NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NATA

Client:
LumCAT: 1-1382-L
Luminaire: 92.70.427.00
Report No: 2023718-B016
Ballast type: AC

Test No: 2023718-C016	Voltage(V): 35.530
LampCAT: CITIZEN CLU028	Current(A): 0.282
Lamp flux(lm): 1223.2	Power (W): 10.019
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1116.27, Efficiency(%): 91.26% , Luminous Efficacy(lm/W): 111.42
Central intensity(cd): 4247.088, Maximum intensity(cd): 4247.088
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.0
[C90/270]Total=24.0
Field angle(10%Imax): [C0/180]Total=55.6
[C90/270]Total=55.6
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.42 C90_270=0.42
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.26%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.163%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4247.088	0.000	0	0.00%	0.00%
1.0	4222.317	4.052	4.052	0.33%	0.36%
2.0	4144.891	12.009	16.062	0.98%	1.44%
3.0	4024.912	19.539	35.601	1.60%	3.19%
4.0	3880.716	26.463	62.064	2.16%	5.56%
5.0	3703.862	32.628	94.692	2.67%	8.48%
6.0	3498.223	37.849	132.541	3.09%	11.87%
7.0	3284.627	42.101	174.642	3.44%	15.65%
8.0	3052.488	45.354	219.996	3.71%	19.71%
9.0	2825.608	47.639	267.635	3.89%	23.98%
10.0	2592.361	49.031	316.665	4.01%	28.37%
11.0	2369.010	49.574	366.24	4.05%	32.81%
12.0	2128.429	49.163	415.403	4.02%	37.21%
13.0	1910.474	47.932	463.335	3.92%	41.51%
14.0	1704.351	46.269	509.604	3.78%	45.65%
15.0	1480.266	43.720	553.324	3.57%	49.57%
16.0	1290.106	40.594	593.918	3.32%	53.21%
17.0	1155.493	38.085	632.002	3.11%	56.62%
18.0	1053.926	36.429	668.431	2.98%	59.88%
19.0	944.194	34.763	703.194	2.84%	62.99%
20.0	851.158	32.860	736.054	2.69%	65.94%
21.0	772.017	31.168	767.222	2.55%	68.73%
22.0	701.316	29.607	796.829	2.42%	71.38%
23.0	645.644	28.263	825.092	2.31%	73.92%
24.0	600.102	27.236	852.329	2.23%	76.35%
25.0	555.515	26.276	878.605	2.15%	78.71%
26.0	512.042	25.200	903.805	2.06%	80.97%
27.0	463.669	23.871	927.676	1.95%	83.10%
28.0	414.149	22.224	949.9	1.82%	85.10%
29.0	362.601	20.322	970.222	1.66%	86.92%
30.0	311.184	18.192	988.414	1.49%	88.55%
31.0	267.503	16.104	1004.518	1.32%	89.99%
32.0	228.417	14.208	1018.726	1.16%	91.26%
33.0	180.633	12.051	1030.776	0.99%	92.34%
34.0	125.923	9.277	1040.054	0.76%	93.17%
35.0	92.185	6.774	1046.827	0.55%	93.78%
36.0	71.282	5.205	1052.032	0.43%	94.25%
37.0	58.038	4.218	1056.25	0.34%	94.62%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	50.379	3.619	1059.869	0.30%	94.95%
39.0	44.421	3.236	1063.104	0.26%	95.24%
40.0	40.166	2.950	1066.054	0.24%	95.50%
41.0	36.513	2.730	1068.785	0.22%	95.75%
42.0	33.198	2.533	1071.318	0.21%	95.97%
43.0	30.285	2.352	1073.669	0.19%	96.18%
44.0	27.525	2.182	1075.851	0.18%	96.38%
45.0	24.729	2.008	1077.859	0.16%	96.56%
46.0	22.190	1.835	1079.694	0.15%	96.72%
47.0	19.900	1.674	1081.368	0.14%	96.87%
48.0	18.045	1.534	1082.902	0.13%	97.01%
49.0	16.364	1.413	1084.315	0.12%	97.14%
50.0	15.084	1.311	1085.626	0.11%	97.25%
51.0	13.949	1.228	1086.855	0.10%	97.36%
52.0	12.987	1.156	1088.011	0.09%	97.47%
53.0	12.205	1.096	1089.107	0.09%	97.57%
54.0	11.500	1.045	1090.151	0.09%	97.66%
55.0	10.953	1.002	1091.154	0.08%	97.75%
56.0	10.476	0.968	1092.122	0.08%	97.84%
57.0	10.109	0.941	1093.063	0.08%	97.92%
58.0	9.756	0.919	1093.982	0.08%	98.00%
59.0	9.465	0.899	1094.88	0.07%	98.08%
60.0	9.230	0.883	1095.764	0.07%	98.16%
61.0	9.023	0.871	1096.635	0.07%	98.24%
62.0	8.808	0.859	1097.494	0.07%	98.32%
63.0	8.614	0.847	1098.341	0.07%	98.39%
64.0	8.441	0.837	1099.178	0.07%	98.47%
65.0	8.262	0.827	1100.005	0.07%	98.54%
66.0	8.082	0.815	1100.82	0.07%	98.62%
67.0	7.902	0.804	1101.624	0.07%	98.69%
68.0	7.701	0.790	1102.414	0.06%	98.76%
69.0	7.493	0.775	1103.189	0.06%	98.83%
70.0	7.300	0.760	1103.949	0.06%	98.90%
71.0	7.099	0.744	1104.693	0.06%	98.96%
72.0	6.885	0.727	1105.42	0.06%	99.03%
73.0	6.691	0.710	1106.13	0.06%	99.09%
74.0	6.511	0.694	1106.824	0.06%	99.15%
75.0	6.345	0.679	1107.504	0.06%	99.21%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.165	0.664	1108.168	0.05%	99.27%
77.0	6.027	0.650	1108.818	0.05%	99.33%
78.0	5.888	0.638	1109.456	0.05%	99.39%
79.0	5.764	0.626	1110.082	0.05%	99.45%
80.0	5.660	0.616	1110.697	0.05%	99.50%
81.0	5.549	0.606	1111.304	0.05%	99.55%
82.0	5.438	0.596	1111.899	0.05%	99.61%
83.0	5.342	0.586	1112.485	0.05%	99.66%
84.0	5.245	0.577	1113.062	0.05%	99.71%
85.0	5.120	0.566	1113.628	0.05%	99.76%
86.0	4.968	0.551	1114.179	0.05%	99.81%
87.0	4.857	0.538	1114.717	0.04%	99.86%
88.0	4.767	0.527	1115.244	0.04%	99.91%
89.0	4.677	0.518	1115.762	0.04%	99.95%
90.0	4.615	0.509	1116.271	0.04%	100.00%

Zonal flux distribution table

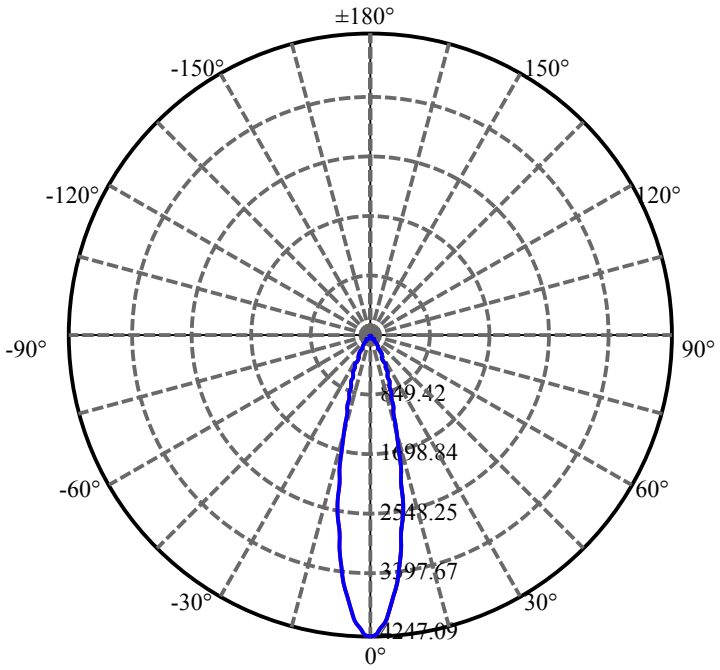
ZONAL LUMEN SUMMARY

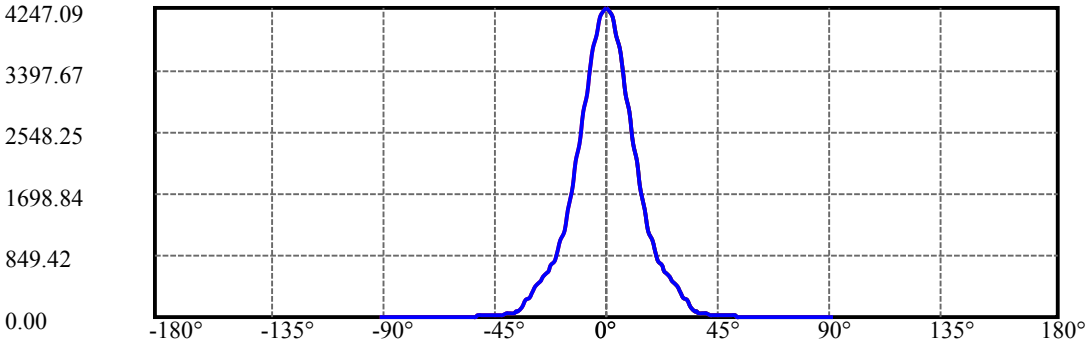
Zone	Lumens	%Lamp	%Fixt
0-30	988.41	80.81%	88.55%
0-40	1066.05	87.15%	95.50%
0-60	1095.76	89.58%	98.16%
0-90	1115.76	91.22%	99.95%
0-120	1115.76	91.22%	99.95%
0-180	1116.27	91.26%	100.00%
60-90	20.00	1.63%	1.79%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.57	893.02	73.01%	80.00%

ZONAL LUMEN SUMMARY

0-10	316.67
10-20	419.39
20-30	252.36
30-40	77.64
40-50	19.57
50-60	10.14
60-70	8.19
70-80	6.75
80-90	5.06
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):

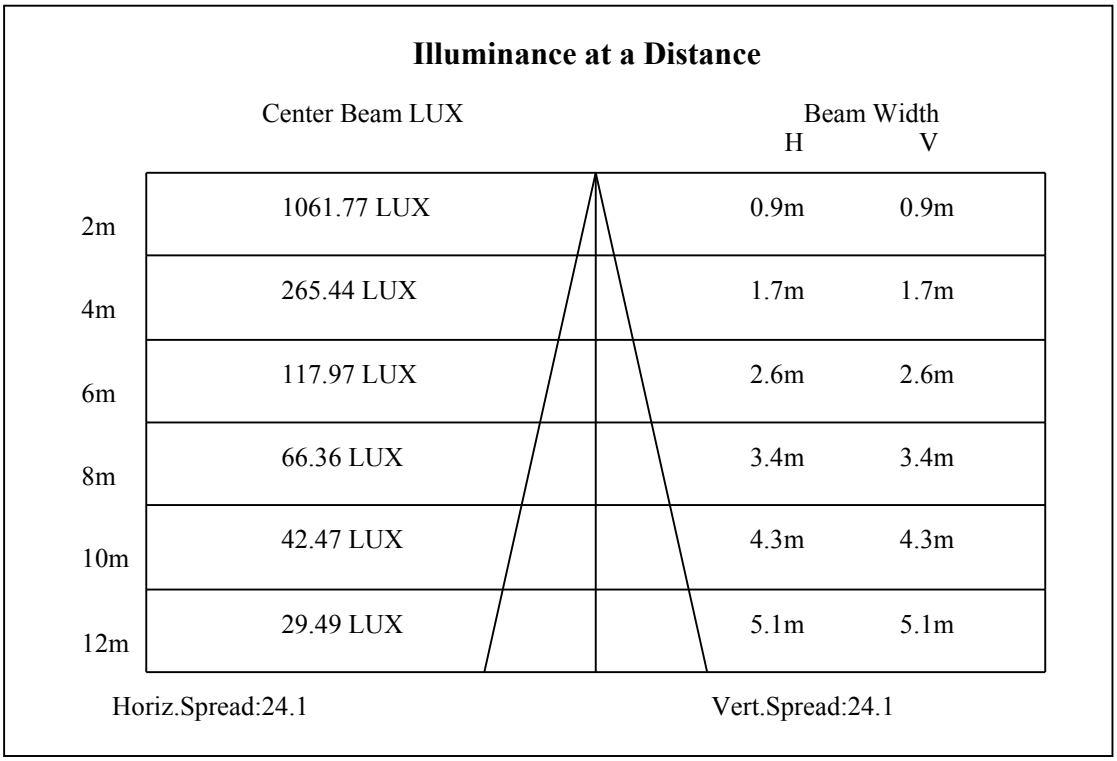
C0/C180:

C90/C270:

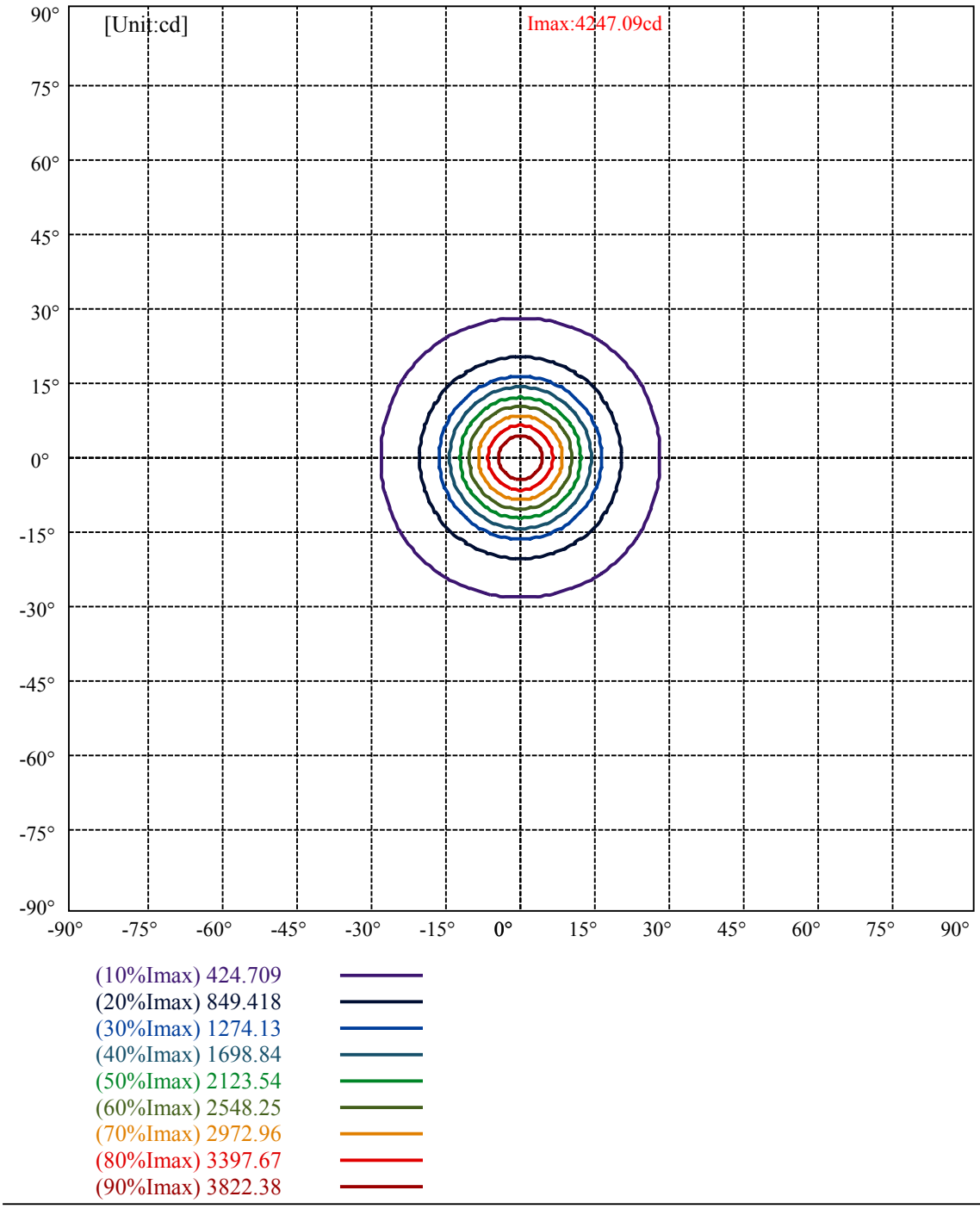
Field angle(10%Imax):C0/180Left:27.8 Right:27.8
:C90/270Left:27.8 Right:27.8

Beam Angle(50%Imax):C0/180Left:12.0 Right:12.0
:C90/270Left:12.0 Right:12.0

Lux distance Curve



ISO-Intensity(V-H)

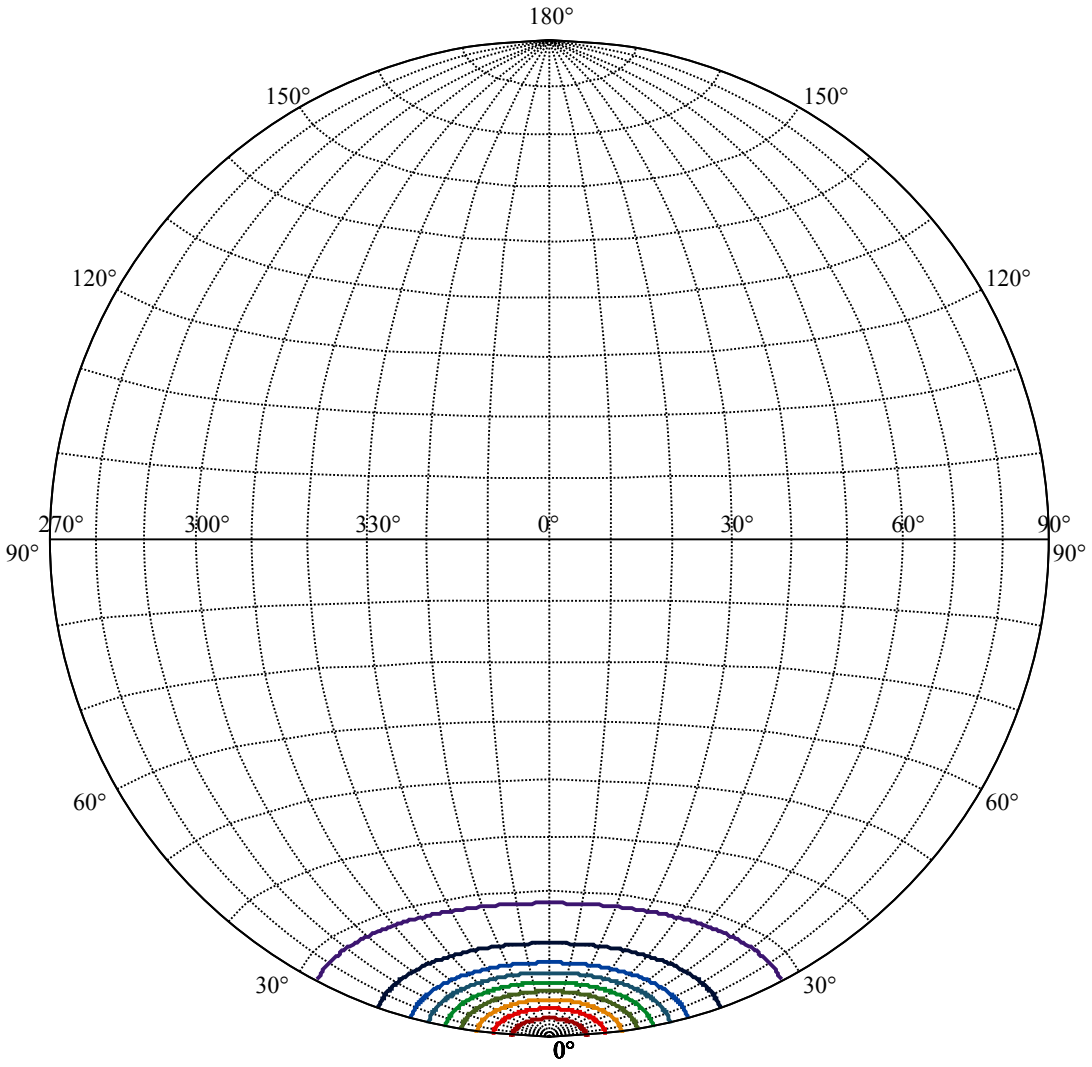


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/7/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



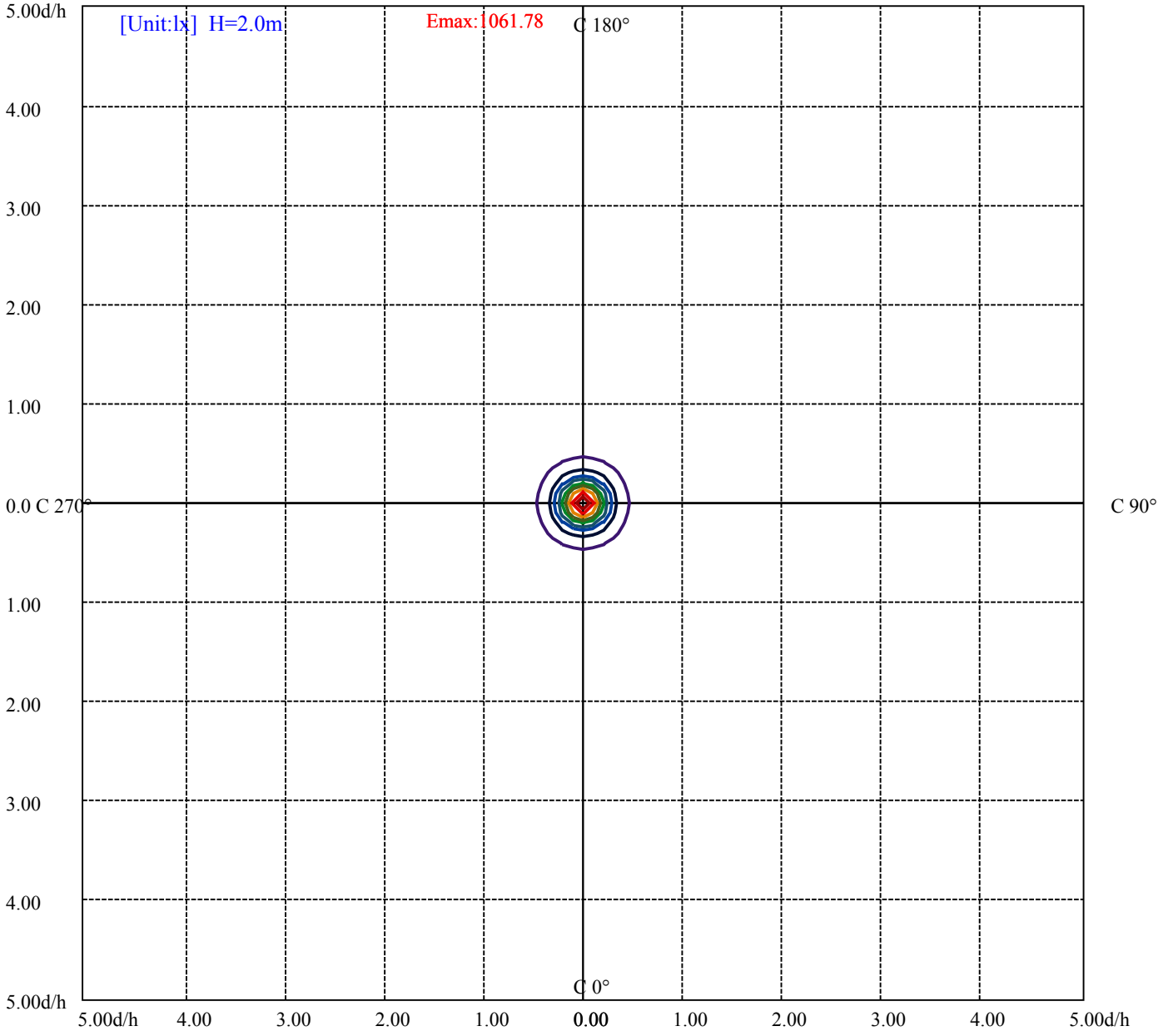
House [Unit:cd] Road

Imax:4247.09

(10%Imax) 424.709
(20%Imax) 849.418
(30%Imax) 1274.13
(40%Imax) 1698.84
(50%Imax) 2123.54
(60%Imax) 2548.25
(70%Imax) 2972.96
(80%Imax) 3397.67
(90%Imax) 3822.38

Equipment: GMS1980 Date: 2023/7/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

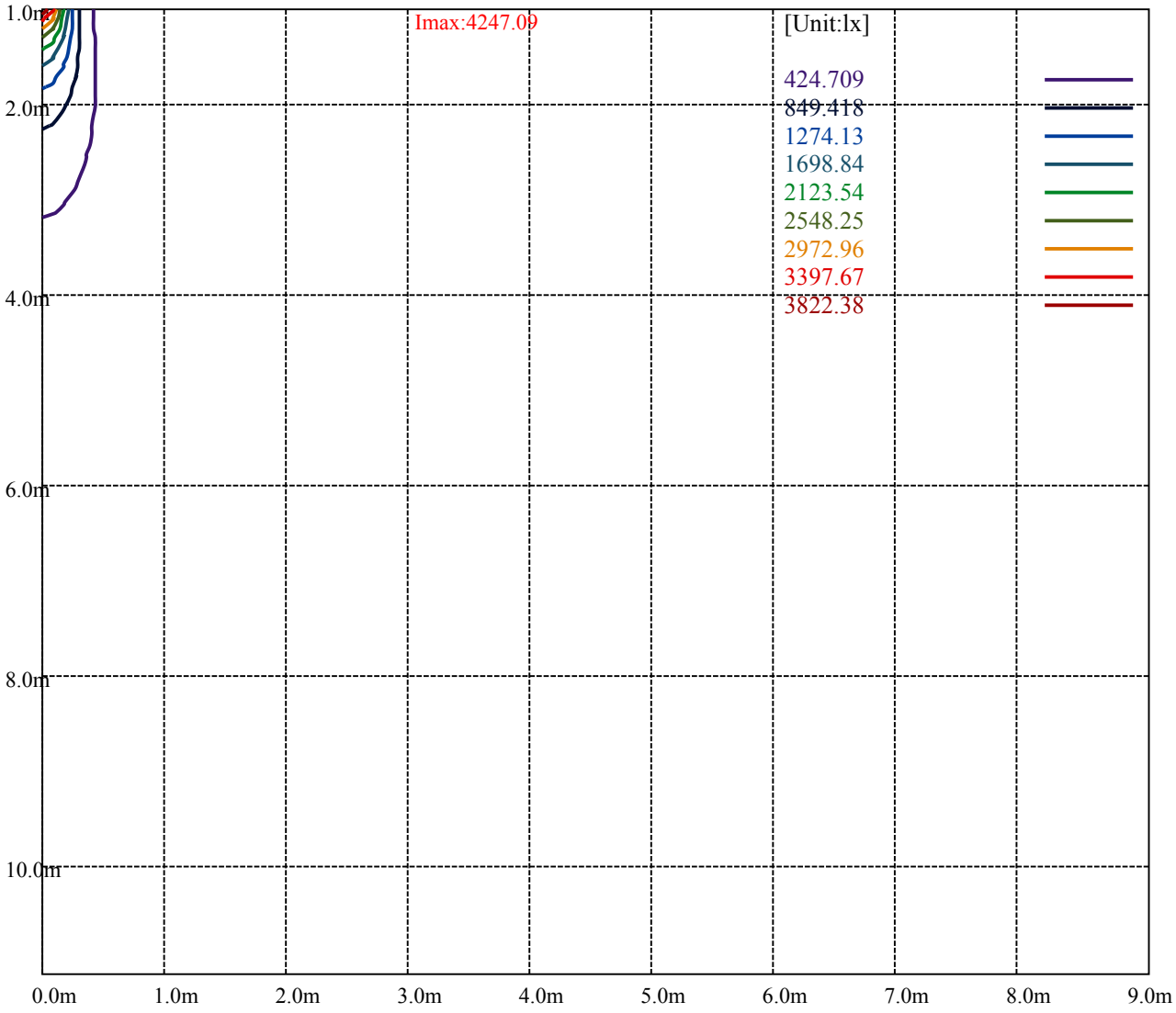
ISO illuminance diagram



(10%Emax) 106.177
(20%Emax) 212.3542
(30%Emax) 318.5325
(40%Emax) 424.7075
(50%Emax) 530.885
(60%Emax) 637.0625
(70%Emax) 743.24
(80%Emax) 849.4175
(90%Emax) 955.595

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2023/7/18
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/7/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

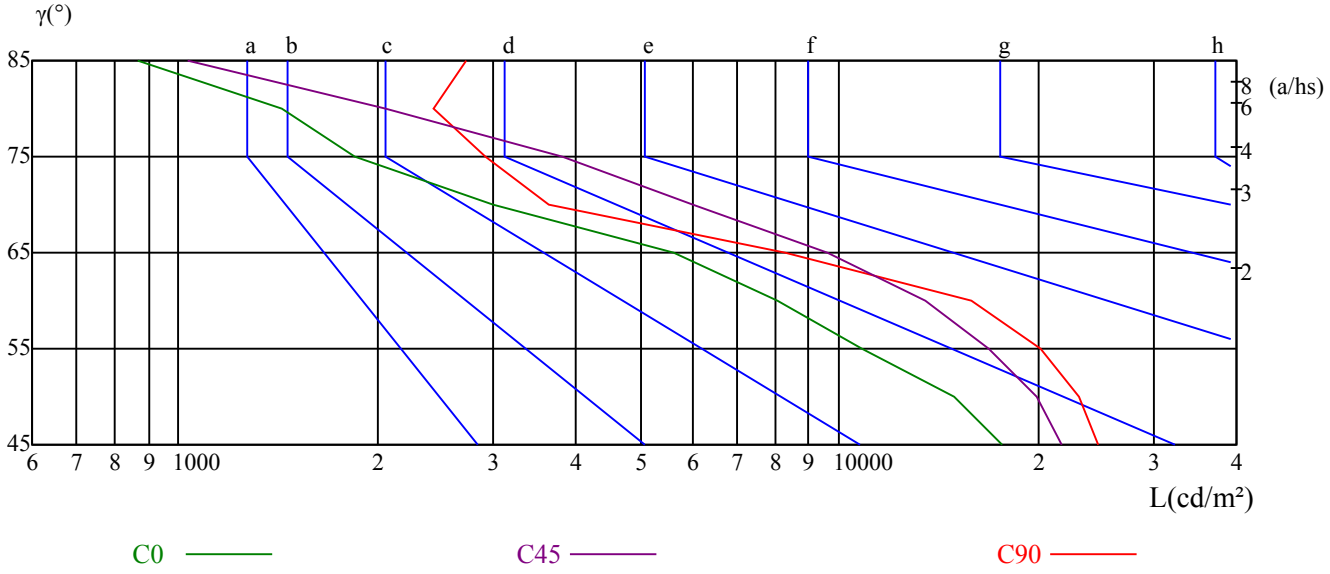
γ	45	50	55	60	65	70	75	80	85
C0	17707	14902	10843	8081	5637	2993	1851	1437	868
C45	21736	19918	16903	13532	9602	6004	3809	2064	1031
C90	24698	23118	20255	15854	8293	3645	2908	2436	2724

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10642	10437	15758	4678	3676	7686	4962	3969	5458

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

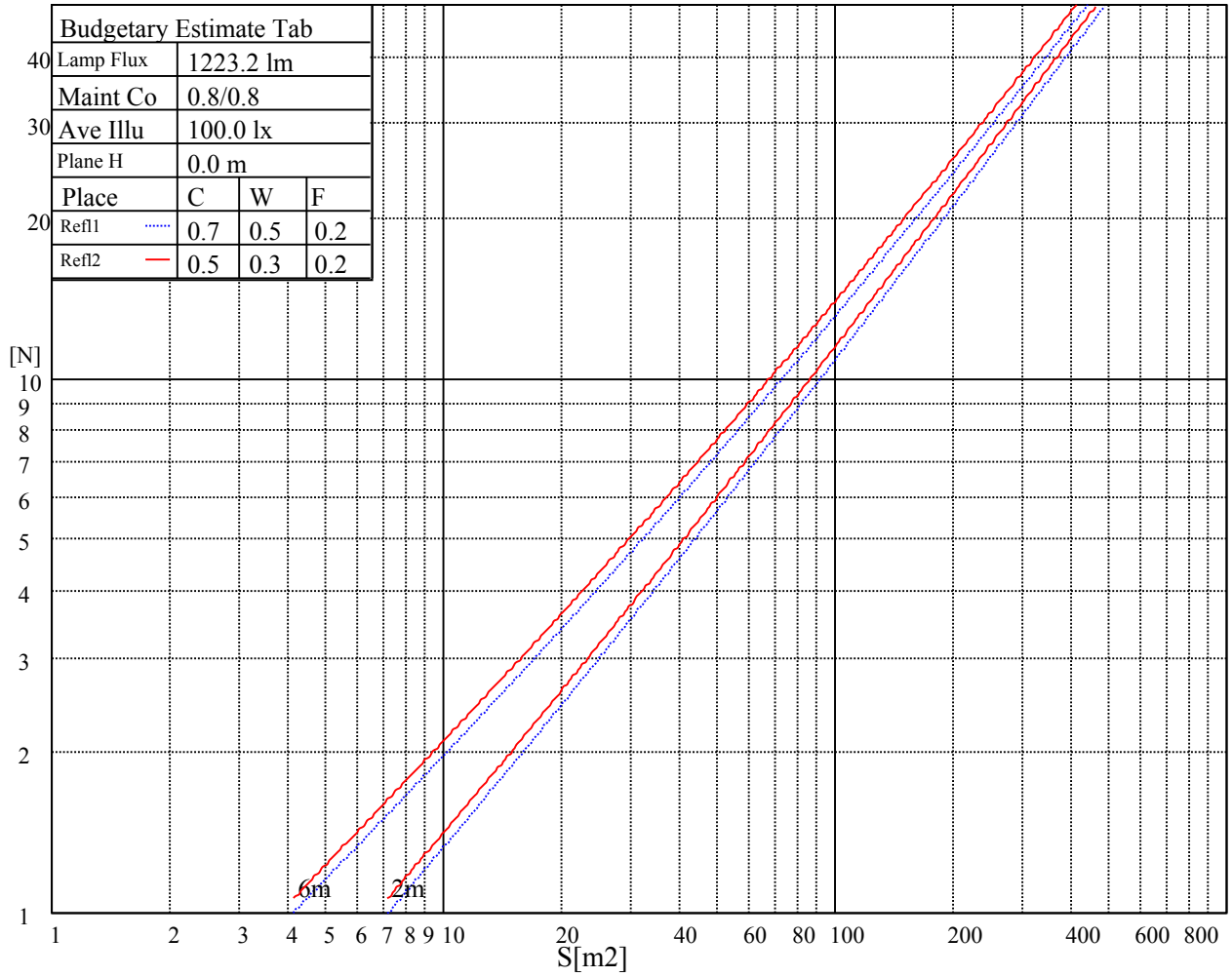


Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions	Viewed crosswise					Viewed endwise				
X Y										
2H 2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H 2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H 4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H 4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字

Variation with the observer position at spacings:		
S = 1.0H	非数字/非数字	非数字/非数字
S = 1.5H	非数字/非数字	非数字/非数字
S = 2.0H	非数字/非数字	非数字/非数字
Standard tables:	BK0	BK0
Uncorrected UGR	负无穷大	负无穷大

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Budgetary Estimate Table

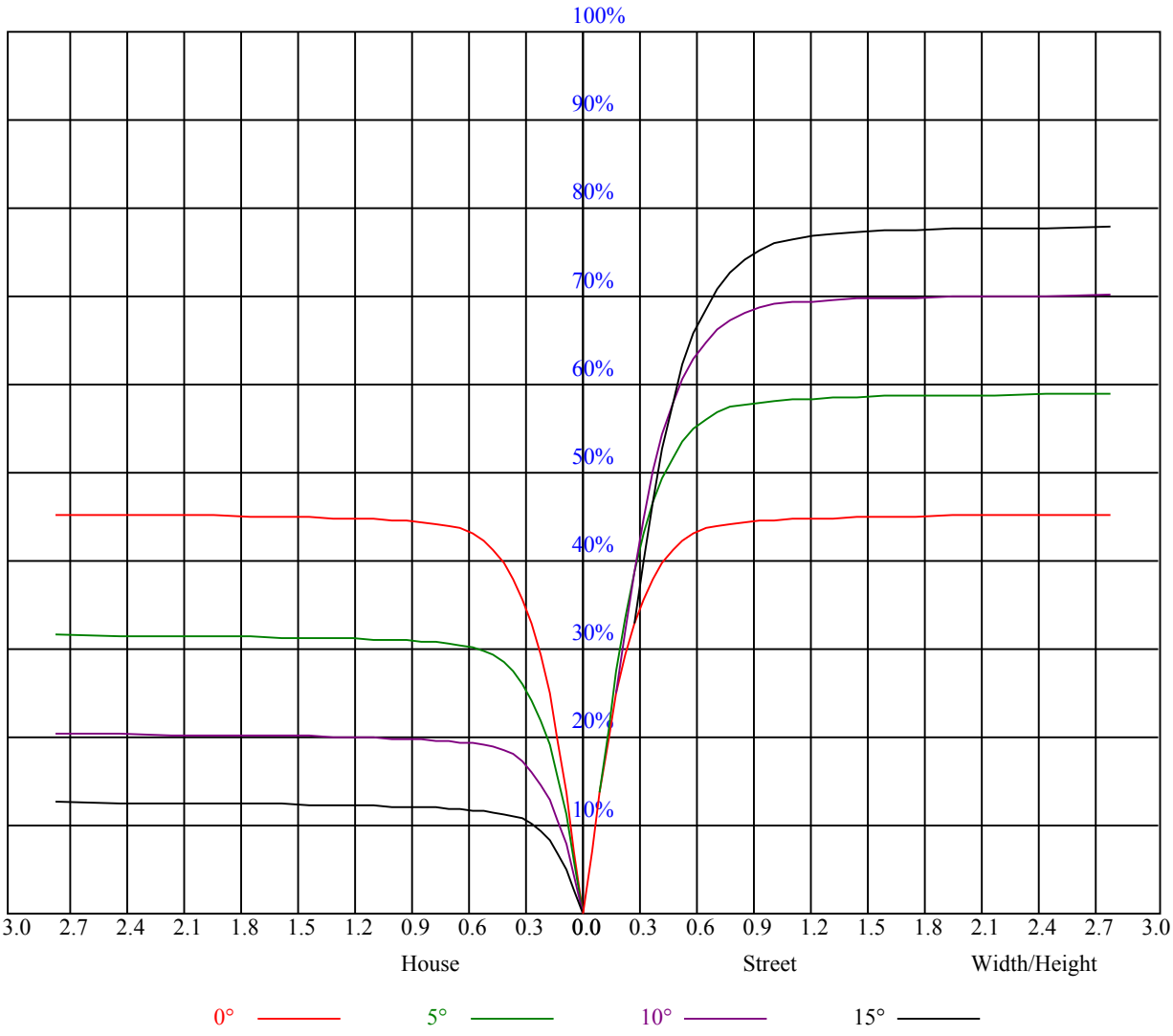


Equipment: GMS1980 Date: 2023/7/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.09	1.09	1.09	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.02	1.00	0.98	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.93	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.87	0.86	0.87	0.85	0.84	0.83
3	0.91	0.88	0.85	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.83	0.81	0.84	0.82	0.80	0.79
4	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
5	0.83	0.79	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.74	0.73
6	0.80	0.76	0.72	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	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
8	0.74	0.70	0.67	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.65
9	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.63	0.62
10	0.69	0.65	0.62	0.68	0.64	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.67	0.64	0.61	0.60

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/7/18	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.44

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	4231.73	4163.64	4021.94	3873.59	3710.85	3473.94	3269.68	3059.34	2789.21
45.0	4267.71	4226.19	4157.55	4008.10	3848.13	3671.00	3465.08	3215.44	2996.79
90.0	4221.76	4138.18	3981.53	3819.34	3638.89	3432.42	3180.01	2959.15	2740.50
135.0	4267.15	4221.21	4134.86	3983.19	3822.11	3648.85	3453.46	3252.52	2987.93
180.0	4231.73	4255.53	4222.32	4153.68	4047.95	3879.68	3713.62	3528.18	3337.21
225.0	4267.71	4242.80	4171.39	4075.63	3912.34	3751.81	3566.93	3315.63	3099.19
270.0	4221.76	4268.26	4262.17	4207.37	4120.47	3995.92	3796.65	3609.55	3351.61
315.0	4267.15	4262.73	4207.37	4078.40	3945.00	3777.27	3540.36	3337.21	3117.46
360.0	4231.73	4163.64	4021.94	3873.59	3710.85	3473.94	3269.68	3059.34	2789.21

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2574.44	2357.45	2147.11	1884.18	1693.76	1523.28	1258.13	1099.10	1069.60
45.0	2788.66	2570.01	2302.65	2092.31	1835.47	1642.84	1466.26	1270.86	1138.01
90.0	2470.38	2249.51	2030.87	1766.28	1578.63	1409.25	1082.88	1082.88	973.01
135.0	2775.93	2555.07	2334.76	2065.74	1860.38	1664.98	1446.89	1291.34	1121.96
180.0	3077.05	2863.94	2650.28	2431.63	2170.36	1958.36	1715.91	1534.90	1389.87
225.0	2881.10	2607.10	2388.45	2175.89	1967.77	1715.91	1535.45	1258.69	1094.67
270.0	3143.48	2917.08	2691.24	2415.02	2192.50	1986.03	1781.22	1538.77	1379.36
315.0	2893.83	2618.72	2406.72	2196.38	1984.92	1734.17	1555.38	1244.29	1077.46
360.0	2574.44	2357.45	2147.11	1884.18	1693.76	1523.28	1258.13	1099.10	1069.60

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	939.85	848.68	774.73	694.47	641.55	595.11	553.04	504.05	459.21
45.0	1022.33	923.24	821.39	751.65	694.63	646.47	594.44	558.46	518.61
90.0	882.61	789.01	727.79	675.31	629.20	579.77	544.02	506.37	451.35
135.0	1009.04	913.28	829.14	741.13	681.90	630.42	586.14	533.00	490.93
180.0	1203.89	1078.79	971.40	881.73	777.66	709.58	657.55	611.60	561.23
225.0	1066.89	964.65	876.47	782.48	719.38	656.27	612.38	573.57	536.27
270.0	1229.35	1094.29	960.88	876.75	773.79	707.92	658.65	602.19	562.34
315.0	1077.46	941.62	847.46	772.63	692.42	639.61	594.61	554.86	516.39
360.0	939.85	848.68	774.73	694.47	641.55	595.11	553.04	504.05	459.21

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	411.44	363.17	303.39	256.95	211.62	169.11	120.89	90.67	65.21
45.0	462.70	415.10	368.05	307.71	283.36	283.36	154.16	117.68	87.90
90.0	403.58	341.86	292.27	244.55	187.10	145.14	109.66	81.98	60.72
135.0	444.99	399.04	341.48	294.43	283.36	225.51	151.72	118.29	84.69
180.0	518.05	469.90	412.33	363.06	312.69	287.78	287.78	158.53	114.19
225.0	480.75	433.64	382.88	331.07	266.97	217.54	174.59	136.23	97.48
270.0	523.59	471.56	427.27	378.01	328.75	280.03	280.03	173.98	135.39
315.0	464.25	418.92	373.14	313.69	266.20	218.87	166.23	130.03	91.89
360.0	411.44	363.17	303.39	256.95	211.62	169.11	120.89	90.67	65.21

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	54.41	48.21	42.12	38.64	35.59	32.71	29.23	26.63	24.08
45.0	67.53	54.25	48.10	43.07	39.36	35.48	32.66	30.00	26.79
90.0	51.98	45.94	40.96	36.42	33.49	30.72	27.51	25.08	22.53
135.0	67.20	54.80	48.66	43.40	39.36	35.15	32.27	29.67	27.12
180.0	87.13	69.30	58.79	50.76	45.33	41.07	37.36	33.43	30.72
225.0	75.50	60.34	53.69	47.99	42.46	38.80	35.54	32.77	29.61
270.0	96.32	73.95	59.95	50.76	45.45	41.18	36.87	34.04	31.33
315.0	70.19	57.51	50.76	44.34	40.30	36.98	34.15	30.67	28.01
360.0	54.41	48.21	42.12	38.64	35.59	32.71	29.23	26.63	24.08

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	21.59	18.99	17.33	15.83	14.39	13.34	12.45	11.73	11.18
45.0	24.13	21.64	19.15	17.55	15.72	14.45	13.40	12.57	11.68
90.0	19.65	17.88	16.38	14.89	13.84	12.95	12.23	11.40	10.85
135.0	23.80	21.31	19.26	17.16	15.72	14.50	13.34	12.57	11.90
180.0	28.12	24.80	22.25	20.04	17.99	16.44	15.11	13.84	12.95
225.0	26.96	24.30	21.42	19.65	18.05	16.61	15.06	14.06	13.23
270.0	28.12	25.57	23.19	20.87	18.65	17.10	15.83	14.67	13.45
315.0	25.46	23.03	20.20	18.38	16.55	15.28	14.17	13.06	12.40
360.0	21.59	18.99	17.33	15.83	14.39	13.34	12.45	11.73	11.18

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	10.57	10.19	9.85	9.58	9.30	9.08	8.91	8.75	8.52
45.0	11.07	10.46	10.07	9.74	9.35	9.13	8.86	8.64	8.52
90.0	10.35	9.96	9.58	9.24	9.02	8.80	8.69	8.47	8.30
135.0	11.18	10.68	10.35	10.02	9.63	9.35	9.19	8.97	8.69
180.0	12.18	11.46	10.96	10.52	10.19	9.80	9.58	9.35	9.13
225.0	12.29	11.68	11.07	10.63	10.24	9.91	9.52	9.35	9.08
270.0	12.68	12.01	11.29	10.85	10.35	9.96	9.69	9.47	9.19
315.0	11.68	11.18	10.63	10.30	9.96	9.69	9.41	9.19	9.02
360.0	10.57	10.19	9.85	9.58	9.30	9.08	8.91	8.75	8.52

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	8.41	8.25	8.08	7.86	7.69	7.42	7.25	7.09	6.81
45.0	8.30	8.14	7.97	7.80	7.64	7.53	7.31	7.09	6.92
90.0	8.19	8.08	7.86	7.75	7.58	7.42	7.20	7.09	6.86
135.0	8.52	8.36	8.19	8.03	7.80	7.64	7.42	7.25	7.03
180.0	8.91	8.75	8.52	8.36	8.19	7.97	7.75	7.53	7.36
225.0	8.86	8.64	8.47	8.36	8.08	7.86	7.69	7.42	7.20
270.0	8.91	8.75	8.58	8.36	8.19	8.03	7.75	7.58	7.42
315.0	8.80	8.58	8.41	8.14	8.03	7.75	7.58	7.36	7.20
360.0	8.41	8.25	8.08	7.86	7.69	7.42	7.25	7.09	6.81

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.64	6.48	6.31	6.14	5.98	5.87	5.76	5.65	5.54
45.0	6.75	6.53	6.37	6.14	6.03	5.92	5.76	5.65	5.54
90.0	6.64	6.53	6.42	6.42	6.09	5.98	5.81	5.70	5.65
135.0	6.81	6.64	6.48	6.25	6.14	6.03	5.87	5.81	5.70
180.0	7.09	6.92	6.70	6.48	6.31	6.14	6.03	5.87	5.76
225.0	7.03	6.75	6.53	6.37	6.20	6.03	5.87	5.76	5.65
270.0	7.20	6.92	6.75	6.53	6.37	6.20	6.03	5.87	5.76
315.0	6.92	6.75	6.53	6.42	6.20	6.03	5.98	5.81	5.70
360.0	6.64	6.48	6.31	6.14	5.98	5.87	5.76	5.65	5.54

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.48	5.37	5.26	5.15	4.98	4.87	4.82	4.76	4.59
45.0	5.42	5.31	5.26	5.15	5.04	4.87	4.82	4.76	4.59
90.0	5.54	5.42	5.37	5.26	4.93	4.82	4.76	4.59	4.59
135.0	5.59	5.48	5.37	5.26	5.20	4.93	4.82	4.71	4.59
180.0	5.59	5.48	5.37	5.37	5.26	5.15	4.98	4.87	4.76
225.0	5.48	5.37	5.26	5.20	5.15	4.98	4.87	4.76	4.71
270.0	5.65	5.54	5.42	5.31	5.20	5.15	4.93	4.87	4.76
315.0	5.65	5.54	5.42	5.26	5.20	4.98	4.87	4.82	4.82
360.0	5.48	5.37	5.26	5.15	4.98	4.87	4.82	4.76	4.59

Intensity data(cd)

C/γ(°)	90.0
0.0	4.65
45.0	4.59
90.0	4.59
135.0	4.59
180.0	4.59
225.0	4.59
270.0	4.71
315.0	4.59
360.0	4.65