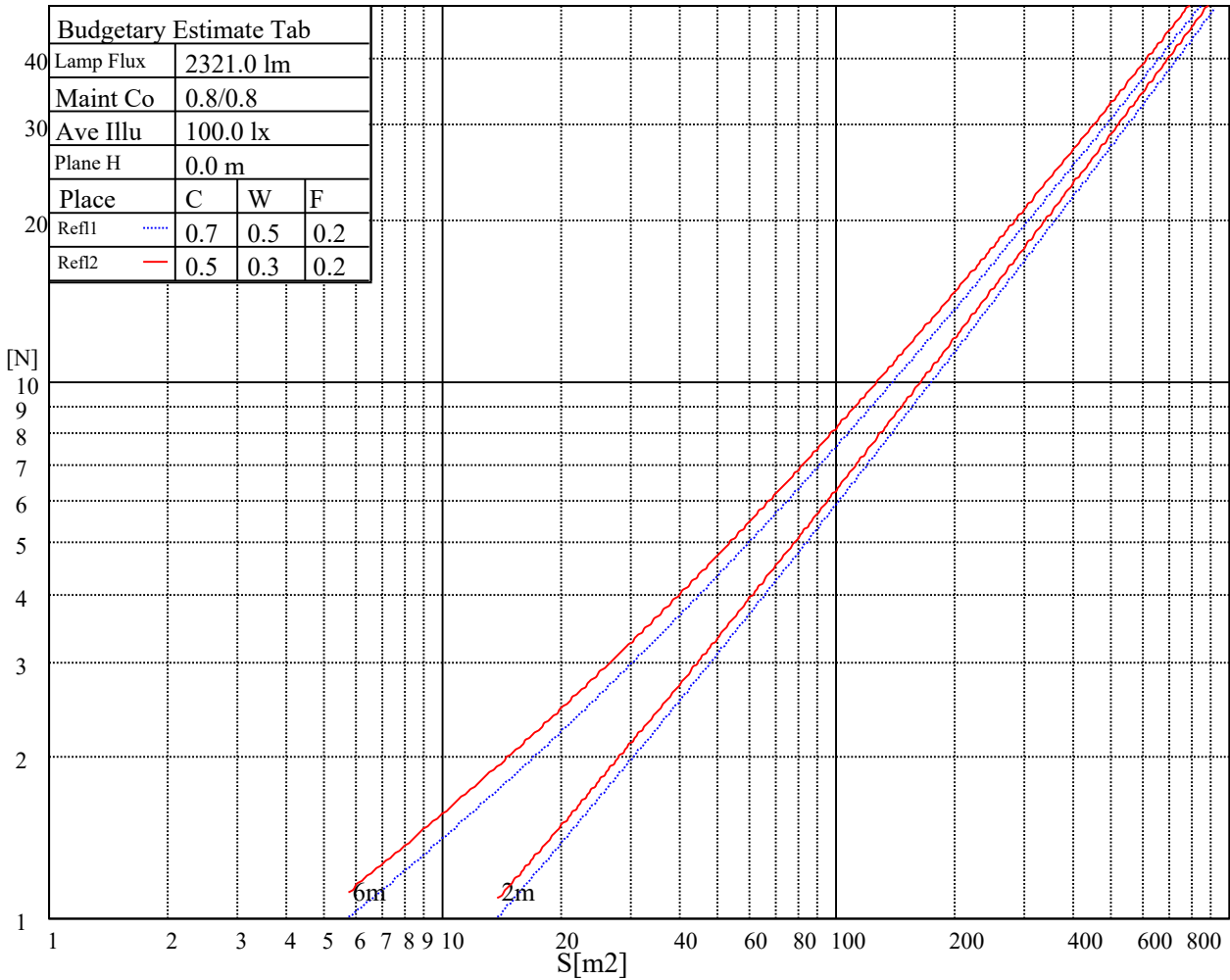
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3629	3629	93936	5587	5587	145221	16574	16574	428757

Glare Table

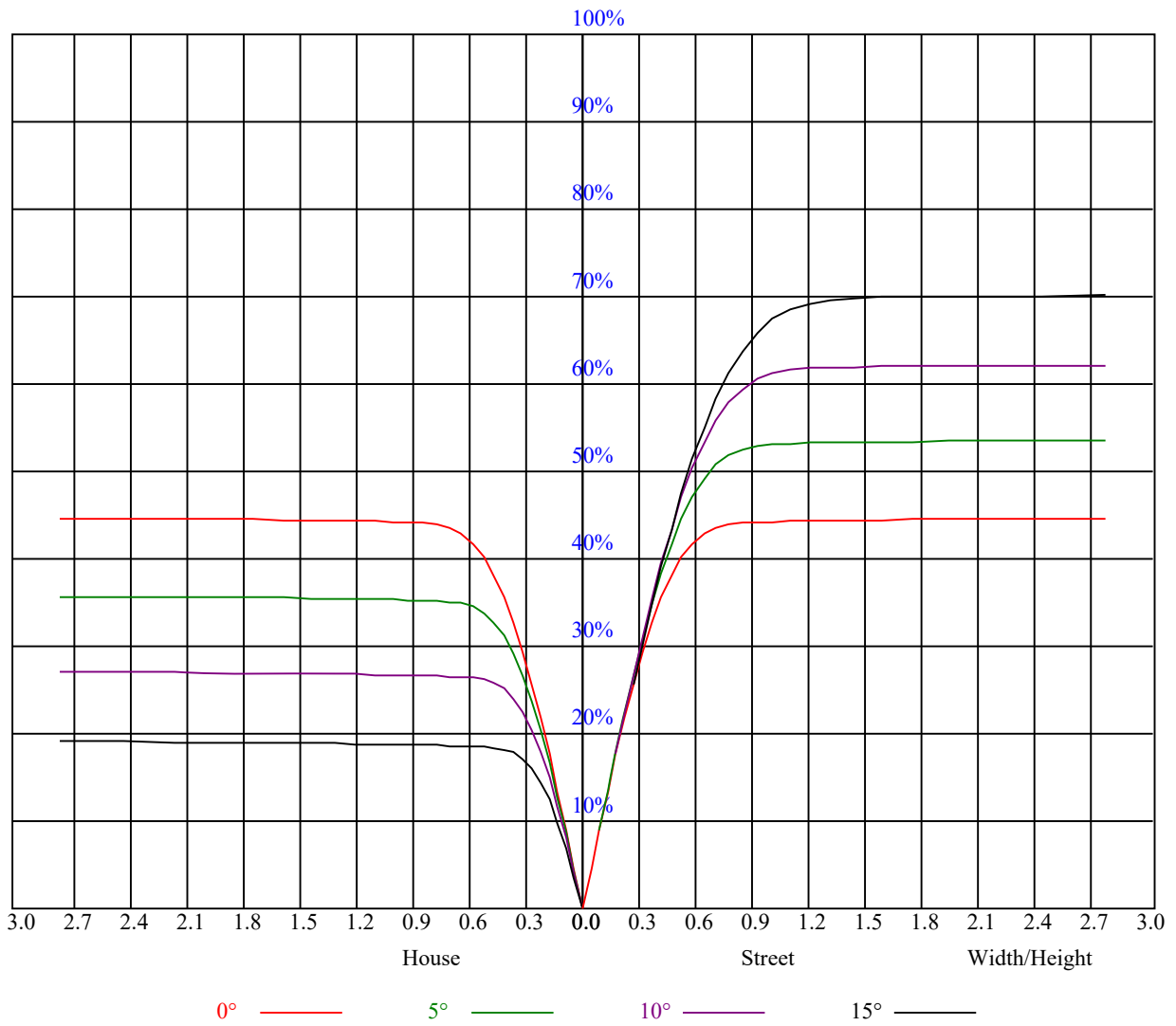
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.07	1.07	1.07	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.00	0.98	0.96	0.98	0.96	0.94	0.94	0.93	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.90	0.87	0.92	0.89	0.86	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.81	0.79
3	0.88	0.83	0.80	0.86	0.83	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.74
4	0.82	0.78	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.73	0.71	0.70
5	0.78	0.73	0.69	0.77	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.72	0.69	0.67	0.66
6	0.73	0.68	0.65	0.73	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
7	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.58
8	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.63	0.59	0.56	0.55
9	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.60	0.56	0.53	0.52
10	0.59	0.54	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.57	0.54	0.51	0.57	0.53	0.51	0.49



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	2582.79	2588.36	2532.15	2442.55	2172.08	1749.69	1194.28	495.30	72.68
30.0	2588.91	2601.71	2548.29	2445.89	2178.20	1761.37	1207.08	474.15	75.96
60.0	2601.16	2592.81	2528.81	2390.24	2119.21	1664.54	1077.03	348.21	60.22
90.0	2590.58	2599.49	2543.83	2421.40	2178.20	1776.96	1231.57	481.39	78.13
120.0	2590.03	2585.57	2512.67	2375.77	2127.00	1699.60	1100.18	395.74	67.12
150.0	2587.24	2582.79	2521.57	2425.30	2188.78	1829.27	1302.80	559.86	91.21
180.0	2582.79	2566.65	2500.43	2391.35	2165.40	1754.14	1092.94	455.95	73.91
210.0	2588.91	2562.20	2490.41	2395.24	2163.18	1745.79	1079.03	465.53	68.34
240.0	2601.16	2575.00	2510.44	2433.64	2202.13	1849.86	1355.12	610.50	86.93
270.0	2590.58	2580.56	2508.77	2412.50	2152.60	1733.55	1095.39	443.21	66.50
300.0	2590.03	2590.03	2531.03	2457.02	2213.82	1822.59	1302.25	559.86	80.31
330.0	2587.24	2581.68	2519.35	2404.71	2144.81	1676.78	1096.61	385.00	60.99
360.0	2582.79	2588.36	2532.15	2442.55	2172.08	1749.69	1194.28	495.30	72.68

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	20.59	12.41	10.57	9.79	9.29	9.02	8.74	8.74	8.79
30.0	20.98	12.63	10.85	9.91	9.35	8.96	8.79	8.74	8.68
60.0	17.92	12.19	10.63	9.85	9.29	8.96	8.79	8.74	8.79
90.0	20.37	12.30	10.63	9.96	9.35	9.02	8.79	8.79	8.79
120.0	18.14	11.91	10.41	9.79	9.24	8.96	8.79	8.79	8.74
150.0	22.26	12.69	10.69	9.96	9.41	9.07	8.85	8.85	8.79
180.0	19.59	12.02	10.46	9.85	9.35	9.02	8.85	8.74	8.74
210.0	19.65	12.19	10.52	9.74	9.35	8.90	8.79	8.74	8.74
240.0	22.15	13.02	10.85	10.07	9.41	9.07	8.79	8.74	8.79
270.0	19.37	12.19	10.52	9.79	9.24	9.02	8.79	8.79	8.74
300.0	22.32	12.58	10.63	9.85	9.41	9.02	8.79	8.85	9.02
330.0	18.98	11.97	10.35	9.74	9.29	8.90	8.79	8.79	8.85
360.0	20.59	12.41	10.57	9.79	9.29	9.02	8.74	8.74	8.79

C/γ(°)	90.0
0.0	8.68
30.0	8.74
60.0	8.74
90.0	8.68
120.0	8.74
150.0	8.68
180.0	8.68
210.0	8.68
240.0	8.68
270.0	8.68
300.0	8.68
330.0	8.74
360.0	8.68