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Nata

LumCAT: 2-1570-A
Luminaire: 92.70.064.00+92.70.147.00

Report No: NT2017092510	Voltage(V): 35.5000
Test No: GC2017092510	Current(A): 0.3000
LampCAT: CITIZEN CLU028	Power (W): 10.6500
Lamp flux(lm): 1518.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 64	Width(mm): 64
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1243.72
Efficiency(%): 81.93%
Lumens(lm)/Power(W): 117.00
Central intensity(cd): 9739.477
Maximum intensity(cd): 9739.477
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=14.3
[C90/270]Total=14.3
Field angle(10%Imax): [C0/180]Total=33.0
[C90/270]Total=33.0
Beam angle of C0 plane : 14.27
Aveage BeamAngle(IEC 61341):14.27
Maximum s/h(1/2): C0_180=0.25 C90_270=0.25
Maximum s/h(1/4): C0_180=0.26 C90_270=0.26
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.08%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.784%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9739.477	2.330	2.33	.153%	.187%
1.0	9577.130	18.329	20.659	1.207%	1.661%
2.0	9162.073	35.064	55.724	2.310%	4.480%
3.0	8484.122	48.692	104.416	3.208%	8.395%
4.0	7682.845	58.770	163.186	3.872%	13.121%
5.0	6830.848	65.286	228.472	4.301%	18.370%
6.0	5918.081	67.837	296.309	4.469%	23.825%
7.0	4972.556	66.455	362.764	4.378%	29.168%
8.0	4203.143	64.148	426.912	4.226%	34.325%
9.0	3422.856	58.718	485.63	3.868%	39.047%
10.0	2728.251	51.952	537.583	3.422%	43.224%
11.0	2240.451	46.880	584.462	3.088%	46.993%
12.0	1846.660	42.103	626.566	2.774%	50.378%
13.0	1521.965	37.544	664.11	2.473%	53.397%
14.0	1324.657	35.142	699.253	2.315%	56.223%
15.0	1145.751	32.519	731.772	2.142%	58.837%
16.0	1030.023	31.134	762.906	2.051%	61.341%
17.0	916.090	29.371	792.277	1.935%	63.702%
18.0	816.060	27.654	819.931	1.822%	65.926%
19.0	727.811	25.984	845.915	1.712%	68.015%
20.0	652.288	24.465	870.38	1.612%	69.982%
21.0	589.097	23.151	893.531	1.525%	71.844%
22.0	534.267	21.948	915.479	1.446%	73.608%
23.0	486.850	20.861	936.339	1.374%	75.286%
24.0	443.527	19.783	956.122	1.303%	76.876%
25.0	403.178	18.685	974.807	1.231%	78.379%
26.0	370.653	17.818	992.625	1.174%	79.811%
27.0	340.531	16.953	1009.579	1.117%	81.174%
28.0	311.454	16.034	1025.613	1.056%	82.464%
29.0	286.995	15.258	1040.871	1.005%	83.690%
30.0	264.752	14.516	1055.387	.956%	84.858%
31.0	240.727	13.596	1068.984	.896%	85.951%
32.0	217.679	12.650	1081.633	.833%	86.968%
33.0	199.593	11.921	1093.554	.785%	87.926%
34.0	180.984	11.098	1104.652	.731%	88.819%
35.0	166.360	10.464	1115.116	.689%	89.660%
36.0	153.043	9.865	1124.981	.650%	90.453%
37.0	140.476	9.271	1134.252	.611%	91.199%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	129.830	8.765	1143.017	.577%	91.903%
39.0	116.348	8.029	1151.046	.529%	92.549%
40.0	104.834	7.390	1158.436	.487%	93.143%
41.0	95.922	6.901	1165.337	.455%	93.698%
42.0	87.024	6.386	1171.723	.421%	94.211%
43.0	77.974	5.832	1177.554	.384%	94.680%
44.0	69.956	5.329	1182.883	.351%	95.109%
45.0	62.124	4.817	1187.7	.317%	95.496%
46.0	54.905	4.331	1192.032	.285%	95.844%
47.0	48.629	3.900	1195.932	.257%	96.158%
48.0	43.646	3.557	1199.488	.234%	96.444%
49.0	38.381	3.177	1202.665	.209%	96.699%
50.0	34.025	2.858	1205.523	.188%	96.929%
51.0	30.267	2.579	1208.103	.170%	97.136%
52.0	25.684	2.219	1210.322	.146%	97.315%
53.0	20.116	1.762	1212.084	.116%	97.457%
54.0	14.824	1.315	1213.399	.087%	97.562%
55.0	11.314	1.016	1214.415	.067%	97.644%
56.0	9.621	0.875	1215.29	.058%	97.714%
57.0	8.582	0.789	1216.079	.052%	97.778%
58.0	8.341	0.776	1216.855	.051%	97.840%
59.0	8.203	0.771	1217.626	.051%	97.902%
60.0	8.093	0.769	1218.395	.051%	97.964%
61.0	8.038	0.771	1219.166	.051%	98.026%
62.0	7.990	0.774	1219.939	.051%	98.088%
63.0	7.983	0.780	1220.719	.051%	98.151%
64.0	7.983	0.787	1221.506	.052%	98.214%
65.0	7.997	0.795	1222.301	.052%	98.278%
66.0	8.031	0.805	1223.106	.053%	98.343%
67.0	8.086	0.816	1223.922	.054%	98.408%
68.0	8.155	0.829	1224.751	.055%	98.475%
69.0	8.258	0.845	1225.597	.056%	98.543%
70.0	8.382	0.864	1226.46	.057%	98.612%
71.0	8.472	0.878	1227.339	.058%	98.683%
72.0	8.596	0.896	1228.235	.059%	98.755%
73.0	8.788	0.922	1229.157	.061%	98.829%
74.0	8.905	0.939	1230.096	.062%	98.905%
75.0	8.919	0.945	1231.04	.062%	98.981%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.967	0.954	1231.994	.063%	99.057%
77.0	9.036	0.966	1232.96	.064%	99.135%
78.0	9.132	0.980	1233.94	.065%	99.214%
79.0	9.153	0.985	1234.925	.065%	99.293%
80.0	9.029	0.975	1235.9	.064%	99.371%
81.0	9.132	0.989	1236.889	.065%	99.451%
82.0	9.483	1.030	1237.919	.068%	99.534%
83.0	9.628	1.048	1238.967	.069%	99.618%
84.0	9.649	1.052	1240.019	.069%	99.703%
85.0	9.305	1.016	1241.036	.067%	99.784%
86.0	6.146	0.672	1241.708	.044%	99.838%
87.0	5.334	0.584	1242.292	.038%	99.885%
88.0	5.265	0.577	1242.869	.038%	99.932%
89.0	5.189	0.569	1243.438	.037%	99.978%
90.0	5.093	0.279	1243.717	.018%	100.000%

Zonal flux distribution table

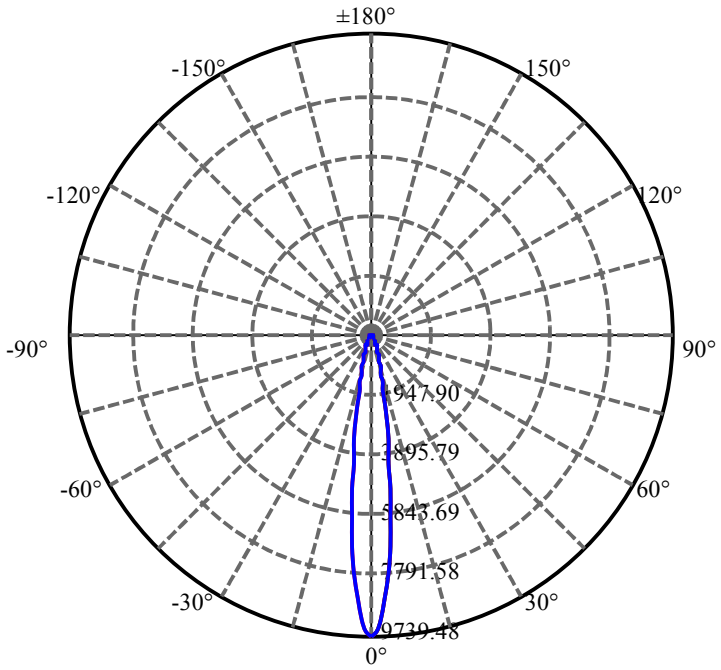
ZONAL LUMEN SUMMARY

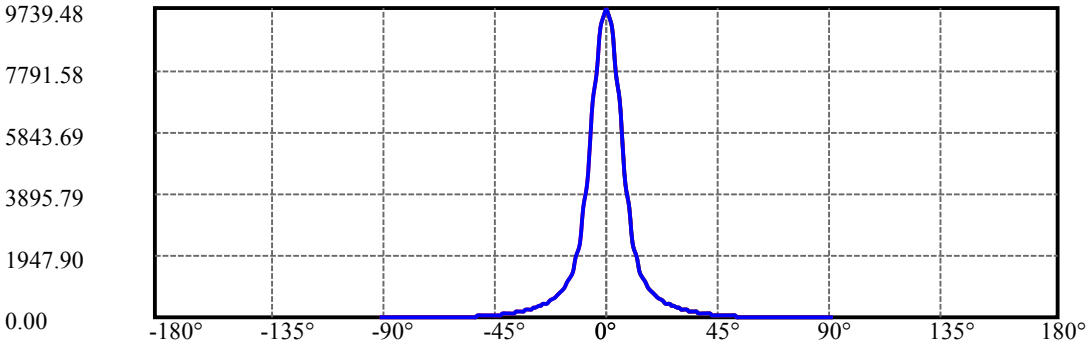
Zone	Lumens	%Lamp	%Fixt
0-30	1055.39	69.52%	84.86%
0-40	1158.44	76.31%	93.14%
0-60	1218.39	80.26%	97.96%
0-90	1243.44	81.91%	99.98%
0-120	1243.44	81.91%	99.98%
0-180	1243.72	81.93%	100.00%
60-90	25.81	1.70%	2.08%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.14	994.97	65.55%	80.00%

ZONAL LUMEN SUMMARY

0-10	537.58
10-20	332.80
20-30	185.01
30-40	103.05
40-50	47.09
50-60	12.87
60-70	8.07
70-80	9.44
80-90	7.54
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):

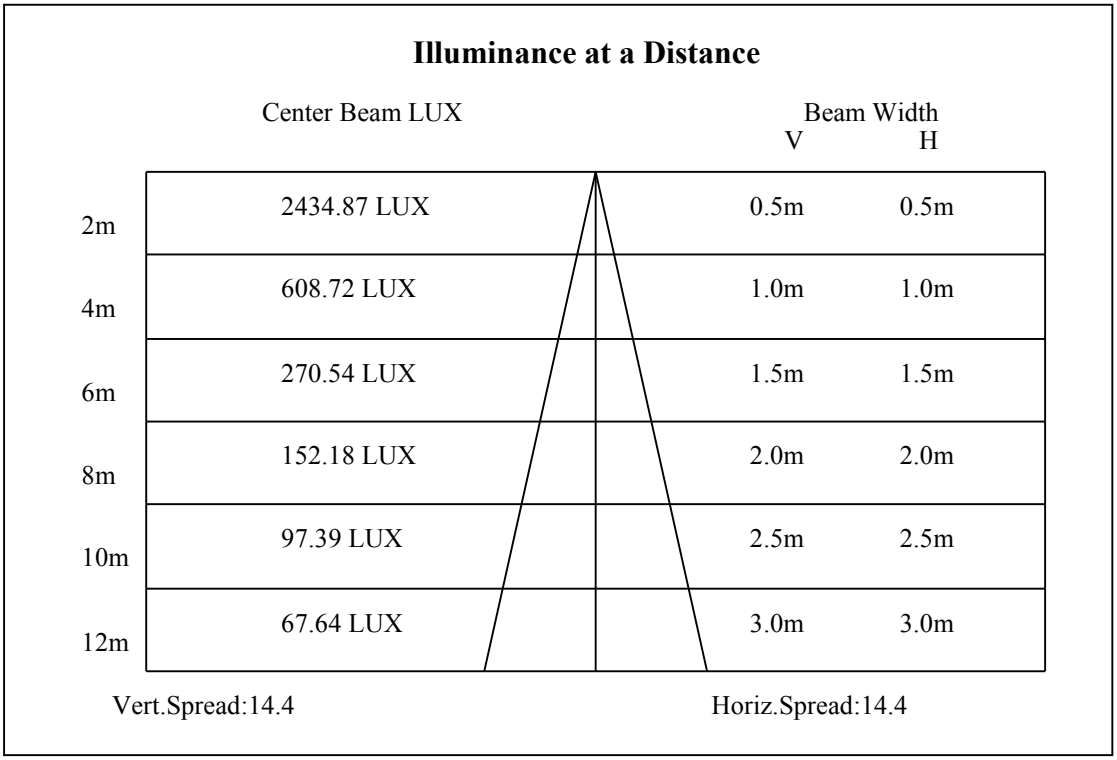
C0/C180:

C90/C270:

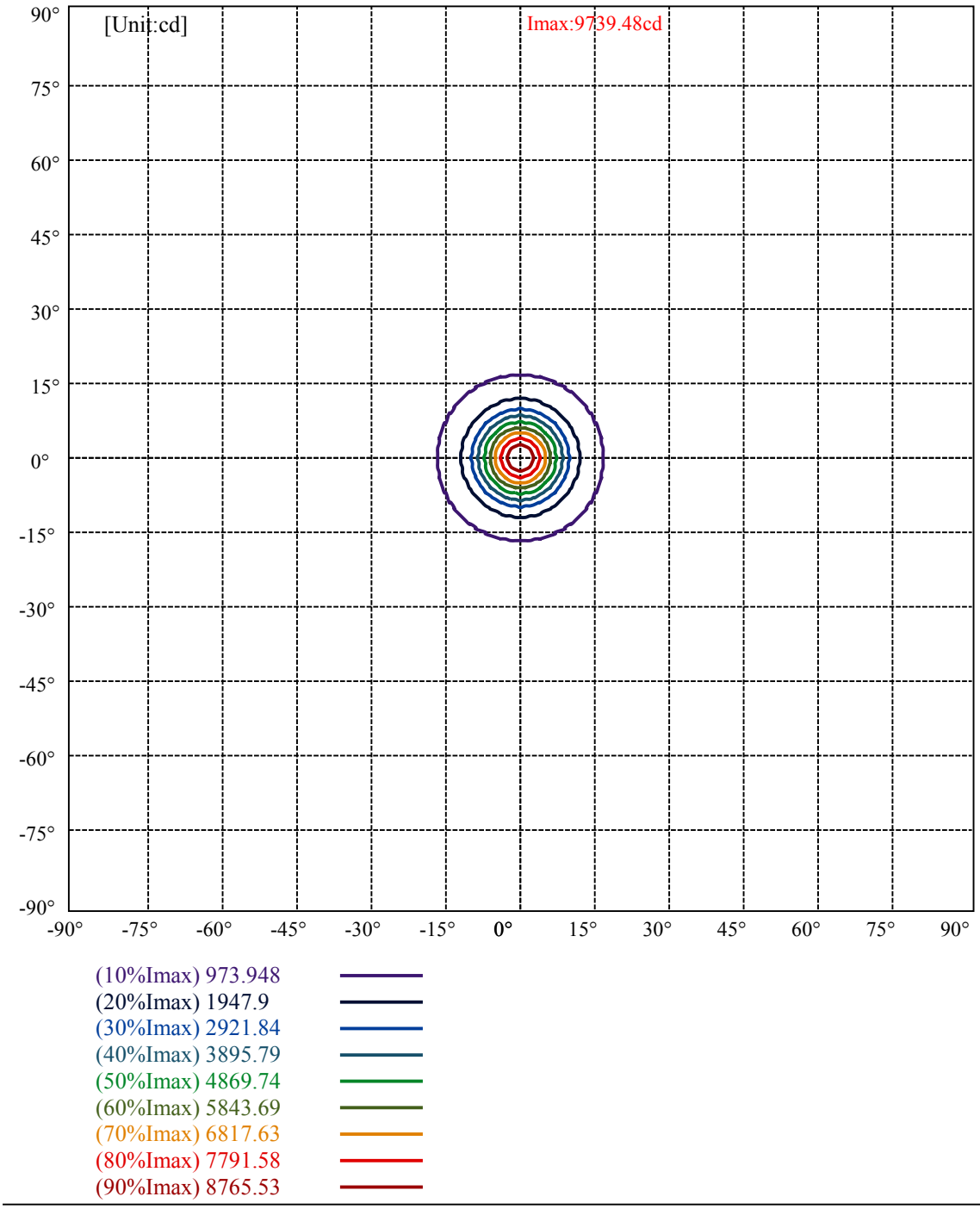
Field angle(10%Imax):C0/180Left:16.5 Right:16.5
:C90/270Left:16.5 Right:16.5

Beam Angle(50%Imax):C0/180Left:7.1 Right:7.1
:C90/270Left:7.1 Right:7.1

Lux distance Curve



ISO-Intensity(V-H)

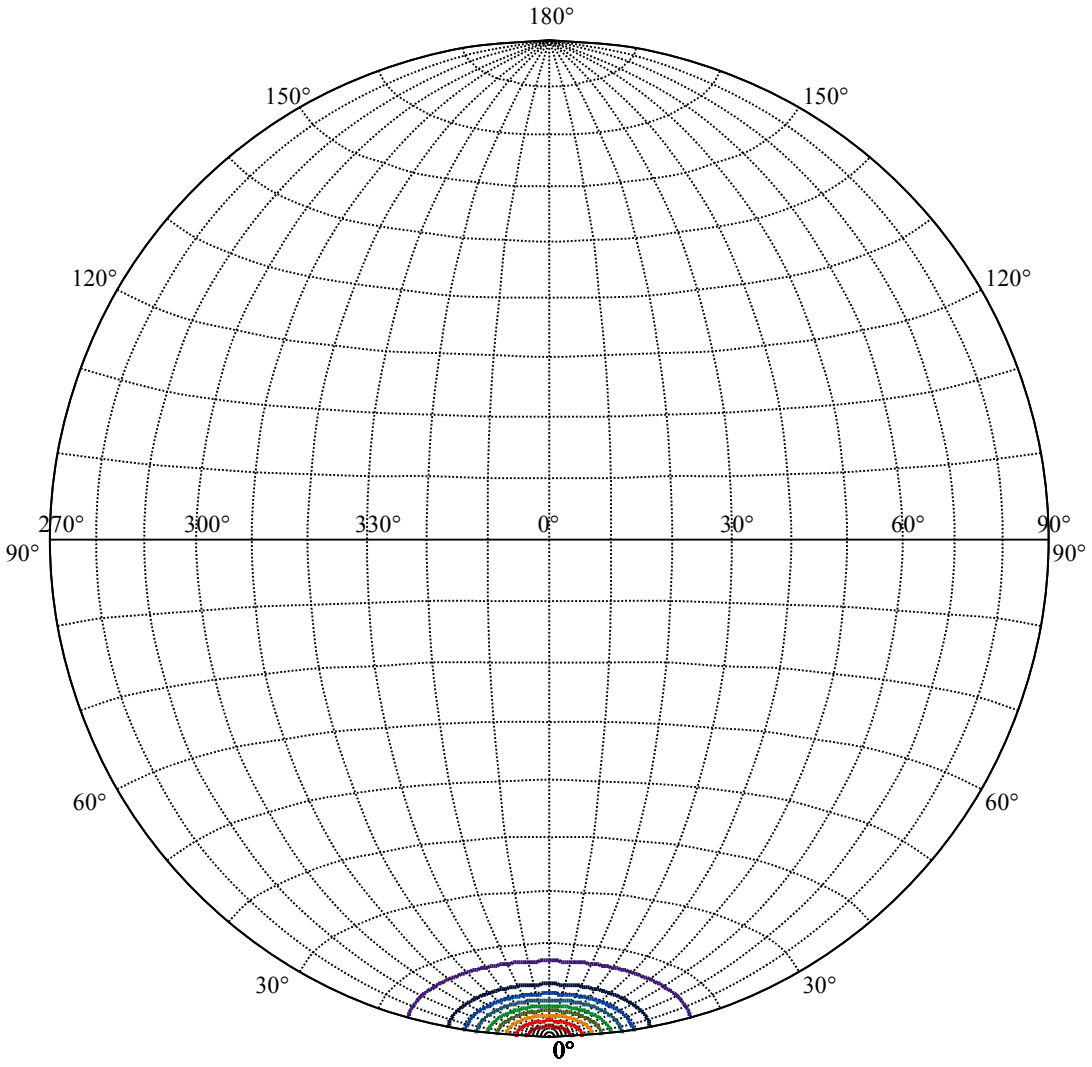


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/9/25
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:9739.48

(10%Imax) 973.948
(20%Imax) 1947.9
(30%Imax) 2921.84
(40%Imax) 3895.79
(50%Imax) 4869.74
(60%Imax) 5843.69
(70%Imax) 6817.63
(80%Imax) 7791.58
(90%Imax) 8765.53

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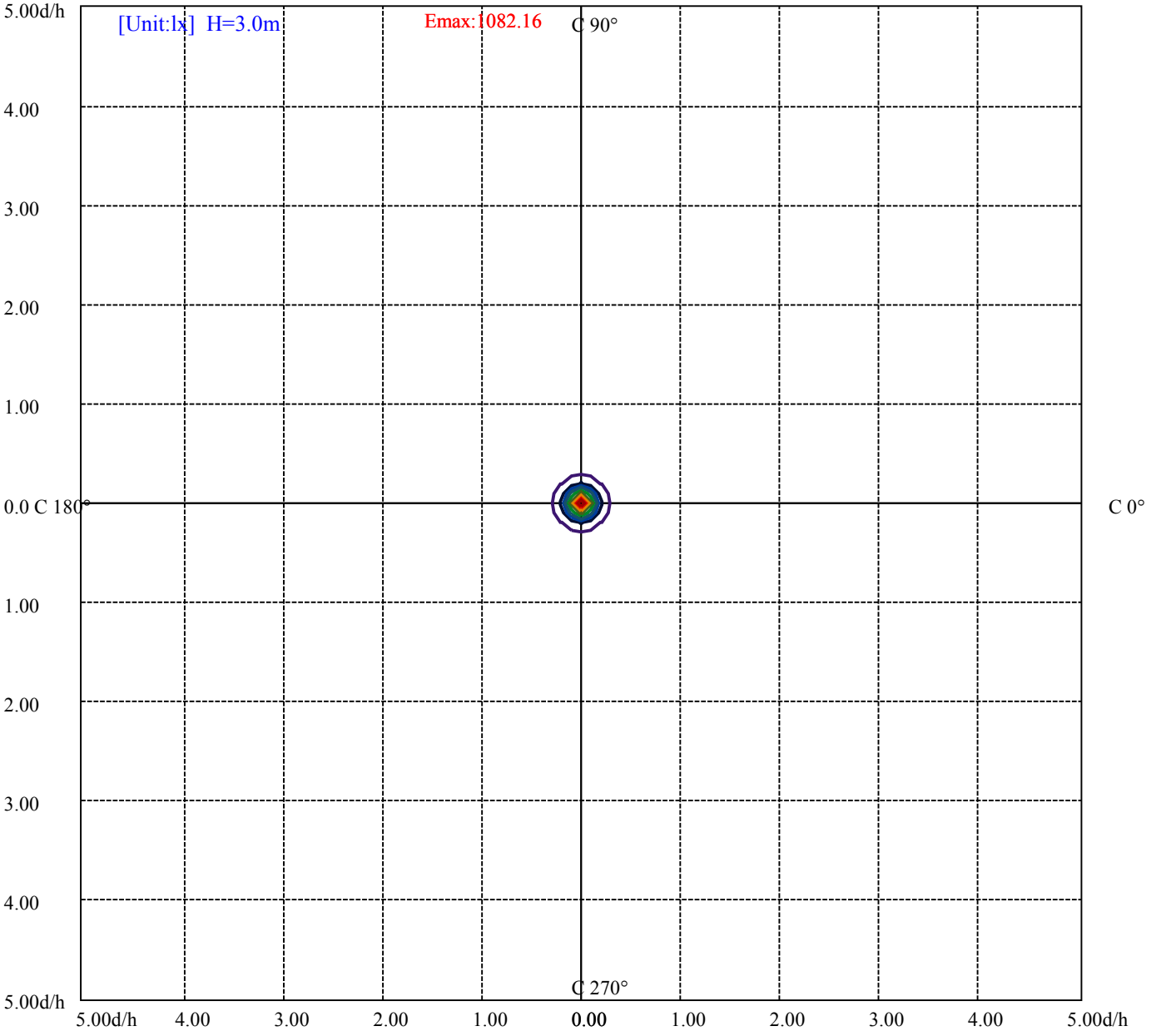
ISO illuminance diagram

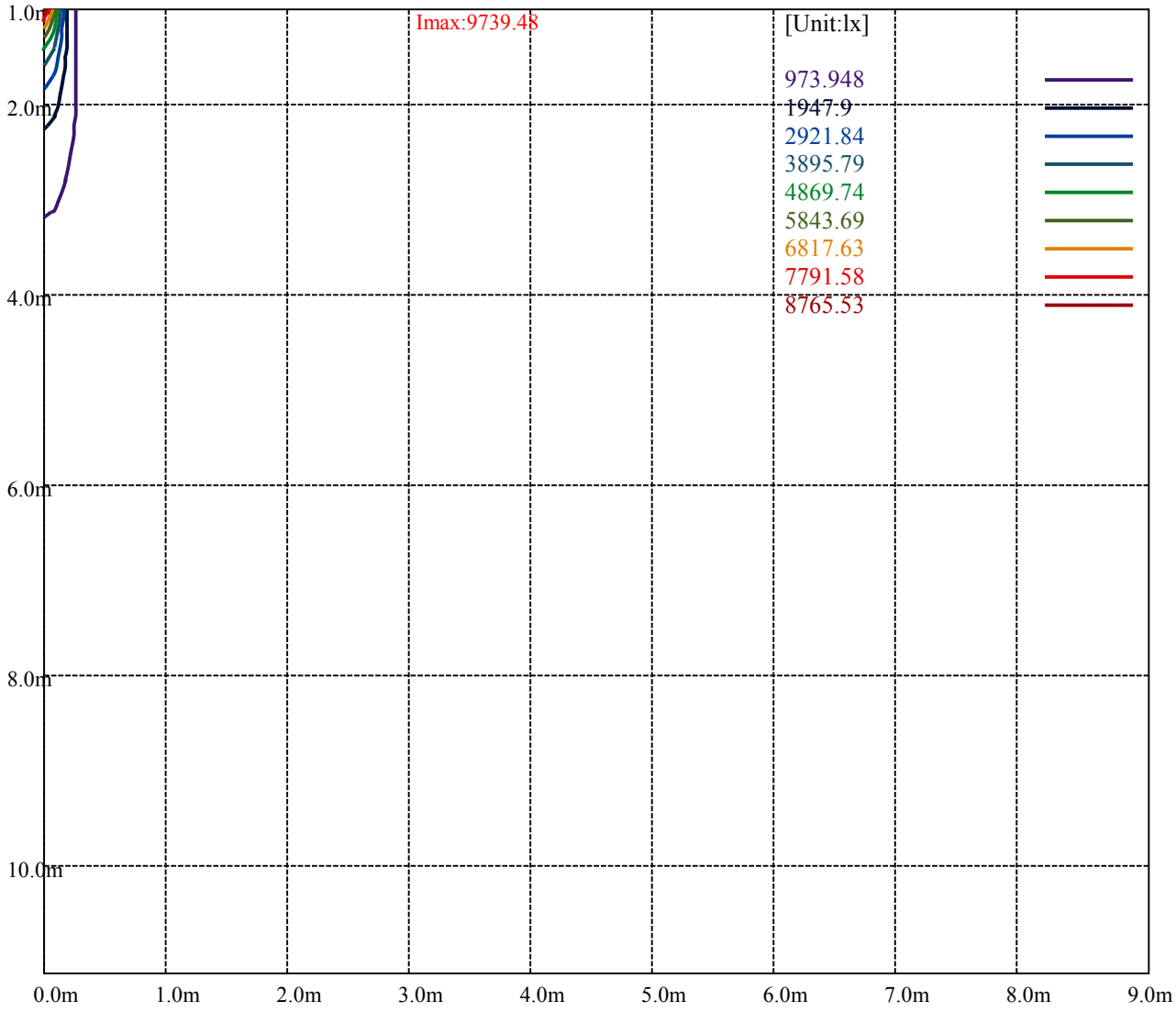


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/9/25
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/9/25
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

Nata 2-1570-A

Luminance Limitting Curve(no luminous side)

Luminance Table

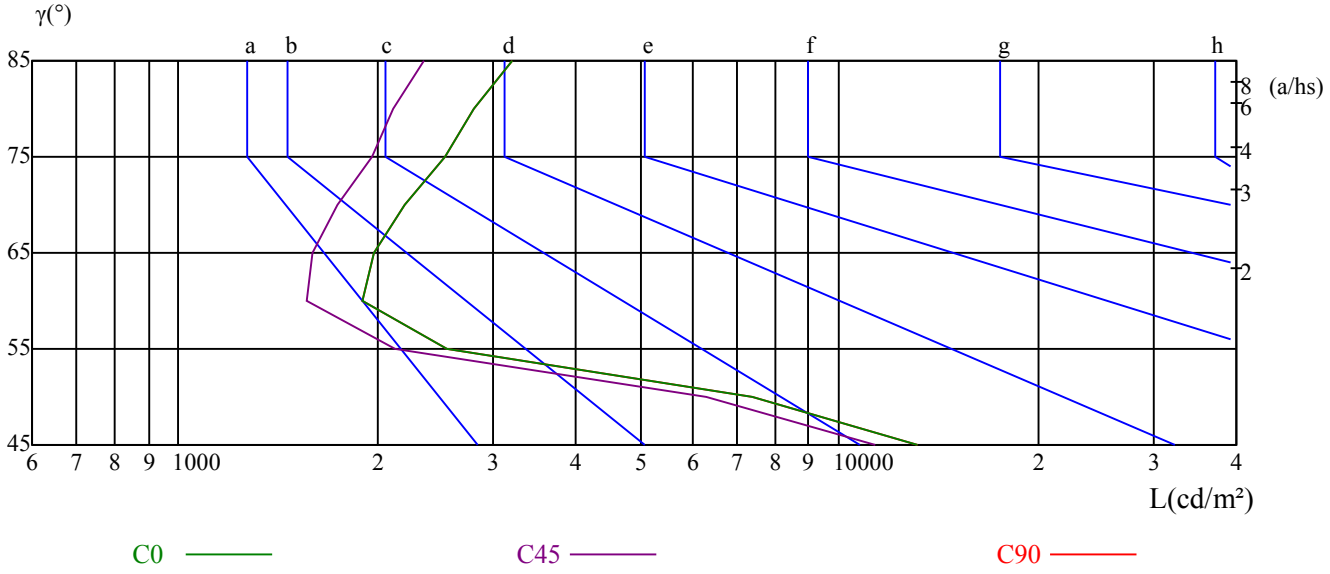
γ	45	50	55	60	65	70	75	80	85
C0	13200	7406	2545	1898	1974	2202	2525	2793	3200
C45	11386	6294	2129	1561	1595	1745	1957	2111	2347
C90	13200	7406	2545	1898	1974	2202	2525	2793	3200

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4620	4620	4620	8413	8413	8413	26064	26064	26064

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

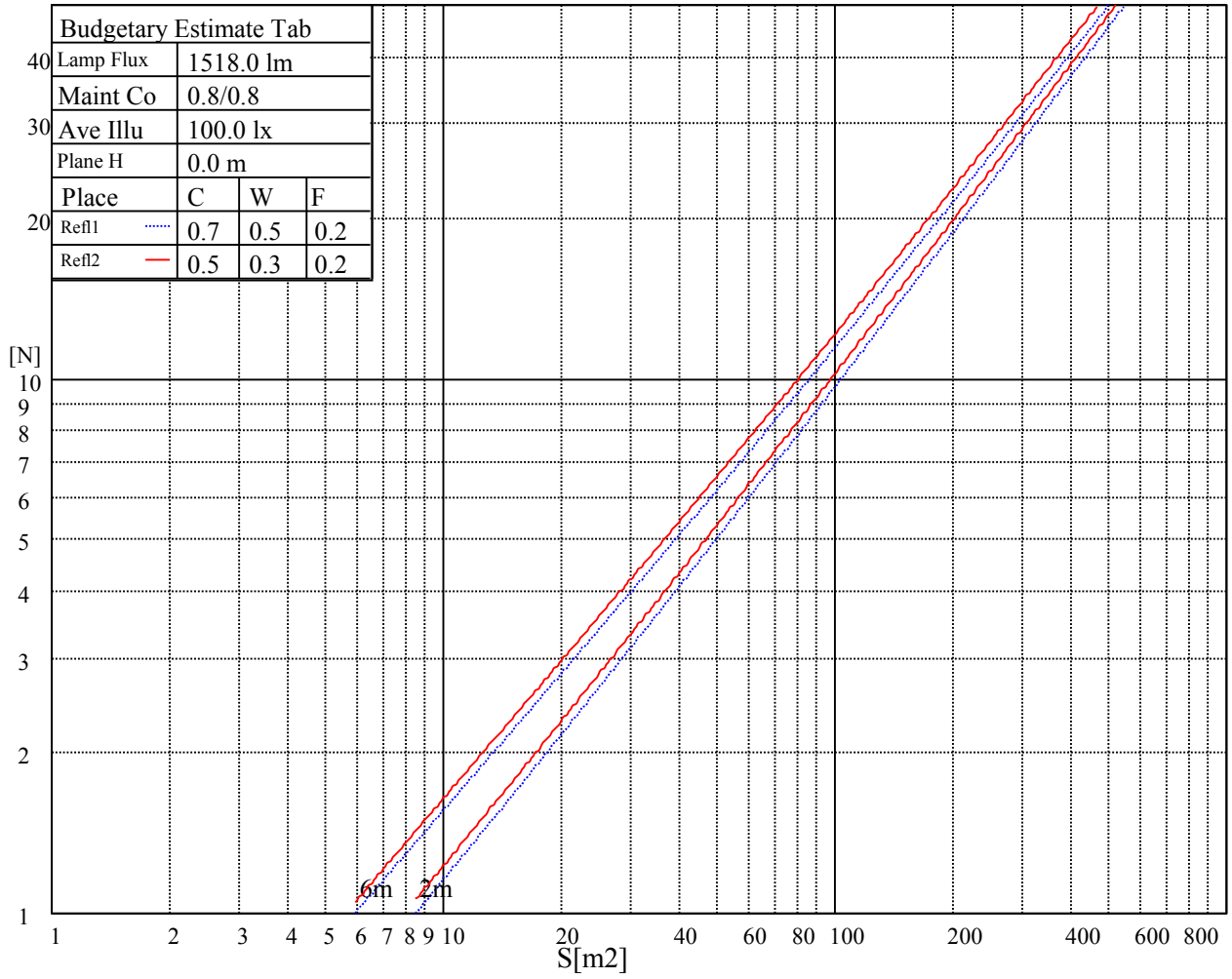


UGR Glare

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	4.76	5.73	5.12	6.04	6.36	4.76	5.73	5.12	6.04	6.36
	3H	6.78	7.64	7.17	7.98	8.34	6.75	7.61	7.13	7.94	8.31
	4H	8.14	8.94	8.55	9.29	9.68	8.09	8.89	8.50	9.24	9.63
	6H	9.52	10.25	9.94	10.63	11.02	9.60	10.33	10.02	10.71	11.10
	8H	10.25	10.93	10.68	11.32	11.73	10.36	11.04	10.80	11.44	11.85
	12H	11.43	12.09	11.87	12.47	12.90	11.50	12.15	11.93	12.54	12.97
4H	2H	5.08	5.88	5.49	6.23	6.62	5.09	5.88	5.49	6.24	6.63
	3H	7.51	8.16	7.93	8.57	8.98	7.48	8.13	7.90	8.54	8.95
	4H	9.09	9.67	9.53	10.10	10.55	9.05	9.63	9.48	10.05	10.50
	6H	10.41	10.91	10.88	11.36	11.84	10.48	10.98	10.95	11.43	11.90
	8H	11.31	11.77	11.78	12.22	12.70	11.40	11.87	11.88	12.32	12.80
	12H	12.52	12.93	13.02	13.42	13.90	12.58	12.98	13.07	13.47	13.95
8H	4H	9.57	10.03	10.04	10.49	10.96	9.53	10.00	10.01	10.45	10.93
	6H	11.18	11.55	11.69	12.06	12.54	11.25	11.62	11.76	12.12	12.61
	8H	12.22	12.56	12.76	13.08	13.58	12.32	12.65	12.85	13.17	13.67
	12H	13.54	13.83	14.06	14.32	14.90	13.59	13.87	14.11	14.37	14.95
12H	4H	9.68	10.08	10.17	10.57	11.05	9.64	10.05	10.13	10.54	11.01
	6H	11.65	11.72	11.92	12.19	12.74	11.71	11.78	11.98	12.25	12.80
	8H	12.53	12.81	13.05	13.31	13.89	12.61	12.90	13.13	13.39	13.97

Variation with the observer position at spacings:		
S = 1.0H	2.7/-4.0	2.7/-4.0
S = 1.5H	4.2/-3.1	4.2/-3.1
S = 2.0H	5.2/-2.6	5.2/-2.6
Standard tables:	BK3	BK3
Uncorrected UGR	-3.0	-3.0

Budgetary Estimate Table

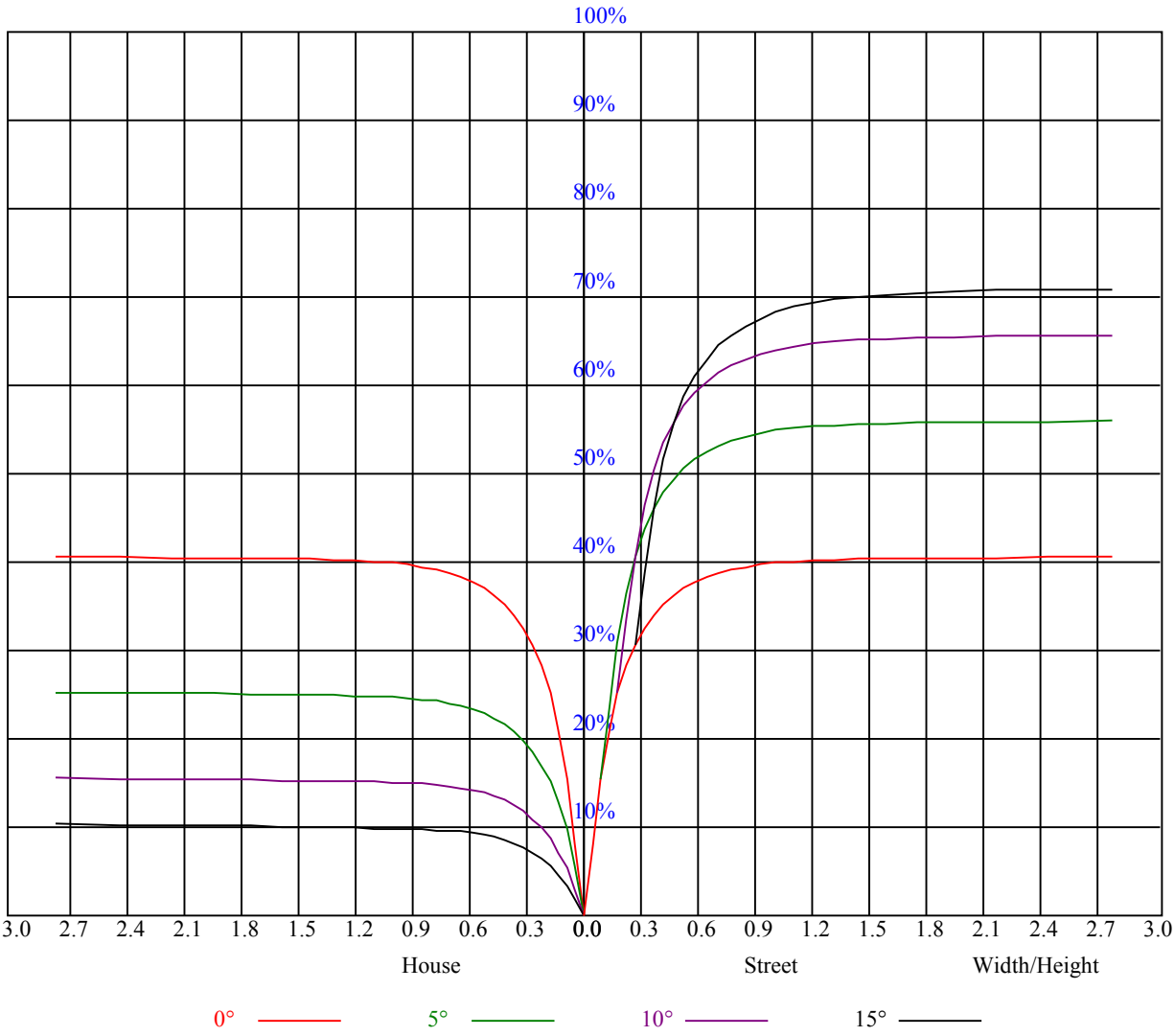


Equipment: GMS1980 Date: 2017/9/25 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.42

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	0.98	0.98	0.98	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.84	0.84	0.84	0.82
1	0.92	0.90	0.88	0.90	0.88	0.87	0.87	0.85	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.78
2	0.87	0.84	0.82	0.86	0.83	0.81	0.83	0.81	0.79	0.81	0.79	0.78	0.78	0.77	0.76	0.75
3	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.76	0.74	0.73	0.72
4	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.74	0.72	0.70	0.69
5	0.76	0.73	0.70	0.76	0.72	0.70	0.74	0.71	0.69	0.73	0.70	0.68	0.72	0.70	0.68	0.67
6	0.73	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.66	0.65
7	0.71	0.67	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.64	0.63
8	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.64	0.62	0.61
9	0.67	0.63	0.61	0.66	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.65	0.62	0.60	0.59
10	0.65	0.61	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.63	0.61	0.59	0.58

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2017/9/25	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	9753.79	9624.41	9267.09	8524.38	7786.08	6962.43	5896.54	5085.56	4325.23
45.0	9747.74	9523.66	8996.77	8366.92	7543.83	6611.72	5799.09	4883.50	4123.17
90.0	9713.60	9400.33	8902.07	8152.75	7302.13	6467.48	5621.26	4606.57	3864.96
135.0	9741.68	9683.87	9305.63	8686.80	7978.22	7071.99	6132.18	5299.18	4498.11
180.0	9753.79	9519.25	9081.55	8451.16	7502.54	6755.97	5786.43	4722.19	4025.72
225.0	9749.94	9673.96	9336.46	8623.48	7896.19	7071.99	6213.67	5142.82	4318.62
270.0	9713.60	9720.21	9417.40	8813.43	8089.99	7182.11	6214.77	5365.80	4540.50
315.0	9741.68	9471.35	8989.61	8254.06	7363.79	6523.08	5680.72	4674.84	3928.82
360.0	9753.79	9624.41	9267.09	8524.38	7786.08	6962.43	5896.54	5085.56	4325.23

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3466.90	2857.43	2339.35	1878.52	1553.69	1344.48	1171.05	1043.87	919.99
45.0	3354.59	2698.31	2213.27	1883.48	1507.99	1317.50	1183.16	1010.28	901.27
90.0	3192.17	2489.10	2055.81	1728.77	1463.40	1269.60	1097.60	998.45	895.11
135.0	3593.53	2957.63	2415.32	1931.38	1583.42	1370.35	1196.93	1057.08	946.97
180.0	3307.79	2497.36	2093.24	1737.58	1398.98	1253.08	1084.17	996.30	867.14
225.0	3571.51	2784.20	2274.93	1896.69	1583.42	1365.95	1090.94	1059.06	945.15
270.0	3617.76	2978.00	2439.55	1974.87	1635.18	1421.56	1243.72	1097.27	980.00
315.0	3278.61	2563.98	2092.14	1741.98	1449.64	1254.74	1098.43	977.86	873.08
360.0	3466.90	2857.43	2339.35	1878.52	1553.69	1344.48	1171.05	1043.87	919.99

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	810.43	728.40	646.91	580.29	527.99	483.40	432.74	396.41	363.37
45.0	815.94	710.78	630.95	583.60	519.73	472.93	435.50	390.35	357.87
90.0	788.79	701.36	636.12	574.29	521.44	479.38	441.22	399.71	370.58
135.0	837.96	752.62	670.04	605.62	554.97	502.66	459.17	423.93	390.90
180.0	779.54	703.73	630.01	567.96	520.23	473.26	430.32	395.80	362.22
225.0	839.33	751.52	681.87	614.43	555.35	509.55	465.94	418.54	386.33
270.0	879.80	783.45	699.22	628.19	572.04	515.88	465.23	425.59	388.70
315.0	776.68	690.63	623.18	558.38	502.39	457.74	418.10	375.10	345.26
360.0	810.43	728.40	646.91	580.29	527.99	483.40	432.74	396.41	363.37

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	330.89	302.81	280.24	255.57	234.43	215.93	196.72	181.08	164.95
45.0	330.89	300.06	278.59	253.37	224.69	204.04	186.86	168.31	155.42
90.0	343.50	312.67	290.81	269.39	243.73	224.13	205.64	185.49	173.76
135.0	356.21	330.34	305.56	281.34	264.55	233.49	215.49	194.84	179.21
180.0	335.02	306.83	280.07	258.54	237.57	213.07	195.01	178.55	161.15
225.0	357.04	326.10	300.22	277.59	251.50	225.29	205.09	184.27	170.01
270.0	352.91	320.43	295.65	278.59	244.89	224.35	206.13	183.89	169.13
315.0	317.79	292.40	264.82	243.62	224.46	201.12	185.82	171.45	157.24
360.0	330.89	302.81	280.24	255.57	234.43	215.93	196.72	181.08	164.95

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	150.80	139.24	129.44	115.62	105.32	97.28	86.99	79.67	72.01
45.0	143.53	132.36	120.79	109.78	99.60	91.61	82.14	72.84	65.41
90.0	160.60	145.35	136.21	118.81	105.87	97.61	88.75	77.13	70.03
135.0	165.61	150.69	137.81	124.04	110.83	100.59	90.35	80.71	72.01
180.0	148.65	137.31	126.96	112.65	102.29	92.44	84.40	75.65	67.22
225.0	154.98	142.38	132.36	118.15	105.54	96.57	88.75	79.89	71.41
270.0	156.36	142.93	131.69	121.89	108.35	99.60	90.35	81.87	74.11
315.0	143.81	133.57	123.38	109.84	100.86	91.67	84.46	76.03	67.44
360.0	150.80	139.24	129.44	115.62	105.32	97.28	86.99	79.67	72.01

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	64.14	56.98	51.26	46.03	40.85	36.39	32.15	28.02	22.30
45.0	57.70	50.76	45.42	40.47	35.02	31.33	27.03	22.52	17.01
90.0	62.43	55.17	48.39	43.05	37.55	32.54	28.41	23.29	17.78
135.0	62.87	54.78	48.45	43.82	37.11	32.98	29.62	25.16	20.26
180.0	59.90	53.18	47.29	43.11	38.87	34.63	30.94	26.48	20.48
225.0	63.81	56.21	49.61	44.49	39.70	35.29	31.60	26.98	21.91
270.0	65.85	58.30	52.36	47.07	41.29	37.22	33.86	28.74	23.12
315.0	60.29	53.85	46.25	41.13	36.67	31.82	28.52	24.28	18.06
360.0	64.14	56.98	51.26	46.03	40.85	36.39	32.15	28.02	22.30

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	15.69	11.78	10.02	8.26	8.04	7.87	7.76	7.71	7.71
45.0	13.27	10.30	8.86	8.31	8.04	7.87	7.65	7.60	7.54
90.0	13.05	10.19	8.81	8.37	8.09	7.98	7.87	7.82	7.76
135.0	15.91	11.89	10.46	9.36	9.19	9.03	8.86	8.70	8.53
180.0	14.76	11.45	9.91	8.70	8.48	8.31	8.26	8.26	8.20
225.0	15.69	11.89	9.91	8.59	8.31	8.15	8.09	8.09	8.09
270.0	17.34	13.10	10.30	8.86	8.42	8.26	8.15	8.09	8.04
315.0	12.88	9.91	8.70	8.20	8.15	8.15	8.09	8.04	8.04
360.0	15.69	11.78	10.02	8.26	8.04	7.87	7.76	7.71	7.71

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.71	7.76	7.76	7.82	7.87	7.93	8.04	8.09	8.20
45.0	7.49	7.43	7.43	7.43	7.49	7.54	7.60	7.82	7.93
90.0	7.87	7.87	7.87	7.93	7.98	8.15	8.48	8.64	8.48
135.0	8.42	8.37	8.37	8.37	8.37	8.42	8.48	8.53	8.64
180.0	8.26	8.31	8.31	8.37	8.42	8.48	8.53	8.64	8.75
225.0	8.09	8.09	8.09	8.15	8.20	8.26	8.31	8.48	8.59
270.0	8.04	8.04	8.09	8.15	8.26	8.31	8.37	8.48	8.64
315.0	7.98	7.98	8.04	8.04	8.09	8.15	8.26	8.37	8.53
360.0	7.71	7.76	7.76	7.82	7.87	7.93	8.04	8.09	8.20

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.31	8.42	8.48	8.53	8.59	8.64	8.70	8.70	8.64
45.0	8.04	8.31	8.53	8.64	8.81	8.97	8.70	8.09	7.71
90.0	8.42	8.64	9.08	9.03	9.08	9.08	8.97	8.48	8.15
135.0	8.81	8.97	9.14	8.97	8.64	8.48	8.70	9.03	9.30
180.0	8.92	9.08	9.19	9.36	9.47	9.69	9.91	10.19	10.08
225.0	8.81	9.30	9.36	9.58	9.86	10.02	10.52	10.90	10.41
270.0	8.86	9.03	9.08	9.08	9.25	9.30	9.36	9.41	9.19
315.0	8.59	8.53	8.37	8.15	8.04	8.09	8.20	8.42	8.75
360.0	8.31	8.42	8.48	8.53	8.59	8.64	8.70	8.70	8.64

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.75	8.97	9.14	9.19	9.03	5.34	5.29	5.23	5.18
45.0	7.87	8.15	8.75	9.69	9.91	5.34	5.23	5.18	5.07
90.0	8.09	8.26	8.75	9.30	9.58	5.40	5.29	5.23	5.12
135.0	9.52	9.74	9.91	10.08	9.97	8.31	5.45	5.34	5.23
180.0	10.02	10.02	10.08	9.97	9.86	5.51	5.29	5.23	5.12
225.0	10.85	12.55	11.73	9.91	9.80	8.20	5.45	5.34	5.23
270.0	8.97	8.97	9.30	9.63	9.91	5.67	5.34	5.29	5.29
315.0	8.97	9.19	9.36	9.41	6.39	5.40	5.34	5.29	5.29
360.0	8.75	8.97	9.14	9.19	9.03	5.34	5.29	5.23	5.18

Intensity data(cd)

C/γ(°)	90.0
0.0	5.07
45.0	5.07
90.0	5.07
135.0	5.12
180.0	5.07
225.0	5.12
270.0	5.18
315.0	5.07
360.0	5.07