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

LumCAT: 3-2116-N
Luminaire: 92.70.131.00

Report No: NATA0100	Voltage(V): 35.3000
Test No: GC2019011808	Current(A): 0.3000
LampCAT: CITIZEN CLU710	Power (W): 10.5900
Lamp flux(lm): 1285.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 80	Width(mm): 80
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1069.00
Efficiency(%): 83.19%
Lumens(lm)/Power(W): 101.11
Central intensity(cd): 7445.671
Maximum intensity(cd): 7445.671
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=17.4
[C90/270]Total=17.4
Field angle(10%Imax): [C0/180]Total=33.6
[C90/270]Total=33.6
Maximum s/h(1/2): C0_180=0.30 C90_270=0.30
Maximum s/h(1/4): C0_180=0.30 C90_270=0.30
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 83.33%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.051%

Equipment: GMS1980	Date: 2019/1/18	Operator: NT07
Temperature(°C): 10.0	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	7445.672	1.781	1.781	.139%	.167%
1.0	7393.641	14.150	15.932	1.101%	1.490%
2.0	7234.523	27.687	43.619	2.155%	4.080%
3.0	6934.992	39.801	83.42	3.097%	7.804%
4.0	6524.367	49.909	133.329	3.884%	12.472%
5.0	6013.898	57.478	190.807	4.473%	17.849%
6.0	5437.406	62.327	253.134	4.850%	23.679%
7.0	4767.469	63.714	316.848	4.958%	29.640%
8.0	4169.320	63.632	380.48	4.952%	35.592%
9.0	3515.555	60.308	440.788	4.693%	41.234%
10.0	2879.016	54.823	495.612	4.266%	46.362%
11.0	2382.328	49.849	545.46	3.879%	51.025%
12.0	1923.891	43.864	589.324	3.414%	55.128%
13.0	1487.637	36.698	626.022	2.856%	58.561%
14.0	1197.527	31.770	657.792	2.472%	61.533%
15.0	997.988	28.325	686.117	2.204%	64.183%
16.0	825.286	24.946	711.062	1.941%	66.516%
17.0	723.663	23.202	734.264	1.806%	68.687%
18.0	646.889	21.921	756.185	1.706%	70.737%
19.0	590.147	21.069	777.255	1.640%	72.708%
20.0	548.353	20.567	797.822	1.601%	74.632%
21.0	514.427	20.216	818.038	1.573%	76.523%
22.0	487.807	20.039	838.077	1.559%	78.398%
23.0	466.376	19.983	858.06	1.555%	80.267%
24.0	448.095	19.986	878.047	1.555%	82.137%
25.0	430.355	19.945	897.991	1.552%	84.003%
26.0	417.129	20.052	918.044	1.560%	85.878%
27.0	404.149	20.121	938.164	1.566%	87.761%
28.0	385.102	19.826	957.99	1.543%	89.615%
29.0	335.855	17.856	975.846	1.390%	91.285%
30.0	272.820	14.959	990.805	1.164%	92.685%
31.0	189.267	10.690	1001.494	.832%	93.685%
32.0	108.204	6.288	1007.782	.489%	94.273%
33.0	58.662	3.504	1011.286	.273%	94.601%
34.0	38.988	2.391	1013.677	.186%	94.824%
35.0	35.213	2.215	1015.891	.172%	95.032%
36.0	32.302	2.082	1017.974	.162%	95.226%
37.0	29.412	1.941	1019.915	.151%	95.408%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	26.909	1.817	1021.731	.141%	95.578%
39.0	25.425	1.755	1023.486	.137%	95.742%
40.0	24.138	1.701	1025.187	.132%	95.901%
41.0	23.140	1.665	1026.852	.130%	96.057%
42.0	22.191	1.628	1028.48	.127%	96.209%
43.0	20.995	1.570	1030.051	.122%	96.356%
44.0	19.983	1.522	1031.573	.118%	96.498%
45.0	19.013	1.474	1033.047	.115%	96.636%
46.0	17.937	1.415	1034.462	.110%	96.769%
47.0	16.995	1.363	1035.825	.106%	96.896%
48.0	16.158	1.317	1037.142	.102%	97.019%
49.0	15.265	1.263	1038.405	.098%	97.138%
50.0	14.555	1.223	1039.628	.095%	97.252%
51.0	13.915	1.186	1040.814	.092%	97.363%
52.0	13.184	1.139	1041.953	.089%	97.469%
53.0	12.551	1.099	1043.052	.086%	97.572%
54.0	12.009	1.065	1044.118	.083%	97.672%
55.0	11.496	1.033	1045.15	.080%	97.769%
56.0	11.039	1.004	1046.154	.078%	97.862%
57.0	10.603	0.975	1047.129	.076%	97.954%
58.0	10.097	0.939	1048.068	.073%	98.041%
59.0	9.717	0.913	1048.981	.071%	98.127%
60.0	9.408	0.893	1049.875	.070%	98.211%
61.0	9.098	0.873	1050.747	.068%	98.292%
62.0	8.803	0.852	1051.6	.066%	98.372%
63.0	8.613	0.842	1052.441	.065%	98.451%
64.0	8.515	0.839	1053.281	.065%	98.529%
65.0	8.135	0.809	1054.089	.063%	98.605%
66.0	7.284	0.730	1054.819	.057%	98.673%
67.0	6.623	0.669	1055.488	.052%	98.736%
68.0	6.420	0.653	1056.14	.051%	98.797%
69.0	6.307	0.646	1056.786	.050%	98.857%
70.0	6.230	0.642	1057.428	.050%	98.917%
71.0	6.131	0.636	1058.064	.049%	98.977%
72.0	6.061	0.632	1058.696	.049%	99.036%
73.0	5.991	0.628	1059.324	.049%	99.094%
74.0	5.941	0.626	1059.95	.049%	99.153%
75.0	5.871	0.622	1060.572	.048%	99.211%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.808	0.618	1061.19	.048%	99.269%
77.0	5.773	0.617	1061.807	.048%	99.327%
78.0	5.716	0.613	1062.42	.048%	99.384%
79.0	5.660	0.609	1063.029	.047%	99.441%
80.0	5.646	0.610	1063.639	.047%	99.498%
81.0	5.625	0.609	1064.248	.047%	99.555%
82.0	5.639	0.612	1064.861	.048%	99.612%
83.0	5.618	0.611	1065.472	.048%	99.670%
84.0	5.541	0.604	1066.076	.047%	99.726%
85.0	5.351	0.585	1066.661	.045%	99.781%
86.0	5.112	0.559	1067.22	.044%	99.833%
87.0	4.816	0.527	1067.748	.041%	99.882%
88.0	4.669	0.512	1068.259	.040%	99.930%
89.0	4.549	0.499	1068.758	.039%	99.977%
90.0	4.493	0.246	1069.004	.019%	100.000%

Zonal flux distribution table

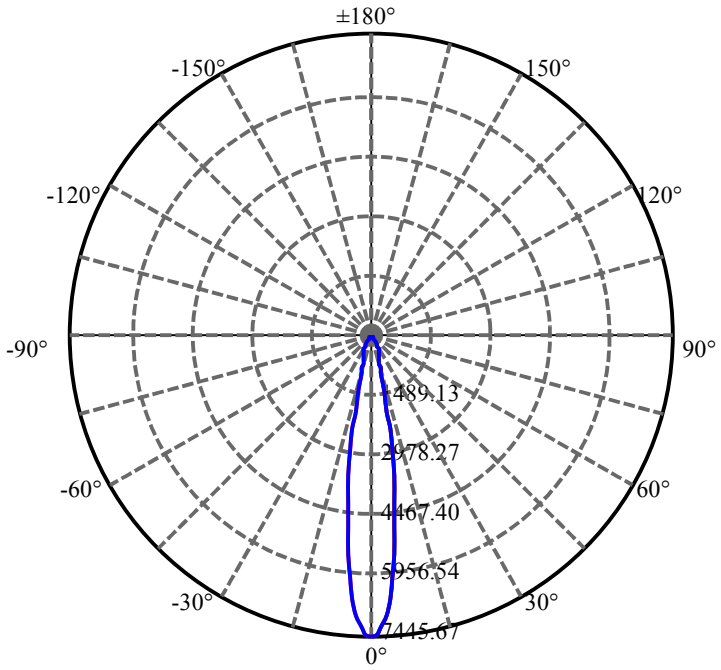
ZONAL LUMEN SUMMARY

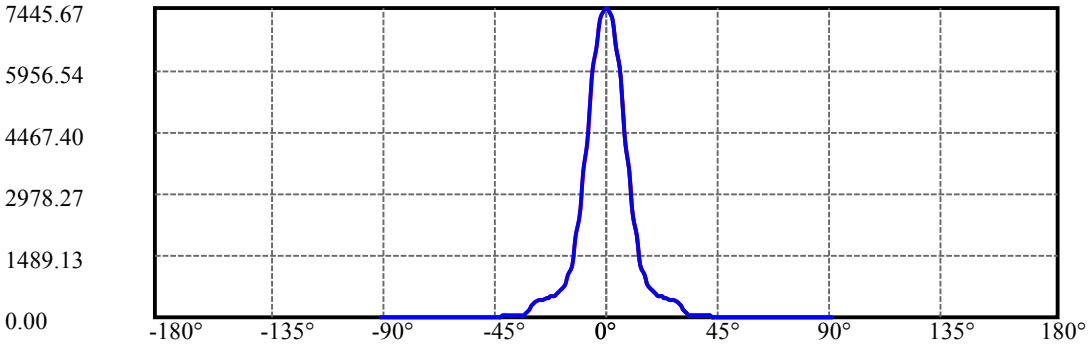
Zone	Lumens	%Lamp	%Fixt
0-30	990.80	77.11%	92.68%
0-40	1025.19	79.78%	95.90%
0-60	1049.87	81.70%	98.21%
0-90	1068.76	83.17%	99.98%
0-120	1068.76	83.17%	99.98%
0-180	1069.00	83.19%	100.00%
60-90	19.78	1.54%	1.85%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-22.86	855.20	66.55%	80.00%

ZONAL LUMEN SUMMARY

0-10	495.61
10-20	302.21
20-30	192.98
30-40	34.38
40-50	14.44
50-60	10.25
60-70	7.55
70-80	6.21
80-90	5.12
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:

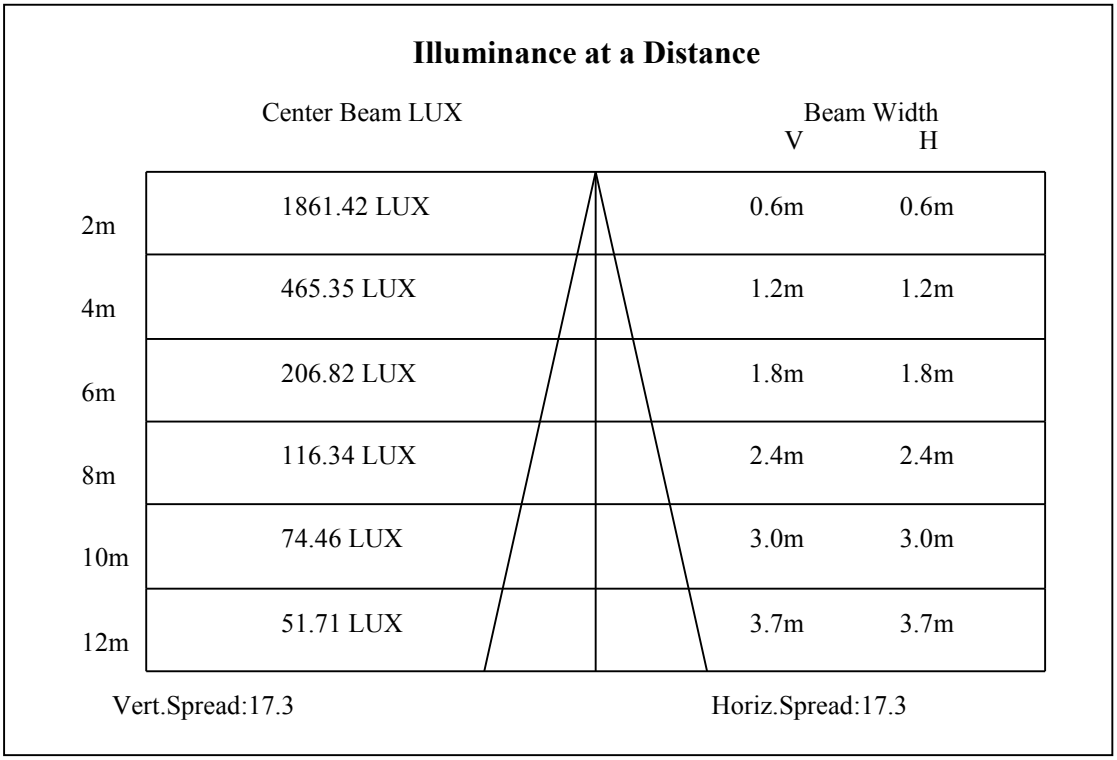
C90/C270:

Field angle(10%Imax):C0/180Left:16.8 Right:16.8
:C90/270Left:16.8 Right:16.8

Beam Angle(50%Imax):C0/180Left:8.7 Right:8.7
:C90/270Left:8.7 Right:8.7

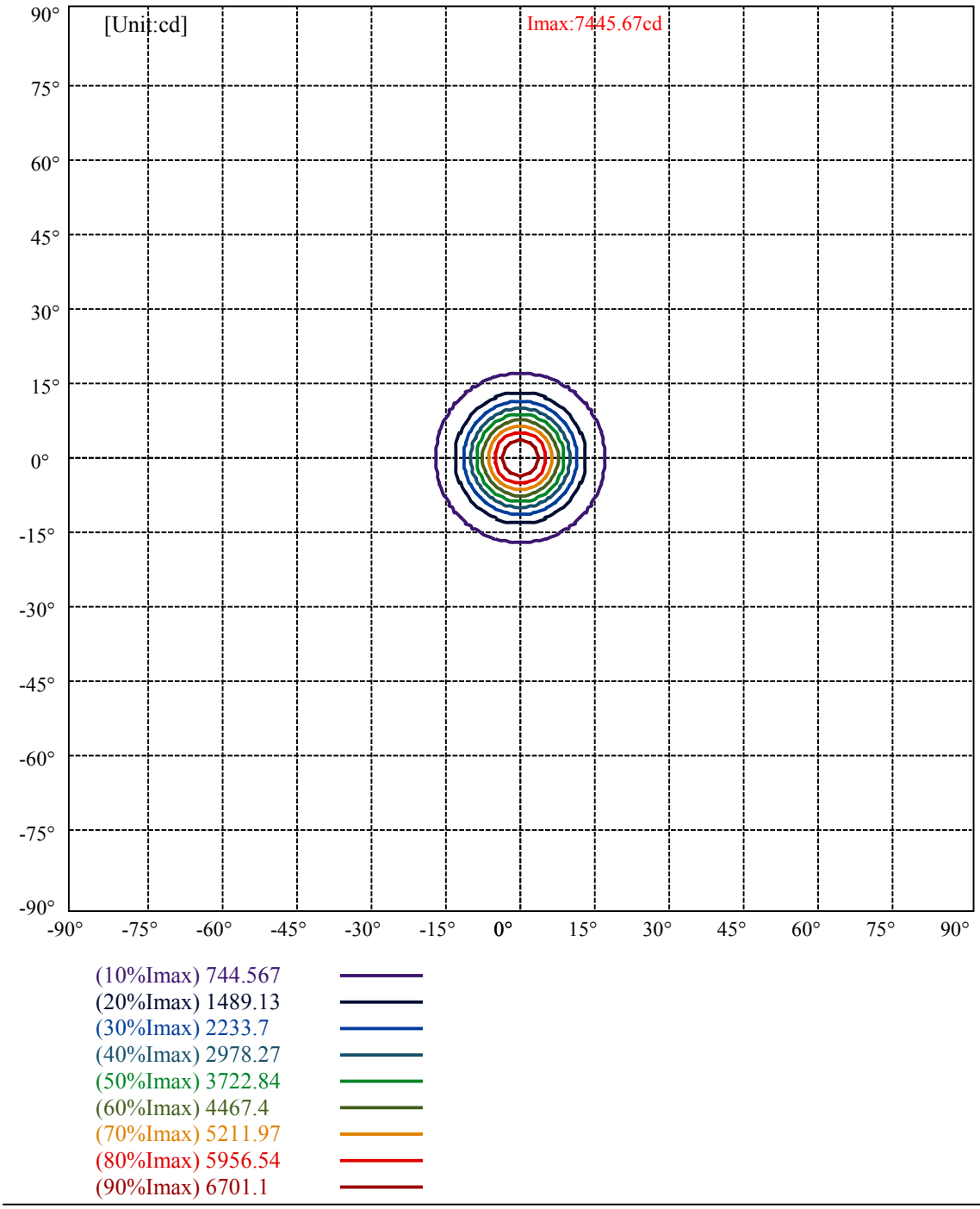
Equipment: GMS1980 Date: 2019/1/18 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

Lux distance Curve



Equipment: GMS1980 Date: 2019/1/18 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

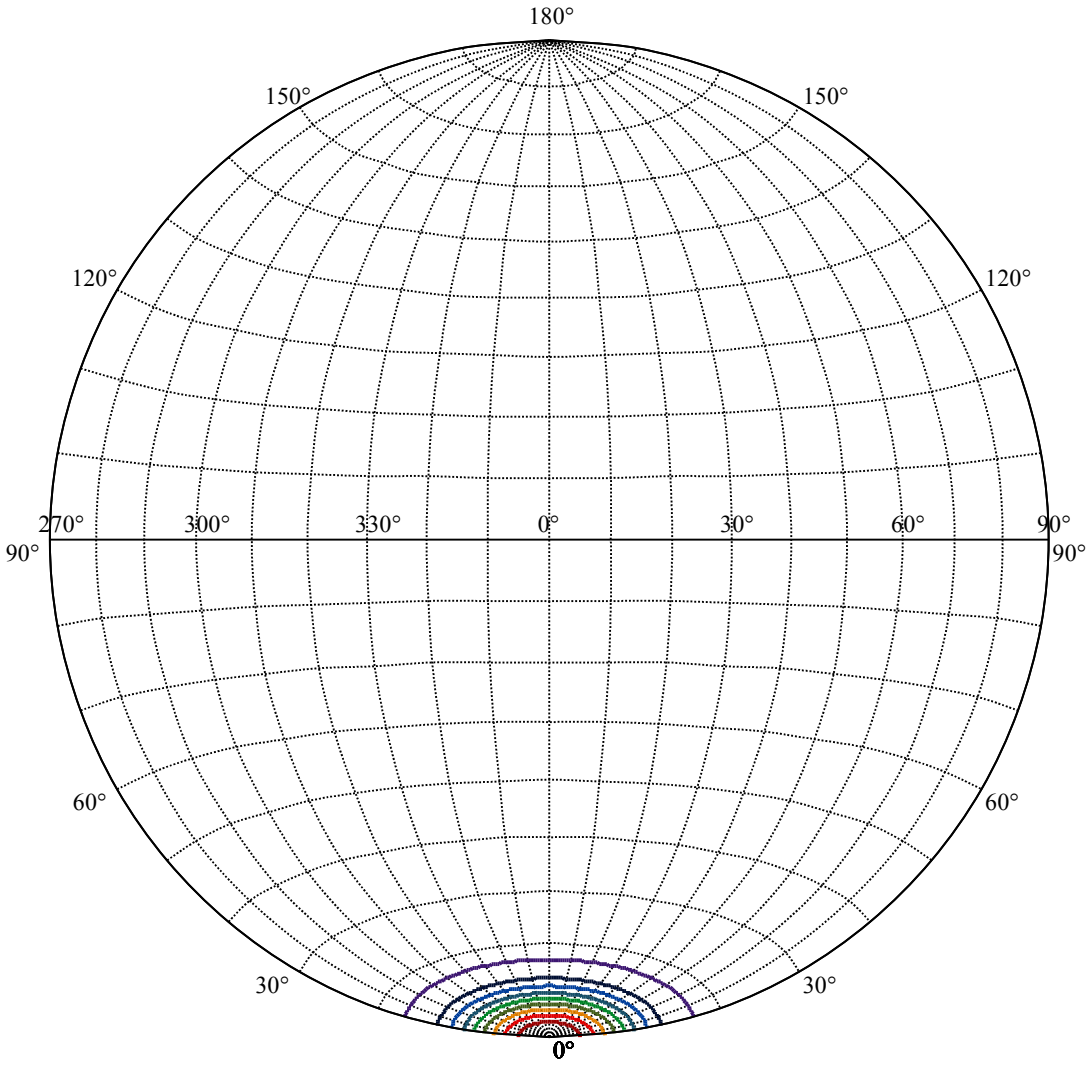


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/18
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



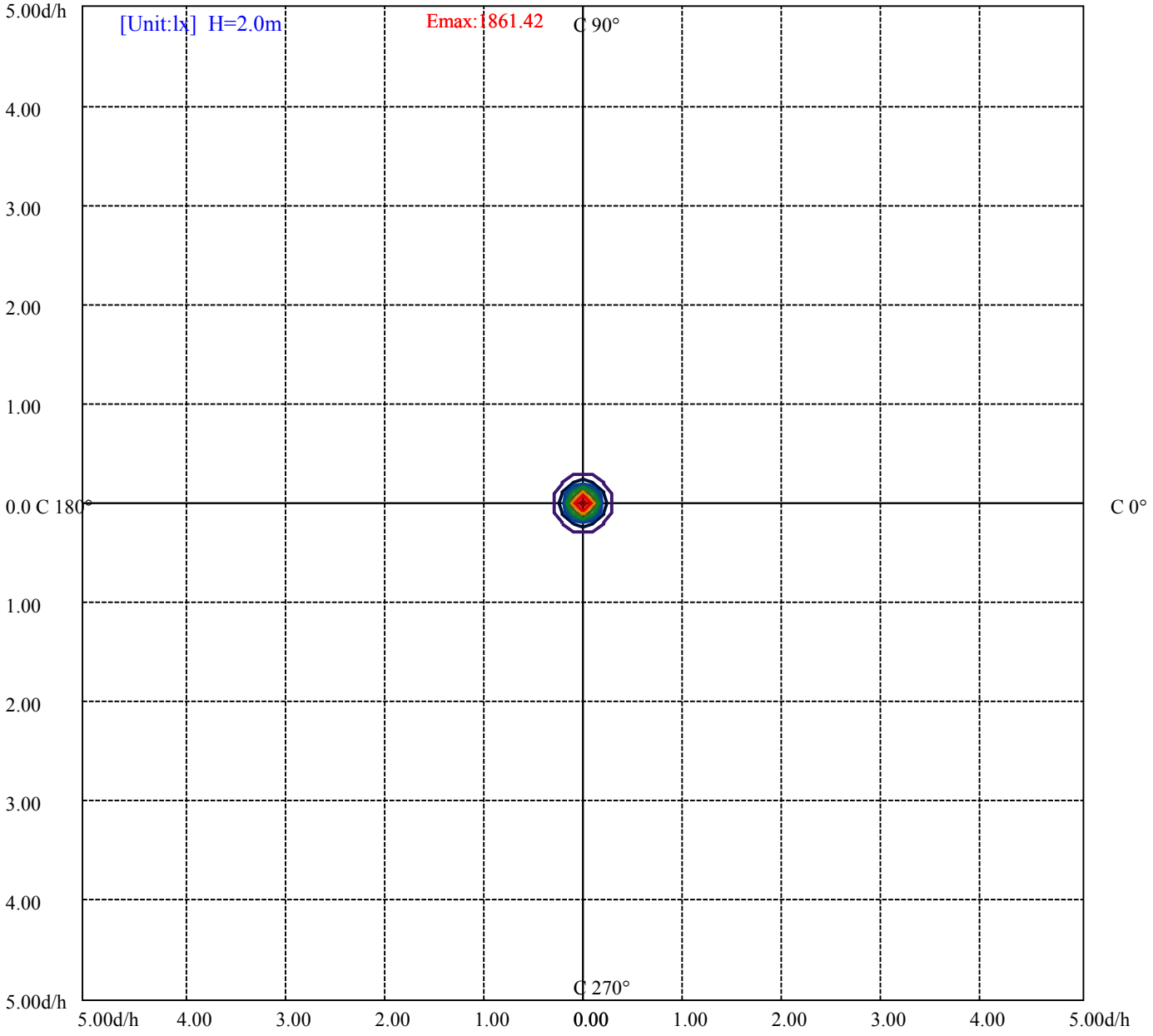
House [Unit:cd] Road

Imax:7445.67

(10%Imax) 744.567
(20%Imax) 1489.13
(30%Imax) 2233.7
(40%Imax) 2978.27
(50%Imax) 3722.84
(60%Imax) 4467.4
(70%Imax) 5211.97
(80%Imax) 5956.54
(90%Imax) 6701.1

Equipment: GMS1980 Date: 2019/1/18 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

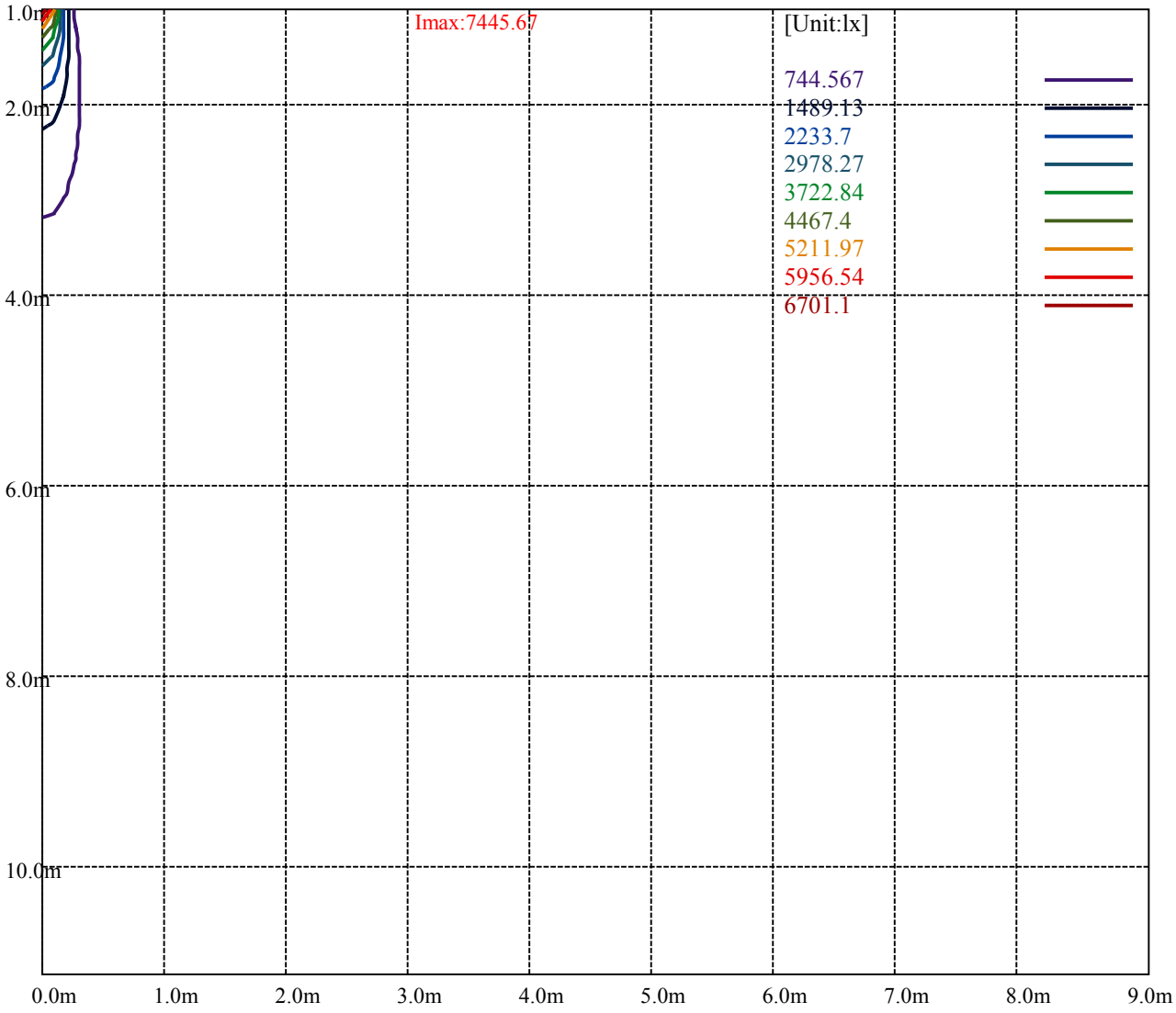
ISO illuminance diagram



(10%Emax) 186.1415
(20%Emax) 372.2825
(30%Emax) 558.425
(40%Emax) 744.5675
(50%Emax) 930.7075
(60%Emax) 1116.85
(70%Emax) 1302.99
(80%Emax) 1489.132
(90%Emax) 1675.275

Equipment: GMS1980
Temperature(°C): 10.0
Date: 2019/1/18
Humidity(%): 65.0%
Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/18
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

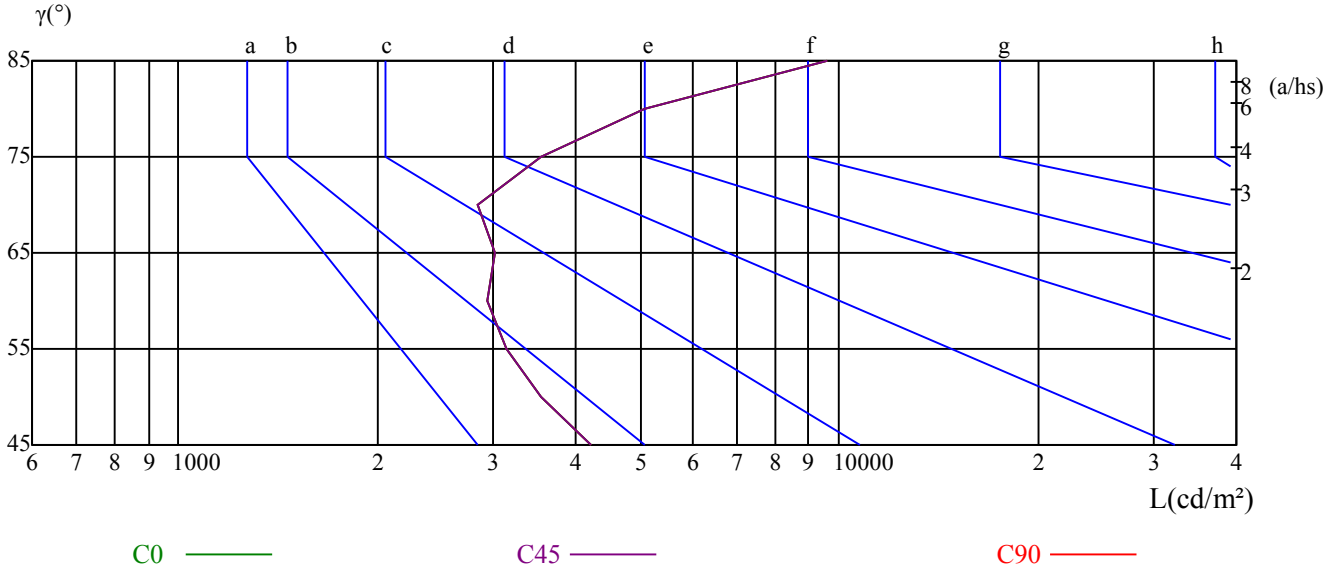
γ	45	50	55	60	65	70	75	80	85
C0	4201	3538	3132	2940	3008	2846	3544	5080	9593
C45	4201	3538	3132	2940	3008	2846	3544	5080	9593
C90	4201	3538	3132	2940	3008	2846	3544	5080	9593

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3008	3008	3008	3544	3544	3544	9593	9593	9593

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

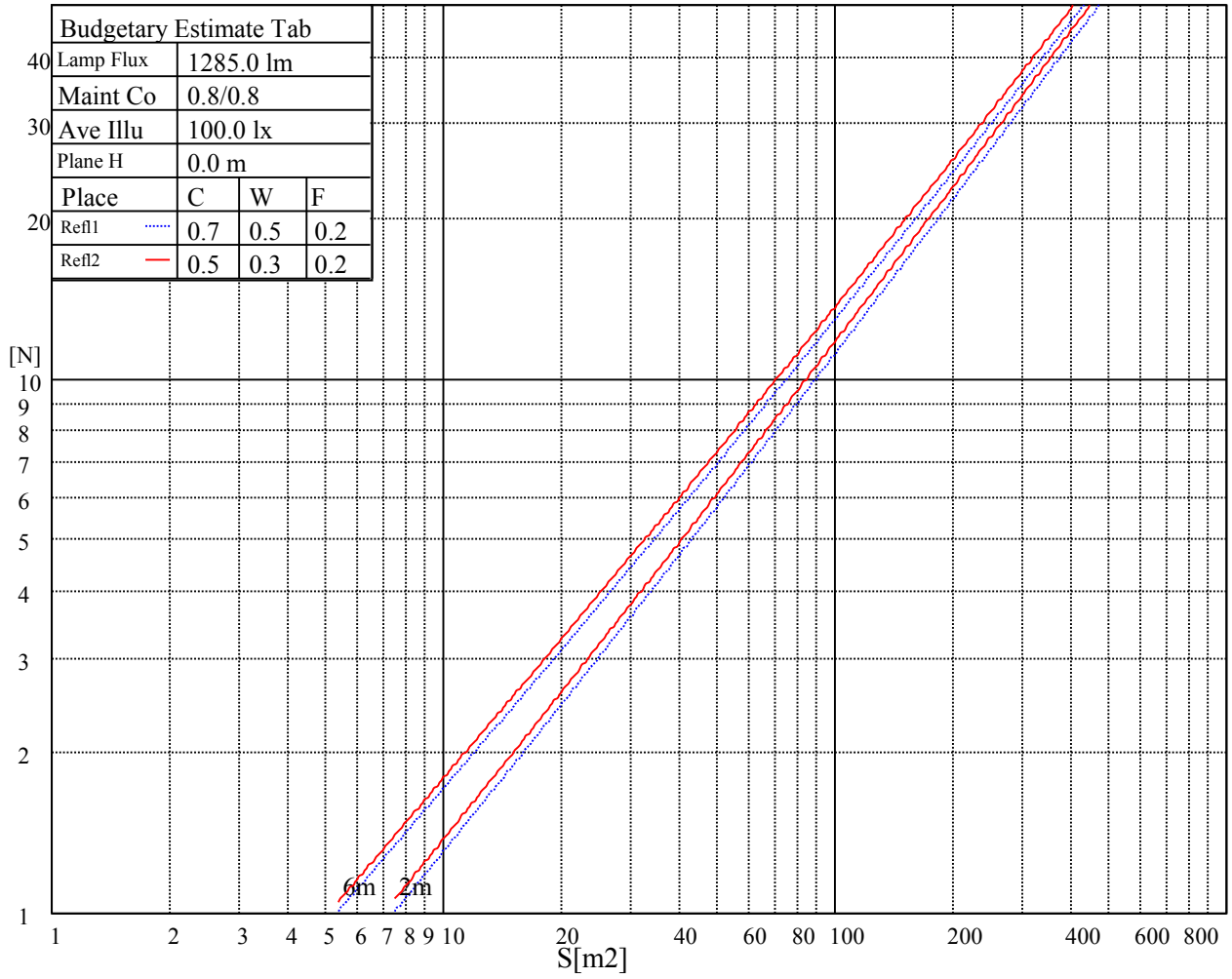


UGR Glare

Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	6.87	7.81	7.24	8.12	8.44	6.83	7.77	7.20	8.08	8.40
	3H	8.76	9.59	9.15	9.93	10.30	8.68	9.51	9.07	9.85	10.22
	4H	9.86	10.62	10.26	10.98	11.37	9.75	10.52	10.16	10.87	11.26
	6H	11.26	11.96	11.68	12.34	12.74	11.13	11.83	11.55	12.21	12.61
	8H	12.09	12.75	12.53	13.14	13.56	11.96	12.61	12.39	13.01	13.42
	12H	13.51	14.14	13.95	14.53	14.96	13.37	14.00	13.81	14.38	14.82
4H	2H	7.45	8.22	7.86	8.58	8.97	7.42	8.19	7.83	8.55	8.94
	3H	9.57	10.20	9.98	10.61	11.02	9.50	10.13	9.92	10.54	10.95
	4H	10.87	11.44	11.31	11.86	12.31	10.78	11.34	11.22	11.77	12.22
	6H	12.40	12.89	12.88	13.34	13.81	12.30	12.78	12.77	13.23	13.71
	8H	13.39	13.84	13.87	14.30	14.77	13.28	13.73	13.75	14.18	14.65
	12H	14.82	15.21	15.31	15.70	16.17	14.69	15.08	15.18	15.57	16.04
8H	4H	11.37	11.82	11.85	12.27	12.75	11.29	11.74	11.77	12.19	12.67
	6H	13.24	13.59	13.75	14.10	14.58	13.15	13.50	13.66	14.01	14.49
	8H	14.43	14.75	14.97	15.27	15.77	14.33	14.65	14.87	15.17	15.67
	12H	16.10	16.37	16.63	16.87	17.45	15.99	16.26	16.51	16.76	17.34
12H	4H	11.51	11.89	12.00	12.38	12.86	11.44	11.82	11.93	12.31	12.79
	6H	13.72	13.81	14.03	14.28	14.83	13.64	13.73	13.95	14.20	14.75
	8H	14.82	15.09	15.34	15.59	16.17	14.73	15.00	15.26	15.50	16.08

Variation with the observer position at spacings:		
S = 1.0H	1.7/-1.0	1.7/-1.0
S = 1.5H	1.9/-1.1	1.9/-1.1
S = 2.0H	2.2/-1.0	2.2/-1.0
Standard tables:	BKBF	BKBF
Uncorrected UGR	-1.7	-1.7

Budgetary Estimate Table

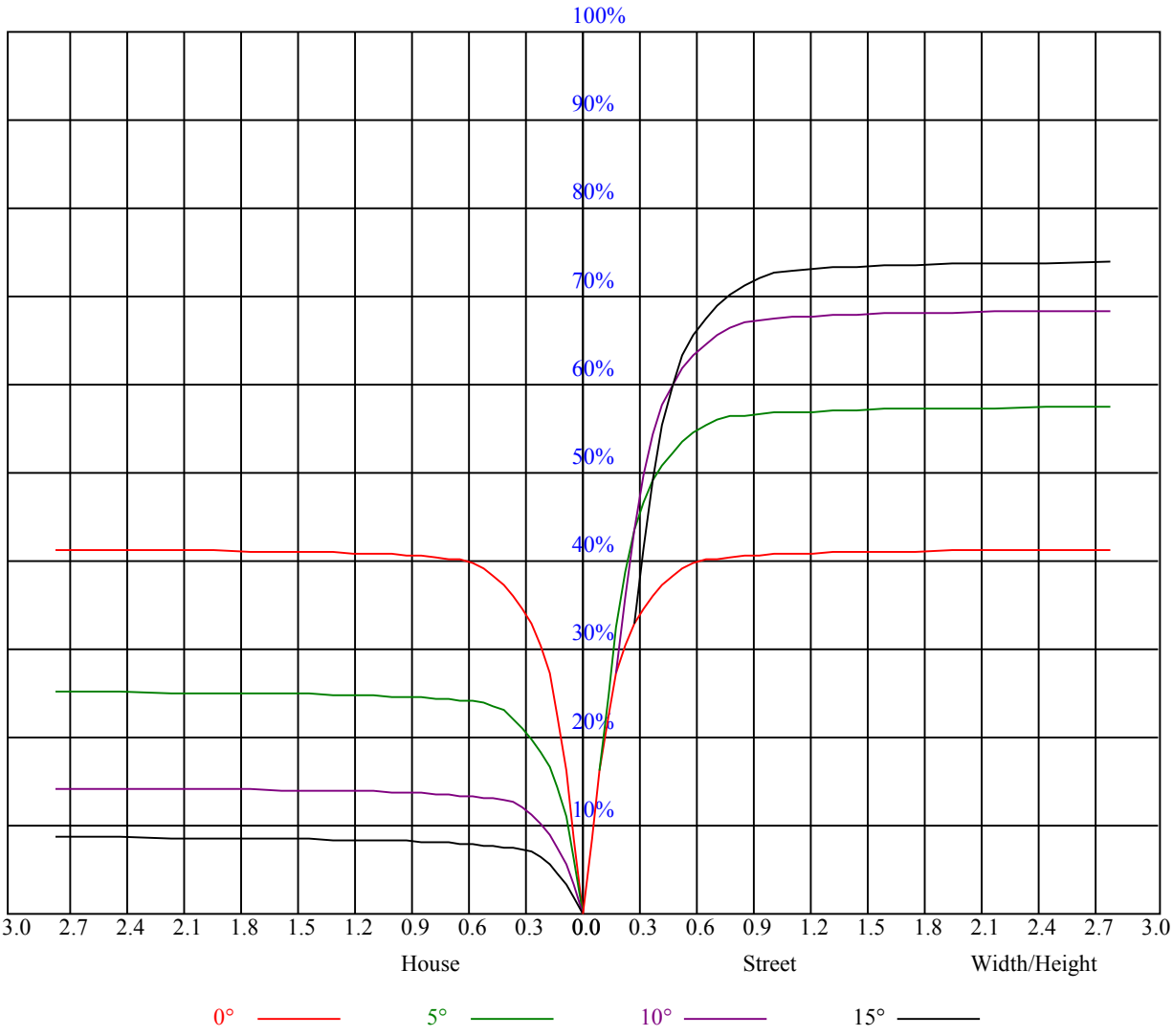


Equipment: GMS1980 Date: 2019/1/18 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	0.99	0.99	0.99	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.83
1	0.94	0.92	0.90	0.92	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.84	0.83	0.82	0.81	0.80
2	0.89	0.87	0.84	0.88	0.85	0.83	0.85	0.83	0.82	0.83	0.81	0.80	0.81	0.79	0.78	0.77
3	0.85	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.80	0.78	0.77	0.79	0.77	0.76	0.74
4	0.82	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.77	0.75	0.73	0.72
5	0.79	0.76	0.73	0.79	0.75	0.73	0.77	0.74	0.72	0.76	0.74	0.72	0.75	0.73	0.71	0.70
6	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.70	0.73	0.71	0.69	0.68
7	0.74	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.70	0.68	0.71	0.69	0.67	0.67
8	0.72	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.70	0.67	0.66	0.65
9	0.70	0.67	0.65	0.70	0.67	0.65	0.69	0.67	0.65	0.69	0.66	0.64	0.68	0.66	0.64	0.63
10	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.67	0.65	0.63	0.67	0.65	0.63	0.62

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/1/18	Operator: NT07
Temperature(°C): 10.0	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	7419.94	7446.94	7369.88	7155.56	6829.88	6330.94	5734.69	5158.69	4575.38
45.0	7459.31	7428.94	7255.69	7027.31	6552.00	6009.75	5456.25	4798.13	4207.50
90.0	7453.13	7357.50	7166.81	6832.69	6370.88	5866.88	5298.19	4541.63	3924.56
135.0	7450.31	7405.88	7254.56	6975.00	6602.06	6069.94	5447.81	4858.31	4249.13
180.0	7419.94	7292.81	7075.13	6702.75	6206.06	5678.44	5106.94	4357.13	3750.19
225.0	7459.31	7393.50	7232.06	6845.63	6501.38	6035.06	5427.56	4773.94	4181.06
270.0	7453.13	7433.44	7295.06	7026.19	6671.25	6162.75	5633.44	4993.88	4408.31
315.0	7450.31	7390.13	7227.00	6914.81	6461.44	5957.44	5394.38	4658.06	4058.44
360.0	7419.94	7446.94	7369.88	7155.56	6829.88	6330.94	5734.69	5158.69	4575.38

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3843.00	3271.50	2738.81	2202.75	1755.56	1426.50	1143.56	936.00	808.31
45.0	3546.56	2917.69	2399.63	1953.56	1505.25	1226.25	1018.13	842.63	747.00
90.0	3325.50	2640.94	2164.50	1762.88	1389.94	1103.46	914.91	763.93	673.43
135.0	3505.50	2943.56	2423.81	1929.38	1526.06	1240.31	1004.06	840.94	740.25
180.0	3162.38	2446.31	2049.75	1663.31	1099.97	1048.33	878.23	756.90	663.24
225.0	3524.06	2890.69	2375.44	1874.25	1508.63	1101.66	977.29	807.98	704.08
270.0	3749.63	3124.69	2599.88	2127.38	1634.06	1314.00	1073.25	851.63	734.63
315.0	3467.81	2796.75	2306.81	1877.63	1481.63	1119.71	974.48	802.29	718.37
360.0	3843.00	3271.50	2738.81	2202.75	1755.56	1426.50	1143.56	936.00	808.31

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	709.88	645.75	591.75	548.44	517.50	488.81	464.06	444.94	429.75
45.0	676.69	615.38	568.13	532.13	502.31	479.25	460.69	442.69	429.75
90.0	601.03	544.50	506.53	475.37	451.01	435.83	421.48	399.71	384.19
135.0	660.38	608.63	563.06	520.88	492.75	466.31	442.69	427.50	417.38
180.0	598.67	556.76	521.89	492.69	470.87	449.94	434.42	419.57	407.14
225.0	623.42	564.64	526.56	493.93	470.14	455.40	444.60	432.62	420.53
270.0	658.69	597.38	551.81	525.94	499.50	474.75	453.38	432.56	415.69
315.0	646.37	588.15	557.10	526.05	498.38	480.71	463.44	443.25	432.62
360.0	709.88	645.75	591.75	548.44	517.50	488.81	464.06	444.94	429.75

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	415.69	406.13	383.06	325.13	290.81	159.30	83.59	42.47	37.07
45.0	417.38	400.50	355.50	288.00	191.19	114.58	55.69	37.74	34.65
90.0	370.86	346.44	292.11	229.84	155.93	86.63	51.24	41.06	37.13
135.0	406.13	389.25	343.13	301.50	172.80	104.57	61.26	39.09	35.66
180.0	394.59	364.16	290.31	216.62	141.58	67.95	41.40	36.17	33.13
225.0	405.68	382.61	323.61	253.29	175.33	104.57	56.59	39.88	36.00
270.0	400.50	389.25	354.94	296.44	207.00	133.76	71.27	38.93	34.88
315.0	422.38	402.47	344.19	271.74	179.49	94.28	48.26	36.56	33.19
360.0	415.69	406.13	383.06	325.13	290.81	159.30	83.59	42.47	37.07

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	33.69	31.11	27.84	25.88	24.75	23.63	22.44	21.66	20.64
45.0	32.06	28.80	26.27	25.03	23.91	22.84	21.83	20.76	19.80
90.0	33.58	30.21	27.73	25.82	24.36	23.34	22.39	20.93	20.03
135.0	33.36	30.21	27.51	26.21	24.64	23.57	22.67	21.43	20.36
180.0	30.43	27.96	26.04	24.86	23.57	22.73	21.94	20.76	19.41
225.0	32.63	29.48	27.17	25.54	24.13	23.12	22.22	20.87	19.91
270.0	32.18	29.64	26.89	25.43	24.19	23.18	22.28	21.09	20.08
315.0	30.49	27.90	25.82	24.64	23.57	22.73	21.77	20.48	19.63
360.0	33.69	31.11	27.84	25.88	24.75	23.63	22.44	21.66	20.64

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	19.46	18.51	17.61	16.88	15.75	15.02	14.29	13.67	12.94
45.0	18.84	17.78	16.93	16.14	15.30	14.79	14.18	13.33	12.54
90.0	19.01	17.83	17.04	16.14	15.36	14.68	14.01	13.05	12.60
135.0	19.58	18.23	17.33	16.48	15.53	14.79	14.12	13.39	12.60
180.0	18.56	17.66	16.59	15.64	14.96	14.01	13.39	12.77	12.26
225.0	18.96	17.78	16.76	15.86	15.02	14.29	13.73	12.99	12.43
270.0	19.01	17.94	17.04	16.31	15.19	14.63	14.06	13.28	12.66
315.0	18.68	17.78	16.65	15.81	15.02	14.23	13.56	12.99	12.38
360.0	19.46	18.51	17.61	16.88	15.75	15.02	14.29	13.67	12.94

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.26	11.64	11.14	10.74	10.35	9.96	9.51	9.28	8.94
45.0	11.93	11.36	10.74	10.29	9.96	9.62	9.39	9.11	8.78
90.0	12.04	11.36	10.97	10.58	9.96	9.73	9.45	9.06	8.83
135.0	12.09	11.53	11.14	10.74	10.24	9.84	9.51	9.28	8.94
180.0	11.70	11.19	10.74	10.35	9.84	9.45	9.34	9.00	8.66
225.0	11.93	11.59	11.14	10.63	10.01	9.68	9.28	8.89	8.61
270.0	12.32	11.81	11.36	10.91	10.35	9.84	9.45	9.06	8.83
315.0	11.81	11.48	11.08	10.58	10.07	9.62	9.34	9.11	8.83
360.0	12.26	11.64	11.14	10.74	10.35	9.96	9.51	9.28	8.94

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	8.61	8.38	8.38	7.82	6.75	6.41	6.30	6.19	6.08
45.0	8.61	8.44	8.16	7.14	6.53	6.41	6.30	6.24	6.13
90.0	8.66	8.49	7.65	6.98	6.64	6.53	6.41	6.36	6.24
135.0	8.72	8.55	8.21	7.20	6.53	6.36	6.24	6.19	6.08
180.0	8.49	8.33	7.59	6.86	6.47	6.30	6.19	6.13	6.02
225.0	8.38	8.72	8.27	7.31	6.64	6.41	6.30	6.19	6.13
270.0	8.72	8.61	8.66	7.76	6.86	6.58	6.47	6.41	6.30
315.0	8.72	8.61	8.16	7.20	6.58	6.36	6.24	6.13	6.08
360.0	8.61	8.38	8.38	7.82	6.75	6.41	6.30	6.19	6.08

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.08	5.96	5.91	5.85	5.79	5.74	5.68	5.63	5.57
45.0	6.08	6.02	5.96	5.91	5.79	5.74	5.63	5.57	5.57
90.0	6.24	6.13	6.13	6.08	6.02	6.02	5.96	5.85	5.79
135.0	5.96	5.91	5.85	5.79	5.79	5.74	5.68	5.68	5.63
180.0	5.96	5.91	5.85	5.79	5.74	5.68	5.63	5.63	5.63
225.0	6.02	5.96	5.91	5.79	5.74	5.74	5.68	5.63	5.68
270.0	6.19	6.13	6.08	5.96	5.91	5.85	5.85	5.74	5.74
315.0	5.96	5.91	5.85	5.79	5.68	5.68	5.63	5.57	5.57
360.0	6.08	5.96	5.91	5.85	5.79	5.74	5.68	5.63	5.57

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.46	5.46	5.40	5.34	5.29	5.23	5.01	4.78	4.67
45.0	5.51	5.46	5.34	5.23	5.12	5.01	4.78	4.67	4.56
90.0	5.74	5.57	5.40	5.34	5.23	5.01	4.73	4.56	4.50
135.0	5.63	5.68	5.74	5.63	5.46	5.18	4.78	4.61	4.50
180.0	5.68	5.91	5.91	5.68	5.29	4.95	4.73	4.61	4.44
225.0	5.79	5.91	5.96	5.79	5.46	5.12	4.89	4.73	4.61
270.0	5.68	5.63	5.68	5.79	5.57	5.18	4.78	4.67	4.56
315.0	5.51	5.51	5.51	5.51	5.40	5.23	4.84	4.73	4.56
360.0	5.46	5.46	5.40	5.34	5.29	5.23	5.01	4.78	4.67

Intensity data(cd)

C/γ(°)	90.0
0.0	4.50
45.0	4.56
90.0	4.50
135.0	4.50
180.0	4.44
225.0	4.50
270.0	4.44
315.0	4.50
360.0	4.50