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Nata

LumCAT: 2-1121-A4
Luminaire: 99.02.73.172+92.76.365.00
Report No: NATA0100
Test No: GC2018072503
LampCAT: BRIDGELUX V9 HD
Lamp flux(lm): 1153.0
Number of Lamps: 1
Length(mm): 71
Phm Type: C

Voltage(V): 34.0000
Current(A): 0.2900
Power (W): 9.8600
PF: 0.0000
Ballast type: DC
Width(mm): 71
Height(mm): 0

Photometric Results

Lumens(lm): 1042.08
Efficiency(%): 90.38%
Lumens(lm)/Power(W): 108.35
Central intensity(cd): 4560.872
Maximum intensity(cd): 4560.872
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=22.4
 [C90/270]Total=22.4
Field angle(10%Imax): [C0/180]Total=43.7
 [C90/270]Total=43.7
Maximum s/h(1/2): C0_180=0.38 C90_270=0.38
Maximum s/h(1/4): C0_180=0.37 C90_270=0.37
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.66%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.316%

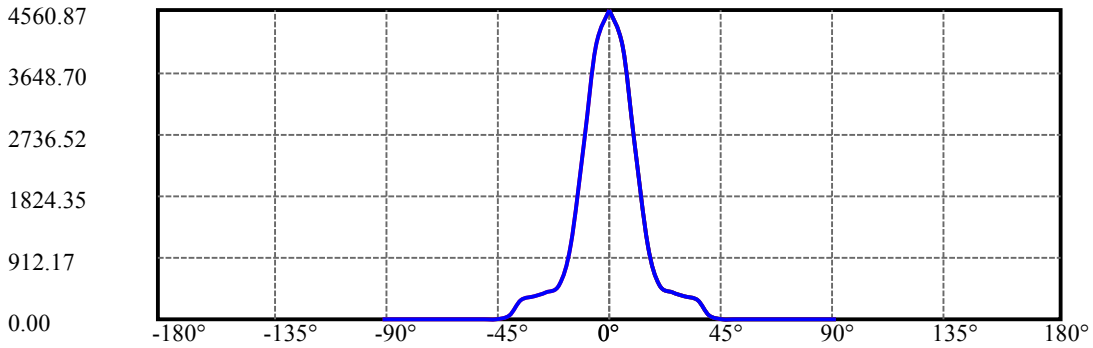
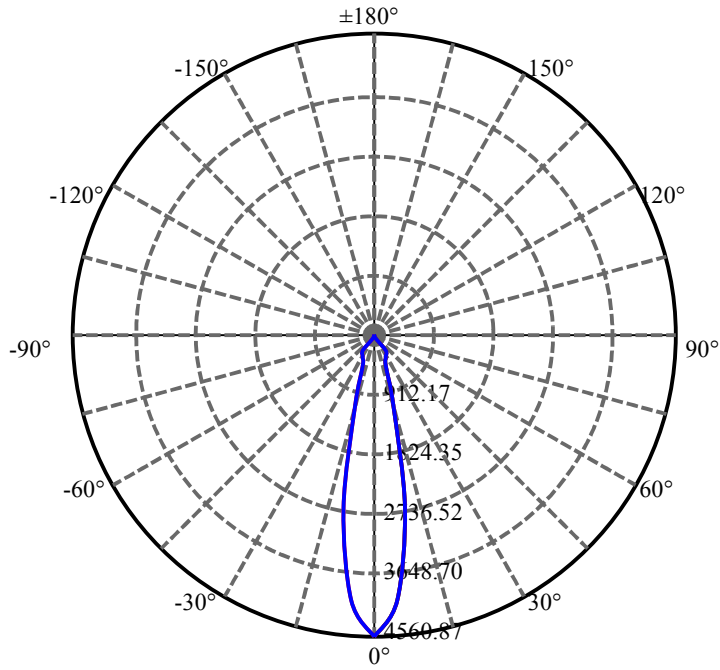
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4560.872	27.275	27.275	2.366%	2.617%
5.0	4034.327	192.733	220.008	16.716%	21.112%
10.0	2643.877	251.652	471.66	21.826%	45.261%
15.0	1105.299	156.807	628.467	13.600%	60.309%
20.0	498.398	93.437	721.904	8.104%	69.275%
25.0	384.665	89.109	811.013	7.728%	77.826%
30.0	352.980	96.741	907.754	8.390%	87.110%
35.0	285.433	89.740	997.493	7.783%	95.721%
40.0	61.119	21.535	1019.028	1.868%	97.788%
45.0	8.754	3.393	1022.421	.294%	98.113%
50.0	5.175	2.173	1024.594	.188%	98.322%
55.0	4.845	2.175	1026.77	.189%	98.531%
60.0	4.721	2.241	1029.011	.194%	98.746%
65.0	4.604	2.287	1031.298	.198%	98.965%
70.0	4.556	2.347	1033.645	.204%	99.190%
75.0	4.501	2.383	1036.028	.207%	99.419%
80.0	4.446	2.400	1038.427	.208%	99.649%
85.0	4.466	2.439	1040.866	.212%	99.883%
90.0	4.439	1.217	1042.083	.106%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	907.75	78.73%	87.11%
0-40	1019.03	88.38%	97.79%
0-60	1029.01	89.25%	98.75%
0-90	1040.87	90.27%	99.88%
0-120	1040.87	90.27%	99.88%
0-180	1042.08	90.38%	100.00%
60-90	14.10	1.22%	1.35%
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%
0-26.17	833.67	72.30%	80.00%

ZONAL LUMEN SUMMARY

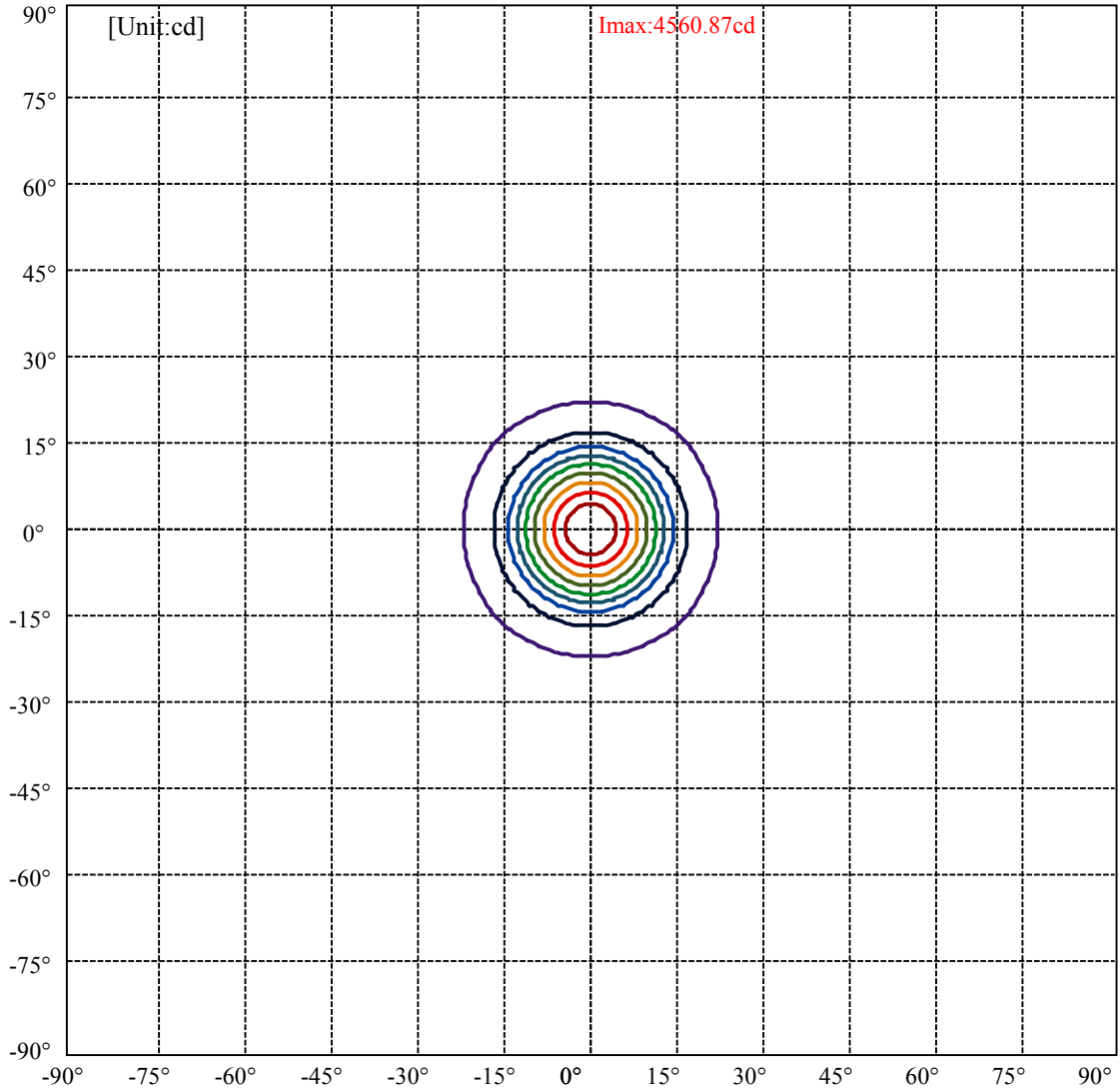
0-10	471.66
10-20	250.24
20-30	185.85
30-40	111.27
40-50	5.57
50-60	4.42
60-70	4.63
70-80	4.78
80-90	2.44
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



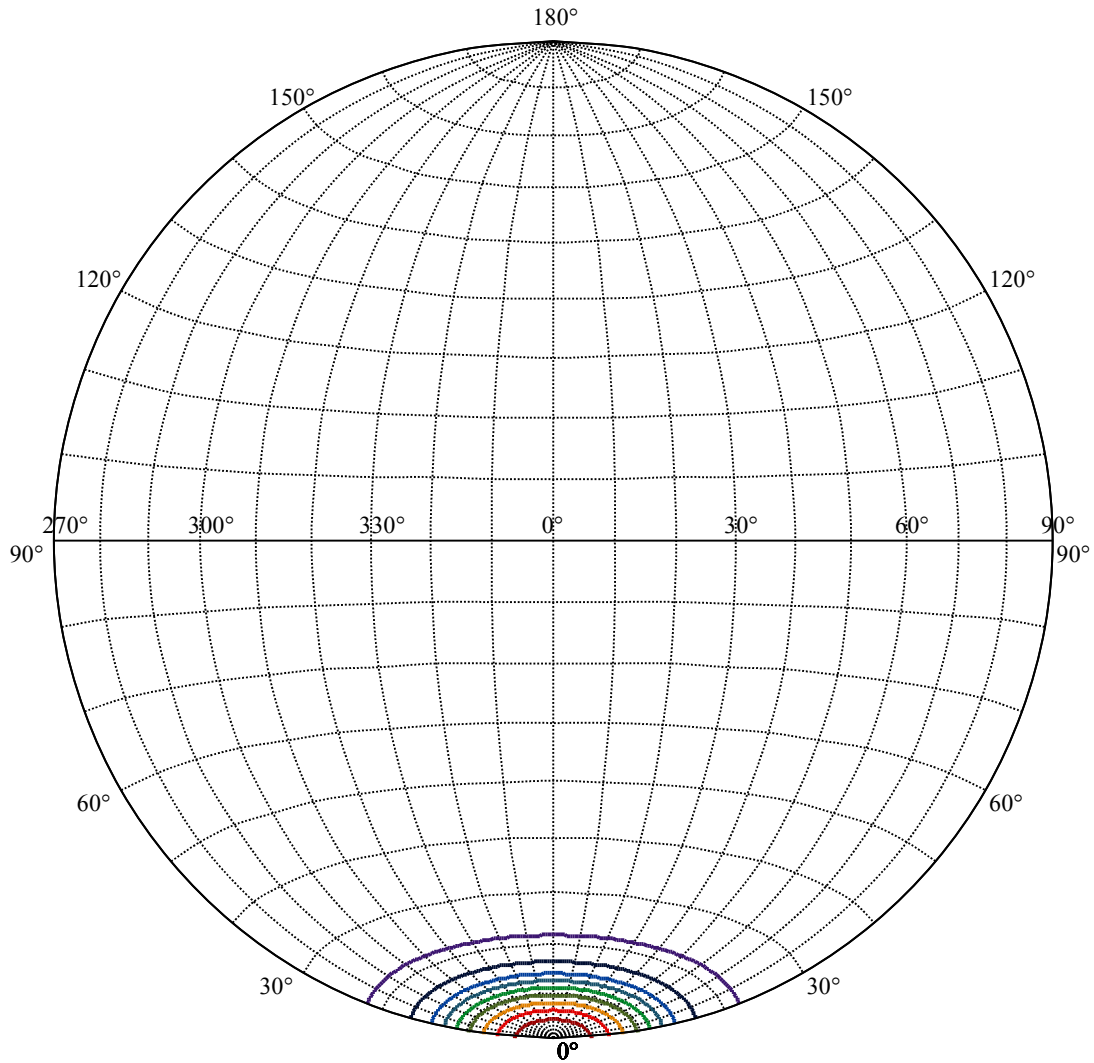
C0(Max): ———
C0/C180: ———
C90/C270: ———

Field angle(10%Imax):C0/180Left:21.9 Right:21.9
:C90/270Left:21.9 Right:21.9

Beam Angle(50%Imax):C0/180Left:11.2 Right:11.2
:C90/270Left:11.2 Right:11.2



(10%Imax) 456.087	—
(20%Imax) 912.174	—
(30%Imax) 1368.26	—
(40%Imax) 1824.35	—
(50%Imax) 2280.44	—
(60%Imax) 2736.52	—
(70%Imax) 3192.61	—
(80%Imax) 3648.7	—
(90%Imax) 4104.78	—



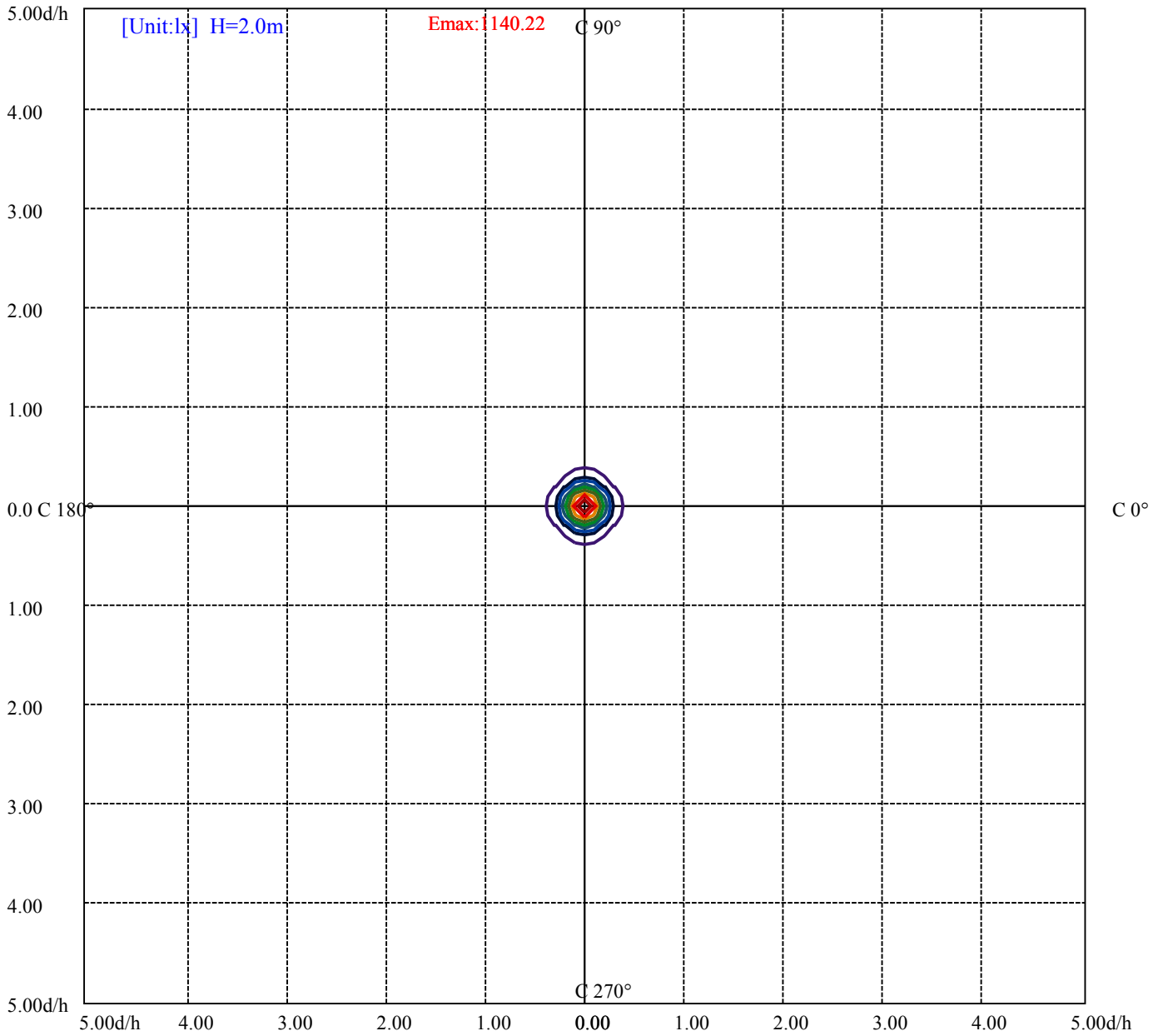
House

[Unit:cd]

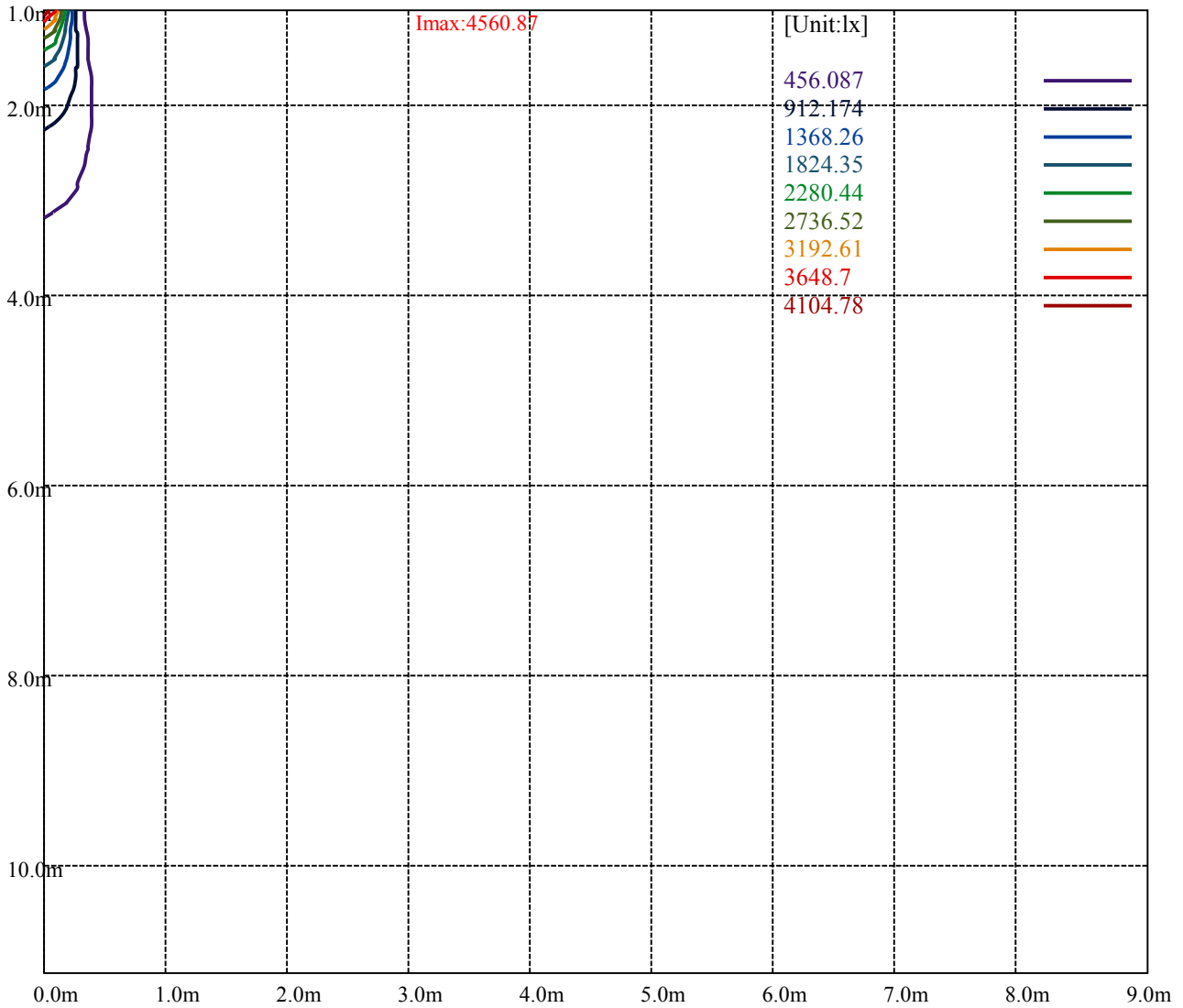
Road

Imax:4560.87

(10%Imax) 456.087	—
(20%Imax) 912.174	—
(30%Imax) 1368.26	—
(40%Imax) 1824.35	—
(50%Imax) 2280.44	—
(60%Imax) 2736.52	—
(70%Imax) 3192.61	—
(80%Imax) 3648.7	—
(90%Imax) 4104.78	—



- (10%Emax) 114.0215
- (20%Emax) 228.0428
- (30%Emax) 342.065
- (40%Emax) 456.085
- (50%Emax) 570.1075
- (60%Emax) 684.1275
- (70%Emax) 798.15
- (80%Emax) 912.17
- (90%Emax) 1026.193



Luminance Table

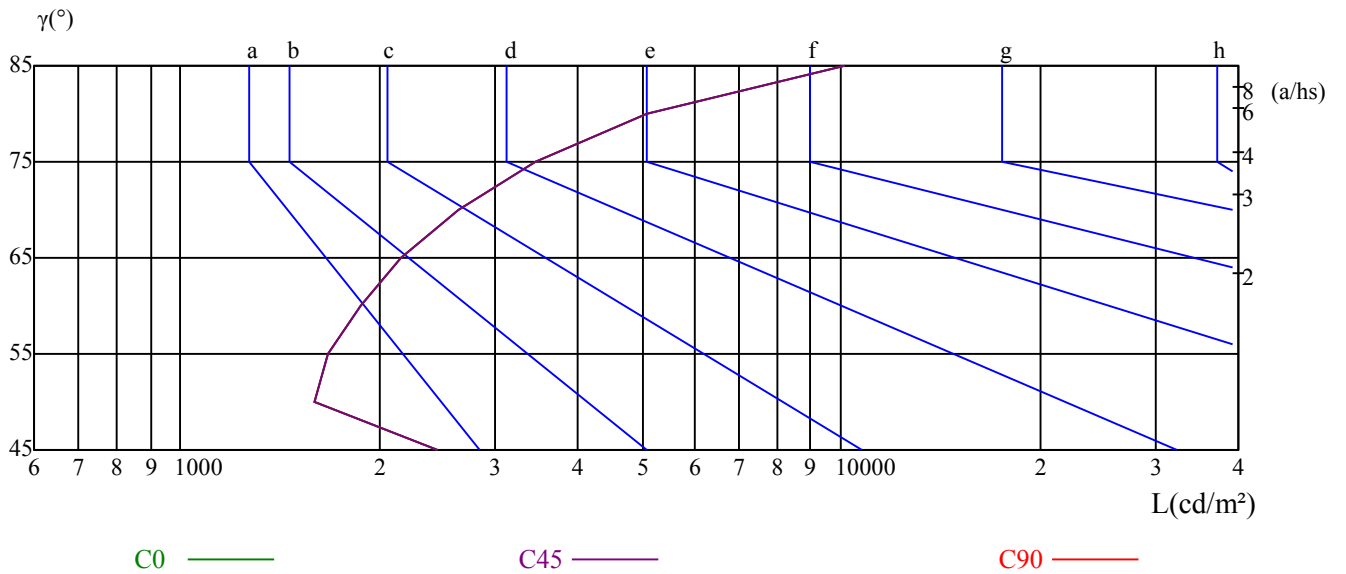
γ	45	50	55	60	65	70	75	80	85
C0	2456	1597	1676	1873	2161	2642	3450	5079	10166
C45	2456	1597	1676	1873	2161	2642	3450	5079	10166
C90	2456	1597	1676	1873	2161	2642	3450	5079	10166

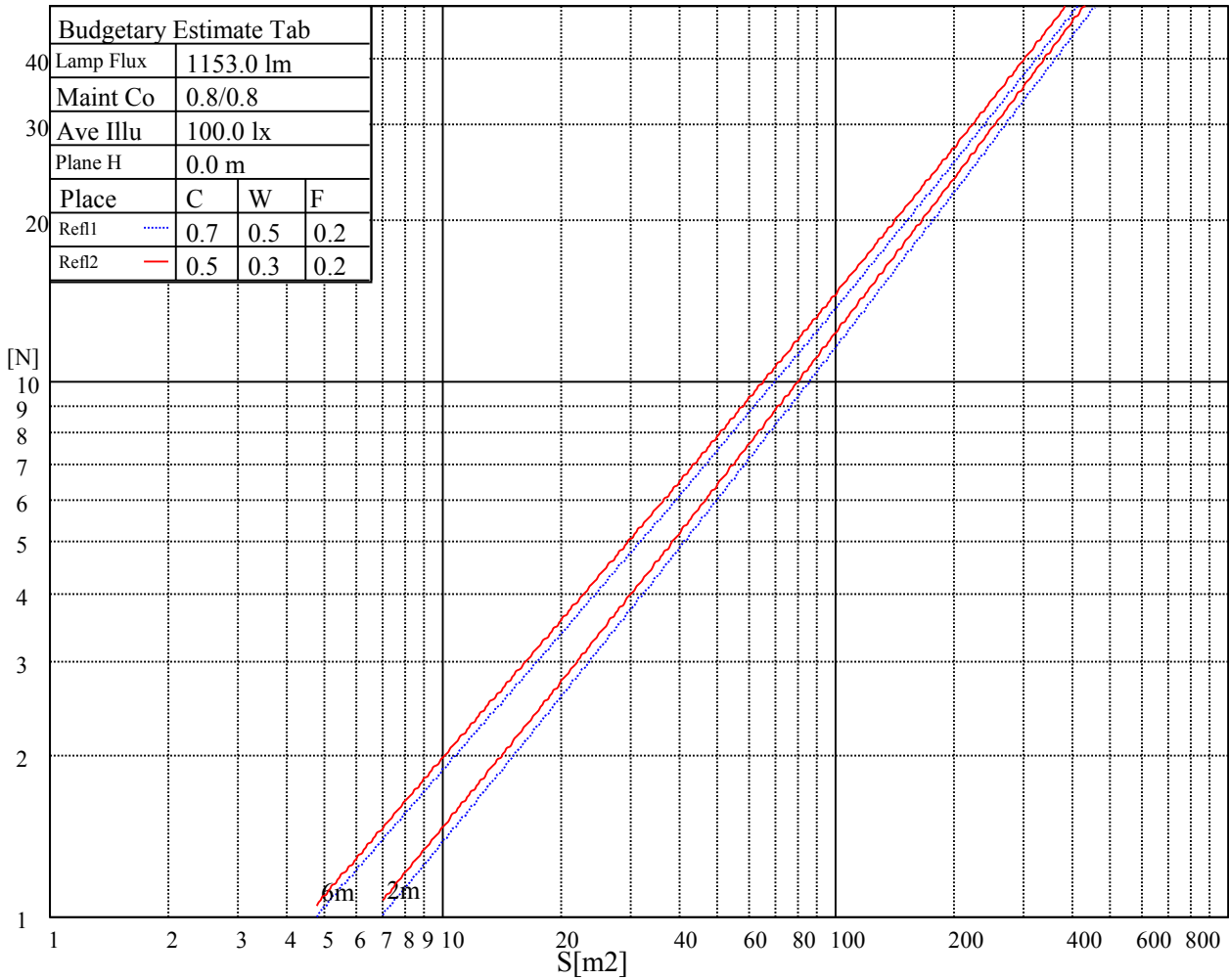
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2161	2161	2161	3450	3450	3450	10166	10166	10166

Glare Table

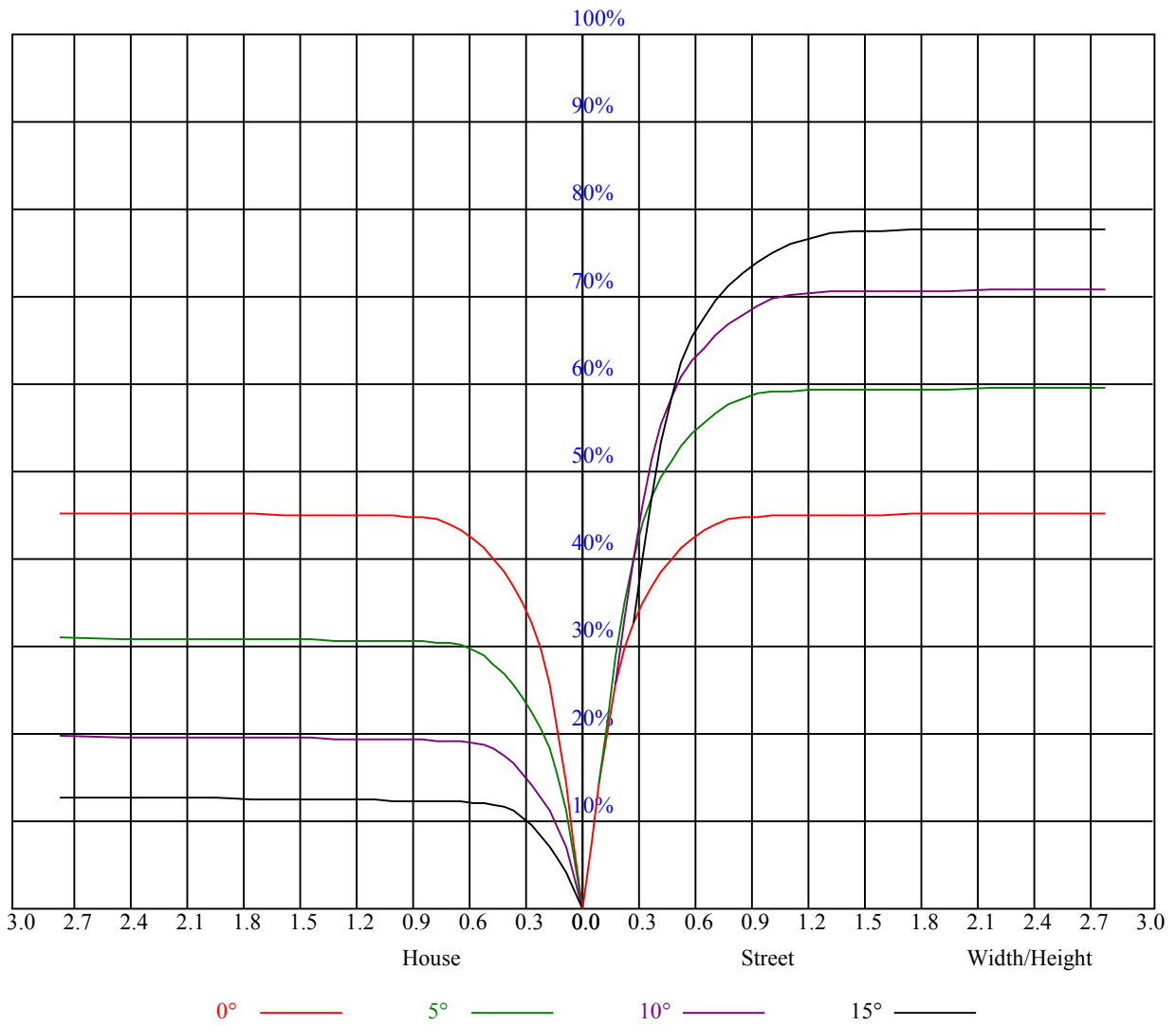
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.01	0.98	0.96	0.99	0.97	0.94	0.95	0.93	0.91	0.92	0.90	0.89	0.89	0.87	0.86	0.84
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.86	0.89	0.86	0.84	0.86	0.84	0.83	0.81
3	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.81	0.80	0.78
4	0.88	0.83	0.80	0.87	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.78	0.81	0.79	0.77	0.75
5	0.84	0.80	0.76	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.73
6	0.81	0.77	0.73	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
7	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.69
8	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67
9	0.74	0.69	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.65
10	0.71	0.67	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.63



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	4531.69	4351.11	3288.52	1575.71	614.43	399.71	360.62	332.54	210.70
45.0	4553.71	4386.89	3316.05	1650.04	627.64	389.80	358.42	329.24	98.88
90.0	4582.89	4093.44	2653.17	991.95	471.50	380.83	349.33	296.97	31.99
135.0	4575.19	3991.04	2481.94	930.45	454.22	377.14	347.41	300.06	33.86
180.0	4531.69	3622.16	2005.70	719.64	418.98	369.54	339.97	194.51	11.67
225.0	4553.71	3742.18	2154.91	873.47	437.70	377.96	350.38	210.10	14.59
270.0	4582.89	4032.88	2655.92	1063.69	494.96	393.65	361.72	311.07	34.58
315.0	4575.19	4054.90	2594.81	1037.43	467.76	388.70	355.99	308.98	52.69
360.0	4531.69	4351.11	3288.52	1575.71	614.43	399.71	360.62	332.54	210.70
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	12.44	5.84	4.96	4.79	4.68	4.62	4.57	4.51	4.51
45.0	11.51	5.40	5.01	4.90	4.73	4.68	4.62	4.51	4.57
90.0	6.83	5.01	4.90	4.79	4.68	4.68	4.51	4.51	4.51
135.0	7.54	4.96	4.73	4.62	4.51	4.51	4.46	4.40	4.51
180.0	5.67	5.12	4.84	4.79	4.62	4.57	4.57	4.51	4.51
225.0	6.39	5.01	4.79	4.62	4.57	4.46	4.46	4.40	4.40
270.0	9.14	5.07	4.73	4.62	4.51	4.46	4.40	4.35	4.35
315.0	10.52	5.01	4.79	4.62	4.51	4.46	4.40	4.35	4.35
360.0	12.44	5.84	4.96	4.79	4.68	4.62	4.57	4.51	4.51
C/ γ (°)	90.0								
0.0	4.46								
45.0	4.51								
90.0	4.51								
135.0	4.46								
180.0	4.46								
225.0	4.46								
270.0	4.35								
315.0	4.29								
360.0	4.46								