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NATA

LumCAT: 2-1794-N
Luminaire: 92.70.131.00
Report No: NATA0100
Test No: GC2019011806
LampCAT: CITIZEN CLU710
Lamp flux(lm): 1285.0
Number of Lamps: 1
Length(mm): 69
Phm Type: C

Voltage(V): 35.3000
Current(A): 0.3000
Power (W): 10.5900
PF: 0.0000
Ballast type: DC
Width(mm): 69
Height(mm): 0

Photometric Results

Lumens(lm): 1080.36
Efficiency(%): 84.07%
Lumens(lm)/Power(W): 102.11
Central intensity(cd): 4356.844
Maximum intensity(cd): 4356.844
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.1
[C90/270]Total=24.1
Field angle(10%Imax): [C0/180]Total=55.1
[C90/270]Total=55.1
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.40 C90_270=0.40
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.15%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.971%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4356.844	1.042	1.042	.081%	.096%
1.0	4353.328	8.332	9.374	.648%	.868%
2.0	4326.961	16.560	25.934	1.289%	2.400%
3.0	4265.367	24.480	50.414	1.905%	4.666%
4.0	4166.227	31.870	82.283	2.480%	7.616%
5.0	3997.336	38.205	120.488	2.973%	11.153%
6.0	3798.000	43.535	164.023	3.388%	15.182%
7.0	3573.633	47.759	211.783	3.717%	19.603%
8.0	3302.508	50.402	262.185	3.922%	24.268%
9.0	3022.383	51.848	314.033	4.035%	29.067%
10.0	2739.375	52.164	366.197	4.059%	33.896%
11.0	2446.594	51.193	417.391	3.984%	38.634%
12.0	2185.383	49.826	467.217	3.878%	43.246%
13.0	1916.367	47.274	514.49	3.679%	47.622%
14.0	1655.086	43.908	558.399	3.417%	51.686%
15.0	1443.445	40.968	599.367	3.188%	55.478%
16.0	1218.797	36.840	636.207	2.867%	58.888%
17.0	1061.163	34.023	670.23	2.648%	62.038%
18.0	920.327	31.187	701.417	2.427%	64.924%
19.0	810.091	28.922	730.339	2.251%	67.601%
20.0	710.177	26.636	756.975	2.073%	70.067%
21.0	637.805	25.065	782.04	1.951%	72.387%
22.0	589.409	24.213	806.253	1.884%	74.628%
23.0	548.733	23.512	829.765	1.830%	76.804%
24.0	516.382	23.032	852.797	1.792%	78.936%
25.0	490.029	22.710	875.508	1.767%	81.038%
26.0	466.334	22.418	897.925	1.745%	83.113%
27.0	446.189	22.214	920.139	1.729%	85.170%
28.0	426.895	21.978	942.116	1.710%	87.204%
29.0	394.805	20.990	963.106	1.633%	89.147%
30.0	336.080	18.427	981.533	1.434%	90.852%
31.0	271.505	15.334	996.868	1.193%	92.272%
32.0	186.729	10.851	1007.719	.844%	93.276%
33.0	115.446	6.895	1014.614	.537%	93.914%
34.0	69.110	4.238	1018.852	.330%	94.307%
35.0	46.891	2.949	1021.801	.230%	94.580%
36.0	40.908	2.637	1024.438	.205%	94.824%
37.0	37.280	2.460	1026.899	.191%	95.051%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	33.905	2.289	1029.188	.178%	95.263%
39.0	30.565	2.109	1031.297	.164%	95.459%
40.0	28.259	1.992	1033.289	.155%	95.643%
41.0	26.276	1.890	1035.179	.147%	95.818%
42.0	24.279	1.782	1036.961	.139%	95.983%
43.0	22.620	1.692	1038.652	.132%	96.139%
44.0	21.206	1.615	1040.268	.126%	96.289%
45.0	19.772	1.533	1041.801	.119%	96.431%
46.0	18.612	1.468	1043.269	.114%	96.567%
47.0	17.536	1.406	1044.676	.109%	96.697%
48.0	16.601	1.353	1046.028	.105%	96.822%
49.0	15.771	1.305	1047.334	.102%	96.943%
50.0	14.977	1.258	1048.592	.098%	97.059%
51.0	14.259	1.215	1049.807	.095%	97.172%
52.0	13.676	1.182	1050.989	.092%	97.281%
53.0	13.155	1.152	1052.141	.090%	97.388%
54.0	12.600	1.118	1053.259	.087%	97.491%
55.0	12.164	1.093	1054.351	.085%	97.592%
56.0	11.742	1.068	1055.419	.083%	97.691%
57.0	11.299	1.039	1056.458	.081%	97.787%
58.0	10.920	1.015	1057.474	.079%	97.881%
59.0	10.519	0.989	1058.462	.077%	97.973%
60.0	10.139	0.963	1059.425	.075%	98.062%
61.0	9.773	0.937	1060.363	.073%	98.149%
62.0	9.422	0.912	1061.275	.071%	98.233%
63.0	9.127	0.892	1062.167	.069%	98.316%
64.0	8.824	0.870	1063.036	.068%	98.396%
65.0	8.550	0.850	1063.886	.066%	98.475%
66.0	8.332	0.835	1064.721	.065%	98.552%
67.0	8.121	0.820	1065.541	.064%	98.628%
68.0	7.917	0.805	1066.346	.063%	98.703%
69.0	7.734	0.792	1067.137	.062%	98.776%
70.0	7.545	0.777	1067.915	.061%	98.848%
71.0	7.376	0.765	1068.68	.060%	98.919%
72.0	7.193	0.750	1069.43	.058%	98.988%
73.0	7.031	0.737	1070.167	.057%	99.056%
74.0	6.870	0.724	1070.891	.056%	99.123%
75.0	6.694	0.709	1071.6	.055%	99.189%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.532	0.695	1072.295	.054%	99.253%
77.0	6.384	0.682	1072.978	.053%	99.317%
78.0	6.230	0.668	1073.646	.052%	99.378%
79.0	6.068	0.653	1074.299	.051%	99.439%
80.0	5.941	0.642	1074.941	.050%	99.498%
81.0	5.794	0.628	1075.568	.049%	99.556%
82.0	5.667	0.615	1076.184	.048%	99.613%
83.0	5.527	0.602	1076.785	.047%	99.669%
84.0	5.379	0.587	1077.372	.046%	99.723%
85.0	5.252	0.574	1077.946	.045%	99.776%
86.0	5.105	0.558	1078.504	.043%	99.828%
87.0	4.964	0.544	1079.048	.042%	99.878%
88.0	4.859	0.532	1079.58	.041%	99.928%
89.0	4.774	0.523	1080.104	.041%	99.976%
90.0	4.704	0.258	1080.361	.020%	100.000%

Zonal flux distribution table

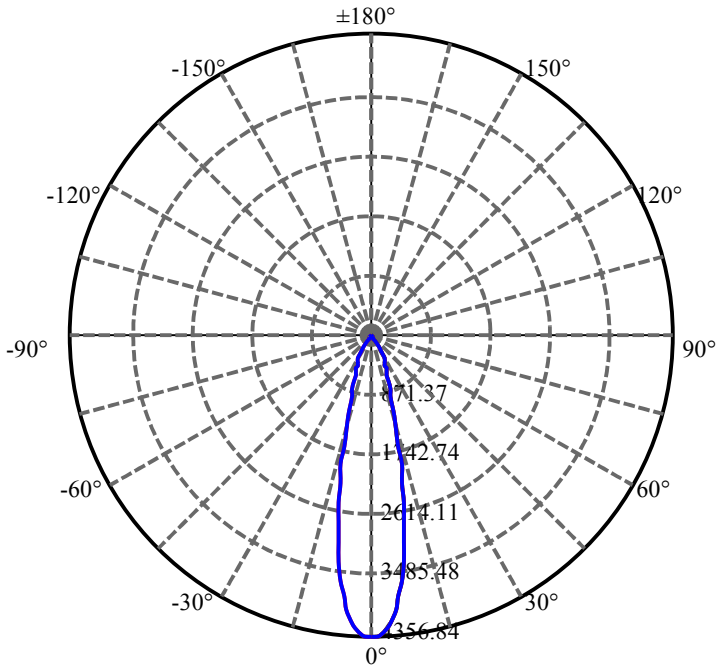
ZONAL LUMEN SUMMARY

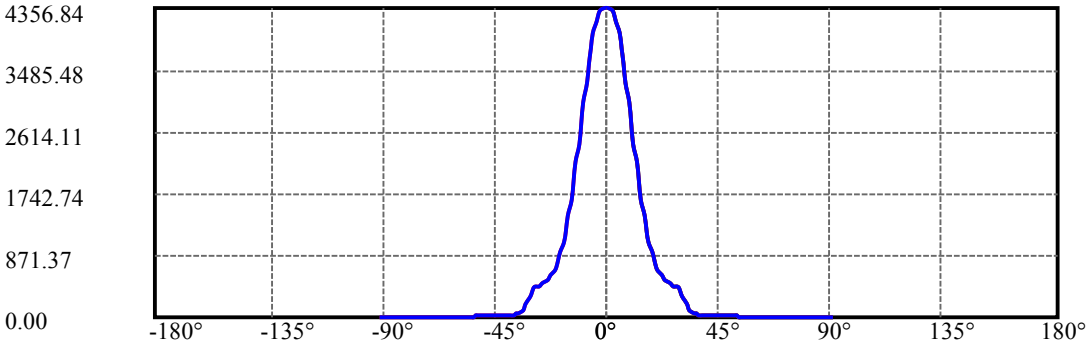
Zone	Lumens	%Lamp	%Fixt
0-30	981.53	76.38%	90.85%
0-40	1033.29	80.41%	95.64%
0-60	1059.43	82.45%	98.06%
0-90	1080.10	84.05%	99.98%
0-120	1080.10	84.05%	99.98%
0-180	1080.36	84.07%	100.00%
60-90	21.64	1.68%	2.00%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.51	864.29	67.26%	80.00%

ZONAL LUMEN SUMMARY

0-10	366.20
10-20	390.78
20-30	224.56
30-40	51.76
40-50	15.30
50-60	10.83
60-70	8.49
70-80	7.03
80-90	5.16
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):

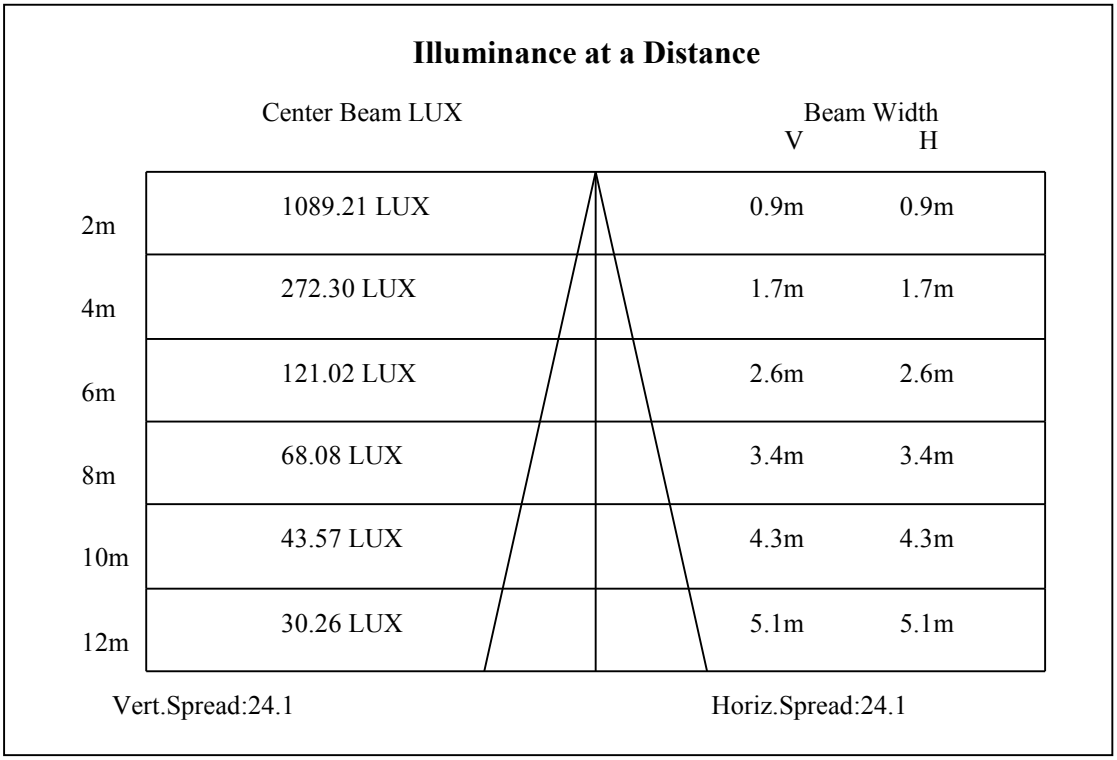
C0/C180:

C90/C270:

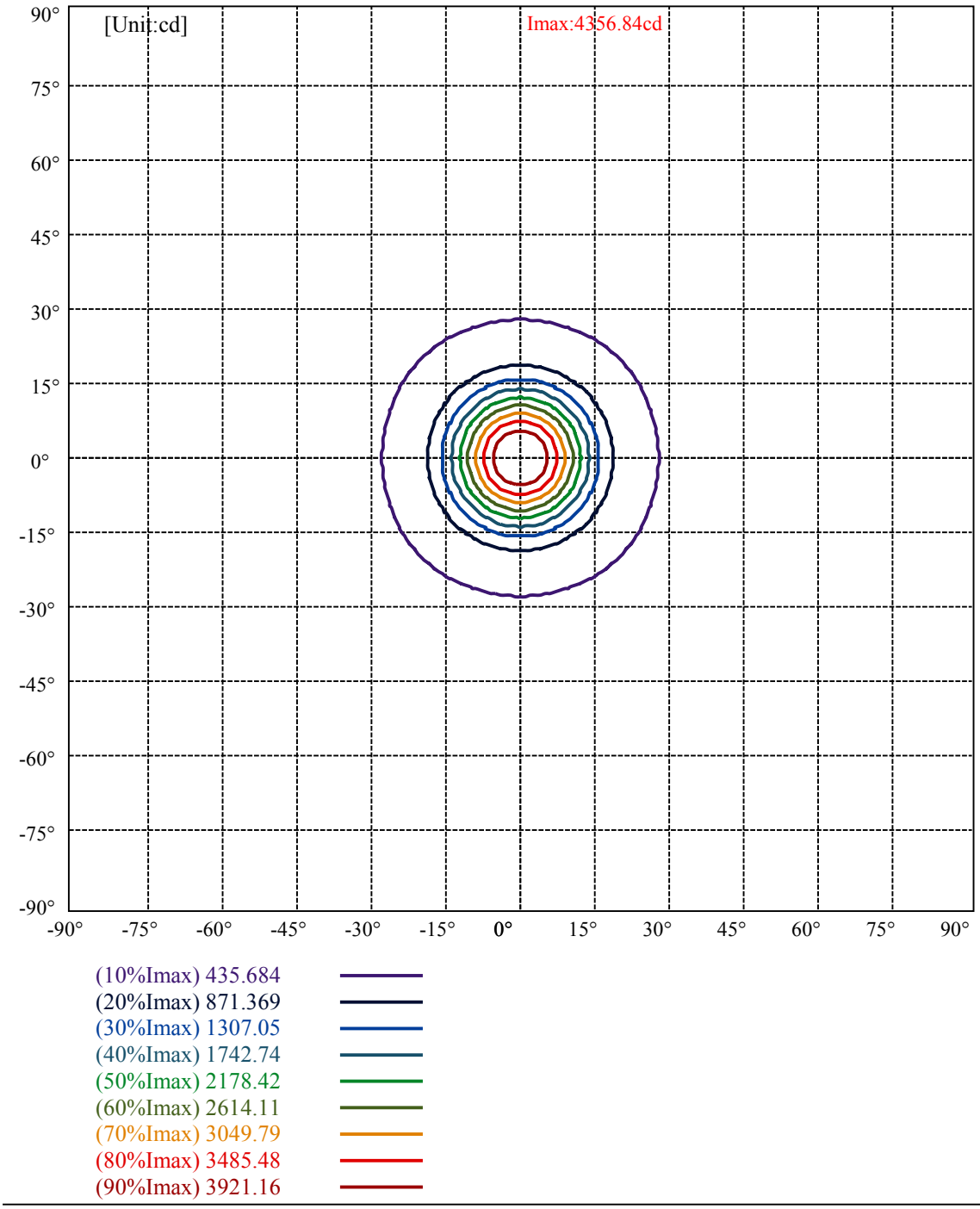
Field angle(10%Imax):C0/180Left:27.5 Right:27.5
:C90/270Left:27.5 Right:27.5

Beam Angle(50%Imax):C0/180Left:12.0 Right:12.0
:C90/270Left:12.0 Right:12.0

Lux distance Curve



ISO-Intensity(V-H)

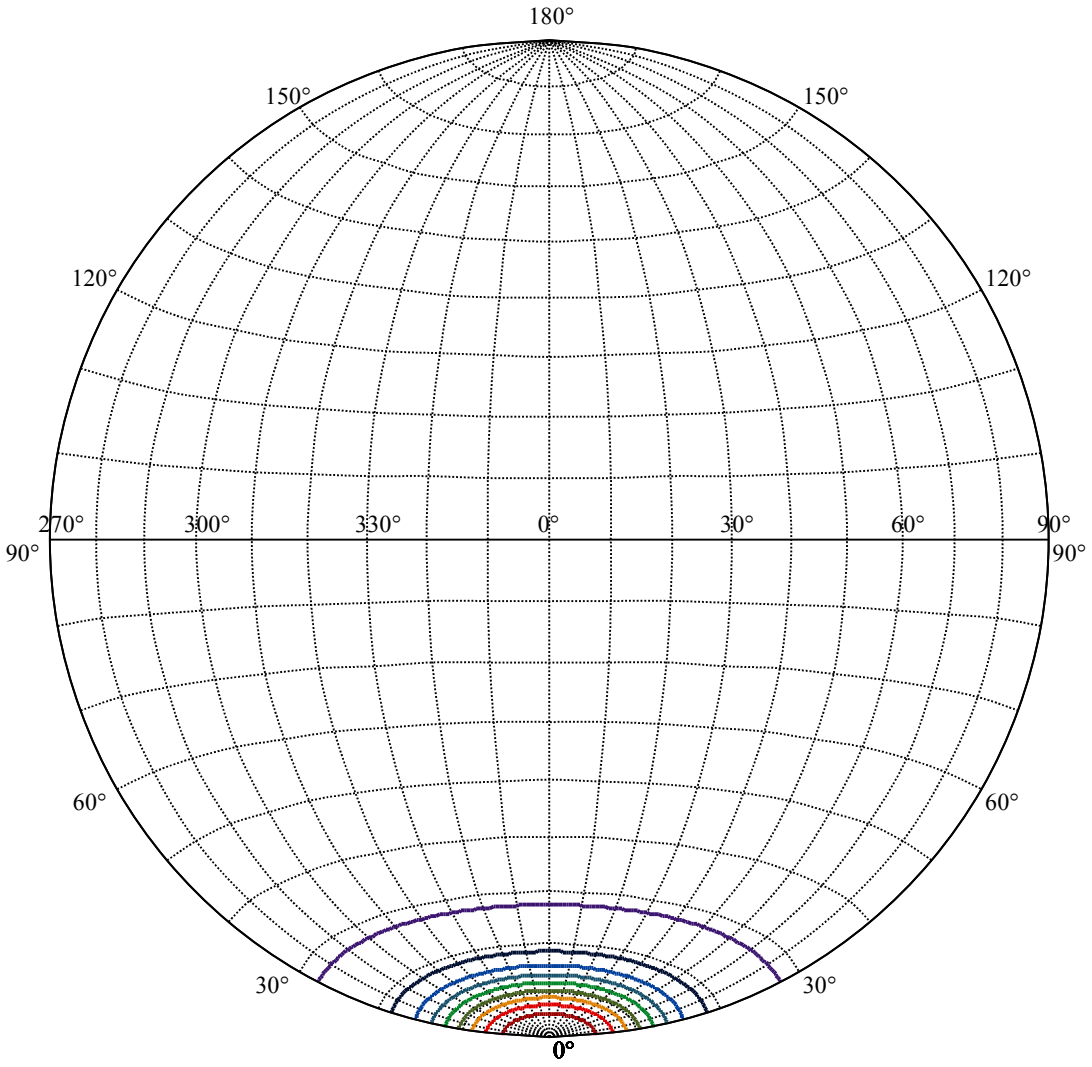


Equipment: GMS1980
Temperature(°C): 10.0

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

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



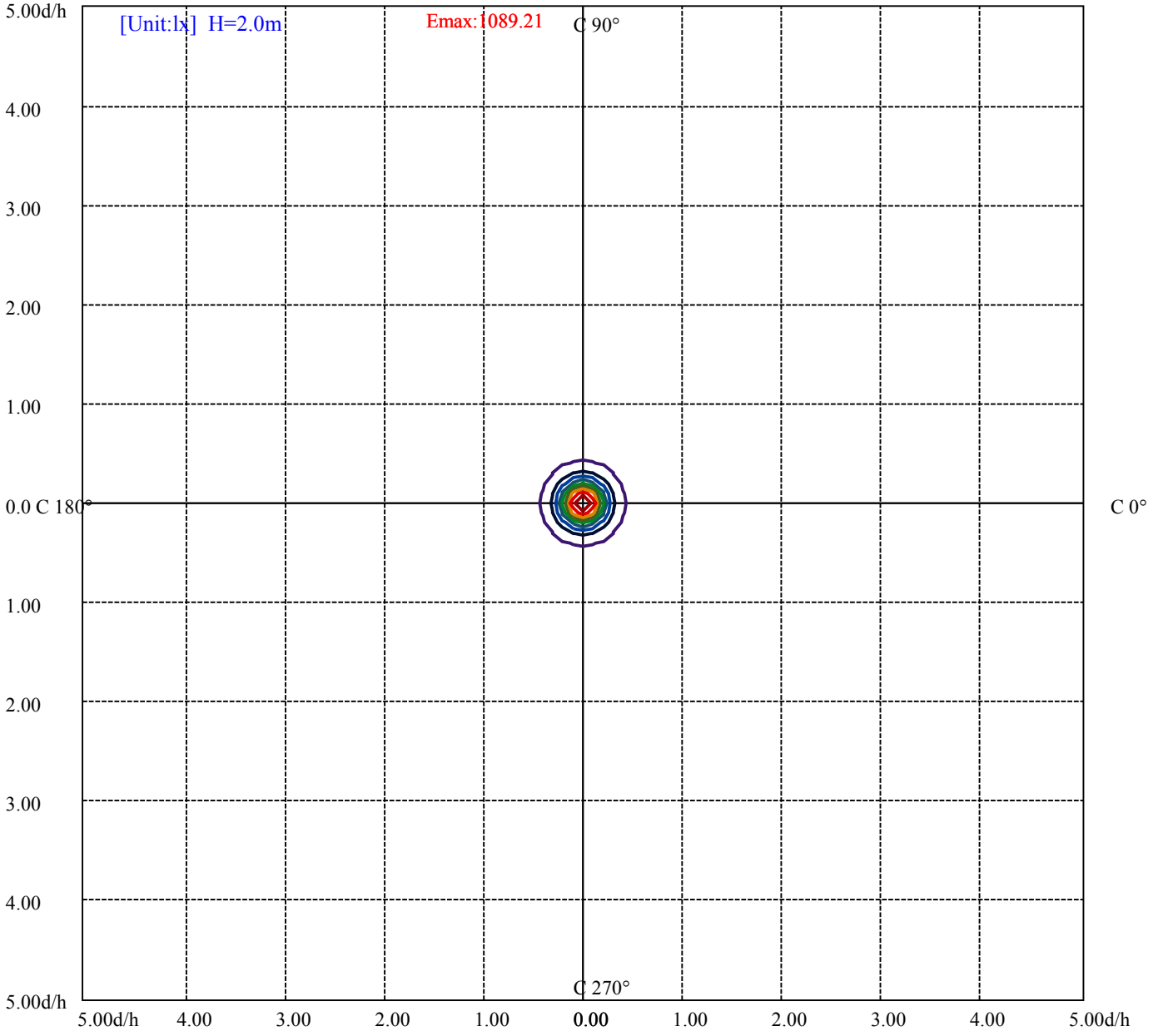
House [Unit:cd] Road

Imax:4356.84

(10%Imax) 435.684
(20%Imax) 871.369
(30%Imax) 1307.05
(40%Imax) 1742.74
(50%Imax) 2178.42
(60%Imax) 2614.11
(70%Imax) 3049.79
(80%Imax) 3485.48
(90%Imax) 3921.16

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

ISO illuminance diagram

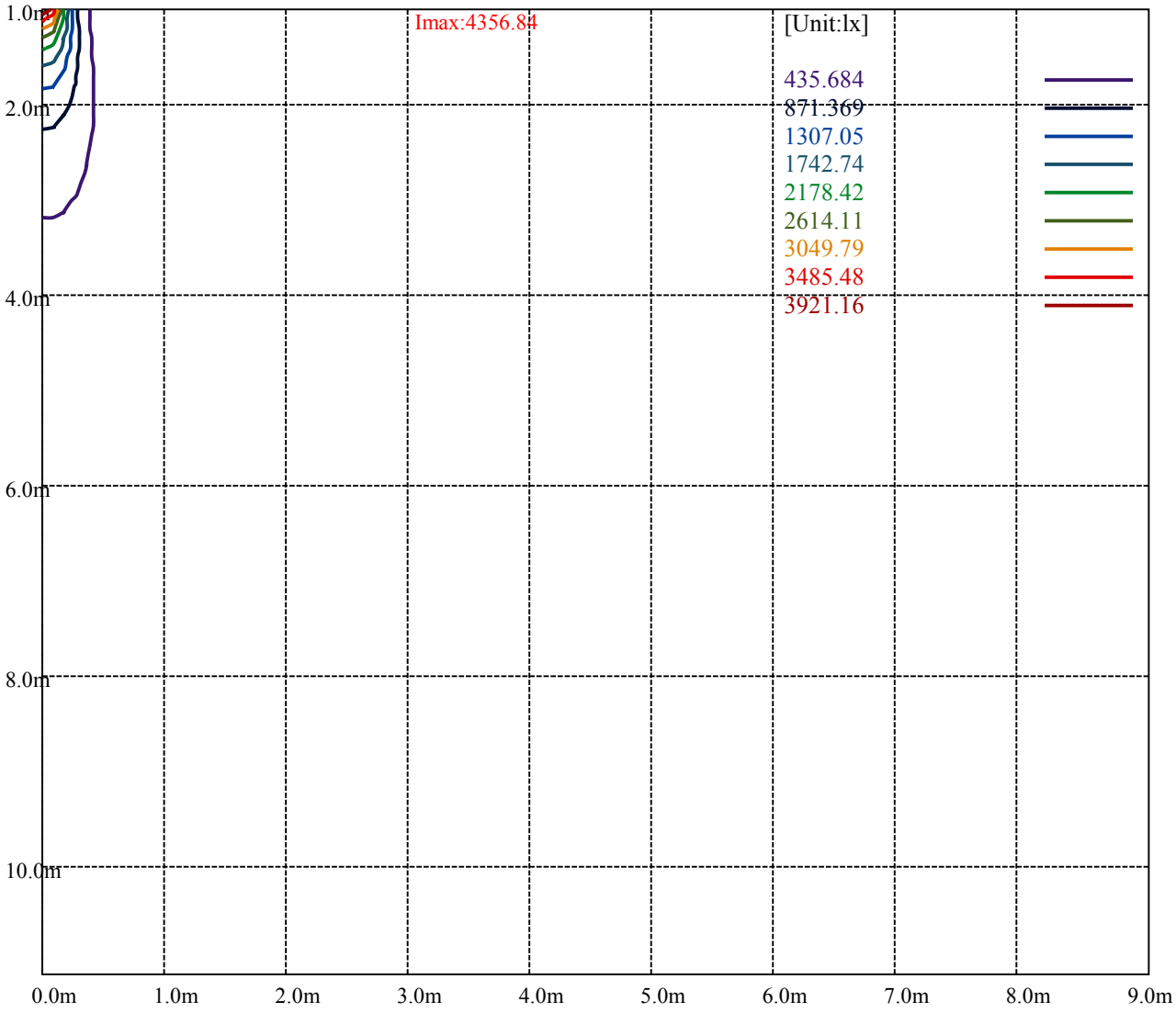


Equipment: GMS1980
Temperature(°C): 10.0

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

NATA 2-1794-N

Luminance Limitting Curve(no luminous side)

Luminance Table

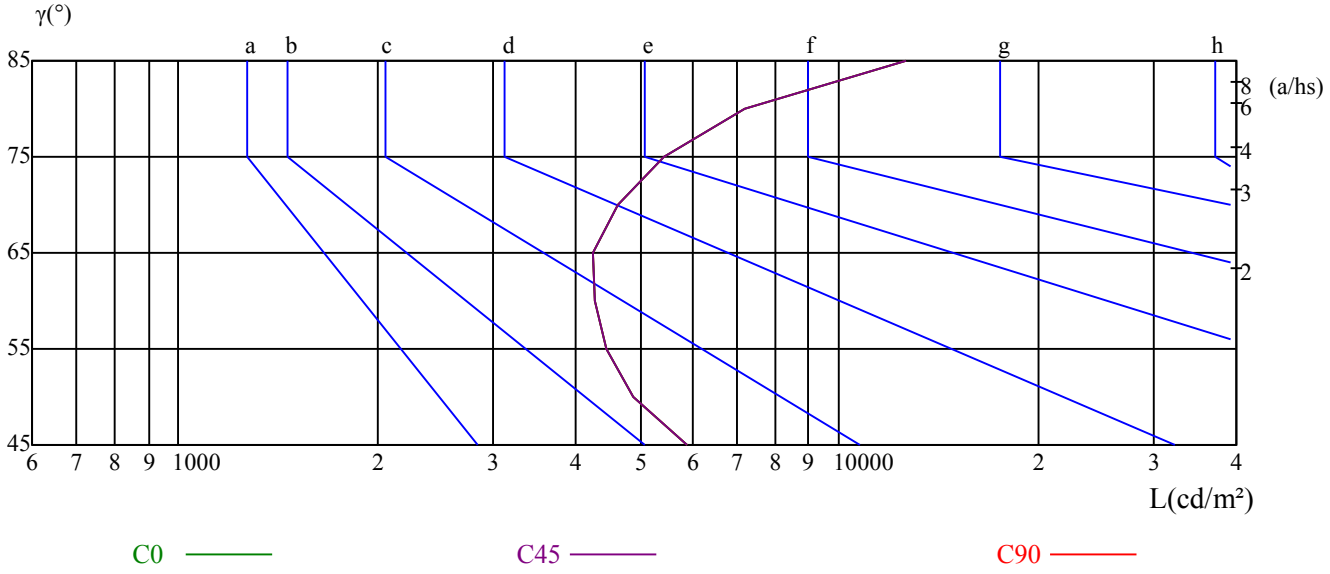
γ	45	50	55	60	65	70	75	80	85
C0	5873	4894	4454	4259	4249	4633	5432	7187	12658
C45	5873	4894	4454	4259	4249	4633	5432	7187	12658
C90	5873	4894	4454	4259	4249	4633	5432	7187	12658

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4249	4249	4249	5432	5432	5432	12658	12658	12658

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



Equipment: GMS1980
Temperature(°C): 10.0

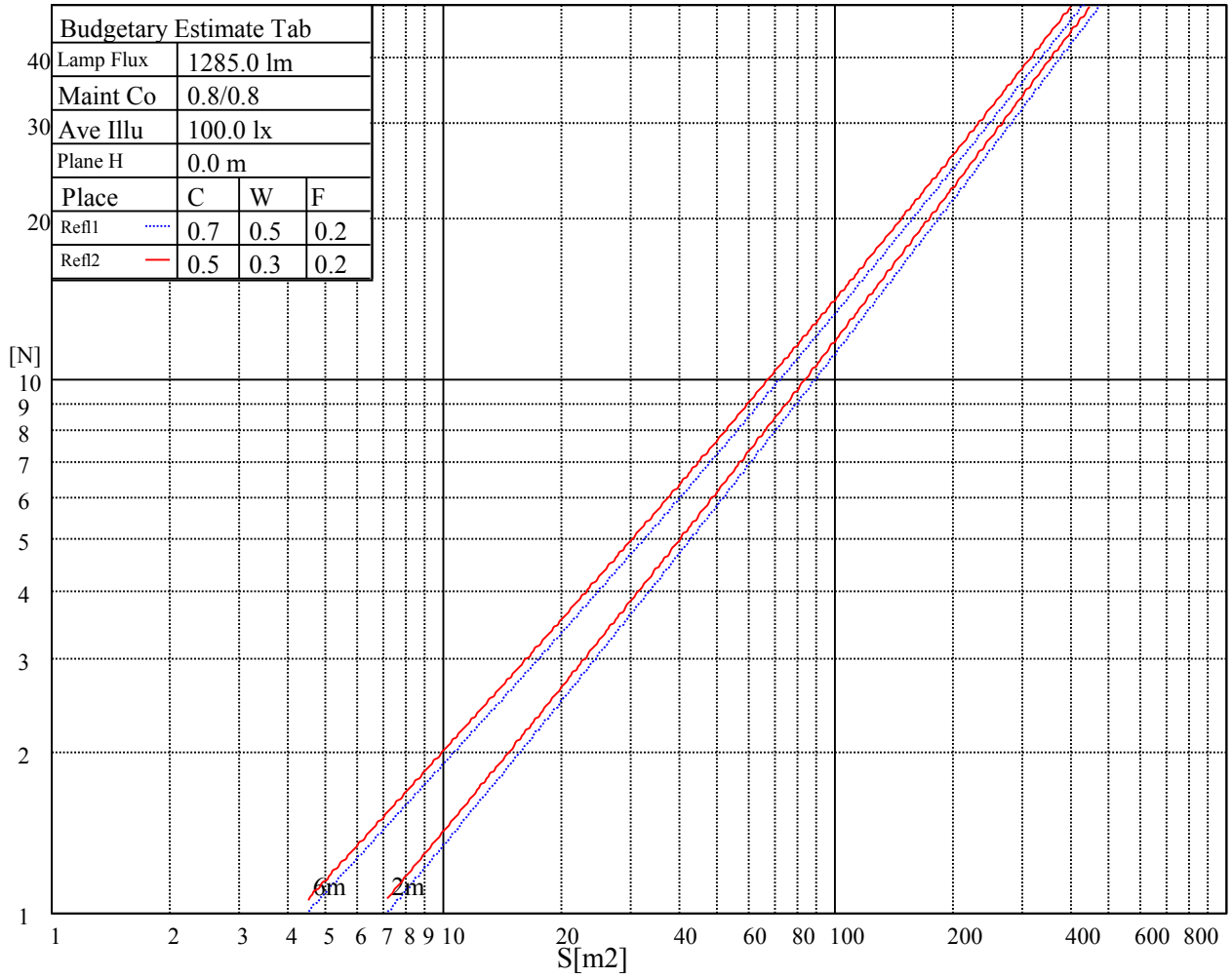
Date: 2019/1/18
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

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	8.25	9.19	8.61	9.50	9.82	8.26	9.21	8.63	9.52	9.84
	3H	10.38	11.21	10.76	11.55	11.92	10.40	11.24	10.78	11.57	11.94
	4H	11.54	12.31	11.94	12.66	13.05	11.55	12.33	11.96	12.68	13.07
	6H	12.83	13.53	13.25	13.91	14.31	12.86	13.56	13.28	13.94	14.34
	8H	13.54	14.20	13.98	14.60	15.01	13.58	14.24	14.02	14.64	15.05
	12H	14.75	15.38	15.19	15.77	16.20	14.81	15.44	15.24	15.83	16.26
4H	2H	8.80	9.57	9.21	9.93	10.32	8.82	9.59	9.22	9.94	10.33
	3H	11.24	11.87	11.65	12.28	12.69	11.26	11.89	11.67	12.30	12.71
	4H	12.59	13.16	13.03	13.58	14.03	12.61	13.17	13.04	13.60	14.05
	6H	13.99	14.48	14.46	14.93	15.40	14.02	14.50	14.49	14.95	15.43
	8H	14.84	15.29	15.31	15.74	16.22	14.88	15.33	15.35	15.78	16.26
	12H	16.05	16.44	16.54	16.93	17.41	16.11	16.50	16.60	16.99	17.46
8H	4H	13.09	13.55	13.57	14.00	14.47	13.11	13.56	13.59	14.01	14.49
	6H	14.79	15.15	15.30	15.65	16.14	14.81	15.17	15.32	15.67	16.16
	8H	15.83	16.15	16.36	16.67	17.17	15.86	16.18	16.40	16.70	17.20
	12H	17.29	17.56	17.81	18.06	18.64	17.34	17.61	17.87	18.11	18.70
12H	4H	13.21	13.60	13.70	14.09	14.57	13.22	13.61	13.72	14.10	14.58
	6H	15.25	15.34	15.56	15.81	16.36	15.27	15.36	15.58	15.83	16.38
	8H	16.18	16.46	16.71	16.95	17.54	16.22	16.49	16.74	16.99	17.57

Variation with the observer position at spacings:		
S = 1.0H	3.1/-1.6	3.1/-1.6
S = 1.5H	3.9/-1.3	3.9/-1.3
S = 2.0H	4.5/-1.1	4.5/-1.1
Standard tables:	BKBF	BKBF
Uncorrected UGR	0.5	0.5

Budgetary Estimate Table

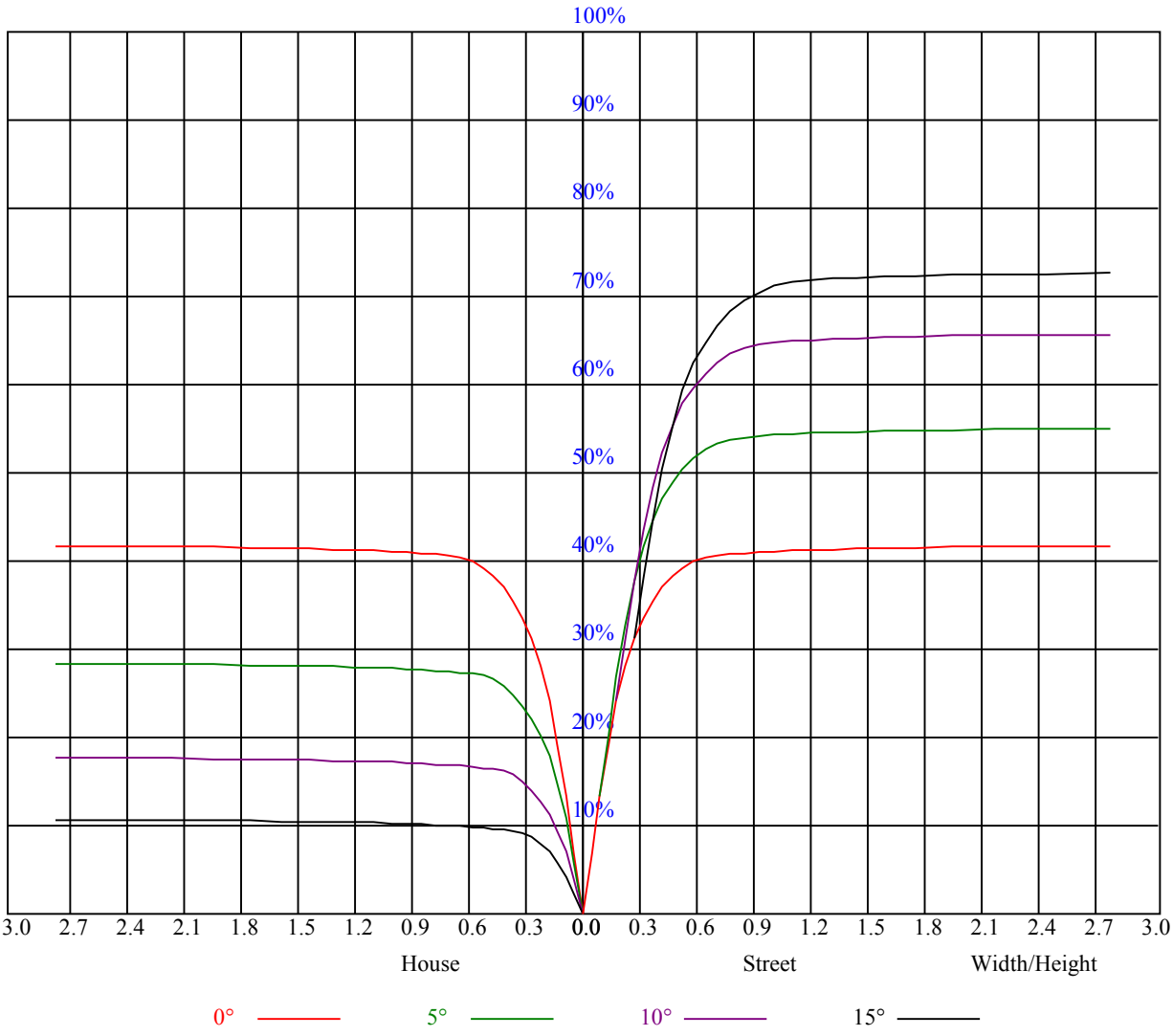


Equipment: GMS1980 Date: 2019/1/18 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.00	1.00	1.00	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.84
1	0.94	0.92	0.91	0.92	0.91	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.80
2	0.89	0.86	0.84	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.80	0.80	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	0.74
4	0.81	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.77	0.75	0.73	0.76	0.74	0.72	0.71
5	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.73	0.71	0.69	0.68
6	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.71	0.69	0.67	0.66
7	0.72	0.68	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.67	0.65	0.64
8	0.70	0.66	0.64	0.69	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.67	0.65	0.63	0.62
9	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.65	0.63	0.61	0.60
10	0.66	0.62	0.60	0.65	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.58

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	4355.44	4348.13	4338.56	4290.75	4204.69	4062.38	3880.69	3636.56	3398.06
45.0	4364.44	4363.31	4328.44	4262.06	4150.69	3957.19	3762.00	3547.69	3269.25
90.0	4356.00	4351.50	4305.38	4223.25	4096.13	3884.63	3684.94	3454.31	3129.75
135.0	4351.50	4354.88	4336.31	4290.19	4213.13	4058.44	3871.69	3693.94	3401.44
180.0	4355.44	4349.81	4335.75	4261.50	4151.81	4008.94	3789.56	3543.75	3295.69
225.0	4364.44	4366.13	4352.63	4308.19	4222.13	4055.06	3869.44	3628.13	3361.50
270.0	4356.00	4350.38	4327.31	4272.75	4183.88	4019.63	3818.25	3603.38	3345.75
315.0	4351.50	4342.50	4291.31	4214.25	4107.38	3932.44	3707.44	3481.31	3218.63
360.0	4355.44	4348.13	4338.56	4290.75	4204.69	4062.38	3880.69	3636.56	3398.06

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3101.06	2806.88	2545.31	2283.75	1970.44	1731.38	1507.50	1253.81	1086.75
45.0	2975.63	2700.56	2399.06	2129.63	1840.50	1580.63	1374.75	1171.69	999.00
90.0	2896.88	2592.00	2256.19	2036.25	1762.31	1491.19	1324.13	1110.60	981.56
135.0	3117.38	2894.06	2567.25	2304.00	2052.56	1755.56	1539.56	1344.94	1133.44
180.0	2998.13	2701.69	2450.81	2174.63	1941.19	1698.19	1469.25	1223.44	1112.01
225.0	3107.25	2805.75	2498.63	2239.88	1985.06	1685.81	1469.25	1214.44	1064.48
270.0	3058.31	2793.38	2496.94	2242.69	1977.75	1719.56	1509.19	1316.81	1110.38
315.0	2924.44	2620.69	2358.56	2072.25	1801.13	1578.38	1353.94	1114.65	1001.70
360.0	3101.06	2806.88	2545.31	2283.75	1970.44	1731.38	1507.50	1253.81	1086.75

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	947.25	830.25	717.19	649.69	598.50	554.06	525.38	498.38	473.06
45.0	870.19	767.25	670.50	612.00	570.38	525.94	493.31	468.00	443.81
90.0	843.08	746.72	668.98	599.12	555.41	521.66	486.79	462.66	440.66
135.0	990.00	871.31	752.63	676.69	618.75	570.38	534.94	505.69	480.38
180.0	937.58	821.64	724.05	634.22	585.28	547.20	512.27	482.74	460.24
225.0	932.79	819.39	721.13	645.64	597.49	558.34	532.01	504.34	478.63
270.0	977.06	858.94	740.25	671.63	617.63	573.75	542.81	518.06	492.75
315.0	864.68	765.23	686.70	613.46	571.84	538.54	503.55	480.38	461.14
360.0	947.25	830.25	717.19	649.69	598.50	554.06	525.38	498.38	473.06

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	450.56	432.56	405.00	356.63	284.06	198.11	130.78	72.56	45.06
45.0	428.06	410.63	377.44	309.38	284.63	161.83	92.81	52.59	43.09
90.0	420.30	394.93	347.46	275.91	210.66	140.12	82.24	54.56	45.23
135.0	459.56	442.69	421.88	377.44	300.94	245.19	143.49	87.75	51.19
180.0	439.88	423.56	401.12	347.34	281.14	199.07	124.76	75.77	49.67
225.0	458.27	439.54	408.15	353.08	284.91	198.06	132.36	79.09	50.57
270.0	471.94	451.13	418.50	360.00	289.13	195.92	129.49	77.91	48.77
315.0	440.94	420.13	378.90	308.87	236.59	155.53	87.64	52.65	41.57
360.0	450.56	432.56	405.00	356.63	284.06	198.11	130.78	72.56	45.06

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	40.44	36.84	32.79	29.81	27.39	25.37	23.46	21.88	20.42
45.0	38.53	35.21	31.67	28.69	26.78	25.20	22.95	21.49	20.48
90.0	40.22	36.84	33.75	30.32	28.18	26.21	24.24	22.56	21.15
135.0	44.21	40.50	36.79	33.69	31.22	28.86	26.72	24.92	23.18
180.0	41.12	37.86	34.93	31.78	29.03	27.06	24.98	23.29	21.77
225.0	43.31	39.54	36.28	32.23	29.81	27.62	25.76	23.85	22.28
270.0	42.69	38.08	34.54	30.66	28.18	26.21	24.19	22.61	21.26
315.0	36.73	33.36	30.49	27.34	25.48	23.68	21.94	20.36	19.13
360.0	40.44	36.84	32.79	29.81	27.39	25.37	23.46	21.88	20.42

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	19.13	18.06	16.99	16.14	15.24	14.51	13.95	13.39	12.88
45.0	18.84	17.72	16.93	15.98	15.13	14.63	13.84	13.39	12.88
90.0	19.80	18.62	17.61	16.65	15.81	15.08	14.40	13.73	13.28
135.0	21.71	20.36	19.18	18.17	17.27	16.31	15.53	14.74	13.95
180.0	20.25	19.29	18.06	17.04	16.26	15.41	14.57	14.01	13.56
225.0	20.70	19.46	18.06	17.16	16.31	15.30	14.57	13.95	13.44
270.0	19.86	18.56	17.55	16.54	15.75	14.79	14.12	13.50	12.94
315.0	17.89	16.82	15.92	15.13	14.40	13.78	13.11	12.71	12.32
360.0	19.13	18.06	16.99	16.14	15.24	14.51	13.95	13.39	12.88

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.43	11.98	11.53	11.14	10.80	10.41	10.07	9.73	9.39
45.0	12.43	12.04	11.64	11.25	10.86	10.46	10.07	9.73	9.39
90.0	12.71	12.21	11.81	11.31	10.91	10.52	10.13	9.68	9.39
135.0	13.39	12.77	12.21	11.70	11.31	10.86	10.46	10.07	9.62
180.0	12.77	12.38	11.93	11.48	11.03	10.63	10.29	9.90	9.51
225.0	12.83	12.43	11.98	11.53	11.14	10.63	10.24	9.90	9.56
270.0	12.38	12.04	11.70	11.25	10.91	10.52	10.07	9.79	9.39
315.0	11.87	11.48	11.14	10.74	10.41	10.13	9.79	9.39	9.11
360.0	12.43	11.98	11.53	11.14	10.80	10.41	10.07	9.73	9.39

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.11	8.83	8.55	8.38	8.16	7.99	7.82	7.59	7.37
45.0	9.06	8.78	8.55	8.27	8.04	7.88	7.71	7.48	7.31
90.0	9.06	8.78	8.49	8.27	8.04	7.88	7.65	7.48	7.31
135.0	9.34	8.94	8.66	8.44	8.21	7.99	7.82	7.59	7.43
180.0	9.23	8.89	8.61	8.44	8.21	7.99	7.82	7.59	7.43
225.0	9.23	8.94	8.66	8.38	8.21	7.99	7.76	7.59	7.48
270.0	9.17	8.89	8.55	8.33	8.16	7.93	7.76	7.65	7.43
315.0	8.83	8.55	8.33	8.16	7.93	7.71	7.54	7.37	7.26
360.0	9.11	8.83	8.55	8.38	8.16	7.99	7.82	7.59	7.37

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.26	7.09	6.92	6.69	6.58	6.41	6.24	6.08	5.96
45.0	7.09	6.92	6.75	6.58	6.41	6.30	6.08	5.96	5.85
90.0	7.14	6.98	6.81	6.64	6.47	6.30	6.19	5.96	5.85
135.0	7.26	7.09	6.92	6.75	6.58	6.41	6.30	6.13	5.96
180.0	7.26	7.09	6.92	6.75	6.58	6.41	6.30	6.19	6.02
225.0	7.26	7.09	6.92	6.81	6.64	6.47	6.36	6.19	6.08
270.0	7.26	7.14	6.98	6.81	6.64	6.53	6.30	6.13	6.02
315.0	7.03	6.86	6.75	6.53	6.36	6.24	6.08	5.91	5.79
360.0	7.26	7.09	6.92	6.69	6.58	6.41	6.24	6.08	5.96

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.74	5.63	5.46	5.40	5.23	5.12	4.95	4.89	4.73
45.0	5.68	5.57	5.40	5.23	5.18	5.01	4.84	4.78	4.73
90.0	5.74	5.68	5.51	5.34	5.18	5.01	4.84	4.73	4.73
135.0	5.85	5.68	5.63	5.46	5.34	5.18	5.06	4.95	4.84
180.0	5.91	5.74	5.63	5.46	5.34	5.18	5.06	4.89	4.89
225.0	5.91	5.79	5.68	5.51	5.40	5.29	5.12	5.01	4.89
270.0	5.91	5.74	5.57	5.40	5.23	5.06	4.95	4.84	4.73
315.0	5.63	5.51	5.34	5.23	5.12	5.01	4.89	4.78	4.67
360.0	5.74	5.63	5.46	5.40	5.23	5.12	4.95	4.89	4.73

Intensity data(cd)

C/γ(°)	90.0
0.0	4.61
45.0	4.67
90.0	4.67
135.0	4.78
180.0	4.78
225.0	4.84
270.0	4.67
315.0	4.61
360.0	4.61