
Nata

LumCAT: 3-1943-M
Luminaire: BJB 47.319.2141
Report No: GC2017050313
Test No: 2017041506
LampCAT: BRIDGELUX V18B
Lamp flux(lm): 3874.0
Number of Lamps: 1
Length(mm): 86
Phm Type: C

Voltage(V): 35.0000
Current(A): 0.8000
Power (W): 28.0000
PF: 0.0000
Ballast type: DC
Width(mm): 86
Height(mm): 0

Photometric Results

Lumens(lm): 3481.63
Efficiency(%): 89.87%
Lumens(lm)/Power(W): 124.34
Central intensity(cd): 10266.780
Maximum intensity(cd): 10266.780
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=29.5
 [C90/270]Total=29.5
Field angle(10%Imax): [C0/180]Total=62.2
 [C90/270]Total=62.2
Maximum s/h(1/2): C0_180=0.50 C90_270=0.50
Maximum s/h(1/4): C0_180=0.48 C90_270=0.48
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.87%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.740%

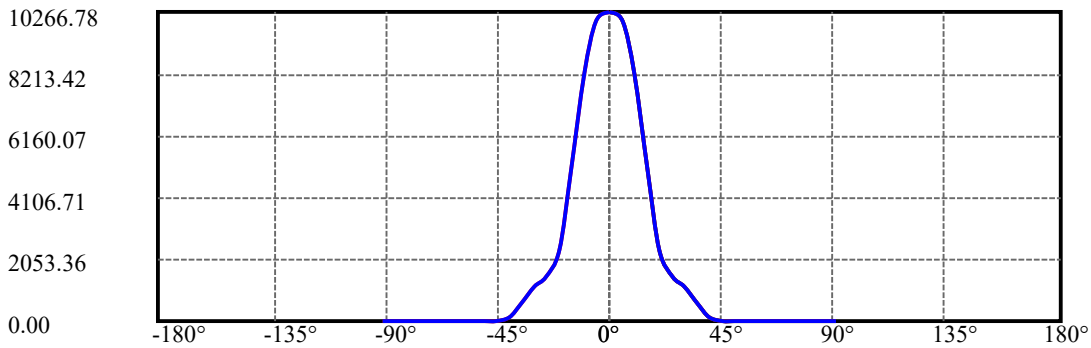
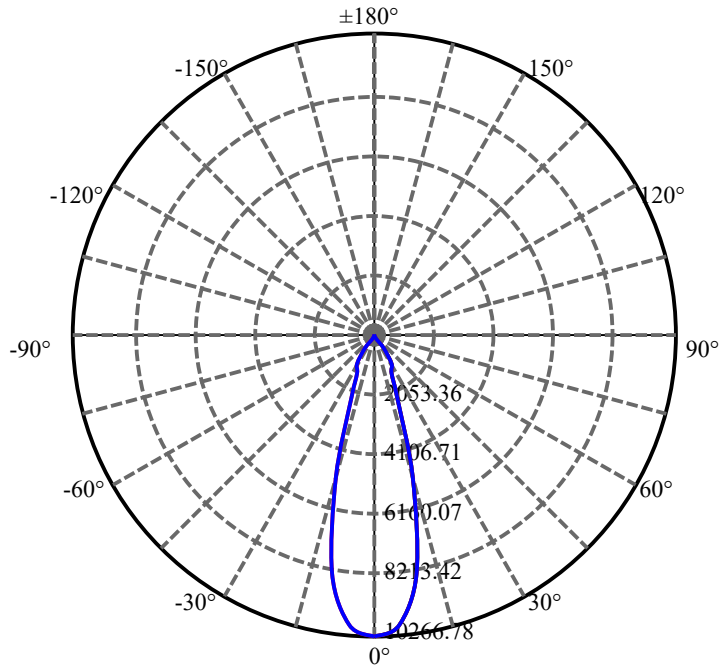
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10266.780	0.000	0	.000%	.000%
5.0	9938.300	241.546	241.546	6.235%	6.938%
10.0	8237.332	650.200	891.746	16.784%	25.613%
15.0	4981.434	784.128	1675.874	20.241%	48.135%
20.0	2331.157	602.660	2278.534	15.557%	65.445%
25.0	1462.436	397.878	2676.412	10.270%	76.872%
30.0	1150.211	330.633	3007.045	8.535%	86.369%
35.0	593.721	256.806	3263.851	6.629%	93.745%
40.0	140.938	122.572	3386.423	3.164%	97.266%
45.0	20.832	29.953	3416.376	.773%	98.126%
50.0	16.441	7.532	3423.908	.194%	98.342%
55.0	15.333	6.909	3430.816	.178%	98.541%
60.0	14.707	6.944	3437.76	.179%	98.740%
65.0	14.315	7.055	3444.815	.182%	98.943%
70.0	14.060	7.185	3452	.185%	99.149%
75.0	13.867	7.300	3459.3	.188%	99.359%
80.0	13.771	7.395	3466.695	.191%	99.571%
85.0	13.792	7.489	3474.184	.193%	99.786%
90.0	13.392	7.443	3481.628	.192%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3007.04	77.62%	86.37%
0-40	3386.42	87.41%	97.27%
0-60	3437.76	88.74%	98.74%
0-90	3474.18	89.68%	99.79%
0-120	3474.18	89.68%	99.79%
0-180	3481.63	89.87%	100.00%
60-90	43.37	1.12%	1.25%
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%
0-26.65	2785.30	71.90%	80.00%

ZONAL LUMEN SUMMARY

0-10	891.75
10-20	1386.79
20-30	728.51
30-40	379.38
40-50	37.48
50-60	13.85
60-70	14.24
70-80	14.70
80-90	7.49
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: —————

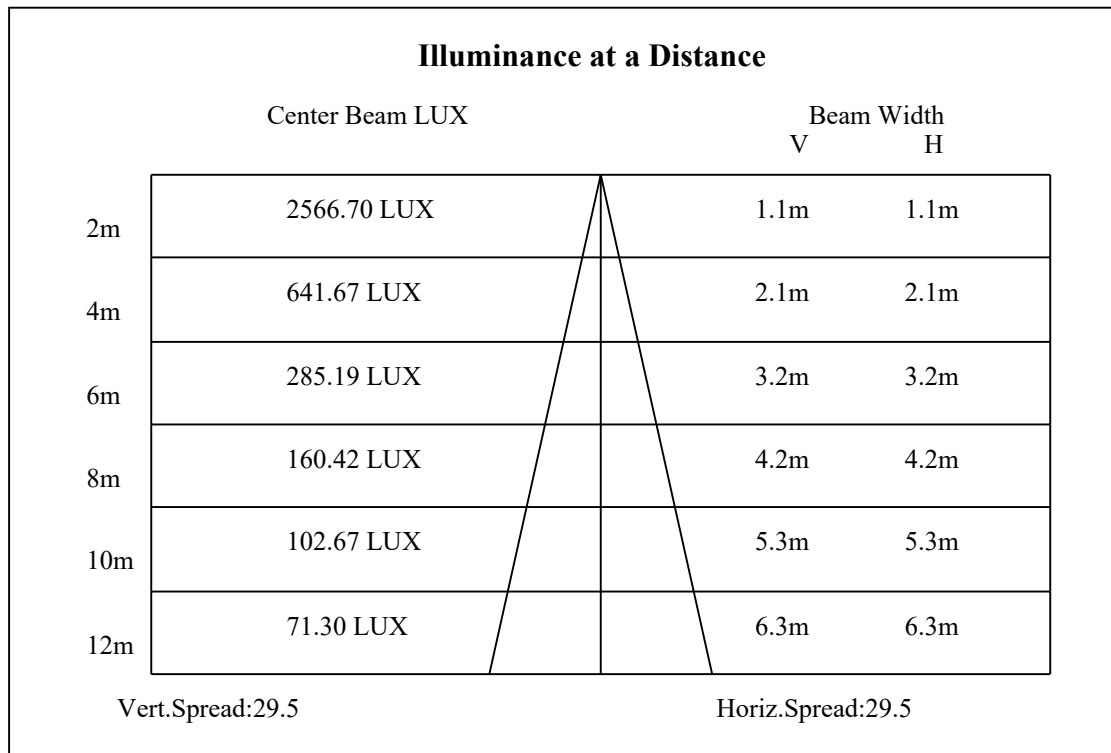
C90/C270: —————

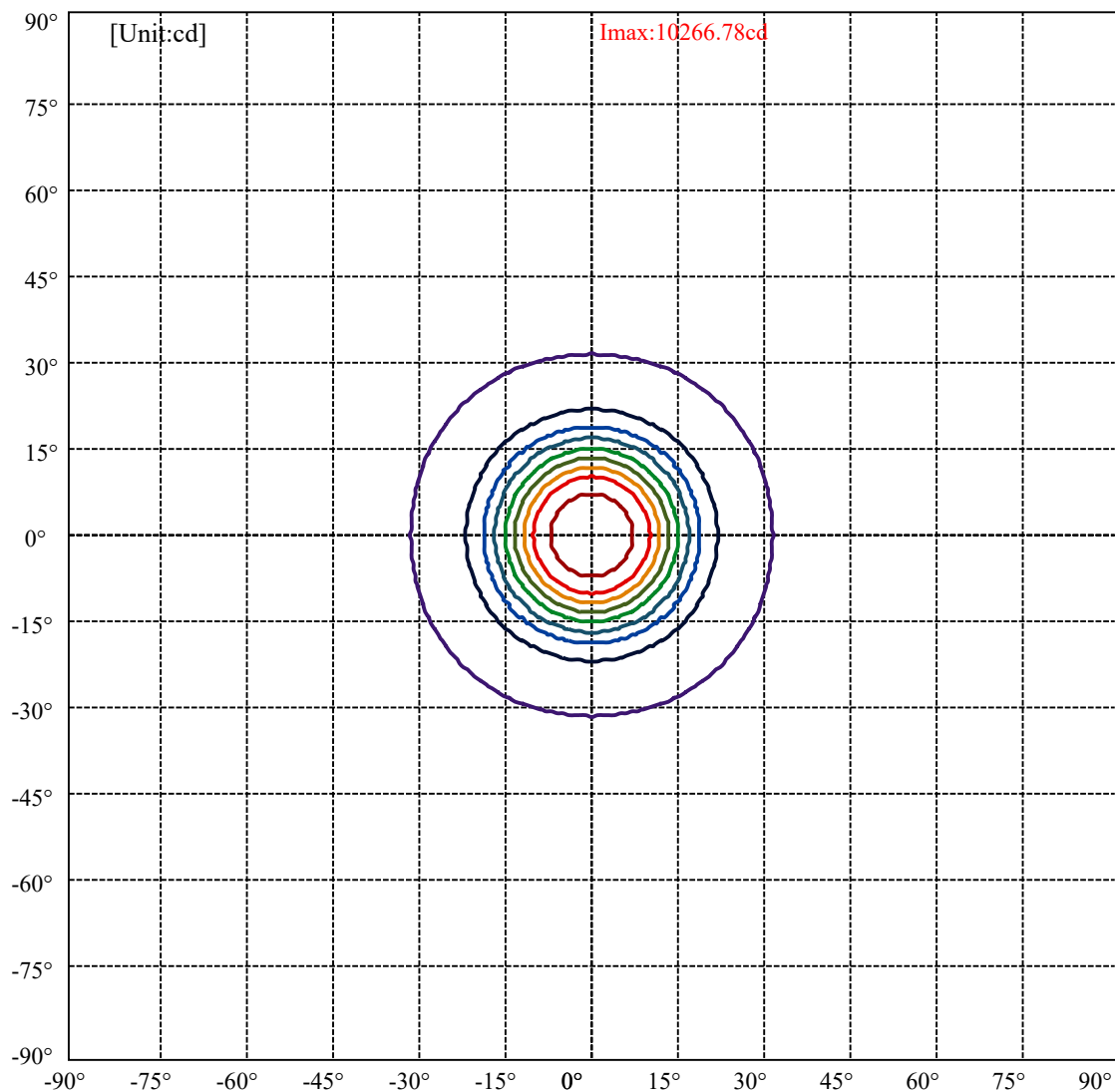
Field angle(10%Imax):C0/180Left:31.1 Right:31.1

:C90/270Left:31.1 Right:31.1

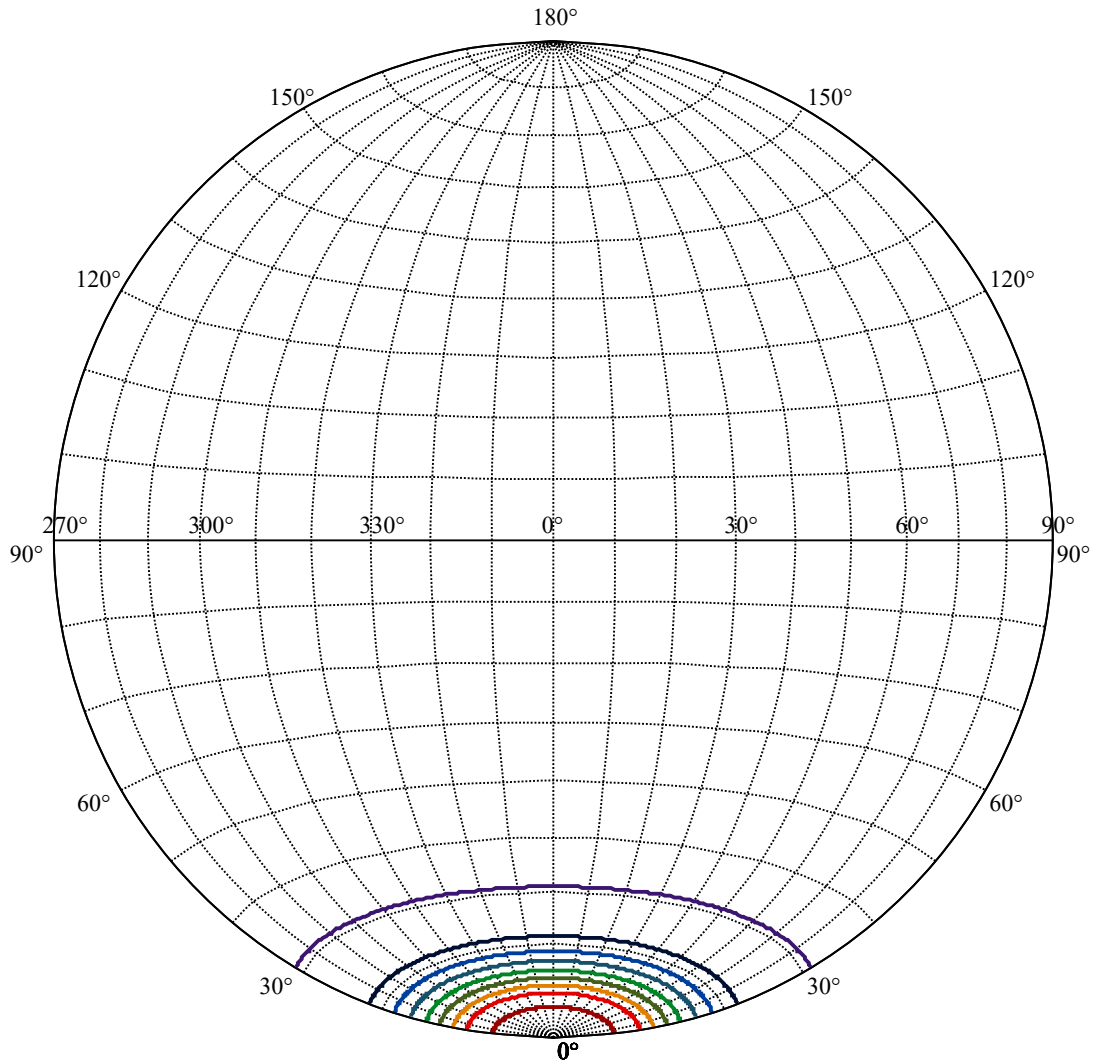
Beam Angle(50%Imax):C0/180Left:14.8 Right:14.8

:C90/270Left:14.8 Right:14.8





(10%Imax) 1026.68	—
(20%Imax) 2053.36	—
(30%Imax) 3080.03	—
(40%Imax) 4106.71	—
(50%Imax) 5133.39	—
(60%Imax) 6160.07	—
(70%Imax) 7186.75	—
(80%Imax) 8213.42	—
(90%Imax) 9240.1	—



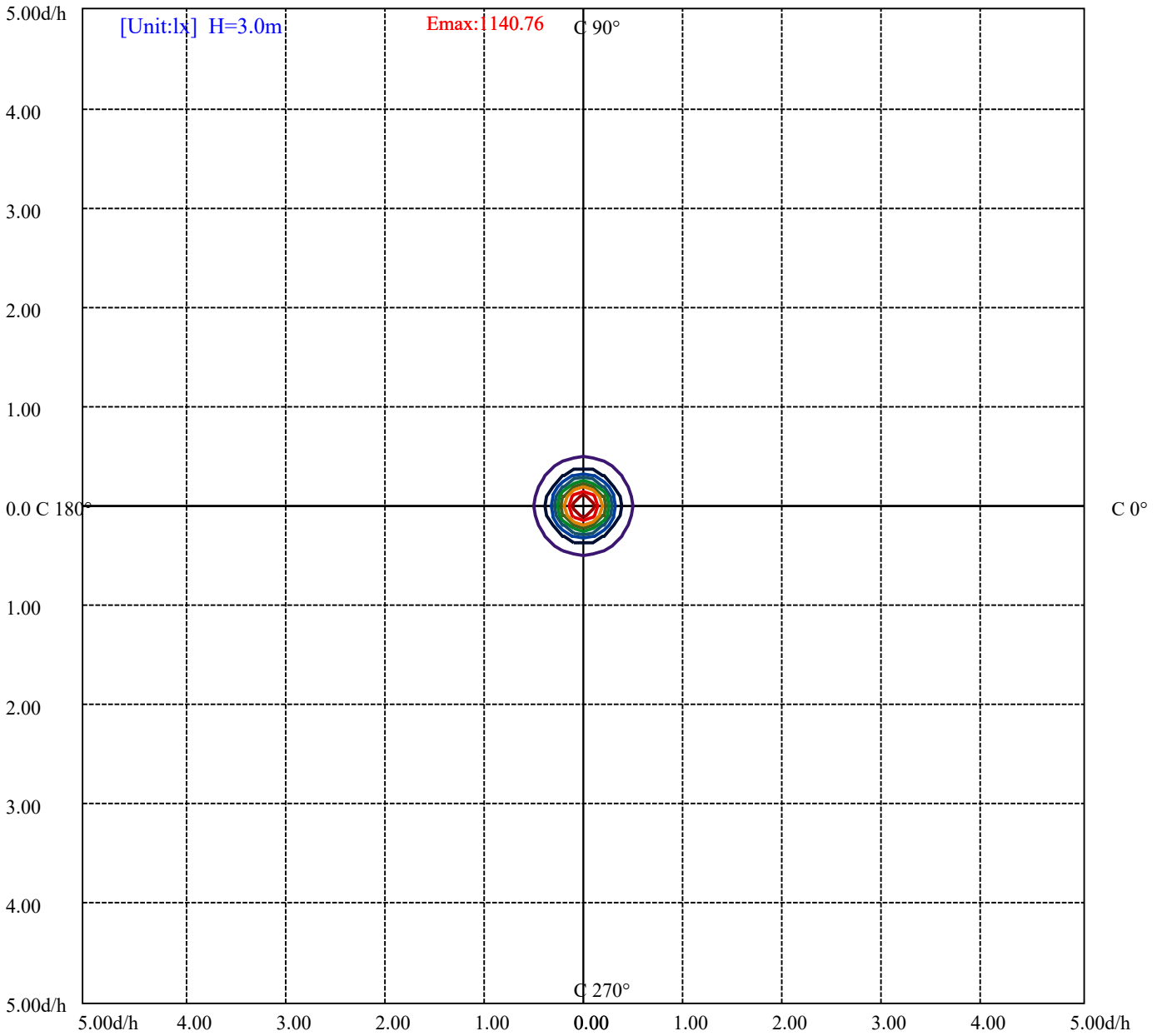
House

[Unit:cd]

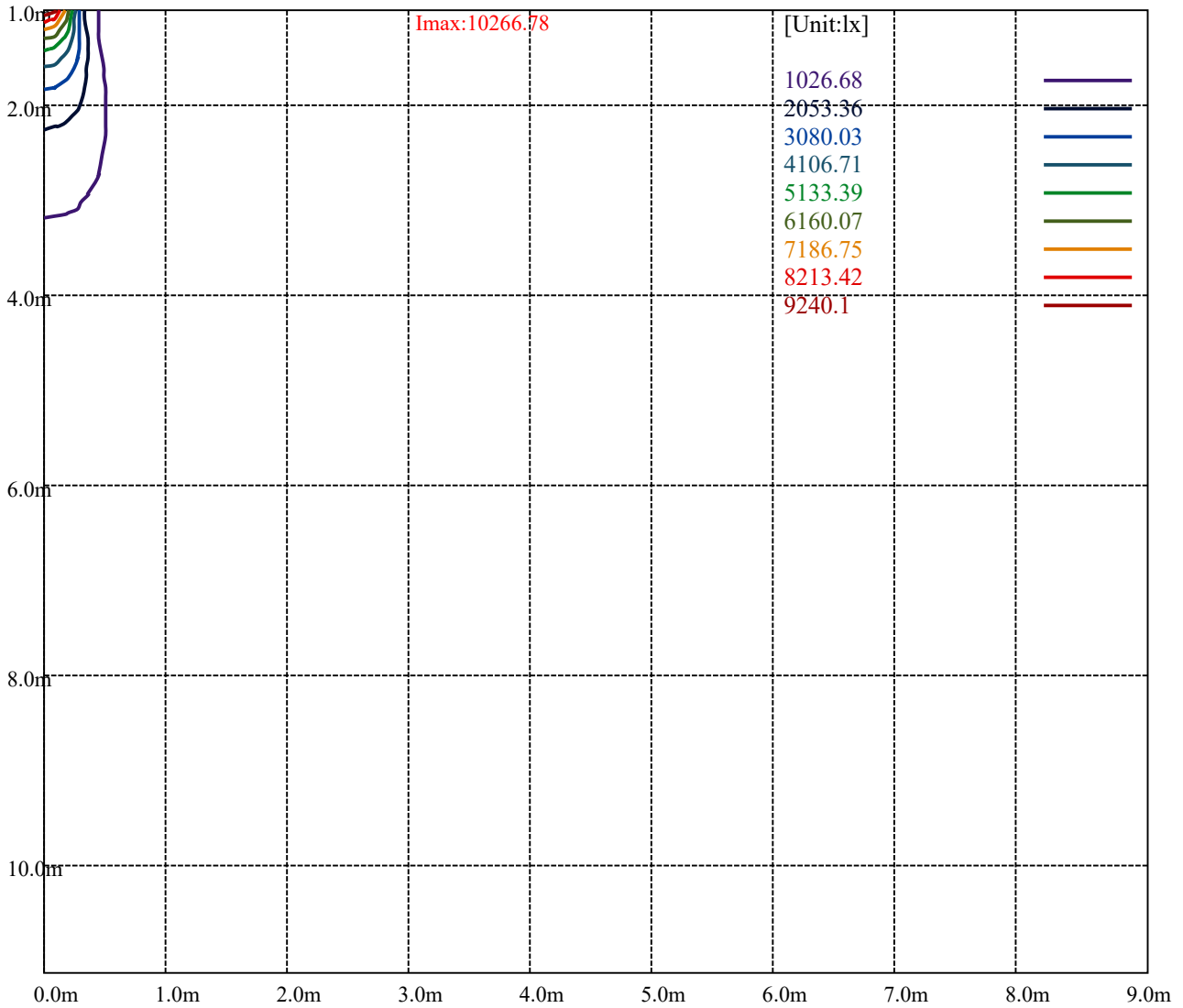
Road

Imax:10266.78

(10%Imax)	1026.68	—
(20%Imax)	2053.36	—
(30%Imax)	3080.03	—
(40%Imax)	4106.71	—
(50%Imax)	5133.39	—
(60%Imax)	6160.07	—
(70%Imax)	7186.75	—
(80%Imax)	8213.42	—
(90%Imax)	9240.1	—



- (10%Emax) 114.0756
- (20%Emax) 228.15
- (30%Emax) 342.2256
- (40%Emax) 456.3011
- (50%Emax) 570.3755
- (60%Emax) 684.4511
- (70%Emax) 798.5267
- (80%Emax) 912.6022
- (90%Emax) 1026.677



Luminance Table

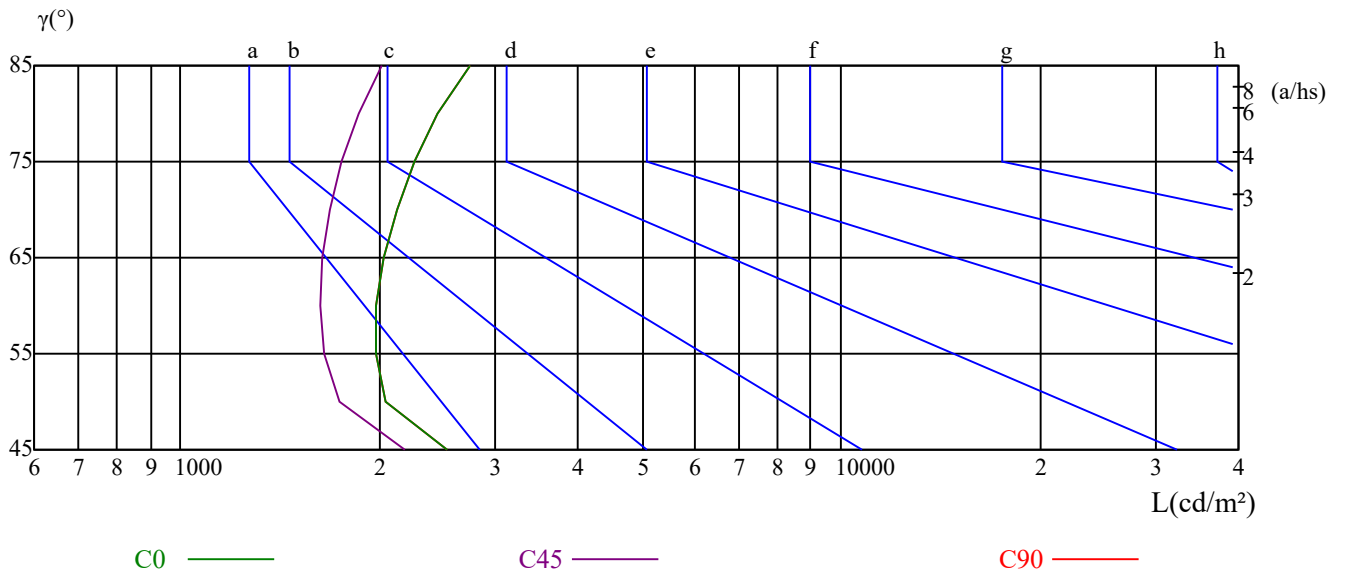
γ	45	50	55	60	65	70	75	80	85
C0	2530	2047	1975	1977	2028	2122	2259	2456	2740
C45	2186	1743	1655	1629	1642	1685	1754	1858	2011
C90	2530	2047	1975	1977	2028	2122	2259	2456	2740

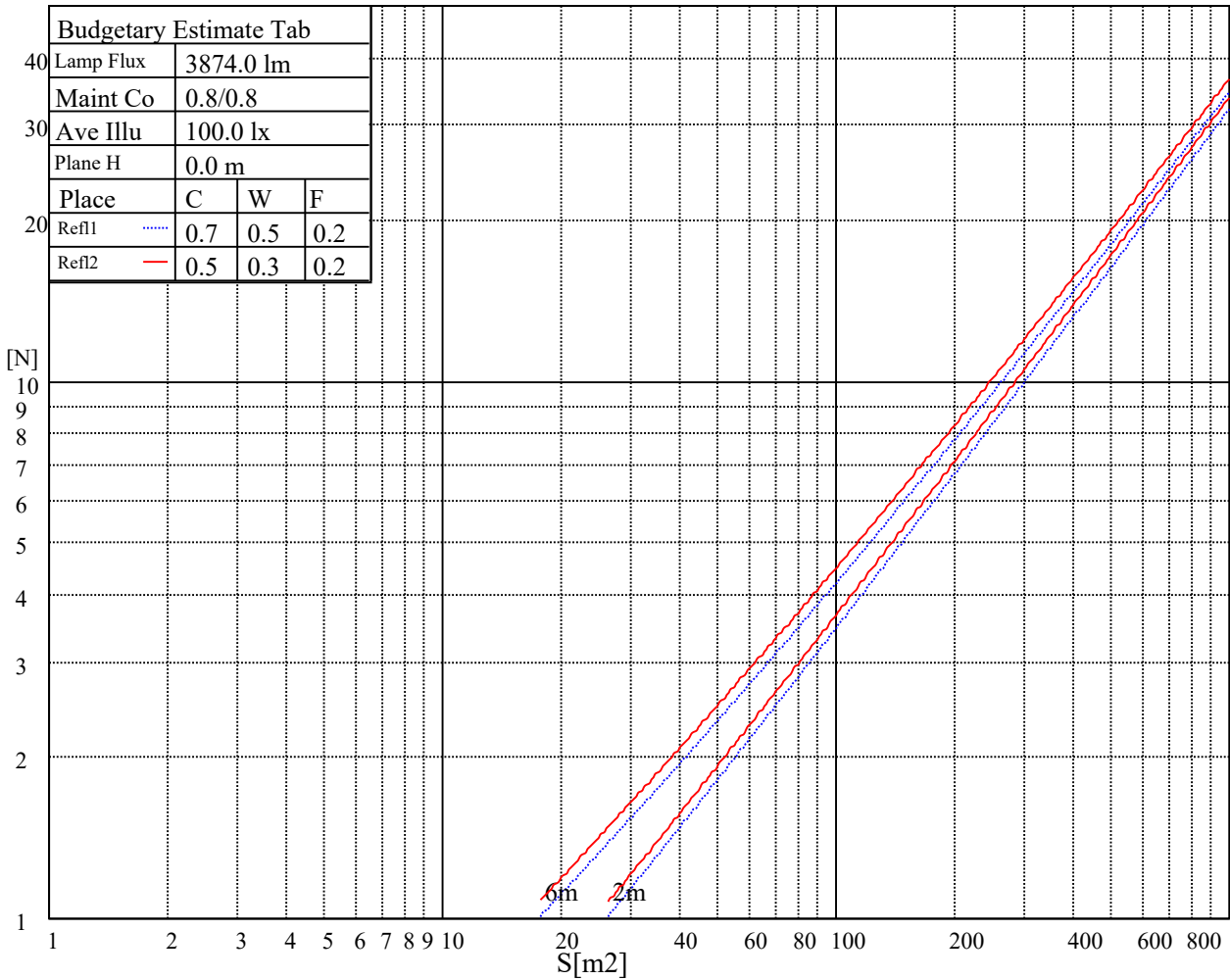
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4688	4688	4688	7416	7416	7416	21902	21902	21902

Glare Table

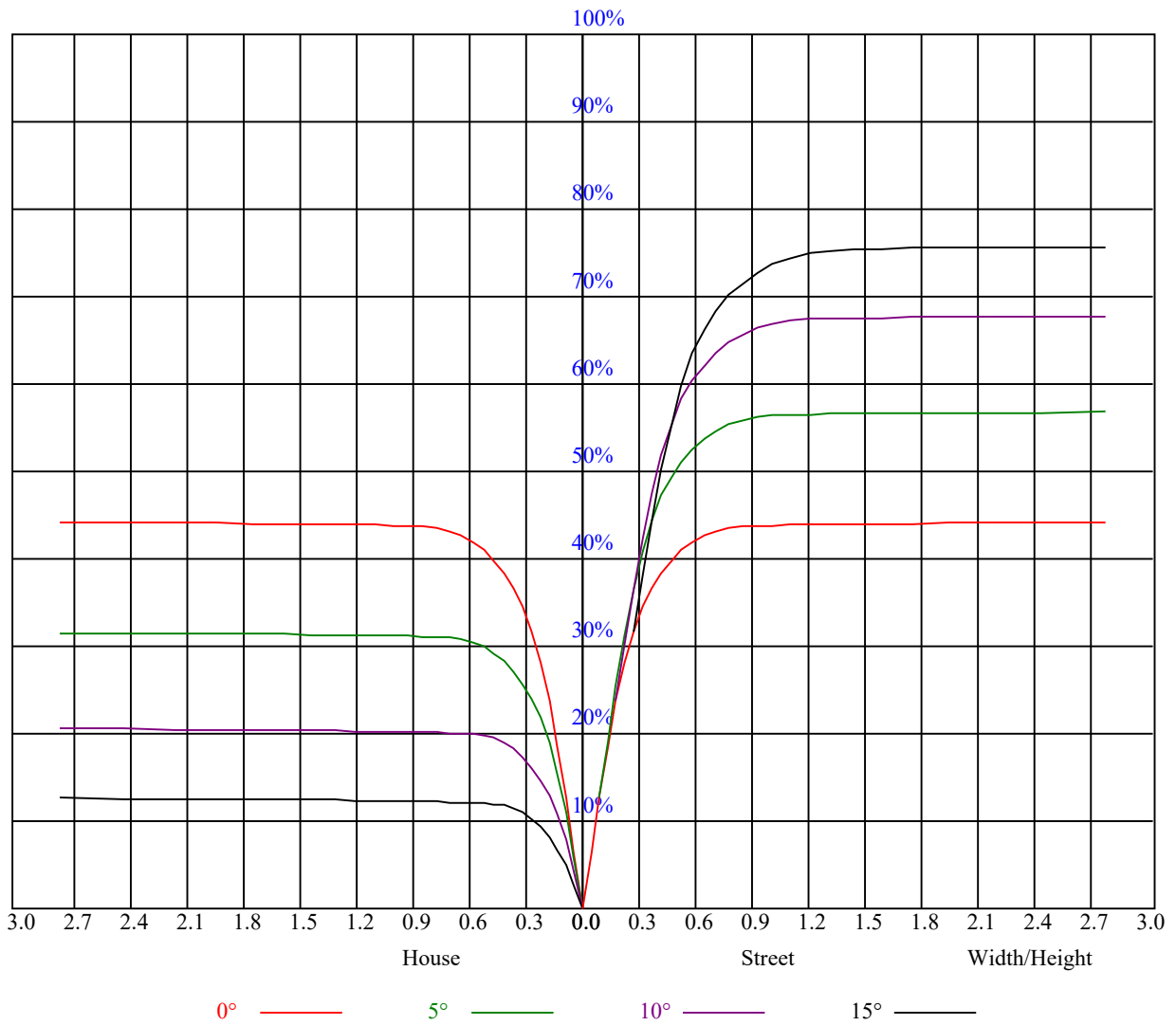
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.92	0.92	0.91	0.90	0.89	0.88	0.87	0.85
2	0.95	0.92	0.89	0.93	0.91	0.88	0.91	0.88	0.86	0.88	0.86	0.85	0.86	0.84	0.83	0.81
3	0.90	0.86	0.83	0.89	0.85	0.83	0.87	0.84	0.81	0.84	0.82	0.80	0.83	0.81	0.79	0.78
4	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.80	0.77	0.75	0.74
5	0.82	0.78	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
6	0.78	0.74	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
7	0.75	0.71	0.68	0.75	0.70	0.68	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.65
8	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.63
9	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61
10	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.65	0.62	0.59	0.59



Nata 3-1943-M

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	10295.00	10125.97	8479.24	5120.25	2443.95	1506.89	1223.35	671.69	284.09
45.0	10189.29	10212.96	9096.97	6043.54	2966.44	1587.83	1253.63	813.18	298.96
90.0	10277.93	10002.10	8431.89	5199.53	2295.85	1462.30	1089.68	582.72	79.17
135.0	10304.91	10022.47	8766.63	5650.44	2532.04	1510.75	1229.41	653.52	280.79
180.0	10295.00	9841.88	8003.00	4656.12	2155.46	1392.38	1092.15	554.69	56.16
225.0	10189.29	9511.54	7235.51	3724.01	1859.81	1331.26	1034.90	400.98	34.13
270.0	10277.93	9889.78	8105.40	4966.64	2273.83	1473.31	1198.03	579.19	55.33
315.0	10304.91	9899.69	7780.02	4490.95	2121.87	1434.77	1080.54	493.80	38.87
360.0	10295.00	10125.97	8479.24	5120.25	2443.95	1506.89	1223.35	671.69	284.09

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	22.08	16.96	15.64	14.98	14.48	14.20	13.93	13.82	14.15
45.0	24.61	16.68	15.47	14.76	14.37	13.98	13.71	13.60	13.49
90.0	20.15	16.13	15.14	14.53	14.09	13.87	13.65	13.60	13.54
135.0	22.19	16.41	15.36	14.70	14.31	14.04	13.87	13.65	13.65
180.0	18.83	16.46	15.42	14.76	14.31	13.98	13.76	13.65	13.65
225.0	17.78	15.97	15.03	14.42	14.09	13.82	13.71	13.65	13.65
270.0	21.69	16.52	15.36	14.81	14.53	14.37	14.20	14.31	14.20
315.0	19.32	16.41	15.25	14.70	14.31	14.20	14.09	13.87	13.98
360.0	22.08	16.96	15.64	14.98	14.48	14.20	13.93	13.82	14.15

C/γ(°)	90.0
0.0	13.54
45.0	13.38
90.0	13.32
135.0	13.43
180.0	13.43
225.0	13.32
270.0	13.32
315.0	13.38
360.0	13.54