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

NATA

LumCAT: 2-1678-M
Luminaire: 92.70.124.00
Report No: NATA0100
Test No: GC2019022209
LampCAT: BMTC MA-1313 LES11
Lamp flux(lm): 718.0
Number of Lamps: 1
Length(mm): 70
Phm Type: C

Voltage(V): 22.5000
Current(A): 0.3000
Power (W): 6.7500
PF: 0.0000
Ballast type: DC
Width(mm): 70
Height(mm): 0

Photometric Results

Lumens(lm): 635.83
Efficiency(%): 88.56%
Lumens(lm)/Power(W): 94.52
Central intensity(cd): 9359.859
Maximum intensity(cd): 9359.859
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=9.6
[C90/270]Total=9.6
Field angle(10%Imax): [C0/180]Total=18.5
[C90/270]Total=18.5
Maximum s/h(1/2): C0_180=0.17 C90_270=0.17
Maximum s/h(1/4): C0_180=0.17 C90_270=0.17
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 88.86%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.490%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9359.859	2.239	2.239	.312%	.352%
1.0	9117.844	17.450	19.689	2.430%	3.097%
2.0	8408.742	32.181	51.871	4.482%	8.158%
3.0	7312.852	41.970	93.841	5.845%	14.759%
4.0	5980.289	45.747	139.587	6.371%	21.954%
5.0	4377.867	41.842	181.429	5.828%	28.534%
6.0	3158.578	36.206	217.635	5.043%	34.229%
7.0	2149.453	28.726	246.361	4.001%	38.746%
8.0	1391.688	21.240	267.6	2.958%	42.087%
9.0	997.313	17.109	284.709	2.383%	44.778%
10.0	742.809	14.145	298.854	1.970%	47.002%
11.0	573.666	12.004	310.857	1.672%	48.890%
12.0	475.249	10.836	321.693	1.509%	50.594%
13.0	410.393	10.124	331.817	1.410%	52.186%
14.0	364.809	9.678	341.495	1.348%	53.709%
15.0	338.681	9.613	351.107	1.339%	55.220%
16.0	319.521	9.658	360.766	1.345%	56.739%
17.0	305.817	9.805	370.571	1.366%	58.281%
18.0	295.685	10.020	380.59	1.396%	59.857%
19.0	287.866	10.277	390.868	1.431%	61.474%
20.0	280.863	10.534	401.402	1.467%	63.131%
21.0	274.556	10.790	412.192	1.503%	64.827%
22.0	268.685	11.038	423.229	1.537%	66.563%
23.0	263.820	11.304	434.533	1.574%	68.341%
24.0	259.474	11.573	446.107	1.612%	70.161%
25.0	255.720	11.851	457.958	1.651%	72.025%
26.0	252.169	12.122	470.08	1.688%	73.932%
27.0	248.400	12.367	482.447	1.722%	75.877%
28.0	245.391	12.633	495.08	1.760%	77.864%
29.0	241.116	12.819	507.899	1.785%	79.880%
30.0	236.841	12.986	520.885	1.809%	81.922%
31.0	233.452	13.185	534.07	1.836%	83.996%
32.0	229.901	13.360	547.43	1.861%	86.097%
33.0	225.443	13.465	560.895	1.875%	88.215%
34.0	219.509	13.461	574.356	1.875%	90.332%
35.0	204.166	12.842	587.197	1.789%	92.352%
36.0	172.955	11.148	598.346	1.553%	94.105%
37.0	139.781	9.225	607.571	1.285%	95.556%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	99.865	6.742	614.313	.939%	96.616%
39.0	62.058	4.283	618.595	.596%	97.290%
40.0	33.602	2.369	620.964	.330%	97.662%
41.0	16.615	1.195	622.159	.166%	97.850%
42.0	10.969	0.805	622.964	.112%	97.977%
43.0	8.480	0.634	623.598	.088%	98.076%
44.0	6.293	0.479	624.078	.067%	98.152%
45.0	4.584	0.355	624.433	.050%	98.208%
46.0	3.684	0.291	624.724	.040%	98.253%
47.0	3.495	0.280	625.004	.039%	98.298%
48.0	3.396	0.277	625.281	.039%	98.341%
49.0	3.312	0.274	625.555	.038%	98.384%
50.0	3.213	0.270	625.825	.038%	98.427%
51.0	3.136	0.267	626.092	.037%	98.469%
52.0	3.073	0.266	626.358	.037%	98.510%
53.0	3.002	0.263	626.621	.037%	98.552%
54.0	2.960	0.263	626.883	.037%	98.593%
55.0	2.883	0.259	627.142	.036%	98.634%
56.0	2.834	0.258	627.4	.036%	98.674%
57.0	2.770	0.255	627.655	.035%	98.714%
58.0	2.728	0.254	627.908	.035%	98.754%
59.0	2.686	0.252	628.161	.035%	98.794%
60.0	2.637	0.250	628.411	.035%	98.833%
61.0	2.595	0.249	628.66	.035%	98.873%
62.0	2.588	0.251	628.911	.035%	98.912%
63.0	2.545	0.249	629.159	.035%	98.951%
64.0	2.531	0.249	629.409	.035%	98.990%
65.0	2.496	0.248	629.657	.035%	99.029%
66.0	2.482	0.249	629.906	.035%	99.068%
67.0	2.468	0.249	630.155	.035%	99.108%
68.0	2.461	0.250	630.405	.035%	99.147%
69.0	2.426	0.248	630.653	.035%	99.186%
70.0	2.419	0.249	630.903	.035%	99.225%
71.0	2.405	0.249	631.152	.035%	99.264%
72.0	2.419	0.252	631.404	.035%	99.304%
73.0	2.398	0.251	631.656	.035%	99.344%
74.0	2.384	0.251	631.907	.035%	99.383%
75.0	2.363	0.250	632.157	.035%	99.423%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.363	0.251	632.408	.035%	99.462%
77.0	2.355	0.252	632.66	.035%	99.502%
78.0	2.355	0.253	632.913	.035%	99.541%
79.0	2.363	0.254	633.167	.035%	99.581%
80.0	2.355	0.254	633.421	.035%	99.621%
81.0	2.348	0.254	633.676	.035%	99.661%
82.0	2.334	0.253	633.929	.035%	99.701%
83.0	2.334	0.254	634.183	.035%	99.741%
84.0	2.327	0.254	634.437	.035%	99.781%
85.0	2.320	0.253	634.691	.035%	99.821%
86.0	2.320	0.254	634.945	.035%	99.861%
87.0	2.306	0.253	635.197	.035%	99.901%
88.0	2.306	0.253	635.45	.035%	99.940%
89.0	2.306	0.253	635.703	.035%	99.980%
90.0	2.299	0.126	635.829	.018%	100.000%

Zonal flux distribution table

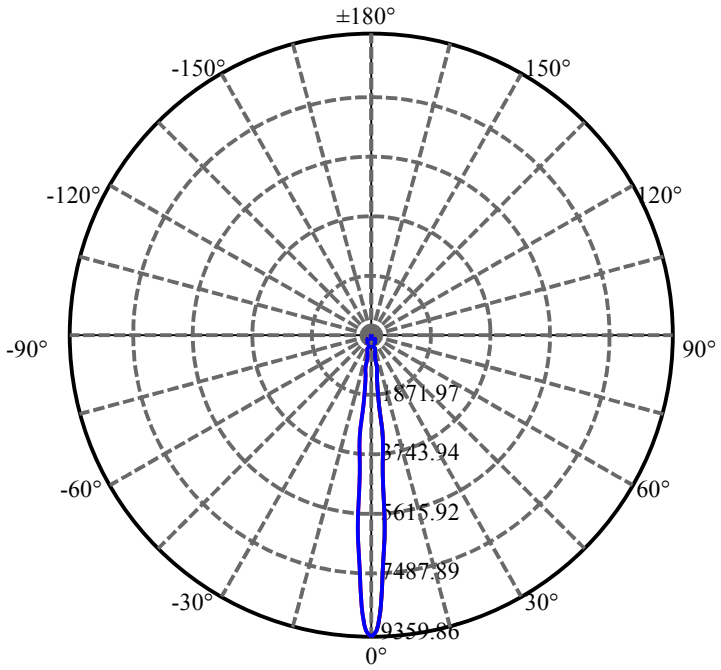
ZONAL LUMEN SUMMARY

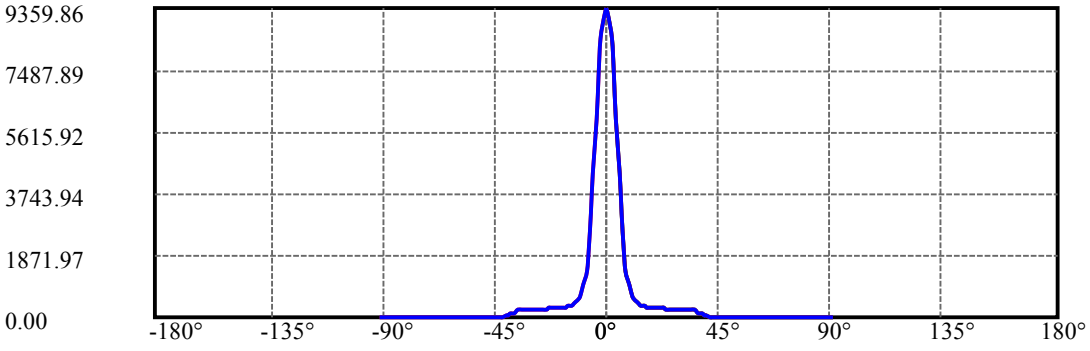
Zone	Lumens	%Lamp	%Fixt
0-30	520.89	72.55%	81.92%
0-40	620.96	86.49%	97.66%
0-60	628.41	87.52%	98.83%
0-90	635.70	88.54%	99.98%
0-120	635.70	88.54%	99.98%
0-180	635.83	88.56%	100.00%
60-90	7.54	1.05%	1.19%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.06	508.66	70.84%	80.00%

ZONAL LUMEN SUMMARY

0-10	298.85
10-20	102.55
20-30	119.48
30-40	100.08
40-50	4.86
50-60	2.59
60-70	2.49
70-80	2.52
80-90	2.28
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):

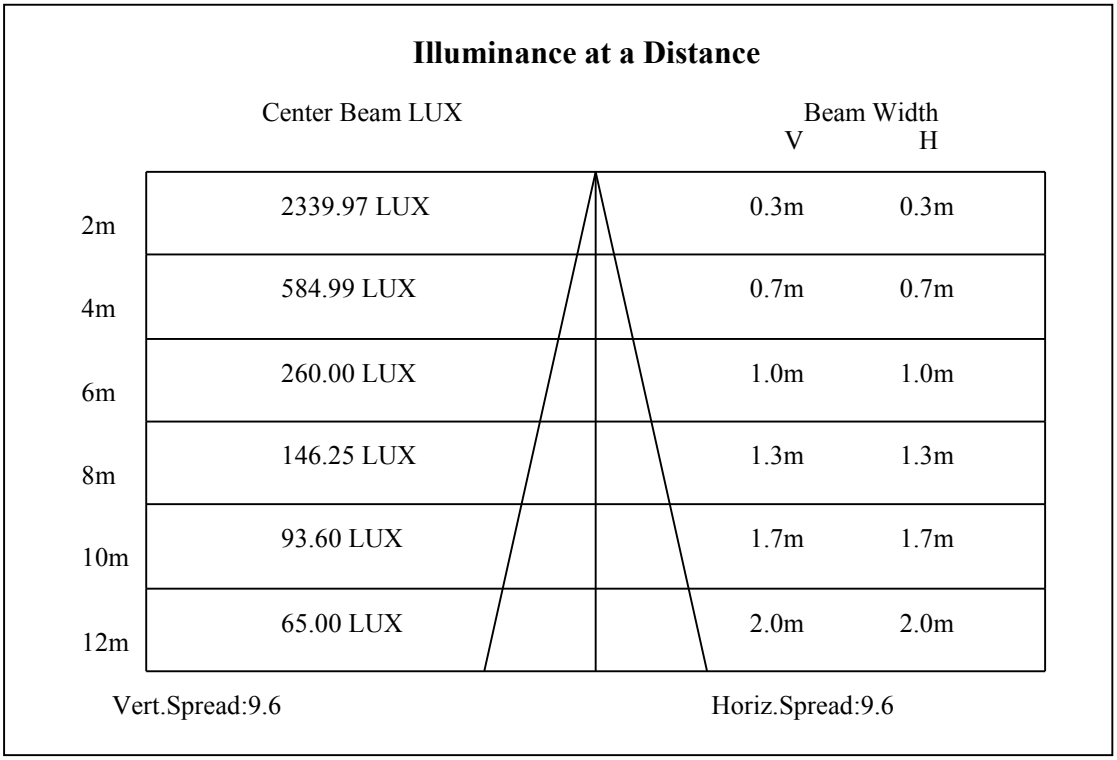
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:9.2 Right:9.2
:C90/270Left:9.2 Right:9.2

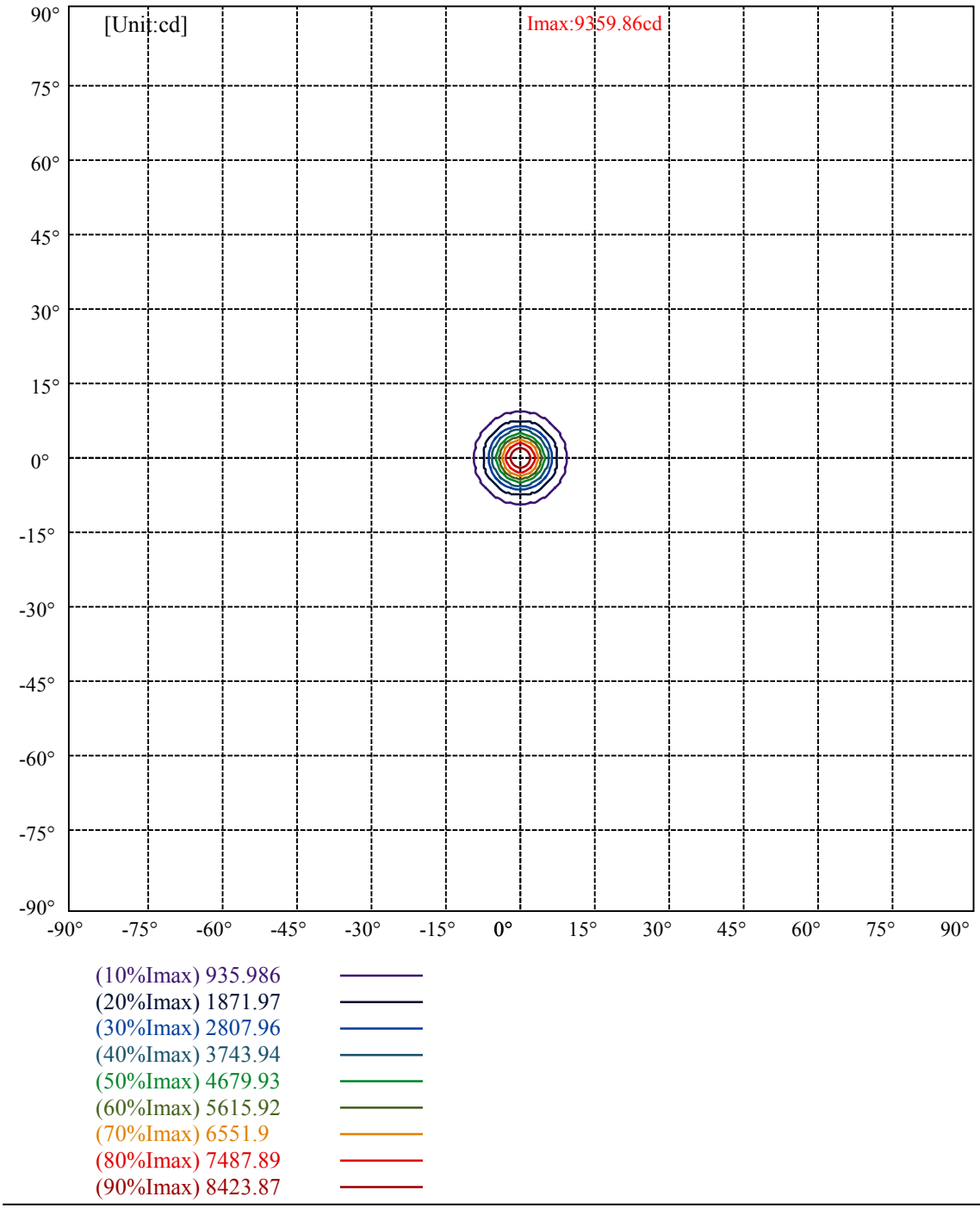
Beam Angle(50%Imax):C0/180Left:4.8 Right:4.8
:C90/270Left:4.8 Right:4.8

Lux distance Curve



Equipment: GMS1980 Date: 2019/2/22 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)



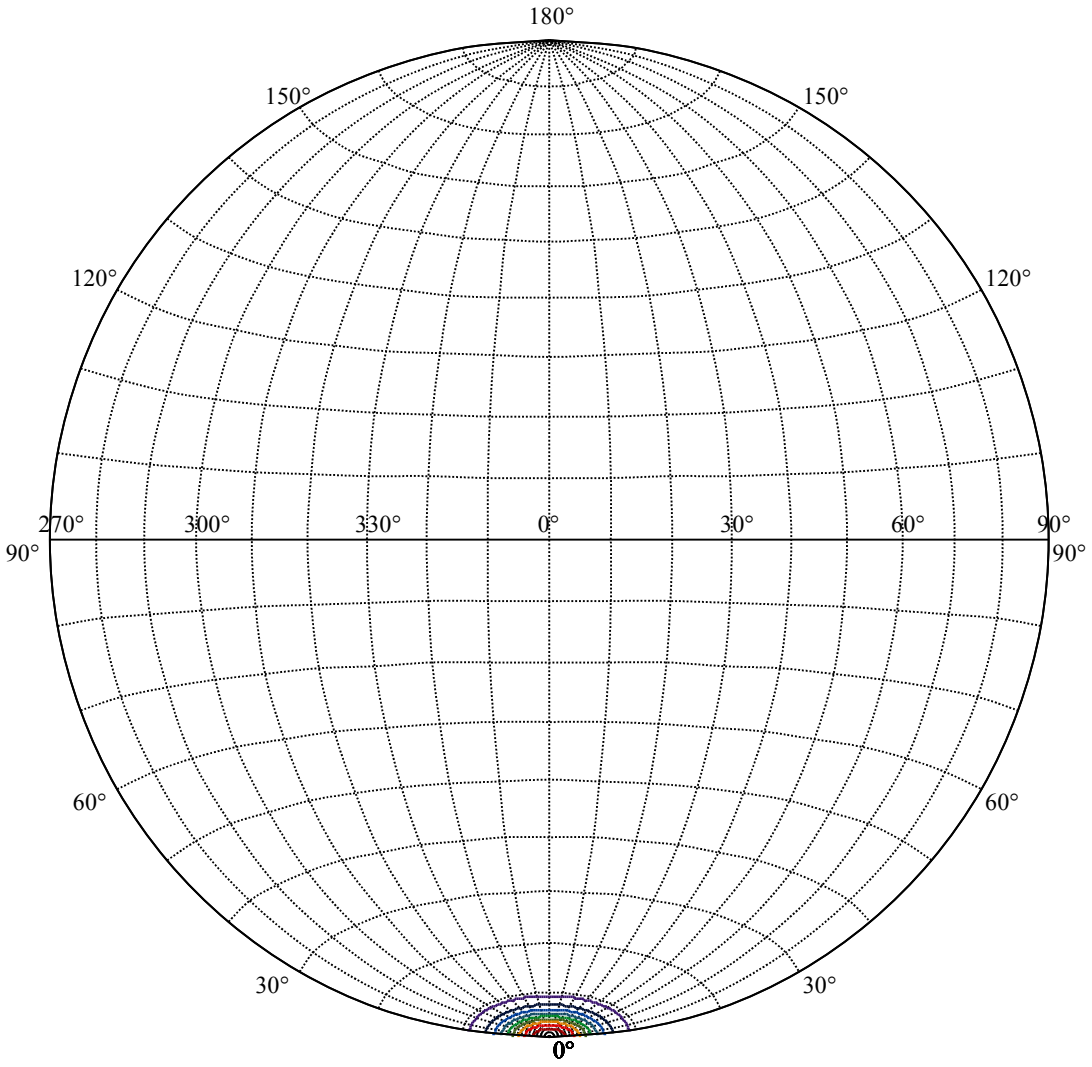
(10%Imax) 935.986
(20%Imax) 1871.97
(30%Imax) 2807.96
(40%Imax) 3743.94
(50%Imax) 4679.93
(60%Imax) 5615.92
(70%Imax) 6551.9
(80%Imax) 7487.89
(90%Imax) 8423.87

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/22
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



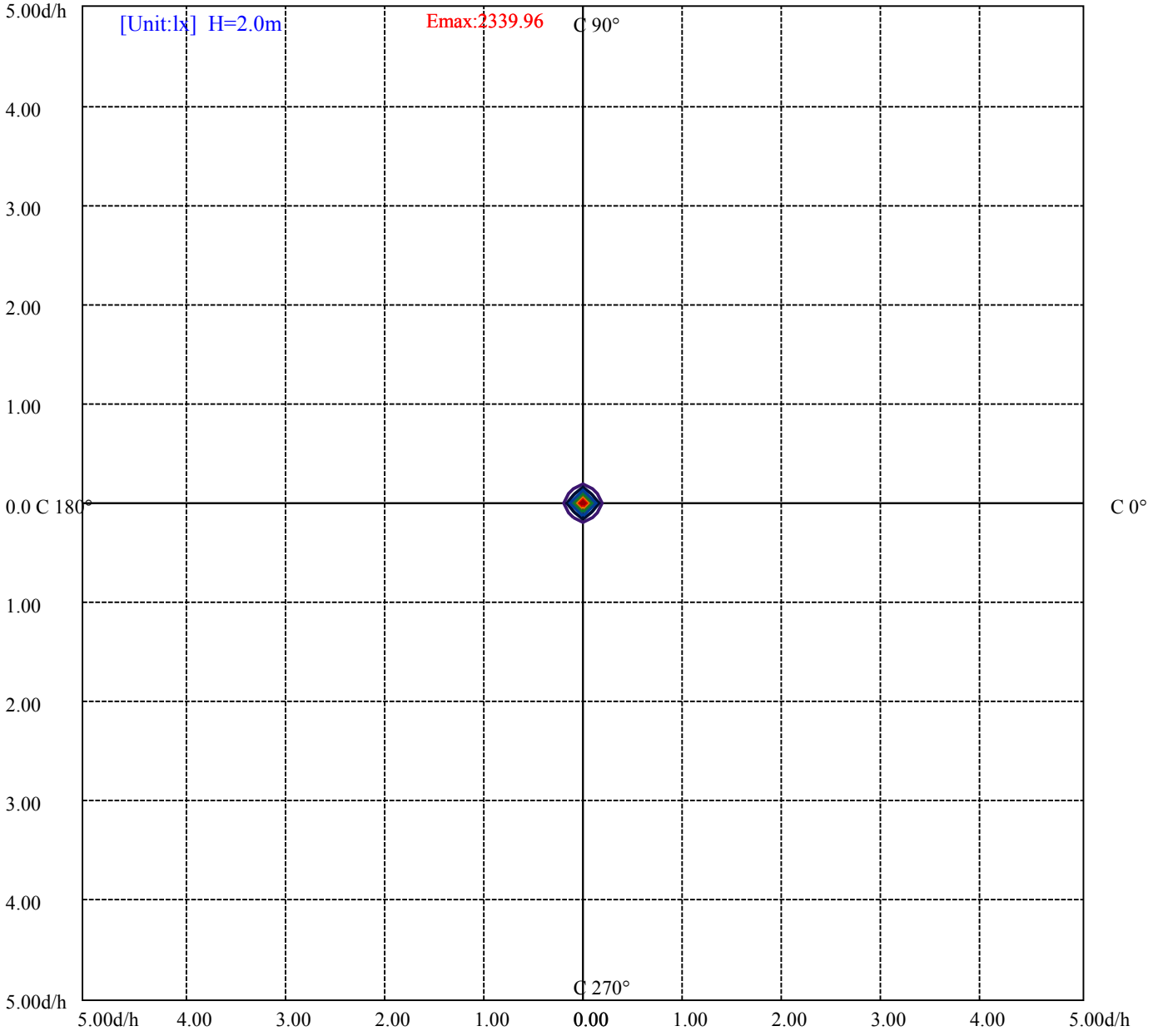
House [Unit:cd] Road

Imax:9359.86

(10%Imax) 935.986
(20%Imax) 1871.97
(30%Imax) 2807.96
(40%Imax) 3743.94
(50%Imax) 4679.93
(60%Imax) 5615.92
(70%Imax) 6551.9
(80%Imax) 7487.89
(90%Imax) 8423.87

Equipment: GMS1980 Date: 2019/2/22 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

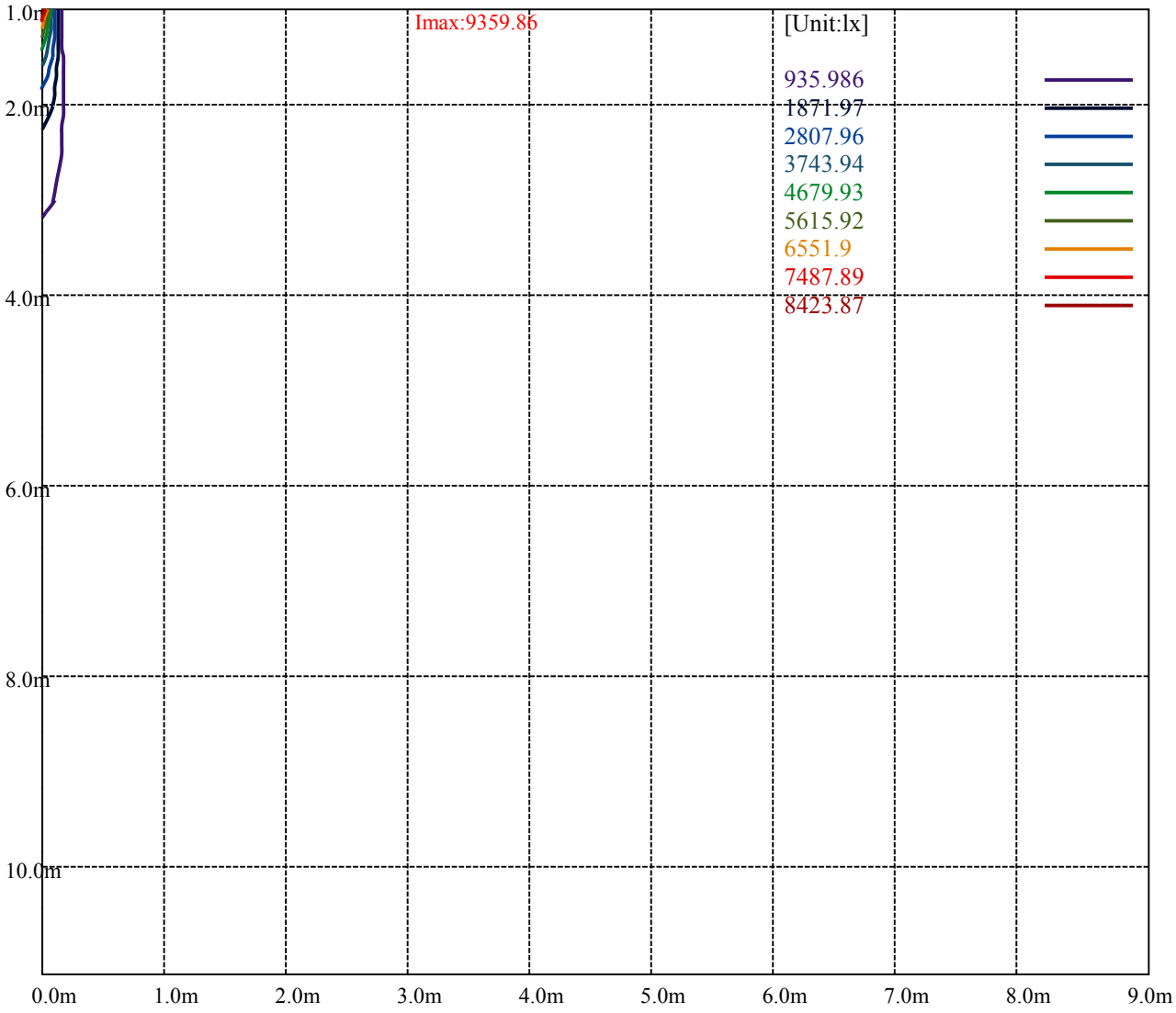
ISO illuminance diagram



(10%Emax) 233.9955
(20%Emax) 467.99
(30%Emax) 701.9875
(40%Emax) 935.9825
(50%Emax) 1169.978
(60%Emax) 1403.973
(70%Emax) 1637.97
(80%Emax) 1871.965
(90%Emax) 2105.96

Equipment: GMS1980
Temperature(°C): 10.0
Date: 2019/2/22
Humidity(%): 65.0%
Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/22
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

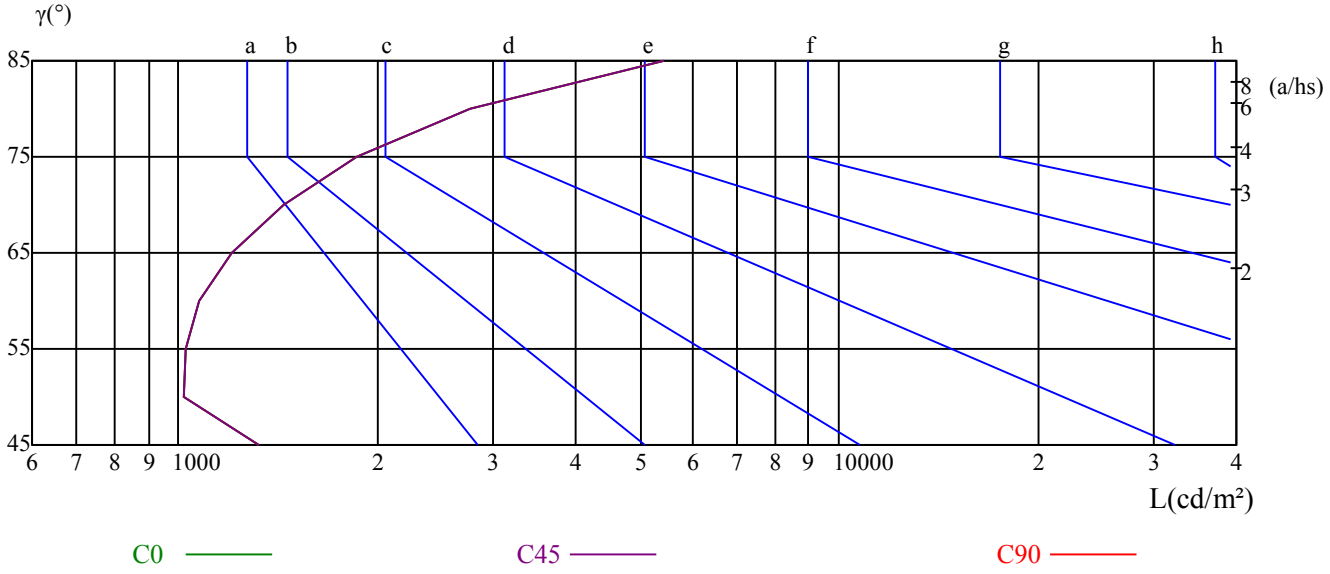
γ	45	50	55	60	65	70	75	80	85
C0	1323	1020	1026	1076	1205	1443	1863	2768	5433
C45	1323	1020	1026	1076	1205	1443	1863	2768	5433
C90	1323	1020	1026	1076	1205	1443	1863	2768	5433

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1205	1205	1205	1863	1863	1863	5433	5433	5433

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: 2019/2/22
Humidity(%): 65.0%

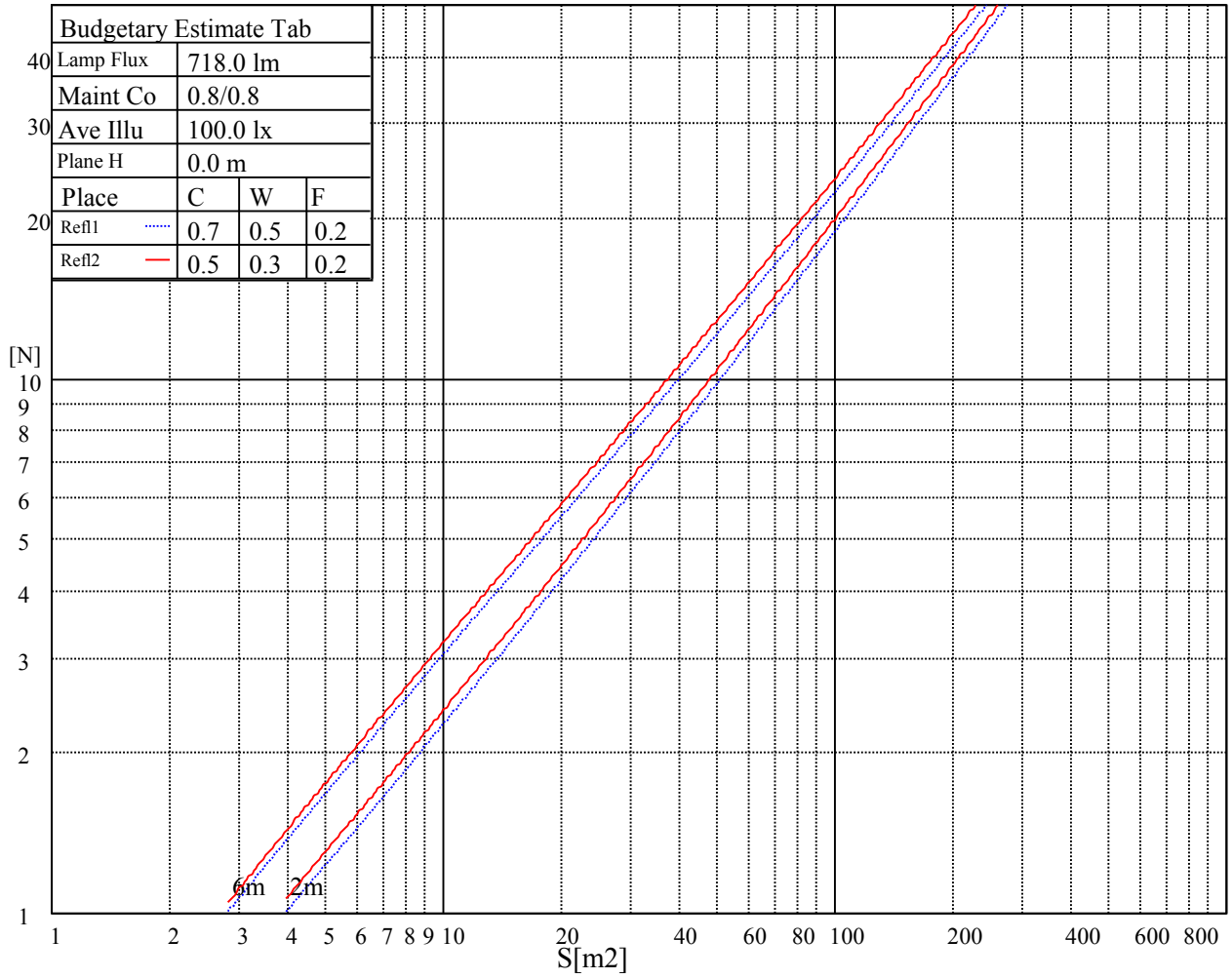
Operator: NT07
Distance(m): 7.50

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	2.24	3.14	2.60	3.45	3.77	2.18	3.08	2.54	3.39	3.71
	3H	5.23	6.03	5.62	6.36	6.73	5.17	5.97	5.56	6.30	6.67
	4H	6.90	7.64	7.31	7.99	8.39	6.84	7.58	7.25	7.93	8.33
	6H	8.84	9.52	9.26	9.89	10.29	8.76	9.44	9.18	9.81	10.21
	8H	9.93	10.56	10.37	10.95	11.36	9.83	10.46	10.27	10.85	11.26
	12H	11.69	12.29	12.12	12.67	13.11	11.56	12.17	12.00	12.55	12.98
4H	2H	3.05	3.79	3.46	4.14	4.53	3.01	3.75	3.42	4.10	4.49
	3H	6.32	6.92	6.73	7.33	7.74	6.27	6.87	6.69	7.28	7.69
	4H	8.17	8.71	8.61	9.13	9.58	8.12	8.66	8.56	9.09	9.54
	6H	10.27	10.73	10.75	11.18	11.66	10.22	10.68	10.69	11.13	11.60
	8H	11.47	11.89	11.94	12.35	12.82	11.39	11.82	11.87	12.27	12.75
	12H	13.13	13.50	13.63	13.99	14.47	13.03	13.39	13.52	13.88	14.36
8H	4H	8.86	9.29	9.34	9.74	10.22	8.83	9.26	9.31	9.71	10.19
	6H	11.25	11.59	11.76	12.09	12.58	11.21	11.55	11.72	12.05	12.54
	8H	12.64	12.93	13.17	13.46	13.96	12.57	12.87	13.11	13.39	13.89
	12H	14.45	14.70	14.97	15.20	15.78	14.35	14.60	14.88	15.10	15.69
12H	4H	9.07	9.43	9.56	9.92	10.40	9.04	9.40	9.53	9.89	10.37
	6H	11.75	11.86	12.10	12.33	12.88	11.71	11.82	12.06	12.30	12.85
	8H	13.08	13.33	13.60	13.83	14.41	13.02	13.27	13.54	13.77	14.35

Variation with the observer position at spacings:		
S = 1.0H	5.3/-9.4	5.3/-9.4
S = 1.5H	7.7/-7.3	7.7/-7.3
S = 2.0H	9.3/-5.6	9.3/-5.6
Standard tables:	BK2	BK2
Uncorrected UGR	-2.2	-2.2

Budgetary Estimate Table

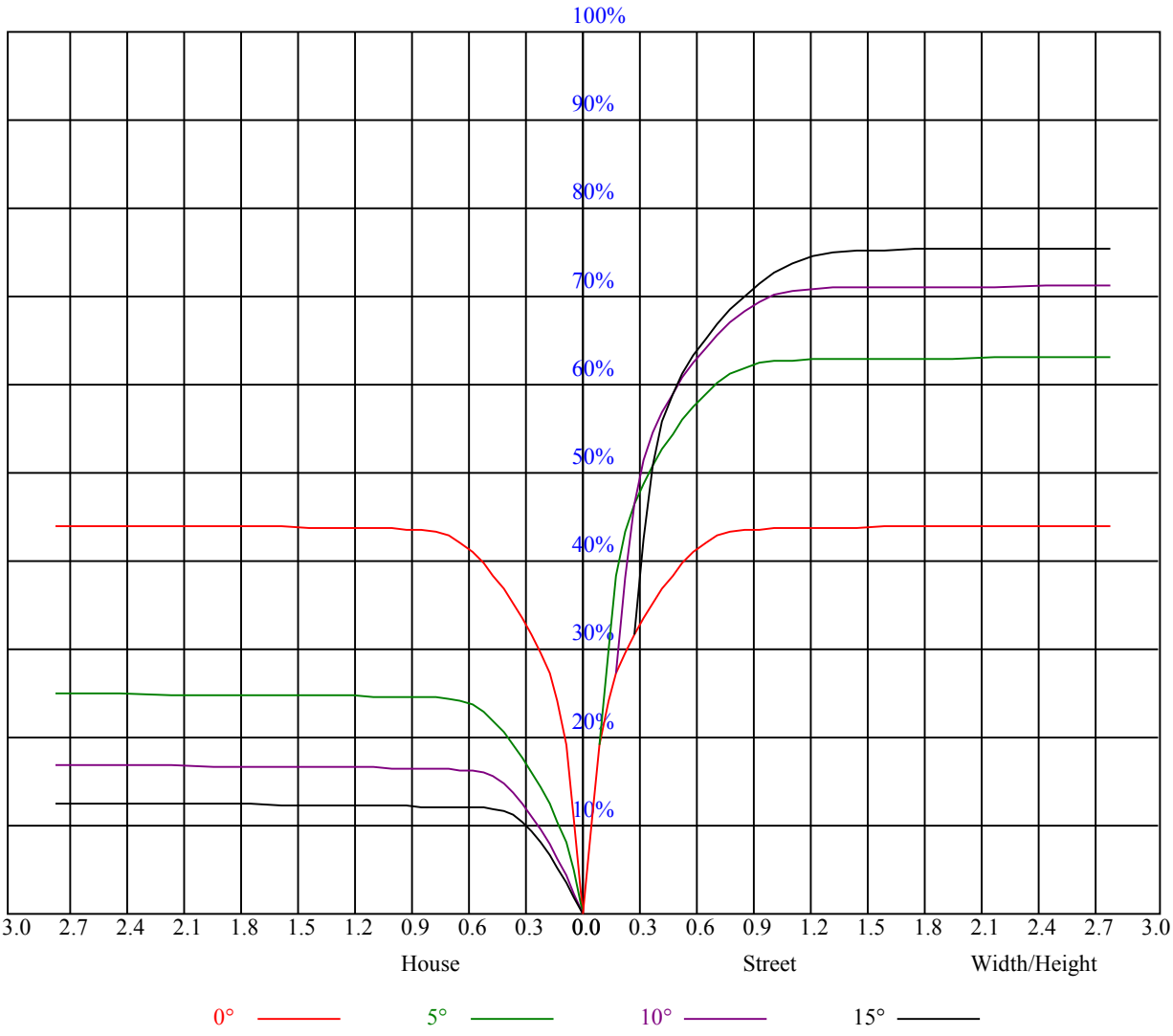


Equipment: GMS1980 Date: 2019/2/22 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.06	1.06	1.06	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	0.99	0.97	0.96	0.97	0.96	0.94	0.94	0.93	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.91	0.89	0.93	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.84	0.85	0.84	0.82	0.81
3	0.90	0.86	0.84	0.89	0.85	0.83	0.86	0.84	0.82	0.84	0.82	0.80	0.82	0.81	0.79	0.78
4	0.86	0.82	0.79	0.85	0.82	0.79	0.83	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.72
6	0.80	0.76	0.73	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
7	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.71	0.69	0.68
8	0.74	0.70	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.69	0.67	0.66
9	0.72	0.68	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.70	0.67	0.65	0.64
10	0.70	0.66	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62

Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/22
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	9448.88	9039.38	8246.25	7170.75	5628.94	4089.38	2917.13	1928.81	1360.13
45.0	9397.69	8980.31	8043.19	6923.81	5555.81	3881.81	2744.44	1873.69	1245.94
90.0	9296.44	8889.75	8024.63	6717.94	5347.69	3681.00	2691.00	1735.88	1087.99
135.0	9296.44	9358.88	8805.38	7996.50	6820.88	5083.88	3750.19	2749.50	1725.75
180.0	9448.88	9262.69	8744.63	7570.13	6228.00	4812.75	3350.25	2215.13	1330.88
225.0	9397.69	9321.19	8718.75	7716.94	6449.63	4857.75	3564.00	2390.06	1584.00
270.0	9296.44	9293.06	8680.50	7819.88	6596.44	4871.81	3595.50	2540.81	1688.06
315.0	9296.44	8797.50	8006.63	6586.88	5214.94	3744.56	2656.13	1761.75	1110.77
360.0	9448.88	9039.38	8246.25	7170.75	5628.94	4089.38	2917.13	1928.81	1360.13

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	963.56	717.75	576.56	482.63	409.50	370.13	343.69	321.19	309.38
45.0	874.13	669.94	527.63	447.75	391.50	355.50	332.44	315.00	302.06
90.0	816.75	604.91	485.38	418.50	375.41	340.59	321.53	307.58	297.23
135.0	1158.75	875.81	622.69	506.81	431.44	374.06	345.94	325.69	308.25
180.0	1041.58	749.31	588.99	475.82	412.14	365.79	335.93	317.70	304.54
225.0	1082.64	805.95	608.79	500.57	429.92	370.74	345.88	325.46	309.60
270.0	1149.75	847.69	635.06	519.19	435.94	384.19	353.25	328.50	312.75
315.0	891.34	671.12	544.22	450.73	397.29	357.47	330.81	315.06	302.74
360.0	963.56	717.75	576.56	482.63	409.50	370.13	343.69	321.19	309.38

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	300.38	292.50	284.06	279.51	272.48	266.68	262.86	259.71	255.49
45.0	293.63	285.75	279.34	270.00	265.28	261.06	256.16	252.51	249.08
90.0	286.93	279.90	273.83	267.19	262.63	258.69	254.81	251.21	248.18
135.0	298.13	290.25	284.06	275.85	271.07	265.95	261.73	257.68	253.69
180.0	292.44	284.85	278.55	271.58	266.51	261.84	256.73	253.18	250.09
225.0	298.41	290.31	282.83	276.75	272.03	266.96	262.63	258.24	254.31
270.0	302.63	294.19	285.75	284.06	272.59	266.57	262.18	258.19	254.53
315.0	292.95	285.19	278.49	271.52	266.91	262.80	258.69	255.04	252.00
360.0	300.38	292.50	284.06	279.51	272.48	266.68	262.86	259.71	255.49

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	251.72	248.91	243.56	239.79	236.48	232.43	227.93	222.36	200.31
45.0	244.63	241.48	236.70	232.54	228.99	226.07	220.22	211.11	194.12
90.0	244.80	241.82	236.53	232.99	229.84	226.01	221.40	213.64	195.13
135.0	249.86	246.88	243.11	238.56	234.62	230.96	227.03	222.24	208.41
180.0	246.43	243.84	240.36	235.01	232.09	228.60	223.54	219.21	205.76
225.0	250.88	247.61	243.73	239.12	235.74	231.81	228.21	223.76	212.74
270.0	250.43	247.28	244.35	239.96	236.25	232.88	229.84	225.06	217.24
315.0	248.46	245.31	240.58	236.76	233.61	230.46	225.39	218.70	199.63
360.0	251.72	248.91	243.56	239.79	236.48	232.43	227.93	222.36	200.31

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	170.16	137.53	95.18	61.31	32.40	15.30	11.03	8.49	6.13
45.0	159.08	121.61	88.03	46.80	23.91	13.56	10.24	7.93	6.24
90.0	156.71	117.62	81.45	42.64	19.80	12.32	10.07	7.71	6.19
135.0	184.16	153.11	107.10	73.46	42.41	18.73	10.86	8.89	6.30
180.0	166.84	139.22	106.20	70.26	36.96	17.55	10.80	8.10	5.85
225.0	186.81	155.08	114.02	72.23	41.96	19.35	11.87	8.94	6.19
270.0	197.16	165.54	116.66	77.23	45.79	21.54	11.93	9.51	7.09
315.0	162.73	128.53	90.28	52.54	25.59	14.57	10.97	8.27	6.36
360.0	170.16	137.53	95.18	61.31	32.40	15.30	11.03	8.49	6.13

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	4.84	3.60	3.49	3.38	3.26	3.21	3.09	3.04	2.98
45.0	3.83	3.54	3.38	3.32	3.26	3.15	3.09	3.04	2.98
90.0	3.99	3.54	3.43	3.32	3.26	3.21	3.09	3.04	2.98
135.0	4.84	3.77	3.49	3.43	3.32	3.21	3.15	3.09	2.98
180.0	4.73	3.60	3.49	3.38	3.32	3.21	3.09	3.04	2.98
225.0	4.95	3.77	3.54	3.43	3.38	3.21	3.15	3.09	3.04
270.0	5.18	4.05	3.66	3.54	3.43	3.32	3.26	3.15	3.09
315.0	4.33	3.60	3.49	3.38	3.26	3.21	3.15	3.09	2.98
360.0	4.84	3.60	3.49	3.38	3.26	3.21	3.09	3.04	2.98

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	2.93	2.87	2.81	2.76	2.70	2.70	2.64	2.59	2.59
45.0	2.93	2.87	2.81	2.76	2.70	2.64	2.59	2.59	2.59
90.0	2.93	2.87	2.81	2.70	2.70	2.64	2.64	2.59	2.59
135.0	2.98	2.87	2.87	2.81	2.76	2.70	2.64	2.59	2.59
180.0	2.98	2.87	2.81	2.76	2.70	2.64	2.64	2.59	2.59
225.0	2.98	2.87	2.81	2.76	2.76	2.70	2.64	2.59	2.53
270.0	3.04	2.98	2.93	2.87	2.81	2.76	2.70	2.64	2.64
315.0	2.93	2.87	2.81	2.76	2.70	2.70	2.59	2.59	2.59
360.0	2.93	2.87	2.81	2.76	2.70	2.70	2.64	2.59	2.59

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	2.53	2.53	2.48	2.48	2.42	2.42	2.42	2.42	2.42
45.0	2.53	2.48	2.48	2.48	2.48	2.48	2.42	2.42	2.36
90.0	2.53	2.53	2.48	2.48	2.48	2.48	2.42	2.42	2.42
135.0	2.53	2.53	2.53	2.48	2.48	2.48	2.42	2.42	2.42
180.0	2.53	2.53	2.48	2.48	2.48	2.48	2.42	2.42	2.42
225.0	2.59	2.53	2.53	2.48	2.48	2.48	2.42	2.42	2.42
270.0	2.59	2.59	2.53	2.53	2.53	2.48	2.48	2.48	2.42
315.0	2.53	2.53	2.48	2.48	2.42	2.42	2.42	2.36	2.36
360.0	2.53	2.53	2.48	2.48	2.42	2.42	2.42	2.42	2.42

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.36	2.36	2.36	2.36	2.36	2.36	2.31	2.31	2.36
45.0	2.42	2.42	2.36	2.36	2.36	2.31	2.36	2.36	2.36
90.0	2.42	2.42	2.42	2.36	2.36	2.36	2.36	2.42	2.36
135.0	2.42	2.42	2.36	2.36	2.36	2.36	2.36	2.36	2.36
180.0	2.42	2.36	2.36	2.36	2.36	2.31	2.31	2.31	2.31
225.0	2.42	2.42	2.42	2.36	2.36	2.36	2.36	2.36	2.36
270.0	2.48	2.42	2.42	2.42	2.36	2.42	2.42	2.42	2.42
315.0	2.42	2.36	2.36	2.31	2.36	2.36	2.36	2.36	2.31
360.0	2.36	2.36	2.36	2.36	2.36	2.36	2.31	2.31	2.36

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31
45.0	2.31	2.36	2.36	2.31	2.31	2.36	2.31	2.31	2.31
90.0	2.36	2.36	2.36	2.36	2.36	2.31	2.31	2.31	2.31
135.0	2.36	2.36	2.36	2.31	2.31	2.31	2.31	2.31	2.31
180.0	2.36	2.31	2.31	2.31	2.31	2.36	2.31	2.31	2.31
225.0	2.36	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31
270.0	2.42	2.36	2.36	2.42	2.36	2.31	2.31	2.31	2.31
315.0	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31
360.0	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31

Intensity data(cd)

C/γ(°)	90.0
0.0	2.31
45.0	2.31
90.0	2.31
135.0	2.25
180.0	2.31
225.0	2.31
270.0	2.31
315.0	2.31
360.0	2.31