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Nata

Client:

LumCAT: 1408-N

Luminaire: 92.70.064.00

Report No: GC2019091909

Test No: NATA07

LampCAT: TRIDONIC SLE G7 9MM

Lamp flux(lm): 1011.0

Number of Lamps: 1

Length(mm): 39

Phm Type: C

Voltage(V): 220.5000

Current(A): 0.0410

Power (W): 8.2700

PF: 0.8960

Ballast type: AC

Width(mm): 39

Height(mm): 0

Photometric Results

Lumens(lm): 822.94, Efficiency(%): 81.40% , Luminous Efficacy(lm/W): 99.51

Central intensity(cd): 776.073, Maximum intensity(cd): 776.073

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=57.0

[C90/270]Total=57.0

Field angle(10%Imax): [C0/180]Total=101.0

[C90/270]Total=101.0

Maximum s/h(1/2): C0_180=0.84 C90_270=0.84

Maximum s/h(1/4): C0_180=0.90 C90_270=0.90

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 81.40%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 94.793%

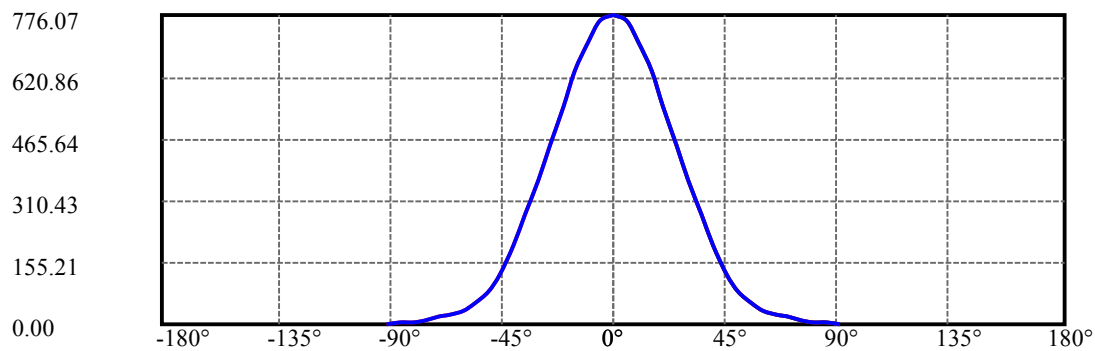
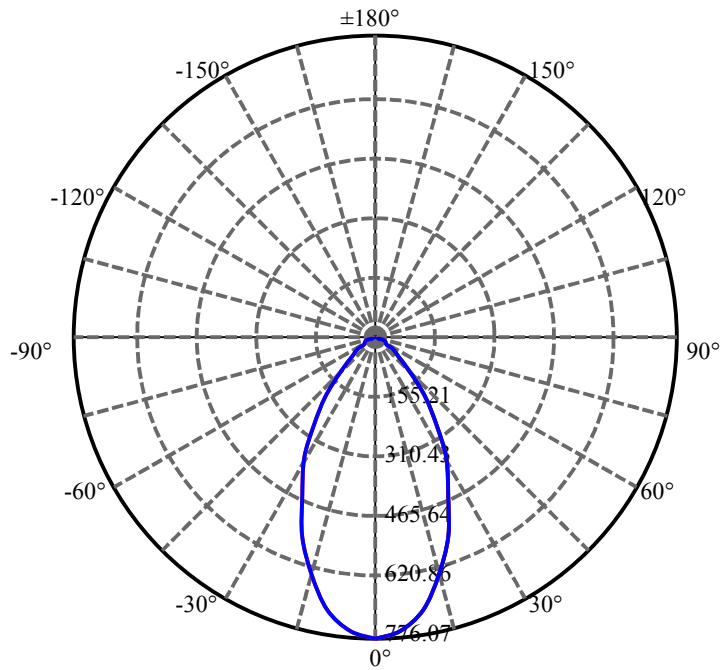
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	776.073	0.000	0	.000%	.000%
5.0	759.339	18.355	18.355	1.816%	2.230%
10.0	710.690	52.588	70.943	5.202%	8.621%
15.0	635.993	79.884	150.827	7.902%	18.328%
20.0	546.498	97.454	248.281	9.639%	30.170%
25.0	449.985	104.513	352.794	10.338%	42.870%
30.0	362.155	102.777	455.571	10.166%	55.359%
35.0	276.929	94.110	549.68	9.309%	66.794%
40.0	197.272	79.117	628.797	7.826%	76.408%
45.0	127.656	60.163	688.96	5.951%	83.719%
50.0	80.510	42.063	731.023	4.161%	88.830%
55.0	51.954	28.802	759.825	2.849%	92.330%
60.0	35.748	20.272	780.097	2.005%	94.793%
65.0	25.255	14.830	794.927	1.467%	96.595%
70.0	17.656	10.865	805.793	1.075%	97.916%
75.0	11.839	7.710	813.502	.763%	98.853%
80.0	7.152	5.081	818.584	.503%	99.470%
85.0	3.538	2.905	821.488	.287%	99.823%
90.0	1.781	1.456	822.945	.144%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	455.57	45.06%	55.36%
0-40	628.80	62.20%	76.41%
0-60	780.10	77.16%	94.79%
0-90	821.49	81.26%	99.82%
0-120	821.49	81.26%	99.82%
0-180	822.94	81.40%	100.00%
60-90	61.66	6.10%	7.49%
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%
0-42.46	658.36	65.12%	80.00%

ZONAL LUMEN SUMMARY

0-10	70.94
10-20	177.34
20-30	207.29
30-40	173.23
40-50	102.23
50-60	49.07
60-70	25.70
70-80	12.79
80-90	2.90
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:

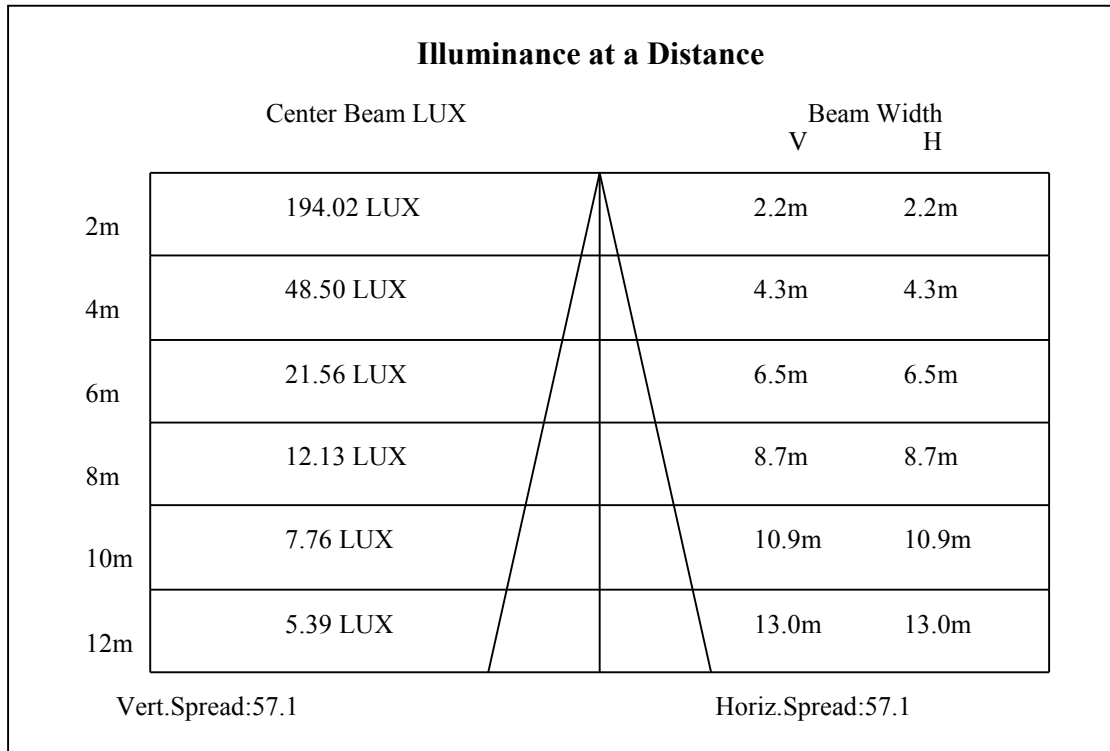
C90/C270:

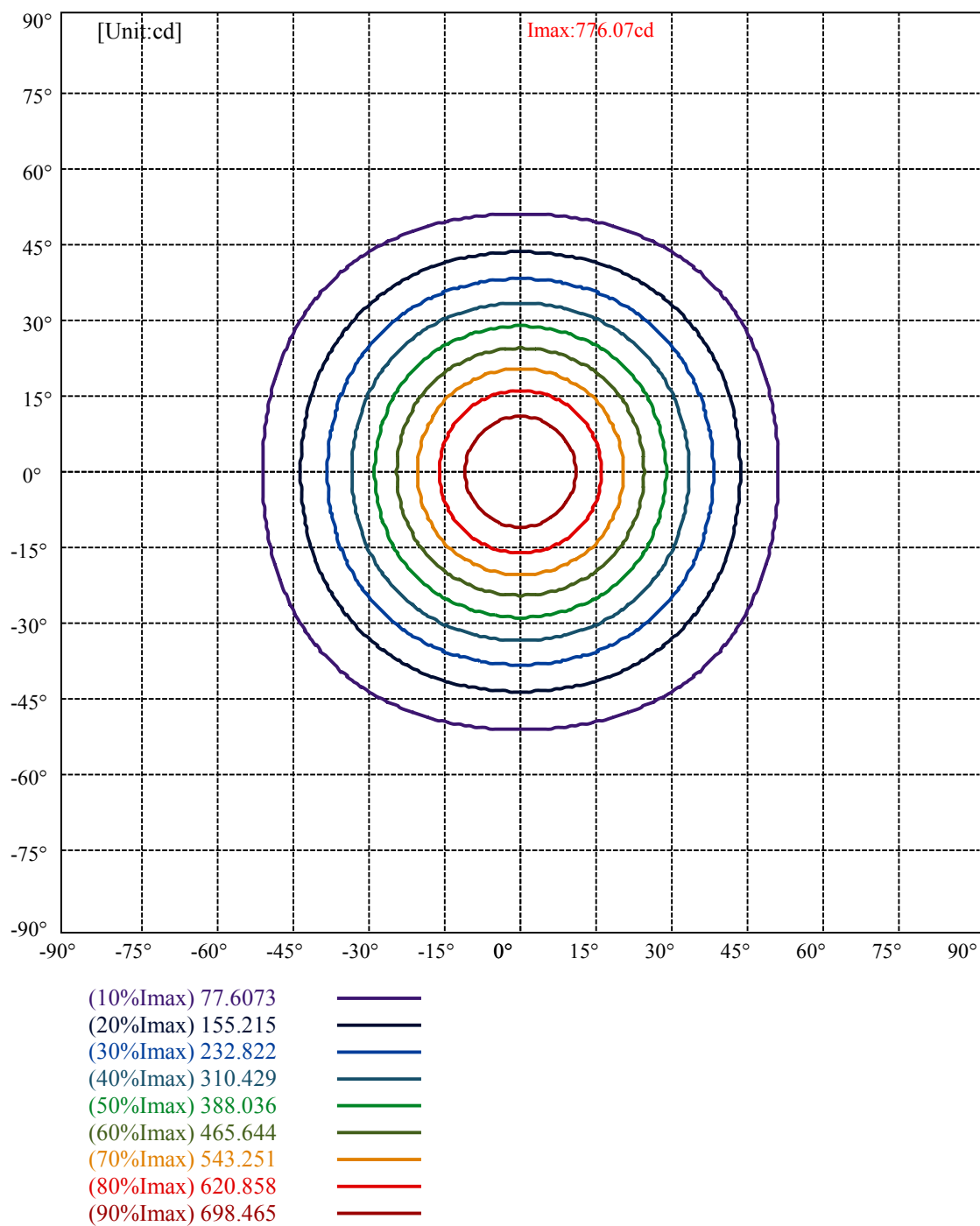
Field angle(10%Imax):C0/180Left:50.5 Right:50.5

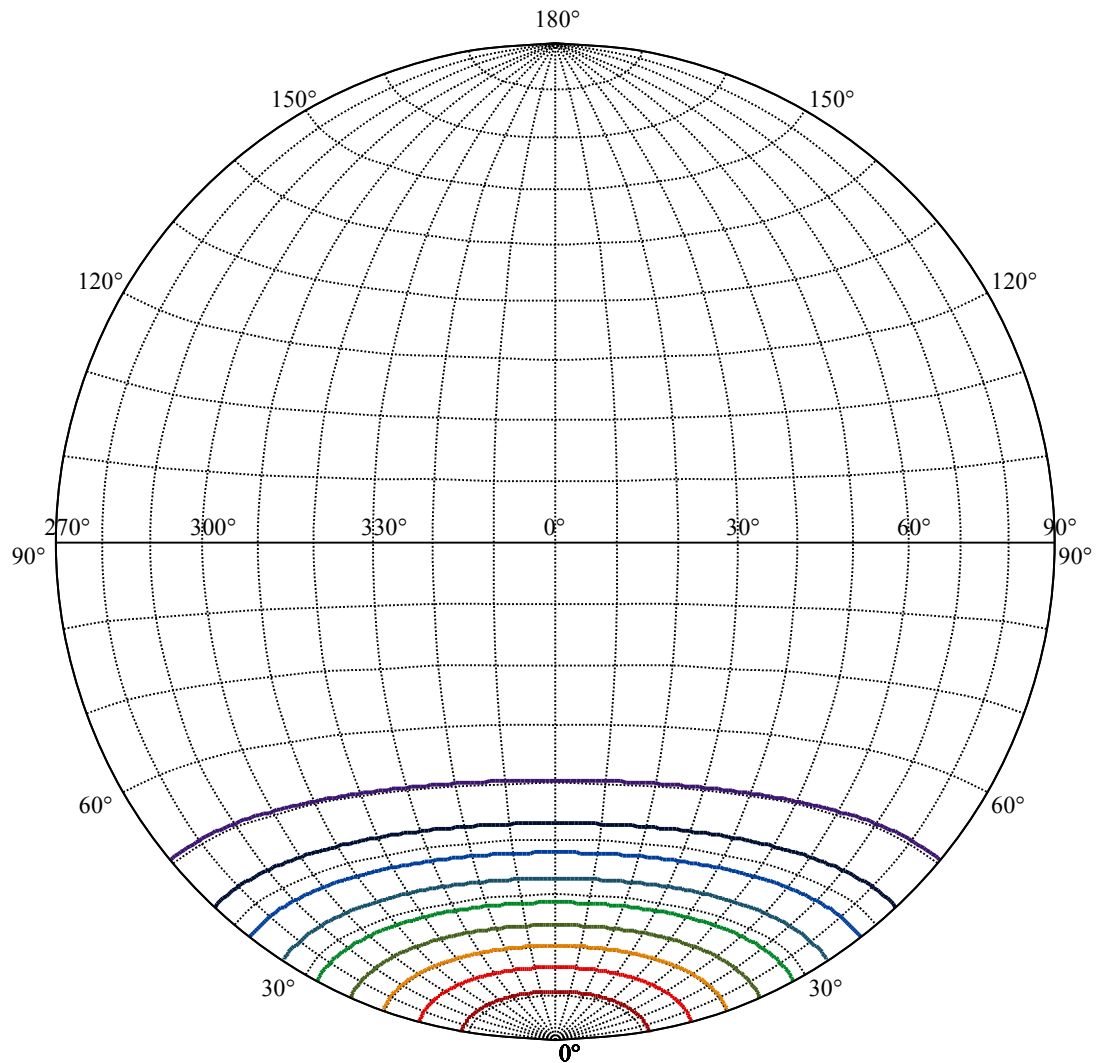
:C90/270Left:50.5 Right:50.5

Beam Angle(50%Imax):C0/180Left:28.5 Right:28.5

:C90/270Left:28.5 Right:28.5







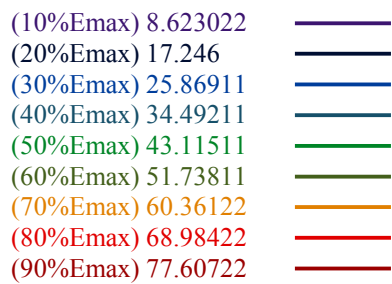
House

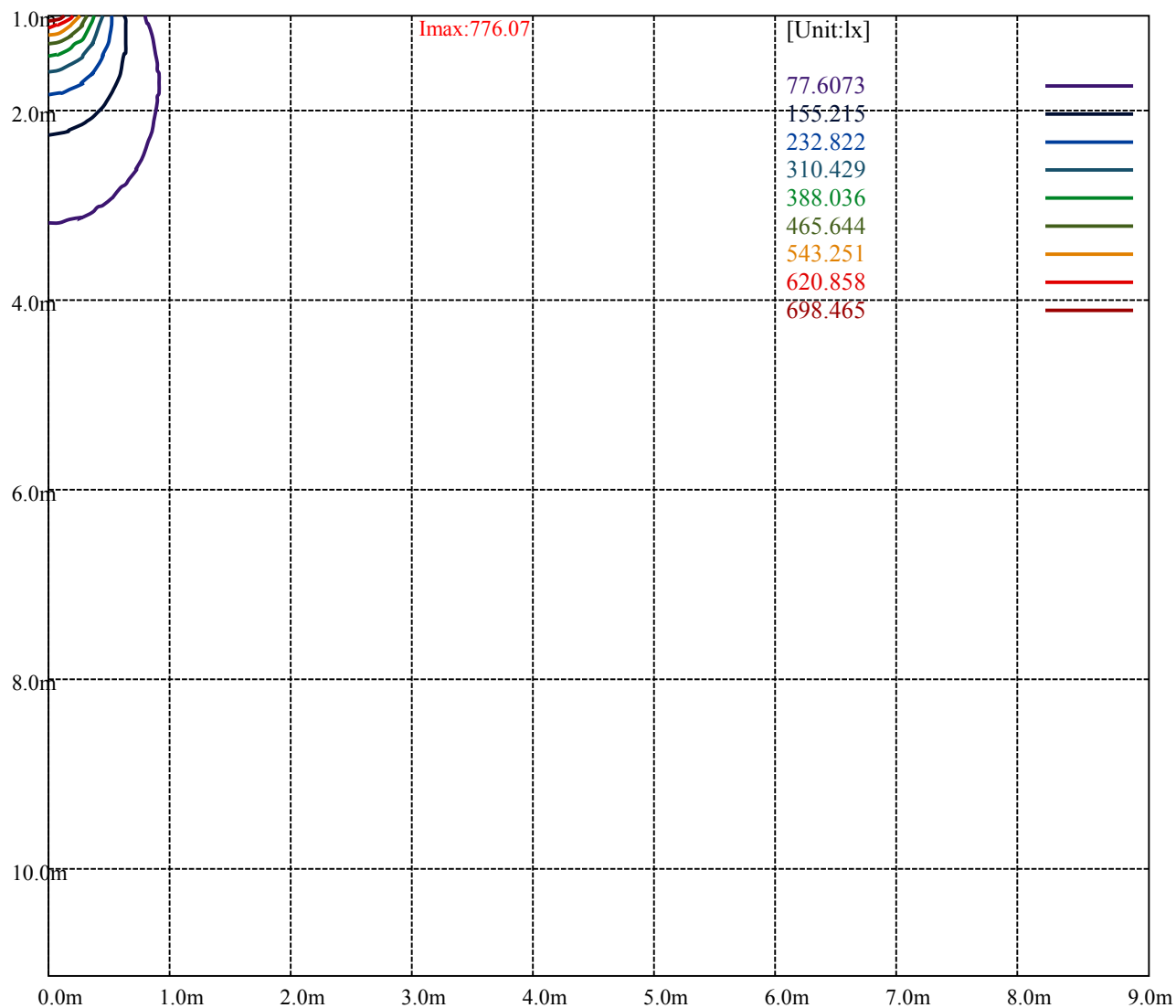
[Unit:cd]

Road

Imax:776.07

(10%Imax)	77.6073	—
(20%Imax)	155.215	—
(30%Imax)	232.822	—
(40%Imax)	310.429	—
(50%Imax)	388.036	—
(60%Imax)	465.644	—
(70%Imax)	543.251	—
(80%Imax)	620.858	—
(90%Imax)	698.465	—





Luminance Table

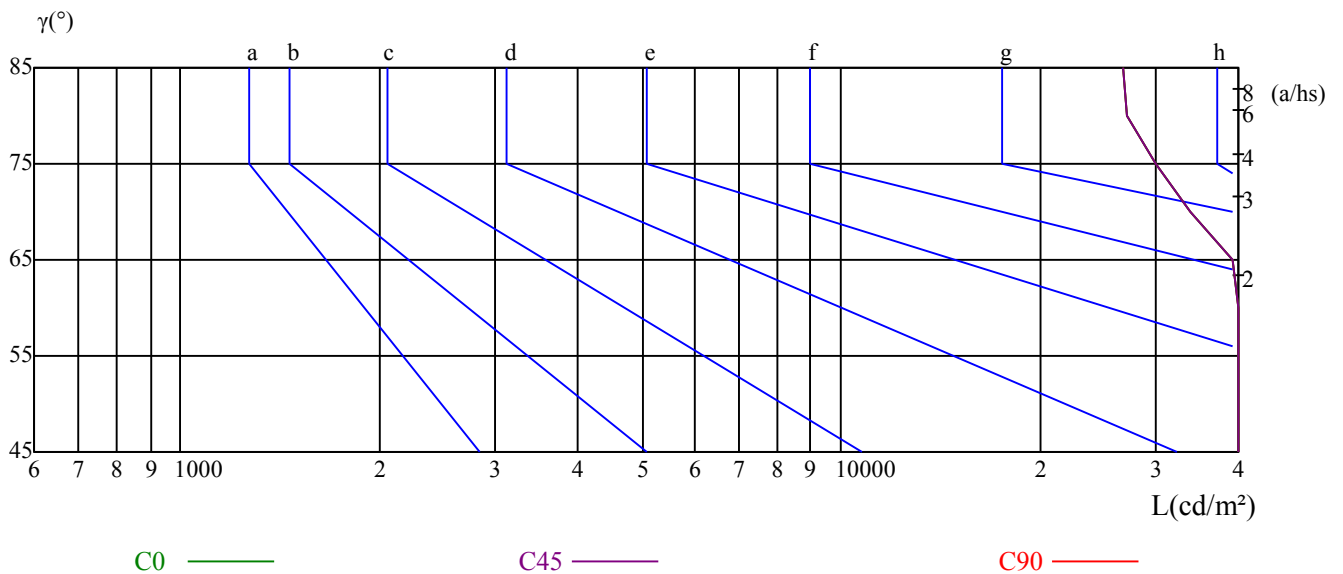
γ	45	50	55	60	65	70	75	80	85
C0	118693	82348	59553	47006	39289	33941	30073	27078	26691
C45	118693	82348	59553	47006	39289	33941	30073	27078	26691
C90	118693	82348	59553	47006	39289	33941	30073	27078	26691

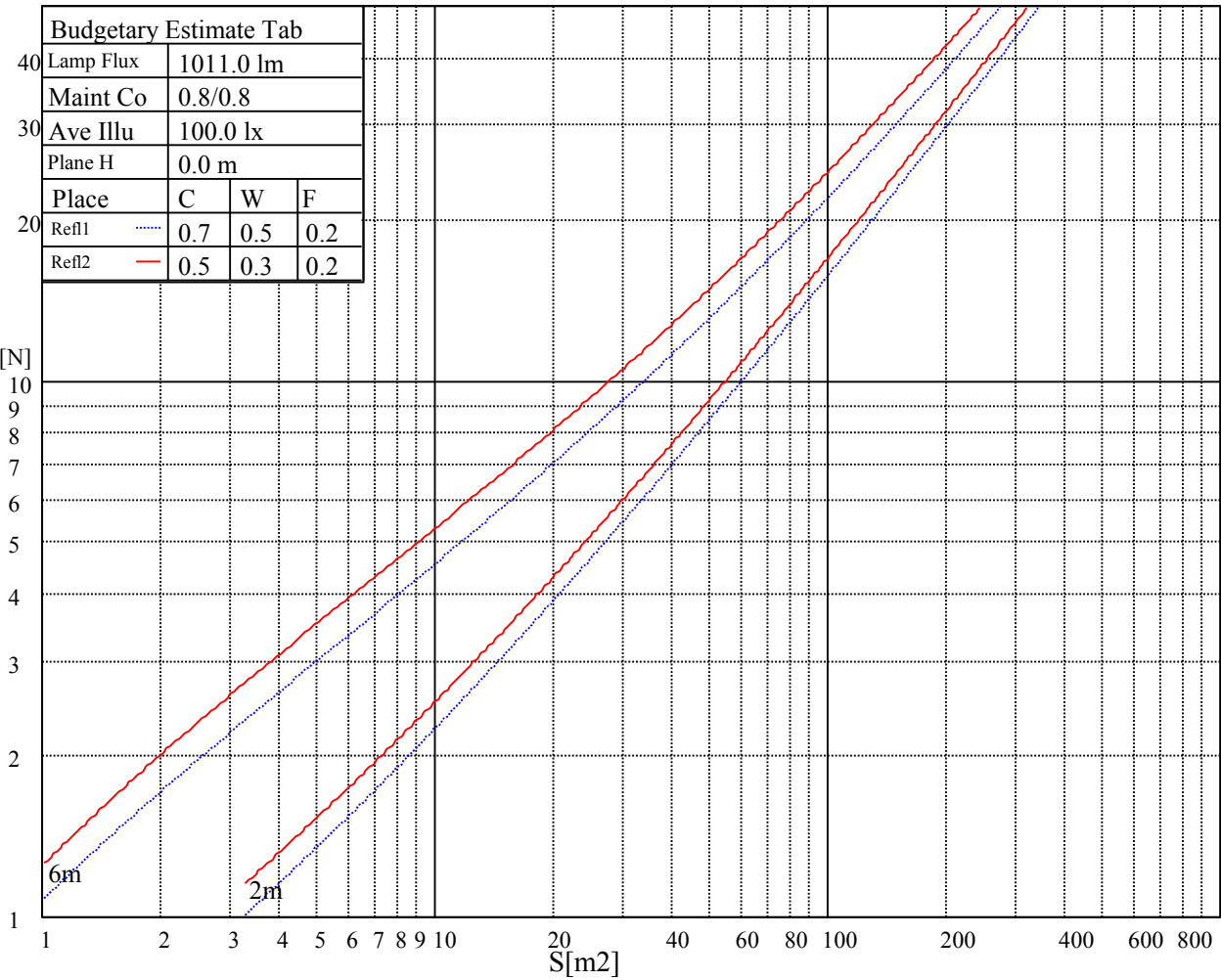
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
39289	39289	39289	30073	30073	30073	26691	26691	26691

Glare Table

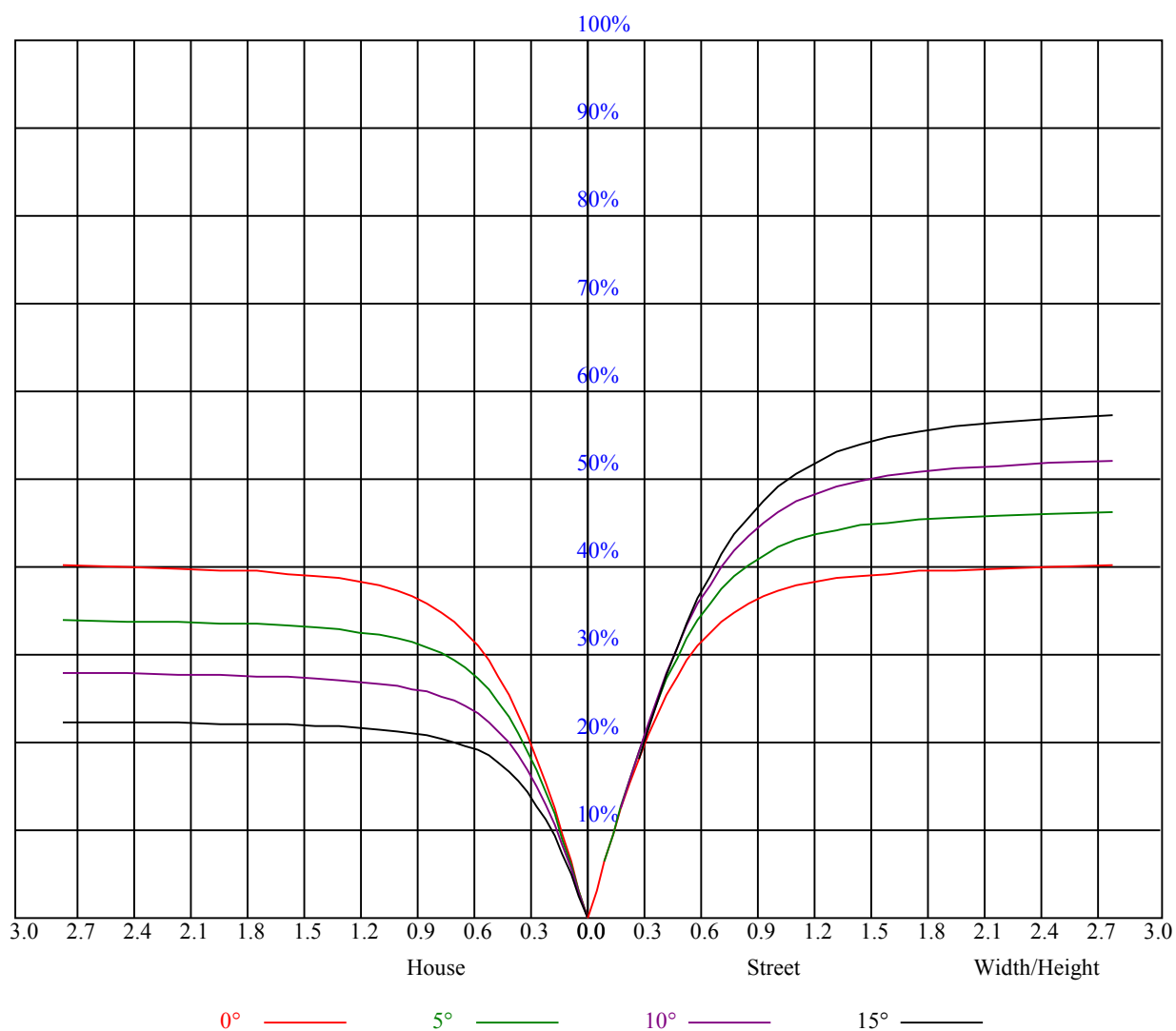
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

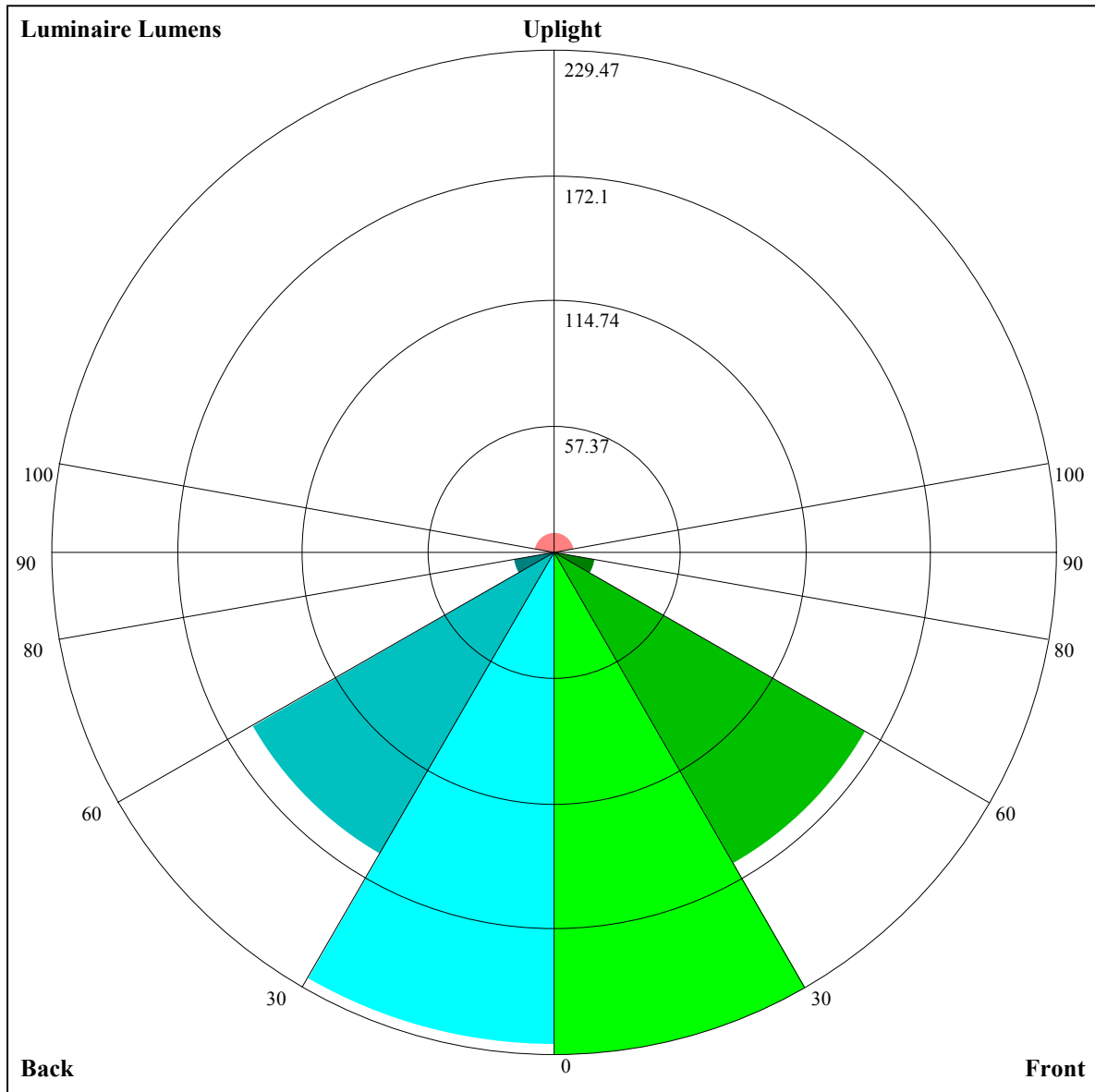
Luminance Limiting Curve





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	0.97	0.97	0.97	0.95	0.95	0.95	0.90	0.90	0.90	0.87	0.87	0.87	0.83	0.83	0.83	0.81
1	0.89	0.86	0.84	0.87	0.85	0.83	0.83	0.82	0.80	0.80	0.79	0.78	0.78	0.76	0.75	0.74
2	0.81	0.77	0.74	0.80	0.76	0.73	0.77	0.74	0.71	0.74	0.72	0.70	0.72	0.70	0.68	0.67
3	0.74	0.69	0.66	0.73	0.69	0.65	0.71	0.67	0.64	0.69	0.66	0.63	0.67	0.64	0.62	0.61
4	0.68	0.63	0.59	0.67	0.62	0.59	0.65	0.61	0.58	0.64	0.60	0.57	0.62	0.59	0.56	0.55
5	0.63	0.58	0.53	0.62	0.57	0.53	0.61	0.56	0.53	0.59	0.55	0.52	0.58	0.55	0.52	0.50
6	0.59	0.53	0.49	0.58	0.53	0.49	0.57	0.52	0.48	0.55	0.51	0.48	0.54	0.51	0.48	0.46
7	0.54	0.49	0.45	0.54	0.49	0.45	0.53	0.48	0.45	0.52	0.47	0.44	0.51	0.47	0.44	0.43
8	0.51	0.45	0.42	0.50	0.45	0.41	0.49	0.45	0.41	0.49	0.44	0.41	0.48	0.44	0.41	0.40
9	0.48	0.42	0.39	0.47	0.42	0.39	0.46	0.42	0.38	0.46	0.41	0.38	0.45	0.41	0.38	0.37
10	0.45	0.39	0.36	0.44	0.39	0.36	0.44	0.39	0.36	0.43	0.39	0.36	0.42	0.38	0.36	0.34





Luminaire Lumens:

FL=229.47,FM=164.53,FH=19.23,FVH=2.21

BL=224.79,BM=159.5,BH=19.15,BVH=2.15

UL=1.94,UH=9.25

BUG Rating:B1-U1-G0

Nata 1408-N

Intensity data(cd)										Appendix Page: 15 Total:15	
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	776.98	760.50	709.60	635.68	544.96	442.13	352.02	274.24	182.46		
45.0	772.99	775.63	744.17	675.31	588.26	500.55	407.65	313.22	230.62		
90.0	778.79	764.77	718.51	645.52	550.07	458.33	361.53	276.29	200.18		
135.0	775.54	769.04	726.26	656.89	575.26	462.83	377.63	291.55	210.62		
180.0	776.98	762.82	710.95	643.85	554.94	456.66	368.35	285.06	212.25		
225.0	772.99	733.50	668.35	573.82	479.21	395.45	310.11	224.96	154.57		
270.0	778.79	756.98	712.85	639.30	541.34	448.86	363.20	277.49	203.06		
315.0	775.54	751.46	694.84	617.58	537.95	435.08	356.75	272.62	184.41		
360.0	776.98	760.50	709.60	635.68	544.96	442.13	352.02	274.24	182.46		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	123.48	78.24	48.96	34.01	24.18	16.43	10.90	6.77	3.39		
45.0	150.67	96.01	61.30	40.19	28.35	20.60	14.06	8.45	4.13		
90.0	119.44	77.45	50.30	34.94	24.04	16.84	10.86	6.45	3.53		
135.0	135.50	85.52	54.06	37.73	27.84	18.79	13.41	8.54	3.99		
180.0	131.97	86.96	56.57	37.82	27.01	18.51	12.44	7.52	3.48		
225.0	100.37	62.88	42.88	31.46	21.21	15.13	9.79	5.52	2.60		
270.0	141.53	83.34	55.03	37.40	25.71	18.24	12.44	7.52	3.76		
315.0	118.28	73.69	46.54	32.44	23.71	16.71	10.81	6.45	3.43		
360.0	123.48	78.24	48.96	34.01	24.18	16.43	10.90	6.77	3.39		
C/γ(°)	90.0										
0.0	1.72										
45.0	2.00										
90.0	1.95										
135.0	2.00										
180.0	1.62										
225.0	1.44										
270.0	1.76										
315.0	1.76										
360.0	1.72										