NATA LIGHTING CO.,LTD.
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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

Client:
LumCAT: 3-1943-M
Luminaire:
Report No:
Test No: GC2019081301
LampCAT: TRIDONIC SLE G7 17MM
Lamp flux(lm): 1190.0
Number of Lamps: 1
Length(mm): 86
Phm Type: C

Voltage(V): 32.8200
Current(A): 0.2970
Power (W): 9.7400
PF: 0.0000
Ballast type: DC
Width(mm): 86
Height(mm): 0

Photometric Results

Lumens(lm): 1010.60, Efficiency(%): 84.92% , Luminous Efficacy(lm/W): 103.76
Central intensity(cd): 3406.219, Maximum intensity(cd): 3406.219
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=27.0
[C90/270]Total=27.0
Field angle(10%Imax): [C0/180]Total=61.6
[C90/270]Total=61.6
Maximum s/h(1/2): C0_180=0.46 C90_270=0.46
Maximum s/h(1/4): C0_180=0.43 C90_270=0.43
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.92%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.399%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3406.219	0.000	0	.000%	.000%
1.0	3402.563	3.258	3.258	.274%	.322%
2.0	3387.727	9.746	13.004	.819%	1.287%
3.0	3363.117	16.146	29.15	1.357%	2.884%
4.0	3317.695	22.363	51.513	1.879%	5.097%
5.0	3246.328	28.238	79.751	2.373%	7.891%
6.0	3139.945	33.562	113.312	2.820%	11.212%
7.0	3012.680	38.189	151.501	3.209%	14.991%
8.0	2856.375	42.004	193.505	3.530%	19.147%
9.0	2675.531	44.833	238.338	3.767%	23.584%
10.0	2478.023	46.638	284.976	3.919%	28.199%
11.0	2277.141	47.514	332.49	3.993%	32.900%
12.0	2064.375	47.459	379.949	3.988%	37.596%
13.0	1825.172	46.159	426.108	3.879%	42.164%
14.0	1589.428	43.707	469.815	3.673%	46.489%
15.0	1381.690	40.789	510.603	3.428%	50.525%
16.0	1152.612	37.135	547.738	3.121%	54.199%
17.0	967.409	33.014	580.752	2.774%	57.466%
18.0	834.391	29.708	610.46	2.496%	60.406%
19.0	728.782	27.196	637.656	2.285%	63.097%
20.0	640.582	25.063	662.719	2.106%	65.577%
21.0	572.843	23.300	686.02	1.958%	67.882%
22.0	528.202	22.126	708.146	1.859%	70.072%
23.0	492.497	21.417	729.563	1.800%	72.191%
24.0	461.580	20.860	750.422	1.753%	74.255%
25.0	440.487	20.511	770.933	1.724%	76.284%
26.0	422.135	20.362	791.295	1.711%	78.299%
27.0	406.259	20.267	811.562	1.703%	80.305%
28.0	393.251	20.242	831.804	1.701%	82.308%
29.0	379.069	20.206	852.01	1.698%	84.307%
30.0	361.266	19.989	871.999	1.680%	86.285%
31.0	336.009	19.404	891.403	1.631%	88.205%
32.0	303.989	18.335	909.738	1.541%	90.019%
33.0	264.670	16.753	926.491	1.408%	91.677%
34.0	222.188	14.734	941.225	1.238%	93.135%
35.0	178.643	12.448	953.673	1.046%	94.367%
36.0	134.114	9.958	963.632	.837%	95.352%
37.0	98.543	7.588	971.22	.638%	96.103%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	63.534	5.410	976.63	.455%	96.638%
39.0	36.225	3.405	980.035	.286%	96.975%
40.0	21.558	2.015	982.05	.169%	97.175%
41.0	13.908	1.263	983.313	.106%	97.300%
42.0	10.934	0.903	984.215	.076%	97.389%
43.0	9.823	0.769	984.984	.065%	97.465%
44.0	9.042	0.712	985.696	.060%	97.535%
45.0	8.304	0.667	986.363	.056%	97.601%
46.0	7.685	0.625	986.988	.053%	97.663%
47.0	7.151	0.590	987.578	.050%	97.722%
48.0	6.820	0.565	988.143	.047%	97.778%
49.0	6.609	0.551	988.694	.046%	97.832%
50.0	6.391	0.542	989.237	.046%	97.886%
51.0	6.251	0.535	989.771	.045%	97.939%
52.0	6.117	0.531	990.302	.045%	97.991%
53.0	5.998	0.527	990.829	.044%	98.043%
54.0	5.885	0.524	991.353	.044%	98.095%
55.0	5.752	0.519	991.872	.044%	98.147%
56.0	5.667	0.516	992.388	.043%	98.198%
57.0	5.548	0.513	992.901	.043%	98.248%
58.0	5.463	0.509	993.41	.043%	98.299%
59.0	5.400	0.508	993.918	.043%	98.349%
60.0	5.330	0.507	994.425	.043%	98.399%
61.0	5.273	0.506	994.931	.043%	98.449%
62.0	5.231	0.506	995.437	.043%	98.499%
63.0	5.196	0.507	995.944	.043%	98.549%
64.0	5.140	0.507	996.452	.043%	98.600%
65.0	5.105	0.507	996.959	.043%	98.650%
66.0	5.084	0.508	997.467	.043%	98.700%
67.0	5.063	0.510	997.977	.043%	98.751%
68.0	5.041	0.512	998.489	.043%	98.801%
69.0	5.105	0.518	999.006	.043%	98.852%
70.0	5.210	0.530	999.536	.045%	98.905%
71.0	5.337	0.545	1000.081	.046%	98.959%
72.0	5.562	0.567	1000.648	.048%	99.015%
73.0	5.730	0.590	1001.239	.050%	99.073%
74.0	5.857	0.609	1001.848	.051%	99.134%
75.0	5.984	0.626	1002.473	.053%	99.196%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.054	0.639	1003.112	.054%	99.259%
77.0	5.977	0.641	1003.754	.054%	99.322%
78.0	5.562	0.618	1004.371	.052%	99.383%
79.0	5.070	0.571	1004.943	.048%	99.440%
80.0	4.964	0.541	1005.484	.045%	99.493%
81.0	4.859	0.531	1006.015	.045%	99.546%
82.0	4.795	0.524	1006.538	.044%	99.598%
83.0	4.802	0.522	1007.06	.044%	99.649%
84.0	4.788	0.522	1007.582	.044%	99.701%
85.0	4.746	0.520	1008.103	.044%	99.753%
86.0	4.697	0.516	1008.619	.043%	99.804%
87.0	4.655	0.512	1009.131	.043%	99.854%
88.0	4.514	0.502	1009.633	.042%	99.904%
89.0	4.409	0.489	1010.122	.041%	99.952%
90.0	4.373	0.482	1010.604	.040%	100.000%

Zonal flux distribution table

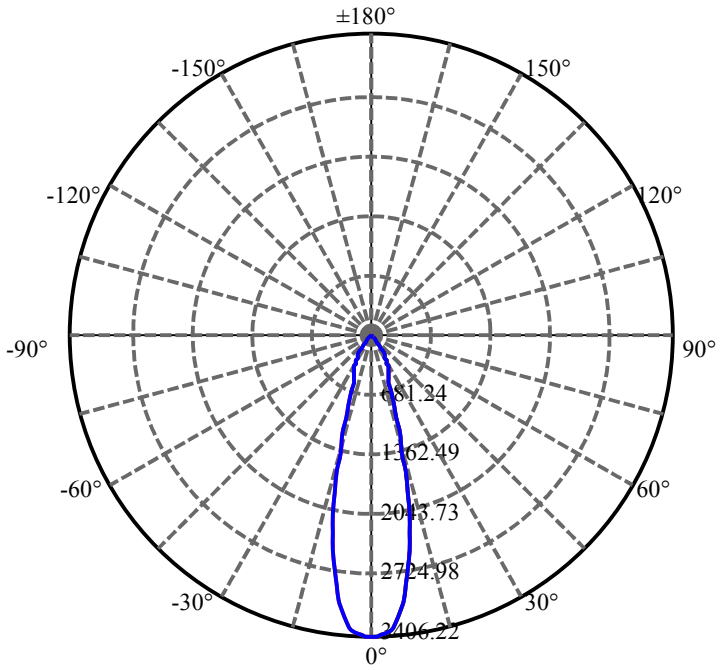
ZONAL LUMEN SUMMARY

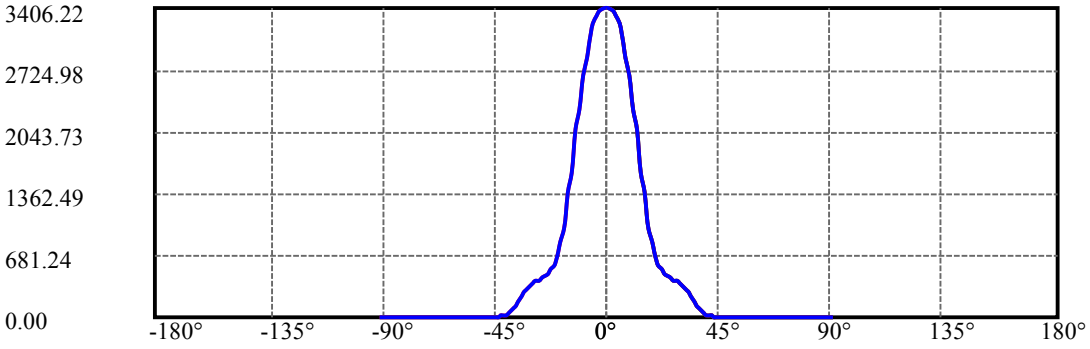
Zone	Lumens	%Lamp	%Fixt
0-30	872.00	73.28%	86.28%
0-40	982.05	82.53%	97.17%
0-60	994.43	83.57%	98.40%
0-90	1010.12	84.88%	99.95%
0-120	1010.12	84.88%	99.95%
0-180	1010.60	84.92%	100.00%
60-90	16.20	1.36%	1.60%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.85	808.48	67.94%	80.00%

ZONAL LUMEN SUMMARY

0-10	284.98
10-20	377.74
20-30	209.28
30-40	110.05
40-50	7.19
50-60	5.19
60-70	5.11
70-80	5.95
80-90	4.64
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):

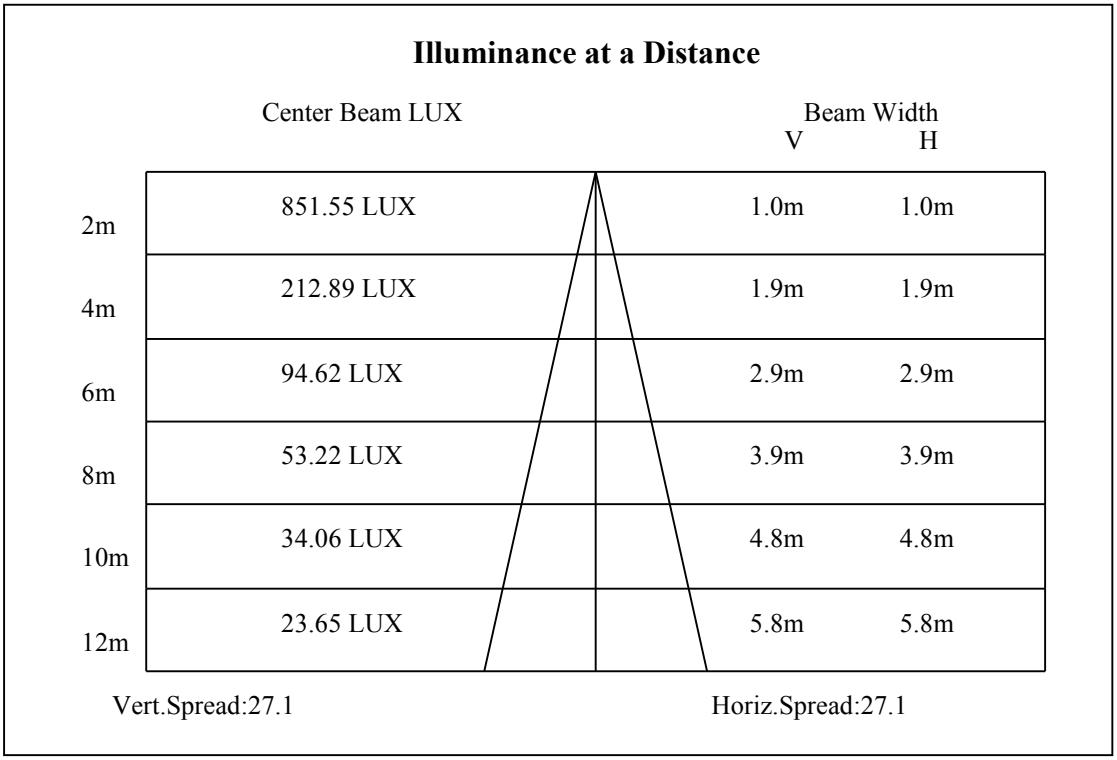
C0/C180:

C90/C270:

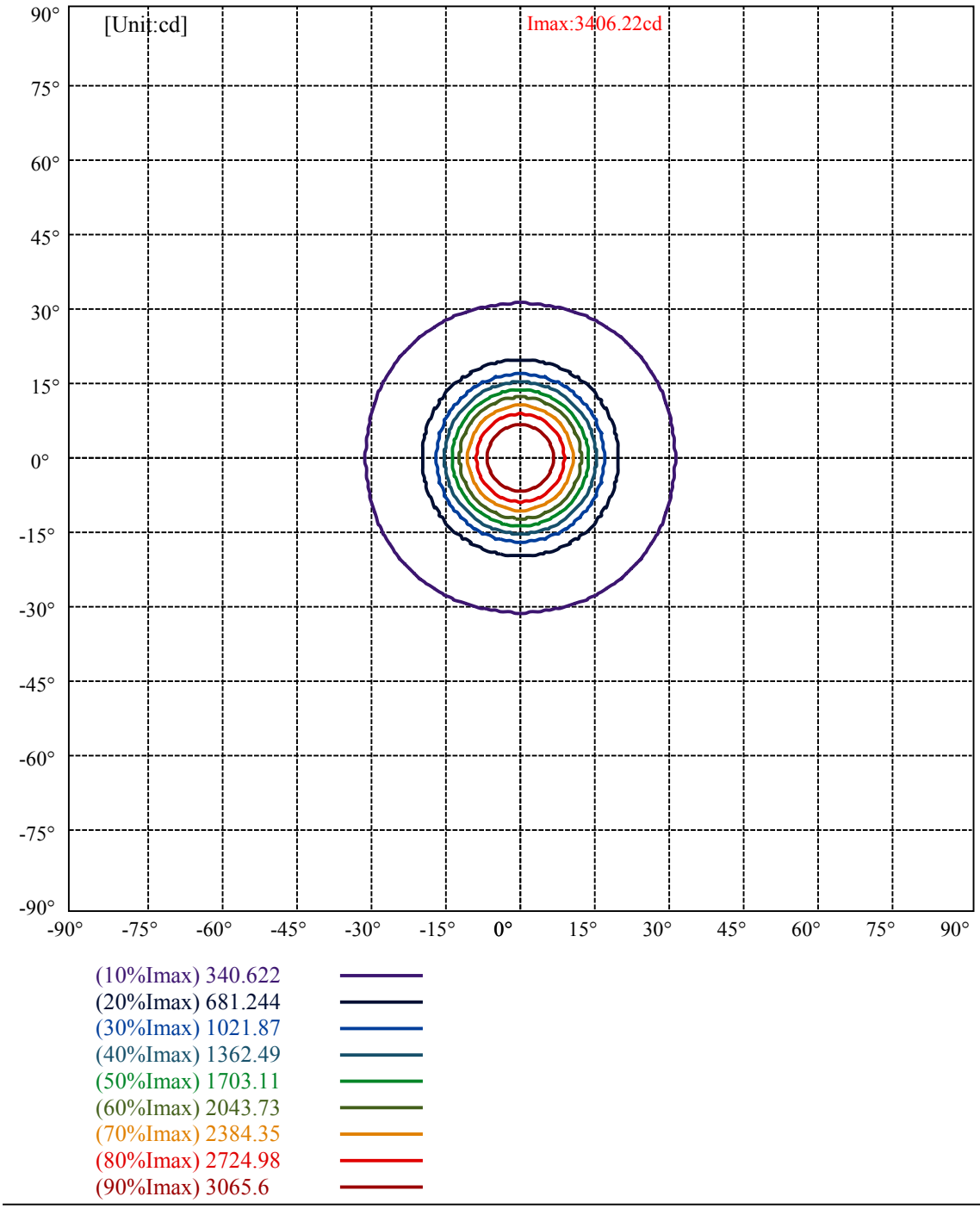
Field angle(10%Imax):C0/180Left:30.8 Right:30.8
:C90/270Left:30.8 Right:30.8

Beam Angle(50%Imax):C0/180Left:13.5 Right:13.5
:C90/270Left:13.5 Right:13.5

Lux distance Curve



ISO-Intensity(V-H)

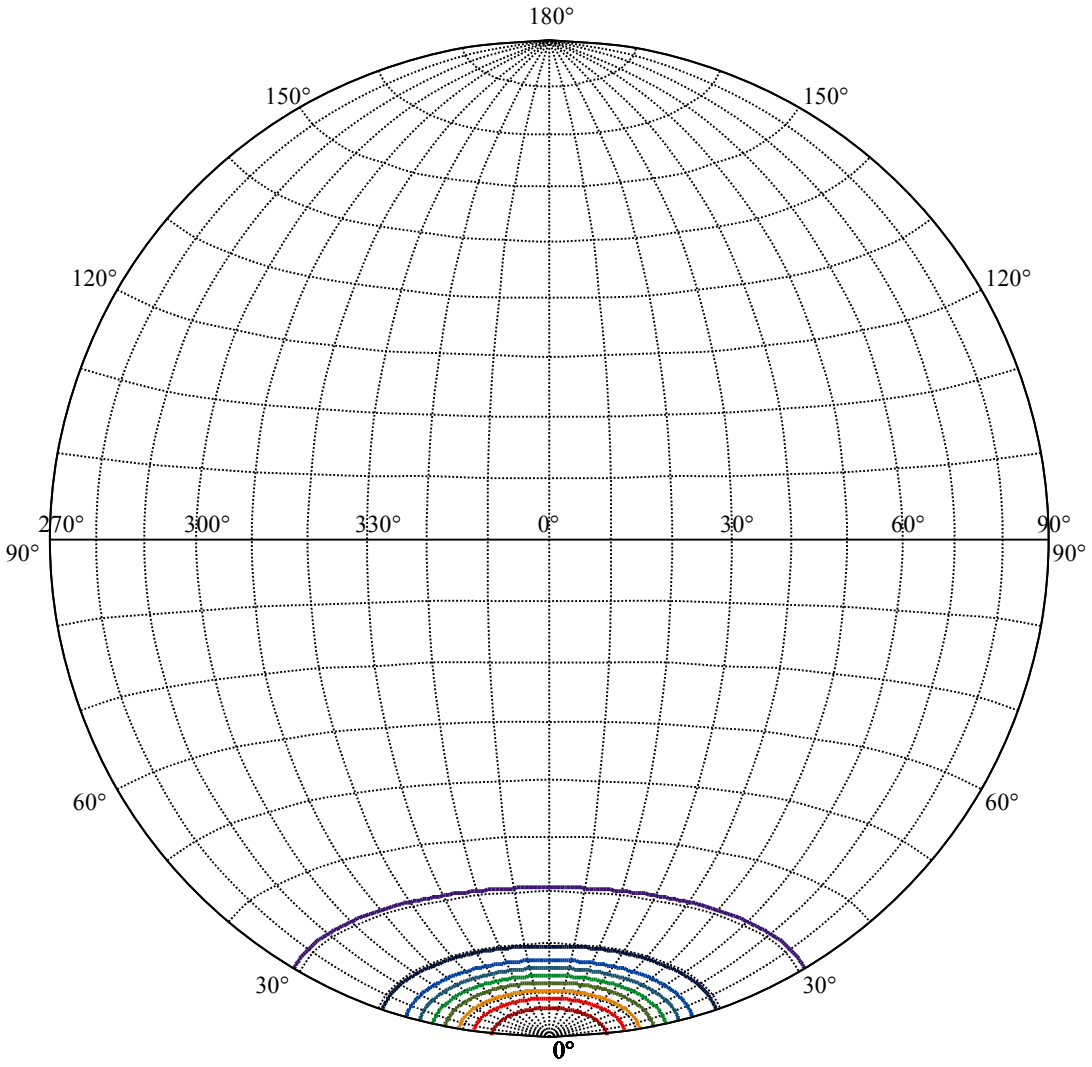


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2019/8/13
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:3406.22

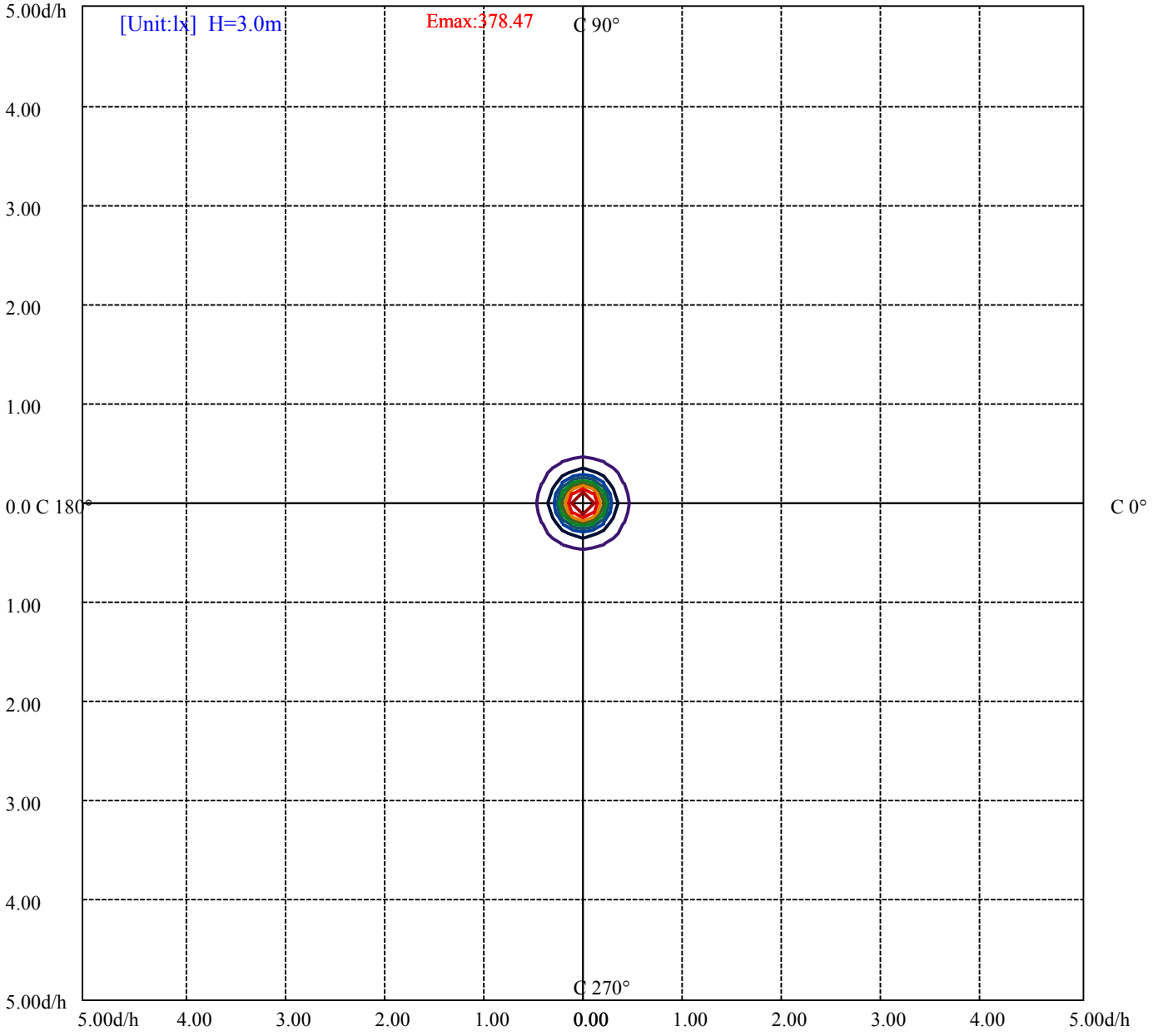
(10%Imax) 340.622
(20%Imax) 681.244
(30%Imax) 1021.87
(40%Imax) 1362.49
(50%Imax) 1703.11
(60%Imax) 2043.73
(70%Imax) 2384.35
(80%Imax) 2724.98
(90%Imax) 3065.6

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2019/8/13
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

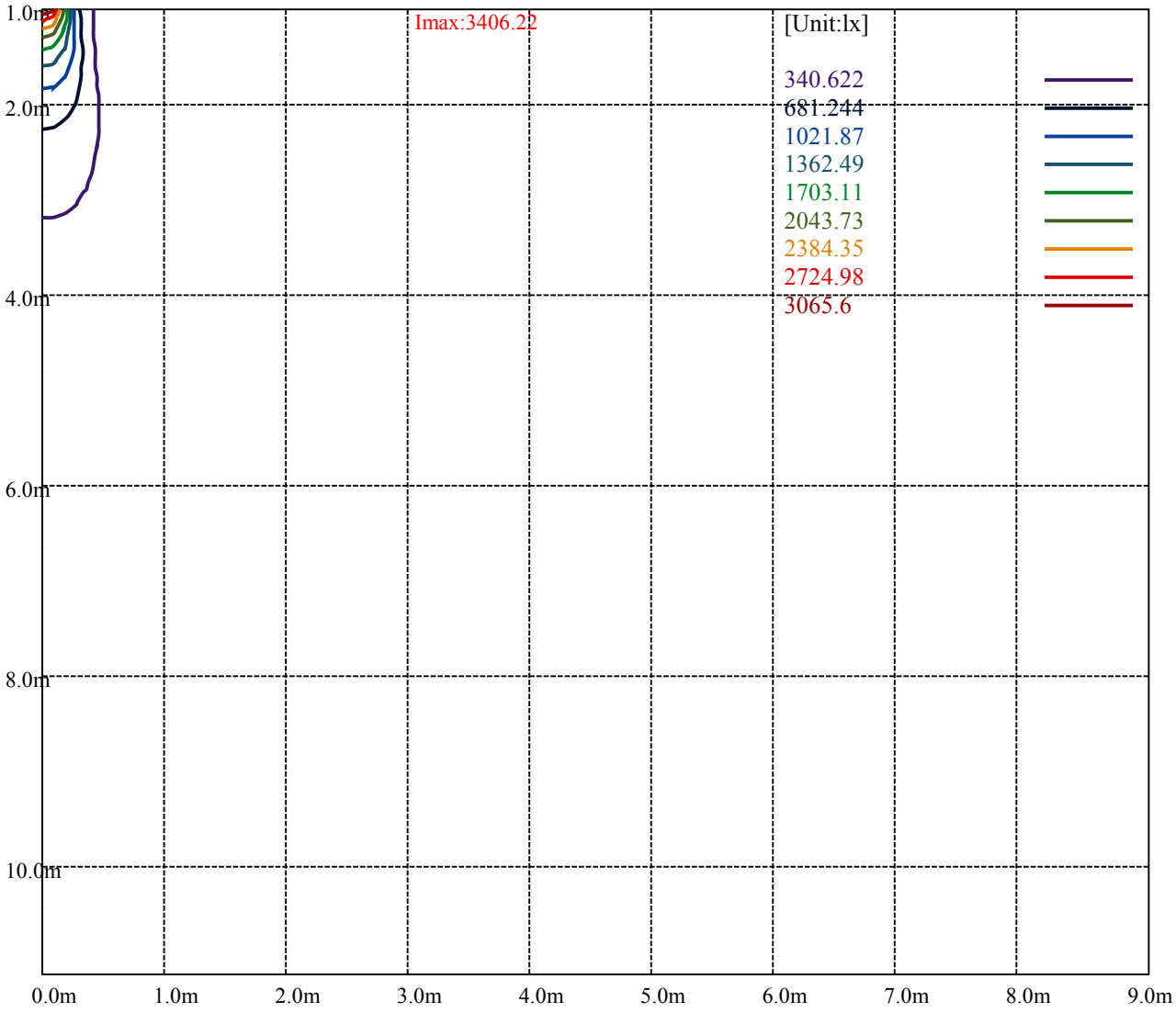
ISO illuminance diagram



(10%Emax) 37.84689
(20%Emax) 75.69378
(30%Emax) 113.5411
(40%Emax) 151.3878
(50%Emax) 189.2344
(60%Emax) 227.0811
(70%Emax) 264.9278
(80%Emax) 302.7744
(90%Emax) 340.6222

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2019/8/13
Humidity(%): 65.0%
Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2019/8/13
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

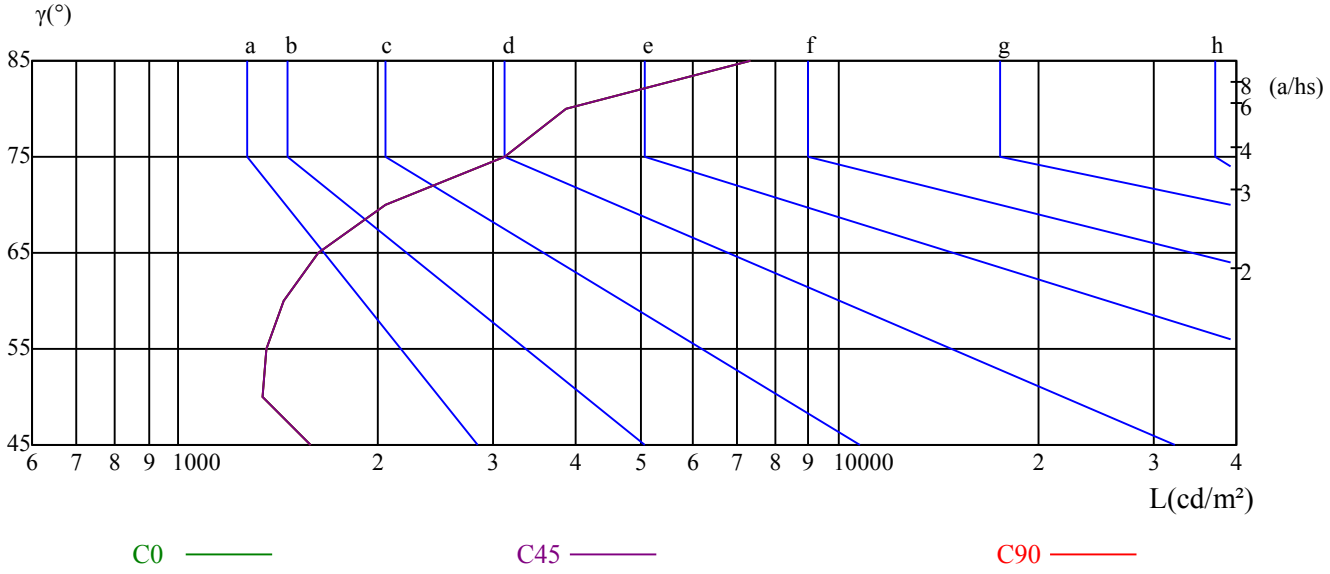
γ	45	50	55	60	65	70	75	80	85
C0	1588	1344	1356	1441	1633	2060	3126	3865	7363
C45	1588	1344	1356	1441	1633	2060	3126	3865	7363
C90	1588	1344	1356	1441	1633	2060	3126	3865	7363

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1633	1633	1633	3126	3126	3126	7363	7363	7363

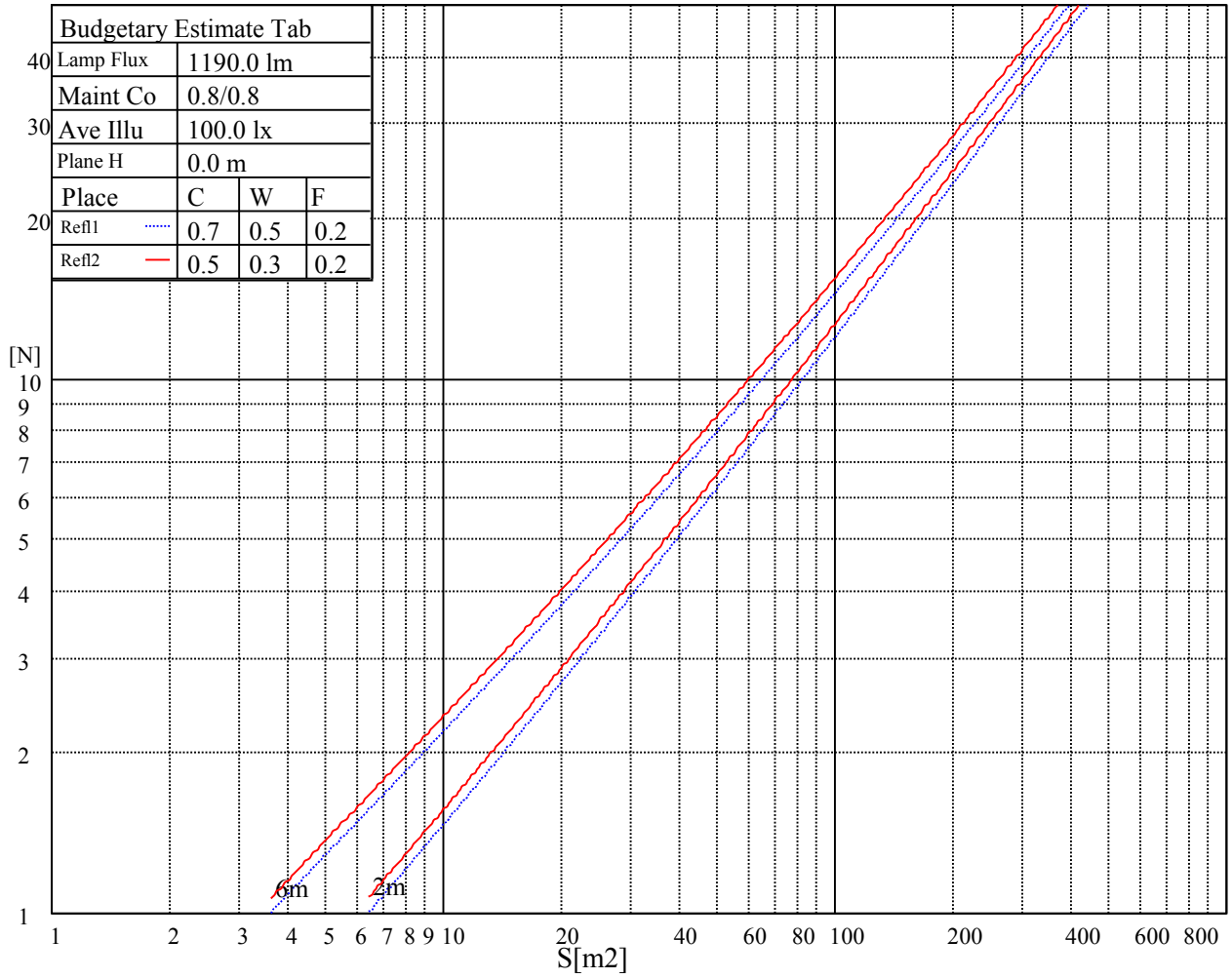
Glare Table

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

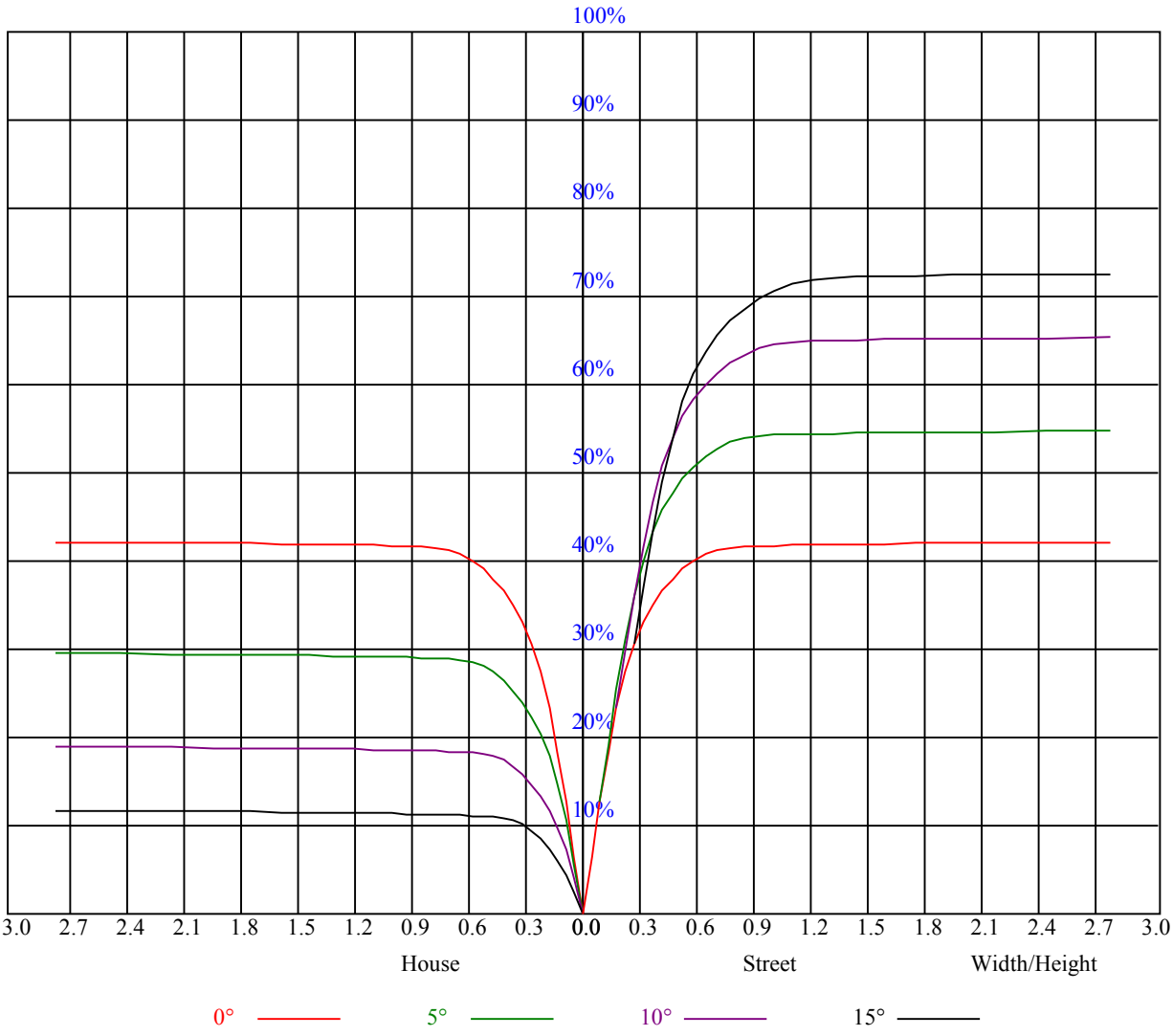


Equipment: GMS1980 Date: 2019/8/13 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

Utilization factor table for indoor luminaire

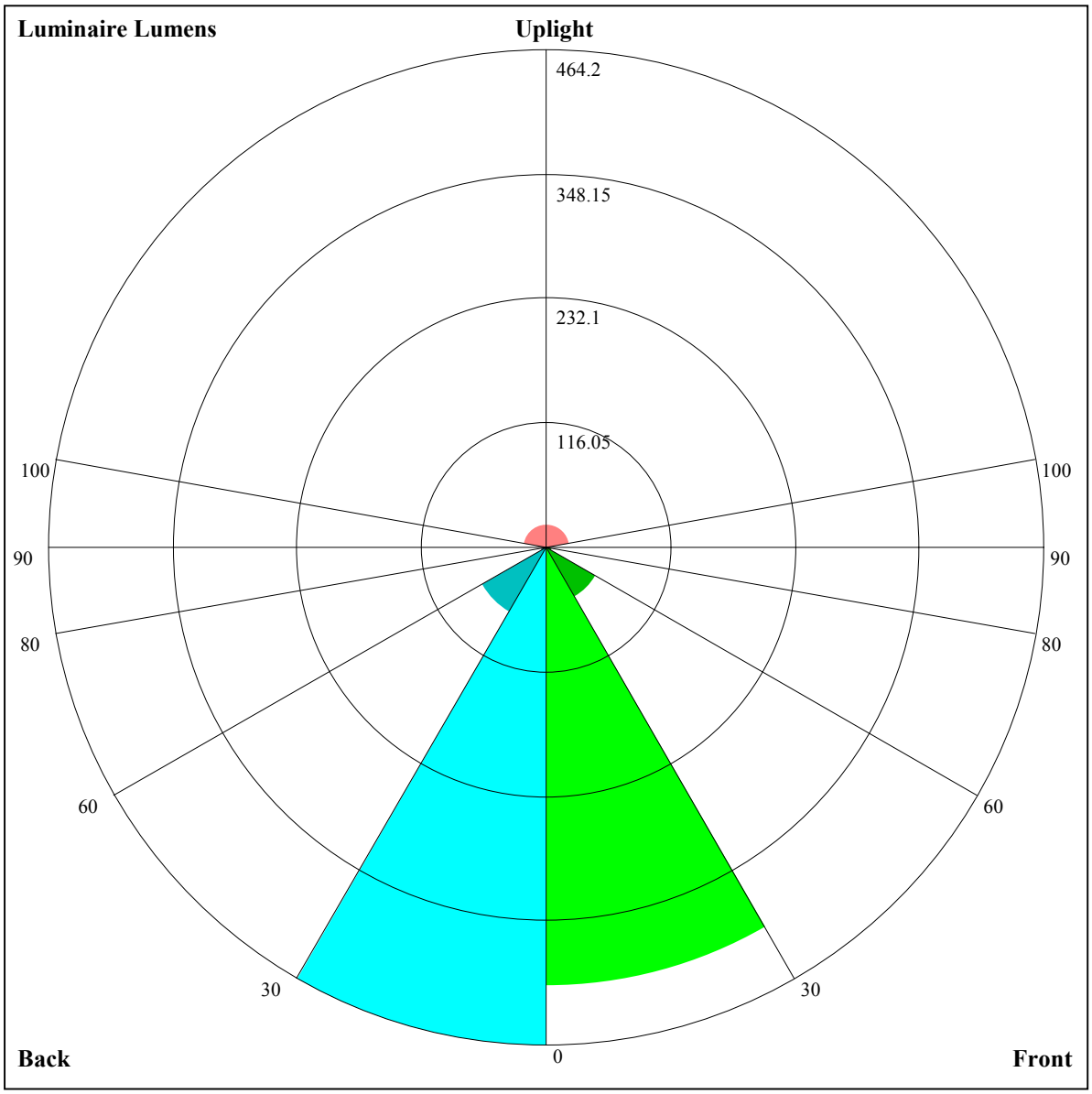
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.90	0.90	0.88	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81
2	0.90	0.87	0.84	0.88	0.86	0.83	0.86	0.83	0.82	0.83	0.81	0.80	0.81	0.79	0.78	0.77
3	0.85	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.78	0.76	0.75	0.73
4	0.81	0.77	0.74	0.80	0.77	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.70
5	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.73	0.70	0.69	0.67
6	0.74	0.70	0.67	0.74	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.70	0.68	0.66	0.65
7	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
8	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.58
10	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.56

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/8/13	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 65.0%	Distance(m): 7.50

LCS Graph



Luminaire Lumens:

FL=408.49,FM=53.71,FH=5.57,FVH=2.57

BL=464.2,BM=69.39,BH=5.46,BVH=2.54

UL=4.77,UH=22.71

BUG Rating:B1-U2-G0

Equipment: GMS1980	Date: 2019/8/13	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	3403.69	3388.50	3353.63	3306.94	3211.88	3101.06	2940.19	2760.75	2586.94
45.0	3411.56	3409.88	3396.38	3375.00	3328.88	3232.13	3117.94	2970.56	2776.50
90.0	3411.00	3414.94	3413.25	3402.00	3367.69	3311.44	3201.19	3077.44	2923.88
135.0	3398.63	3413.81	3418.88	3420.56	3412.13	3393.56	3345.75	3266.44	3161.25
180.0	3403.69	3412.13	3410.44	3403.69	3392.44	3371.63	3320.44	3251.81	3143.25
225.0	3411.56	3408.19	3398.06	3380.63	3353.63	3292.31	3221.44	3099.94	2924.44
270.0	3411.00	3400.88	3378.38	3352.50	3305.81	3223.13	3106.69	2971.69	2804.63
315.0	3398.63	3372.19	3332.81	3263.63	3169.13	3045.38	2865.94	2702.81	2530.13
360.0	3403.69	3388.50	3353.63	3306.94	3211.88	3101.06	2940.19	2760.75	2586.94

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2377.13	2159.44	1955.81	1739.25	1466.44	1252.69	1057.50	874.13	741.94
45.0	2568.94	2377.13	2157.75	1954.13	1717.31	1473.19	1266.19	1052.44	879.75
90.0	2723.06	2502.00	2300.63	2067.19	1827.56	1614.38	1380.38	1106.55	980.16
135.0	3007.69	2818.69	2629.69	2431.13	2174.63	1965.94	1754.44	1541.25	1277.44
180.0	2989.13	2804.63	2622.38	2406.38	2180.81	1972.13	1734.19	1520.44	1099.69
225.0	2787.75	2599.88	2400.19	2210.63	2009.25	1741.50	1519.88	1116.51	1093.78
270.0	2624.06	2454.75	2250.00	2053.69	1820.81	1577.81	1357.88	1173.38	950.06
315.0	2326.50	2107.69	1900.69	1652.63	1404.56	1117.80	983.08	836.21	716.46
360.0	2377.13	2159.44	1955.81	1739.25	1466.44	1252.69	1057.50	874.13	741.94

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	655.88	584.44	532.69	497.25	466.88	446.06	428.63	411.75	401.06
45.0	763.31	675.00	604.13	559.13	522.56	484.88	462.38	442.13	420.75
90.0	823.89	719.78	641.81	571.16	530.33	497.53	464.85	443.19	424.97
135.0	1080.00	905.63	762.75	672.19	597.38	545.63	504.56	474.75	450.56
180.0	1031.06	888.98	763.09	641.31	578.64	536.23	484.48	459.56	437.46
225.0	890.49	769.73	680.46	597.94	549.17	509.74	475.31	448.88	430.03
270.0	799.88	713.25	610.88	556.88	519.19	478.13	450.56	434.81	415.69
315.0	630.62	573.47	528.86	486.90	461.48	441.79	421.88	408.83	396.56
360.0	655.88	584.44	532.69	497.25	466.88	446.06	428.63	411.75	401.06

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	390.38	380.81	361.13	332.44	288.56	264.43	207.28	166.50	116.89
45.0	402.75	390.38	378.56	358.88	324.56	286.88	239.63	193.56	150.41
90.0	406.80	391.61	381.71	369.68	346.56	310.16	267.69	227.87	183.60
135.0	431.44	412.31	396.56	385.88	374.06	357.75	330.19	296.44	262.63
180.0	417.38	401.23	388.52	376.88	368.55	349.99	317.76	282.71	240.41
225.0	411.92	398.53	386.55	376.59	356.63	320.96	279.23	238.84	197.61
270.0	403.88	393.75	382.50	370.69	342.56	299.25	284.63	216.84	166.84
315.0	385.54	377.38	357.02	319.11	286.59	242.49	190.97	154.74	110.76
360.0	390.38	380.81	361.13	332.44	288.56	264.43	207.28	166.50	116.89

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	79.99	51.36	20.48	12.66	11.14	10.13	9.23	8.72	8.04
45.0	111.04	75.26	38.14	17.72	12.77	10.97	10.07	9.28	8.61
90.0	139.16	101.19	66.77	30.77	14.96	12.71	10.97	10.18	9.39
135.0	205.71	165.77	122.74	82.29	49.61	22.39	13.61	11.64	10.63
180.0	195.64	156.21	117.51	73.74	43.14	20.76	12.99	10.80	9.90
225.0	148.11	108.90	72.79	38.03	16.59	12.77	11.03	10.07	9.28
270.0	126.45	88.54	50.68	22.50	13.39	11.48	10.52	9.68	8.94
315.0	66.83	41.12	19.18	12.09	10.86	10.07	9.06	8.21	7.54
360.0	79.99	51.36	20.48	12.66	11.14	10.13	9.23	8.72	8.04

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	7.54	7.09	6.58	6.41	6.30	6.13	5.96	5.85	5.74
45.0	7.82	7.26	6.98	6.81	6.64	6.47	6.36	6.19	6.13
90.0	8.44	7.65	7.09	6.81	6.64	6.47	6.30	6.24	6.08
135.0	9.79	9.06	8.27	7.65	7.26	6.64	6.53	6.36	6.19
180.0	9.06	8.27	7.71	7.14	6.81	6.58	6.47	6.30	6.13
225.0	8.66	8.10	7.31	6.86	6.69	6.53	6.36	6.24	6.13
270.0	8.27	7.43	6.86	6.64	6.41	6.30	6.13	6.02	5.91
315.0	6.86	6.64	6.41	6.24	6.13	6.02	5.91	5.74	5.68
360.0	7.54	7.09	6.58	6.41	6.30	6.13	5.96	5.85	5.74

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	5.68	5.57	5.51	5.40	5.34	5.29	5.29	5.23	5.18
45.0	6.02	5.85	5.74	5.68	5.63	5.57	5.51	5.46	5.40
90.0	5.96	5.85	5.74	5.57	5.51	5.46	5.40	5.34	5.29
135.0	6.08	5.91	5.85	5.68	5.63	5.51	5.40	5.34	5.34
180.0	6.02	5.85	5.79	5.68	5.51	5.46	5.40	5.34	5.29
225.0	5.96	5.85	5.74	5.63	5.51	5.46	5.34	5.29	5.29
270.0	5.79	5.68	5.57	5.46	5.34	5.29	5.18	5.12	5.06
315.0	5.57	5.46	5.40	5.29	5.23	5.18	5.12	5.06	5.01
360.0	5.68	5.57	5.51	5.40	5.34	5.29	5.29	5.23	5.18

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	5.18	5.18	5.12	5.18	5.18	5.18	5.18	5.18	5.18
45.0	5.40	5.34	5.34	5.34	5.29	5.29	5.74	6.13	6.64
90.0	5.23	5.18	5.18	5.12	5.12	5.12	5.46	5.85	6.24
135.0	5.29	5.18	5.12	5.06	5.06	5.01	4.95	4.95	4.89
180.0	5.23	5.18	5.12	5.06	5.06	5.01	4.95	4.95	4.89
225.0	5.23	5.18	5.18	5.12	5.12	5.12	5.06	5.12	5.46
270.0	5.01	4.95	4.89	4.89	4.84	4.78	4.73	4.73	4.67
315.0	5.01	4.95	4.89	4.89	4.84	4.84	4.78	4.78	4.73
360.0	5.18	5.18	5.12	5.18	5.18	5.18	5.18	5.18	5.18

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.18	5.18	5.12	5.12	5.12	5.06	5.01	5.01	5.01
45.0	7.20	7.76	8.38	9.11	9.51	9.17	6.92	5.68	5.91
90.0	6.64	6.86	7.03	7.03	6.86	6.53	6.08	4.89	4.89
135.0	4.89	4.84	4.84	4.78	4.78	4.73	4.73	4.73	4.73
180.0	4.89	4.84	4.84	4.84	4.78	4.78	4.78	4.78	4.73
225.0	6.36	6.98	7.37	7.71	8.16	8.33	7.76	6.24	5.23
270.0	4.67	4.67	4.61	4.61	4.56	4.56	4.56	4.56	4.56
315.0	4.67	4.73	4.67	4.67	4.67	4.67	4.67	4.67	4.67
360.0	5.18	5.18	5.12	5.12	5.12	5.06	5.01	5.01	5.01

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.95	4.95	4.95	4.89	4.78	4.73	4.67	4.39	4.33
45.0	5.29	5.18	5.18	5.06	5.06	4.95	4.89	4.56	4.39
90.0	4.78	4.78	4.78	4.78	4.73	4.73	4.67	4.56	4.39
135.0	4.67	4.67	4.67	4.67	4.67	4.61	4.56	4.50	4.44
180.0	4.73	4.73	4.67	4.67	4.67	4.67	4.61	4.56	4.44
225.0	5.23	4.84	4.89	4.89	4.84	4.78	4.73	4.67	4.50
270.0	4.56	4.56	4.61	4.61	4.61	4.56	4.56	4.50	4.39
315.0	4.67	4.67	4.67	4.73	4.61	4.56	4.56	4.39	4.39
360.0	4.95	4.95	4.95	4.89	4.78	4.73	4.67	4.39	4.33

Intensity data(cd)

C/γ(°)	90.0
0.0	4.33
45.0	4.39
90.0	4.39
135.0	4.39
180.0	4.33
225.0	4.39
270.0	4.39
315.0	4.39
360.0	4.33