
Nata

LumCAT: 1635-M
Luminaire: BJB 47.319.6060
Report No: NT2017041410
Test No: GC2017041410
LampCAT: CITIZEN CLU022
Lamp flux(lm): 1508.0
Number of Lamps: 1
Length(mm): 46
Phm Type: C

Voltage(V): 37.7000
Current(A): 0.3500
Power (W): 13.1950
PF: 0.0000
Ballast type: DC
Width(mm): 46
Height(mm): 0

Photometric Results

Lumens(lm): 1389.06
Efficiency(%): 92.11%
Lumens(lm)/Power(W): 105.27
Central intensity(cd): 1460.509
Maximum intensity(cd): 1460.509
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=59.7
 [C90/270]Total=59.7
Field angle(10%Imax): [C0/180]Total=89.5
 [C90/270]Total=89.5
Maximum s/h(1/2): C0_180=0.87 C90_270=0.87
Maximum s/h(1/4): C0_180=0.93 C90_270=0.93
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.11%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.219%

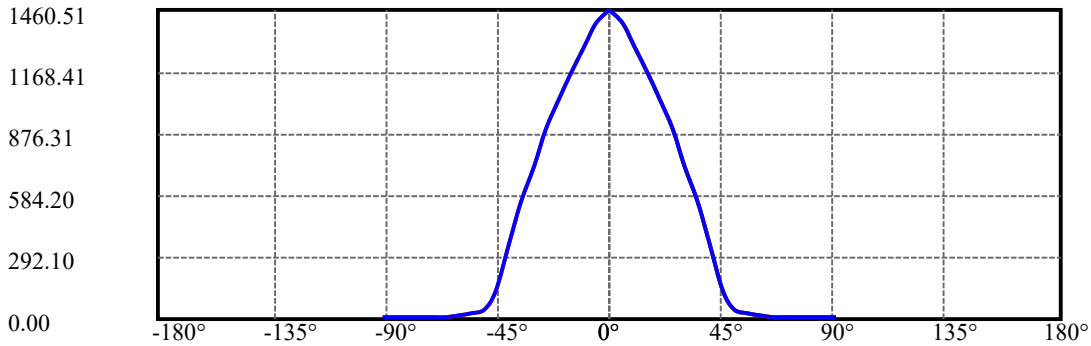
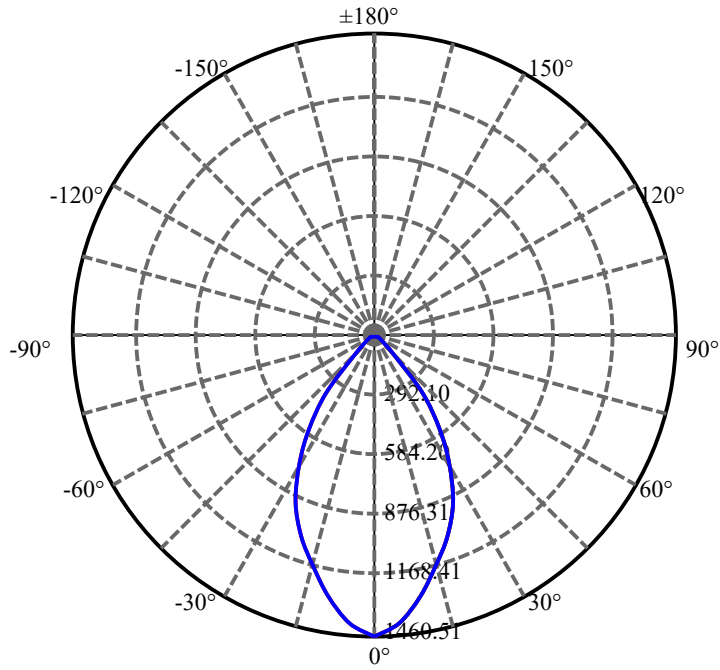
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1460.509	0.000	0	.000%	.000%
5.0	1400.291	34.200	34.2	2.268%	2.462%
10.0	1287.287	96.143	130.343	6.376%	9.384%
15.0	1158.201	145.065	275.408	9.620%	19.827%
20.0	1043.250	181.430	456.838	12.031%	32.888%
25.0	897.846	203.585	660.424	13.500%	47.545%
30.0	724.632	205.326	865.749	13.616%	62.326%
35.0	556.194	188.610	1054.36	12.507%	75.905%
40.0	365.045	153.702	1208.062	10.192%	86.970%
45.0	135.625	92.703	1300.764	6.147%	93.644%
50.0	43.378	36.170	1336.934	2.399%	96.248%
55.0	29.909	15.935	1352.87	1.057%	97.395%
60.0	19.607	11.446	1364.315	.759%	98.219%
65.0	11.218	7.494	1371.809	.497%	98.758%
70.0	7.384	4.710	1376.519	.312%	99.097%
75.0	6.421	3.609	1380.127	.239%	99.357%
80.0	5.444	3.175	1383.302	.211%	99.586%
85.0	5.354	2.934	1386.236	.195%	99.797%
90.0	4.955	2.823	1389.059	.187%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	865.75	57.41%	62.33%
0-40	1208.06	80.11%	86.97%
0-60	1364.32	90.47%	98.22%
0-90	1386.24	91.93%	99.80%
0-120	1386.24	91.93%	99.80%
0-180	1389.06	92.11%	100.00%
60-90	33.37	2.21%	2.40%
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%
0-36.85	1111.25	73.69%	80.00%

ZONAL LUMEN SUMMARY

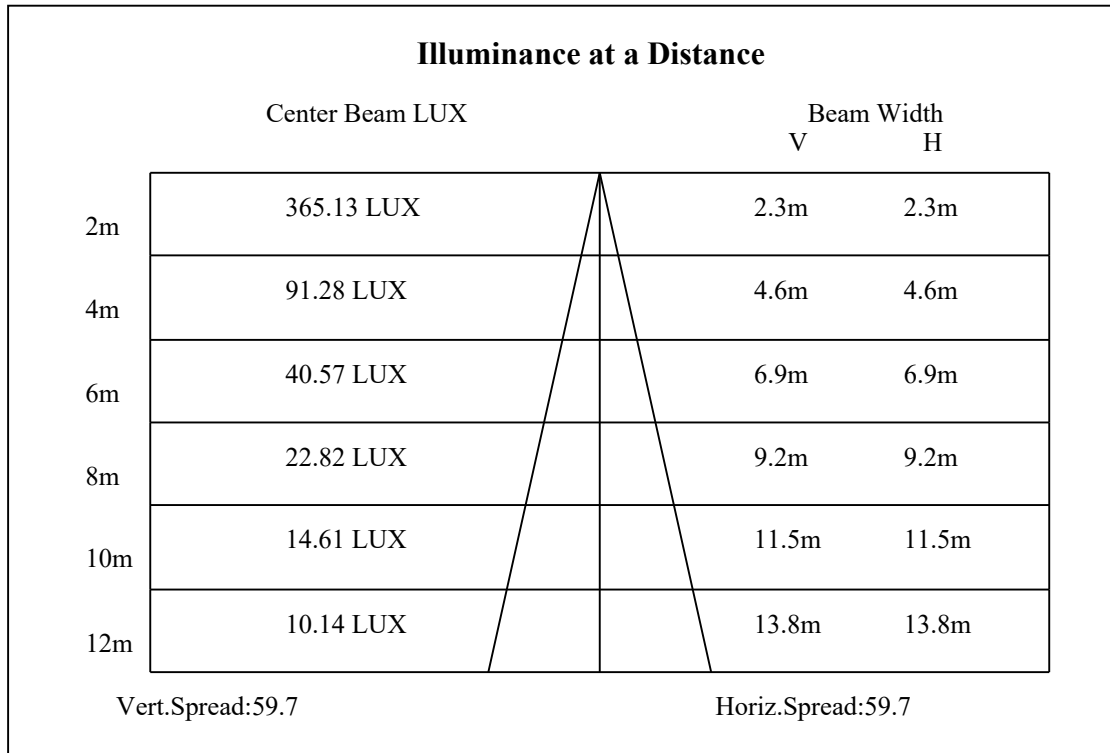
0-10	130.34
10-20	326.50
20-30	408.91
30-40	342.31
40-50	128.87
50-60	27.38
60-70	12.20
70-80	6.78
80-90	2.93
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

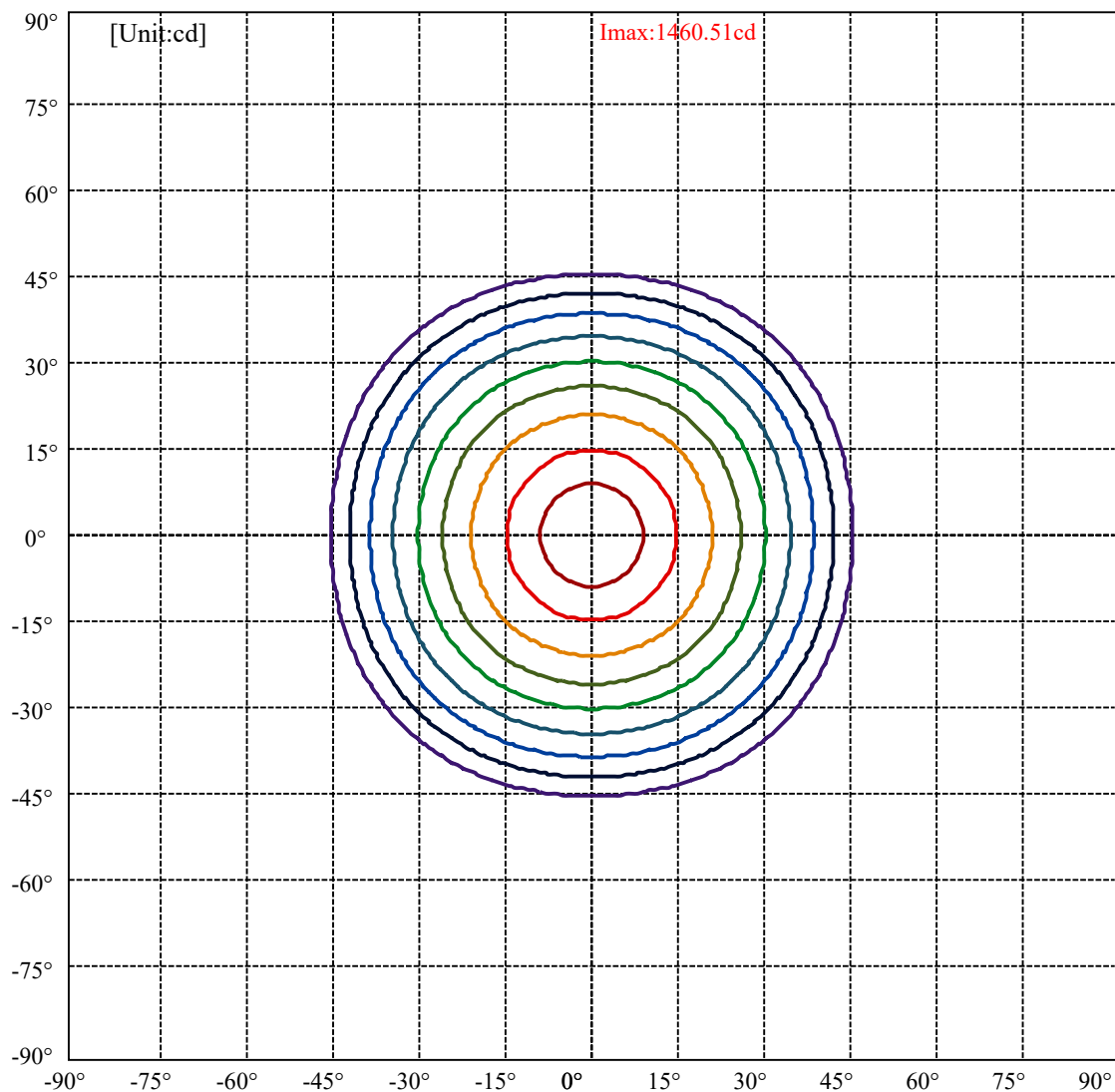


C0(Max): ———
C0/C180: ———
C90/C270: ———

Field angle(10%Imax):C0/180Left:44.8 Right:44.8
:C90/270Left:44.8 Right:44.8

Beam Angle(50%Imax):C0/180Left:29.8 Right:29.8
:C90/270Left:29.8 Right:29.8



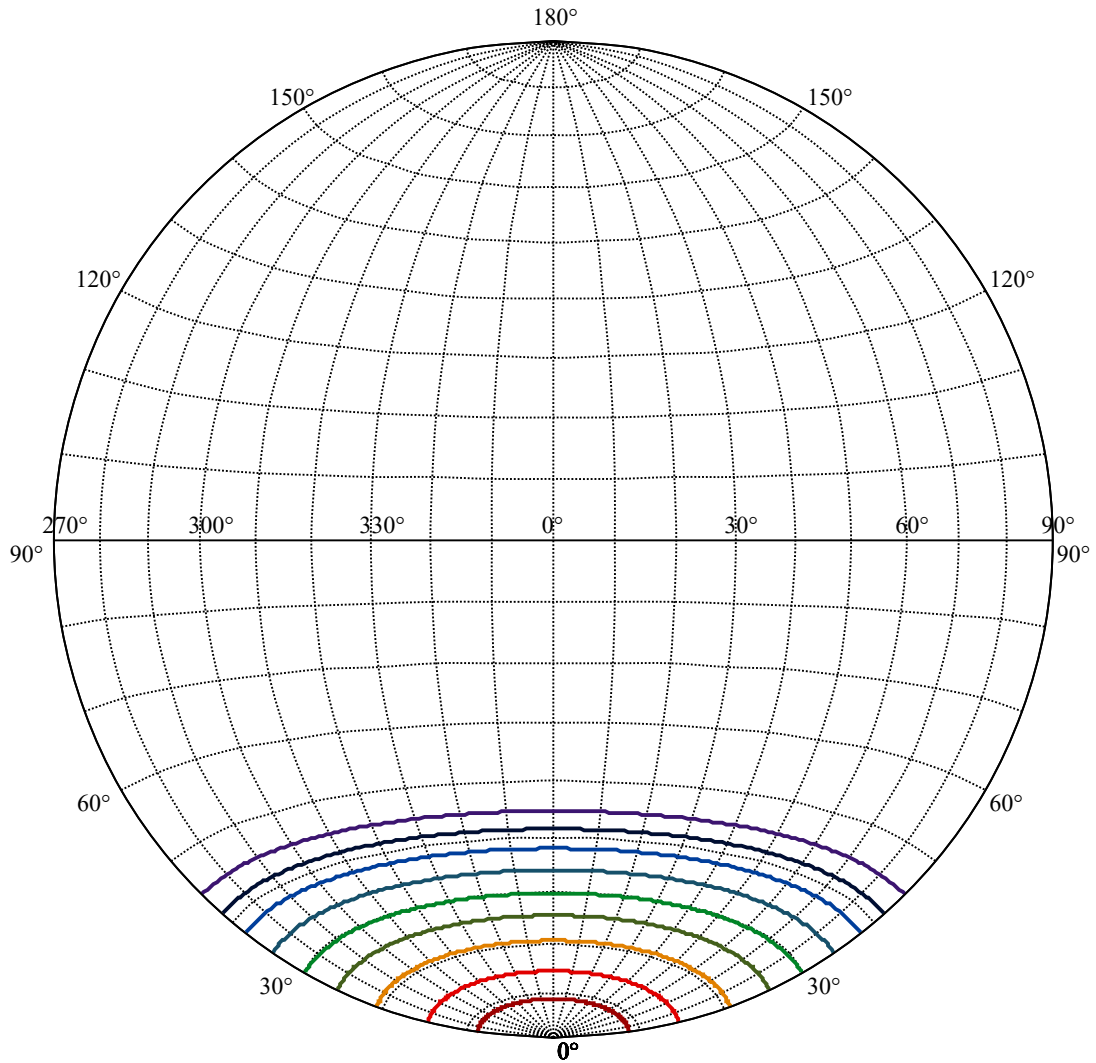


(10%Imax) 146.051	—
(20%Imax) 292.102	—
(30%Imax) 438.153	—
(40%Imax) 584.203	—
(50%Imax) 730.254	—
(60%Imax) 876.305	—
(70%Imax) 1022.36	—
(80%Imax) 1168.41	—
(90%Imax) 1314.46	—

Equipment: gms1980
 Temperature(°C): 25.0

Date: 2017/4/14
 Humidity(%): 60.0%

Operator: NT07
 Distance(m): 7.42



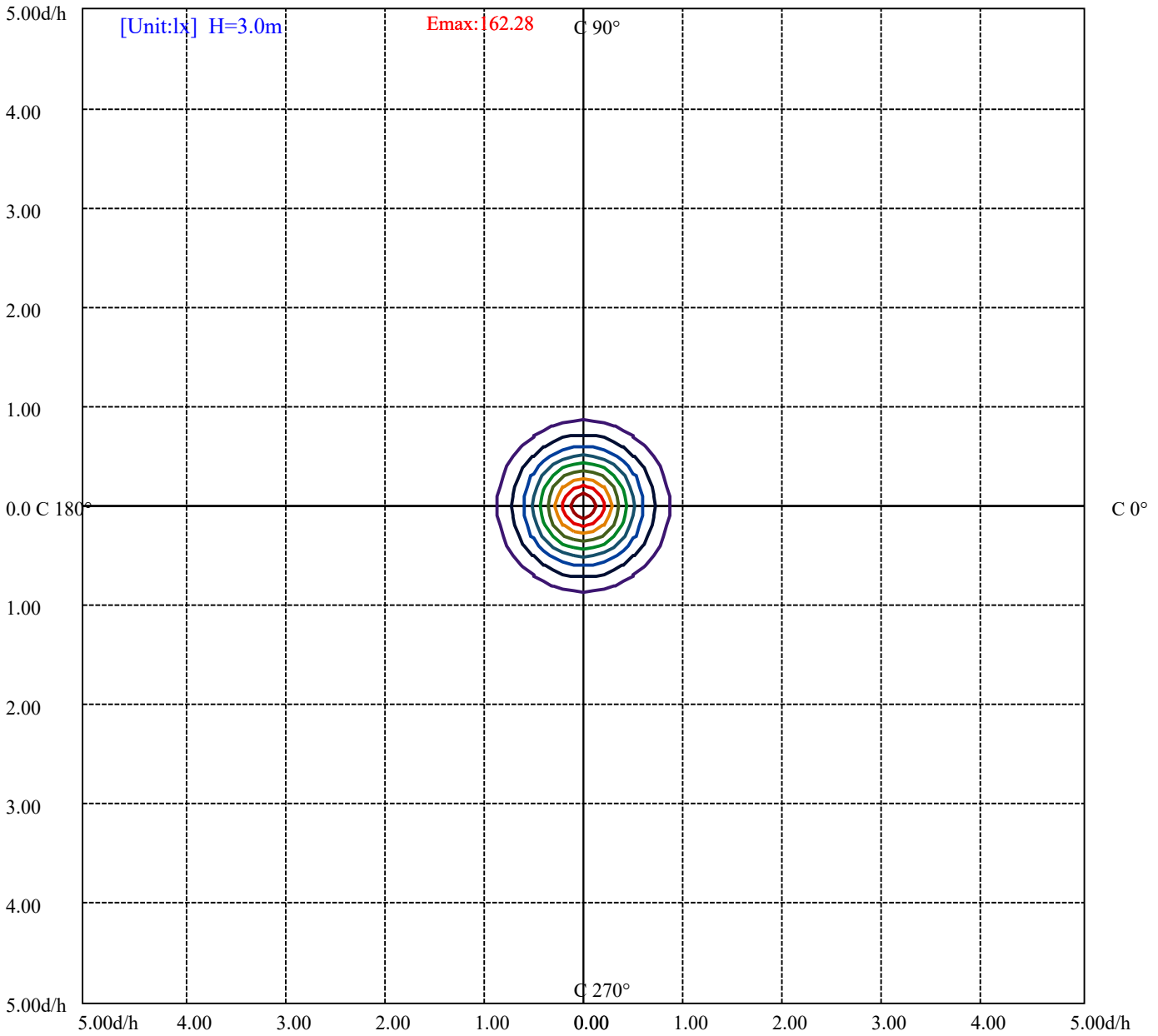
House

[Unit:cd]

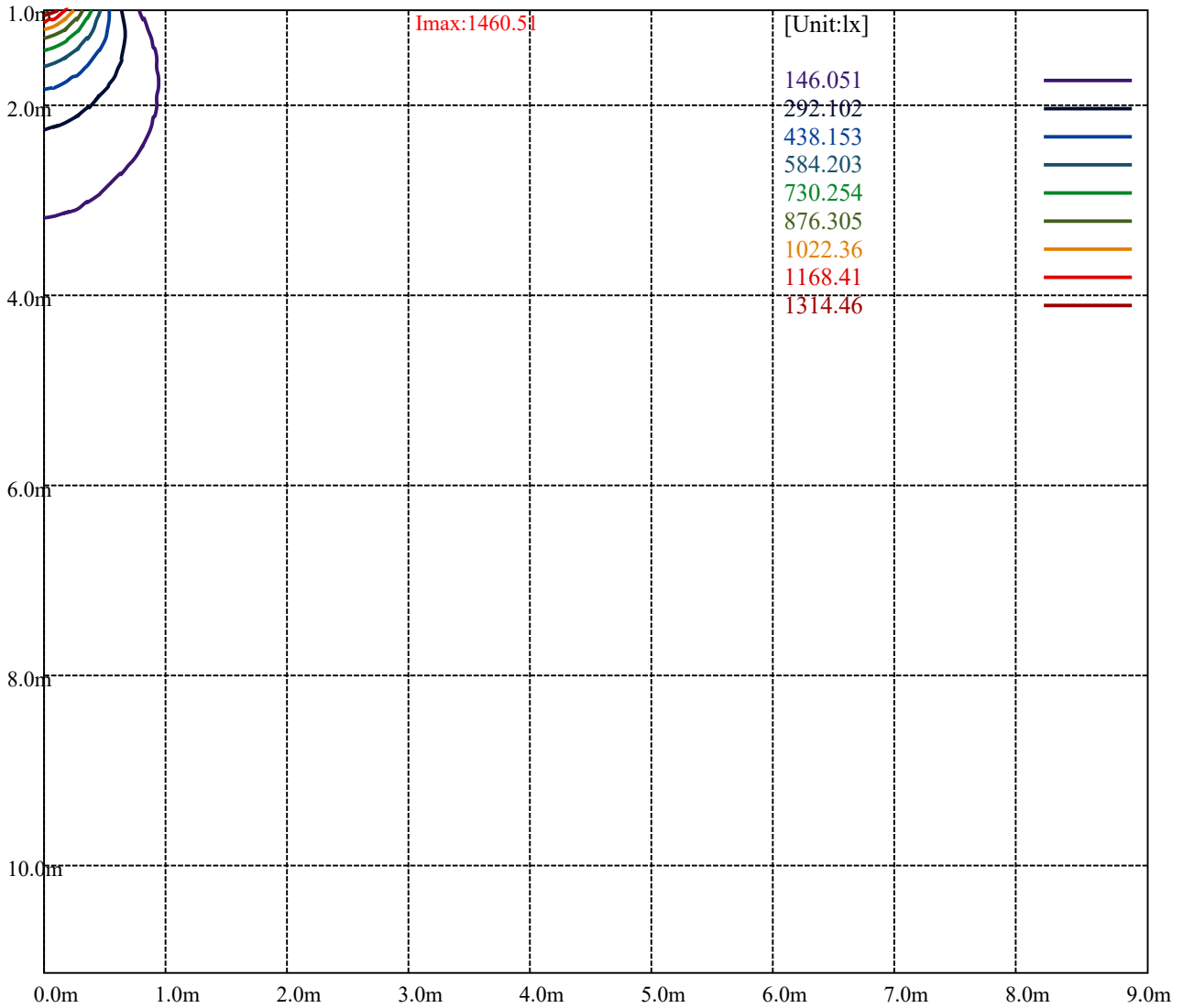
Road

Imax:1460.51

(10%Imax) 146.051	—
(20%Imax) 292.102	—
(30%Imax) 438.153	—
(40%Imax) 584.203	—
(50%Imax) 730.254	—
(60%Imax) 876.305	—
(70%Imax) 1022.36	—
(80%Imax) 1168.41	—
(90%Imax) 1314.46	—



- (10%Emax) 16.22789
- (20%Emax) 32.45567
- (30%Emax) 48.68356
- (40%Emax) 64.91145
- (50%Emax) 81.13922
- (60%Emax) 97.36711
- (70%Emax) 113.5944
- (80%Emax) 129.8233
- (90%Emax) 146.0511



Luminance Table

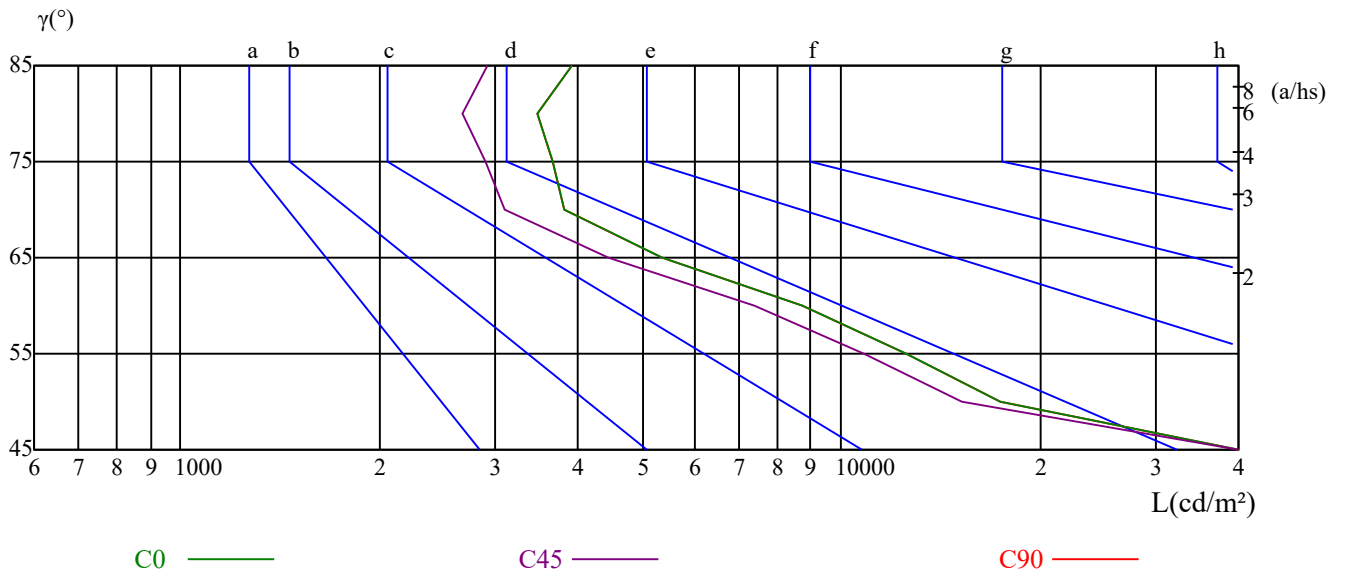
γ	45	50	55	60	65	70	75	80	85
C0	52549	17435	12588	8730	5345	3815	3653	3475	3927
C45	46482	15205	10813	7375	4433	3098	2895	2674	2913
C90	52549	17435	12588	8730	5345	3815	3653	3475	3927

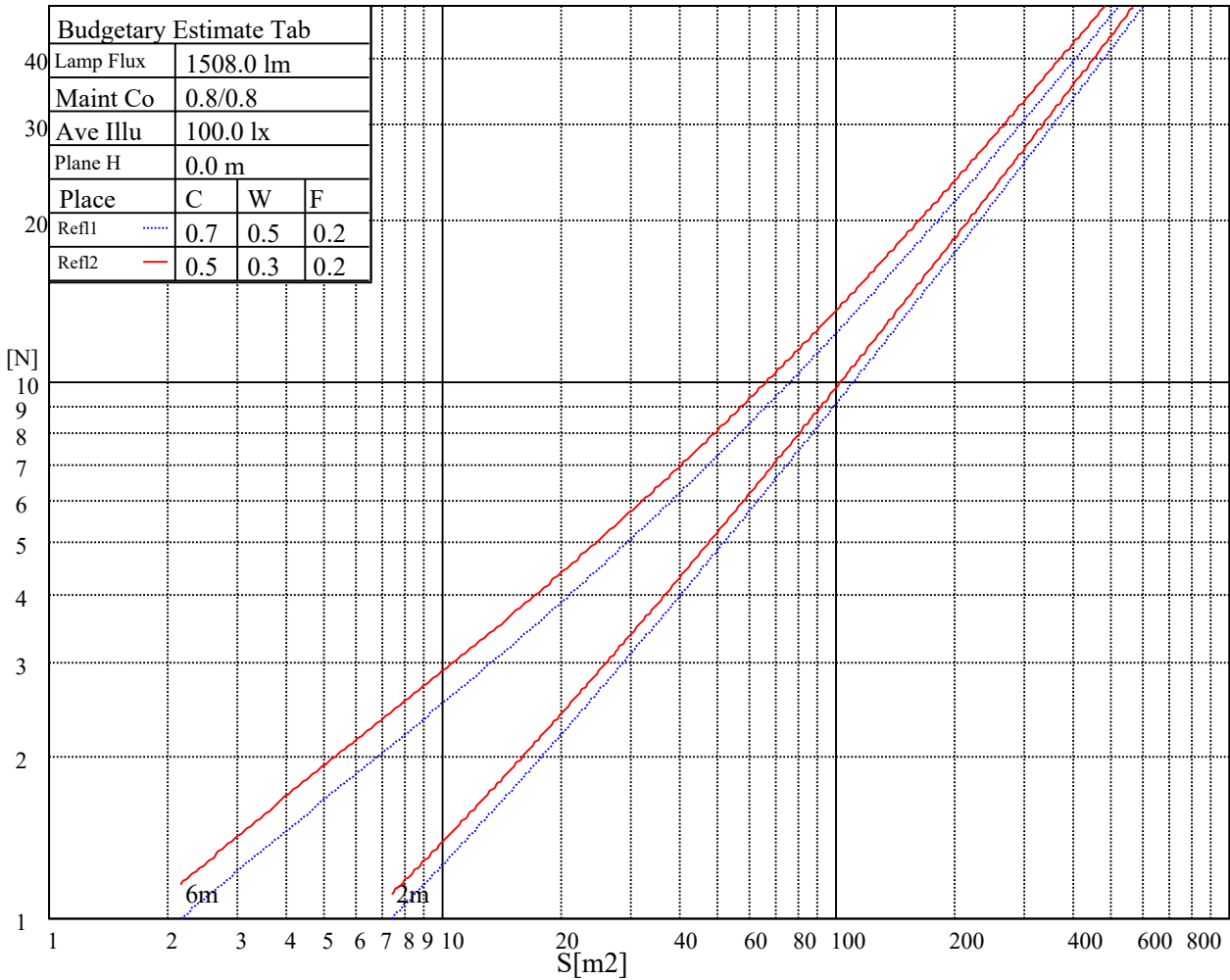
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10617	10617	10617	9923	9923	9923	24573	24573	24573

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	1.07	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	1.01	0.99	0.97	0.99	0.97	0.95	0.96	0.94	0.92	0.92	0.91	0.89	0.89	0.88	0.87	0.85
2	0.94	0.90	0.86	0.92	0.88	0.85	0.89	0.86	0.83	0.86	0.84	0.82	0.84	0.82	0.80	0.78
3	0.87	0.82	0.78	0.85	0.81	0.77	0.83	0.79	0.76	0.81	0.77	0.75	0.79	0.76	0.74	0.72
4	0.80	0.75	0.71	0.79	0.74	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.68	0.66
5	0.75	0.69	0.65	0.74	0.69	0.65	0.72	0.68	0.64	0.71	0.67	0.63	0.69	0.66	0.63	0.61
6	0.70	0.64	0.60	0.69	0.64	0.60	0.68	0.63	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.57
7	0.65	0.59	0.55	0.65	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.54	0.61	0.57	0.54	0.53
8	0.61	0.55	0.51	0.61	0.55	0.51	0.60	0.55	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.49
9	0.57	0.52	0.48	0.57	0.51	0.48	0.56	0.51	0.48	0.55	0.51	0.47	0.54	0.50	0.47	0.46
10	0.54	0.48	0.45	0.54	0.48	0.45	0.53	0.48	0.45	0.52	0.48	0.44	0.51	0.47	0.44	0.43

Nata 1635-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	1461.75	1389.62	1248.68	1143.52	1040.02	899.62	720.14	556.62	366.13
45.0	1459.55	1434.77	1335.12	1207.94	1093.42	949.17	774.64	602.32	432.74
90.0	1465.05	1422.66	1321.90	1190.32	1058.57	912.95	729.55	548.75	376.31
135.0	1455.69	1446.88	1335.67	1201.88	1077.45	933.21	771.89	585.25	402.46
180.0	1461.75	1412.75	1304.84	1178.21	1041.28	895.60	732.80	560.58	366.51
225.0	1459.55	1380.26	1268.50	1092.59	1003.35	846.44	662.22	517.48	304.90
270.0	1465.05	1370.90	1265.20	1155.08	1034.51	886.41	721.24	556.07	356.21
315.0	1455.69	1344.48	1218.40	1096.06	997.40	859.38	684.57	522.49	315.09
360.0	1461.75	1389.62	1248.68	1143.52	1040.02	899.62	720.14	556.62	366.13

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	123.05	44.49	33.47	21.25	11.12	7.16	7.49	5.67	5.29
45.0	213.95	49.39	33.97	25.16	15.42	9.03	6.22	5.29	5.29
90.0	130.98	41.07	29.29	22.35	14.26	9.08	6.33	5.29	5.34
135.0	167.54	42.01	30.23	23.01	13.82	8.75	7.87	6.00	6.06
180.0	139.07	43.33	28.63	16.41	9.41	6.66	6.28	5.56	5.12
225.0	81.04	41.02	24.94	13.16	7.10	5.78	5.34	5.18	5.18
270.0	126.08	43.60	29.62	17.78	9.30	6.28	5.45	5.23	5.23
315.0	103.29	42.12	29.12	17.73	9.30	6.33	6.39	5.34	5.34
360.0	123.05	44.49	33.47	21.25	11.12	7.16	7.49	5.67	5.29

C/γ(°)	90.0
0.0	4.96
45.0	4.96
90.0	4.96
135.0	4.96
180.0	4.96
225.0	4.96
270.0	4.96
315.0	4.96
360.0	4.96