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

Nata

LumCAT: 5-1065-N
Luminaire:

Report No: nata-0100	Voltage(V): 13.7000
Test No: GC2018081101	Current(A): 0.2000
LampCAT: LUMINUS SST20	Power (W): 2.7400
Lamp flux(lm): 320.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 30	Width(mm): 135
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 213.43
Efficiency(%): 66.70%
Lumens(lm)/Power(W): 77.89
Central intensity(cd): 1167.333
Maximum intensity(cd): 1167.333
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=18.0
[C90/270]Total=18.0
Field angle(10%Imax): [C0/180]Total=44.1
[C90/270]Total=44.1
Maximum s/h(1/2): C0_180=0.31 C90_270=0.31
Maximum s/h(1/4): C0_180=0.34 C90_270=0.34
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 66.70%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.132%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1167.333	0.000	0	.000%	.000%
1.0	1147.602	1.108	1.108	.346%	.519%
2.0	1111.334	3.242	4.35	1.013%	2.038%
3.0	1065.520	5.206	9.556	1.627%	4.478%
4.0	993.341	6.892	16.448	2.154%	7.707%
5.0	917.962	8.222	24.67	2.569%	11.559%
6.0	825.763	9.164	33.834	2.864%	15.853%
7.0	738.561	9.710	43.544	3.034%	20.402%
8.0	662.308	10.026	53.569	3.133%	25.100%
9.0	583.653	10.098	63.667	3.156%	29.831%
10.0	509.458	9.892	73.56	3.091%	34.466%
11.0	452.006	9.607	83.167	3.002%	38.967%
12.0	398.787	9.300	92.467	2.906%	43.325%
13.0	344.653	8.823	101.29	2.757%	47.459%
14.0	306.499	8.335	109.624	2.605%	51.364%
15.0	274.085	7.971	117.595	2.491%	55.099%
16.0	244.113	7.593	125.188	2.373%	58.656%
17.0	210.763	7.084	132.272	2.214%	61.975%
18.0	188.431	6.582	138.853	2.057%	65.059%
19.0	167.144	6.186	145.04	1.933%	67.958%
20.0	148.948	5.785	150.825	1.808%	70.669%
21.0	132.658	5.407	156.232	1.690%	73.202%
22.0	117.311	5.023	161.256	1.570%	75.556%
23.0	105.041	4.666	165.921	1.458%	77.742%
24.0	92.316	4.315	170.236	1.348%	79.764%
25.0	80.740	3.935	174.171	1.230%	81.607%
26.0	71.580	3.596	177.767	1.124%	83.292%
27.0	63.046	3.294	181.06	1.029%	84.835%
28.0	53.515	2.951	184.011	.922%	86.218%
29.0	46.736	2.623	186.634	.820%	87.447%
30.0	40.542	2.356	188.991	.736%	88.551%
31.0	34.121	2.078	191.068	.649%	89.524%
32.0	29.180	1.814	192.882	.567%	90.374%
33.0	25.257	1.604	194.486	.501%	91.126%
34.0	21.851	1.426	195.911	.446%	91.794%
35.0	18.898	1.266	197.177	.395%	92.387%
36.0	16.655	1.132	198.309	.354%	92.917%
37.0	14.714	1.023	199.332	.320%	93.396%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	13.145	0.930	200.262	.291%	93.832%
39.0	11.644	0.846	201.108	.264%	94.228%
40.0	10.385	0.768	201.876	.240%	94.588%
41.0	9.373	0.704	202.58	.220%	94.918%
42.0	8.451	0.648	203.227	.202%	95.222%
43.0	7.591	0.594	203.822	.186%	95.500%
44.0	6.923	0.548	204.369	.171%	95.757%
45.0	6.338	0.510	204.879	.159%	95.995%
46.0	5.691	0.470	205.35	.147%	96.216%
47.0	5.223	0.434	205.784	.136%	96.419%
48.0	4.797	0.405	206.189	.127%	96.609%
49.0	4.405	0.378	206.567	.118%	96.786%
50.0	4.026	0.351	206.918	.110%	96.951%
51.0	3.730	0.328	207.246	.103%	97.105%
52.0	3.434	0.307	207.554	.096%	97.249%
53.0	3.173	0.287	207.841	.090%	97.383%
54.0	2.952	0.270	208.111	.084%	97.510%
55.0	2.753	0.255	208.366	.080%	97.629%
56.0	2.567	0.240	208.606	.075%	97.742%
57.0	2.388	0.227	208.833	.071%	97.848%
58.0	2.230	0.214	209.046	.067%	97.948%
59.0	2.085	0.202	209.248	.063%	98.042%
60.0	1.948	0.191	209.438	.060%	98.132%
61.0	1.803	0.179	209.617	.056%	98.216%
62.0	1.679	0.168	209.785	.052%	98.294%
63.0	1.576	0.158	209.944	.049%	98.368%
64.0	1.466	0.149	210.093	.047%	98.438%
65.0	1.370	0.140	210.233	.044%	98.504%
66.0	1.308	0.134	210.367	.042%	98.567%
67.0	1.266	0.129	210.496	.040%	98.627%
68.0	1.246	0.127	210.623	.040%	98.687%
69.0	1.232	0.126	210.75	.039%	98.746%
70.0	1.225	0.126	210.876	.039%	98.805%
71.0	1.239	0.127	211.003	.040%	98.865%
72.0	1.259	0.130	211.133	.041%	98.926%
73.0	1.280	0.133	211.266	.041%	98.988%
74.0	1.287	0.135	211.401	.042%	99.051%
75.0	1.308	0.137	211.538	.043%	99.115%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	1.301	0.138	211.677	.043%	99.180%
77.0	1.163	0.131	211.808	.041%	99.242%
78.0	1.025	0.117	211.925	.037%	99.297%
79.0	0.977	0.108	212.033	.034%	99.347%
80.0	0.950	0.104	212.137	.032%	99.396%
81.0	0.922	0.101	212.238	.032%	99.443%
82.0	0.895	0.099	212.336	.031%	99.489%
83.0	0.943	0.100	212.436	.031%	99.536%
84.0	1.039	0.108	212.544	.034%	99.587%
85.0	1.335	0.130	212.674	.040%	99.648%
86.0	1.390	0.149	212.823	.047%	99.717%
87.0	1.370	0.151	212.974	.047%	99.788%
88.0	1.363	0.150	213.123	.047%	99.858%
89.0	1.349	0.149	213.272	.046%	99.928%
90.0	1.459	0.154	213.426	.048%	100.000%

Zonal flux distribution table

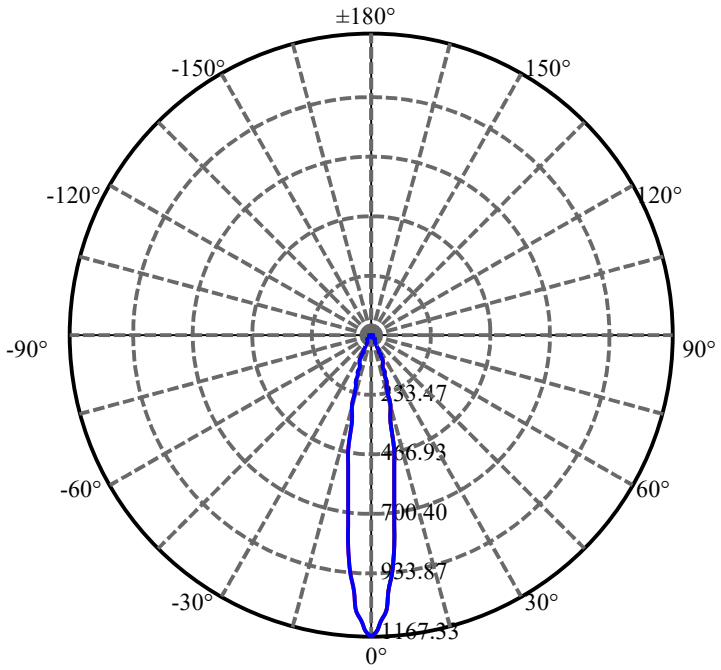
ZONAL LUMEN SUMMARY

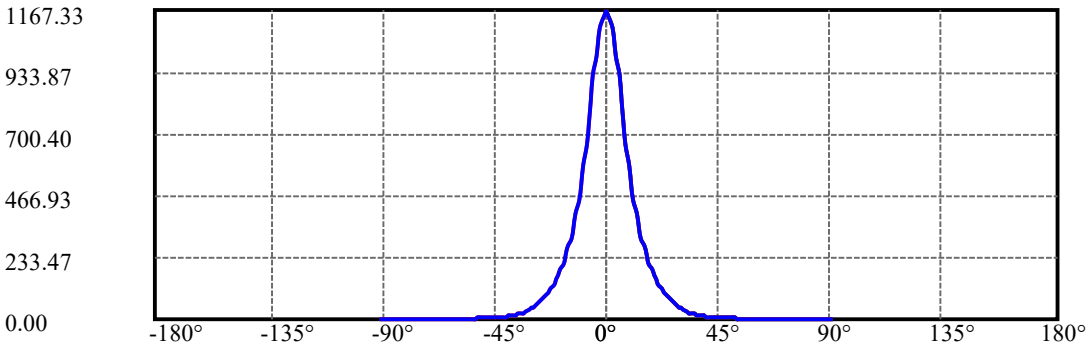
Zone	Lumens	%Lamp	%Fixt
0-30	188.99	59.06%	88.55%
0-40	201.88	63.09%	94.59%
0-60	209.44	65.45%	98.13%
0-90	213.27	66.65%	99.93%
0-120	213.27	66.65%	99.93%
0-180	213.43	66.70%	100.00%
60-90	4.02	1.26%	1.89%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.13	170.74	53.36%	80.00%

ZONAL LUMEN SUMMARY

0-10	73.56
10-20	77.27
20-30	38.17
30-40	12.89
40-50	5.04
50-60	2.52
60-70	1.44
70-80	1.26
80-90	1.14
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:22.0 Right:22.0
:C90/270Left:22.0 Right:22.0

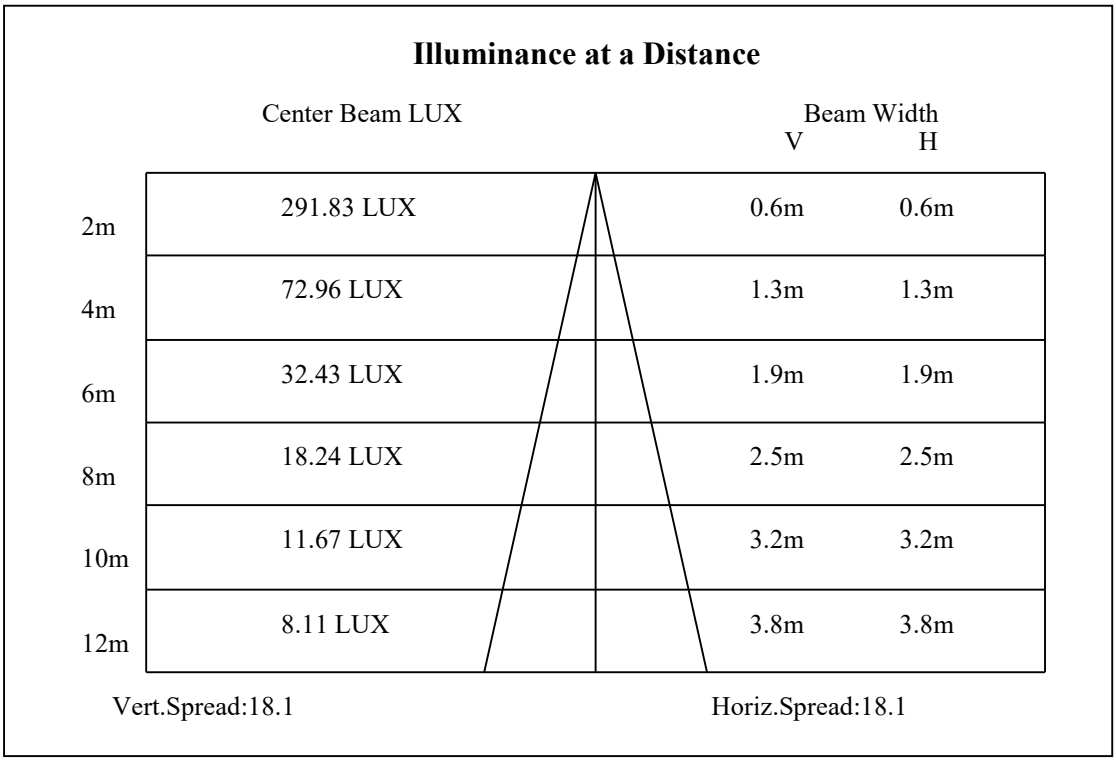
Beam Angle(50%Imax):C0/180Left:9.0 Right:9.0
:C90/270Left:9.0 Right:9.0

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/8/10
Humidity(%): 60.0%

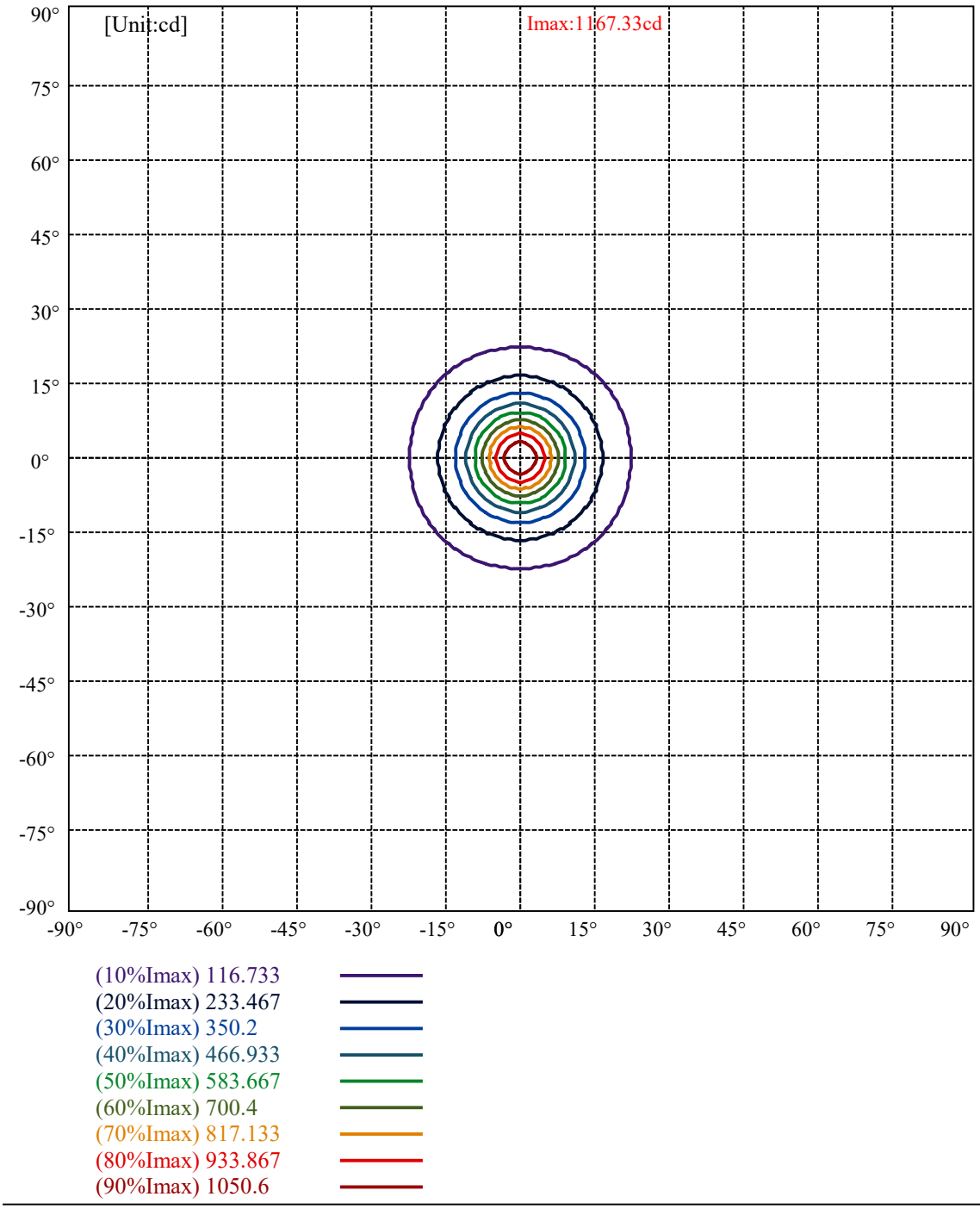
Operator: NT07
Distance(m): 7.42

Lux distance Curve



Equipment: GMS1980 Date: 2018/8/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.42

ISO-Intensity(V-H)



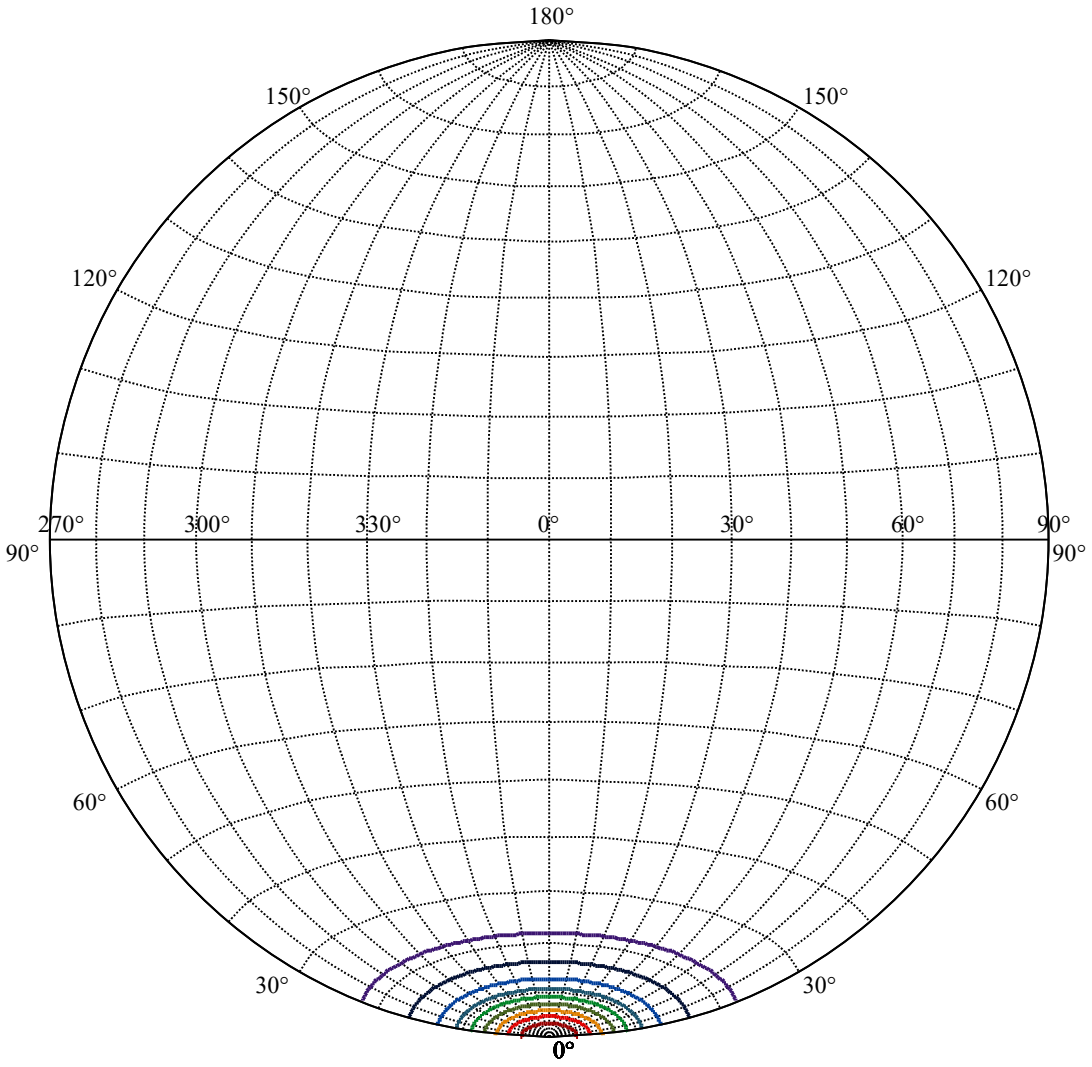
(10%Imax) 116.733
(20%Imax) 233.467
(30%Imax) 350.2
(40%Imax) 466.933
(50%Imax) 583.667
(60%Imax) 700.4
(70%Imax) 817.133
(80%Imax) 933.867
(90%Imax) 1050.6

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/8/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:1167.33

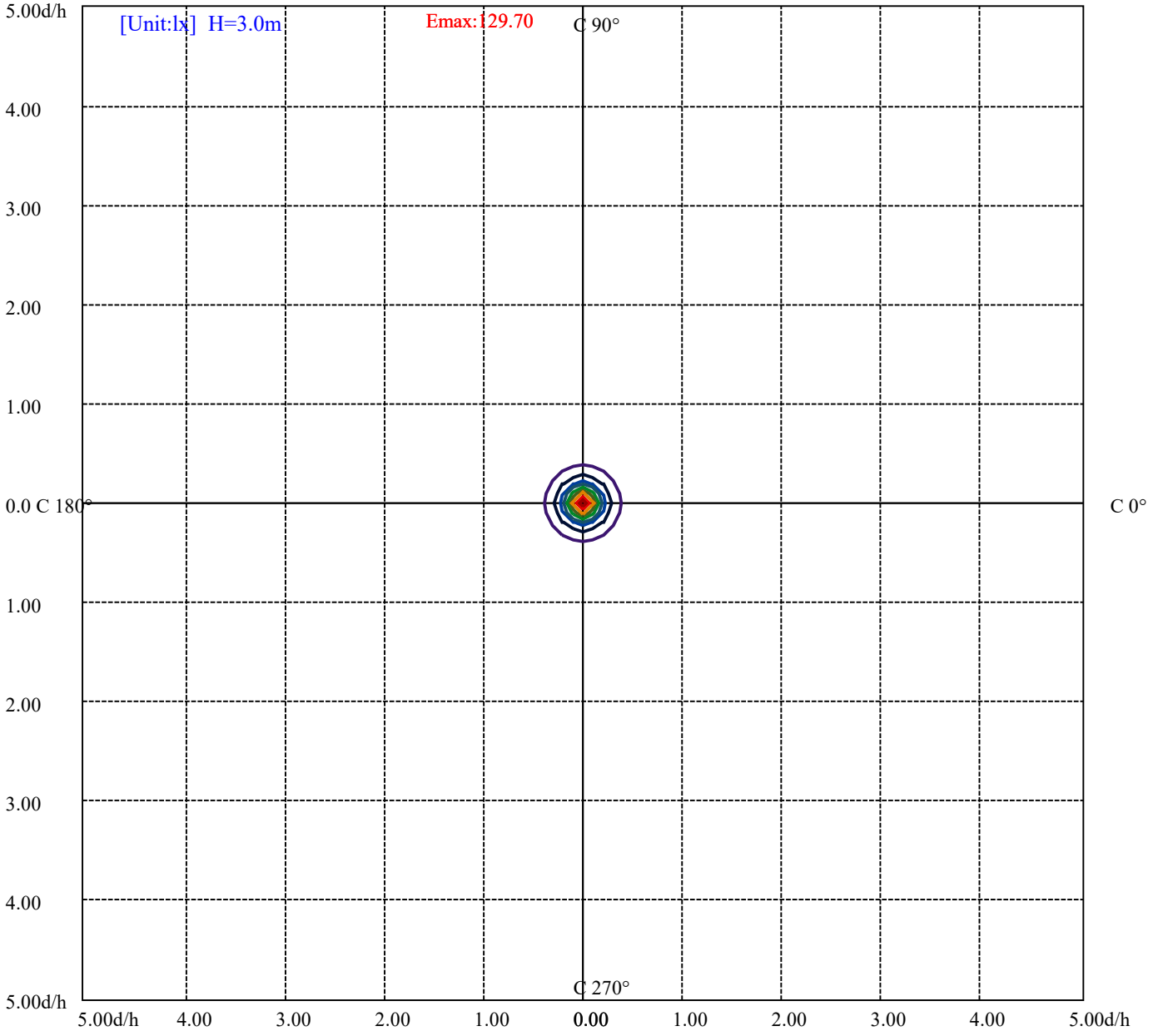
(10%Imax) 116.733
(20%Imax) 233.467
(30%Imax) 350.2
(40%Imax) 466.933
(50%Imax) 583.667
(60%Imax) 700.4
(70%Imax) 817.133
(80%Imax) 933.867
(90%Imax) 1050.6

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/8/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

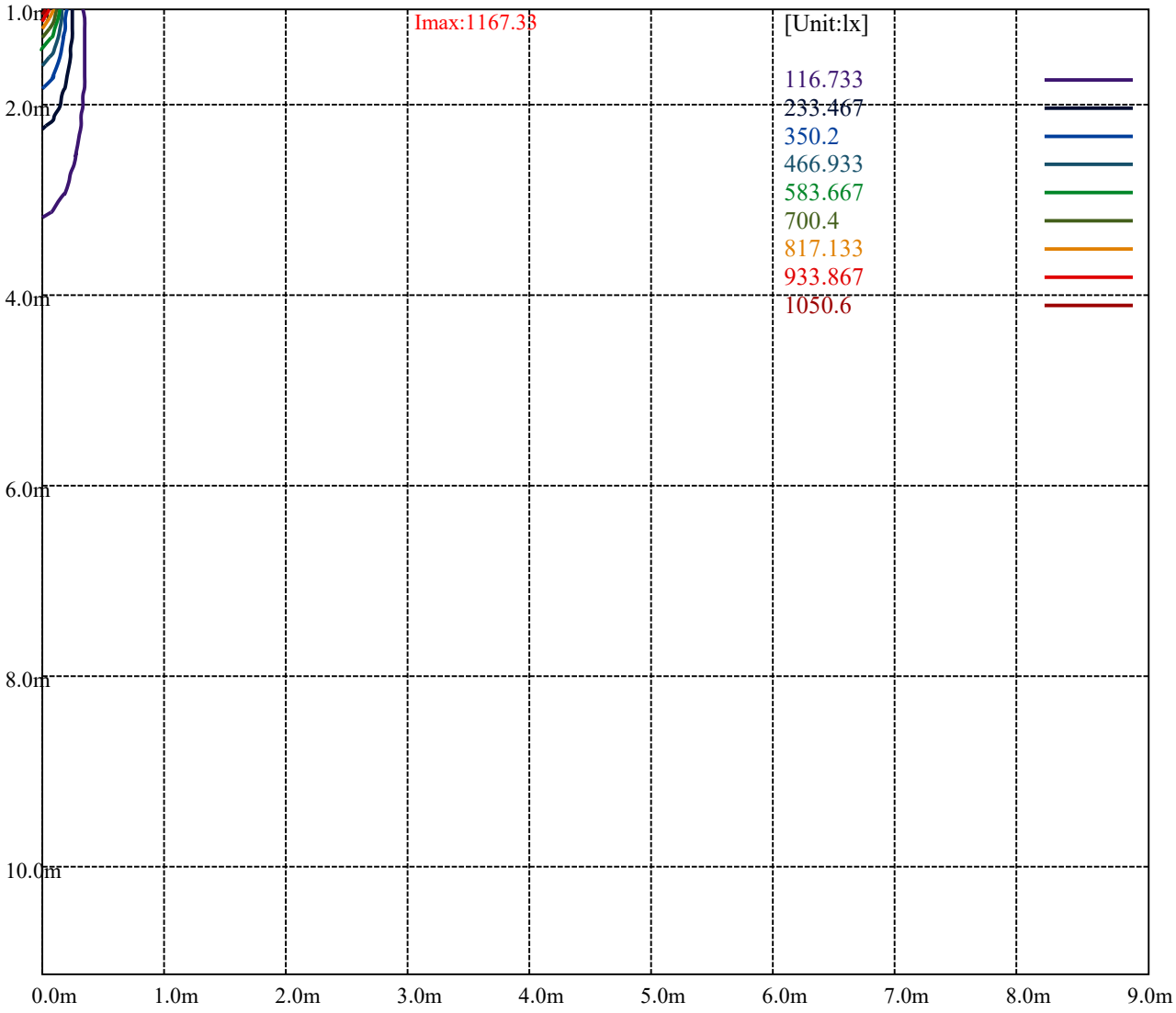
ISO illuminance diagram



(10%Emax) 12.97033
(20%Emax) 25.94067
(30%Emax) 38.911
(40%Emax) 51.88133
(50%Emax) 64.85166
(60%Emax) 77.822
(70%Emax) 90.79233
(80%Emax) 103.7627
(90%Emax) 116.7333

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2018/8/10
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.42

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/8/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

Luminance Limitting Curve(no luminous side)

Luminance Table

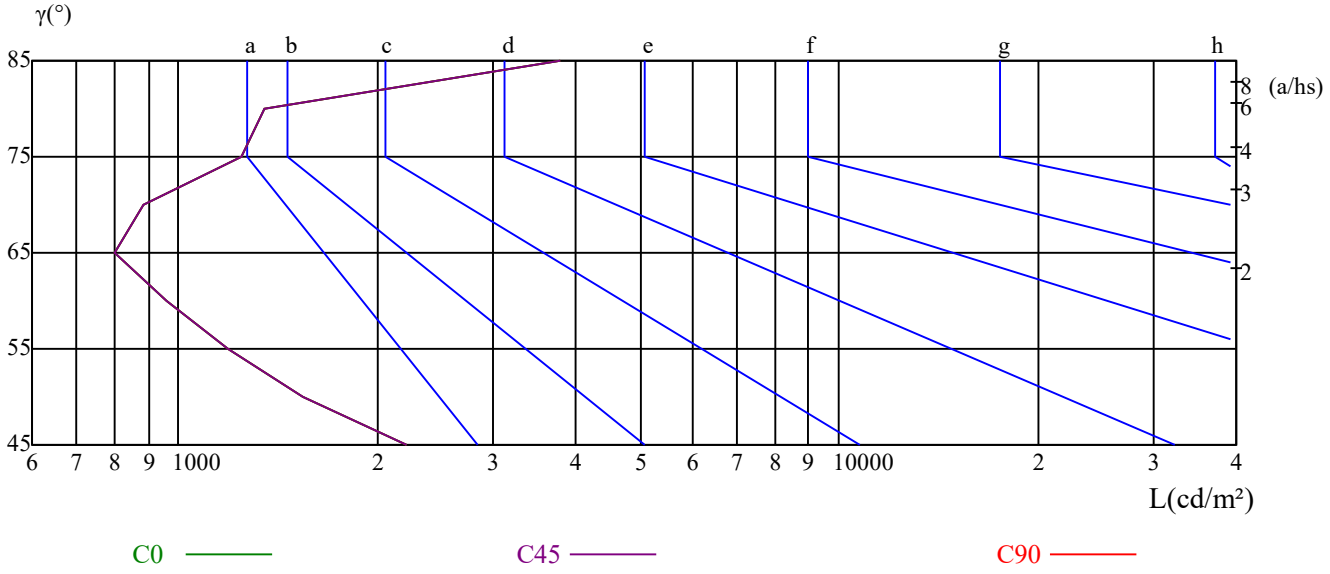
γ	45	50	55	60	65	70	75	80	85
C0	2213	1547	1185	962	800	884	1247	1350	3782
C45	2213	1547	1185	962	800	884	1247	1350	3782
C90	2213	1547	1185	962	800	884	1247	1350	3782

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
800	800	800	1247	1247	1247	3782	3782	3782

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

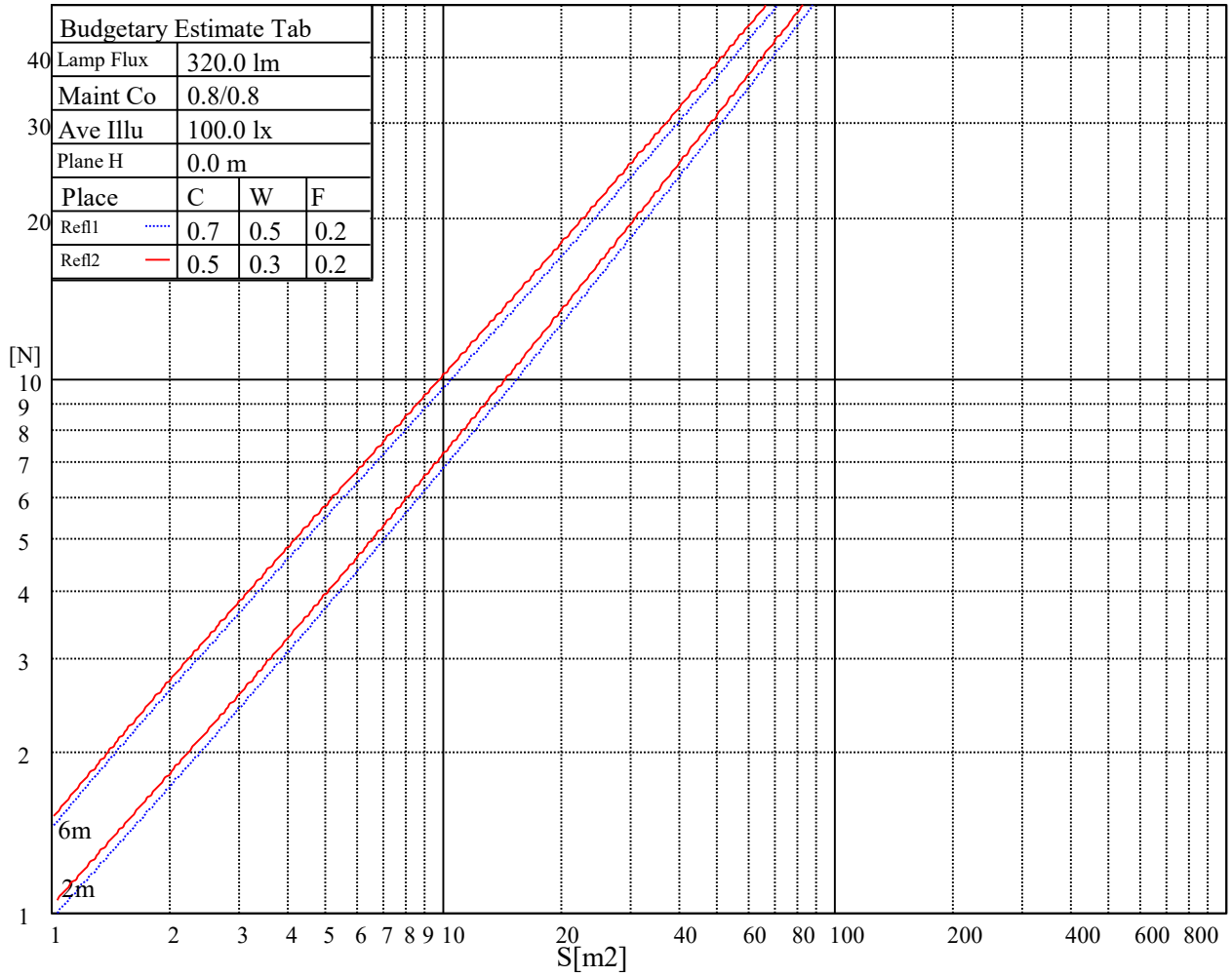


UGR Glare

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	9.66	10.61	10.02	10.92	11.24	8.56	9.51	8.92	9.82	10.14
	3H	11.23	12.07	11.61	12.41	12.77	9.62	10.46	10.00	10.79	11.16
	4H	12.69	13.47	13.10	13.82	14.21	10.51	11.29	10.92	11.65	12.04
	6H	13.66	14.37	14.08	14.75	15.14	11.67	12.39	12.09	12.76	13.16
	8H	14.29	14.96	14.73	15.36	15.77	12.46	13.12	12.89	13.52	13.93
	12H	15.93	16.57	16.36	16.95	17.38	13.92	14.56	14.36	14.95	15.38
4H	2H	9.92	10.70	10.33	11.06	11.45	9.02	9.80	9.43	10.15	10.54
	3H	11.87	12.51	12.28	12.92	13.32	10.49	11.13	10.91	11.54	11.95
	4H	13.58	14.16	14.02	14.58	15.03	11.68	12.25	12.12	12.68	13.13
	6H	15.01	15.50	15.48	15.95	16.43	13.23	13.72	13.70	14.17	14.64
	8H	15.75	16.21	16.23	16.66	17.14	14.11	14.57	14.59	15.02	15.50
	12H	17.38	17.77	17.87	18.26	18.74	15.54	15.93	16.03	16.42	16.90
8H	4H	13.94	14.39	14.41	14.84	15.32	12.39	12.85	12.87	13.30	13.78
	6H	15.57	15.93	16.08	16.43	16.92	14.18	14.54	14.69	15.05	15.53
	8H	16.61	16.94	17.15	17.46	17.96	15.35	15.67	15.88	16.19	16.69
	12H	18.58	18.86	19.10	19.35	19.94	17.04	17.32	17.57	17.82	18.40
12H	4H	14.00	14.39	14.49	14.88	15.36	12.54	12.94	13.03	13.42	13.90
	6H	16.02	16.10	16.31	16.57	17.12	14.77	14.85	15.06	15.32	15.87
	8H	17.03	17.31	17.55	17.81	18.39	15.91	16.19	16.44	16.69	17.27

Variation with the observer position at spacings:		
S = 1.0H	2.5/-1.9	2.5/-1.9
S = 1.5H	3.5/-1.7	3.5/-1.7
S = 2.0H	4.5/-1.7	4.5/-1.7
Standard tables:	BKBF	BKBF
Uncorrected UGR	-4.5	-4.5

Budgetary Estimate Table

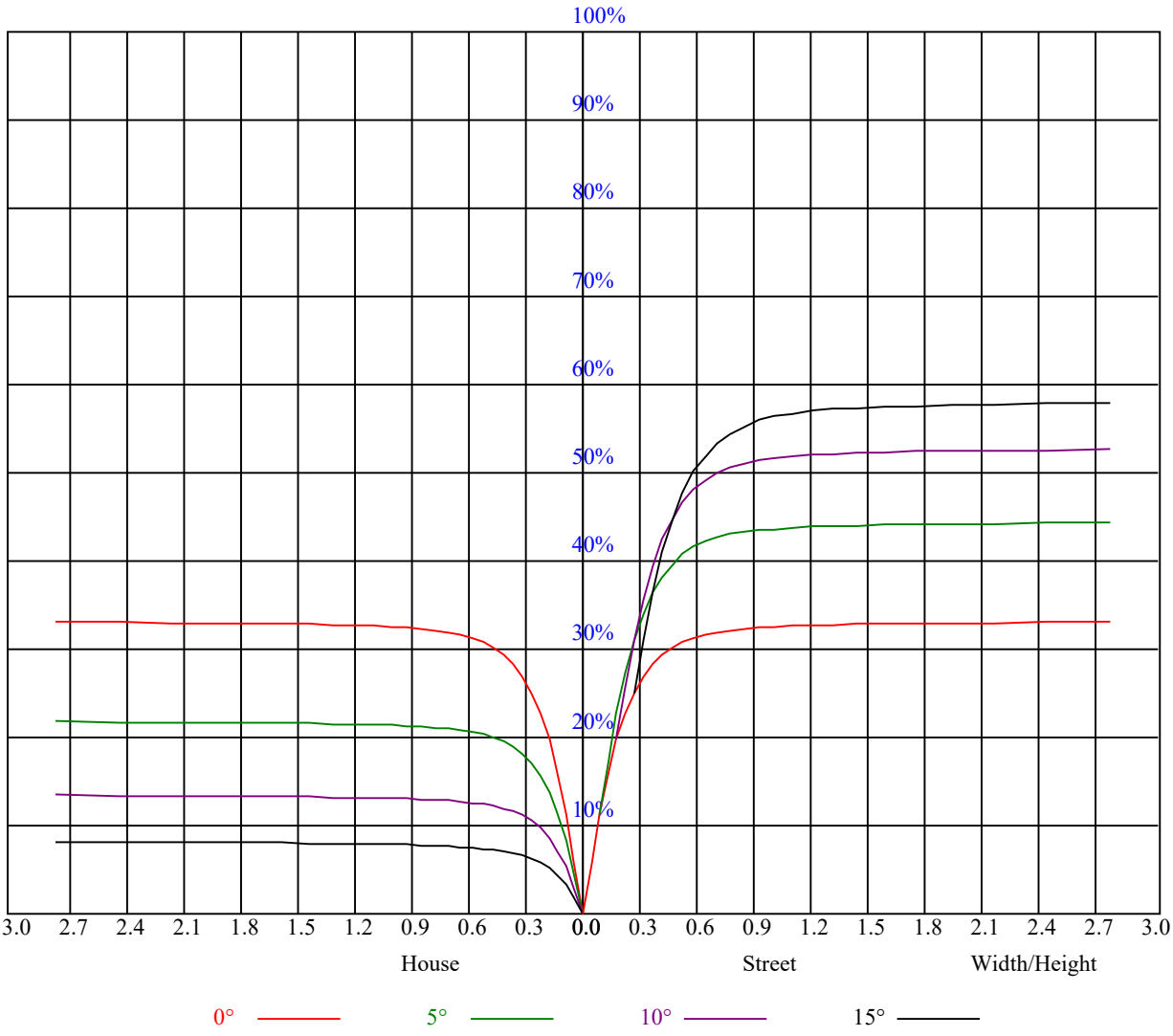


Equipment: GMS1980 Date: 2018/8/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.42

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	0.79	0.79	0.79	0.78	0.78	0.78	0.74	0.74	0.74	0.71	0.71	0.71	0.68	0.68	0.68	0.67
1	0.75	0.73	0.72	0.73	0.72	0.71	0.71	0.70	0.69	0.68	0.67	0.67	0.66	0.65	0.65	0.64
2	0.71	0.68	0.67	0.70	0.68	0.66	0.68	0.66	0.64	0.66	0.64	0.63	0.64	0.63	0.62	0.61
3	0.67	0.65	0.63	0.66	0.64	0.62	0.65	0.63	0.61	0.63	0.62	0.60	0.62	0.60	0.59	0.58
4	0.64	0.61	0.59	0.64	0.61	0.59	0.62	0.60	0.58	0.61	0.59	0.58	0.60	0.58	0.57	0.56
5	0.62	0.59	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.59	0.57	0.55	0.58	0.56	0.55	0.54
6	0.59	0.56	0.54	0.59	0.56	0.54	0.58	0.55	0.54	0.57	0.55	0.53	0.56	0.54	0.53	0.52
7	0.57	0.54	0.52	0.57	0.54	0.52	0.56	0.54	0.52	0.55	0.53	0.51	0.55	0.53	0.51	0.50
8	0.55	0.52	0.50	0.55	0.52	0.50	0.54	0.52	0.50	0.54	0.51	0.50	0.53	0.51	0.50	0.49
9	0.54	0.51	0.49	0.53	0.50	0.49	0.53	0.50	0.48	0.52	0.50	0.48	0.52	0.50	0.48	0.47
10	0.52	0.49	0.47	0.52	0.49	0.47	0.51	0.49	0.47	0.51	0.48	0.47	0.50	0.48	0.47	0.46

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2018/8/10	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.42

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	1156.18	1168.30	1156.18	1119.85	1064.24	994.32	897.97	815.94	735.55
45.0	1165.54	1176.56	1155.63	1123.15	1053.78	983.86	906.23	804.92	726.19
90.0	1174.90	1155.63	1095.90	1054.11	977.64	901.55	811.37	721.79	647.19
135.0	1172.70	1156.73	1113.24	1050.48	981.66	905.68	806.58	728.40	654.62
180.0	1156.18	1093.20	1056.97	992.45	907.49	828.60	739.35	653.41	581.78
225.0	1165.54	1094.36	1079.82	1018.27	934.80	854.81	764.13	677.19	604.68
270.0	1174.90	1169.40	1136.91	1082.96	1017.44	941.46	839.61	757.58	678.85
315.0	1172.70	1166.65	1096.01	1082.90	1009.68	933.43	840.88	749.26	669.60
360.0	1156.18	1168.30	1156.18	1119.85	1064.24	994.32	897.97	815.94	735.55

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	638.65	567.63	503.22	437.70	380.44	335.84	292.35	279.14	223.14
45.0	649.67	561.02	498.81	441.55	380.44	337.50	301.16	280.79	232.67
90.0	577.82	500.57	445.74	397.78	345.20	309.03	277.32	245.72	218.19
135.0	568.73	508.17	452.56	396.41	347.96	311.62	278.59	244.89	217.80
180.0	516.98	445.41	395.08	351.43	304.24	272.09	242.80	217.31	189.01
225.0	537.35	463.35	410.61	363.43	312.94	278.75	249.35	219.56	193.96
270.0	586.35	520.28	460.82	406.87	348.51	308.32	285.74	236.63	207.67
315.0	593.67	509.22	449.21	395.14	337.50	298.85	265.37	228.87	203.65
360.0	638.65	567.63	503.22	437.70	380.44	335.84	292.35	279.14	223.14

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	195.01	173.21	151.35	132.19	117.05	103.84	89.14	78.62	69.26
45.0	208.55	185.21	164.56	147.99	131.31	118.21	104.00	91.17	80.99
90.0	196.72	175.19	158.18	141.16	126.08	113.64	100.81	88.75	79.06
135.0	193.36	174.47	155.64	140.12	124.04	111.43	97.89	85.56	76.03
180.0	168.86	150.30	131.64	115.01	102.07	89.14	77.74	68.71	59.63
225.0	174.64	155.42	140.01	124.43	110.39	98.94	86.99	76.14	67.44
270.0	188.35	164.40	145.84	132.52	116.22	104.22	93.27	80.60	71.57
315.0	181.96	158.95	144.36	127.84	111.32	100.92	88.70	76.36	68.66
360.0	195.01	173.21	151.35	132.19	117.05	103.84	89.14	78.62	69.26

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	59.90	51.81	45.42	39.75	32.98	28.24	23.73	20.43	17.34
45.0	71.90	60.89	53.46	46.47	39.37	34.36	29.68	25.93	22.46
90.0	69.81	59.30	51.26	43.16	35.40	29.23	24.94	21.14	18.06
135.0	67.11	56.43	49.61	43.33	36.45	31.66	27.75	24.06	21.31
180.0	52.52	44.93	37.55	31.82	26.98	22.19	19.16	16.74	14.15
225.0	59.35	50.27	43.99	38.59	33.25	28.74	25.38	22.13	19.43
270.0	63.20	53.96	47.51	41.57	34.30	29.40	25.27	21.47	18.39
315.0	60.56	50.54	45.09	39.64	34.25	29.62	26.15	22.90	20.04
360.0	59.90	51.81	45.42	39.75	32.98	28.24	23.73	20.43	17.34

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	14.81	13.05	11.51	9.91	8.81	7.93	6.99	6.39	5.84
45.0	19.88	17.67	15.75	14.15	12.55	11.29	10.13	9.14	8.31
90.0	15.80	13.76	12.22	10.74	9.47	8.53	7.71	6.88	6.28
135.0	18.83	16.79	15.09	13.43	12.00	10.90	9.69	8.70	7.93
180.0	12.50	11.07	9.74	8.64	7.76	6.88	6.28	5.62	5.12
225.0	17.40	15.47	14.04	12.55	11.29	10.24	9.36	8.31	7.60
270.0	16.08	13.93	12.33	10.79	9.58	8.64	7.76	7.05	6.44
315.0	17.95	15.97	14.48	12.94	11.62	10.57	9.69	8.64	7.87
360.0	14.81	13.05	11.51	9.91	8.81	7.93	6.99	6.39	5.84

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	5.29	4.84	4.46	4.07	3.80	3.47	3.25	3.03	2.75
45.0	7.54	6.77	6.17	5.56	5.07	4.57	4.24	3.85	3.52
90.0	5.84	5.29	4.90	4.57	4.24	3.96	3.69	3.41	3.25
135.0	7.27	6.39	5.84	5.34	4.79	4.35	4.02	3.63	3.30
180.0	4.73	4.29	3.96	3.69	3.41	3.14	2.92	2.70	2.48
225.0	6.94	6.17	5.62	5.12	4.68	4.24	3.91	3.63	3.36
270.0	5.95	5.40	5.01	4.68	4.35	4.07	3.80	3.52	3.30
315.0	7.16	6.39	5.84	5.34	4.90	4.40	4.02	3.69	3.41
360.0	5.29	4.84	4.46	4.07	3.80	3.47	3.25	3.03	2.75

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	2.59	2.42	2.31	2.09	1.93	1.76	1.65	1.49	1.38
45.0	3.30	3.08	2.86	2.70	2.53	2.37	2.20	2.09	1.98
90.0	3.03	2.81	2.64	2.53	2.37	2.26	2.15	1.98	1.87
135.0	3.08	2.86	2.64	2.42	2.26	2.15	1.98	1.82	1.71
180.0	2.26	2.09	1.93	1.76	1.65	1.49	1.38	1.27	1.16
225.0	3.14	2.92	2.70	2.53	2.37	2.20	2.09	1.93	1.82
270.0	3.08	2.92	2.75	2.59	2.42	2.31	2.15	1.98	1.82
315.0	3.14	2.92	2.70	2.48	2.31	2.15	1.98	1.87	1.71
360.0	2.59	2.42	2.31	2.09	1.93	1.76	1.65	1.49	1.38

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	1.27	1.16	1.05	0.94	0.94	0.88	0.88	0.88	0.88
45.0	1.93	1.82	1.71	1.65	1.54	1.49	1.49	1.43	1.49
90.0	1.76	1.54	1.49	1.49	1.49	1.54	1.54	1.60	1.60
135.0	1.54	1.49	1.38	1.27	1.21	1.16	1.10	1.10	1.10
180.0	1.05	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
225.0	1.71	1.65	1.54	1.54	1.43	1.38	1.38	1.38	1.38
270.0	1.76	1.65	1.49	1.38	1.38	1.43	1.43	1.43	1.49
315.0	1.60	1.54	1.43	1.32	1.27	1.21	1.16	1.10	1.10
360.0	1.27	1.16	1.05	0.94	0.94	0.88	0.88	0.88	0.88

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
45.0	1.49	1.54	1.54	1.60	1.60	1.54	1.49	1.38	1.21
90.0	1.65	1.65	1.71	1.82	1.87	1.38	0.94	0.88	0.94
135.0	1.10	1.10	1.10	1.10	1.05	1.05	0.99	0.99	0.94
180.0	0.88	0.94	0.88	0.94	0.88	0.88	0.88	0.88	0.88
225.0	1.49	1.49	1.54	1.43	1.43	1.32	1.10	0.94	0.94
270.0	1.49	1.54	1.60	1.60	1.65	1.21	0.94	0.88	0.88
315.0	1.10	1.10	1.05	1.10	1.05	1.05	0.99	0.99	0.94
360.0	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.94	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
45.0	0.94	0.94	0.94	0.94	1.54	2.26	2.53	2.48	2.26
90.0	0.88	0.88	0.88	0.88	1.54	1.43	1.27	1.27	1.27
135.0	0.94	0.88	0.88	0.88	1.05	1.10	1.05	1.05	1.05
180.0	0.88	0.88	0.94	0.88	0.94	0.88	0.88	0.88	0.88
225.0	0.94	0.94	1.27	1.98	2.53	2.37	2.09	2.15	2.15
270.0	0.94	0.88	0.88	0.99	1.27	1.21	1.21	1.16	1.27
315.0	0.94	0.88	0.88	0.88	0.94	0.99	1.05	1.05	1.05
360.0	0.94	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88

Intensity data(cd)

C/γ(°)	90.0
0.0	0.88
45.0	2.31
90.0	1.65
135.0	1.10
180.0	0.88
225.0	2.42
270.0	1.27
315.0	1.16
360.0	0.88