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

NATA

LumCAT: 2-1680-M
Luminaire: 92.70.124.00
Report No: NATA0100
Test No: GC2019021815
LampCAT: BRIDGELUX V10B
Lamp flux(lm): 1497.0
Number of Lamps: 1
Length(mm): 70
Phm Type: C

Voltage(V): 33.9000
Current(A): 0.3000
Power (W): 10.1700
PF: 1.0000
Ballast type: DC
Width(mm): 70
Height(mm): 0

Photometric Results

Lumens(lm): 1332.50
Efficiency(%): 89.01%
Lumens(lm)/Power(W): 131.13
Central intensity(cd): 4766.063
Maximum intensity(cd): 4766.063
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.5
[C90/270]Total=24.5
Field angle(10%Imax): [C0/180]Total=63.1
[C90/270]Total=63.1
Maximum s/h(1/2): C0_180=0.42 C90_270=0.42
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(%): 89.08%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.702%

Equipment: GMS1980
Temperature(°C): 10.0
Date: 2019/2/18
Humidity(%): 65.0%
Operator: NT07
Distance(m): 7.50

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4766.063	1.140	1.14	.076%	.086%
1.0	4760.297	9.110	10.251	.609%	.769%
2.0	4743.703	18.155	28.405	1.213%	2.132%
3.0	4707.281	27.016	55.421	1.805%	4.159%
4.0	4639.219	35.488	90.909	2.371%	6.822%
5.0	4522.992	43.229	134.138	2.888%	10.067%
6.0	4337.859	49.724	183.862	3.322%	13.798%
7.0	4090.148	54.662	238.524	3.651%	17.900%
8.0	3813.539	58.202	296.725	3.888%	22.268%
9.0	3490.734	59.883	356.608	4.000%	26.762%
10.0	3138.188	59.759	416.367	3.992%	31.247%
11.0	2805.188	58.697	475.063	3.921%	35.652%
12.0	2463.047	56.157	531.22	3.751%	39.866%
13.0	2109.234	52.031	583.251	3.476%	43.771%
14.0	1785.727	47.374	630.626	3.165%	47.326%
15.0	1494.134	42.407	673.033	2.833%	50.509%
16.0	1241.367	37.522	710.555	2.507%	53.325%
17.0	1069.812	34.300	744.855	2.291%	55.899%
18.0	919.160	31.148	776.003	2.081%	58.237%
19.0	806.611	28.798	804.8	1.924%	60.398%
20.0	721.013	27.042	831.843	1.806%	62.427%
21.0	661.627	26.001	857.844	1.737%	64.378%
22.0	621.879	25.547	883.391	1.707%	66.296%
23.0	591.666	25.352	908.742	1.693%	68.198%
24.0	568.392	25.352	934.094	1.694%	70.101%
25.0	550.413	25.509	959.603	1.704%	72.015%
26.0	535.795	25.757	985.36	1.721%	73.948%
27.0	523.357	26.055	1011.415	1.741%	75.903%
28.0	512.255	26.372	1037.787	1.762%	77.883%
29.0	501.033	26.637	1064.425	1.779%	79.882%
30.0	490.943	26.919	1091.343	1.798%	81.902%
31.0	481.767	27.210	1118.553	1.818%	83.944%
32.0	472.521	27.459	1146.012	1.834%	86.005%
33.0	464.048	27.716	1173.728	1.851%	88.085%
34.0	448.516	27.504	1201.231	1.837%	90.149%
35.0	412.812	25.965	1227.197	1.734%	92.097%
36.0	355.233	22.897	1250.094	1.530%	93.816%
37.0	291.052	19.208	1269.302	1.283%	95.257%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	220.613	14.894	1284.197	.995%	96.375%
39.0	142.327	9.822	1294.019	.656%	97.112%
40.0	84.621	5.965	1299.984	.398%	97.560%
41.0	40.795	2.935	1302.919	.196%	97.780%
42.0	21.945	1.610	1304.529	.108%	97.901%
43.0	15.455	1.156	1305.685	.077%	97.987%
44.0	11.011	0.839	1306.524	.056%	98.050%
45.0	9.169	0.711	1307.234	.047%	98.104%
46.0	8.473	0.668	1307.903	.045%	98.154%
47.0	7.988	0.641	1308.543	.043%	98.202%
48.0	7.763	0.633	1309.176	.042%	98.249%
49.0	7.545	0.624	1309.8	.042%	98.296%
50.0	7.327	0.615	1310.416	.041%	98.343%
51.0	7.144	0.609	1311.025	.041%	98.388%
52.0	7.010	0.606	1311.63	.040%	98.434%
53.0	6.813	0.597	1312.227	.040%	98.478%
54.0	6.694	0.594	1312.821	.040%	98.523%
55.0	6.539	0.587	1313.408	.039%	98.567%
56.0	6.405	0.582	1313.991	.039%	98.611%
57.0	6.279	0.577	1314.568	.039%	98.654%
58.0	6.159	0.573	1315.141	.038%	98.697%
59.0	6.047	0.568	1315.709	.038%	98.740%
60.0	5.955	0.566	1316.275	.038%	98.782%
61.0	5.871	0.563	1316.838	.038%	98.824%
62.0	5.787	0.560	1317.398	.037%	98.867%
63.0	5.709	0.558	1317.956	.037%	98.908%
64.0	5.646	0.556	1318.513	.037%	98.950%
65.0	5.569	0.553	1319.066	.037%	98.992%
66.0	5.513	0.552	1319.618	.037%	99.033%
67.0	5.463	0.551	1320.17	.037%	99.075%
68.0	5.400	0.549	1320.719	.037%	99.116%
69.0	5.365	0.549	1321.268	.037%	99.157%
70.0	5.316	0.548	1321.816	.037%	99.198%
71.0	5.288	0.548	1322.364	.037%	99.239%
72.0	5.259	0.549	1322.913	.037%	99.280%
73.0	5.231	0.549	1323.461	.037%	99.322%
74.0	5.203	0.548	1324.01	.037%	99.363%
75.0	5.168	0.547	1324.557	.037%	99.404%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.168	0.550	1325.107	.037%	99.445%
77.0	5.112	0.546	1325.653	.036%	99.486%
78.0	5.119	0.549	1326.202	.037%	99.527%
79.0	5.105	0.549	1326.752	.037%	99.568%
80.0	5.077	0.548	1327.3	.037%	99.610%
81.0	5.070	0.549	1327.849	.037%	99.651%
82.0	5.077	0.551	1328.401	.037%	99.692%
83.0	5.041	0.549	1328.949	.037%	99.733%
84.0	5.048	0.551	1329.5	.037%	99.775%
85.0	5.013	0.548	1330.047	.037%	99.816%
86.0	4.992	0.546	1330.594	.036%	99.857%
87.0	4.985	0.546	1331.14	.036%	99.898%
88.0	4.971	0.545	1331.684	.036%	99.939%
89.0	4.971	0.545	1332.229	.036%	99.980%
90.0	4.971	0.273	1332.502	.018%	100.000%

Zonal flux distribution table

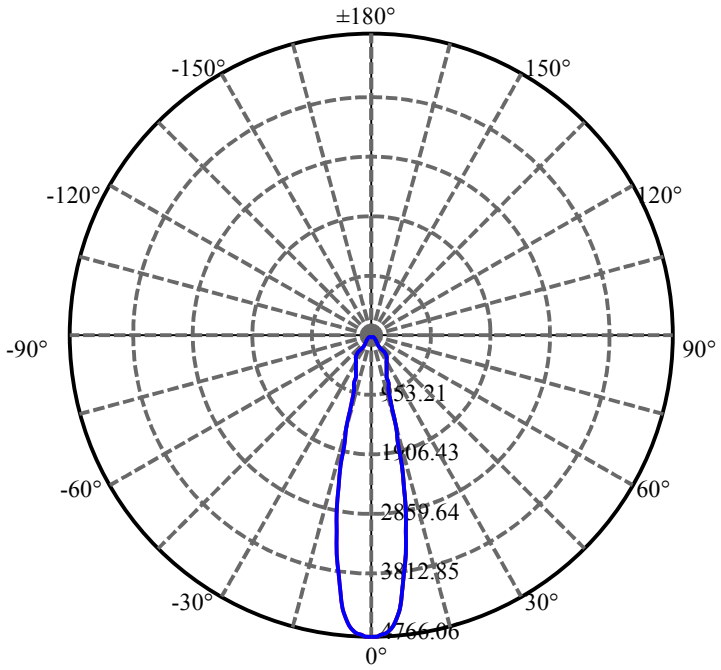
ZONAL LUMEN SUMMARY

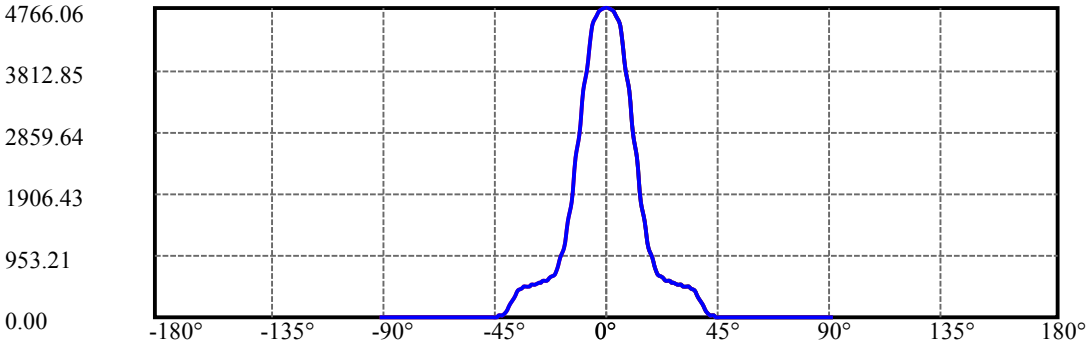
Zone	Lumens	%Lamp	%Fixt
0-30	1091.34	72.90%	81.90%
0-40	1299.98	86.84%	97.56%
0-60	1316.28	87.93%	98.78%
0-90	1332.23	88.99%	99.98%
0-120	1332.23	88.99%	99.98%
0-180	1332.50	89.01%	100.00%
60-90	16.52	1.10%	1.24%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.06	1066.00	71.21%	80.00%

ZONAL LUMEN SUMMARY

0-10	416.37
10-20	415.48
20-30	259.50
30-40	208.64
40-50	10.43
50-60	5.86
60-70	5.54
70-80	5.48
80-90	4.93
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:31.6 Right:31.6
:C90/270Left:31.6 Right:31.6

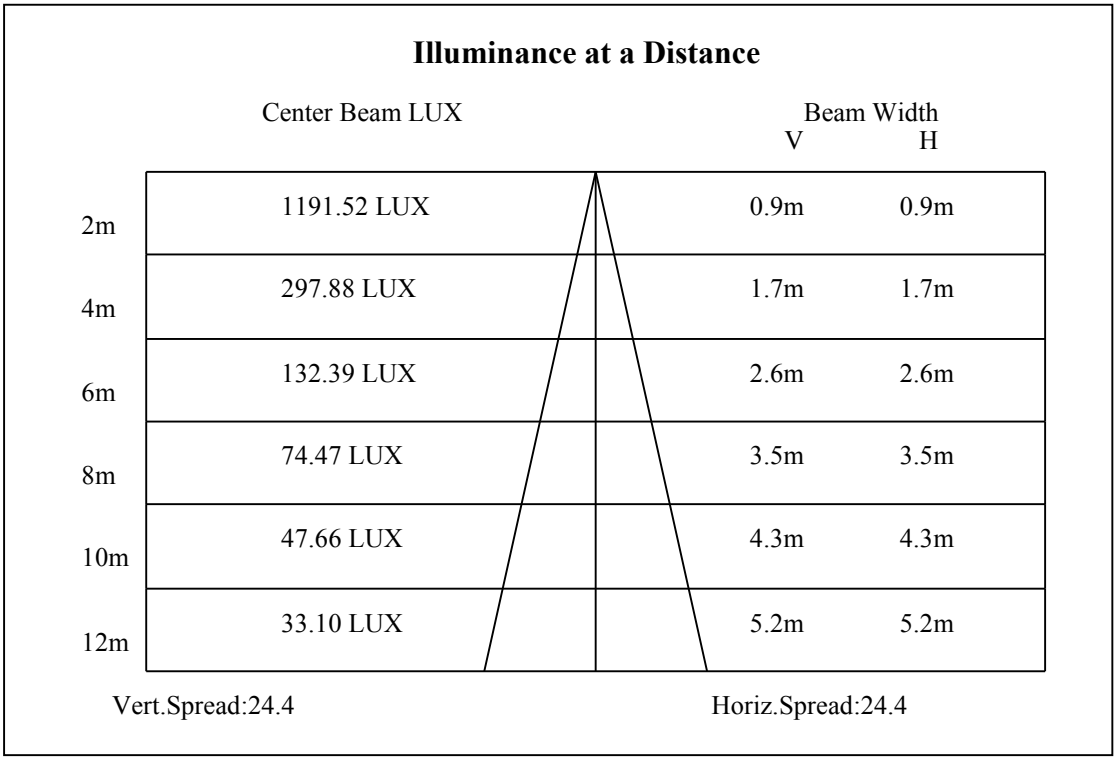
Beam Angle(50%Imax):C0/180Left:12.2 Right:12.2
:C90/270Left:12.2 Right:12.2

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/18
Humidity(%): 65.0%

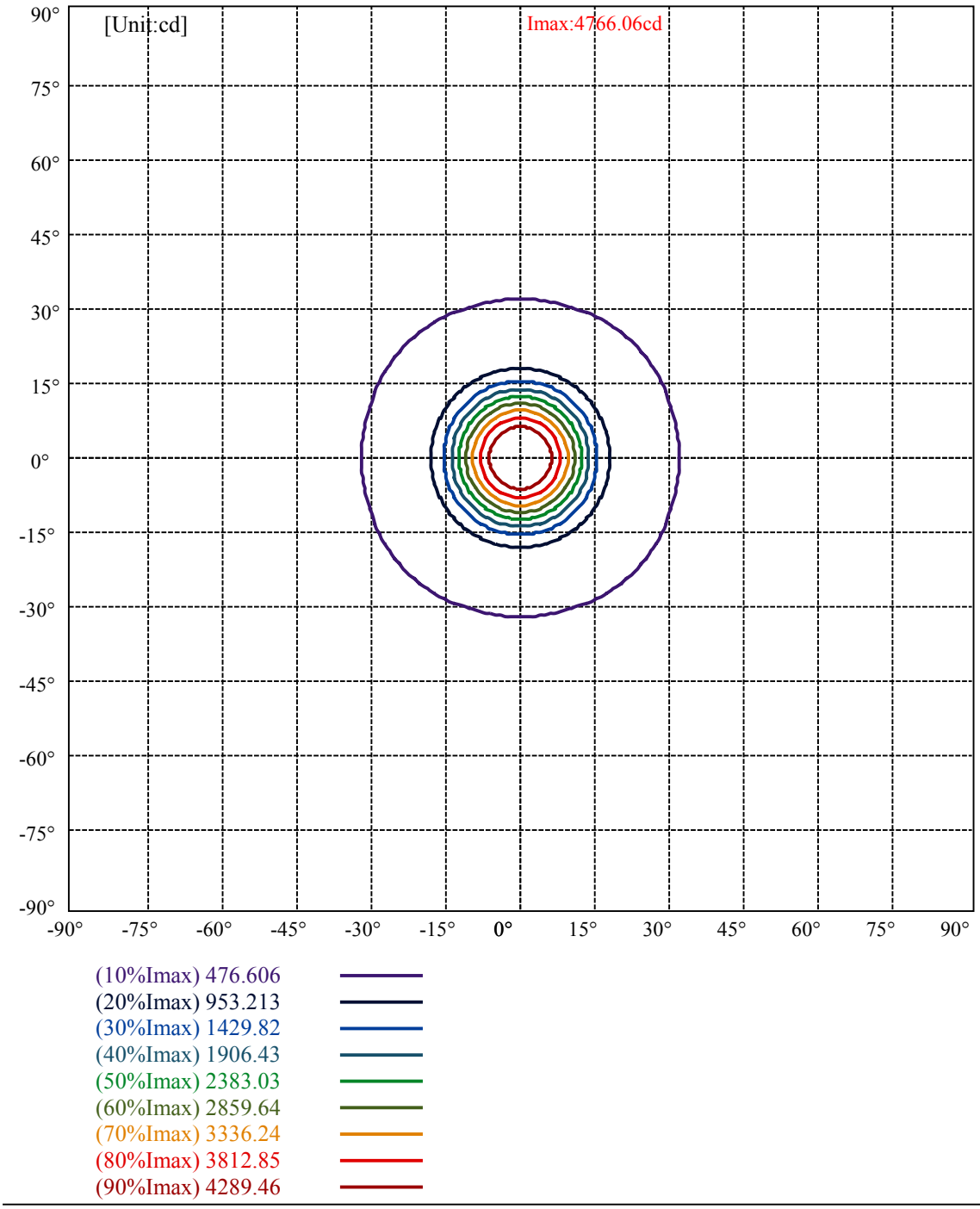
Operator: NT07
Distance(m): 7.50

Lux distance Curve



Equipment: GMS1980 Date: 2019/2/18 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

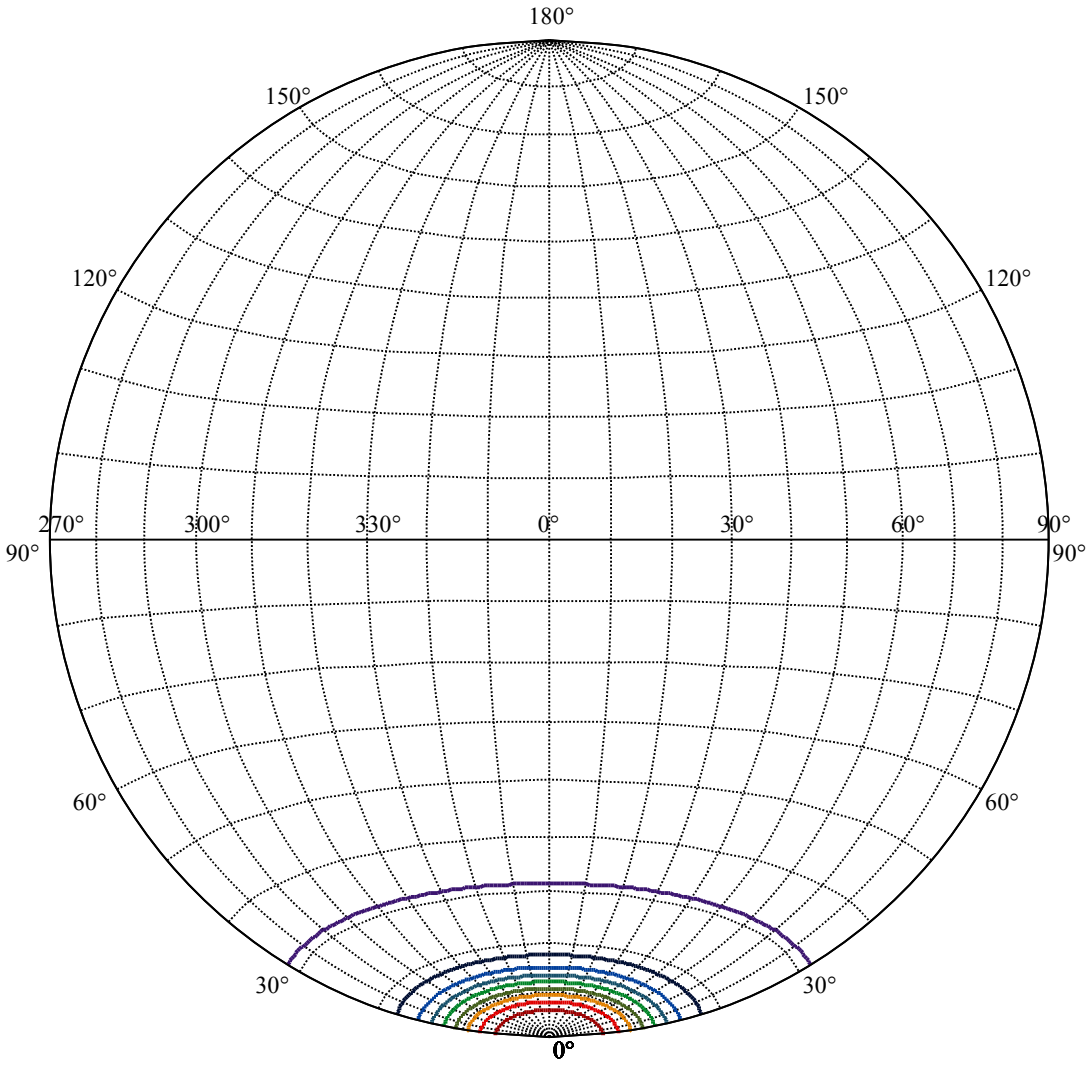


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/18
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:4766.06

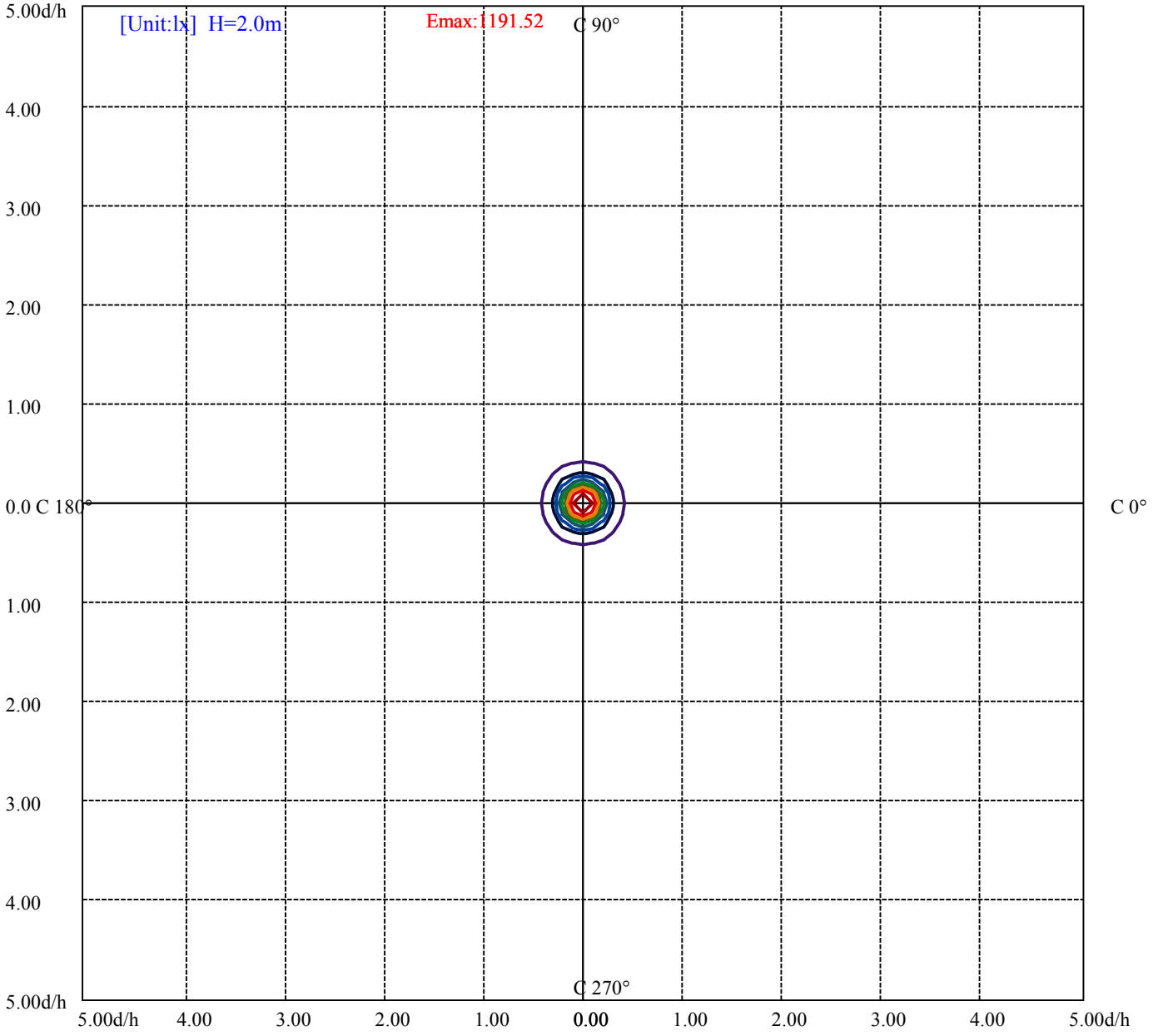
(10%Imax) 476.606
(20%Imax) 953.213
(30%Imax) 1429.82
(40%Imax) 1906.43
(50%Imax) 2383.03
(60%Imax) 2859.64
(70%Imax) 3336.24
(80%Imax) 3812.85
(90%Imax) 4289.46

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/18
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

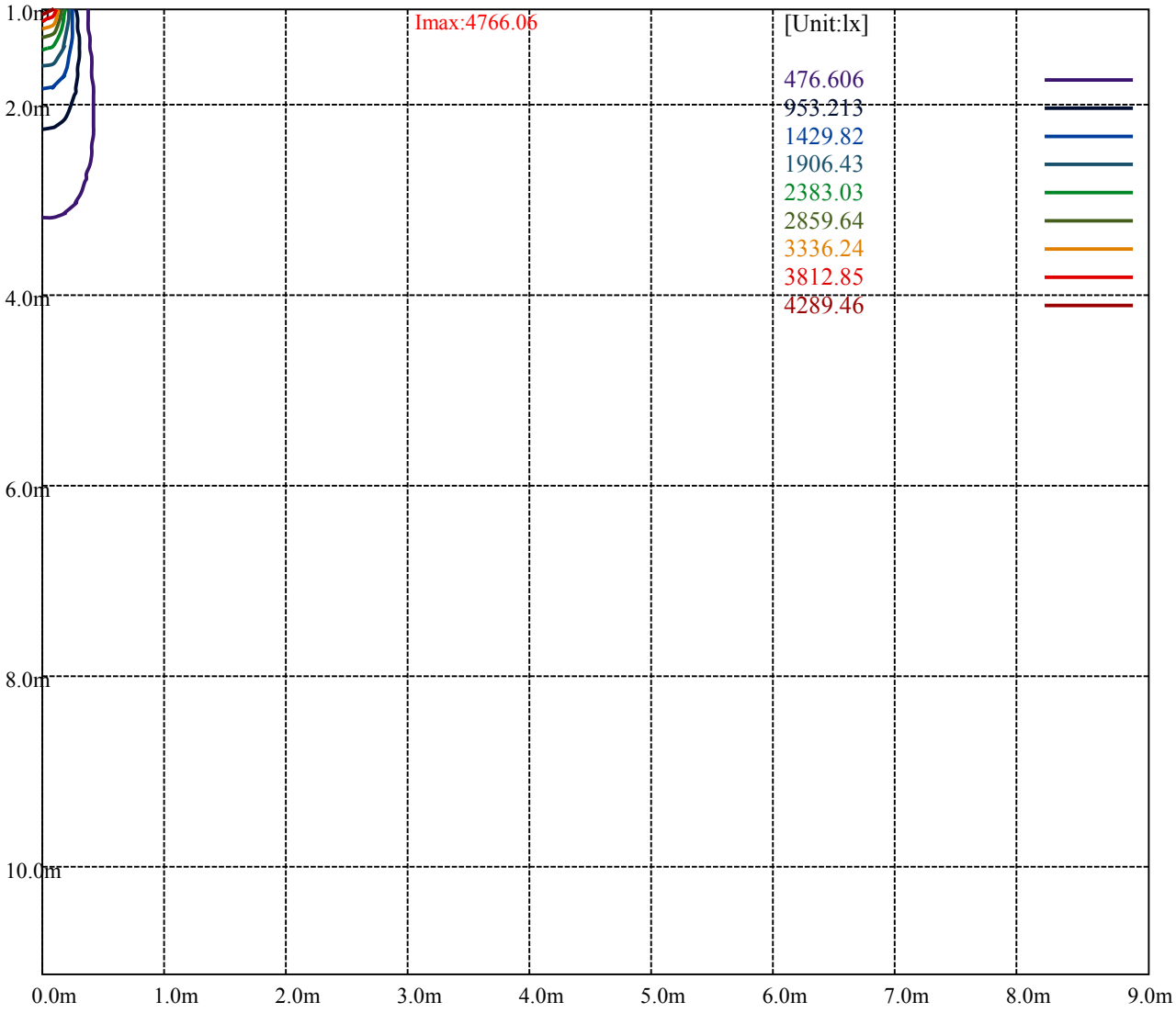
ISO illuminance diagram



(10%Emax) 119.1515
(20%Emax) 238.303
(30%Emax) 357.455
(40%Emax) 476.605
(50%Emax) 595.7575
(60%Emax) 714.91
(70%Emax) 834.06
(80%Emax) 953.2125
(90%Emax) 1072.365

Equipment: GMS1980
Temperature(°C): 10.0
Date: 2019/2/18
Humidity(%): 65.0%
Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/18
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

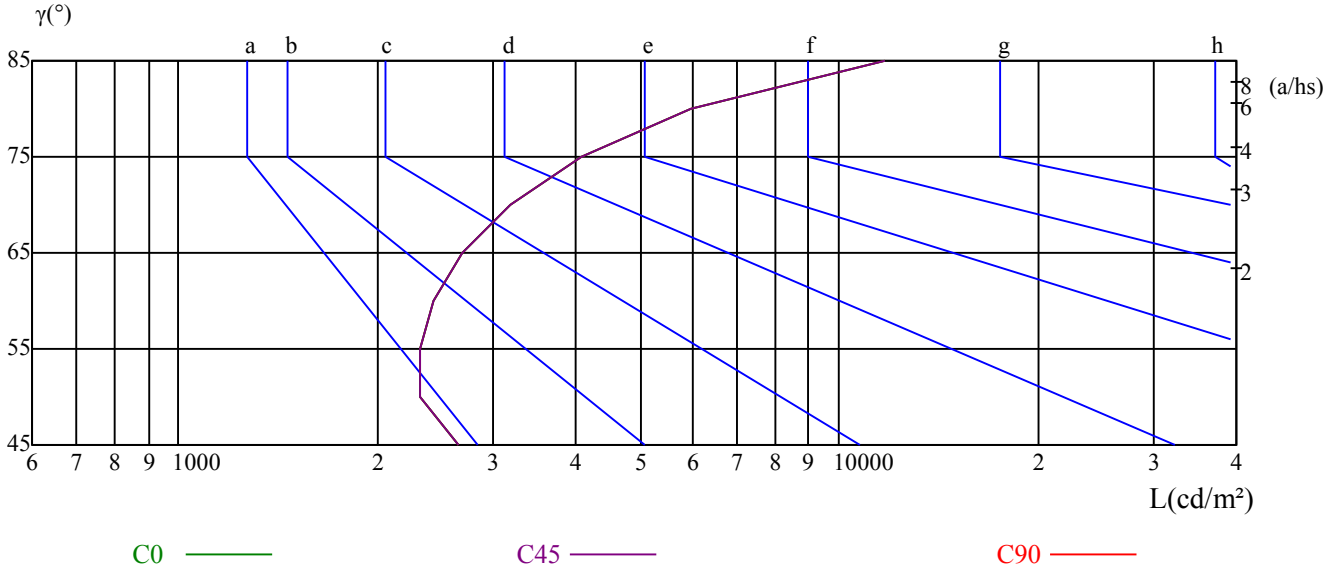
γ	45	50	55	60	65	70	75	80	85
C0	2646	2326	2327	2431	2689	3172	4075	5966	11739
C45	2646	2326	2327	2431	2689	3172	4075	5966	11739
C90	2646	2326	2327	2431	2689	3172	4075	5966	11739

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2689	2689	2689	4075	4075	4075	11739	11739	11739

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

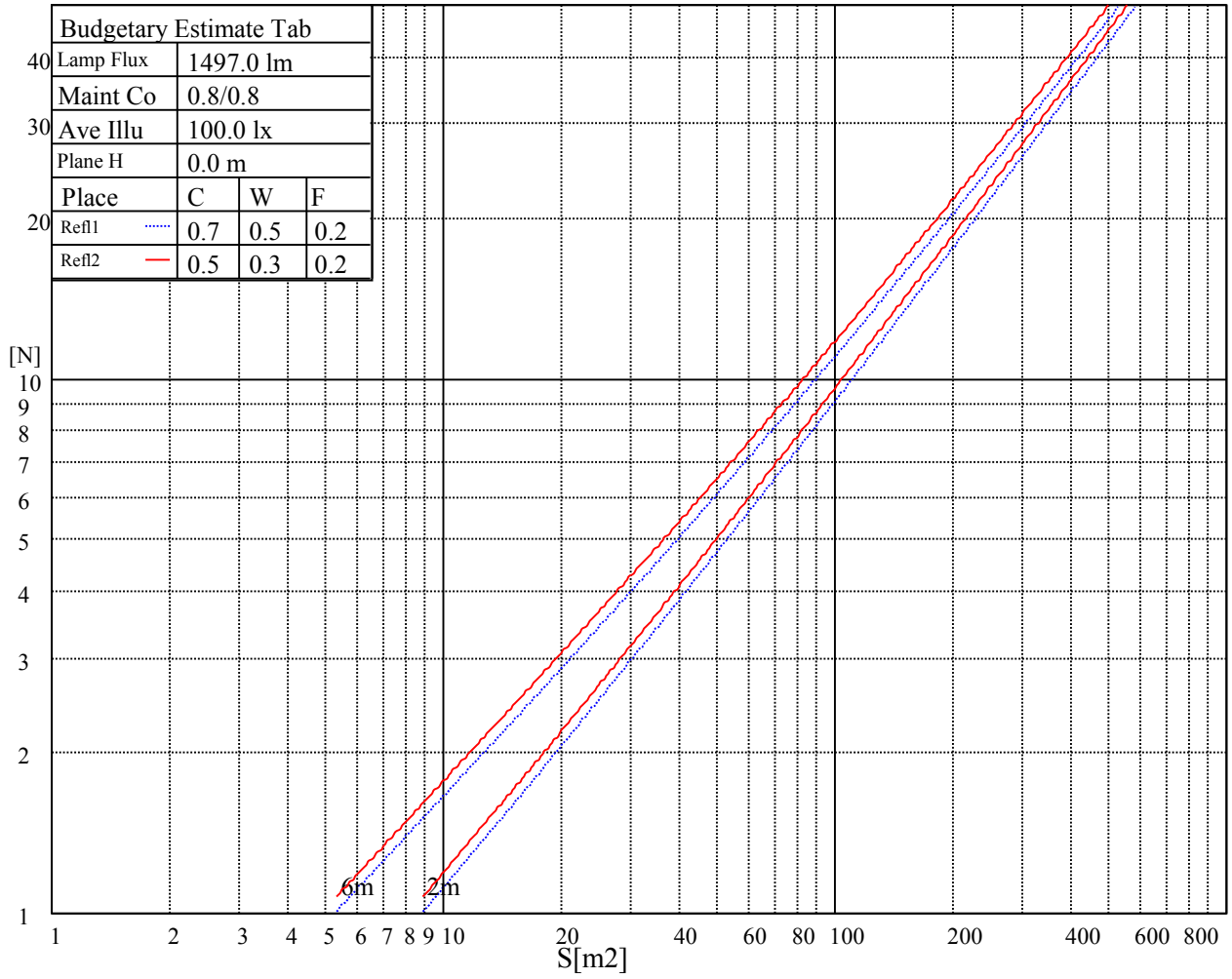
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	2.71	3.62	3.08	3.93	4.25	2.76	3.67	3.12	3.98	4.29
	3H	5.62	6.43	6.01	6.76	7.13	5.63	6.43	6.01	6.76	7.13
	4H	7.25	7.99	7.66	8.35	8.74	7.23	7.97	7.64	8.33	8.72
	6H	9.12	9.80	9.54	10.17	10.57	9.07	9.75	9.49	10.12	10.52
	8H	10.16	10.80	10.60	11.19	11.60	10.10	10.74	10.54	11.13	11.54
	12H	11.87	12.47	12.30	12.86	13.29	11.81	12.41	12.24	12.80	13.23
4H	2H	3.51	4.25	3.91	4.60	4.99	3.54	4.28	3.95	4.63	5.03
	3H	6.70	7.31	7.12	7.72	8.13	6.70	7.31	7.11	7.72	8.12
	4H	8.51	9.06	8.95	9.48	9.93	8.49	9.03	8.93	9.46	9.91
	6H	10.55	11.01	11.02	11.46	11.94	10.50	10.97	10.98	11.42	11.90
	8H	11.70	12.13	12.18	12.58	13.06	11.65	12.08	12.12	12.53	13.01
	12H	13.32	13.69	13.81	14.18	14.66	13.26	13.63	13.76	14.12	14.60
8H	4H	9.20	9.63	9.68	10.08	10.56	9.18	9.61	9.66	10.07	10.54
	6H	11.52	11.86	12.03	12.36	12.85	11.48	11.82	11.99	12.32	12.81
	8H	12.86	13.16	13.40	13.69	14.19	12.81	13.11	13.35	13.64	14.14
	12H	14.64	14.89	15.16	15.39	15.97	14.58	14.84	15.11	15.34	15.92
12H	4H	9.39	9.76	9.89	10.25	10.73	9.38	9.75	9.87	10.24	10.72
	6H	12.02	12.13	12.36	12.60	13.15	11.98	12.09	12.33	12.56	13.11
	8H	13.30	13.56	13.83	14.06	14.64	13.26	13.52	13.78	14.02	14.60

Variation with the observer position at spacings:

S = 1.0H	5.3/-9.0	5.3/-9.0
S = 1.5H	7.7/-7.0	7.7/-7.0
S = 2.0H	9.2/-5.3	9.2/-5.3
Standard tables:	BK2	BK2
Uncorrected UGR	0.2	0.2

Equipment: GMS1980 Date: 2019/2/18 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

Budgetary Estimate Table

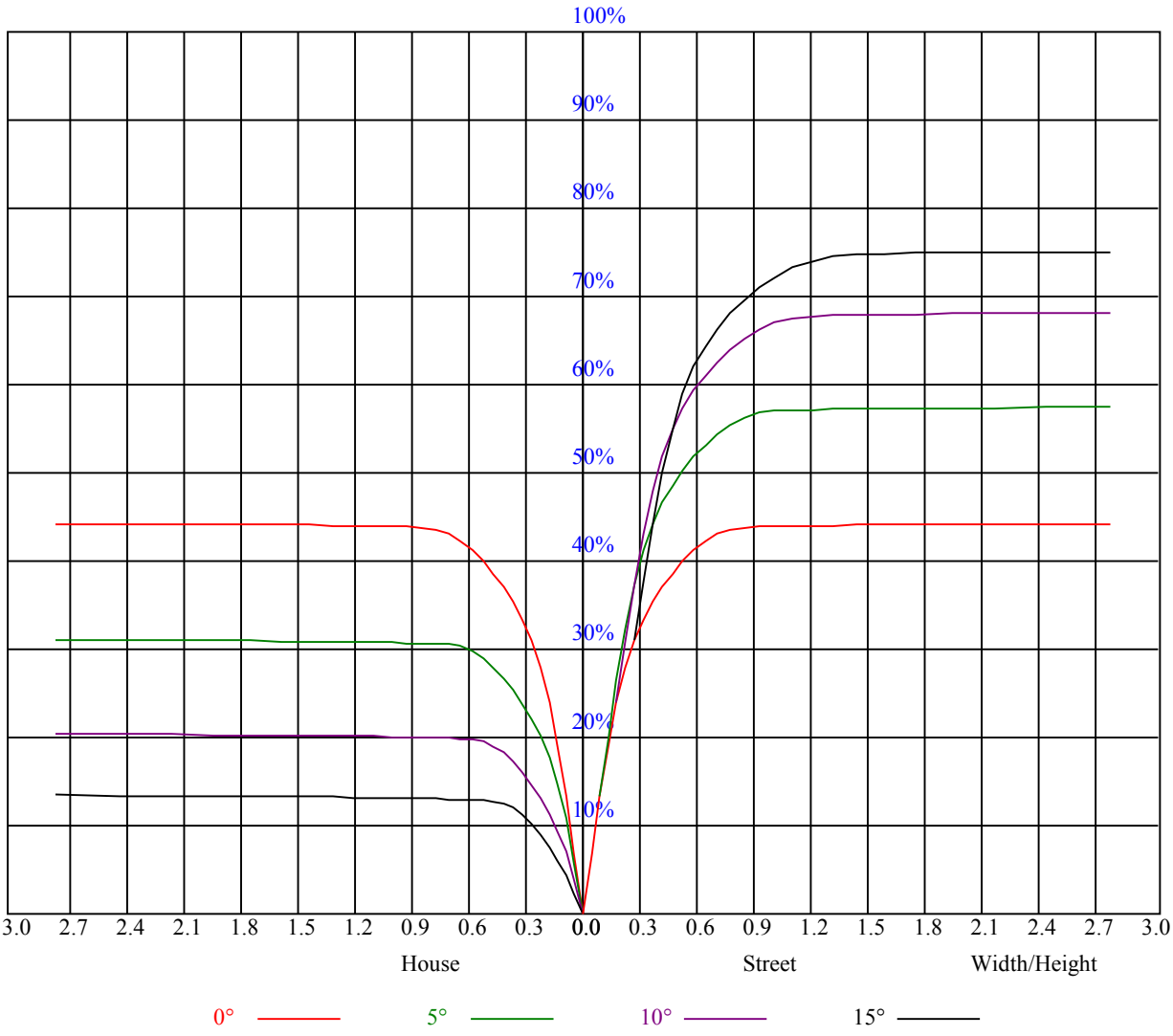


Equipment: GMS1980 Date: 2019/2/18 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.06	1.06	1.06	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	1.00	0.98	0.96	0.98	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	0.88	0.93	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.84	0.85	0.83	0.82	0.81
3	0.89	0.85	0.82	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.81	0.79	0.82	0.80	0.78	0.77
4	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.78	0.76	0.79	0.77	0.75	0.73
5	0.81	0.77	0.74	0.80	0.76	0.73	0.79	0.75	0.73	0.77	0.74	0.72	0.76	0.74	0.71	0.70
6	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.73	0.71	0.69	0.68
7	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
8	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.69	0.66	0.63	0.62
9	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.60
10	0.67	0.62	0.60	0.66	0.62	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.58

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/2/18	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	4757.06	4747.50	4733.44	4703.06	4642.88	4526.44	4356.56	4107.38	3843.00
45.0	4771.69	4771.69	4766.06	4741.88	4695.75	4607.44	4446.56	4264.31	3943.13
90.0	4773.38	4772.81	4762.13	4723.31	4669.31	4584.94	4421.25	4183.88	3926.81
135.0	4762.13	4771.69	4771.13	4757.63	4719.94	4655.81	4533.75	4337.44	4108.50
180.0	4757.06	4758.19	4752.00	4721.06	4662.56	4553.44	4363.88	4110.75	3841.88
225.0	4771.69	4759.88	4731.75	4694.63	4600.69	4460.06	4264.31	3952.69	3668.06
270.0	4773.38	4759.31	4726.13	4682.81	4592.25	4429.13	4227.19	3945.38	3656.81
315.0	4762.13	4741.31	4707.00	4633.88	4530.38	4366.69	4089.38	3819.38	3520.13
360.0	4757.06	4747.50	4733.44	4703.06	4642.88	4526.44	4356.56	4107.38	3843.00

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3513.94	3160.69	2839.50	2509.88	2108.25	1807.88	1540.13	1256.06	1074.38
45.0	3648.38	3297.38	2931.19	2603.81	2275.88	1890.00	1617.75	1383.19	1140.19
90.0	3596.06	3243.94	2923.88	2558.81	2235.38	1891.69	1586.81	1354.50	1114.26
135.0	3810.94	3475.13	3158.44	2830.50	2413.13	2090.25	1792.69	1496.81	1249.88
180.0	3506.63	3151.69	2828.25	2457.56	2134.69	1793.81	1492.88	1115.83	1072.35
225.0	3364.31	3010.50	2643.75	2316.38	2004.19	1652.63	1406.25	1103.96	1005.02
270.0	3317.63	2961.00	2638.69	2313.56	1927.13	1646.44	1400.63	1147.50	991.69
315.0	3168.00	2805.19	2477.81	2113.88	1775.25	1513.13	1115.94	1073.08	910.74
360.0	3513.94	3160.69	2839.50	2509.88	2108.25	1807.88	1540.13	1256.06	1074.38

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	930.38	807.19	720.00	668.25	630.56	596.25	576.00	557.44	543.38
45.0	981.00	853.88	748.69	680.06	633.38	596.81	572.63	554.06	535.50
90.0	961.20	840.26	748.24	668.98	626.79	595.41	568.35	547.43	532.69
135.0	1068.75	907.88	791.44	714.94	654.75	618.19	586.69	564.75	549.00
180.0	890.21	785.08	709.71	651.88	612.79	587.42	567.84	548.66	536.18
225.0	862.59	768.43	694.52	643.11	610.59	582.98	563.91	546.86	532.80
270.0	867.94	774.56	692.44	647.44	614.81	586.69	565.31	549.56	533.81
315.0	791.21	715.61	663.08	618.36	591.36	569.59	546.41	534.54	523.01
360.0	930.38	807.19	720.00	668.25	630.56	596.25	576.00	557.44	543.38

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	529.88	519.19	507.94	499.50	489.38	479.81	472.50	457.31	420.75
45.0	523.69	512.44	501.19	490.50	481.50	470.81	463.50	454.50	435.94
90.0	518.96	507.04	497.53	485.10	476.72	468.17	459.17	450.39	434.14
135.0	535.50	521.44	511.31	499.50	487.69	480.38	471.94	462.38	448.31
180.0	523.86	513.84	502.03	491.96	482.68	473.63	464.12	451.18	415.63
225.0	521.72	511.88	498.26	489.43	481.33	470.64	461.59	442.69	388.86
270.0	521.44	511.88	498.94	489.94	481.50	472.50	464.06	445.50	394.31
315.0	511.82	500.34	491.06	481.61	473.34	464.23	455.51	424.18	364.56
360.0	529.88	519.19	507.94	499.50	489.38	479.81	472.50	457.31	420.75

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	365.06	289.69	204.19	135.90	78.75	35.72	20.03	15.47	10.91
45.0	387.00	326.81	290.25	180.45	114.75	55.29	25.65	17.89	11.98
90.0	370.01	319.50	256.05	175.11	113.91	61.37	23.96	17.78	12.38
135.0	411.75	349.88	291.94	201.60	140.85	70.03	30.99	20.87	14.12
180.0	354.49	280.13	210.60	134.94	70.37	33.08	20.48	13.84	9.73
225.0	319.73	254.25	178.99	115.65	57.38	23.63	19.24	13.33	10.13
270.0	335.25	286.31	179.38	116.10	62.55	26.66	18.79	13.78	10.01
315.0	298.58	221.85	153.51	78.86	38.42	20.59	16.43	10.69	8.83
360.0	365.06	289.69	204.19	135.90	78.75	35.72	20.03	15.47	10.91

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	9.62	8.89	8.04	7.82	7.54	7.31	7.14	7.03	6.81
45.0	9.00	8.38	8.10	7.88	7.65	7.43	7.20	7.09	6.92
90.0	9.17	8.27	7.88	7.65	7.48	7.31	7.09	6.98	6.86
135.0	10.35	9.51	8.21	7.99	7.76	7.48	7.31	7.14	6.98
180.0	8.78	8.33	8.04	7.82	7.59	7.43	7.26	7.09	6.86
225.0	9.34	8.21	7.93	7.71	7.54	7.26	7.09	6.98	6.75
270.0	8.78	8.16	7.93	7.71	7.48	7.26	7.09	6.98	6.69
315.0	8.33	8.04	7.76	7.54	7.31	7.14	6.98	6.81	6.64
360.0	9.62	8.89	8.04	7.82	7.54	7.31	7.14	7.03	6.81

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	6.69	6.53	6.41	6.24	6.19	6.08	5.91	5.85	5.74
45.0	6.81	6.64	6.47	6.36	6.19	6.08	6.02	5.91	5.85
90.0	6.69	6.53	6.41	6.24	6.13	6.08	5.96	5.85	5.79
135.0	6.81	6.69	6.53	6.36	6.24	6.13	6.02	5.96	5.79
180.0	6.75	6.58	6.47	6.36	6.19	6.08	6.02	5.91	5.85
225.0	6.64	6.53	6.36	6.30	6.19	6.02	5.96	5.91	5.85
270.0	6.64	6.47	6.36	6.24	6.13	6.02	5.91	5.85	5.74
315.0	6.53	6.36	6.24	6.13	6.02	5.91	5.85	5.74	5.68
360.0	6.69	6.53	6.41	6.24	6.19	6.08	5.91	5.85	5.74

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	5.68	5.63	5.57	5.46	5.40	5.34	5.29	5.23	5.23
45.0	5.79	5.68	5.57	5.57	5.51	5.40	5.40	5.34	5.29
90.0	5.74	5.68	5.57	5.51	5.46	5.46	5.34	5.34	5.29
135.0	5.74	5.68	5.63	5.57	5.46	5.46	5.40	5.34	5.29
180.0	5.74	5.68	5.63	5.51	5.46	5.40	5.40	5.34	5.34
225.0	5.74	5.68	5.57	5.51	5.51	5.46	5.40	5.34	5.34
270.0	5.68	5.63	5.57	5.57	5.51	5.40	5.40	5.34	5.34
315.0	5.57	5.51	5.46	5.40	5.40	5.29	5.29	5.23	5.18
360.0	5.68	5.63	5.57	5.46	5.40	5.34	5.29	5.23	5.23

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.18	5.18	5.18	5.12	5.12	5.06	5.06	5.06	5.01
45.0	5.29	5.23	5.23	5.18	5.18	5.12	5.12	5.12	5.12
90.0	5.29	5.23	5.18	5.18	5.18	5.12	5.12	5.12	5.06
135.0	5.29	5.29	5.23	5.18	5.18	5.12	5.12	5.12	5.06
180.0	5.29	5.23	5.18	5.12	5.18	5.12	5.12	5.06	5.06
225.0	5.29	5.29	5.23	5.23	5.18	5.12	5.18	5.12	5.12
270.0	5.29	5.23	5.29	5.23	5.23	5.18	5.18	5.18	5.18
315.0	5.18	5.18	5.12	5.12	5.12	5.06	5.06	5.06	5.01
360.0	5.18	5.18	5.18	5.12	5.12	5.06	5.06	5.06	5.01

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.06	5.06	5.01	5.01	4.95	5.01	5.01	5.01	4.95
45.0	5.06	5.06	5.06	5.06	5.06	5.01	5.01	5.01	5.01
90.0	5.06	5.12	5.06	5.06	5.01	5.01	4.95	4.95	4.95
135.0	5.01	5.06	5.01	5.06	5.06	5.01	5.01	5.01	4.95
180.0	5.06	5.06	5.01	5.01	5.01	4.95	5.01	4.95	5.01
225.0	5.12	5.06	5.06	5.06	5.01	5.01	5.01	4.95	5.01
270.0	5.18	5.18	5.12	5.12	5.01	5.01	4.95	4.95	4.95
315.0	5.01	5.01	5.01	5.01	5.01	4.95	4.95	4.95	4.95
360.0	5.06	5.06	5.01	5.01	4.95	5.01	5.01	5.01	4.95

Intensity data(cd)

C/γ(°)	90.0
0.0	4.95
45.0	5.01
90.0	4.95
135.0	4.95
180.0	4.95
225.0	5.01
270.0	5.01
315.0	4.95
360.0	4.95