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NATA

LumCAT: 1406-N
Luminaire: 92.70.051.00

Report No: NATA0100	Voltage(V): 10.2400
Test No: GC2019010816	Current(A): 0.6000
LampCAT: BRIDGELUX V6	Power (W): 6.1440
Lamp flux(lm): 519.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 39	Width(mm): 39
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 444.67
Efficiency(%): 85.68%
Lumens(lm)/Power(W): 72.40
Central intensity(cd): 681.286
Maximum intensity(cd): 681.286
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=36.1
[C90/270]Total=36.1
Field angle(10%Imax): [C0/180]Total=87.6
[C90/270]Total=87.6
Maximum s/h(1/2): C0_180=0.59 C90_270=0.59
Maximum s/h(1/4): C0_180=0.64 C90_270=0.64
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.71%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 95.395%

Equipment: GMS1980	Date: 2019/1/8	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	681.286	0.163	0.163	.031%	.037%
1.0	680.091	1.302	1.465	.251%	.329%
2.0	676.371	2.589	4.053	.499%	.911%
3.0	669.642	3.843	7.896	.741%	1.776%
4.0	660.959	5.056	12.952	.974%	2.913%
5.0	649.392	6.207	19.159	1.196%	4.309%
6.0	635.386	7.283	26.442	1.403%	5.946%
7.0	618.237	8.262	34.705	1.592%	7.805%
8.0	600.047	9.158	43.862	1.765%	9.864%
9.0	578.419	9.923	53.785	1.912%	12.095%
10.0	554.505	10.559	64.344	2.035%	14.470%
11.0	530.543	11.101	75.445	2.139%	16.967%
12.0	504.984	11.514	86.959	2.218%	19.556%
13.0	476.944	11.765	98.724	2.267%	22.202%
14.0	448.643	11.902	110.626	2.293%	24.878%
15.0	422.079	11.980	122.606	2.308%	27.572%
16.0	393.469	11.893	134.499	2.292%	30.247%
17.0	367.341	11.778	146.277	2.269%	32.896%
18.0	342.281	11.599	157.876	2.235%	35.504%
19.0	318.755	11.380	169.256	2.193%	38.063%
20.0	296.107	11.106	180.362	2.140%	40.561%
21.0	276.061	10.849	191.211	2.090%	43.001%
22.0	257.843	10.592	201.803	2.041%	45.383%
23.0	241.622	10.353	212.156	1.995%	47.711%
24.0	226.955	10.123	222.279	1.950%	49.987%
25.0	213.110	9.877	232.155	1.903%	52.208%
26.0	201.396	9.682	241.837	1.865%	54.386%
27.0	190.329	9.476	251.312	1.826%	56.517%
28.0	180.534	9.294	260.607	1.791%	58.607%
29.0	171.148	9.099	269.706	1.753%	60.653%
30.0	163.209	8.949	278.655	1.724%	62.666%
31.0	155.074	8.759	287.413	1.688%	64.635%
32.0	147.241	8.556	295.969	1.649%	66.559%
33.0	140.569	8.396	304.365	1.618%	68.447%
34.0	133.460	8.184	312.549	1.577%	70.288%
35.0	126.612	7.964	320.513	1.534%	72.079%
36.0	119.855	7.725	328.238	1.489%	73.816%
37.0	113.288	7.476	335.715	1.441%	75.498%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	106.158	7.167	342.882	1.381%	77.109%
39.0	99.366	6.857	349.739	1.321%	78.651%
40.0	92.756	6.538	356.278	1.260%	80.122%
41.0	86.112	6.195	362.473	1.194%	81.515%
42.0	79.552	5.837	368.31	1.125%	82.828%
43.0	72.963	5.457	373.767	1.051%	84.055%
44.0	66.966	5.101	378.868	.983%	85.202%
45.0	61.059	4.735	383.603	.912%	86.267%
46.0	55.863	4.407	388.009	.849%	87.258%
47.0	50.653	4.062	392.072	.783%	88.171%
48.0	46.167	3.762	395.834	.725%	89.018%
49.0	41.871	3.465	399.3	.668%	89.797%
50.0	37.948	3.188	402.487	.614%	90.514%
51.0	34.615	2.950	405.437	.568%	91.177%
52.0	31.816	2.749	408.187	.530%	91.795%
53.0	28.934	2.534	410.721	.488%	92.365%
54.0	26.508	2.352	413.072	.453%	92.894%
55.0	24.518	2.202	415.275	.424%	93.390%
56.0	22.563	2.051	417.326	.395%	93.851%
57.0	20.876	1.920	419.246	.370%	94.283%
58.0	19.392	1.803	421.049	.347%	94.688%
59.0	18.035	1.695	422.745	.327%	95.069%
60.0	16.734	1.589	424.334	.306%	95.427%
61.0	15.609	1.497	425.831	.288%	95.763%
62.0	14.576	1.411	427.242	.272%	96.081%
63.0	13.577	1.327	428.569	.256%	96.379%
64.0	12.677	1.250	429.819	.241%	96.660%
65.0	11.827	1.175	430.994	.226%	96.925%
66.0	11.081	1.110	432.104	.214%	97.174%
67.0	10.357	1.045	433.15	.201%	97.409%
68.0	9.696	0.986	434.135	.190%	97.631%
69.0	9.028	0.924	435.06	.178%	97.839%
70.0	8.466	0.872	435.932	.168%	98.035%
71.0	7.896	0.819	436.751	.158%	98.219%
72.0	7.327	0.764	437.515	.147%	98.391%
73.0	6.855	0.719	438.234	.139%	98.553%
74.0	6.384	0.673	438.907	.130%	98.704%
75.0	5.906	0.626	439.532	.121%	98.845%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.463	0.581	440.114	.112%	98.975%
77.0	5.063	0.541	440.655	.104%	99.097%
78.0	4.641	0.498	441.152	.096%	99.209%
79.0	4.282	0.461	441.613	.089%	99.313%
80.0	3.909	0.422	442.036	.081%	99.408%
81.0	3.558	0.385	442.421	.074%	99.494%
82.0	3.241	0.352	442.773	.068%	99.573%
83.0	2.960	0.322	443.095	.062%	99.646%
84.0	2.714	0.296	443.391	.057%	99.712%
85.0	2.496	0.273	443.664	.053%	99.774%
86.0	2.278	0.249	443.913	.048%	99.830%
87.0	2.116	0.232	444.145	.045%	99.882%
88.0	1.976	0.217	444.361	.042%	99.931%
89.0	1.898	0.208	444.569	.040%	99.977%
90.0	1.828	0.100	444.67	.019%	100.000%

Zonal flux distribution table

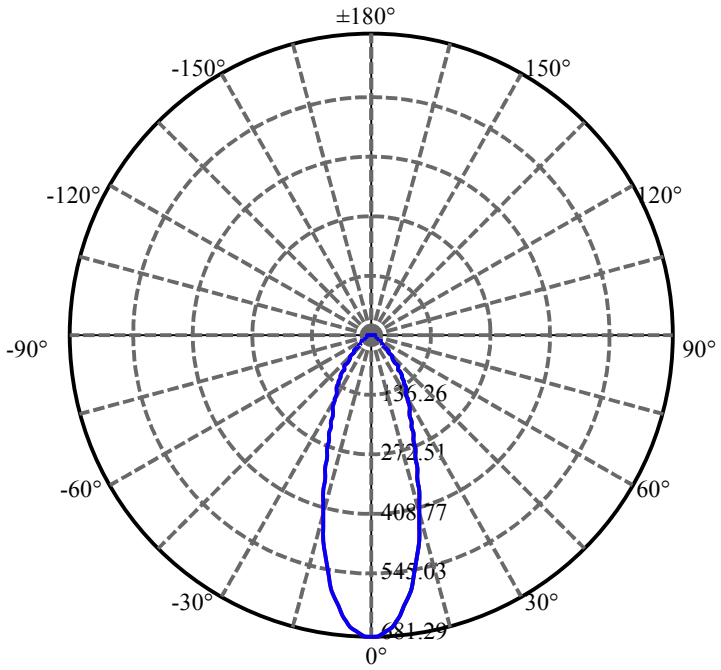
ZONAL LUMEN SUMMARY

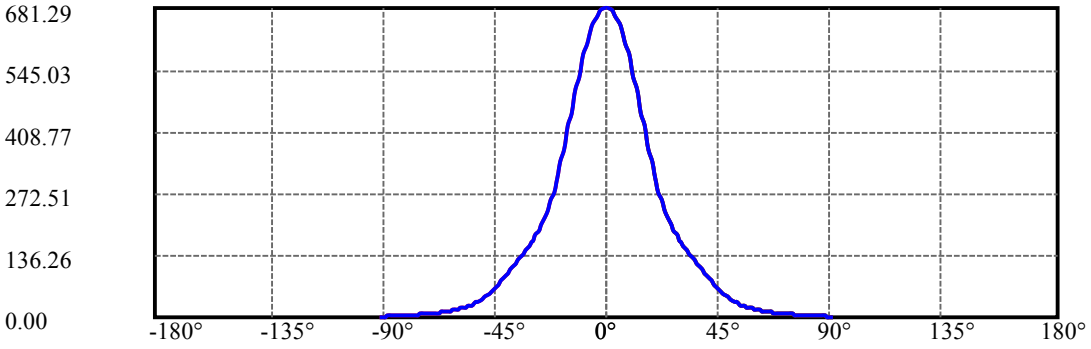
Zone	Lumens	%Lamp	%Fixt
0-30	278.65	53.69%	62.67%
0-40	356.28	68.65%	80.12%
0-60	424.33	81.76%	95.43%
0-90	444.57	85.66%	99.98%
0-120	444.57	85.66%	99.98%
0-180	444.67	85.68%	100.00%
60-90	21.82	4.21%	4.91%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-39.92	355.74	68.54%	80.00%

ZONAL LUMEN SUMMARY

0-10	64.34
10-20	116.02
20-30	98.29
30-40	77.62
40-50	46.21
50-60	21.85
60-70	11.60
70-80	6.10
80-90	2.53
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):

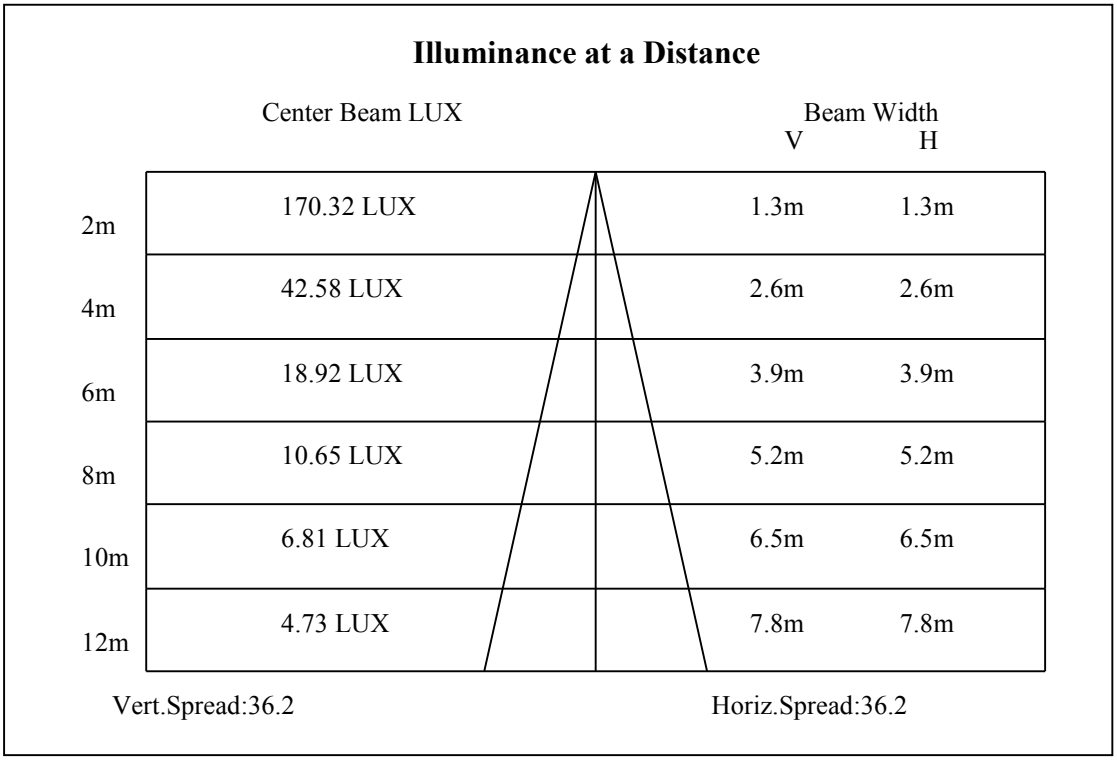
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:43.8 Right:43.8
:C90/270Left:43.8 Right:43.8

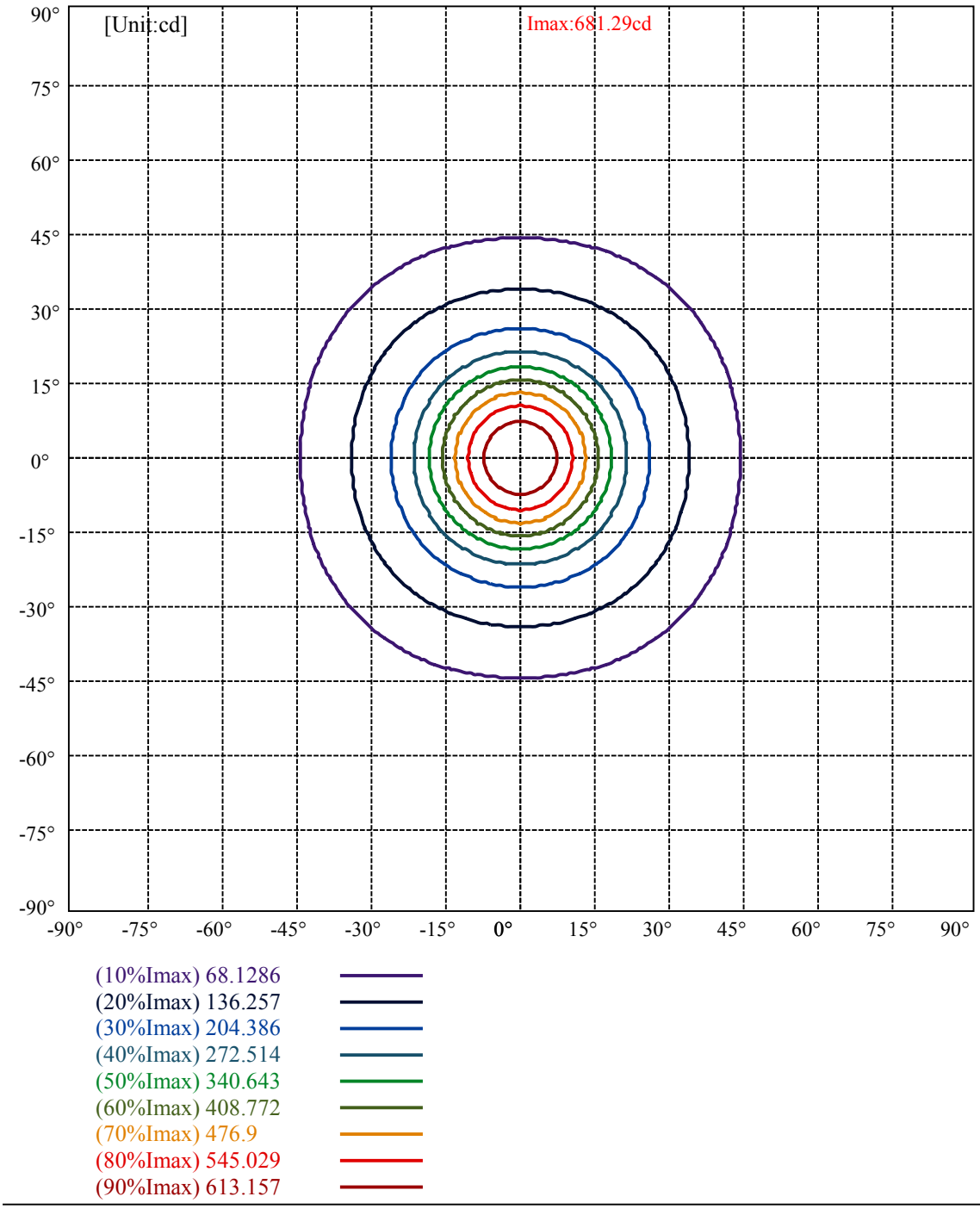
Beam Angle(50%Imax):C0/180Left:18.1 Right:18.1
:C90/270Left:18.1 Right:18.1

Lux distance Curve



Equipment: GMS1980 Date: 2019/1/8 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)



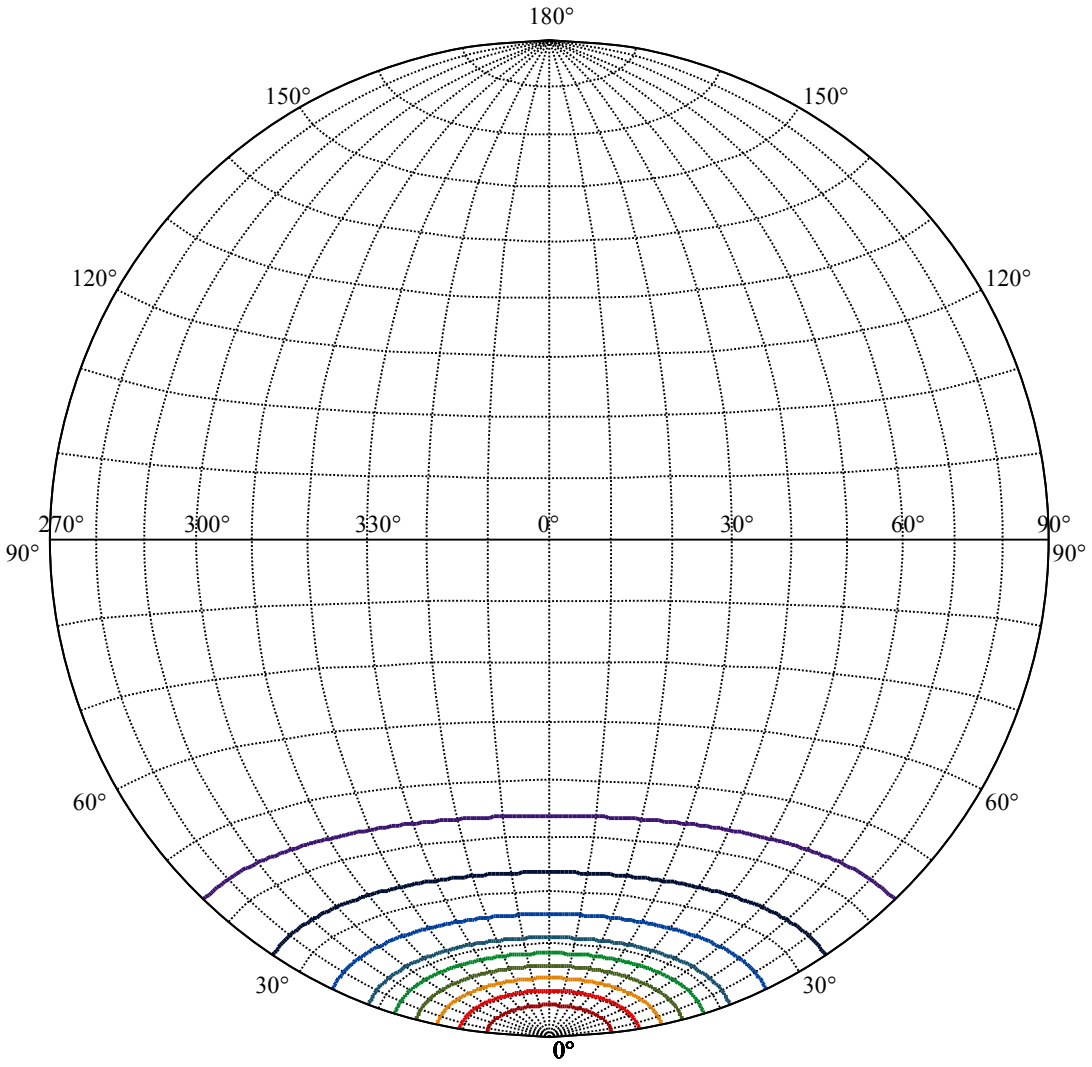
(10%Imax) 68.1286
(20%Imax) 136.257
(30%Imax) 204.386
(40%Imax) 272.514
(50%Imax) 340.643
(60%Imax) 408.772
(70%Imax) 476.9
(80%Imax) 545.029
(90%Imax) 613.157

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/8
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web

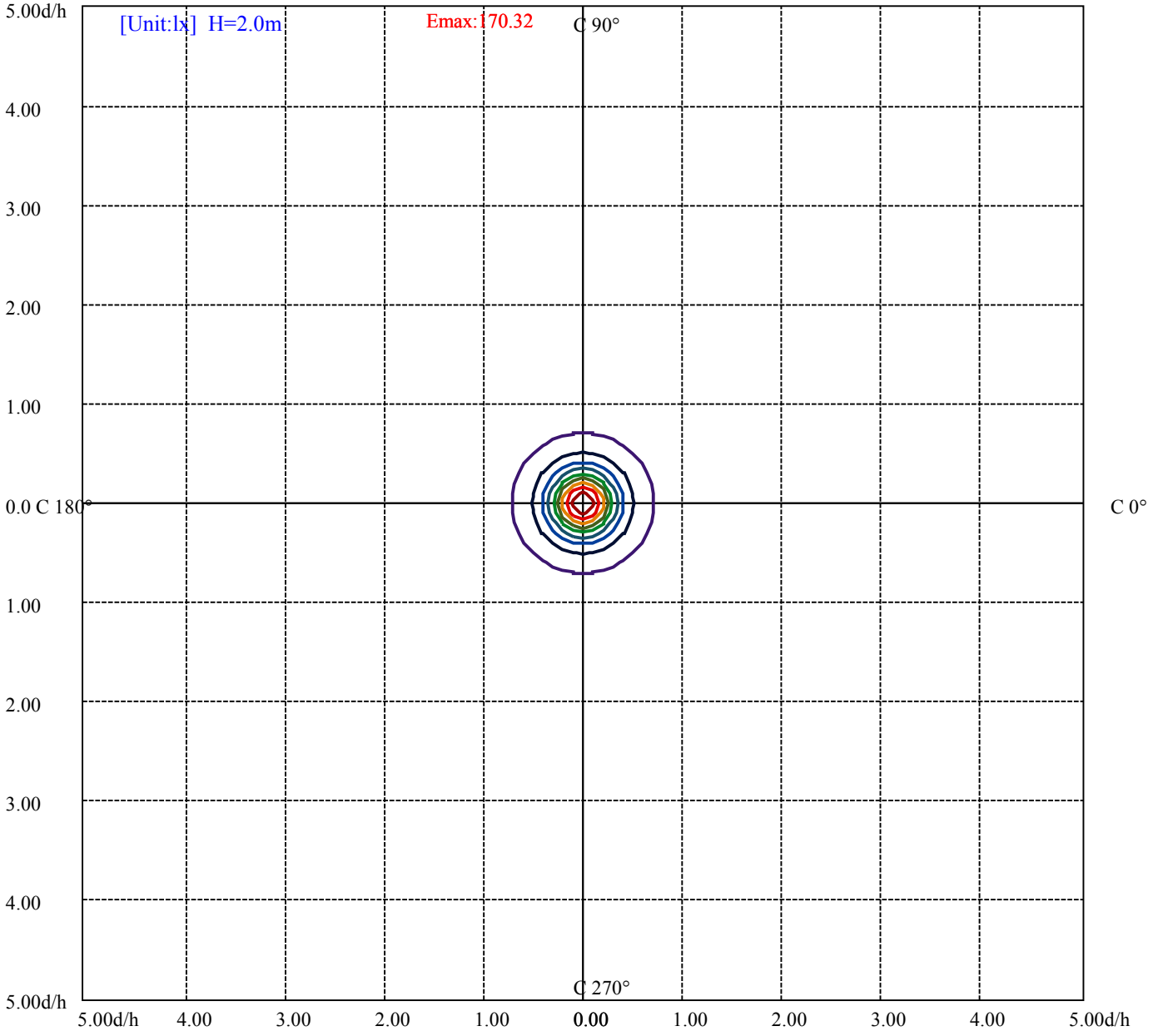


House [Unit:cd] Road

Imax:681.29

(10%Imax) 68.1286
(20%Imax) 136.257
(30%Imax) 204.386
(40%Imax) 272.514
(50%Imax) 340.643
(60%Imax) 408.772
(70%Imax) 476.9
(80%Imax) 545.029
(90%Imax) 613.157

ISO illuminance diagram



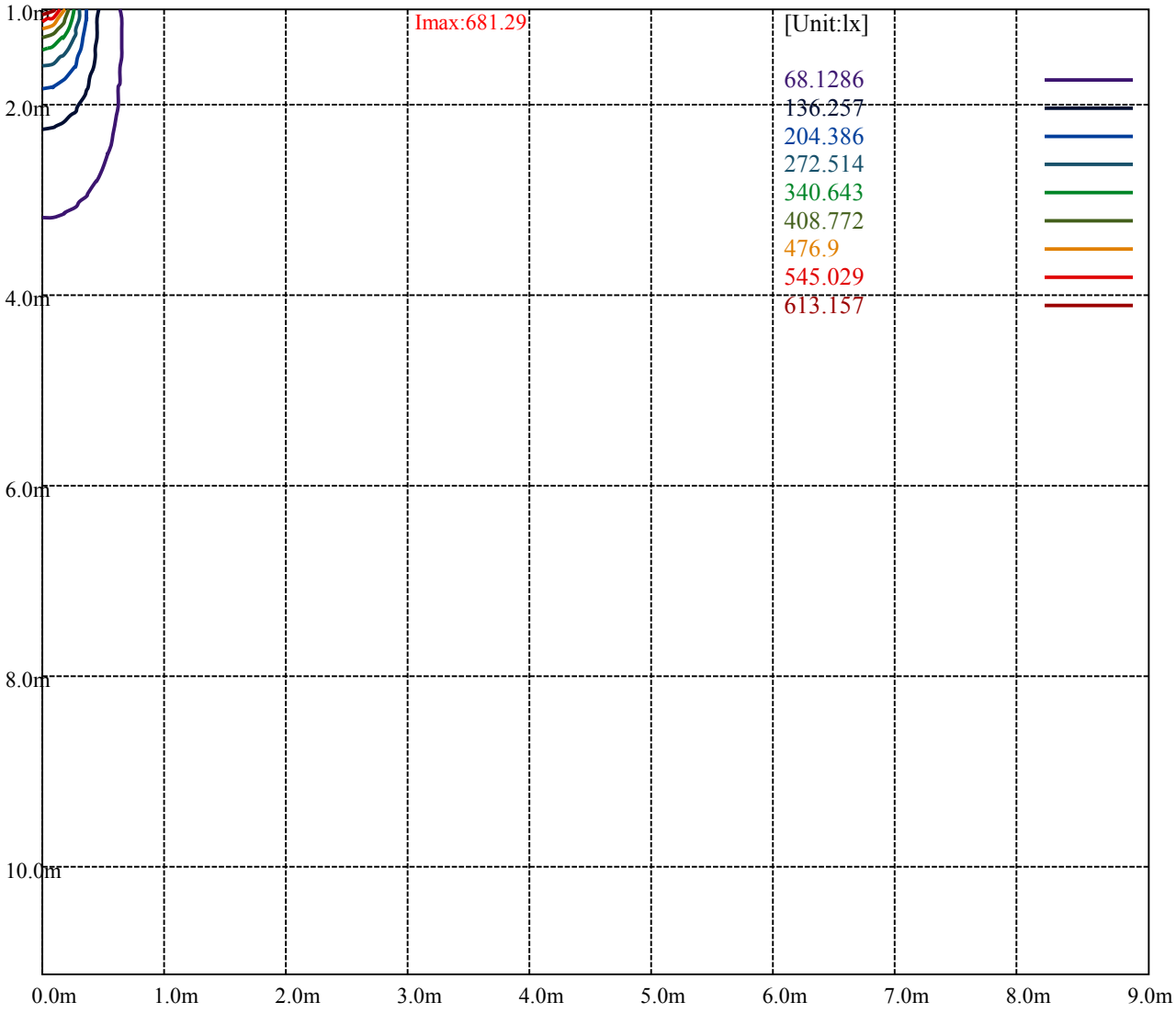
(10%Emax) 17.03215
(20%Emax) 34.06425
(30%Emax) 51.0965
(40%Emax) 68.1285
(50%Emax) 85.16075
(60%Emax) 102.1927
(70%Emax) 119.225
(80%Emax) 136.2572
(90%Emax) 153.2892

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/8
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/8
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

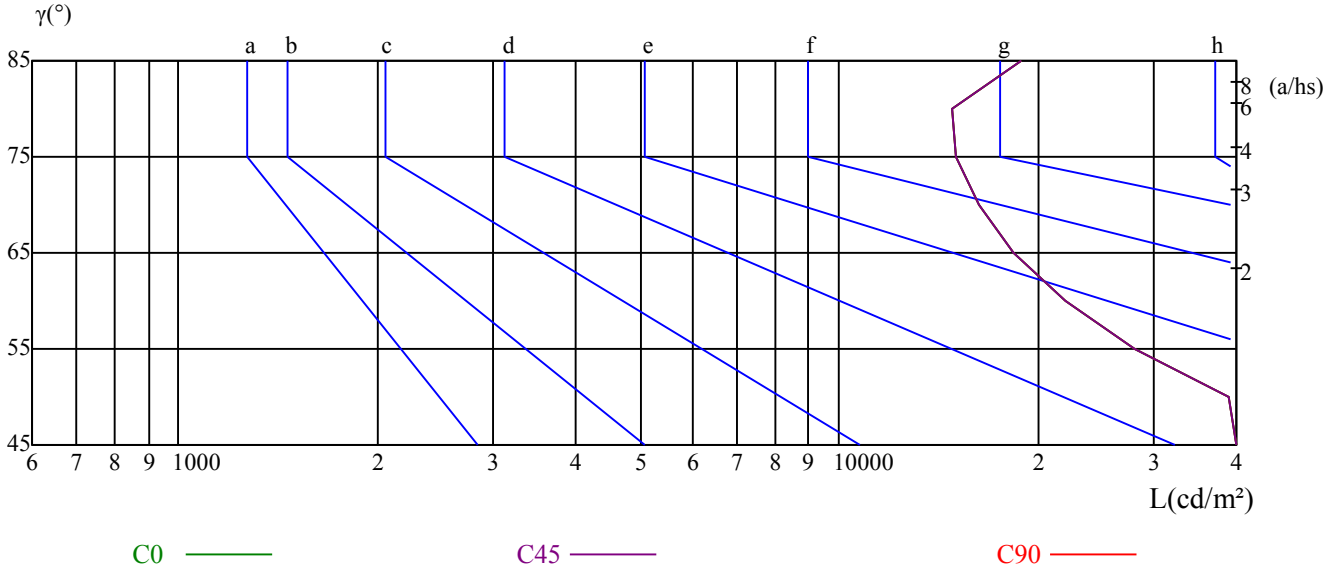
γ	45	50	55	60	65	70	75	80	85
C0	56773	38814	28104	22004	18398	16273	15003	14802	18829
C45	56773	38814	28104	22004	18398	16273	15003	14802	18829
C90	56773	38814	28104	22004	18398	16273	15003	14802	18829

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
18398	18398	18398	15003	15003	15003	18829	18829	18829

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



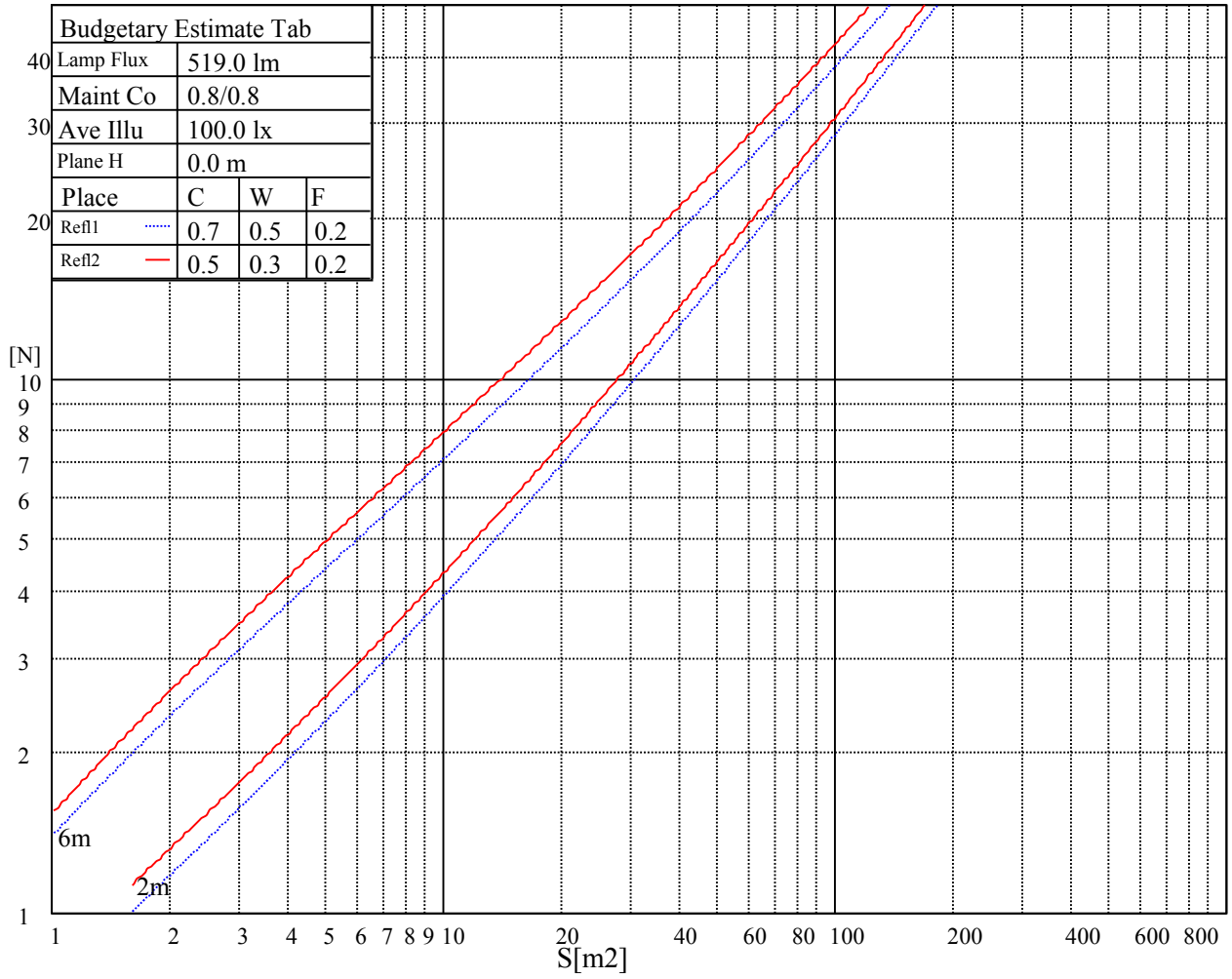
UGR Glare

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	22.20	23.36	22.56	23.68	23.99	22.43	23.60	22.80	23.91	24.23
	3H	23.23	24.26	23.61	24.59	24.96	23.45	24.48	23.83	24.81	25.18
	4H	23.63	24.59	24.03	24.94	25.32	23.86	24.82	24.26	25.17	25.56
	6H	23.97	24.85	24.39	25.22	25.62	24.21	25.09	24.63	25.46	25.86
	8H	24.12	24.95	24.55	25.34	25.75	24.37	25.20	24.80	25.59	26.00
	12H	24.38	25.18	24.82	25.56	25.99	24.64	25.43	25.07	25.82	26.25
4H	2H	22.49	23.45	22.89	23.80	24.19	22.69	23.65	23.10	24.00	24.39
	3H	23.74	24.52	24.15	24.93	25.34	23.93	24.71	24.34	25.12	25.52
	4H	24.26	24.96	24.70	25.38	25.83	24.46	25.16	24.90	25.58	26.03
	6H	24.67	25.27	25.14	25.72	26.19	24.88	25.48	25.35	25.93	26.40
	8H	24.89	25.45	25.36	25.90	26.37	25.10	25.67	25.58	26.11	26.59
	12H	25.20	25.69	25.68	26.17	26.65	25.43	25.92	25.92	26.41	26.88
8H	4H	24.43	25.00	24.91	25.45	25.92	24.61	25.18	25.09	25.63	26.10
	6H	24.99	25.45	25.50	25.95	26.43	25.18	25.63	25.68	26.13	26.62
	8H	25.31	25.72	25.84	26.24	26.73	25.51	25.92	26.04	26.44	26.93
	12H	26.13	26.49	26.65	26.99	27.56	26.33	26.69	26.85	27.19	27.76
12H	4H	24.44	24.93	24.93	25.42	25.89	24.61	25.11	25.10	25.59	26.07
	6H	25.49	25.45	25.58	25.92	26.47	25.67	25.63	25.76	26.10	26.65
	8H	25.43	25.79	25.95	26.29	26.86	25.62	25.98	26.14	26.48	27.05

Variation with the observer position at spacings:		
S = 1.0H	1.1/-1.9	1.1/-1.9
S = 1.5H	2.3/-2.4	2.3/-2.4
S = 2.0H	4.1/-2.5	4.1/-2.5
Standard tables:	BK2	BK2
Uncorrected UGR	5.8	5.8

Budgetary Estimate Table

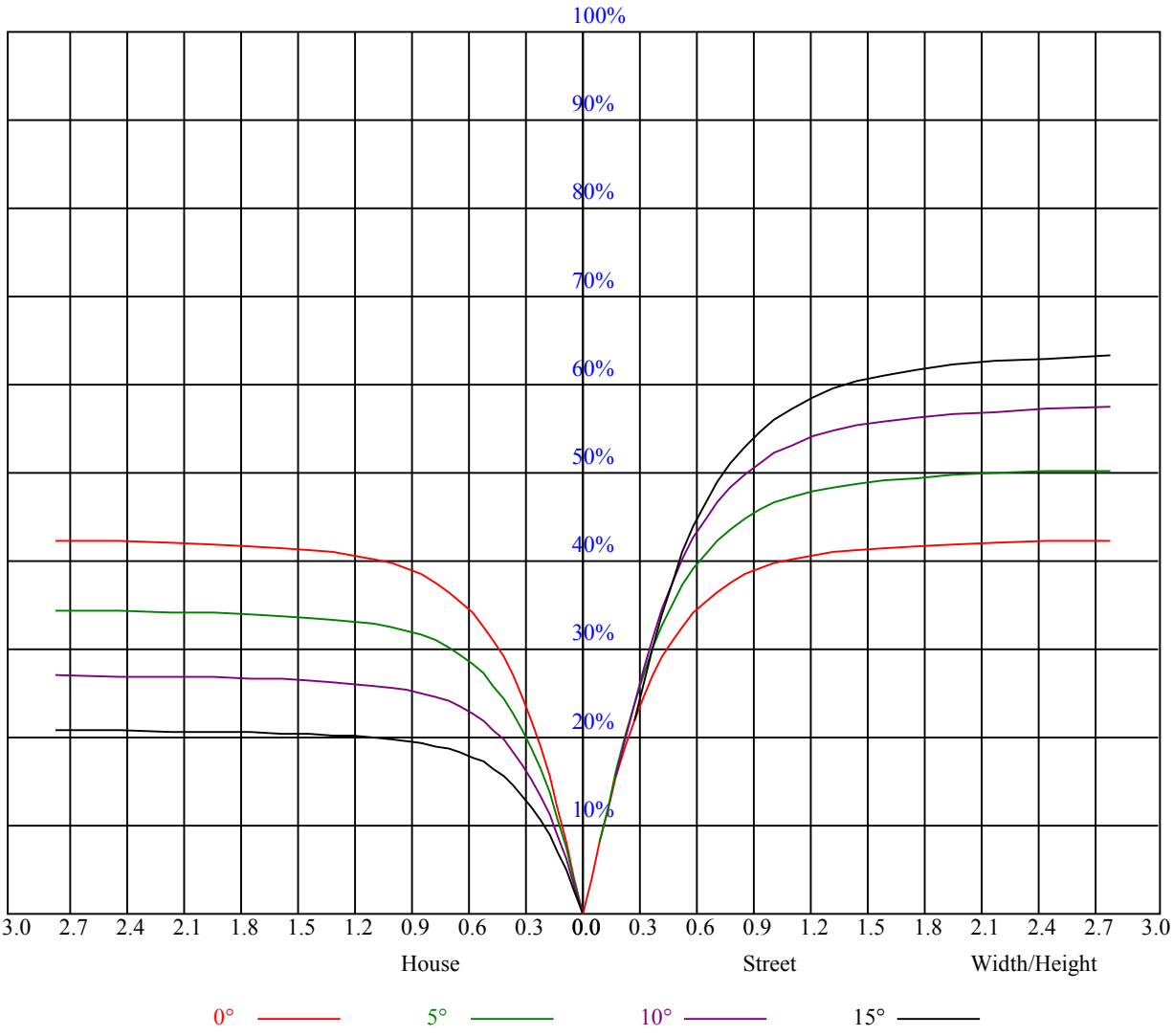


Equipment: GMS1980 Date: 2019/1/8 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.02	1.02	1.02	1.00	1.00	1.00	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.86
1	0.94	0.91	0.89	0.92	0.90	0.88	0.88	0.87	0.85	0.85	0.84	0.83	0.82	0.81	0.80	0.79
2	0.86	0.83	0.79	0.85	0.81	0.78	0.82	0.79	0.77	0.80	0.77	0.75	0.77	0.75	0.73	0.72
3	0.80	0.75	0.72	0.79	0.74	0.71	0.76	0.73	0.70	0.74	0.71	0.69	0.72	0.70	0.68	0.66
4	0.74	0.69	0.65	0.73	0.69	0.65	0.71	0.67	0.64	0.70	0.66	0.63	0.68	0.65	0.63	0.61
5	0.69	0.64	0.60	0.69	0.63	0.60	0.67	0.63	0.59	0.65	0.62	0.59	0.64	0.61	0.58	0.57
6	0.65	0.59	0.56	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.54	0.53
7	0.61	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.51	0.58	0.54	0.51	0.57	0.54	0.51	0.50
8	0.58	0.52	0.49	0.57	0.52	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.54	0.51	0.48	0.47
9	0.54	0.49	0.46	0.54	0.49	0.46	0.53	0.49	0.45	0.52	0.48	0.45	0.52	0.48	0.45	0.44
10	0.52	0.47	0.43	0.51	0.46	0.43	0.51	0.46	0.43	0.50	0.46	0.43	0.49	0.45	0.43	0.42

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/1/8	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	678.38	676.80	672.36	664.76	655.71	642.99	627.81	612.00	594.23
45.0	684.39	681.41	675.90	666.06	655.99	643.78	625.22	607.95	589.11
90.0	682.14	678.21	671.23	661.67	650.87	635.74	619.82	599.18	576.17
135.0	680.23	678.71	674.44	668.53	659.25	646.93	633.88	616.56	599.06
180.0	678.38	677.59	674.83	669.21	660.71	650.87	638.66	620.72	603.84
225.0	684.39	685.24	683.78	679.39	672.47	663.64	652.67	635.68	619.93
270.0	682.14	683.83	682.76	679.33	673.20	662.57	651.60	637.93	620.27
315.0	680.23	678.94	675.68	668.19	659.48	648.62	633.43	615.88	597.77
360.0	678.38	676.80	672.36	664.76	655.71	642.99	627.81	612.00	594.23

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	570.09	548.89	525.94	498.83	470.87	445.33	419.91	388.52	364.28
45.0	563.51	540.56	516.43	488.36	459.56	433.80	405.17	377.78	354.83
90.0	554.01	527.18	499.39	474.13	448.37	416.08	390.99	366.53	336.83
135.0	577.29	553.11	529.88	505.74	474.58	449.04	423.56	391.95	368.16
180.0	585.06	559.46	537.69	514.74	487.69	459.96	435.21	407.70	380.42
225.0	602.10	576.96	554.34	530.44	502.26	473.18	447.02	417.32	391.22
270.0	599.91	579.60	554.51	529.82	500.63	469.86	442.35	411.13	381.15
315.0	575.38	550.29	526.16	497.81	471.60	441.90	412.43	386.83	361.86
360.0	570.09	548.89	525.94	498.83	470.87	445.33	419.91	388.52	364.28

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	341.44	317.36	295.31	277.14	258.41	243.45	228.26	214.54	203.23
45.0	329.46	308.59	286.88	267.92	251.38	236.25	221.06	209.93	199.18
90.0	314.21	293.34	269.78	252.62	237.26	220.33	209.48	196.88	184.28
135.0	344.14	318.71	295.31	276.58	256.73	240.24	225.06	211.44	200.19
180.0	356.85	331.76	311.01	289.24	269.83	254.31	240.02	223.88	212.18
225.0	363.66	337.44	315.68	293.06	272.48	255.71	240.86	224.38	212.68
270.0	355.44	331.31	303.30	282.77	263.81	244.58	227.53	213.75	199.86
315.0	333.06	311.51	291.60	269.16	252.84	238.11	223.37	210.09	199.58
360.0	341.44	317.36	295.31	277.14	258.41	243.45	228.26	214.54	203.23

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	191.64	181.29	172.86	165.09	155.98	149.18	143.27	134.38	127.86
45.0	186.86	178.26	169.99	161.55	153.34	146.42	138.54	132.13	124.82
90.0	176.12	167.63	156.49	149.79	142.71	133.37	127.69	121.50	114.58
135.0	188.66	178.43	169.99	162.28	153.39	146.64	140.23	132.64	125.78
180.0	201.54	189.34	180.11	171.68	162.68	154.18	147.04	139.33	132.64
225.0	201.94	192.15	181.35	173.25	165.88	157.05	150.41	143.78	136.46
270.0	187.20	177.30	167.40	159.47	151.09	143.16	136.58	129.43	122.46
315.0	188.66	179.89	171.00	162.56	155.53	147.94	140.79	134.49	128.31
360.0	191.64	181.29	172.86	165.09	155.98	149.18	143.27	134.38	127.86

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	122.40	114.36	107.10	101.48	93.43	87.13	81.11	73.52	67.73
45.0	117.68	111.21	103.89	96.69	90.17	83.76	75.88	69.92	64.07
90.0	107.72	101.59	94.73	87.98	82.01	75.38	69.69	63.56	58.05
135.0	119.64	113.46	105.24	99.00	92.53	85.22	78.24	72.28	65.93
180.0	125.16	117.68	111.15	103.67	96.13	89.49	83.03	75.21	69.30
225.0	129.32	123.08	115.93	108.79	102.38	95.06	88.65	81.56	74.70
270.0	116.27	110.31	102.66	96.58	90.62	84.04	77.74	72.23	66.15
315.0	120.66	114.64	108.56	100.74	94.78	88.82	82.07	75.43	69.81
360.0	122.40	114.36	107.10	101.48	93.43	87.13	81.11	73.52	67.73

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	62.21	55.80	50.85	46.41	41.34	37.74	34.48	31.33	28.58
45.0	57.32	52.43	47.81	42.98	38.59	35.21	31.89	29.19	26.49
90.0	53.27	48.83	43.76	39.94	36.45	32.68	29.93	27.39	25.14
135.0	59.91	55.13	50.06	45.84	41.57	37.80	34.76	32.40	28.63
180.0	63.62	57.71	52.48	48.09	43.59	39.54	36.28	33.08	30.38
225.0	68.68	62.83	56.31	51.41	46.97	41.91	38.36	35.21	32.06
270.0	60.53	55.80	50.85	46.63	42.41	38.93	35.49	32.79	29.70
315.0	62.94	58.39	53.10	48.04	44.04	39.77	35.72	33.13	30.49
360.0	62.21	55.80	50.85	46.41	41.34	37.74	34.48	31.33	28.58

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.44	24.24	22.28	20.64	19.18	17.83	16.54	15.41	14.40
45.0	24.19	22.28	20.42	18.79	17.55	16.43	15.19	14.12	13.22
90.0	22.78	21.09	19.63	18.11	16.82	15.75	14.63	13.67	12.77
135.0	26.61	24.75	22.39	20.87	19.63	18.00	16.71	15.81	14.57
180.0	27.84	25.54	23.68	21.99	20.14	18.79	17.55	16.14	15.13
225.0	29.25	27.00	24.81	23.01	21.15	19.58	18.28	16.93	15.75
270.0	27.62	25.65	23.57	21.94	20.53	19.07	17.72	16.59	15.58
315.0	27.34	25.59	23.74	21.66	20.14	18.84	17.27	16.20	15.19
360.0	26.44	24.24	22.28	20.64	19.18	17.83	16.54	15.41	14.40

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.50	12.49	11.70	11.08	10.29	9.62	9.06	8.49	7.93
45.0	12.26	11.48	10.74	10.01	9.39	8.83	8.27	7.82	7.26
90.0	11.93	11.19	10.52	9.79	9.23	8.66	7.99	7.48	7.03
135.0	13.67	12.77	11.81	11.14	10.41	9.68	9.11	8.55	7.93
180.0	14.18	13.05	12.21	11.42	10.63	10.01	9.28	8.66	8.16
225.0	14.68	13.73	12.71	11.93	11.14	10.35	9.62	9.00	8.38
270.0	14.46	13.50	12.66	11.87	11.03	10.35	9.68	9.00	8.33
315.0	13.95	13.22	12.26	11.42	10.74	10.07	9.23	8.72	8.16
360.0	13.50	12.49	11.70	11.08	10.29	9.62	9.06	8.49	7.93

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.37	6.92	6.47	5.96	5.51	5.12	4.73	4.39	4.05
45.0	6.81	6.36	5.91	5.51	5.12	4.73	4.33	3.99	3.71
90.0	6.47	6.08	5.63	5.18	4.78	4.44	4.05	3.77	3.43
135.0	7.37	6.92	6.41	5.96	5.57	5.06	4.67	4.39	3.94
180.0	7.65	6.98	6.58	6.08	5.51	5.18	4.73	4.33	3.94
225.0	7.76	7.31	6.69	6.24	5.74	5.34	4.95	4.50	4.05
270.0	7.76	7.26	6.81	6.24	5.85	5.40	4.89	4.50	4.16
315.0	7.43	7.03	6.58	6.08	5.63	5.23	4.78	4.39	3.99
360.0	7.37	6.92	6.47	5.96	5.51	5.12	4.73	4.39	4.05

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.66	3.32	3.09	2.76	2.59	2.36	2.19	2.08	1.97
45.0	3.32	3.04	2.81	2.64	2.48	2.31	2.08	1.97	1.91
90.0	3.09	2.87	2.59	2.42	2.19	2.03	1.80	1.74	1.80
135.0	3.54	3.26	2.98	2.70	2.48	2.31	2.14	1.97	1.91
180.0	3.60	3.21	2.98	2.70	2.48	2.25	2.14	1.97	1.86
225.0	3.77	3.43	3.09	2.87	2.59	2.31	2.19	2.08	1.91
270.0	3.77	3.43	3.04	2.81	2.59	2.31	2.19	1.97	1.91
315.0	3.71	3.38	3.09	2.81	2.59	2.36	2.19	2.03	1.91
360.0	3.66	3.32	3.09	2.76	2.59	2.36	2.19	2.08	1.97

Intensity data(cd)

C/γ(°)	90.0
0.0	1.91
45.0	1.86
90.0	1.74
135.0	1.80
180.0	1.74
225.0	1.86
270.0	1.86
315.0	1.86
360.0	1.91