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

NATA

Client:
LumCAT: 4-2641-A2
Luminaire: BJB 47.319.2021
Report No: 20230306-B013
Ballast type: AC

Test No: 20230306-C013	Voltage(V): 34.530
LampCAT: CITIZEN CLU038	Current(A): 0.480
Lamp flux(lm): 2617.9	Power (W): 16.574
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2392.99, Efficiency(%): 91.41% , Luminous Efficacy(lm/W): 144.38
Central intensity(cd): 15914.470, Maximum intensity(cd): 15914.470
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=17.2
[C90/270]Total=17.2
Field angle(10%Imax): [C0/180]Total=34.0
[C90/270]Total=34.0
Maximum s/h(1/2): C0_180=0.30 C90_270=0.30
Maximum s/h(1/4): C0_180=0.30 C90_270=0.30
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.41%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.659%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	15914.468	0.000	0	0.00%	0.00%
1.0	15755.376	15.153	15.153	0.58%	0.63%
2.0	15186.976	44.411	59.565	1.70%	2.49%
3.0	14233.933	70.365	129.93	2.69%	5.43%
4.0	13435.499	92.618	222.548	3.54%	9.30%
5.0	12317.672	110.789	333.337	4.23%	13.93%
6.0	10980.955	122.440	455.778	4.68%	19.05%
7.0	9913.768	129.693	585.471	4.95%	24.47%
8.0	8702.129	133.230	718.701	5.09%	30.03%
9.0	7499.601	131.306	850.007	5.02%	35.52%
10.0	6316.867	125.034	975.041	4.78%	40.75%
11.0	5243.780	115.515	1090.556	4.41%	45.57%
12.0	4344.723	104.816	1195.372	4.00%	49.95%
13.0	3576.898	94.010	1289.382	3.59%	53.88%
14.0	2818.365	81.859	1371.241	3.13%	57.30%
15.0	2318.457	70.521	1441.761	2.69%	60.25%
16.0	2045.850	63.949	1505.711	2.44%	62.92%
17.0	1596.747	56.725	1562.436	2.17%	65.29%
18.0	1421.275	49.761	1612.196	1.90%	67.37%
19.0	1276.845	46.942	1659.138	1.79%	69.33%
20.0	1134.431	44.133	1703.271	1.69%	71.18%
21.0	1051.845	41.981	1745.252	1.60%	72.93%
22.0	986.207	40.956	1786.207	1.56%	74.64%
23.0	932.011	40.249	1826.457	1.54%	76.33%
24.0	891.364	39.866	1866.322	1.52%	77.99%
25.0	864.722	39.930	1906.252	1.53%	79.66%
26.0	845.115	40.361	1946.613	1.54%	81.35%
27.0	831.066	41.008	1987.621	1.57%	83.06%
28.0	817.801	41.746	2029.367	1.59%	84.80%
29.0	805.342	42.466	2071.833	1.62%	86.58%
30.0	791.472	43.114	2114.946	1.65%	88.38%
31.0	754.246	43.015	2157.961	1.64%	90.18%
32.0	688.929	41.345	2199.307	1.58%	91.91%
33.0	603.796	38.084	2237.391	1.45%	93.50%
34.0	489.675	33.092	2270.482	1.26%	94.88%
35.0	360.213	26.394	2296.877	1.01%	95.98%
36.0	226.142	18.670	2315.546	0.71%	96.76%
37.0	142.854	12.035	2327.581	0.46%	97.27%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	73.750	7.230	2334.811	0.28%	97.57%
39.0	30.123	3.545	2338.356	0.14%	97.72%
40.0	20.488	1.765	2340.122	0.07%	97.79%
41.0	17.679	1.359	2341.481	0.05%	97.85%
42.0	15.633	1.210	2342.691	0.05%	97.90%
43.0	14.311	1.109	2343.8	0.04%	97.94%
44.0	13.556	1.052	2344.852	0.04%	97.99%
45.0	13.153	1.026	2345.878	0.04%	98.03%
46.0	12.817	1.016	2346.894	0.04%	98.07%
47.0	12.526	1.008	2347.902	0.04%	98.12%
48.0	12.287	1.003	2348.905	0.04%	98.16%
49.0	12.063	1.000	2349.905	0.04%	98.20%
50.0	11.846	0.997	2350.902	0.04%	98.24%
51.0	11.644	0.994	2351.896	0.04%	98.28%
52.0	11.495	0.993	2352.889	0.04%	98.32%
53.0	11.338	0.993	2353.882	0.04%	98.37%
54.0	11.211	0.994	2354.876	0.04%	98.41%
55.0	11.092	0.996	2355.871	0.04%	98.45%
56.0	10.995	0.998	2356.869	0.04%	98.49%
57.0	10.905	1.001	2357.871	0.04%	98.53%
58.0	10.815	1.004	2358.875	0.04%	98.57%
59.0	10.756	1.008	2359.883	0.04%	98.62%
60.0	10.681	1.013	2360.896	0.04%	98.66%
61.0	10.636	1.017	2361.913	0.04%	98.70%
62.0	10.584	1.022	2362.936	0.04%	98.74%
63.0	10.531	1.027	2363.963	0.04%	98.79%
64.0	10.487	1.031	2364.994	0.04%	98.83%
65.0	10.449	1.036	2366.03	0.04%	98.87%
66.0	10.404	1.040	2367.071	0.04%	98.92%
67.0	10.375	1.045	2368.116	0.04%	98.96%
68.0	10.330	1.049	2369.164	0.04%	99.00%
69.0	10.322	1.054	2370.218	0.04%	99.05%
70.0	10.285	1.058	2371.276	0.04%	99.09%
71.0	10.263	1.062	2372.338	0.04%	99.14%
72.0	10.218	1.065	2373.403	0.04%	99.18%
73.0	10.195	1.067	2374.471	0.04%	99.23%
74.0	10.180	1.071	2375.542	0.04%	99.27%
75.0	10.158	1.075	2376.617	0.04%	99.32%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.136	1.077	2377.694	0.04%	99.36%
77.0	10.113	1.080	2378.773	0.04%	99.41%
78.0	10.106	1.082	2379.856	0.04%	99.45%
79.0	10.098	1.086	2380.941	0.04%	99.50%
80.0	10.083	1.088	2382.029	0.04%	99.54%
81.0	10.083	1.091	2383.12	0.04%	99.59%
82.0	10.068	1.093	2384.213	0.04%	99.63%
83.0	10.061	1.094	2385.307	0.04%	99.68%
84.0	10.046	1.095	2386.402	0.04%	99.72%
85.0	10.038	1.096	2387.499	0.04%	99.77%
86.0	10.031	1.097	2388.596	0.04%	99.82%
87.0	10.024	1.098	2389.693	0.04%	99.86%
88.0	10.024	1.098	2390.791	0.04%	99.91%
89.0	10.024	1.099	2391.89	0.04%	99.95%
90.0	10.001	1.098	2392.988	0.04%	100.00%

Zonal flux distribution table

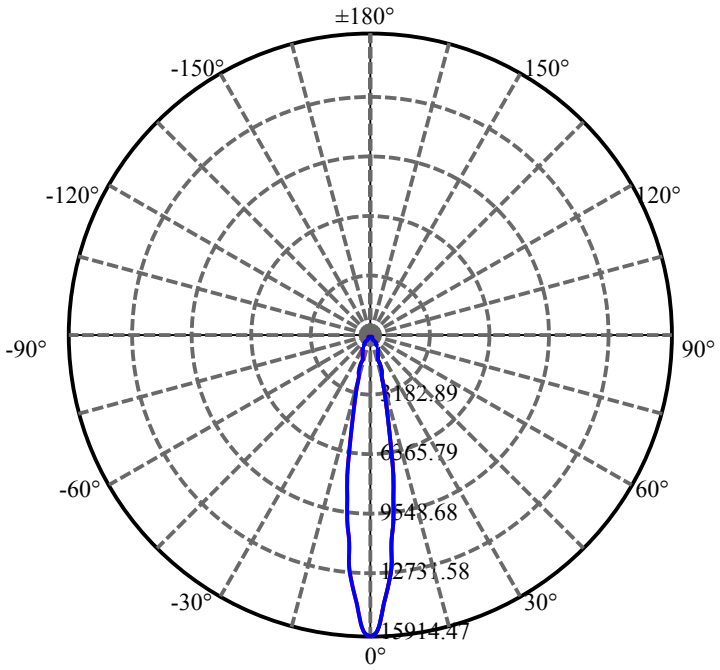
ZONAL LUMEN SUMMARY

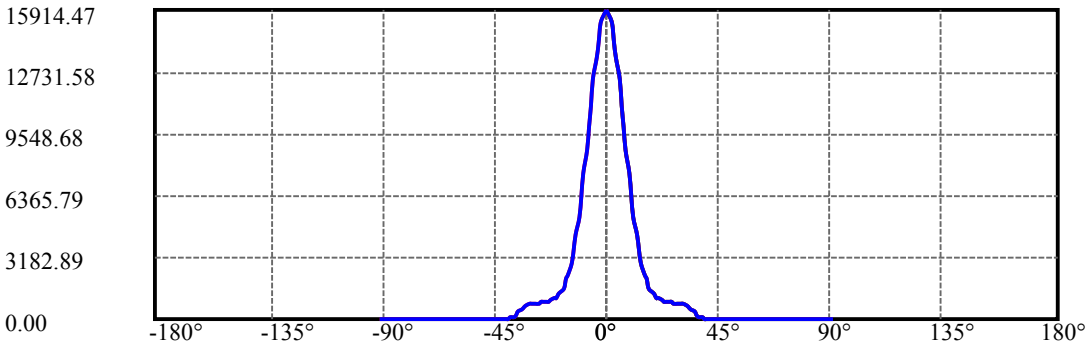
Zone	Lumens	%Lamp	%Fixt
0-30	2114.95	80.79%	88.38%
0-40	2340.12	89.39%	97.79%
0-60	2360.90	90.18%	98.66%
0-90	2391.89	91.37%	99.95%
0-120	2391.89	91.37%	99.95%
0-180	2392.99	91.41%	100.00%
60-90	30.99	1.18%	1.30%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.20	1914.39	73.13%	80.00%

ZONAL LUMEN SUMMARY

0-10	975.04
10-20	728.23
20-30	411.68
30-40	225.18
40-50	10.78
50-60	9.99
60-70	10.38
70-80	10.75
80-90	9.86
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):

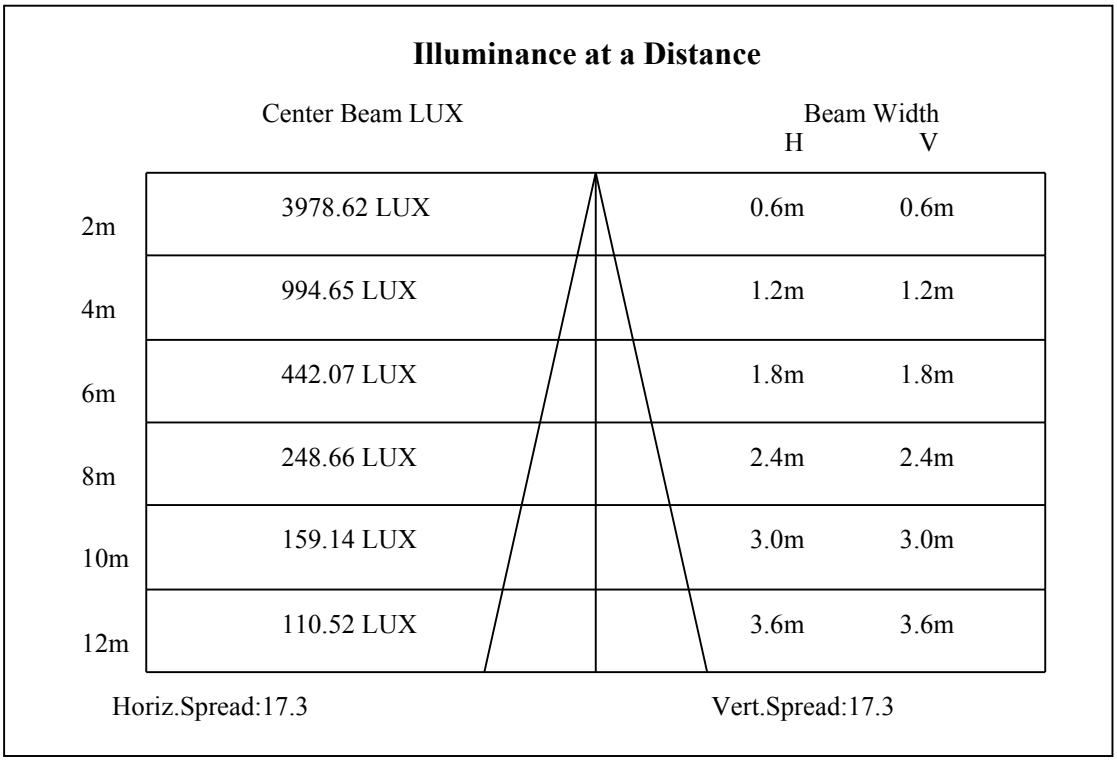
C0/C180:

C90/C270:

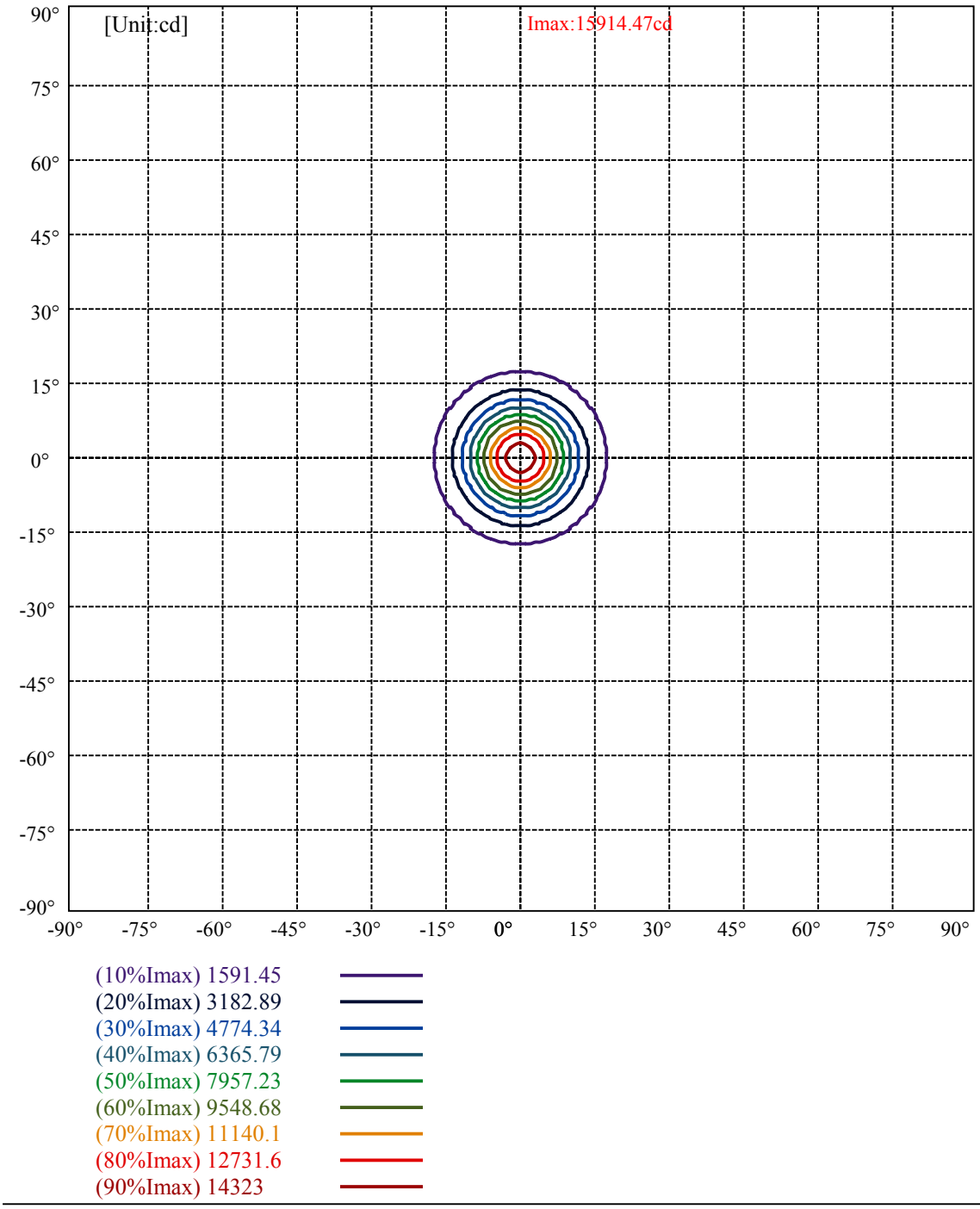
Field angle(10%Imax):C0/180Left:17.0 Right:17.0
:C90/270Left:17.0 Right:17.0

Beam Angle(50%Imax):C0/180Left:8.6 Right:8.6
:C90/270Left:8.6 Right:8.6

Lux distance Curve



ISO-Intensity(V-H)

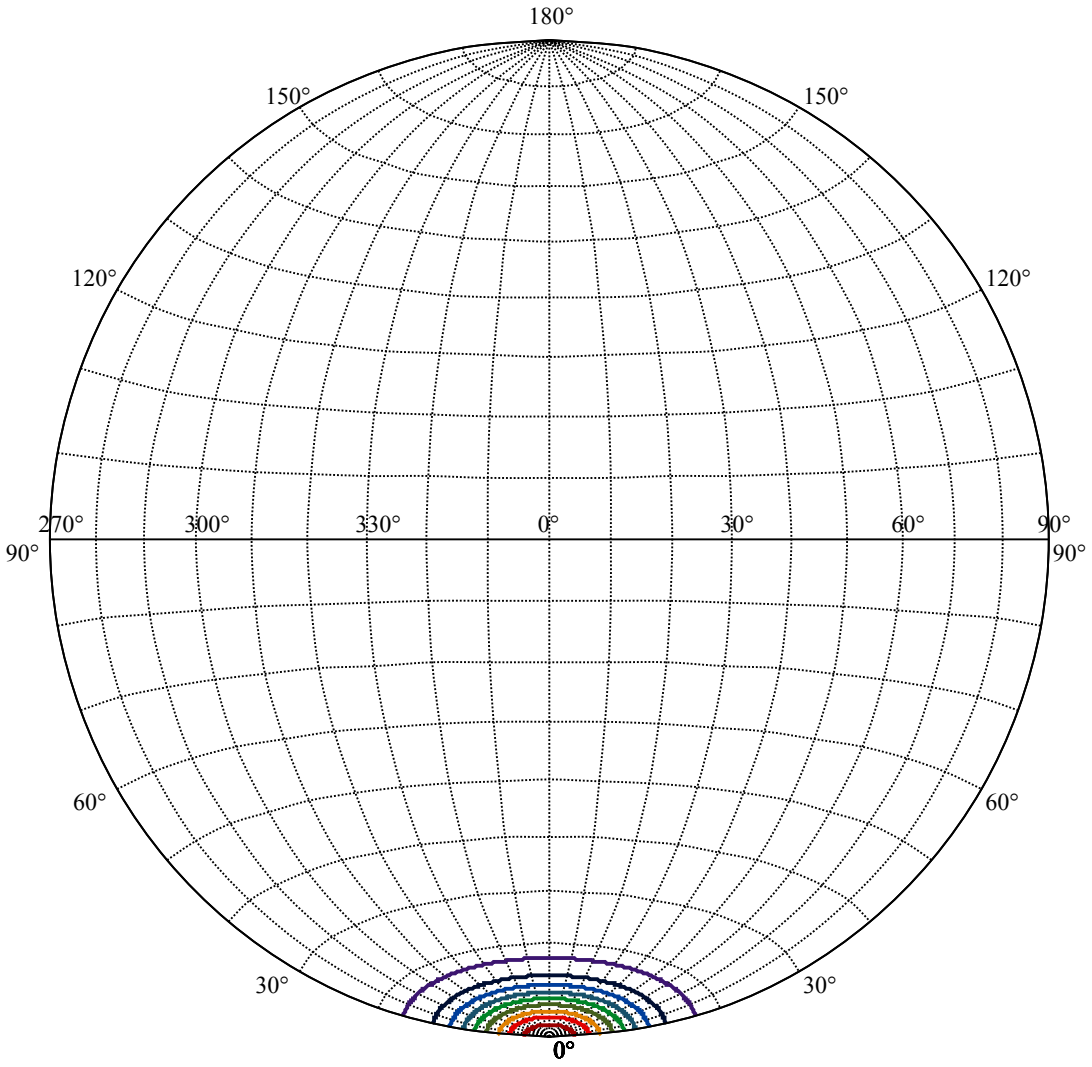


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/3/06
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.73

ISO candela diagram on circular web



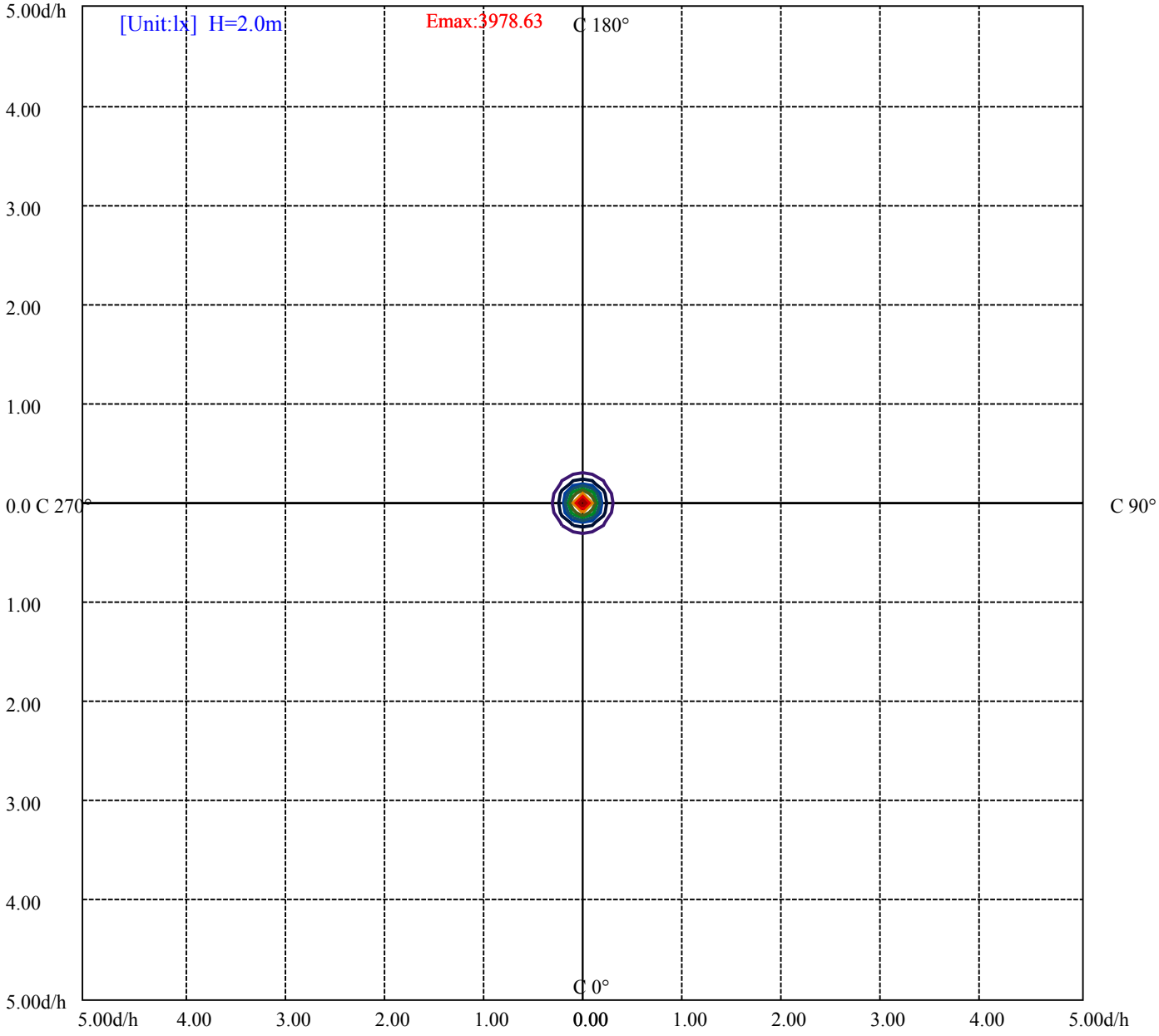
House [Unit:cd] Road

Imax:15914.47

(10%Imax) 1591.45
(20%Imax) 3182.89
(30%Imax) 4774.34
(40%Imax) 6365.79
(50%Imax) 7957.23
(60%Imax) 9548.68
(70%Imax) 11140.1
(80%Imax) 12731.6
(90%Imax) 14323

Equipment: GMS1980 Date: 2023/3/06 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.73

ISO illuminance diagram

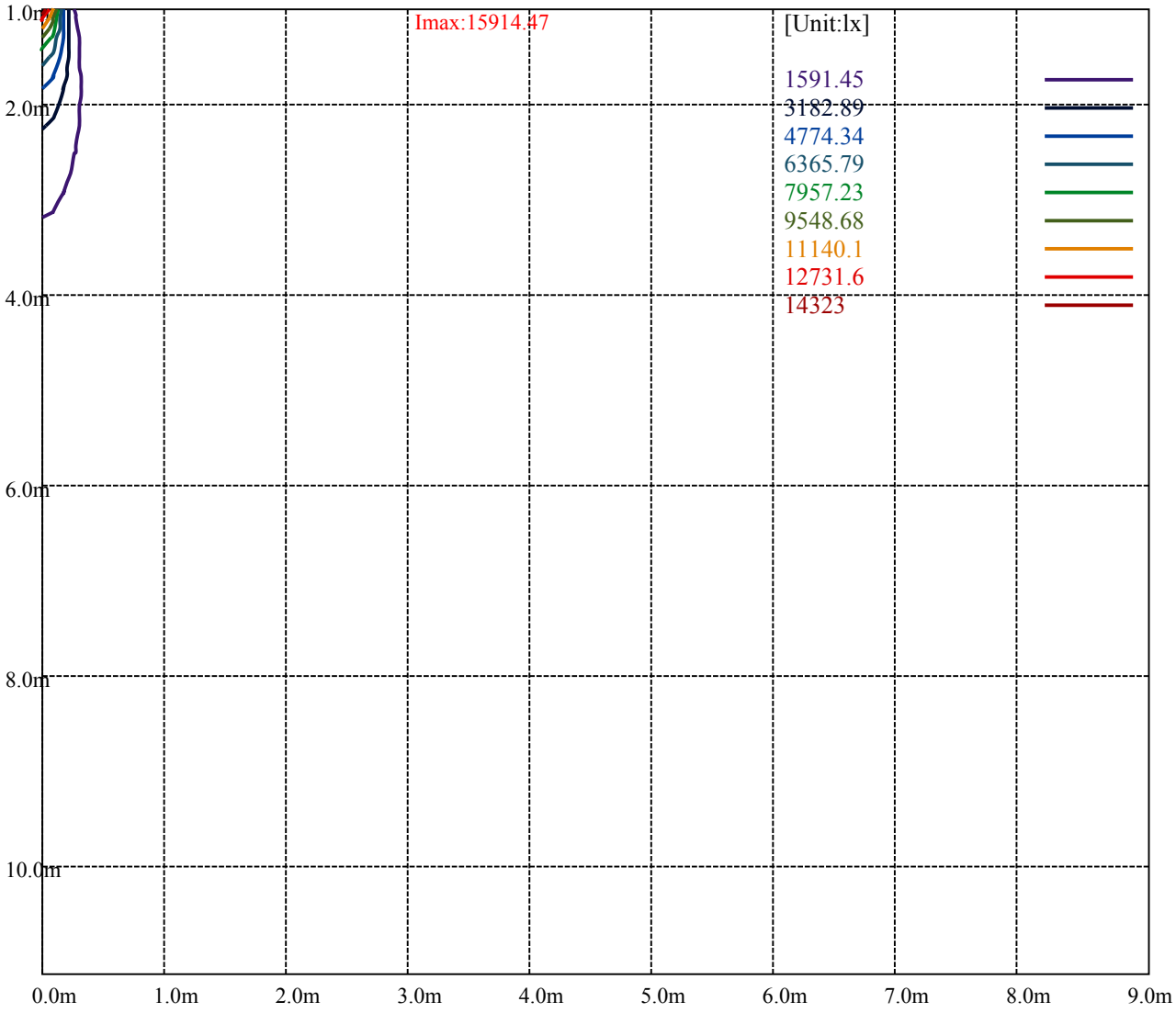


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/3/06
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.73

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/3/06
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.73

Luminance Limitting Curve(no luminous side)

Luminance Table

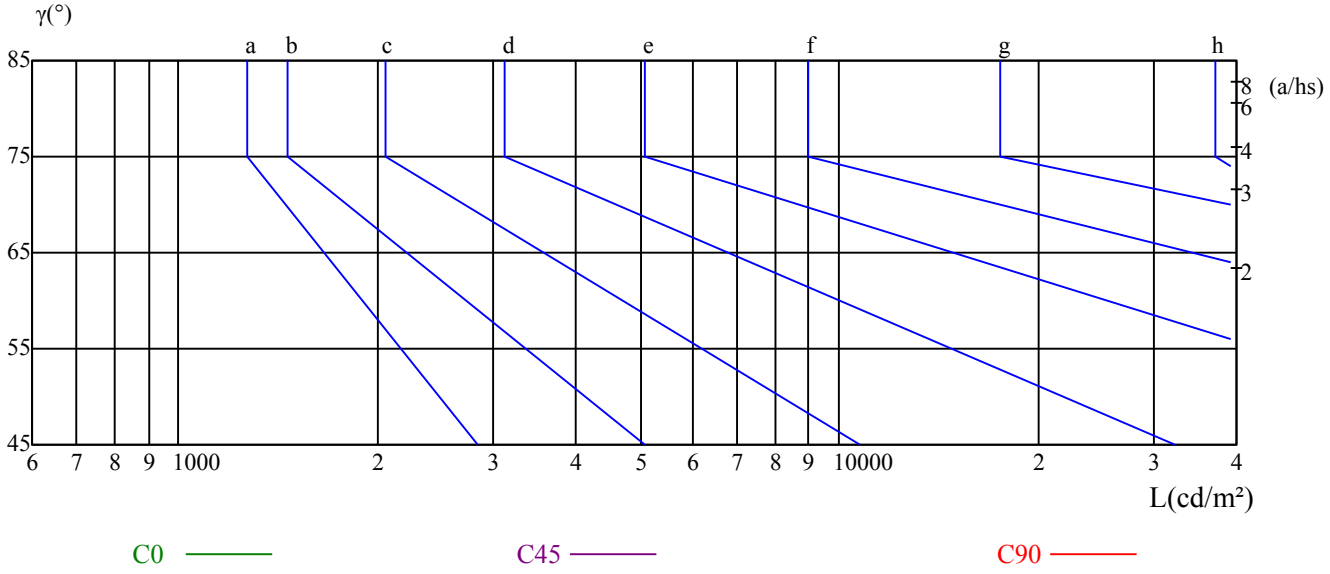
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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

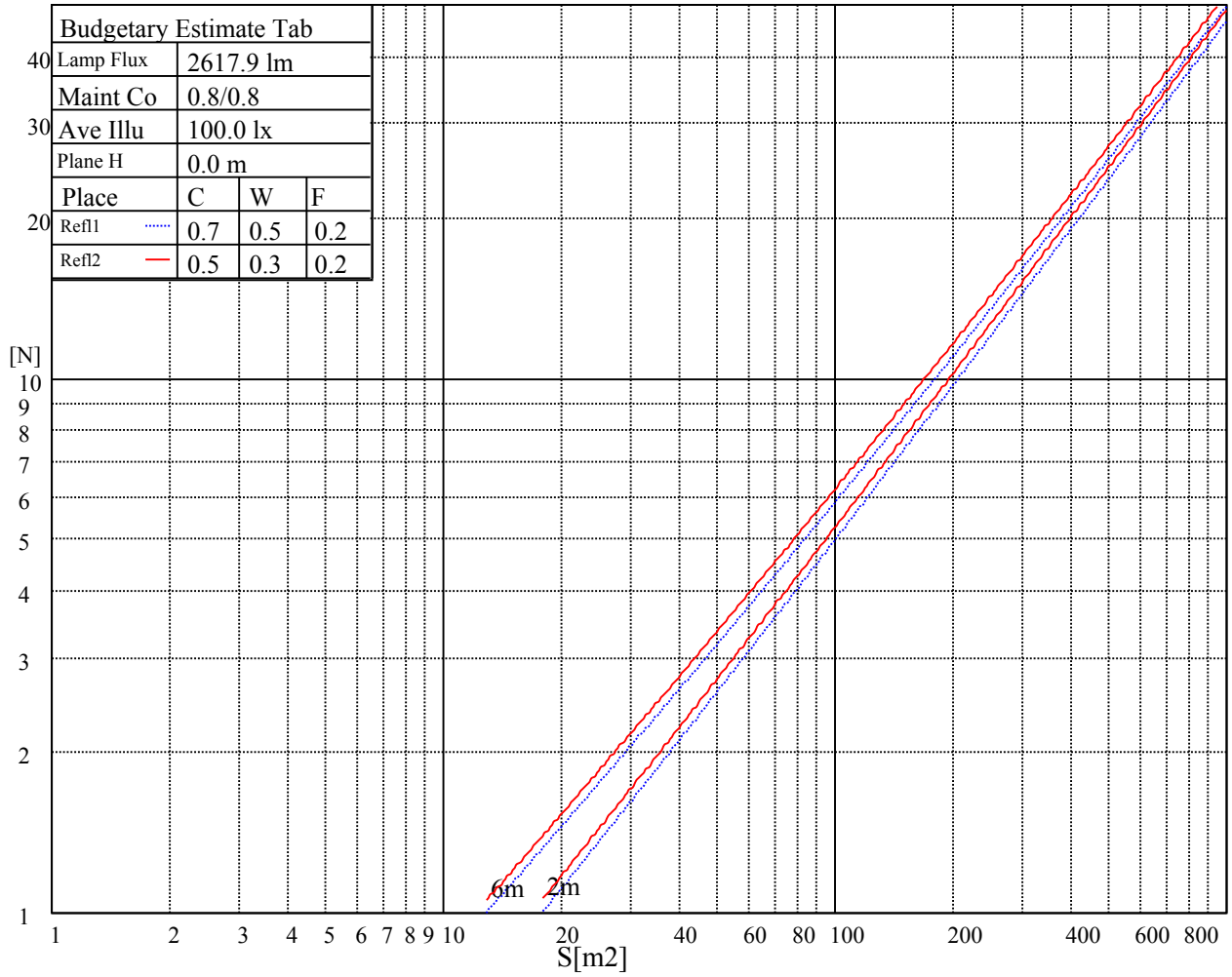


UGR Glare

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	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

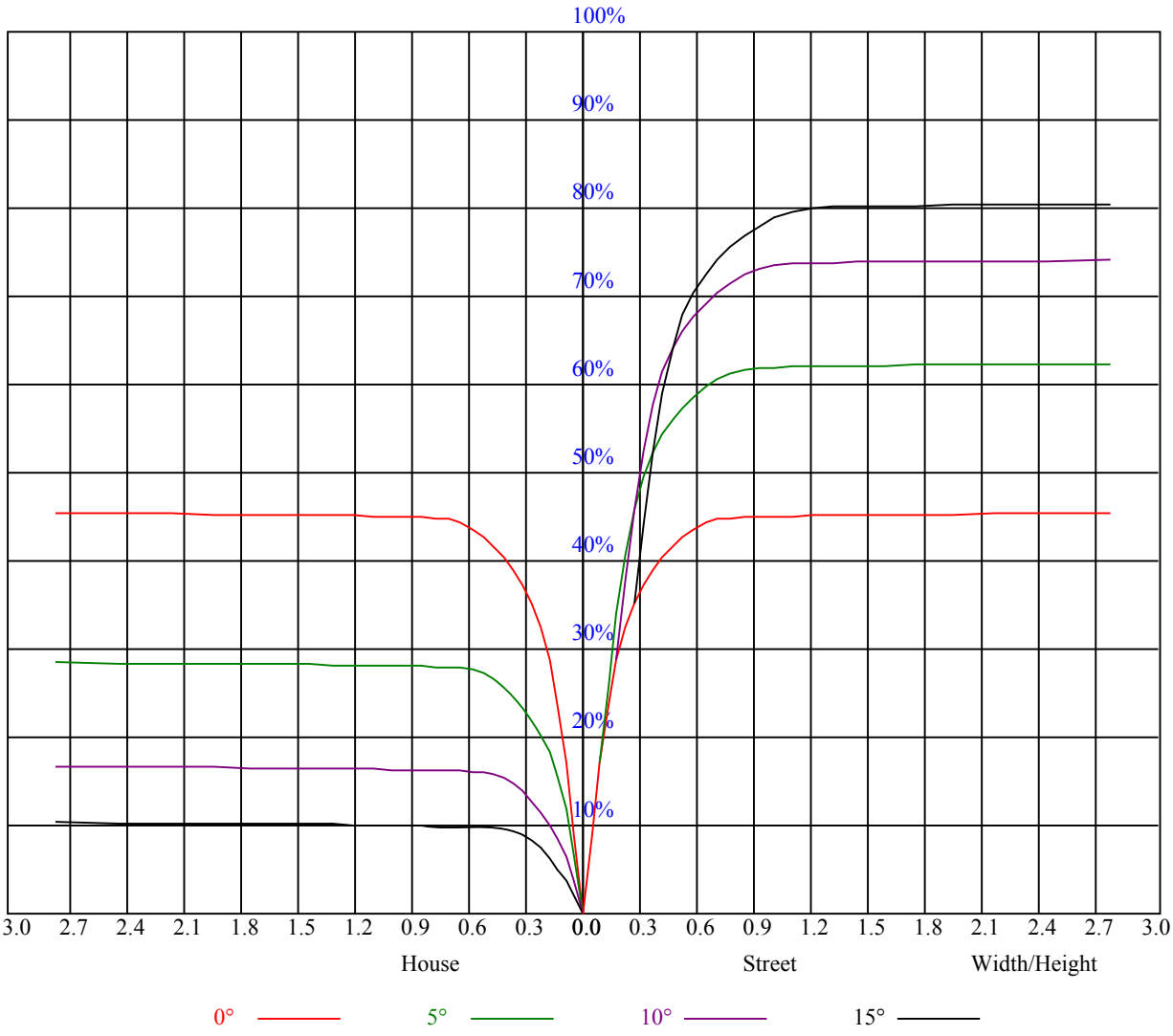


Equipment: GMS1980 Date: 2023/3/06 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.73

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	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.03	1.01	0.99	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88
2	0.98	0.95	0.92	0.96	0.93	0.91	0.93	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.86	0.84
3	0.93	0.90	0.87	0.92	0.89	0.86	0.90	0.87	0.85	0.88	0.85	0.84	0.86	0.84	0.82	0.81
4	0.89	0.86	0.83	0.88	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.80	0.78
5	0.86	0.82	0.79	0.85	0.82	0.79	0.84	0.81	0.78	0.82	0.80	0.78	0.81	0.79	0.77	0.76
6	0.83	0.79	0.76	0.82	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.73
7	0.80	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
8	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
9	0.75	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
10	0.73	0.69	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.66

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/3/06	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.73

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	15654.54	16228.17	16293.90	15905.50	15206.40	14178.65	13025.42	11836.33	10730.90
45.0	16210.24	15738.20	14770.20	13802.20	12780.43	11585.37	10288.73	9117.58	7826.91
90.0	15786.00	15074.94	13915.73	12601.17	11816.73	10405.97	9230.03	8054.69	6634.36
135.0	16007.08	15248.22	14232.42	13234.55	12087.29	11017.72	9739.01	8448.34	7330.96
180.0	15654.54	14877.76	13951.59	11914.13	11647.04	10544.59	9100.37	7941.16	6814.82
225.0	16210.24	16299.87	15899.53	15092.87	14196.57	13067.24	11859.16	10768.67	9500.11
270.0	15786.00	16240.12	16246.10	15774.05	15015.19	13957.56	12786.40	11728.78	10479.94
315.0	16007.08	16335.73	16186.34	15546.99	14734.35	13784.28	11818.53	11414.60	10299.01
360.0	15654.54	16228.17	16293.90	15905.50	15206.40	14178.65	13025.42	11836.33	10730.90

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	9440.24	8131.65	6990.37	5920.80	4677.94	3817.49	3106.43	3028.75	2020.25
45.0	6560.15	5496.55	4409.05	3590.43	3088.51	2306.46	1933.60	1660.53	1419.13
90.0	5569.57	4600.38	3577.41	3001.39	2412.82	2011.28	1683.24	1479.48	1184.18
135.0	6100.05	4952.80	4044.55	3285.69	3040.71	2111.07	1785.42	1576.28	1343.25
180.0	5616.18	4523.29	3695.72	2946.42	2425.37	1981.41	1663.52	1463.95	1185.62
225.0	8360.63	7083.71	5871.92	4881.21	3995.08	3095.80	2549.06	2124.81	1730.44
270.0	9350.61	8059.95	6799.16	5759.46	4671.96	3727.86	3040.71	2726.52	1993.95
315.0	8999.38	7686.61	6562.06	5372.38	4302.81	3495.54	2785.68	2306.46	1897.15
360.0	9440.24	8131.65	6990.37	5920.80	4677.94	3817.49	3106.43	3028.75	2020.25

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1722.08	1506.37	1310.98	1191.47	1095.27	1012.81	949.47	905.85	872.99
45.0	1275.13	1161.60	1054.04	985.92	930.35	885.54	861.04	845.50	831.16
90.0	1171.04	1078.24	997.28	935.01	893.54	866.95	846.28	833.19	821.66
135.0	1217.17	1128.13	1021.18	960.23	917.80	877.77	855.66	843.11	828.77
180.0	1159.74	1069.28	997.75	927.90	886.73	860.02	838.93	828.83	818.38
225.0	1510.55	1351.61	1184.06	1102.14	1025.60	964.53	912.55	876.46	856.32
270.0	1701.76	1490.24	1318.15	1184.90	1089.89	1006.84	944.10	902.87	872.39
315.0	1612.73	1429.29	1192.01	1127.18	1050.46	981.62	922.88	881.95	859.25
360.0	1722.08	1506.37	1310.98	1191.47	1095.27	1012.81	949.47	905.85	872.99

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	853.87	838.33	824.59	815.03	802.48	788.74	771.41	709.27	570.04
45.0	820.41	807.26	794.71	780.37	746.31	645.33	521.64	379.43	308.32
90.0	808.04	796.03	782.58	761.67	682.50	568.13	415.58	277.67	142.03
135.0	817.42	806.07	790.53	777.39	728.39	596.33	473.84	324.46	164.80
180.0	807.32	794.65	782.23	761.01	673.65	556.00	407.63	259.63	129.54
225.0	841.14	829.13	819.57	807.86	796.39	779.60	713.21	605.42	469.42
270.0	856.26	841.92	829.97	819.81	809.65	794.71	773.80	706.28	580.20
315.0	844.07	829.01	818.55	808.64	794.59	782.58	753.25	655.25	517.34
360.0	853.87	838.33	824.59	815.03	802.48	788.74	771.41	709.27	570.04

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	436.20	315.50	151.95	53.54	26.41	21.75	18.11	15.77	14.22
45.0	100.27	40.03	24.80	20.20	17.21	15.18	13.80	13.44	13.15
90.0	51.93	26.23	22.29	18.28	15.89	14.34	13.68	13.32	13.03
135.0	75.41	31.19	22.17	18.46	16.01	14.04	13.38	13.09	12.73
180.0	50.91	24.44	20.61	17.21	14.76	13.74	13.32	12.97	12.61
225.0	287.71	159.72	68.84	26.23	22.35	19.12	16.25	14.46	13.86
270.0	425.44	316.69	163.30	47.38	26.65	22.29	19.00	16.31	14.88
315.0	381.28	229.03	116.04	39.68	24.62	20.97	17.51	15.12	13.98
360.0	436.20	315.50	151.95	53.54	26.41	21.75	18.11	15.77	14.22

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	13.74	13.38	12.91	12.61	12.37	12.13	11.89	11.71	11.53
45.0	12.73	12.49	12.25	12.07	11.83	11.65	11.47	11.35	11.17
90.0	12.73	12.43	12.19	11.95	11.83	11.65	11.47	11.35	11.17
135.0	12.49	12.25	12.01	11.83	11.71	11.47	11.35	11.23	11.11
180.0	12.37	12.07	11.89	11.71	11.53	11.35	11.23	11.11	11.05
225.0	13.44	13.03	12.73	12.49	12.19	12.01	11.71	11.59	11.41
270.0	14.10	13.68	13.38	13.03	12.73	12.49	12.19	11.95	11.77
315.0	13.62	13.21	12.85	12.61	12.31	12.01	11.83	11.65	11.47
360.0	13.74	13.38	12.91	12.61	12.37	12.13	11.89	11.71	11.53

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.41	11.23	11.17	10.99	10.93	10.88	10.76	10.76	10.70
45.0	11.11	10.99	10.88	10.82	10.76	10.70	10.64	10.58	10.52
90.0	11.05	10.93	10.88	10.82	10.76	10.70	10.58	10.58	10.52
135.0	10.99	10.88	10.82	10.76	10.70	10.64	10.58	10.52	10.52
180.0	10.93	10.88	10.82	10.76	10.64	10.58	10.58	10.52	10.46
225.0	11.23	11.17	11.05	10.93	10.82	10.76	10.70	10.64	10.58
270.0	11.59	11.41	11.29	11.17	11.05	10.99	10.88	10.82	10.76
315.0	11.35	11.23	11.05	10.99	10.88	10.82	10.76	10.70	10.64
360.0	11.41	11.23	11.17	10.99	10.93	10.88	10.76	10.76	10.70

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.64	10.58	10.52	10.52	10.46	10.40	10.40	10.34	10.34
45.0	10.52	10.46	10.40	10.34	10.34	10.28	10.28	10.22	10.22
90.0	10.46	10.40	10.40	10.34	10.28	10.28	10.28	10.28	10.22
135.0	10.46	10.40	10.40	10.34	10.34	10.28	10.28	10.28	10.22
180.0	10.46	10.40	10.40	10.34	10.34	10.28	10.28	10.28	10.22
225.0	10.52	10.52	10.46	10.40	10.40	10.34	10.34	10.28	10.28
270.0	10.70	10.64	10.58	10.52	10.46	10.40	10.40	10.34	10.34
315.0	10.52	10.52	10.46	10.46	10.40	10.40	10.34	10.28	10.28
360.0	10.64	10.58	10.52	10.52	10.46	10.40	10.40	10.34	10.34

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.34	10.28	10.22	10.16	10.22	10.16	10.16	10.16	10.16
45.0	10.16	10.16	10.16	10.10	10.10	10.10	10.04	10.04	10.04
90.0	10.16	10.16	10.16	10.10	10.10	10.10	10.04	10.10	10.04
135.0	10.22	10.16	10.16	10.16	10.10	10.10	10.16	10.10	10.10
180.0	10.16	10.16	10.16	10.16	10.16	10.10	10.10	10.10	10.10
225.0	10.22	10.16	10.16	10.16	10.10	10.10	10.10	10.04	10.04
270.0	10.28	10.22	10.22	10.22	10.16	10.16	10.16	10.16	10.10
315.0	10.22	10.28	10.22	10.22	10.16	10.10	10.10	10.10	10.10
360.0	10.34	10.28	10.22	10.16	10.22	10.16	10.16	10.16	10.16

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.10	10.10	10.10	10.10	10.04	10.10	10.10	10.04	10.10
45.0	10.04	10.04	10.04	10.04	9.98	9.98	9.98	9.98	9.98
90.0	10.04	10.04	10.04	9.98	10.04	10.04	9.98	10.04	10.04
135.0	10.10	10.10	10.10	10.04	10.04	10.04	10.04	10.04	10.04
180.0	10.10	10.04	10.04	10.10	10.10	10.04	10.04	10.04	10.04
225.0	10.10	10.04	10.04	10.04	10.04	9.98	9.98	9.98	9.98
270.0	10.10	10.10	10.10	10.04	10.04	10.04	10.04	10.04	9.98
315.0	10.10	10.10	10.04	10.04	10.04	10.04	10.04	10.04	10.04
360.0	10.10	10.10	10.10	10.10	10.04	10.10	10.10	10.04	10.10

Intensity data(cd)

C/γ(°)	90.0
0.0	10.04
45.0	9.98
90.0	9.98
135.0	9.98
180.0	10.04
225.0	9.98
270.0	9.98
315.0	10.04
360.0	10.04