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

NATA

LumCAT: 4-1966-M
Luminaire:

Report No: NATA0100	Voltage(V): 17.9000
Test No: GC2018103005	Current(A): 0.6000
LampCAT: XTM XTM LES 19MM	Power (W): 10.7400
Lamp flux(lm): 1088.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 100	Width(mm): 100
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 950.43
Efficiency(%): 87.36%
Lumens(lm)/Power(W): 88.69
Central intensity(cd): 9118.124
Maximum intensity(cd): 9118.124
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=13.0
[C90/270]Total=13.0
Field angle(10%Imax): [C0/180]Total=25.4
[C90/270]Total=25.4
Maximum s/h(1/2): C0_180=0.23 C90_270=0.23
Maximum s/h(1/4): C0_180=0.22 C90_270=0.22
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 87.55%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.570%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9118.125	2.181	2.181	.201%	.230%
1.0	9020.883	17.265	19.446	1.587%	2.046%
2.0	8646.820	33.092	52.538	3.042%	5.528%
3.0	8028.844	46.079	98.618	4.235%	10.376%
4.0	7269.609	55.609	154.227	5.111%	16.227%
5.0	6164.648	58.919	213.146	5.415%	22.426%
6.0	5094.914	58.401	271.547	5.368%	28.571%
7.0	4038.117	53.967	325.514	4.960%	34.249%
8.0	3096.703	47.261	372.775	4.344%	39.222%
9.0	2339.086	40.126	412.902	3.688%	43.444%
10.0	1766.173	33.632	446.534	3.091%	46.982%
11.0	1334.595	27.925	474.459	2.567%	49.921%
12.0	1034.332	23.583	498.042	2.168%	52.402%
13.0	857.869	21.162	519.204	1.945%	54.629%
14.0	702.084	18.626	537.83	1.712%	56.588%
15.0	604.638	17.161	554.991	1.577%	58.394%
16.0	534.874	16.167	571.158	1.486%	60.095%
17.0	484.896	15.547	586.705	1.429%	61.731%
18.0	447.413	15.162	601.867	1.394%	63.326%
19.0	424.195	15.145	617.011	1.392%	64.919%
20.0	404.880	15.186	632.197	1.396%	66.517%
21.0	391.359	15.380	647.577	1.414%	68.135%
22.0	382.584	15.716	663.293	1.445%	69.789%
23.0	375.166	16.075	679.368	1.477%	71.480%
24.0	369.211	16.468	695.836	1.514%	73.213%
25.0	364.507	16.893	712.729	1.553%	74.990%
26.0	359.712	17.292	730.021	1.589%	76.810%
27.0	355.212	17.684	747.706	1.625%	78.671%
28.0	350.930	18.067	765.772	1.661%	80.571%
29.0	346.050	18.398	784.17	1.691%	82.507%
30.0	341.571	18.728	802.898	1.721%	84.478%
31.0	335.454	18.946	821.845	1.741%	86.471%
32.0	323.213	18.782	840.627	1.726%	88.447%
33.0	305.599	18.252	858.879	1.678%	90.368%
34.0	278.705	17.091	875.97	1.571%	92.166%
35.0	239.231	15.047	891.017	1.383%	93.749%
36.0	197.571	12.735	903.752	1.170%	95.089%
37.0	154.835	10.218	913.97	.939%	96.164%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	112.029	7.564	921.534	.695%	96.960%
39.0	71.902	4.962	926.496	.456%	97.482%
40.0	43.559	3.070	929.566	.282%	97.805%
41.0	23.709	1.706	931.272	.157%	97.985%
42.0	12.614	0.926	932.198	.085%	98.082%
43.0	8.184	0.612	932.81	.056%	98.146%
44.0	5.927	0.452	933.261	.042%	98.194%
45.0	4.718	0.366	933.627	.034%	98.232%
46.0	4.549	0.359	933.986	.033%	98.270%
47.0	4.409	0.354	934.34	.032%	98.307%
48.0	4.303	0.351	934.69	.032%	98.344%
49.0	4.226	0.350	935.04	.032%	98.381%
50.0	4.177	0.351	935.391	.032%	98.418%
51.0	4.120	0.351	935.742	.032%	98.455%
52.0	4.071	0.352	936.094	.032%	98.492%
53.0	4.036	0.353	936.447	.032%	98.529%
54.0	3.959	0.351	936.799	.032%	98.566%
55.0	3.945	0.354	937.153	.033%	98.603%
56.0	3.916	0.356	937.509	.033%	98.641%
57.0	3.888	0.358	937.867	.033%	98.679%
58.0	3.874	0.360	938.227	.033%	98.716%
59.0	3.846	0.362	938.588	.033%	98.754%
60.0	3.839	0.365	938.953	.034%	98.793%
61.0	3.811	0.366	939.318	.034%	98.831%
62.0	3.790	0.367	939.685	.034%	98.870%
63.0	3.783	0.370	940.055	.034%	98.909%
64.0	3.755	0.370	940.425	.034%	98.948%
65.0	3.748	0.372	940.798	.034%	98.987%
66.0	3.755	0.376	941.174	.035%	99.026%
67.0	3.755	0.379	941.553	.035%	99.066%
68.0	3.720	0.378	941.931	.035%	99.106%
69.0	3.713	0.380	942.311	.035%	99.146%
70.0	3.705	0.382	942.693	.035%	99.186%
71.0	3.713	0.385	943.078	.035%	99.227%
72.0	3.713	0.387	943.465	.036%	99.268%
73.0	3.698	0.388	943.853	.036%	99.308%
74.0	3.698	0.390	944.243	.036%	99.349%
75.0	3.691	0.391	944.634	.036%	99.391%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	3.684	0.392	945.026	.036%	99.432%
77.0	3.677	0.393	945.419	.036%	99.473%
78.0	3.691	0.396	945.815	.036%	99.515%
79.0	3.684	0.397	946.211	.036%	99.556%
80.0	3.691	0.399	946.61	.037%	99.598%
81.0	3.663	0.397	947.007	.036%	99.640%
82.0	3.677	0.399	947.406	.037%	99.682%
83.0	3.684	0.401	947.807	.037%	99.724%
84.0	3.698	0.403	948.21	.037%	99.767%
85.0	3.691	0.403	948.614	.037%	99.809%
86.0	3.748	0.410	949.024	.038%	99.852%
87.0	3.670	0.402	949.425	.037%	99.895%
88.0	3.656	0.401	949.826	.037%	99.937%
89.0	3.649	0.400	950.226	.037%	99.979%
90.0	3.649	0.200	950.426	.018%	100.000%

Zonal flux distribution table

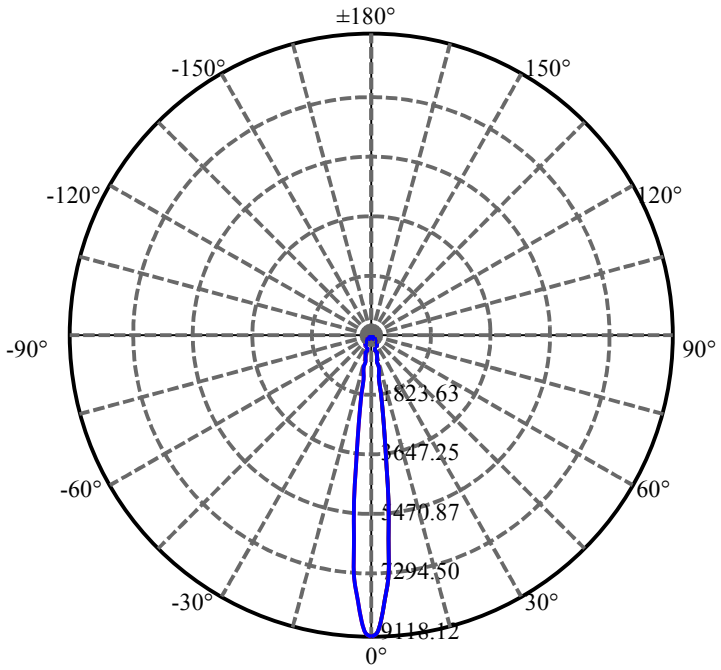
ZONAL LUMEN SUMMARY

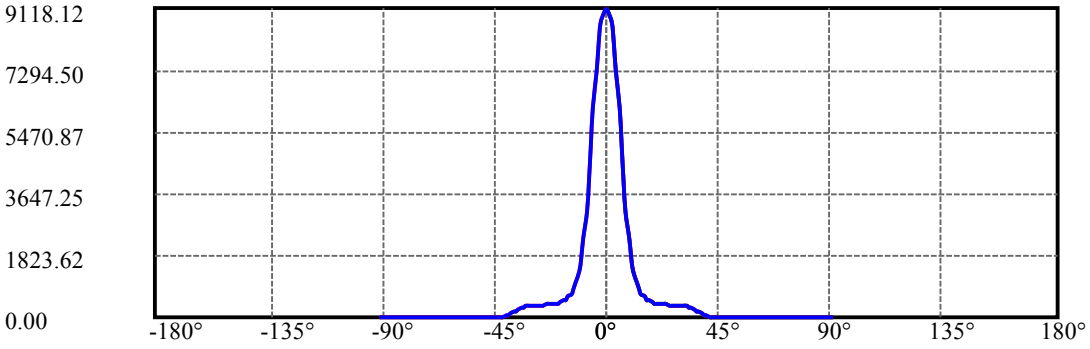
Zone	Lumens	%Lamp	%Fixt
0-30	802.90	73.80%	84.48%
0-40	929.57	85.44%	97.81%
0-60	938.95	86.30%	98.79%
0-90	950.23	87.34%	99.98%
0-120	950.23	87.34%	99.98%
0-180	950.43	87.36%	100.00%
60-90	11.64	1.07%	1.22%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.70	760.34	69.88%	80.00%

ZONAL LUMEN SUMMARY

0-10	446.53
10-20	185.66
20-30	170.70
30-40	126.67
40-50	5.82
50-60	3.56
60-70	3.74
70-80	3.92
80-90	3.62
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):

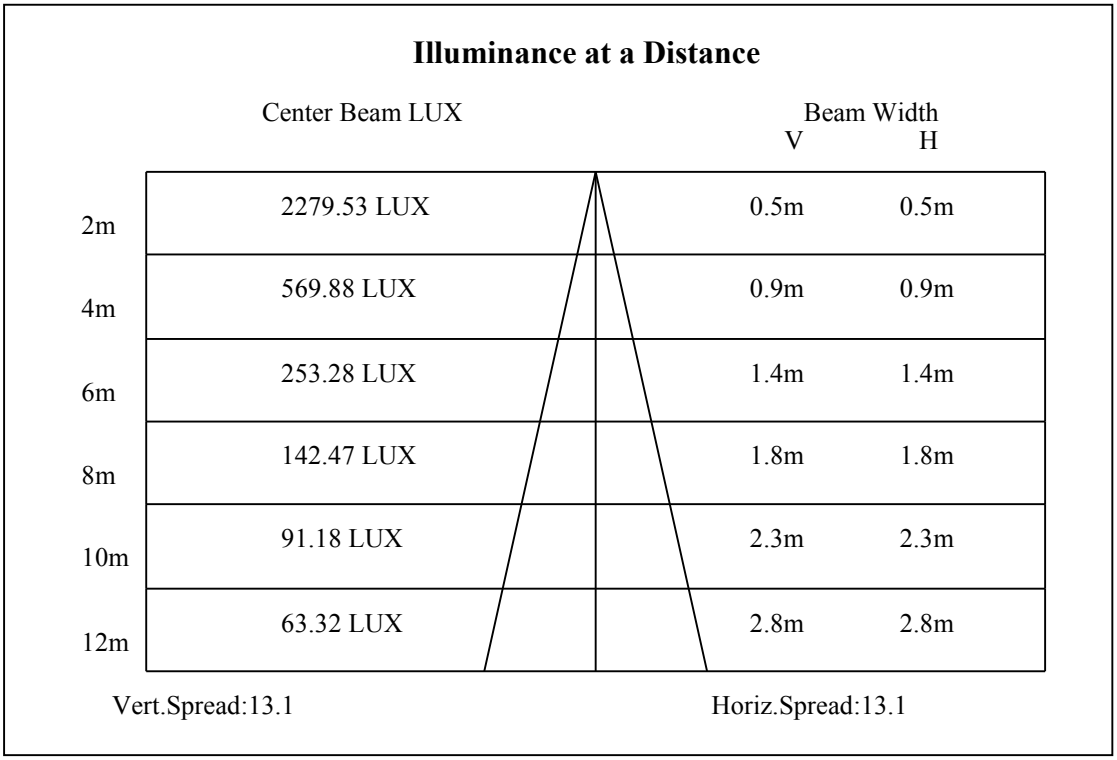
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:12.7 Right:12.7
:C90/270Left:12.7 Right:12.7

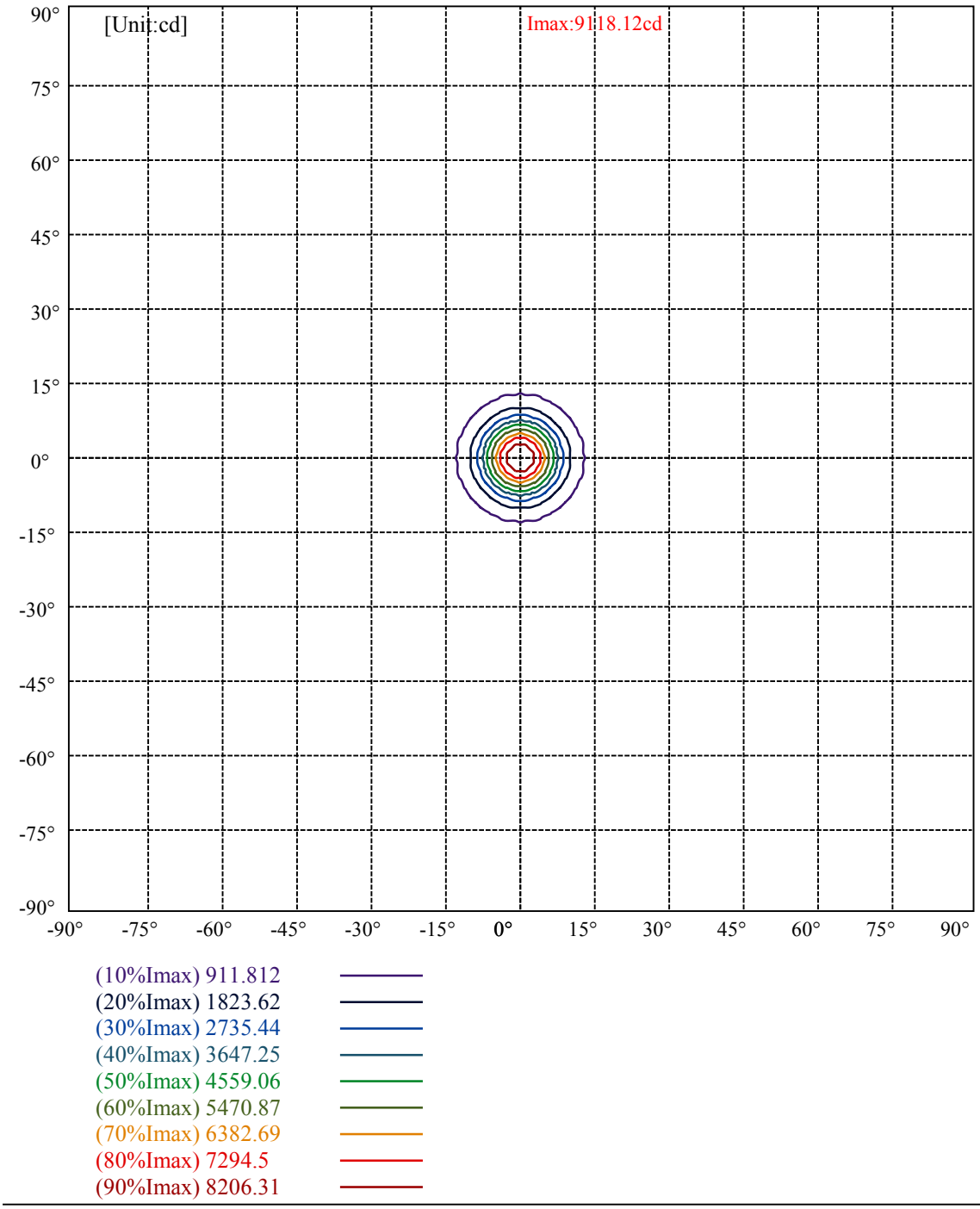
Beam Angle(50%Imax):C0/180Left:6.5 Right:6.5
:C90/270Left:6.5 Right:6.5

Lux distance Curve



Equipment: GMS1980 Date: 2018/10/30 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)



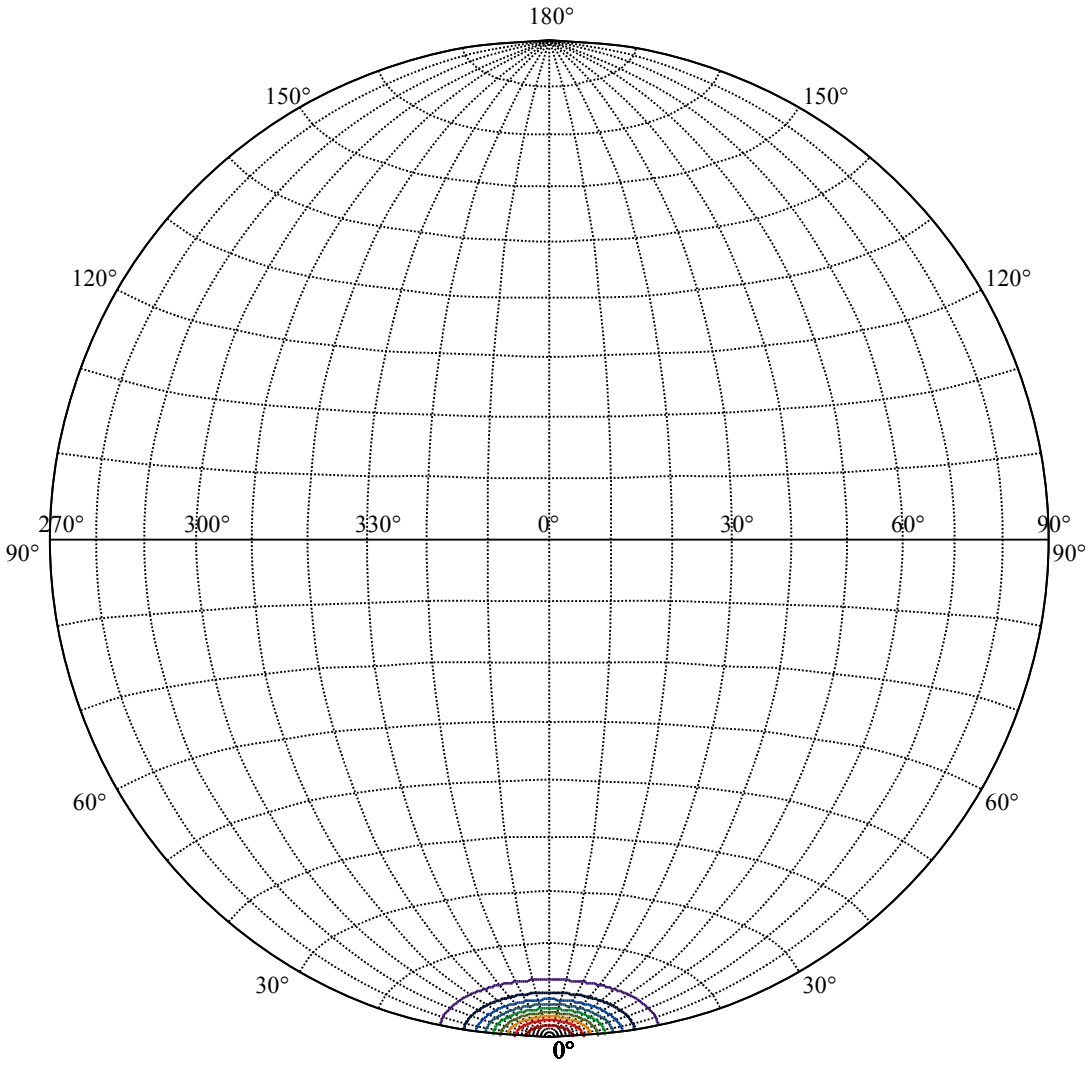
(10%Imax) 911.812
(20%Imax) 1823.62
(30%Imax) 2735.44
(40%Imax) 3647.25
(50%Imax) 4559.06
(60%Imax) 5470.87
(70%Imax) 6382.69
(80%Imax) 7294.5
(90%Imax) 8206.31

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/10/30
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:9118.12

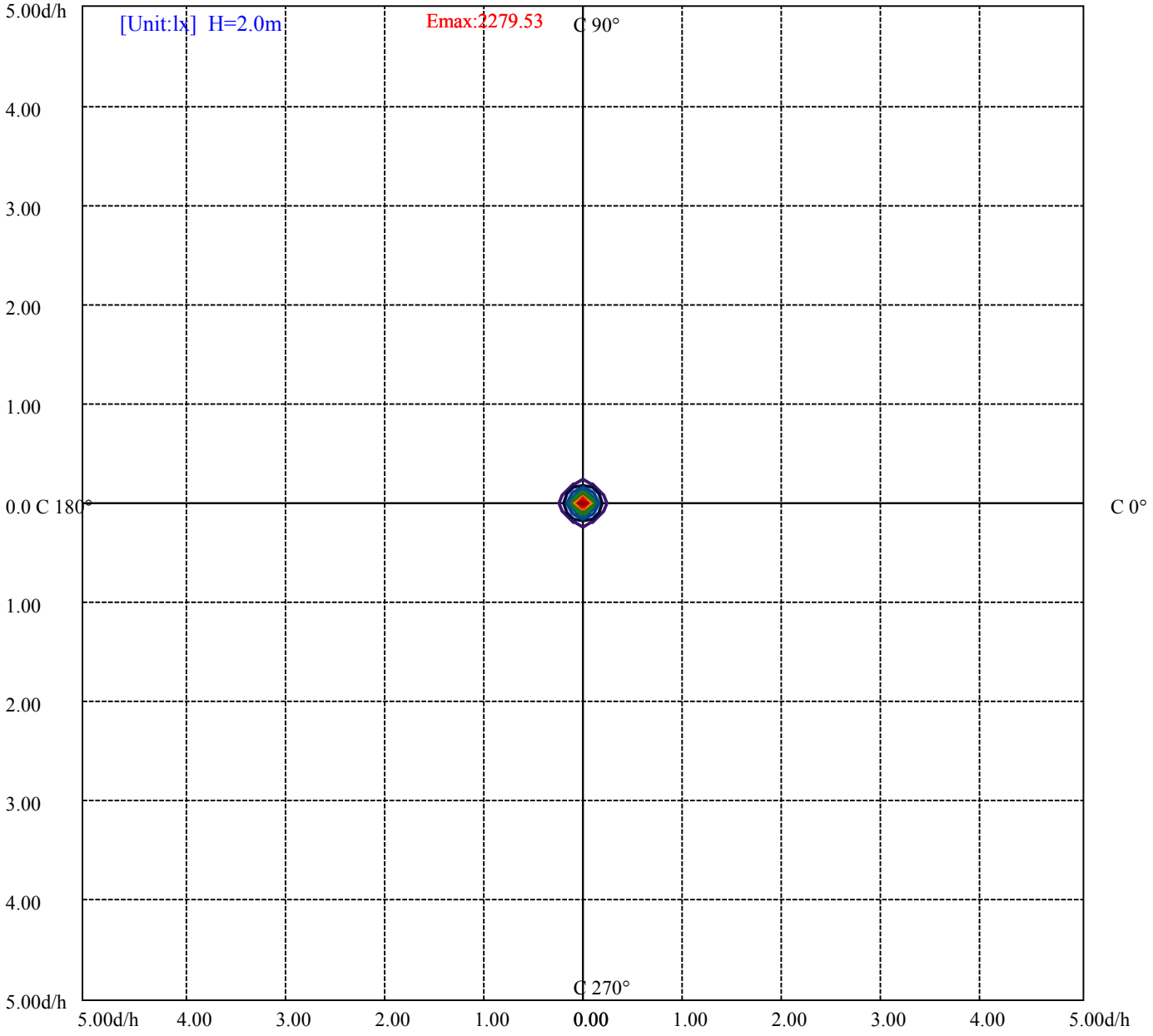
(10%Imax) 911.812
(20%Imax) 1823.62
(30%Imax) 2735.44
(40%Imax) 3647.25
(50%Imax) 4559.06
(60%Imax) 5470.87
(70%Imax) 6382.69
(80%Imax) 7294.5
(90%Imax) 8206.31

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/10/30
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

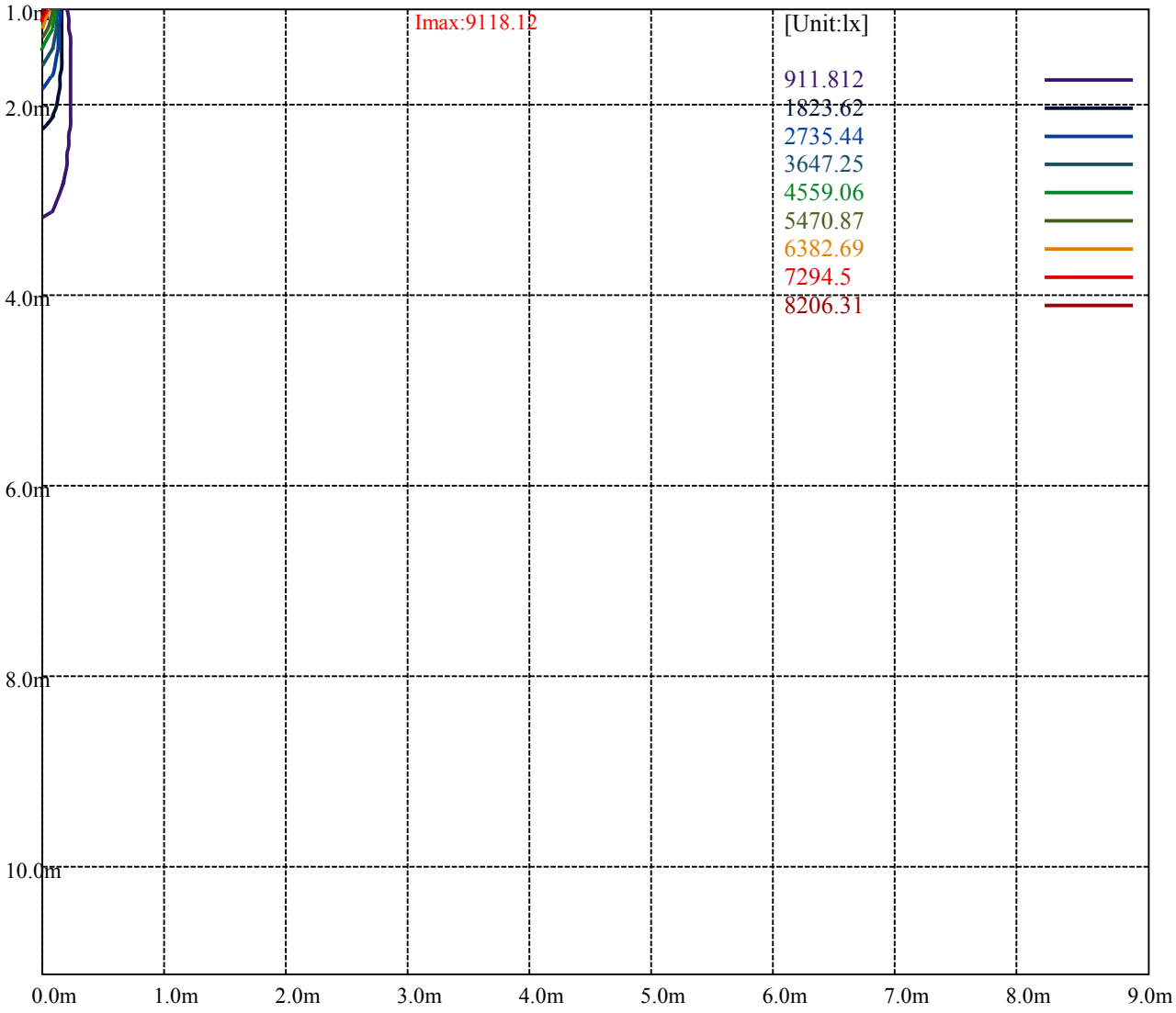
ISO illuminance diagram



(10%Emax) 227.9527
(20%Emax) 455.905
(30%Emax) 683.8575
(40%Emax) 911.81
(50%Emax) 1139.762
(60%Emax) 1367.718
(70%Emax) 1595.67
(80%Emax) 1823.623
(90%Emax) 2051.575

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2018/10/30
Humidity(%): 65.0%
Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/10/30
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

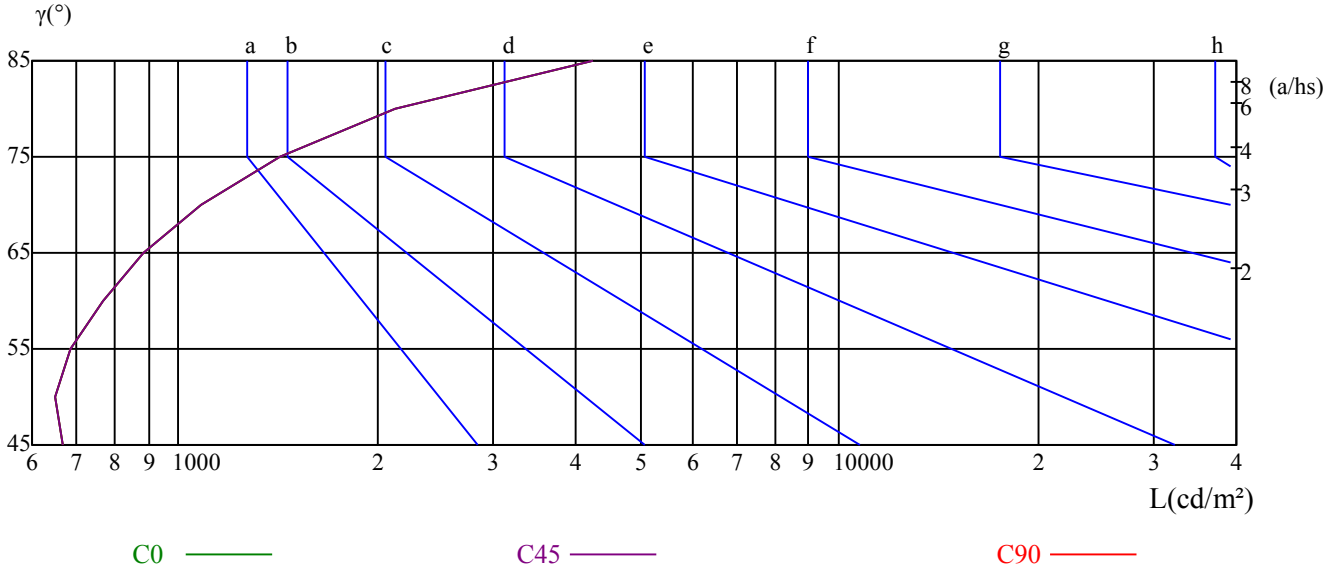
γ	45	50	55	60	65	70	75	80	85
C0	667	650	688	768	887	1083	1426	2126	4235
C45	667	650	688	768	887	1083	1426	2126	4235
C90	667	650	688	768	887	1083	1426	2126	4235

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
887	887	887	1426	1426	1426	4235	4235	4235

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

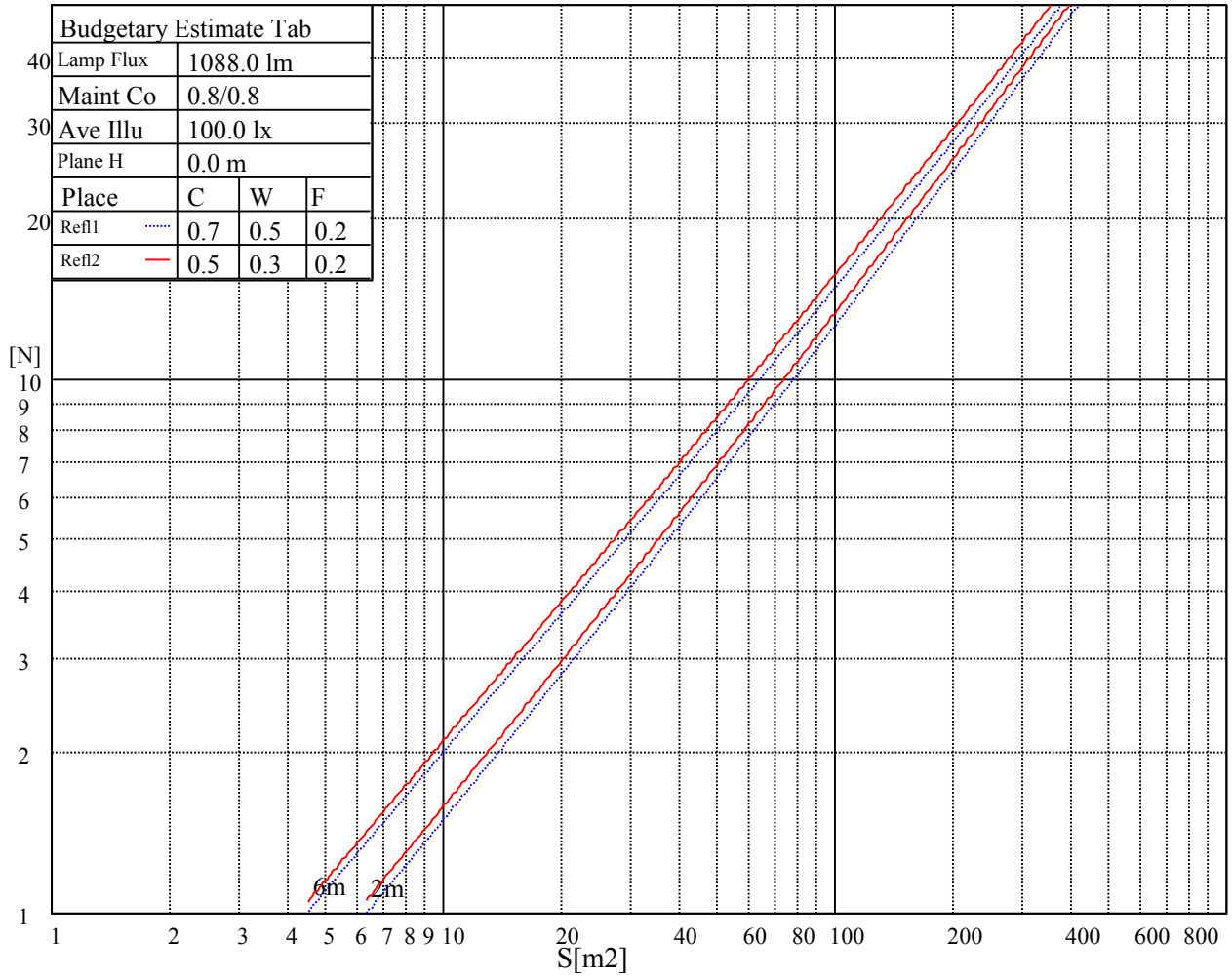
Luminance Limitting Curve



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	-0.67	0.23	-0.31	0.54	0.86	-0.63	0.27	-0.26	0.58	0.90
	3H	2.65	3.45	3.03	3.78	4.15	2.66	3.45	3.04	3.79	4.16
	4H	4.47	5.21	4.88	5.56	5.95	4.46	5.20	4.87	5.55	5.95
	6H	6.52	7.19	6.94	7.57	7.97	6.49	7.17	6.91	7.54	7.94
	8H	7.64	8.27	8.08	8.66	9.08	7.62	8.25	8.05	8.64	9.05
	12H	9.44	10.04	9.88	10.43	10.86	9.42	10.03	9.86	10.41	10.84
4H	2H	0.27	1.00	0.67	1.36	1.75	0.29	1.03	0.70	1.39	1.78
	3H	3.82	4.43	4.24	4.84	5.24	3.83	4.43	4.24	4.84	5.25
	4H	5.81	6.35	6.25	6.77	7.22	5.80	6.34	6.24	6.76	7.21
	6H	8.01	8.47	8.48	8.92	9.40	7.99	8.45	8.46	8.90	9.38
	8H	9.23	9.66	9.70	10.11	10.58	9.21	9.64	9.68	10.09	10.56
	12H	10.92	11.28	11.41	11.77	12.25	10.90	11.27	11.40	11.76	12.24
8H	4H	6.55	6.98	7.03	7.44	7.91	6.55	6.97	7.02	7.43	7.90
	6H	9.02	9.36	9.54	9.87	10.35	9.01	9.34	9.52	9.85	10.33
	8H	10.43	10.73	10.96	11.25	11.75	10.41	10.71	10.95	11.23	11.73
	12H	12.25	12.50	12.77	13.00	13.58	12.24	12.49	12.76	12.99	13.57
12H	4H	6.77	7.14	7.26	7.63	8.11	6.76	7.13	7.26	7.62	8.10
	6H	9.54	9.65	9.89	10.12	10.67	9.52	9.63	9.87	10.10	10.65
	8H	10.88	11.14	11.41	11.64	12.22	10.87	11.13	11.40	11.63	12.21
Variation with the observer position at spacings:											
S = 1.0H		5.6/-8.6					5.6/-8.6				
S = 1.5H		8.0/-6.4					8.0/-6.4				
S = 2.0H		9.4/-4.8					9.4/-4.8				
Standard tables:		BK2					BK2				
Uncorrected UGR		-4.0					-4.0				

Budgetary Estimate Table

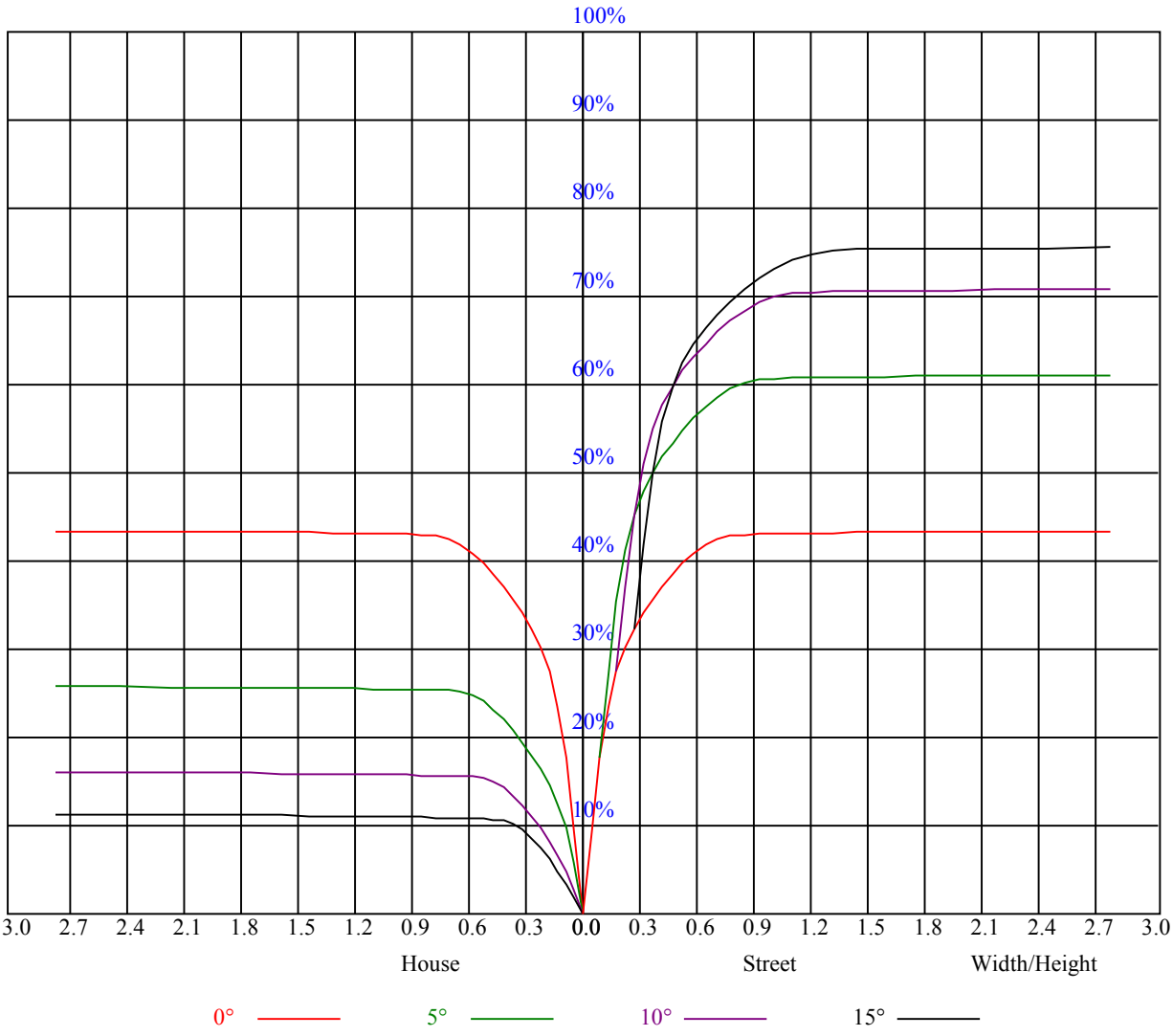


Equipment: GMS1980 Date: 2018/10/30 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.04	1.04	1.04	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.88
1	0.98	0.96	0.95	0.96	0.95	0.93	0.93	0.91	0.90	0.90	0.89	0.88	0.87	0.86	0.85	0.84
2	0.93	0.90	0.88	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.82	0.80
3	0.89	0.86	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.82	0.80	0.79	0.77
4	0.85	0.82	0.79	0.84	0.81	0.78	0.83	0.80	0.78	0.81	0.79	0.77	0.80	0.77	0.76	0.75
5	0.82	0.78	0.75	0.81	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.72
6	0.79	0.75	0.73	0.79	0.75	0.72	0.77	0.74	0.72	0.76	0.74	0.71	0.75	0.73	0.71	0.70
7	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	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	0.66	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	0.64	0.68	0.65	0.64	0.63

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2018/10/30	Operator: NT07
Temperature(°C): 25.0	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	9186.75	9131.63	8796.38	8274.94	7515.00	6310.13	5241.94	4188.94	3164.06
45.0	9111.94	8805.94	8099.44	7287.19	6310.13	4971.38	3909.94	3017.25	2239.88
90.0	9012.94	8631.00	7930.69	6953.06	5931.56	4713.19	3678.75	2726.44	2011.50
135.0	9160.88	9056.81	8564.06	7938.00	7218.56	5846.63	4749.75	3724.31	2786.63
180.0	9186.75	9046.69	8715.38	7987.50	7161.19	6154.31	4923.00	3758.63	2883.94
225.0	9111.94	9217.13	9110.25	8742.38	8198.44	7326.00	6351.19	5164.88	4014.56
270.0	9012.94	9178.88	9121.50	8844.19	8354.25	7438.50	6507.00	5471.44	4325.63
315.0	9160.88	9099.00	8836.88	8203.50	7467.75	6557.06	5397.75	4253.06	3347.44
360.0	9186.75	9131.63	8796.38	8274.94	7515.00	6310.13	5241.94	4188.94	3164.06

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2360.25	1827.00	1379.81	1095.75	869.63	712.69	615.94	540.00	487.13
45.0	1667.81	1288.13	989.44	808.88	668.25	573.75	514.69	469.69	437.63
90.0	1549.13	1093.44	923.74	744.64	635.51	550.29	492.47	455.74	428.96
135.0	2065.50	1586.25	1190.81	946.69	759.94	635.06	558.00	500.06	457.88
180.0	2127.94	1585.69	1113.02	974.53	801.79	666.11	574.65	515.03	471.32
225.0	3124.69	2319.19	1725.19	1103.63	1074.21	831.99	701.16	608.57	541.35
270.0	3314.81	2565.00	1906.88	1486.13	1148.06	908.44	756.00	636.19	553.50
315.0	2502.56	1864.69	1447.88	1114.43	905.57	738.34	624.21	553.73	501.41
360.0	2360.25	1827.00	1379.81	1095.75	869.63	712.69	615.94	540.00	487.13

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	452.81	431.44	407.81	395.44	387.00	378.56	372.94	369.56	363.94
45.0	416.81	401.06	388.13	380.81	374.63	369.00	363.94	360.00	355.50
90.0	406.01	393.58	384.13	375.53	369.84	365.57	360.73	356.79	352.46
135.0	431.44	412.31	394.88	385.88	378.56	371.81	366.75	362.25	357.19
180.0	432.84	412.09	397.18	384.02	375.86	370.07	364.11	359.33	355.22
225.0	482.23	449.33	425.14	404.10	391.89	382.61	375.13	368.89	364.39
270.0	501.19	463.50	430.31	410.63	397.69	385.88	378.56	372.94	367.31
315.0	455.96	430.26	411.47	394.48	385.20	377.83	371.53	366.30	361.69
360.0	452.81	431.44	407.81	395.44	387.00	378.56	372.94	369.56	363.94

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	359.44	355.50	349.88	346.50	342.56	335.81	319.50	293.63	263.76
45.0	351.00	345.94	341.44	336.94	327.38	302.63	288.00	231.98	181.80
90.0	347.57	343.29	338.85	333.62	320.29	291.71	254.70	216.17	176.96
135.0	353.25	348.75	343.69	339.19	334.69	320.06	295.31	284.06	211.39
180.0	350.78	346.56	341.44	336.77	332.83	323.16	299.42	268.48	231.30
225.0	359.55	355.33	350.72	345.66	341.78	336.94	331.31	314.83	288.39
270.0	362.81	359.44	353.81	349.88	344.25	340.31	336.38	324.56	296.44
315.0	357.30	352.63	348.58	344.03	339.86	335.08	320.18	295.93	263.81
360.0	359.44	355.50	349.88	346.50	342.56	335.81	319.50	293.63	263.76

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	209.59	168.64	116.66	76.95	44.61	20.08	10.69	8.78	5.01
45.0	144.45	102.26	59.12	32.91	15.36	9.62	7.14	4.73	4.61
90.0	128.76	90.56	57.32	25.65	12.21	9.06	6.58	4.61	4.50
135.0	170.78	131.40	84.94	53.16	28.13	12.71	9.28	6.64	4.78
180.0	180.84	141.58	103.22	60.41	33.08	16.09	10.01	7.54	4.78
225.0	245.03	205.65	164.19	112.05	74.36	43.99	20.31	11.25	8.94
270.0	285.19	223.59	176.79	129.99	89.78	51.81	24.53	12.54	9.39
315.0	215.94	174.99	133.99	84.09	50.96	26.33	12.38	9.39	5.40
360.0	209.59	168.64	116.66	76.95	44.61	20.08	10.69	8.78	5.01

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	4.67	4.50	4.39	4.33	4.22	4.16	4.11	4.05
45.0	4.50	4.28	4.22	4.16	4.11	4.11	4.05	4.05	3.99
90.0	4.39	4.22	4.22	4.16	4.11	4.05	3.99	3.94	3.94
135.0	4.67	4.50	4.33	4.28	4.22	4.16	4.16	4.11	4.05
180.0	4.67	4.56	4.39	4.28	4.22	4.16	4.11	4.05	4.05
225.0	4.84	4.73	4.56	4.39	4.22	4.22	4.11	4.05	4.11
270.0	5.01	4.78	4.61	4.44	4.33	4.28	4.22	4.16	4.05
315.0	4.84	4.67	4.44	4.33	4.28	4.22	4.16	4.11	4.05
360.0	4.84	4.67	4.50	4.39	4.33	4.22	4.16	4.11	4.05

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	3.99	3.99	3.94	3.88	3.88	3.83	3.88	3.83	3.83
45.0	3.94	3.94	3.88	3.88	3.88	3.88	3.83	3.77	3.77
90.0	3.88	3.88	3.88	3.83	3.83	3.83	3.83	3.77	3.71
135.0	3.99	3.94	3.94	3.94	3.88	3.83	3.88	3.88	3.83
180.0	3.94	3.94	3.88	3.88	3.83	3.83	3.83	3.83	3.77
225.0	3.94	3.94	3.88	3.88	3.88	3.88	3.83	3.77	3.77
270.0	3.99	3.99	3.99	3.94	3.94	3.88	3.83	3.83	3.83
315.0	3.99	3.94	3.94	3.88	3.88	3.83	3.83	3.83	3.83
360.0	3.99	3.99	3.94	3.88	3.88	3.83	3.88	3.83	3.83

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.83	3.77	3.77	3.77	3.77	3.77	3.77	3.71	3.71
45.0	3.83	3.77	3.77	3.77	3.77	3.71	3.77	3.71	3.71
90.0	3.77	3.71	3.77	3.71	3.71	3.71	3.71	3.71	3.71
135.0	3.83	3.77	3.77	3.77	3.77	3.71	3.71	3.71	3.77
180.0	3.71	3.71	3.71	3.77	3.77	3.71	3.71	3.71	3.71
225.0	3.77	3.71	3.71	3.71	3.71	3.71	3.66	3.66	3.66
270.0	3.77	3.83	3.77	3.77	3.77	3.71	3.71	3.71	3.71
315.0	3.77	3.77	3.71	3.77	3.77	3.71	3.66	3.71	3.71
360.0	3.83	3.77	3.77	3.77	3.77	3.77	3.77	3.71	3.71

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	3.71	3.71	3.77	3.71	3.71	3.71	3.71	3.71	3.71
45.0	3.71	3.71	3.71	3.66	3.71	3.66	3.71	3.71	3.71
90.0	3.66	3.66	3.66	3.71	3.71	3.71	3.66	3.66	3.71
135.0	3.71	3.71	3.71	3.71	3.66	3.66	3.71	3.66	3.71
180.0	3.71	3.71	3.66	3.66	3.66	3.71	3.66	3.66	3.66
225.0	3.71	3.71	3.71	3.66	3.66	3.66	3.66	3.71	3.66
270.0	3.77	3.71	3.71	3.71	3.66	3.66	3.71	3.71	3.71
315.0	3.71	3.66	3.66	3.71	3.71	3.66	3.71	3.66	3.66
360.0	3.71	3.71	3.77	3.71	3.71	3.71	3.71	3.71	3.71

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.66	3.71	3.71	3.71	3.71	3.71	3.71	3.66	3.66
45.0	3.66	3.71	3.77	3.77	3.77	4.11	3.66	3.66	3.66
90.0	3.66	3.66	3.71	3.71	3.71	3.88	3.66	3.66	3.66
135.0	3.71	3.71	3.66	3.71	3.71	3.66	3.71	3.66	3.66
180.0	3.66	3.66	3.66	3.66	3.66	3.60	3.66	3.60	3.66
225.0	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.60
270.0	3.66	3.66	3.66	3.71	3.66	3.71	3.66	3.66	3.66
315.0	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.71	3.66
360.0	3.66	3.71	3.71	3.71	3.71	3.71	3.71	3.66	3.66

Intensity data(cd)

C/γ(°)	90.0
0.0	3.66
45.0	3.60
90.0	3.66
135.0	3.66
180.0	3.66
225.0	3.66
270.0	3.66
315.0	3.66
360.0	3.66