NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

Client:
LumCAT: 2-1102-E
Luminaire: 99.02.73.171

Report No:	Voltage(V): 34.2900
Test No: GC2019083006	Current(A): 0.3550
LampCAT: XICATO XOB LES 9.8MM	Power (W): 12.1700
Lamp flux(lm): 1120.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 35	Width(mm): 35
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1001.16, Efficiency(%): 89.39% , Luminous Efficacy(lm/W): 82.26
Central intensity(cd): 9485.931, Maximum intensity(cd): 9485.931
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=10.8
[C90/270]Total=10.8
Field angle(10%Imax): [C0/180]Total=23.8
[C90/270]Total=23.8
Maximum s/h(1/2): C0_180=0.19 C90_270=0.19
Maximum s/h(1/4): C0_180=0.19 C90_270=0.19
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.39%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.124%

Equipment: GMS1980	Date: 2019/8/30	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 65.0%	Distance(m): 7.50

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9485.930	0.000	0	.000%	.000%
1.0	9245.320	8.963	8.963	.800%	.895%
2.0	8637.820	25.668	34.63	2.292%	3.459%
3.0	7619.977	38.883	73.513	3.472%	7.343%
4.0	6424.453	47.011	120.525	4.197%	12.038%
5.0	5219.367	50.091	170.616	4.472%	17.042%
6.0	4010.977	48.508	219.124	4.331%	21.887%
7.0	2872.758	42.727	261.851	3.815%	26.155%
8.0	2134.898	35.839	297.69	3.200%	29.734%
9.0	1544.843	29.822	327.512	2.663%	32.713%
10.0	1211.456	24.943	352.455	2.227%	35.205%
11.0	1049.449	22.591	375.047	2.017%	37.461%
12.0	935.311	21.696	396.743	1.937%	39.628%
13.0	838.673	21.053	417.796	1.880%	41.731%
14.0	765.120	20.528	438.324	1.833%	43.782%
15.0	709.270	20.241	458.565	1.807%	45.803%
16.0	663.286	20.112	478.677	1.796%	47.812%
17.0	632.503	20.179	498.856	1.802%	49.828%
18.0	606.642	20.431	519.287	1.824%	51.868%
19.0	584.768	20.728	540.015	1.851%	53.939%
20.0	564.096	21.027	561.042	1.877%	56.039%
21.0	543.860	21.275	582.317	1.900%	58.164%
22.0	522.802	21.435	603.752	1.914%	60.305%
23.0	503.360	21.532	625.284	1.922%	62.456%
24.0	484.130	21.590	646.874	1.928%	64.612%
25.0	465.237	21.587	668.46	1.927%	66.768%
26.0	449.009	21.581	690.041	1.927%	68.924%
27.0	432.429	21.565	711.606	1.925%	71.078%
28.0	417.614	21.521	733.127	1.922%	73.228%
29.0	403.896	21.493	754.62	1.919%	75.374%
30.0	392.400	21.500	776.12	1.920%	77.522%
31.0	381.389	21.533	797.653	1.923%	79.673%
32.0	370.680	21.546	819.199	1.924%	81.825%
33.0	361.884	21.582	840.781	1.927%	83.980%
34.0	350.248	21.551	862.332	1.924%	86.133%
35.0	331.095	21.160	883.492	1.889%	88.247%
36.0	296.058	19.969	903.461	1.783%	90.241%
37.0	254.384	17.952	921.413	1.603%	92.034%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	193.352	14.945	936.358	1.334%	93.527%
39.0	138.038	11.311	947.669	1.010%	94.657%
40.0	89.670	7.942	955.611	.709%	95.450%
41.0	54.148	5.121	960.732	.457%	95.962%
42.0	33.680	3.191	963.923	.285%	96.280%
43.0	25.896	2.207	966.13	.197%	96.501%
44.0	21.066	1.772	967.902	.158%	96.678%
45.0	16.995	1.463	969.365	.131%	96.824%
46.0	13.746	1.202	970.567	.107%	96.944%
47.0	12.023	1.025	971.592	.092%	97.046%
48.0	11.355	0.945	972.537	.084%	97.141%
49.0	10.751	0.908	973.445	.081%	97.231%
50.0	10.294	0.877	974.322	.078%	97.319%
51.0	9.984	0.858	975.18	.077%	97.405%
52.0	9.710	0.845	976.025	.075%	97.489%
53.0	9.492	0.835	976.861	.075%	97.573%
54.0	9.239	0.826	977.686	.074%	97.655%
55.0	8.986	0.814	978.5	.073%	97.736%
56.0	8.761	0.802	979.302	.072%	97.816%
57.0	8.550	0.791	980.093	.071%	97.896%
58.0	8.283	0.778	980.872	.070%	97.973%
59.0	8.051	0.764	981.635	.068%	98.050%
60.0	7.805	0.749	982.384	.067%	98.124%
61.0	7.530	0.732	983.116	.065%	98.197%
62.0	7.327	0.716	983.832	.064%	98.269%
63.0	7.109	0.702	984.534	.063%	98.339%
64.0	6.912	0.688	985.222	.061%	98.408%
65.0	6.729	0.675	985.897	.060%	98.475%
66.0	6.595	0.665	986.562	.059%	98.542%
67.0	6.490	0.658	987.22	.059%	98.607%
68.0	6.448	0.655	987.875	.059%	98.673%
69.0	6.441	0.657	988.533	.059%	98.739%
70.0	6.398	0.659	989.192	.059%	98.804%
71.0	6.363	0.660	989.852	.059%	98.870%
72.0	6.321	0.660	990.511	.059%	98.936%
73.0	6.244	0.657	991.168	.059%	99.002%
74.0	6.166	0.652	991.821	.058%	99.067%
75.0	6.103	0.648	992.469	.058%	99.132%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.998	0.642	993.111	.057%	99.196%
77.0	5.899	0.634	993.746	.057%	99.259%
78.0	5.815	0.627	994.373	.056%	99.322%
79.0	5.723	0.620	994.993	.055%	99.384%
80.0	5.639	0.613	995.605	.055%	99.445%
81.0	5.498	0.602	996.208	.054%	99.505%
82.0	5.330	0.587	996.795	.052%	99.564%
83.0	5.245	0.575	997.37	.051%	99.621%
84.0	5.189	0.568	997.938	.051%	99.678%
85.0	5.147	0.564	998.502	.050%	99.734%
86.0	5.126	0.562	999.064	.050%	99.790%
87.0	5.013	0.555	999.619	.050%	99.846%
88.0	4.760	0.535	1000.154	.048%	99.899%
89.0	4.563	0.511	1000.665	.046%	99.950%
90.0	4.507	0.497	1001.162	.044%	100.000%

Zonal flux distribution table

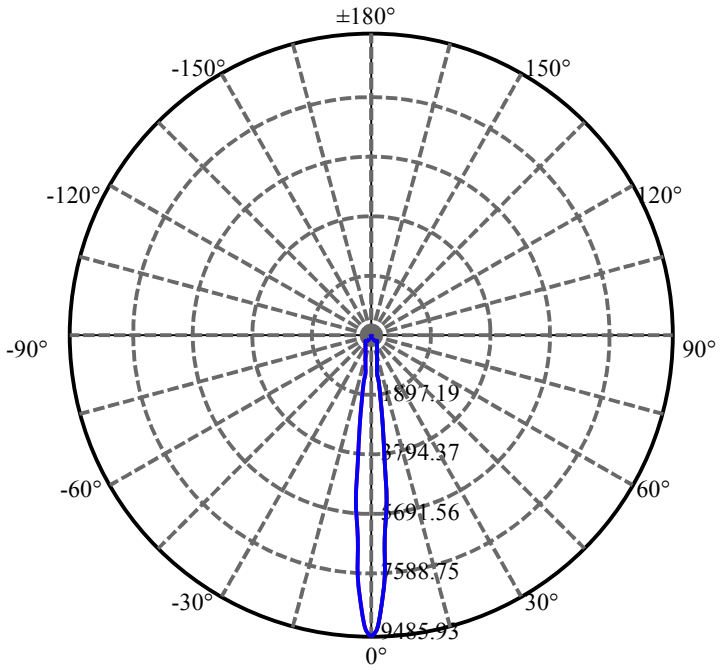
ZONAL LUMEN SUMMARY

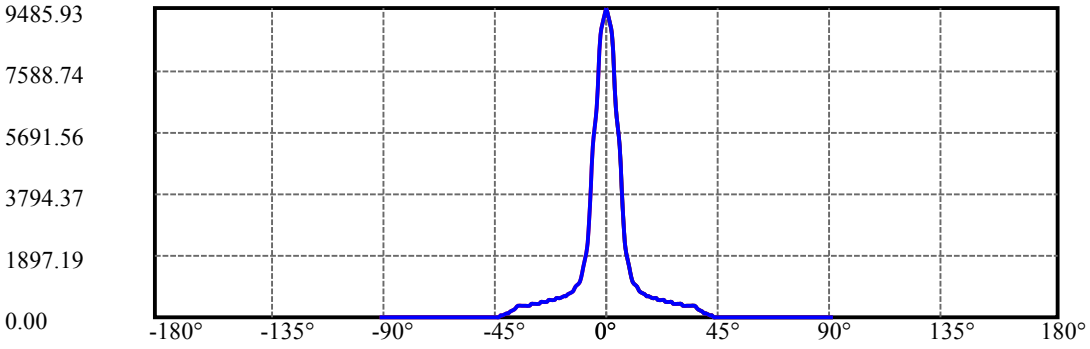
Zone	Lumens	%Lamp	%Fixt
0-30	776.12	69.30%	77.52%
0-40	955.61	85.32%	95.45%
0-60	982.38	87.71%	98.12%
0-90	1000.67	89.35%	99.95%
0-120	1000.67	89.35%	99.95%
0-180	1001.16	89.39%	100.00%
60-90	19.03	1.70%	1.90%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-31.15	800.93	71.51%	80.00%

ZONAL LUMEN SUMMARY

0-10	352.46
10-20	208.59
20-30	215.08
30-40	179.49
40-50	18.71
50-60	8.06
60-70	6.81
70-80	6.41
80-90	5.06
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

Light Distribution Curve [Unit:cd]





C0(Max):

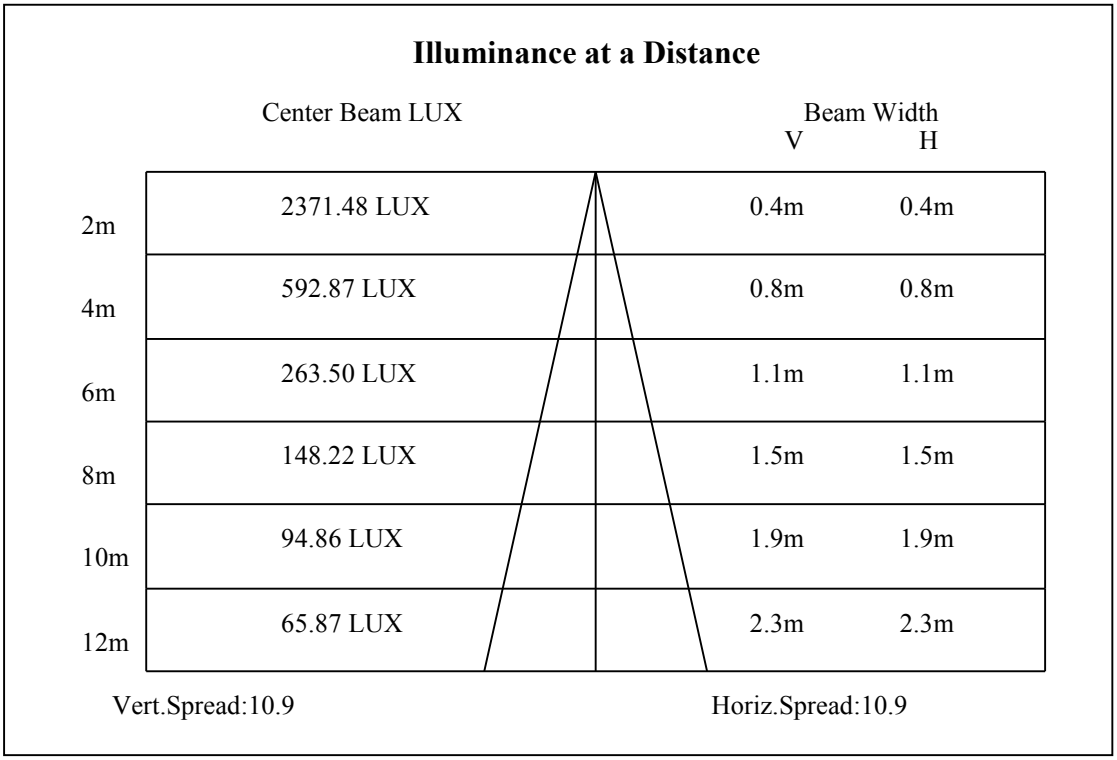
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:11.9 Right:11.9
:C90/270Left:11.9 Right:11.9

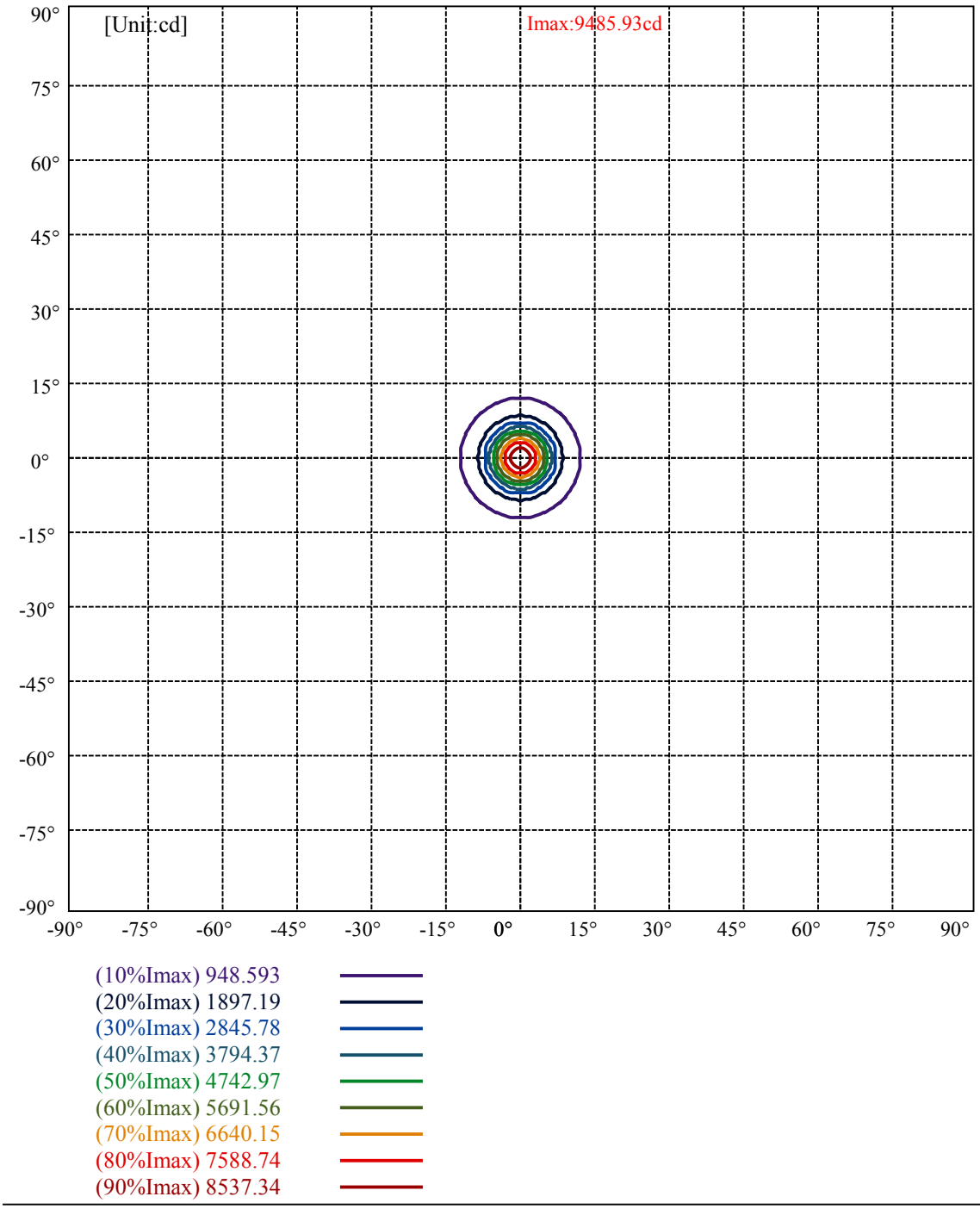
Beam Angle(50%Imax):C0/180Left:5.4 Right:5.4
:C90/270Left:5.4 Right:5.4

Lux distance Curve



Equipment: GMS1980 Date: 2019/8/30 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

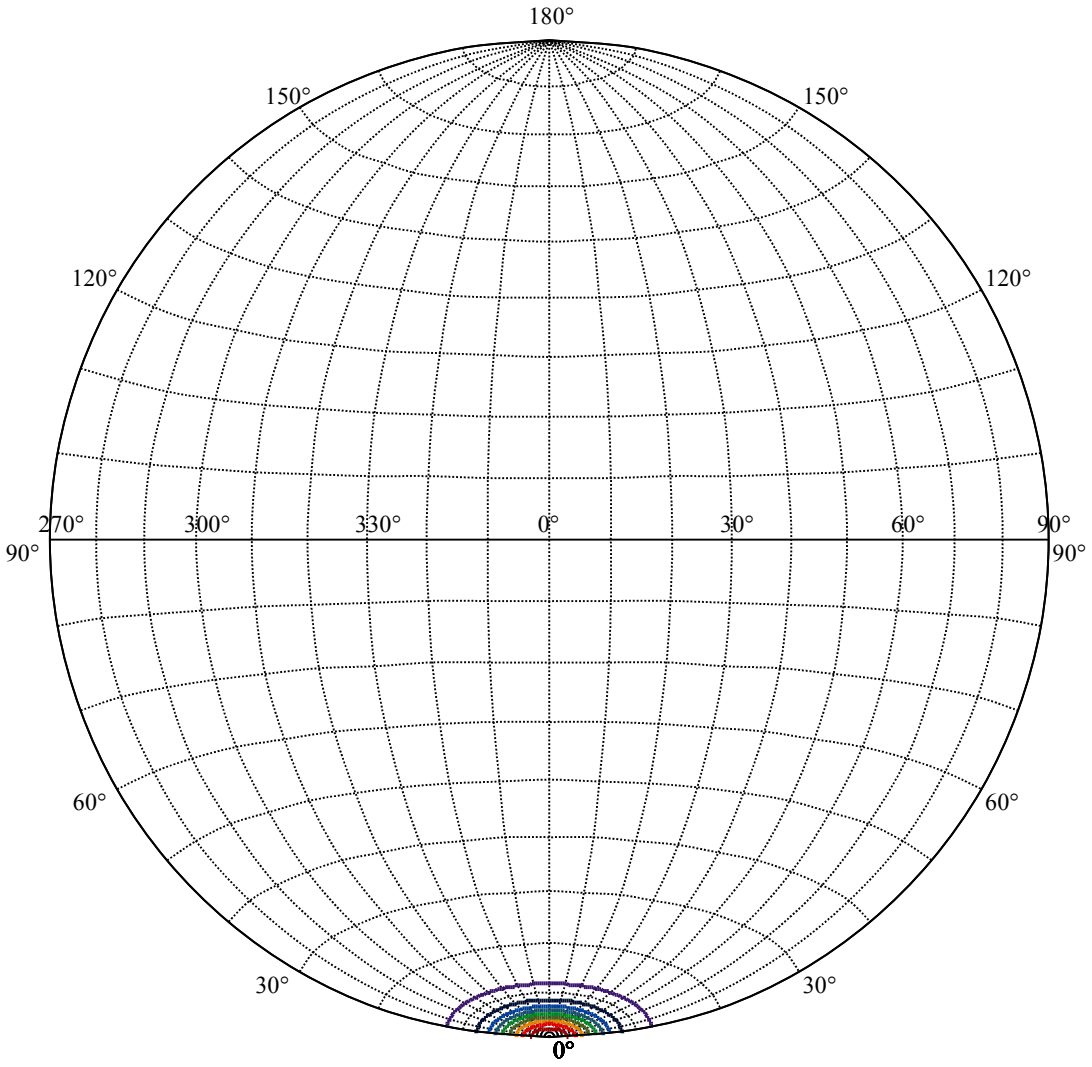


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2019/8/30
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:9485.93

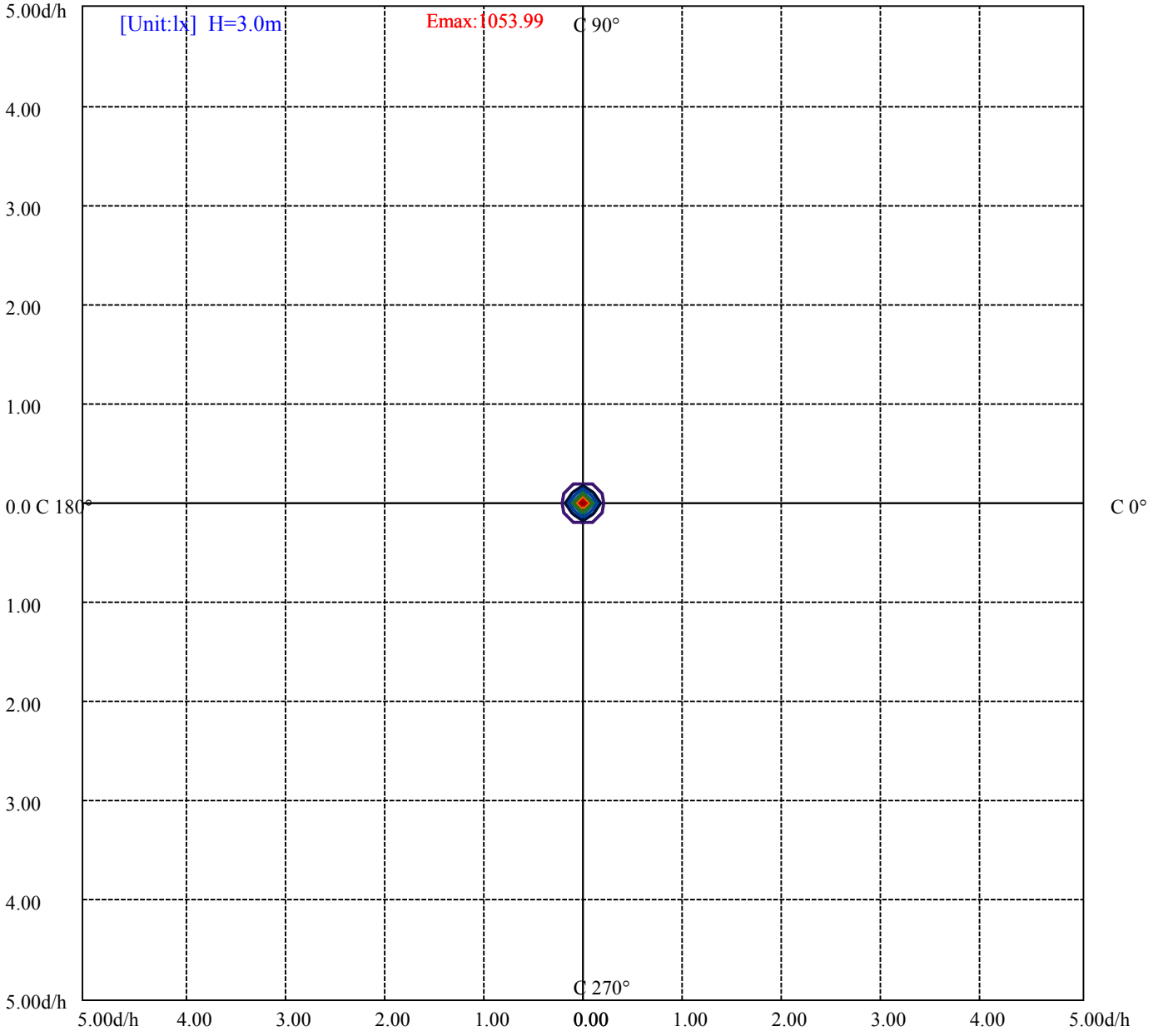
(10%Imax) 948.593
(20%Imax) 1897.19
(30%Imax) 2845.78
(40%Imax) 3794.37
(50%Imax) 4742.97
(60%Imax) 5691.56
(70%Imax) 6640.15
(80%Imax) 7588.74
(90%Imax) 8537.34

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2019/8/30
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

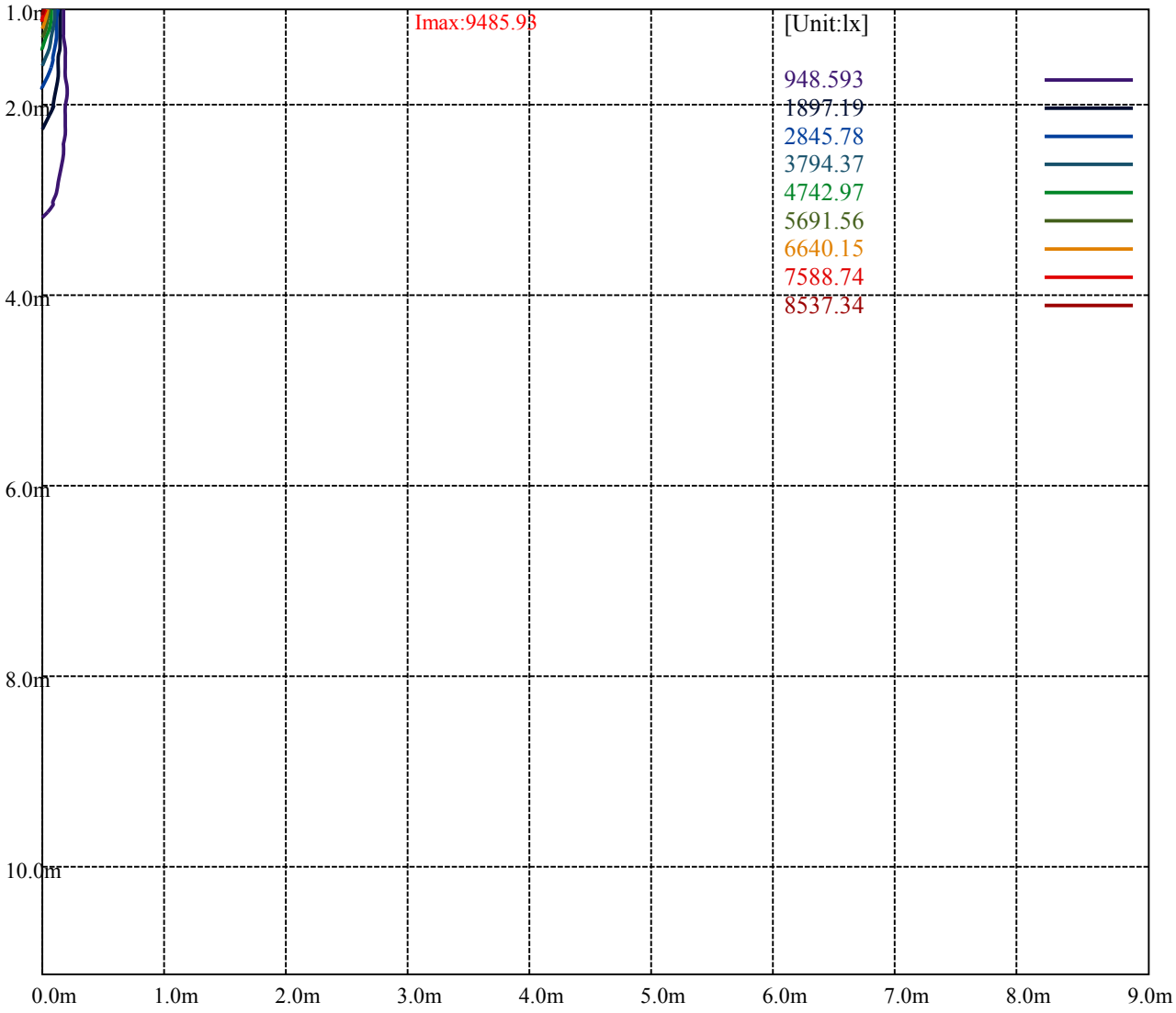
ISO illuminance diagram



(10%Emax) 105.3988
(20%Emax) 210.7978
(30%Emax) 316.1967
(40%Emax) 421.5956
(50%Emax) 526.9944
(60%Emax) 632.3933
(70%Emax) 737.7922
(80%Emax) 843.1912
(90%Emax) 948.5889

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2019/8/30
Humidity(%): 65.0%
Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2019/8/30
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

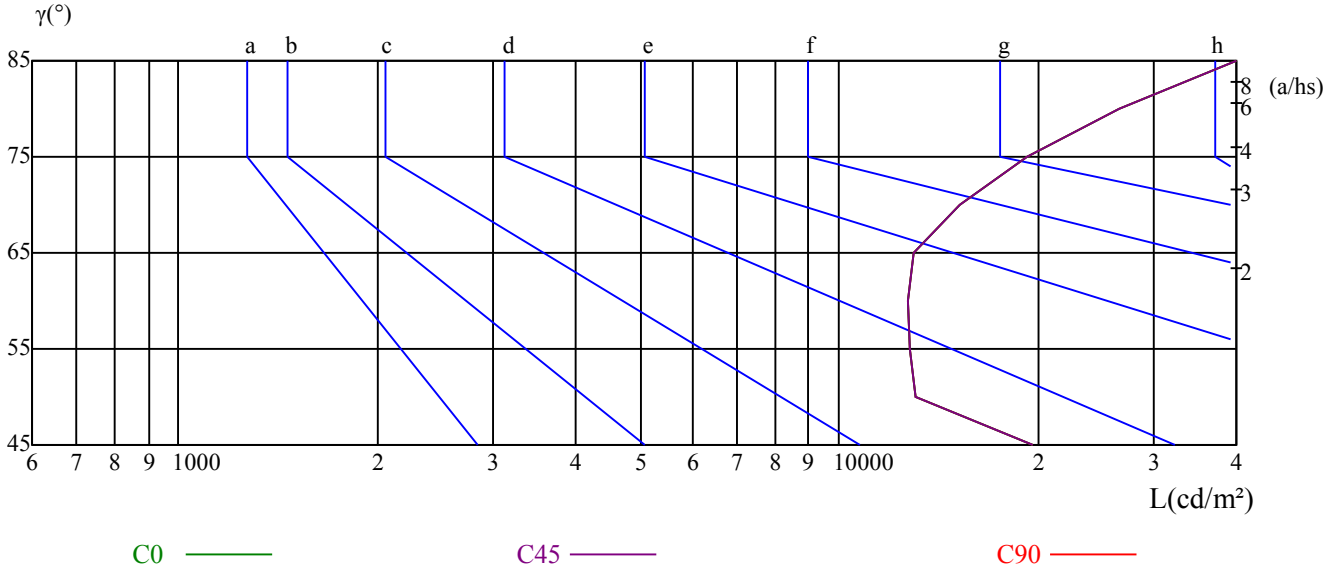
γ	45	50	55	60	65	70	75	80	85
C0	19620	13073	12789	12742	12998	15272	19250	26509	48207
C45	19620	13073	12789	12742	12998	15272	19250	26509	48207
C90	19620	13073	12789	12742	12998	15272	19250	26509	48207

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
12998	12998	12998	19250	19250	19250	48207	48207	48207

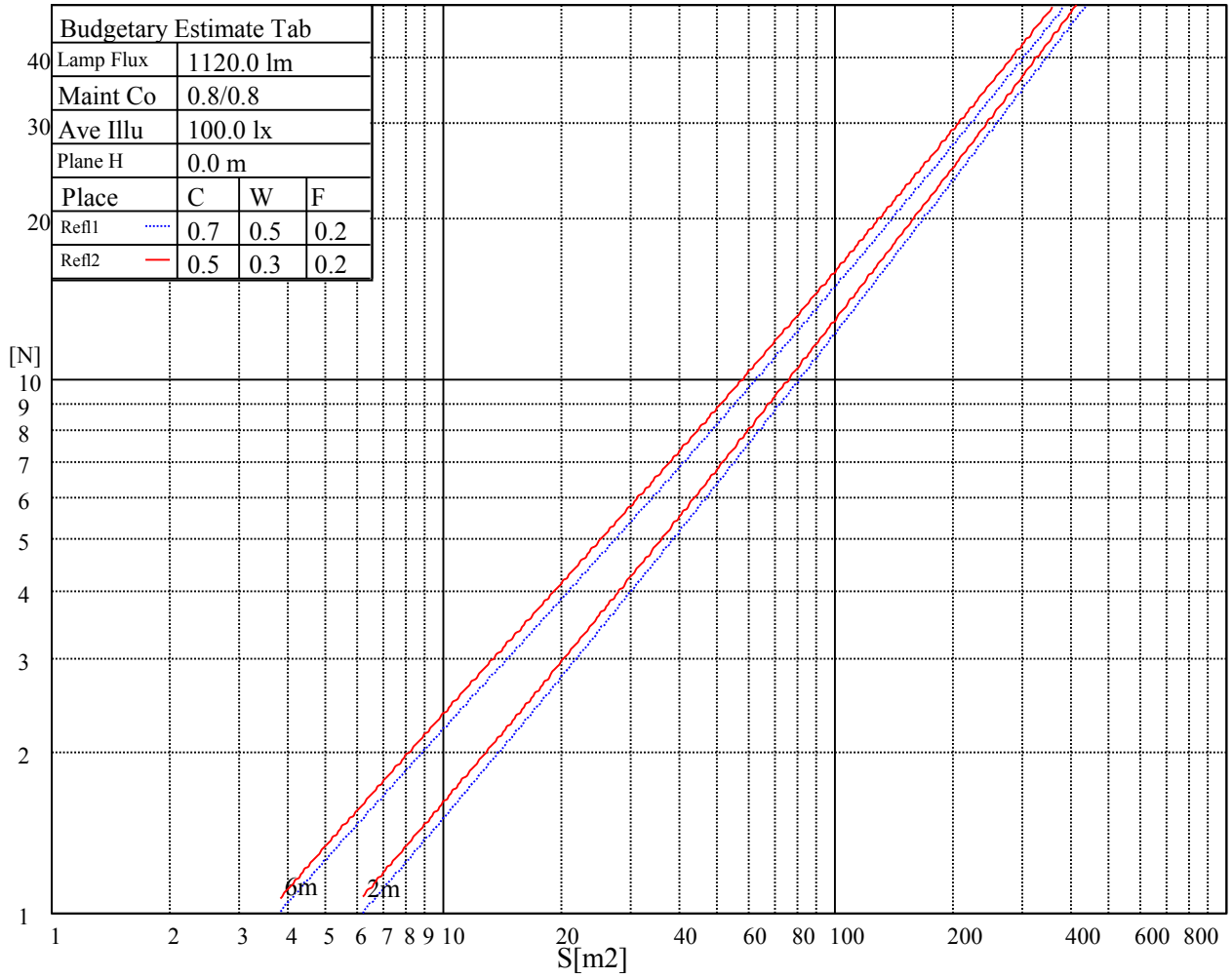
Glare Table

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 Limitting Curve



Budgetary Estimate Table

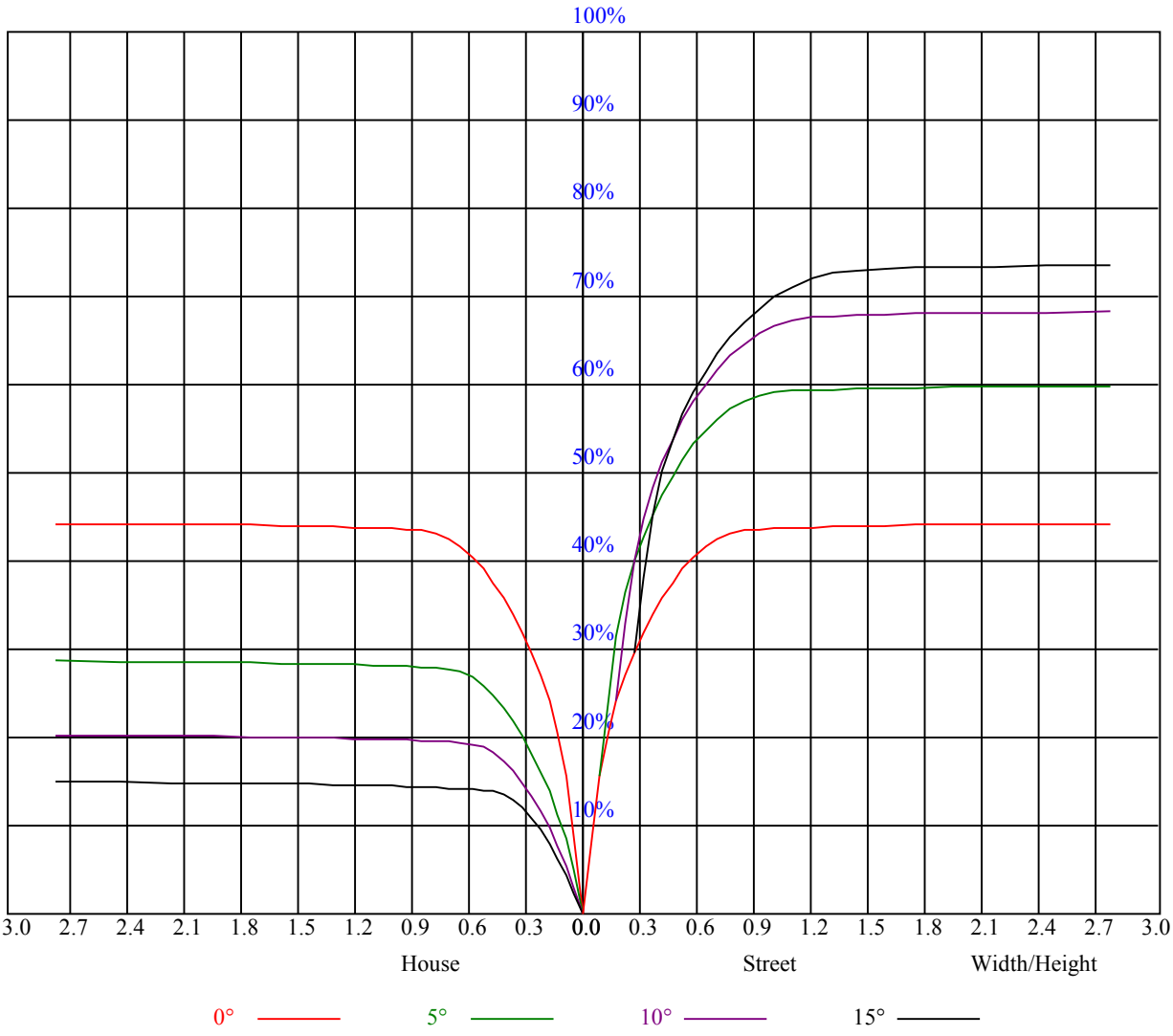


Equipment: GMS1980 Date: 2019/8/30 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

Utilization factor table for indoor luminaire

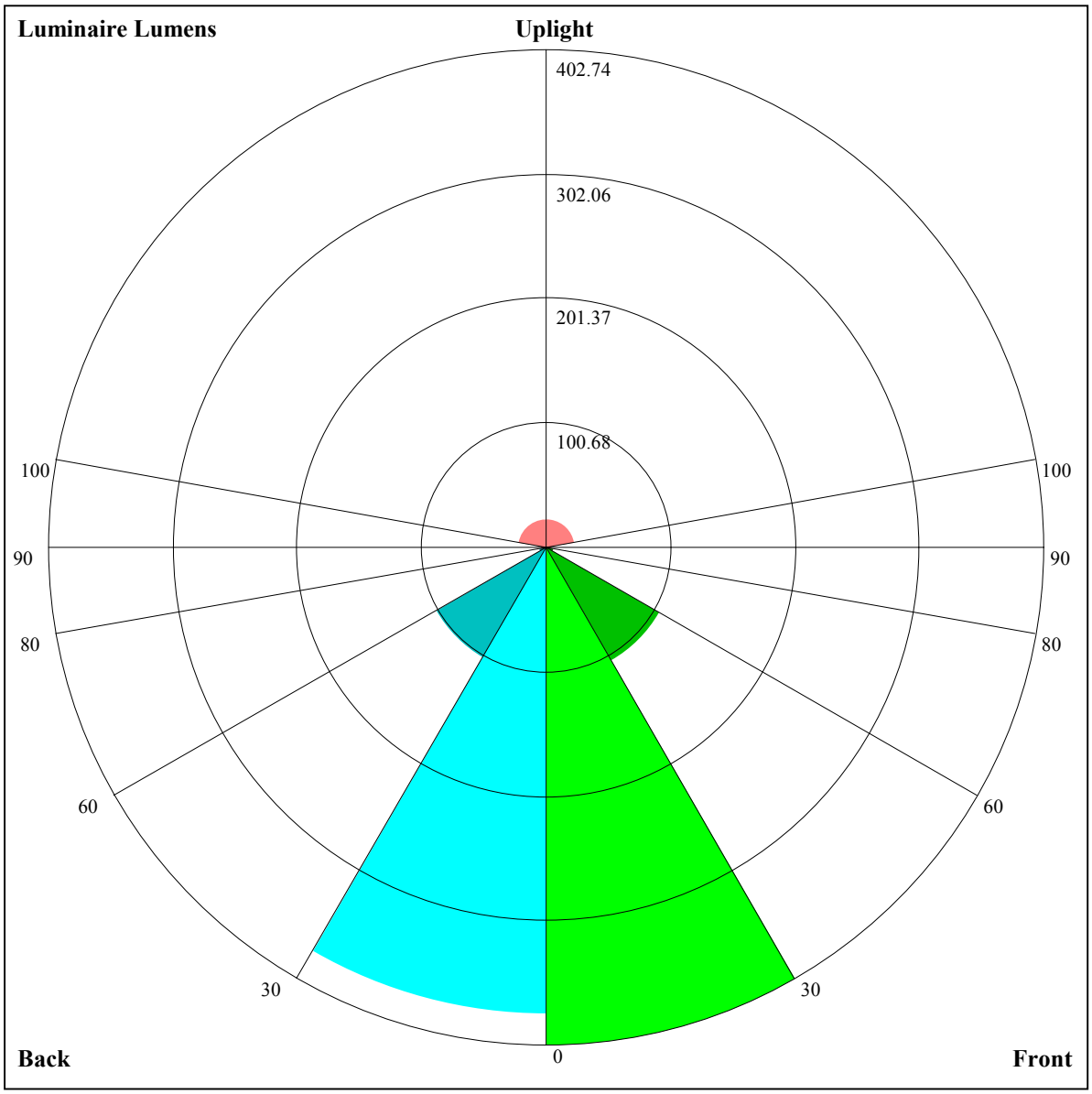
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.06	1.06	1.06	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	1.00	0.98	0.96	0.98	0.96	0.94	0.94	0.93	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.91	0.88	0.92	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.82	0.80
3	0.89	0.85	0.82	0.88	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.78	0.76
4	0.84	0.80	0.77	0.83	0.80	0.77	0.82	0.78	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.73
5	0.80	0.76	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.71	0.70
6	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
7	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.64
8	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62
9	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.66	0.63	0.60	0.59
10	0.66	0.62	0.59	0.66	0.61	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.64	0.61	0.58	0.57

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/8/30	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 65.0%	Distance(m): 7.50

LCS Graph



Luminaire Lumens:

FL=402.74,FM=105.51,FH=6.42,FVH=2.78

BL=377.45,BM=103.81,BH=6.48,BVH=2.74

UL=4.92,UH=23.4

BUG Rating:B1-U2-G0

Equipment: GMS1980	Date: 2019/8/30	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 65.0%	Distance(m): 7.50

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	9526.50	9608.06	9261.56	8266.50	7191.00	5988.38	4483.13	3395.25	2511.56
45.0	9361.13	9594.56	9389.81	8782.31	7766.44	6505.88	5294.81	3927.94	2889.00
90.0	9540.00	9376.31	8821.69	7876.13	6671.25	5506.31	4329.56	2993.63	2181.38
135.0	9545.06	9426.94	8848.69	7898.63	6857.44	5572.13	4272.19	3183.19	2318.63
180.0	9526.50	8894.81	8191.13	7033.50	5600.25	4579.88	3480.75	2256.75	1731.94
225.0	9303.19	8647.31	7718.06	6487.31	5151.94	3989.25	2975.06	2017.13	1537.88
270.0	9540.00	9254.25	8465.06	7334.44	6168.94	4819.50	3565.69	2656.13	1991.81
315.0	9545.06	9160.31	8406.56	7281.00	5988.38	4793.63	3686.63	2552.06	1917.00
360.0	9526.50	9608.06	9261.56	8266.50	7191.00	5988.38	4483.13	3395.25	2511.56

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1761.75	1401.19	1170.56	1049.63	951.19	860.06	784.13	721.69	672.19
45.0	2022.75	1464.75	1159.88	996.75	842.06	763.31	713.81	641.25	611.44
90.0	1636.31	1105.76	1022.79	910.07	832.39	775.01	733.84	695.87	668.76
135.0	1624.50	1301.63	1098.00	955.69	864.56	803.81	743.06	696.94	662.06
180.0	1248.75	1085.01	923.91	835.54	764.27	703.52	661.95	634.16	609.98
225.0	1104.81	1003.56	892.29	812.53	731.98	670.28	623.87	589.50	562.95
270.0	1460.81	1217.25	1072.69	960.75	858.94	774.00	705.38	660.38	633.38
315.0	1499.06	1112.51	1055.48	961.54	864.00	770.96	708.13	666.51	639.28
360.0	1761.75	1401.19	1170.56	1049.63	951.19	860.06	784.13	721.69	672.19

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	642.94	621.00	599.63	583.31	564.75	544.50	522.00	502.31	485.44
45.0	592.31	561.38	534.94	505.69	469.13	438.75	412.88	380.25	358.88
90.0	644.29	619.99	596.93	573.13	551.87	532.63	516.60	499.89	482.96
135.0	629.44	605.81	585.56	565.31	547.31	529.31	507.38	492.19	477.00
180.0	586.52	569.14	552.60	536.79	523.07	506.76	492.36	476.72	461.70
225.0	535.61	514.58	493.65	474.36	452.36	436.33	419.79	401.85	388.01
270.0	608.06	591.19	574.88	556.88	539.44	522.00	501.75	485.44	470.81
315.0	613.97	595.07	574.59	555.41	534.49	516.60	500.29	483.24	467.27
360.0	642.94	621.00	599.63	583.31	564.75	544.50	522.00	502.31	485.44

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	466.31	449.44	434.25	422.44	410.63	400.50	392.63	384.19	365.06
45.0	336.94	317.25	298.69	288.56	284.06	279.11	283.61	291.88	296.21
90.0	467.49	447.36	433.46	419.96	404.66	393.98	384.02	371.93	358.59
135.0	459.00	446.06	433.69	420.19	408.94	397.13	385.88	372.38	358.88
180.0	448.59	435.54	422.04	411.53	401.01	388.91	378.73	366.08	339.92
225.0	374.18	364.44	353.70	341.44	327.66	312.19	292.33	267.53	239.46
270.0	453.94	441.56	430.31	419.63	407.81	398.25	390.38	374.63	350.44
315.0	452.98	439.26	425.03	415.46	406.35	395.38	387.51	373.39	340.20
360.0	466.31	449.44	434.25	422.44	410.63	400.50	392.63	384.19	365.06

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	326.25	285.19	219.15	147.88	95.79	54.28	26.78	21.66	16.88
45.0	288.73	258.30	213.86	170.66	120.94	81.73	49.33	34.59	28.80
90.0	327.77	279.79	228.88	167.18	108.06	64.07	35.83	26.38	22.11
135.0	329.06	286.88	224.49	169.65	110.59	65.70	33.81	25.03	20.31
180.0	294.86	245.03	182.53	122.29	76.39	42.53	32.68	27.79	22.84
225.0	200.03	157.05	119.93	85.73	63.56	51.41	42.98	34.14	28.58
270.0	310.50	285.19	184.28	128.76	74.76	40.16	23.96	18.79	14.63
315.0	291.26	237.66	173.70	112.16	67.28	33.30	24.08	18.79	14.40
360.0	326.25	285.19	219.15	147.88	95.79	54.28	26.78	21.66	16.88

Intensity data(cd)

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	12.88	10.86	8.78	8.49	8.33	8.16	8.10	7.93	7.82
45.0	22.67	18.68	15.53	13.61	12.04	11.08	10.46	9.96	9.51
90.0	18.73	15.86	13.33	13.56	13.73	13.67	13.44	12.88	12.26
135.0	15.64	9.62	8.33	8.21	8.16	8.33	8.61	9.28	9.96
180.0	17.61	14.68	13.33	12.32	11.31	10.18	9.56	9.11	8.83
225.0	24.08	20.70	18.11	16.20	14.29	13.05	12.04	11.19	10.52
270.0	11.87	9.62	9.39	9.34	9.23	9.17	9.00	8.78	8.49
315.0	12.49	9.96	9.39	9.11	8.94	8.72	8.66	8.55	8.55
360.0	12.88	10.86	8.78	8.49	8.33	8.16	8.10	7.93	7.82

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	7.59	7.37	7.20	7.03	6.86	6.75	6.64	6.53	6.41
45.0	9.28	9.00	8.78	8.49	8.21	7.88	7.59	7.37	7.20
90.0	11.42	10.29	9.51	8.72	7.99	7.59	7.20	6.86	6.58
135.0	10.58	11.25	11.64	11.81	11.87	11.64	11.25	10.58	10.07
180.0	8.49	8.21	7.99	7.82	7.59	7.26	6.98	6.69	6.53
225.0	9.96	9.56	9.17	8.89	8.49	8.27	8.04	7.82	7.65
270.0	8.10	7.71	7.31	7.09	6.75	6.58	6.41	6.24	6.13
315.0	8.49	8.49	8.49	8.55	8.49	8.44	8.33	8.16	8.04
360.0	7.59	7.37	7.20	7.03	6.86	6.75	6.64	6.53	6.41

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	6.36	6.36	6.36	6.36	6.41	6.41	6.41	6.47	6.41
45.0	7.03	6.92	6.86	6.86	6.92	7.03	7.09	7.09	7.09
90.0	6.36	6.24	6.08	5.96	5.85	5.79	5.68	5.68	5.63
135.0	9.45	8.61	7.93	7.43	6.92	6.69	6.58	6.41	6.36
180.0	6.36	6.30	6.19	6.13	6.08	5.96	5.96	5.85	5.79
225.0	7.54	7.43	7.37	7.26	7.26	7.31	7.48	7.43	7.43
270.0	6.02	5.91	5.79	5.74	5.63	5.57	5.57	5.51	5.51
315.0	7.76	7.54	7.26	7.03	6.86	6.81	6.75	6.75	6.69
360.0	6.36	6.36	6.36	6.36	6.41	6.41	6.41	6.47	6.41

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.41	6.24	6.24	6.41	6.53	6.58	6.36	5.96	5.57
45.0	7.14	7.09	7.03	6.98	6.81	6.69	6.58	6.58	6.64
90.0	5.57	5.46	5.34	5.23	5.12	5.12	5.06	5.01	5.01
135.0	6.30	6.24	6.13	6.02	5.96	5.91	5.91	5.91	5.91
180.0	5.74	5.68	5.63	5.51	5.40	5.12	5.06	4.95	4.89
225.0	7.37	7.37	7.31	7.31	7.20	7.09	6.98	6.92	6.75
270.0	5.46	5.40	5.40	5.40	5.29	5.23	5.12	5.06	5.06
315.0	6.58	6.47	6.24	5.96	5.68	5.46	5.46	5.40	5.29
360.0	6.41	6.24	6.24	6.41	6.53	6.58	6.36	5.96	5.57

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.34	5.34	5.34	5.40	5.40	5.40	5.34	5.29	4.61
45.0	6.36	5.79	5.40	5.12	4.95	4.84	4.73	4.67	4.39
90.0	5.01	4.95	4.95	4.95	4.89	4.84	4.84	4.61	4.50
135.0	5.85	5.85	5.85	5.79	5.79	5.85	5.68	5.34	5.23
180.0	4.89	4.89	4.84	4.84	4.84	4.78	4.56	4.44	4.39
225.0	6.19	5.40	5.06	4.84	4.73	4.67	4.33	4.33	4.28
270.0	5.06	5.06	5.12	5.18	5.18	5.18	5.23	4.56	4.50
315.0	5.29	5.34	5.40	5.40	5.40	5.46	5.40	4.84	4.61
360.0	5.34	5.34	5.34	5.40	5.40	5.40	5.34	5.29	4.61

Intensity data(cd)

C/γ(°)	90.0
0.0	4.50
45.0	4.33
90.0	4.44
135.0	5.06
180.0	4.39
225.0	4.28
270.0	4.44
315.0	4.61
360.0	4.50