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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NATA

LumCAT: 1405-N
Luminaire: 92.70.051.00
Report No: NATA0100
Test No: GC2019010403
LampCAT: BRIDGELUX V8E G7
Lamp flux(lm): 1364.5
Number of Lamps: 1
Length(mm): 39
Phm Type: C

Voltage(V): 35.6000
Current(A): 0.2600
Power (W): 9.2560
PF: 1.0000
Ballast type: DC
Width(mm): 39
Height(mm): 0

Photometric Results

Lumens(lm): 1181.24
Efficiency(%): 86.57%
Lumens(lm)/Power(W): 127.69
Central intensity(cd): 2796.890
Maximum intensity(cd): 2796.890
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=23.4
[C90/270]Total=23.4
Field angle(10%Imax): [C0/180]Total=76.3
[C90/270]Total=76.3
Maximum s/h(1/2): C0_180=0.39 C90_270=0.39
Maximum s/h(1/4): C0_180=0.45 C90_270=0.45
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 86.62%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 95.157%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2796.891	0.669	0.669	.049%	.057%
1.0	2783.461	5.327	5.996	.390%	.508%
2.0	2733.188	10.460	16.456	.767%	1.393%
3.0	2652.961	15.226	31.682	1.116%	2.682%
4.0	2556.281	19.554	51.237	1.433%	4.338%
5.0	2427.398	23.200	74.437	1.700%	6.302%
6.0	2283.328	26.173	100.61	1.918%	8.517%
7.0	2127.656	28.435	129.045	2.084%	10.925%
8.0	1973.602	30.121	159.165	2.207%	13.474%
9.0	1808.508	31.024	190.19	2.274%	16.101%
10.0	1652.766	31.473	221.662	2.307%	18.765%
11.0	1499.273	31.371	253.034	2.299%	21.421%
12.0	1349.902	30.777	283.811	2.256%	24.027%
13.0	1231.931	30.390	314.201	2.227%	26.599%
14.0	1106.965	29.367	343.568	2.152%	29.085%
15.0	1006.045	28.554	372.122	2.093%	31.503%
16.0	919.448	27.792	399.914	2.037%	33.855%
17.0	838.730	26.891	426.805	1.971%	36.132%
18.0	768.333	26.037	452.841	1.908%	38.336%
19.0	714.333	25.503	478.344	1.869%	40.495%
20.0	662.815	24.860	503.204	1.822%	42.600%
21.0	618.216	24.295	527.499	1.781%	44.656%
22.0	583.601	23.974	551.474	1.757%	46.686%
23.0	553.317	23.708	575.182	1.738%	48.693%
24.0	524.405	23.390	598.572	1.714%	50.673%
25.0	501.082	23.222	621.795	1.702%	52.639%
26.0	480.059	23.077	644.872	1.691%	54.593%
27.0	459.619	22.882	667.754	1.677%	56.530%
28.0	441.809	22.745	690.5	1.667%	58.456%
29.0	425.355	22.614	713.114	1.657%	60.370%
30.0	409.486	22.452	735.566	1.645%	62.271%
31.0	394.200	22.264	757.83	1.632%	64.156%
32.0	378.527	21.997	779.827	1.612%	66.018%
33.0	363.923	21.736	801.562	1.593%	67.858%
34.0	348.152	21.349	822.912	1.565%	69.665%
35.0	332.487	20.913	843.825	1.533%	71.436%
36.0	315.809	20.356	864.181	1.492%	73.159%
37.0	301.155	19.875	884.056	1.457%	74.841%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	282.698	19.086	903.142	1.399%	76.457%
39.0	264.438	18.249	921.391	1.337%	78.002%
40.0	249.363	17.577	938.968	1.288%	79.490%
41.0	231.082	16.625	955.593	1.218%	80.898%
42.0	213.321	15.653	971.246	1.147%	82.223%
43.0	196.741	14.714	985.96	1.078%	83.468%
44.0	181.413	13.819	999.78	1.013%	84.638%
45.0	166.050	12.876	1012.656	.944%	85.728%
46.0	152.191	12.005	1024.661	.880%	86.745%
47.0	138.853	11.136	1035.797	.816%	87.687%
48.0	126.422	10.303	1046.1	.755%	88.560%
49.0	115.235	9.537	1055.637	.699%	89.367%
50.0	104.576	8.785	1064.422	.644%	90.111%
51.0	95.295	8.121	1072.543	.595%	90.798%
52.0	87.441	7.556	1080.099	.554%	91.438%
53.0	80.051	7.011	1087.11	.514%	92.031%
54.0	72.886	6.466	1093.576	.474%	92.579%
55.0	67.402	6.055	1099.631	.444%	93.091%
56.0	62.304	5.664	1105.295	.415%	93.571%
57.0	57.586	5.296	1110.591	.388%	94.019%
58.0	53.346	4.961	1115.552	.364%	94.439%
59.0	49.781	4.679	1120.232	.343%	94.835%
60.0	46.287	4.396	1124.627	.322%	95.207%
61.0	43.038	4.128	1128.755	.303%	95.557%
62.0	40.219	3.894	1132.649	.285%	95.887%
63.0	37.617	3.676	1136.325	.269%	96.198%
64.0	35.121	3.462	1139.787	.254%	96.491%
65.0	32.864	3.266	1143.053	.239%	96.767%
66.0	30.790	3.085	1146.137	.226%	97.028%
67.0	28.828	2.910	1149.047	.213%	97.275%
68.0	27.056	2.751	1151.798	.202%	97.508%
69.0	25.172	2.577	1154.375	.189%	97.726%
70.0	23.597	2.432	1156.807	.178%	97.932%
71.0	22.078	2.289	1159.096	.168%	98.125%
72.0	20.468	2.135	1161.231	.156%	98.306%
73.0	19.090	2.002	1163.233	.147%	98.476%
74.0	17.796	1.876	1165.109	.137%	98.634%
75.0	16.474	1.745	1166.854	.128%	98.782%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.195	1.617	1168.47	.118%	98.919%
77.0	14.098	1.506	1169.977	.110%	99.047%
78.0	13.008	1.395	1171.372	.102%	99.165%
79.0	11.932	1.284	1172.656	.094%	99.273%
80.0	10.969	1.185	1173.841	.087%	99.374%
81.0	10.013	1.084	1174.926	.079%	99.465%
82.0	9.183	0.997	1175.923	.073%	99.550%
83.0	8.416	0.916	1176.839	.067%	99.627%
84.0	7.685	0.838	1177.677	.061%	99.698%
85.0	7.066	0.772	1178.449	.057%	99.764%
86.0	6.420	0.702	1179.151	.051%	99.823%
87.0	5.899	0.646	1179.797	.047%	99.878%
88.0	5.484	0.601	1180.398	.044%	99.929%
89.0	5.175	0.567	1180.966	.042%	99.977%
90.0	4.992	0.274	1181.239	.020%	100.000%

Zonal flux distribution table

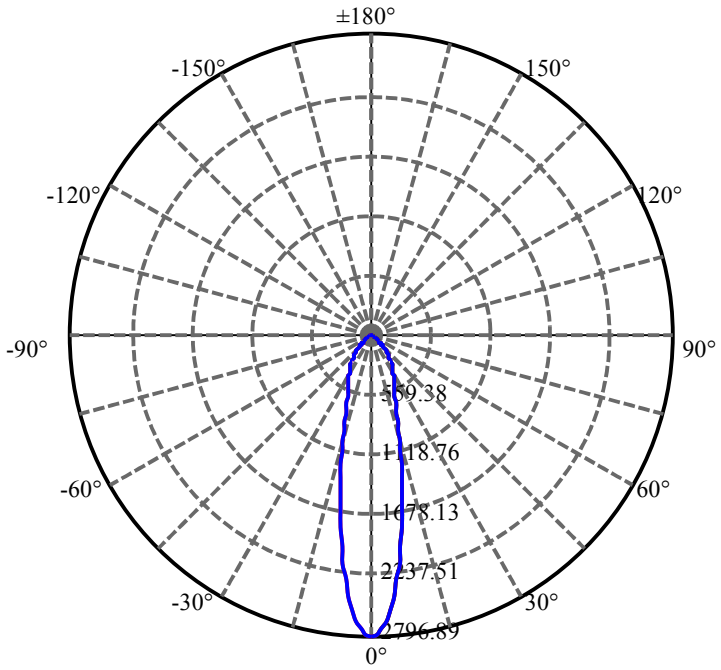
ZONAL LUMEN SUMMARY

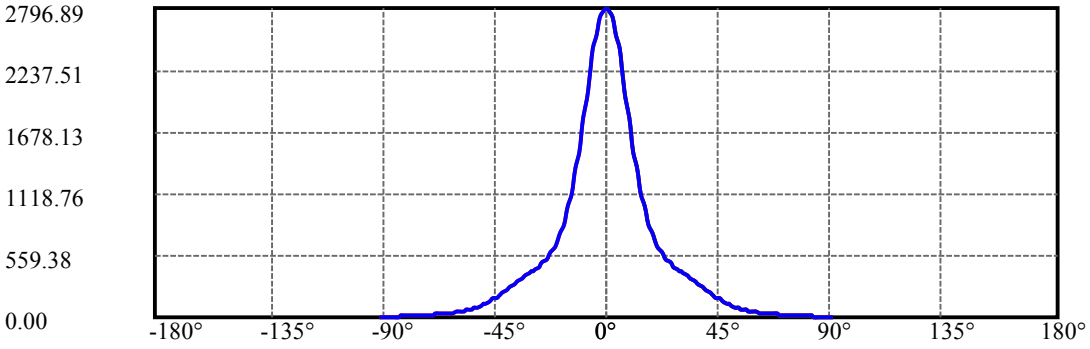
Zone	Lumens	%Lamp	%Fixt
0-30	735.57	53.91%	62.27%
0-40	938.97	68.81%	79.49%
0-60	1124.63	82.42%	95.21%
0-90	1180.97	86.55%	99.98%
0-120	1180.97	86.55%	99.98%
0-180	1181.24	86.57%	100.00%
60-90	60.73	4.45%	5.14%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-40.36	944.99	69.26%	80.00%

ZONAL LUMEN SUMMARY

0-10	221.66
10-20	281.54
20-30	232.36
30-40	203.40
40-50	125.45
50-60	60.21
60-70	32.18
70-80	17.03
80-90	7.12
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):

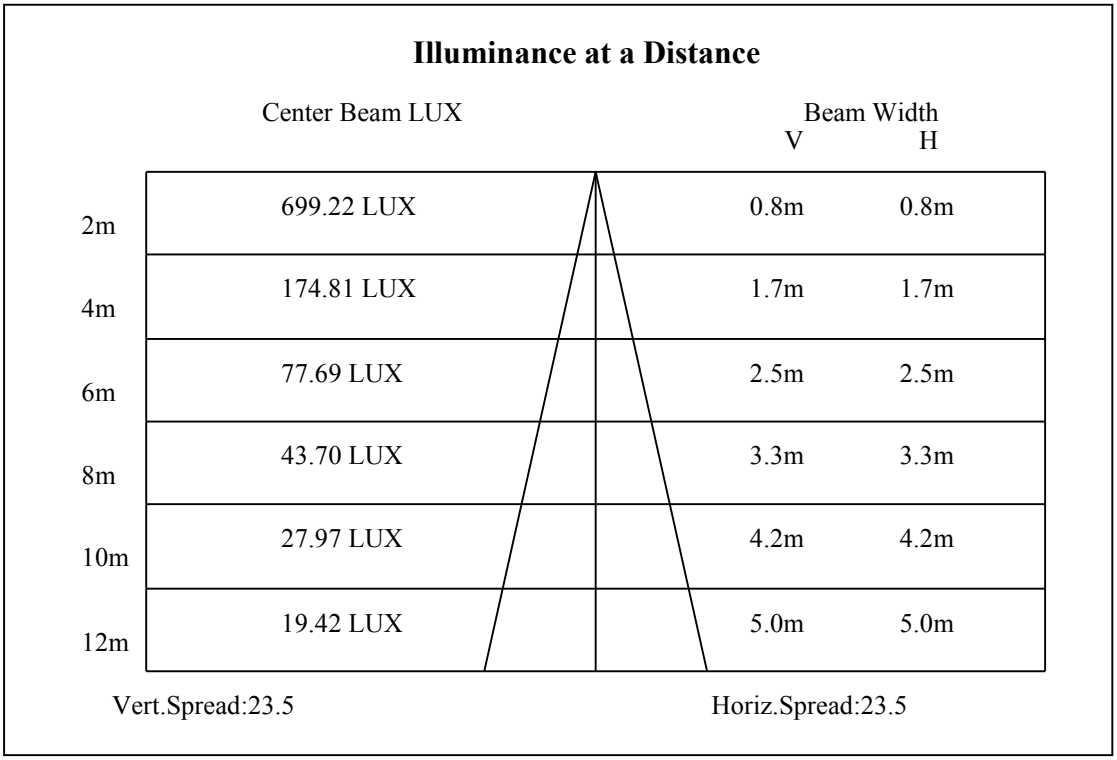
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:38.2 Right:38.2
:C90/270Left:38.2 Right:38.2

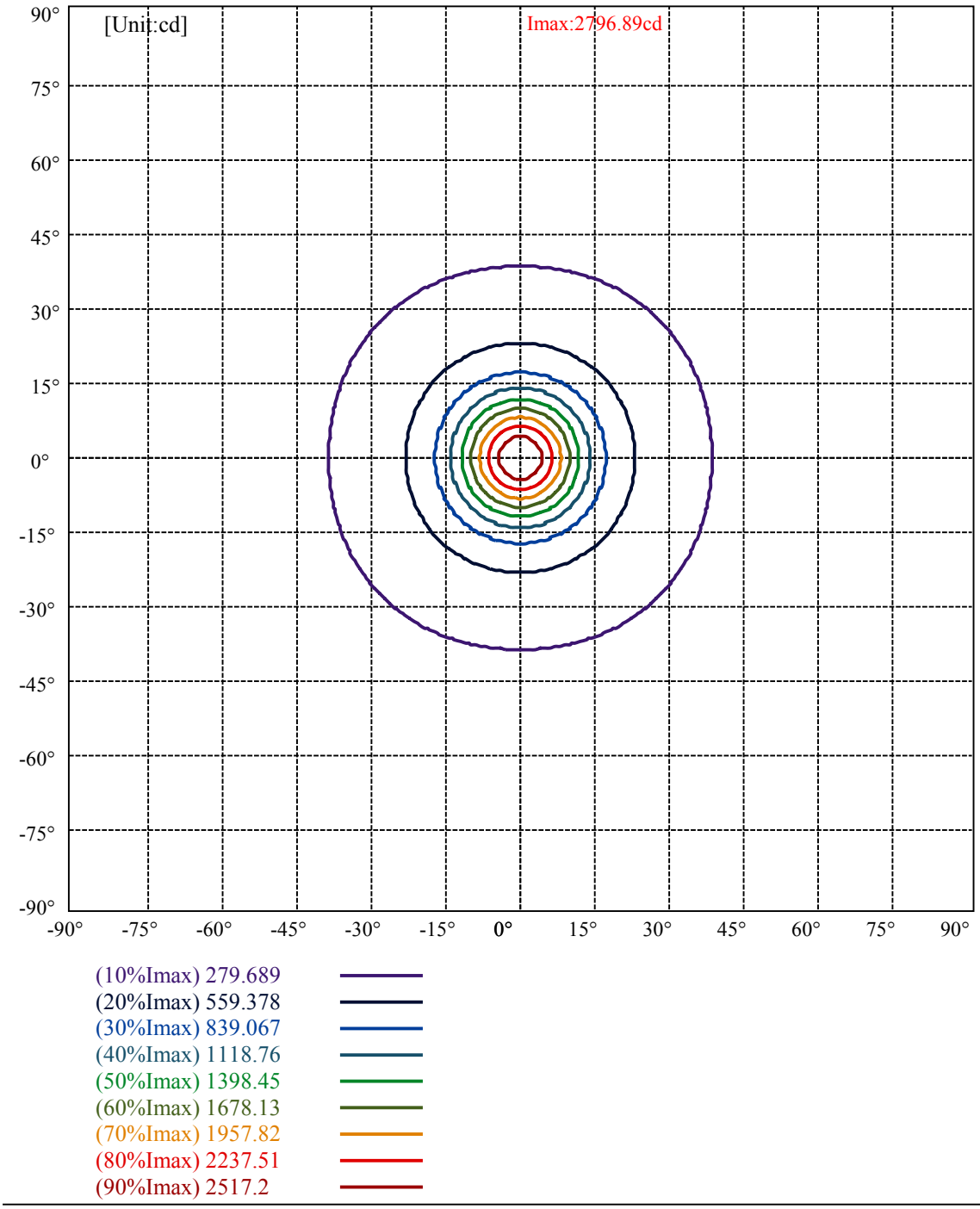
Beam Angle(50%Imax):C0/180Left:11.7 Right:11.7
:C90/270Left:11.7 Right:11.7

Lux distance Curve



Equipment: GMS1980 Date: 2019/1/4 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

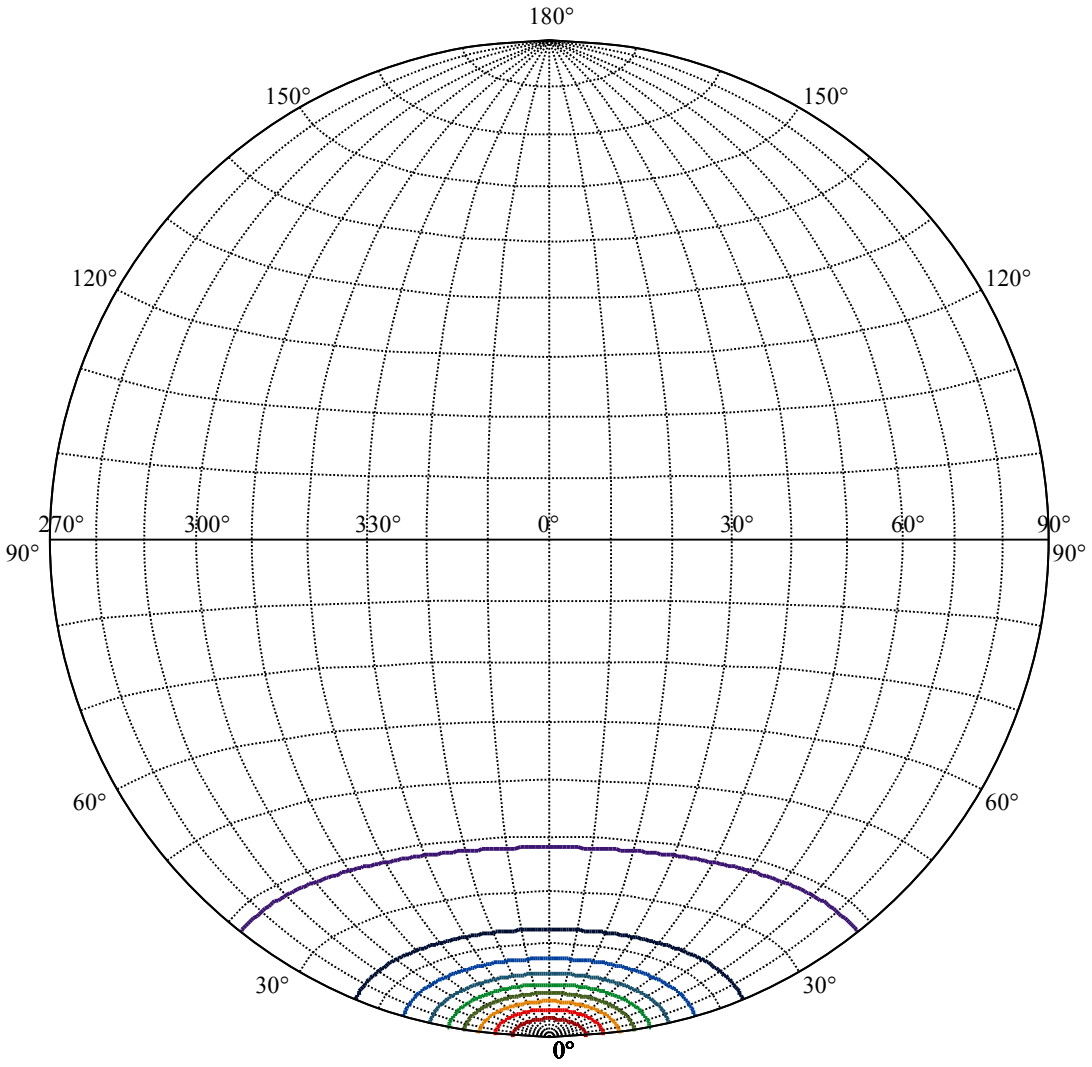


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/4
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:2796.89

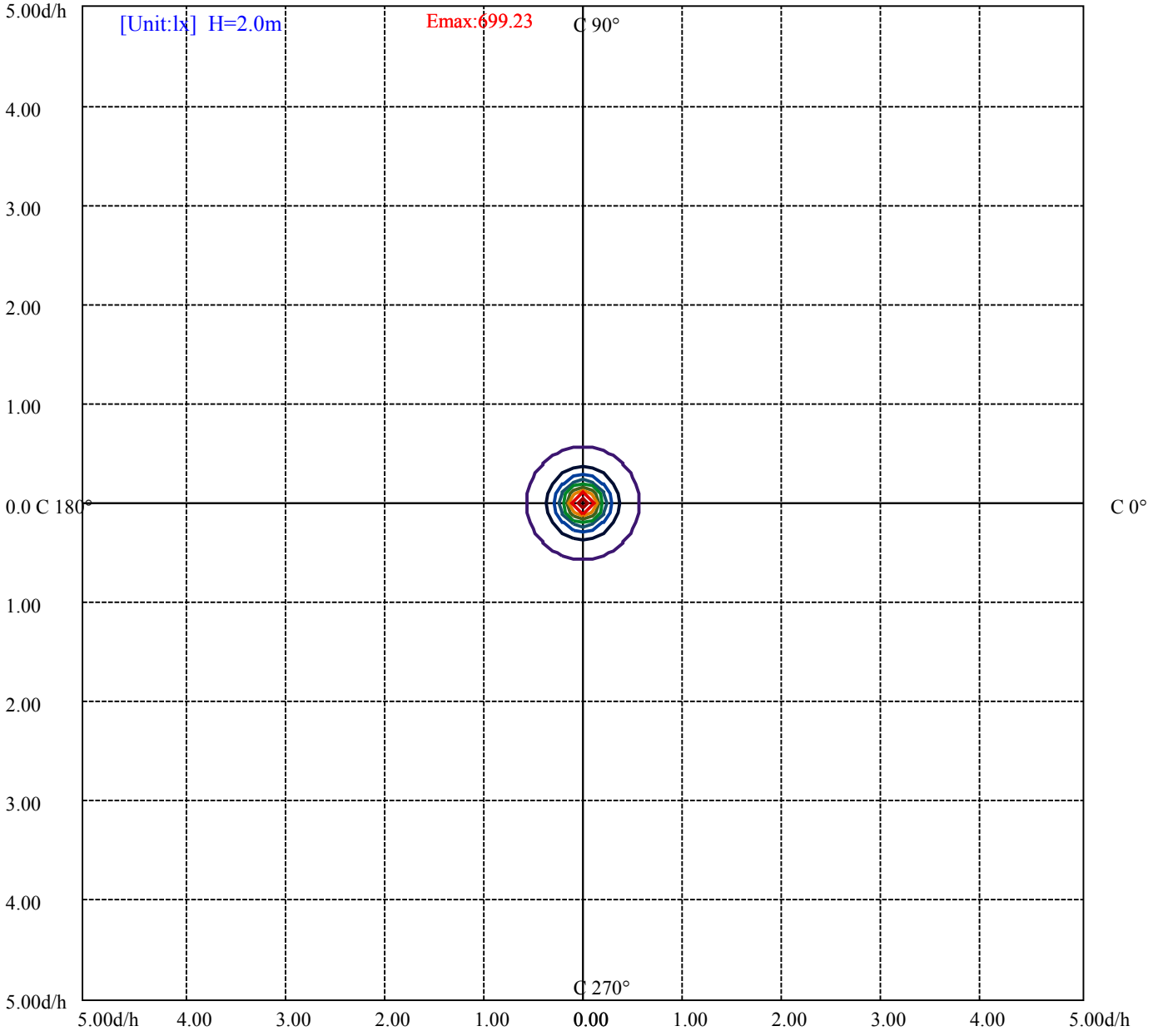
(10%Imax) 279.689
(20%Imax) 559.378
(30%Imax) 839.067
(40%Imax) 1118.76
(50%Imax) 1398.45
(60%Imax) 1678.13
(70%Imax) 1957.82
(80%Imax) 2237.51
(90%Imax) 2517.2

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/4
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

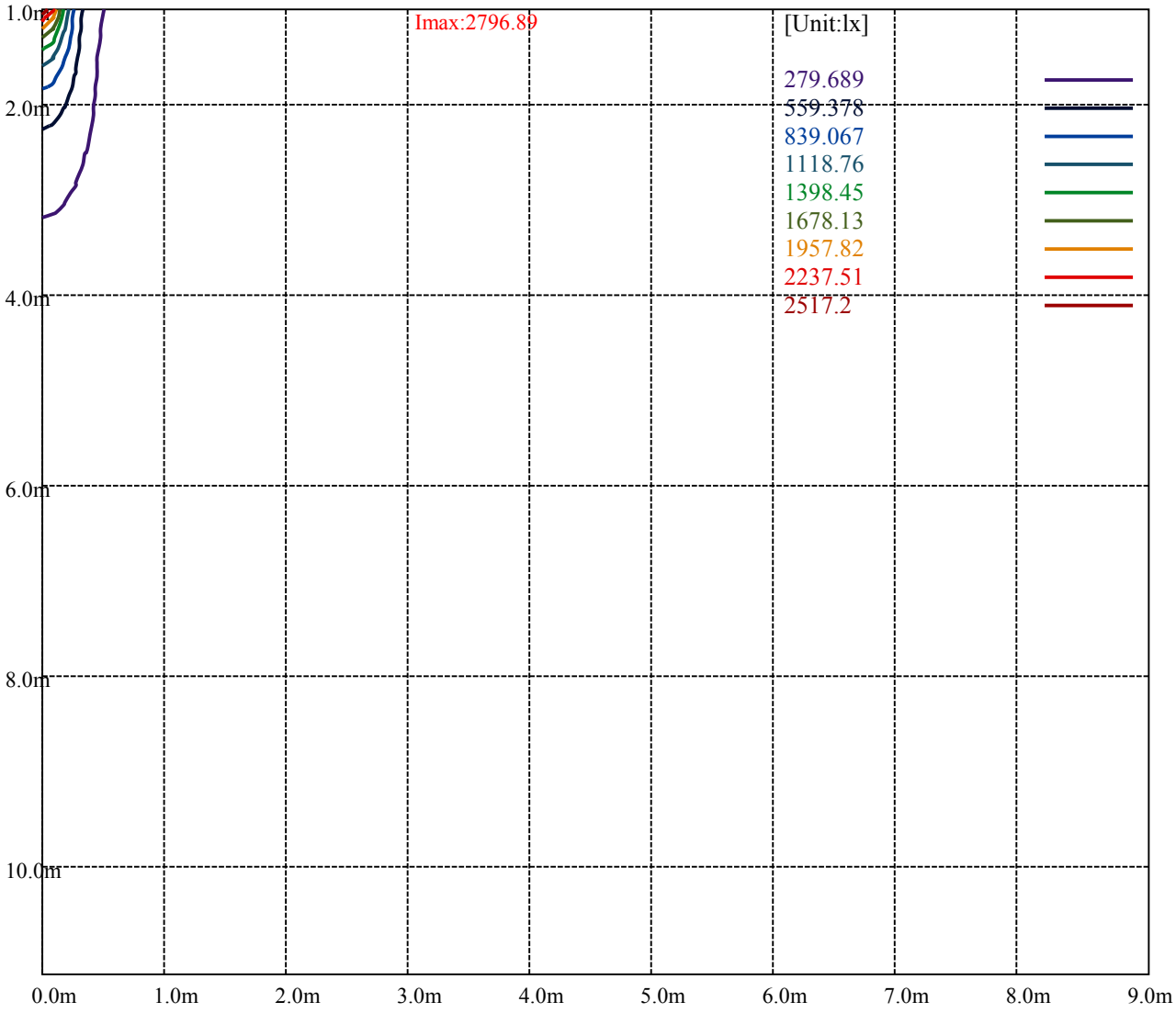
ISO illuminance diagram



(10%Emax) 69.92225
(20%Emax) 139.8445
(30%Emax) 209.7668
(40%Emax) 279.69
(50%Emax) 349.61
(60%Emax) 419.5325
(70%Emax) 489.455
(80%Emax) 559.3775
(90%Emax) 629.3

Equipment: GMS1980	Date: 2019/1/4	Operator: NT07
Temperature(°C): 10.0	Humidity(%): 65.0%	Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/4
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

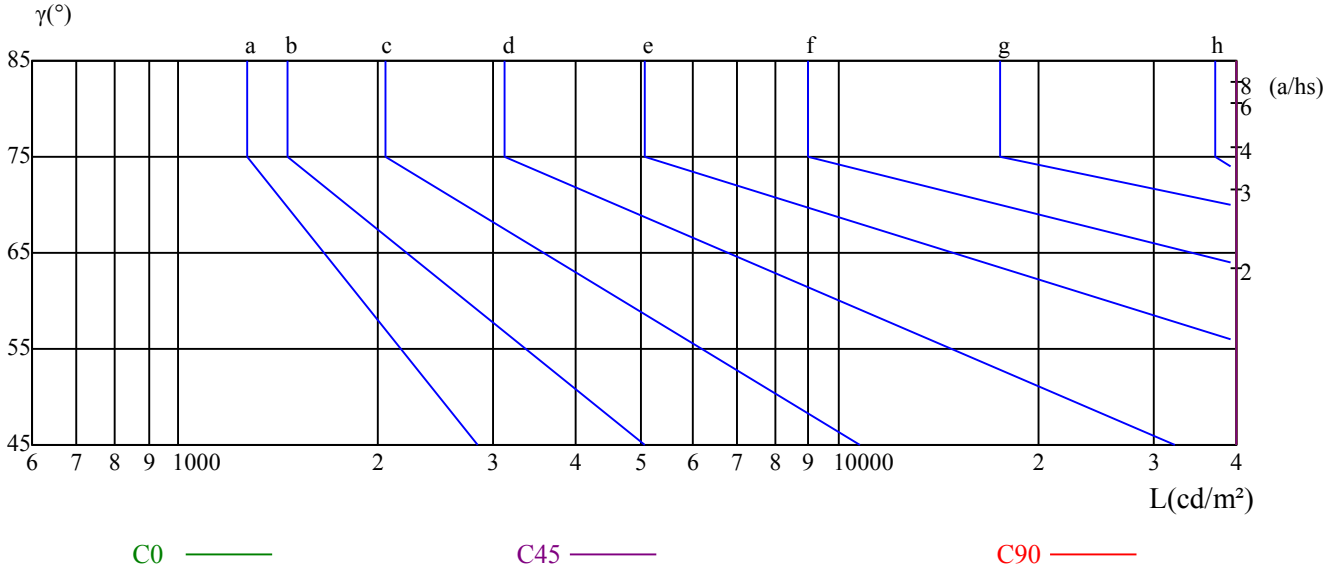
γ	45	50	55	60	65	70	75	80	85
C0	154392	106963	77259	60864	51126	45360	41848	41530	53306
C45	154392	106963	77259	60864	51126	45360	41848	41530	53306
C90	154392	106963	77259	60864	51126	45360	41848	41530	53306

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
51126	51126	51126	41848	41848	41848	53306	53306	53306

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

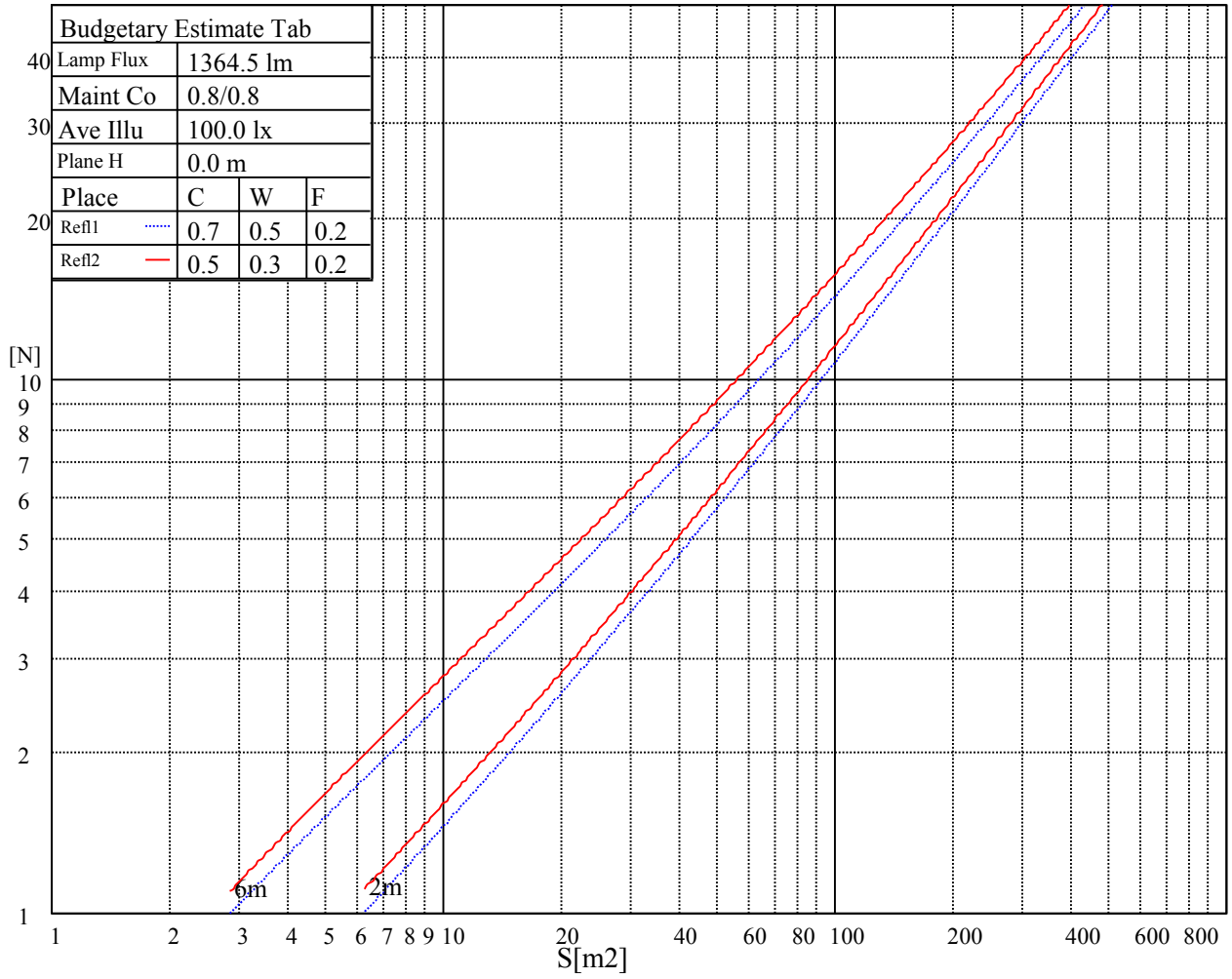


UGR Glare

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	22.53	23.70	22.89	24.01	24.33	22.62	23.80	22.99	24.11	24.42
	3H	23.56	24.60	23.95	24.93	25.30	23.68	24.72	24.06	25.05	25.42
	4H	23.97	24.93	24.37	25.29	25.67	24.12	25.08	24.52	25.43	25.82
	6H	24.31	25.19	24.73	25.57	25.96	24.49	25.37	24.90	25.75	26.14
	8H	24.46	25.30	24.89	25.69	26.09	24.65	25.49	25.09	25.88	26.29
	12H	24.73	25.53	25.16	25.91	26.34	24.95	25.75	25.38	26.13	26.56
4H	2H	22.81	23.78	23.22	24.13	24.52	22.89	23.86	23.30	24.21	24.59
	3H	24.07	24.86	24.48	25.26	25.67	24.17	24.96	24.59	25.37	25.77
	4H	24.59	25.30	25.03	25.72	26.17	24.73	25.44	25.17	25.86	26.30
	6H	25.00	25.61	25.47	26.06	26.53	25.17	25.77	25.63	26.22	26.69
	8H	25.22	25.79	25.69	26.23	26.71	25.40	25.97	25.88	26.42	26.89
	12H	25.54	26.03	26.02	26.52	26.99	25.75	26.25	26.24	26.73	27.21
8H	4H	24.76	25.33	25.24	25.78	26.25	24.89	25.45	25.36	25.90	26.38
	6H	25.32	25.78	25.83	26.28	26.76	25.47	25.93	25.98	26.43	26.92
	8H	25.65	26.06	26.17	26.58	27.07	25.82	26.23	26.35	26.75	27.25
	12H	26.47	26.83	26.99	27.33	27.90	26.67	27.03	27.19	27.53	28.10
12H	4H	24.77	25.27	25.26	25.75	26.23	24.89	25.38	25.38	25.87	26.35
	6H	25.83	25.79	25.91	26.26	26.81	25.98	25.94	26.05	26.40	26.95
	8H	25.77	26.13	26.29	26.63	27.20	25.94	26.30	26.46	26.80	27.37

Variation with the observer position at spacings:		
S = 1.0H	1.0/-1.7	1.0/-1.7
S = 1.5H	2.0/-2.3	2.0/-2.3
S = 2.0H	3.8/-2.4	3.8/-2.4
Standard tables:	BK2	BK2
Uncorrected UGR	9.4	9.4

Budgetary Estimate Table

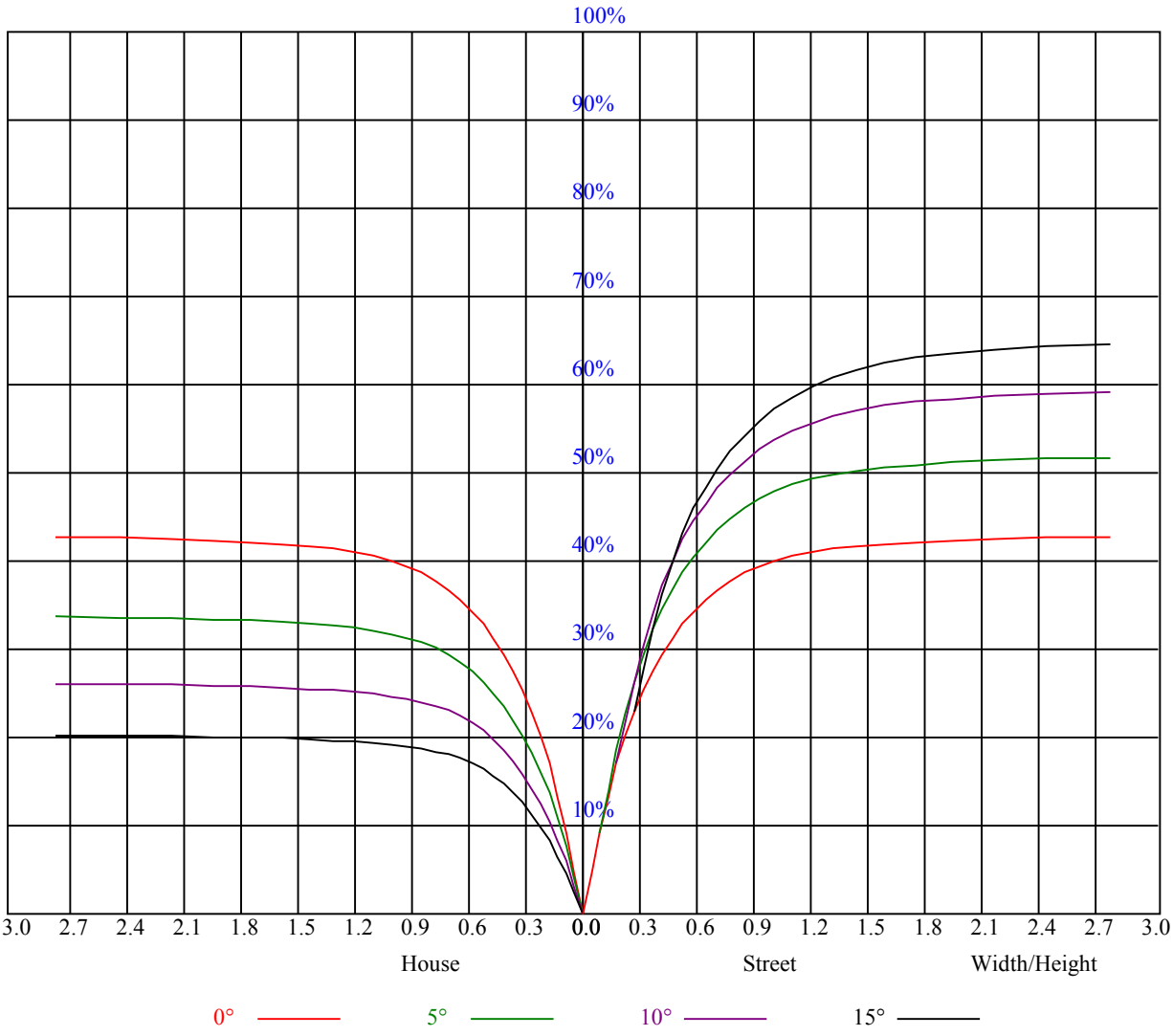


Equipment: GMS1980 Date: 2019/1/4 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.03	1.03	1.03	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.87
1	0.95	0.92	0.90	0.93	0.91	0.89	0.89	0.88	0.86	0.86	0.85	0.84	0.83	0.82	0.81	0.79
2	0.88	0.84	0.80	0.86	0.82	0.79	0.83	0.80	0.78	0.81	0.78	0.76	0.78	0.76	0.74	0.73
3	0.81	0.76	0.73	0.80	0.76	0.72	0.78	0.74	0.71	0.75	0.72	0.70	0.73	0.71	0.69	0.67
4	0.76	0.70	0.66	0.75	0.70	0.66	0.73	0.68	0.65	0.71	0.67	0.64	0.69	0.66	0.64	0.62
5	0.71	0.65	0.61	0.70	0.65	0.61	0.68	0.64	0.60	0.67	0.63	0.60	0.65	0.62	0.59	0.58
6	0.66	0.61	0.57	0.66	0.60	0.57	0.64	0.60	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.54
7	0.62	0.57	0.53	0.62	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.52	0.51
8	0.59	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.50	0.57	0.53	0.50	0.56	0.52	0.49	0.48
9	0.56	0.51	0.47	0.56	0.51	0.47	0.55	0.50	0.47	0.54	0.50	0.47	0.53	0.50	0.47	0.46
10	0.53	0.48	0.45	0.53	0.48	0.45	0.52	0.48	0.45	0.52	0.48	0.45	0.51	0.47	0.44	0.43

Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/4
Humidity(%): 65.0%

Operator: NT07
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	2785.50	2806.31	2791.69	2747.25	2664.00	2550.94	2430.56	2280.38	2136.38
45.0	2809.13	2790.00	2726.44	2644.88	2539.69	2379.38	2237.06	2081.25	1909.69
90.0	2782.69	2719.13	2616.19	2489.06	2360.25	2215.13	2039.06	1860.19	1710.56
135.0	2810.25	2759.06	2657.25	2552.06	2428.88	2274.75	2107.69	1932.75	1782.56
180.0	2785.50	2737.13	2664.56	2536.88	2416.50	2284.31	2118.38	1945.69	1793.25
225.0	2809.13	2802.94	2760.19	2684.25	2590.88	2459.81	2331.00	2175.19	2007.56
270.0	2782.69	2820.94	2827.13	2799.56	2738.81	2636.44	2525.63	2401.31	2245.50
315.0	2810.25	2832.19	2822.06	2769.75	2711.25	2618.44	2477.25	2344.50	2203.31
360.0	2785.50	2806.31	2791.69	2747.25	2664.00	2550.94	2430.56	2280.38	2136.38

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1967.63	1797.75	1650.38	1507.50	1340.44	1218.38	1107.00	981.56	896.63
45.0	1739.25	1586.25	1428.19	1296.56	1169.44	1047.94	954.56	868.50	790.31
90.0	1542.38	1387.13	1262.25	1120.39	1034.94	933.75	849.66	784.80	726.64
135.0	1618.31	1476.00	1328.63	1209.38	1078.31	986.06	901.69	826.88	758.25
180.0	1625.63	1469.81	1339.31	1110.26	1097.38	992.08	892.41	831.66	770.34
225.0	1856.81	1689.75	1510.88	1393.31	1269.56	1101.83	1031.29	944.55	868.33
270.0	2082.94	1953.00	1762.88	1615.50	1474.88	1311.75	1193.06	1088.44	972.00
315.0	2035.13	1862.44	1711.69	1546.31	1390.50	1263.94	1118.70	1029.21	927.34
360.0	1967.63	1797.75	1650.38	1507.50	1340.44	1218.38	1107.00	981.56	896.63

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	823.50	753.75	694.69	650.81	608.06	576.00	546.19	519.19	497.81
45.0	730.69	680.06	625.50	588.38	555.19	524.81	497.81	477.00	456.75
90.0	665.33	624.66	588.88	551.64	525.94	503.16	480.71	460.52	444.54
135.0	707.06	663.19	616.50	583.31	551.81	527.06	502.88	481.50	464.06
180.0	698.40	660.04	621.84	577.18	552.38	527.79	503.44	481.61	463.78
225.0	789.64	735.53	688.84	639.00	604.52	575.21	544.89	519.53	498.88
270.0	890.44	821.25	746.44	694.69	650.25	606.38	569.25	543.38	510.19
315.0	841.61	776.19	719.83	660.71	620.66	586.13	550.07	525.94	504.45
360.0	823.50	753.75	694.69	650.81	608.06	576.00	546.19	519.19	497.81

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	475.88	457.31	441.56	426.38	411.19	396.00	382.50	365.06	352.13
45.0	435.94	419.63	403.31	389.81	373.50	357.75	345.38	328.50	312.75
90.0	427.16	412.65	396.56	380.53	366.64	350.55	333.73	318.66	303.19
135.0	447.19	428.06	412.88	399.38	380.81	365.63	352.13	335.25	316.13
180.0	445.50	430.26	413.38	397.18	382.61	366.58	349.99	335.08	319.89
225.0	478.58	459.34	443.93	426.38	411.75	396.06	379.41	365.34	350.10
270.0	483.75	463.50	442.69	425.81	408.38	392.06	378.00	362.25	345.94
315.0	482.96	463.73	448.54	430.43	418.73	403.59	390.26	375.08	359.78
360.0	475.88	457.31	441.56	426.38	411.19	396.00	382.50	365.06	352.13

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	338.06	321.19	303.75	288.00	274.44	250.59	232.65	214.99	199.63
45.0	298.13	285.19	262.86	247.78	232.82	217.18	198.45	184.16	169.09
90.0	284.34	268.31	252.11	233.72	216.06	200.31	183.26	167.34	153.90
135.0	300.38	287.44	262.97	244.07	227.48	209.08	191.19	176.57	160.88
180.0	300.38	283.84	267.19	246.15	228.83	211.95	195.64	176.74	162.39
225.0	331.26	315.84	299.53	279.00	262.69	246.21	227.53	209.53	193.56
270.0	331.88	317.81	298.69	284.06	273.38	250.09	233.21	218.25	201.43
315.0	342.06	329.63	314.49	292.73	279.23	263.25	244.63	226.35	210.43
360.0	338.06	321.19	303.75	288.00	274.44	250.59	232.65	214.99	199.63

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	183.04	168.75	153.56	140.63	127.24	116.49	104.57	96.19	88.54
45.0	154.35	142.43	131.18	119.48	108.96	100.41	91.91	84.32	77.34
90.0	139.95	128.19	116.33	105.41	96.81	88.03	80.27	74.03	68.34
135.0	147.83	134.27	121.95	111.88	102.60	92.14	84.94	78.02	70.71
180.0	149.01	135.06	122.06	111.66	101.25	92.03	84.77	77.40	71.61
225.0	176.34	161.83	146.59	132.64	121.22	109.58	99.00	90.84	83.42
270.0	185.34	171.51	158.23	143.89	130.61	117.84	108.17	99.11	88.93
315.0	192.54	175.50	160.93	145.80	133.20	120.09	108.73	99.62	91.52
360.0	183.04	168.75	153.56	140.63	127.24	116.49	104.57	96.19	88.54

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	80.04	74.08	68.68	63.84	58.39	54.56	50.96	47.31	43.99
45.0	70.43	65.59	60.58	56.08	52.20	48.88	44.94	42.19	39.54
90.0	62.27	57.77	53.94	49.89	46.35	43.59	40.61	37.86	35.55
135.0	65.31	60.47	55.86	51.69	48.38	45.00	41.85	39.26	36.51
180.0	65.81	60.75	56.81	53.10	48.99	46.01	43.20	39.94	37.52
225.0	75.09	69.24	63.96	58.84	54.23	50.40	46.58	43.20	40.39
270.0	81.73	75.26	68.29	63.28	58.84	54.34	50.34	46.91	43.59
315.0	82.41	76.05	70.31	63.96	59.40	55.46	51.81	47.64	44.66
360.0	80.04	74.08	68.68	63.84	58.39	54.56	50.96	47.31	43.99

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	41.34	38.59	36.11	34.03	31.84	30.26	28.07	26.21	24.69
45.0	36.84	34.31	32.23	30.09	28.07	26.44	24.64	23.23	21.71
90.0	32.96	31.16	29.08	27.11	25.54	23.96	21.94	20.70	19.35
135.0	34.26	31.89	29.70	27.90	26.21	24.24	22.73	21.32	19.63
180.0	35.21	32.85	30.71	28.91	27.00	25.37	23.57	21.94	20.53
225.0	37.58	35.27	32.85	30.54	28.69	27.00	24.86	23.34	21.94
270.0	40.84	38.03	35.72	33.36	31.16	29.14	27.39	25.71	23.96
315.0	41.91	38.87	36.51	34.37	32.12	30.04	28.18	26.33	24.81
360.0	41.34	38.59	36.11	34.03	31.84	30.26	28.07	26.21	24.69

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	23.01	21.43	20.08	19.01	17.44	16.26	15.30	14.01	12.88
45.0	20.14	18.79	17.55	16.09	15.02	14.01	12.71	11.70	10.91
90.0	17.61	16.59	15.41	14.12	12.88	11.87	10.80	9.90	8.94
135.0	18.28	17.04	15.81	14.40	13.39	12.26	11.31	10.29	9.39
180.0	19.01	17.49	16.26	15.08	13.56	12.60	11.64	10.63	9.73
225.0	20.19	18.90	17.61	16.26	14.96	13.89	12.71	11.64	10.69
270.0	22.33	20.93	19.35	17.94	16.76	15.47	14.29	13.28	12.15
315.0	23.18	21.54	20.31	18.90	17.55	16.43	15.30	14.01	13.05
360.0	23.01	21.43	20.08	19.01	17.44	16.26	15.30	14.01	12.88

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.04	10.86	9.96	9.06	8.27	7.54	6.86	6.08	5.63
45.0	9.73	8.94	8.21	7.59	6.92	6.24	5.63	5.29	5.06
90.0	8.04	7.48	6.81	6.19	5.74	5.23	4.95	4.84	4.73
135.0	8.55	7.88	7.26	6.64	6.13	5.57	5.23	5.12	4.89
180.0	8.94	8.16	7.54	6.92	6.41	5.68	5.34	5.18	4.84
225.0	9.79	8.89	8.10	7.37	6.75	6.19	5.63	5.34	5.06
270.0	11.03	10.13	9.28	8.44	7.76	7.03	6.53	5.74	5.40
315.0	11.98	11.14	10.18	9.28	8.55	7.88	7.03	6.30	5.79
360.0	12.04	10.86	9.96	9.06	8.27	7.54	6.86	6.08	5.63

Intensity data(cd)

C/γ(°)	90.0
0.0	5.23
45.0	5.01
90.0	4.73
135.0	4.78
180.0	4.84
225.0	4.89
270.0	5.06
315.0	5.40
360.0	5.23