
Nata

LumCAT: 3-1920-E
Luminaire: 92.76.323.00
Report No: GC2017030709
Test No: NT-0010
LampCAT: PHILIPS SLM 1208 G6 L15
Lamp flux(lm): 2505.0
Number of Lamps: 1
Length(mm): 76
Phm Type: C

Voltage(V): 34.7000
Current(A): 0.6200
Power (W): 21.5140
PF: 0.0000
Ballast type: DC
Width(mm): 76
Height(mm): 0

Photometric Results

Lumens(lm): 2240.69
Efficiency(%): 89.45%
Lumens(lm)/Power(W): 104.15
Central intensity(cd): 3055.492
Maximum intensity(cd): 3055.492
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=55.2
 [C90/270]Total=55.2
Field angle(10%Imax): [C0/180]Total=75.6
 [C90/270]Total=75.6
Maximum s/h(1/2): C0_180=0.86 C90_270=0.86
Maximum s/h(1/4): C0_180=0.83 C90_270=0.83
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.45%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.512%

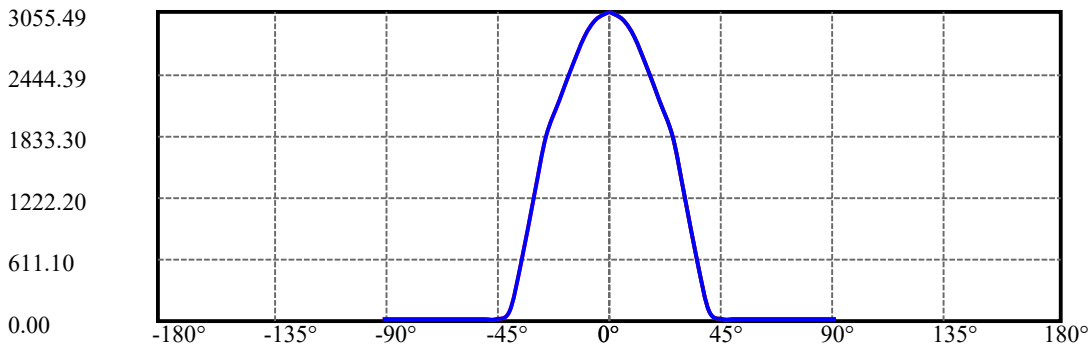
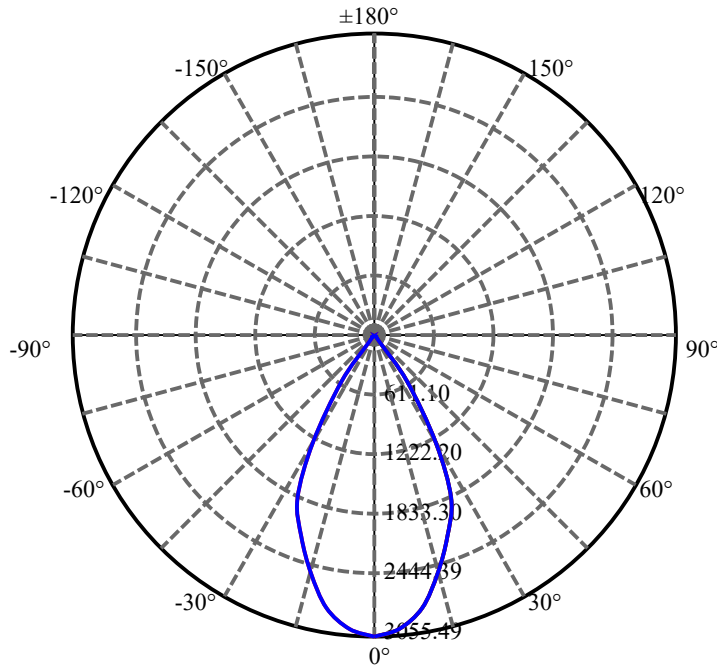
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3055.493	0.000	0	.000%	.000%
5.0	2986.190	72.227	72.227	2.883%	3.223%
10.0	2803.610	207.119	279.346	8.268%	12.467%
15.0	2490.270	314.029	593.375	12.536%	26.482%
20.0	2184.156	385.238	978.614	15.379%	43.675%
25.0	1828.561	420.860	1399.474	16.801%	62.457%
30.0	1251.370	389.768	1789.241	15.560%	79.852%
35.0	561.906	267.018	2056.259	10.659%	91.769%
40.0	102.611	110.870	2167.129	4.426%	96.717%
45.0	18.788	22.478	2189.607	.897%	97.720%
50.0	13.633	6.551	2196.158	.262%	98.013%
55.0	12.333	5.646	2201.804	.225%	98.265%
60.0	11.610	5.534	2207.338	.221%	98.512%
65.0	11.121	5.526	2212.864	.221%	98.758%
70.0	10.887	5.573	2218.437	.222%	99.007%
75.0	10.626	5.623	2224.06	.224%	99.258%
80.0	10.323	5.605	2229.665	.224%	99.508%
85.0	10.089	5.546	2235.212	.221%	99.756%
90.0	9.910	5.476	2240.688	.219%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1789.24	71.43%	79.85%
0-40	2167.13	86.51%	96.72%
0-60	2207.34	88.12%	98.51%
0-90	2235.21	89.23%	99.76%
0-120	2235.21	89.23%	99.76%
0-180	2240.69	89.45%	100.00%
60-90	33.41	1.33%	1.49%
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%
0-30.06	1792.55	71.56%	80.00%

ZONAL LUMEN SUMMARY

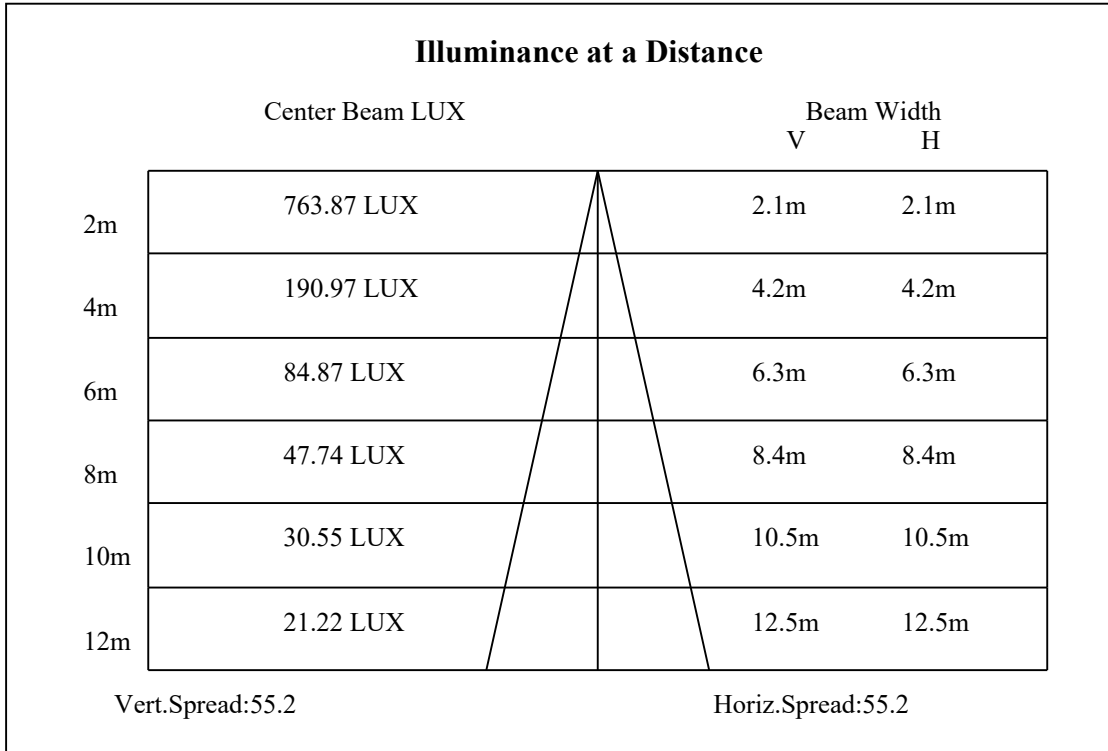
0-10	279.35
10-20	699.27
20-30	810.63
30-40	377.89
40-50	29.03
50-60	11.18
60-70	11.10
70-80	11.23
80-90	5.55
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

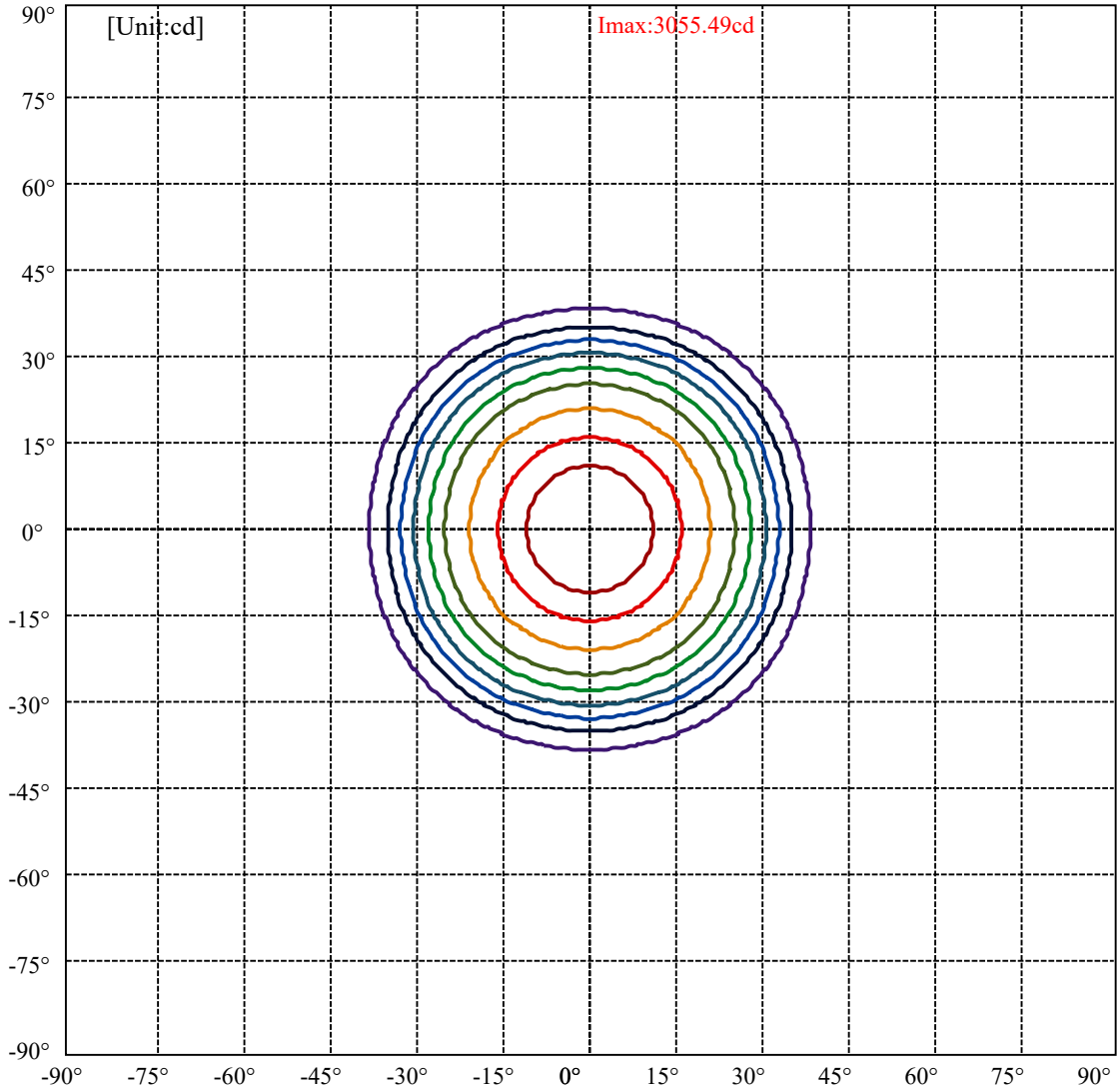


C0(Max): —————
C0/C180: —————
C90/C270: —————

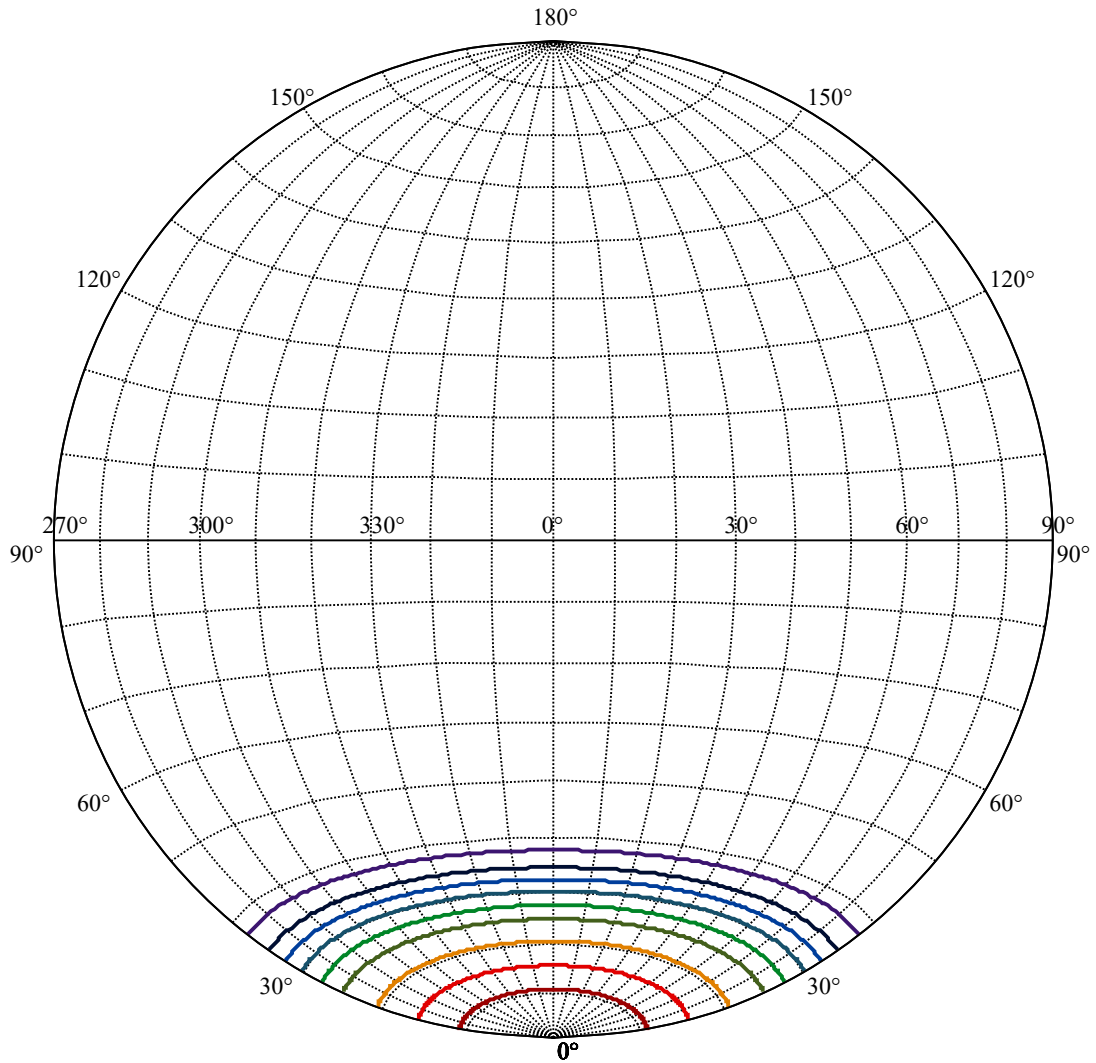
Field angle(10%Imax):C0/180Left:37.8 Right:37.8
:C90/270Left:37.8 Right:37.8

Beam Angle(50%Imax):C0/180Left:27.6 Right:27.6
:C90/270Left:27.6 Right:27.6





(10%Imax) 305.549	—
(20%Imax) 611.099	—
(30%Imax) 916.648	—
(40%Imax) 1222.2	—
(50%Imax) 1527.75	—
(60%Imax) 1833.3	—
(70%Imax) 2138.84	—
(80%Imax) 2444.39	—
(90%Imax) 2749.94	—



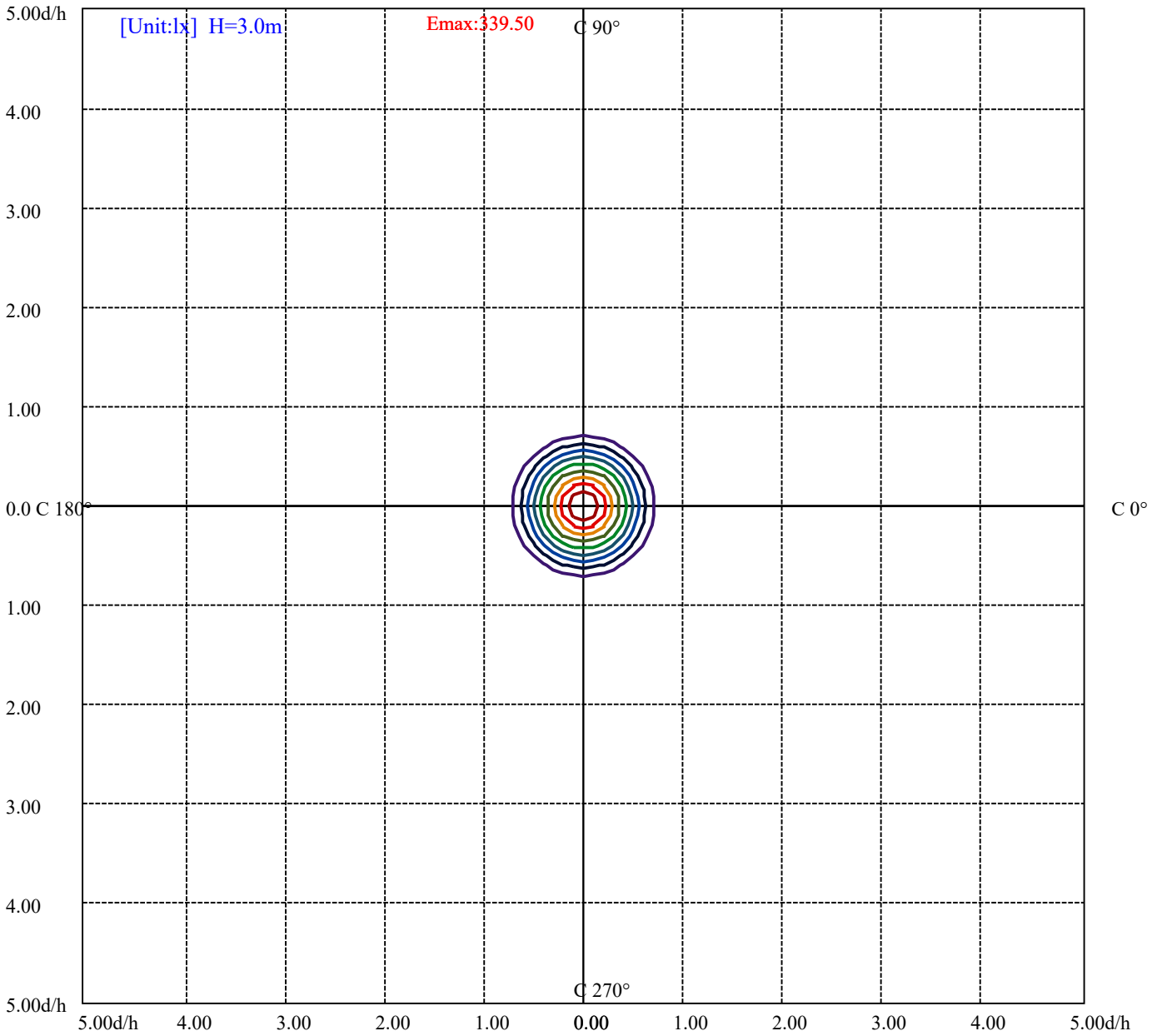
House

[Unit:cd]

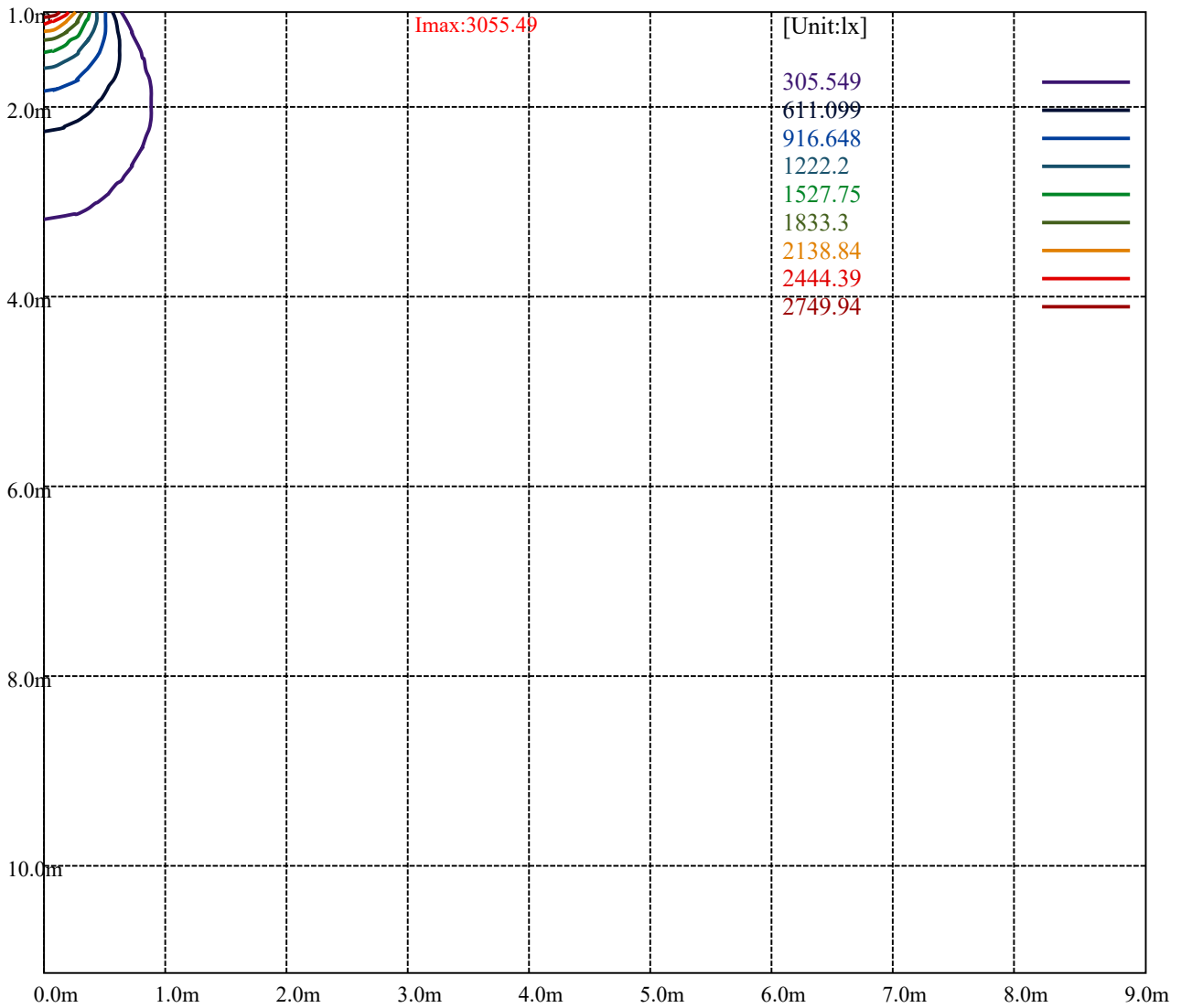
Road

Imax:3055.49

(10%Imax)	305.549	—
(20%Imax)	611.099	—
(30%Imax)	916.648	—
(40%Imax)	1222.2	—
(50%Imax)	1527.75	—
(60%Imax)	1833.3	—
(70%Imax)	2138.84	—
(80%Imax)	2444.39	—
(90%Imax)	2749.94	—



(10%Emax) 33.94989	—
(20%Emax) 67.89978	—
(30%Emax) 101.8497	—
(40%Emax) 135.8	—
(50%Emax) 169.75	—
(60%Emax) 203.6989	—
(70%Emax) 237.6489	—
(80%Emax) 271.5989	—
(90%Emax) 305.5489	—



Luminance Table

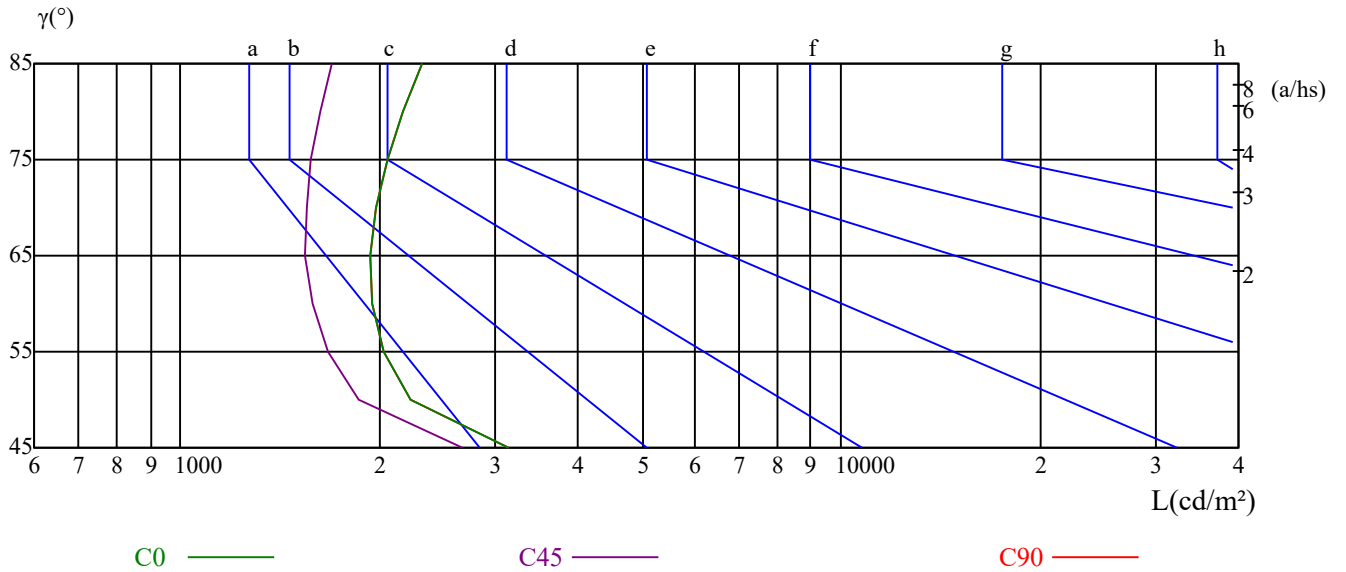
γ	45	50	55	60	65	70	75	80	85
C0	3144	2223	2028	1950	1932	1976	2051	2165	2318
C45	2679	1866	1676	1586	1544	1550	1576	1624	1693
C90	3144	2223	2028	1950	1932	1976	2051	2165	2318

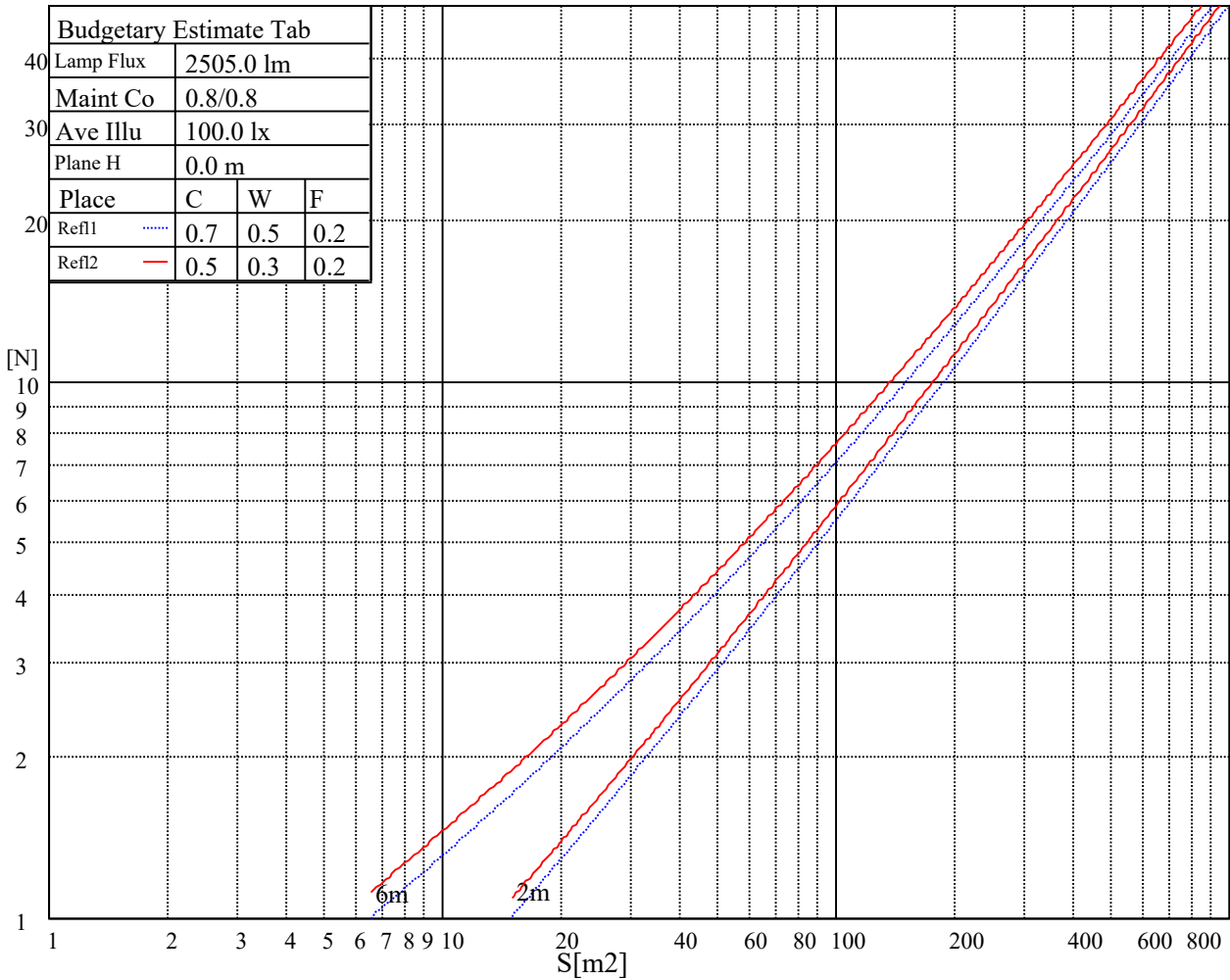
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4916	4916	4916	7563	7563	7563	21394	21394	21394

Glare Table

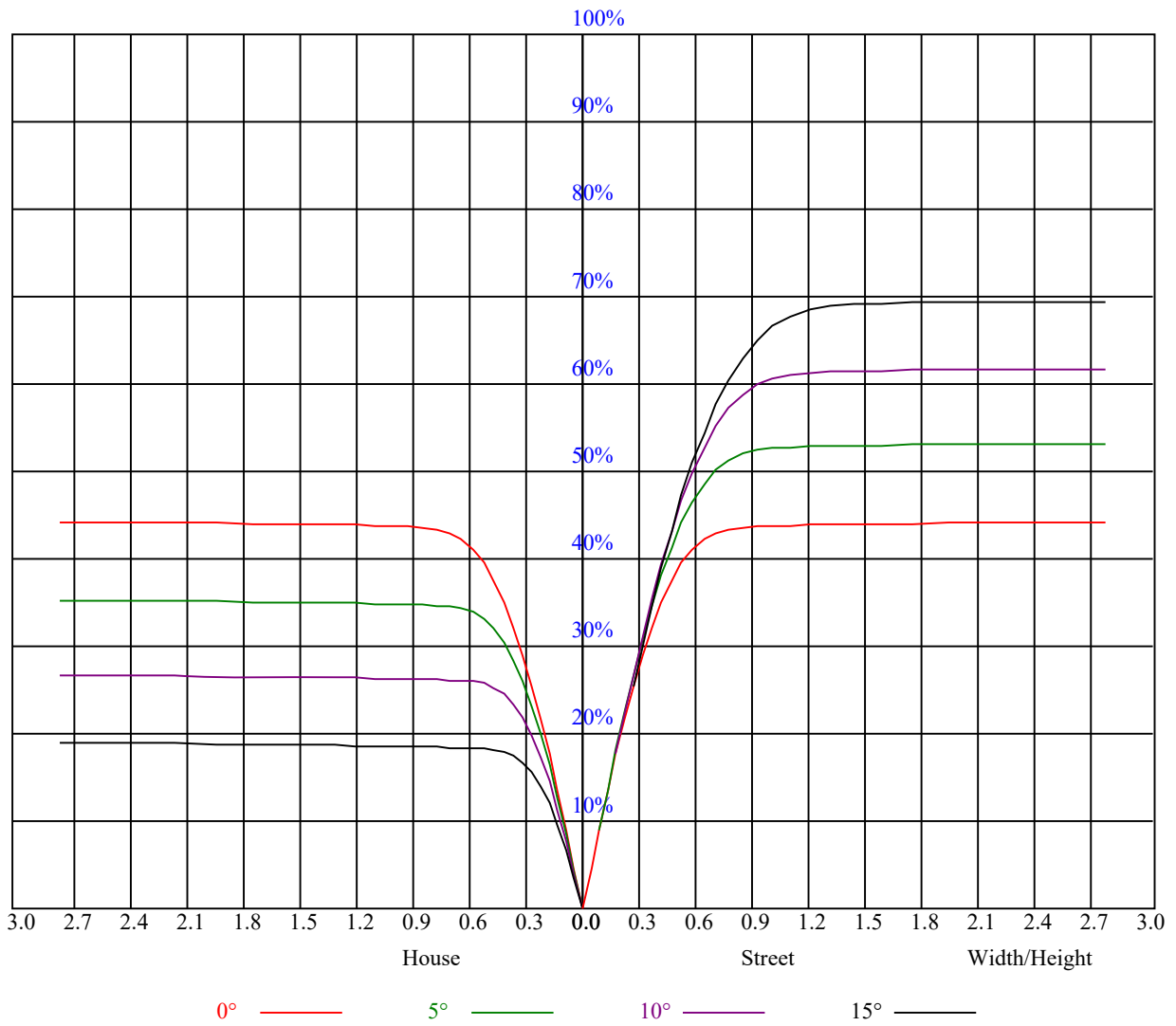
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.06	1.06	1.06	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	0.99	0.97	0.95	0.97	0.95	0.93	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	0.82	0.83	0.81	0.80	0.78
3	0.87	0.83	0.79	0.86	0.82	0.79	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.74
4	0.82	0.77	0.73	0.81	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.70	0.69
5	0.77	0.72	0.68	0.76	0.72	0.68	0.75	0.71	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.65
6	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.62	0.61
7	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.58
8	0.65	0.60	0.57	0.65	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.55
9	0.62	0.57	0.53	0.61	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.52
10	0.59	0.54	0.51	0.58	0.54	0.50	0.58	0.53	0.50	0.57	0.53	0.50	0.56	0.53	0.50	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	3056.18	2960.93	2792.46	2455.52	2115.82	1765.11	1317.50	505.42	54.67
45.0	3060.59	2981.85	2803.47	2457.72	2124.63	1817.41	1381.37	536.25	75.65
90.0	3053.43	2976.35	2769.34	2422.48	2110.31	1770.06	1061.43	487.80	50.32
135.0	3051.78	3023.15	2848.07	2582.15	2249.60	1899.45	1431.47	715.18	290.70
180.0	3056.18	3009.38	2847.52	2555.17	2256.21	1901.10	1283.36	628.41	87.70
225.0	3060.59	2990.11	2802.37	2528.74	2240.80	1842.19	1064.57	570.71	56.54
270.0	3053.43	2992.87	2814.48	2514.43	2245.75	1902.75	1387.42	637.55	152.01
315.0	3051.78	2954.88	2751.17	2405.96	2130.13	1730.42	1083.84	413.91	53.29
360.0	3056.18	2960.93	2792.46	2455.52	2115.82	1765.11	1317.50	505.42	54.67
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	18.17	13.49	12.22	11.62	11.01	10.63	10.41	10.19	9.97
45.0	20.21	13.65	12.55	11.78	11.56	11.12	10.46	10.24	10.08
90.0	17.23	13.54	12.39	11.67	11.45	12.11	12.39	11.18	10.63
135.0	19.66	13.82	12.39	11.67	11.12	10.74	10.41	10.24	10.08
180.0	18.88	13.32	12.00	11.40	10.85	10.52	10.30	10.13	9.97
225.0	17.62	13.54	12.22	11.51	10.90	10.63	10.30	10.19	10.02
270.0	21.42	14.26	12.66	11.78	11.12	10.74	10.41	10.24	9.97
315.0	17.12	13.43	12.22	11.45	10.96	10.63	10.35	10.19	10.02
360.0	18.17	13.49	12.22	11.62	11.01	10.63	10.41	10.19	9.97
C/γ(°)	90.0								
0.0	9.86								
45.0	9.91								
90.0	9.91								
135.0	9.91								
180.0	9.91								
225.0	9.91								
270.0	9.97								
315.0	9.91								
360.0	9.86								