NATA LIGHTING CO.,LTD.
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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:
LumCAT: 3-2832-L
Luminaire: 92.70.412.00
Report No: 2024228-B005
Ballast type: AC

Test No: 2024228-C005	Voltage(V): 35.570
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.541
Lamp flux(lm): 2613.0	Power (W): 19.243
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2237.47, Efficiency(%): 85.63% , Luminous Efficacy(lm/W): 116.27
Central intensity(cd): 11346.990, Maximum intensity(cd): 11346.990
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=17.0
[C90/270]Total=17.0
Field angle(10%Imax): [C0/180]Total=48.6
[C90/270]Total=48.6
Maximum s/h(1/2): C0_180=0.29 C90_270=0.29
Maximum s/h(1/4): C0_180=0.34 C90_270=0.34
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.63%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.931%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11346.986	0.000	0	0.00%	0.00%
1.0	11241.133	10.808	10.808	0.41%	0.48%
2.0	10895.558	31.773	42.581	1.22%	1.90%
3.0	10306.968	50.709	93.29	1.94%	4.17%
4.0	9603.089	66.645	159.935	2.55%	7.15%
5.0	8757.512	78.986	238.922	3.02%	10.68%
6.0	7836.002	87.203	326.125	3.34%	14.58%
7.0	6932.122	91.665	417.791	3.51%	18.67%
8.0	6039.946	92.839	510.629	3.55%	22.82%
9.0	5276.081	91.710	602.34	3.51%	26.92%
10.0	4583.980	89.230	691.569	3.41%	30.91%
11.0	4033.576	86.107	777.677	3.30%	34.76%
12.0	3569.638	83.114	860.791	3.18%	38.47%
13.0	3200.947	80.350	941.14	3.08%	42.06%
14.0	2876.074	77.785	1018.926	2.98%	45.54%
15.0	2614.478	75.377	1094.302	2.88%	48.91%
16.0	2371.171	73.054	1167.356	2.80%	52.17%
17.0	2159.027	70.547	1237.904	2.70%	55.33%
18.0	1983.240	68.297	1306.201	2.61%	58.38%
19.0	1819.377	66.158	1372.358	2.53%	61.34%
20.0	1668.389	63.836	1436.194	2.44%	64.19%
21.0	1516.998	61.166	1497.36	2.34%	66.92%
22.0	1386.588	58.349	1555.709	2.23%	69.53%
23.0	1254.240	55.412	1611.12	2.12%	72.01%
24.0	1164.415	52.880	1664.001	2.02%	74.37%
25.0	1070.442	50.816	1714.817	1.94%	76.64%
26.0	978.869	48.374	1763.191	1.85%	78.80%
27.0	904.663	46.081	1809.272	1.76%	80.86%
28.0	841.992	44.222	1853.494	1.69%	82.84%
29.0	783.463	42.526	1896.02	1.63%	84.74%
30.0	713.228	40.410	1936.43	1.55%	86.55%
31.0	627.822	37.319	1973.75	1.43%	88.21%
32.0	531.092	33.202	2006.951	1.27%	89.70%
33.0	429.636	28.303	2035.255	1.08%	90.96%
34.0	334.024	23.111	2058.365	0.88%	92.00%
35.0	258.523	18.402	2076.768	0.70%	92.82%
36.0	193.102	14.380	2091.148	0.55%	93.46%
37.0	148.991	11.157	2102.305	0.43%	93.96%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	89.971	7.976	2110.281	0.31%	94.32%
39.0	78.442	5.748	2116.029	0.22%	94.57%
40.0	71.953	5.245	2121.275	0.20%	94.81%
41.0	66.796	4.941	2126.215	0.19%	95.03%
42.0	62.144	4.685	2130.9	0.18%	95.24%
43.0	57.842	4.445	2135.345	0.17%	95.44%
44.0	54.067	4.224	2139.568	0.16%	95.62%
45.0	50.446	4.017	2143.585	0.15%	95.80%
46.0	47.440	3.828	2147.413	0.15%	95.98%
47.0	44.631	3.662	2151.075	0.14%	96.14%
48.0	42.392	3.518	2154.593	0.13%	96.30%
49.0	40.424	3.401	2157.994	0.13%	96.45%
50.0	38.720	3.300	2161.294	0.13%	96.60%
51.0	37.301	3.216	2164.51	0.12%	96.74%
52.0	36.255	3.156	2167.666	0.12%	96.88%
53.0	35.216	3.109	2170.775	0.12%	97.02%
54.0	34.440	3.070	2173.845	0.12%	97.16%
55.0	33.541	3.035	2176.88	0.12%	97.29%
56.0	32.678	2.992	2179.872	0.11%	97.43%
57.0	31.653	2.941	2182.814	0.11%	97.56%
58.0	30.571	2.877	2185.691	0.11%	97.69%
59.0	29.195	2.794	2188.485	0.11%	97.81%
60.0	27.769	2.691	2191.176	0.10%	97.93%
61.0	26.196	2.575	2193.752	0.10%	98.05%
62.0	24.572	2.446	2196.198	0.09%	98.16%
63.0	22.955	2.312	2198.51	0.09%	98.26%
64.0	21.361	2.175	2200.684	0.08%	98.36%
65.0	19.985	2.046	2202.73	0.08%	98.45%
66.0	18.720	1.931	2204.661	0.07%	98.53%
67.0	17.630	1.828	2206.489	0.07%	98.62%
68.0	16.759	1.742	2208.231	0.07%	98.69%
69.0	16.042	1.673	2209.905	0.06%	98.77%
70.0	15.457	1.618	2211.522	0.06%	98.84%
71.0	14.989	1.574	2213.096	0.06%	98.91%
72.0	14.587	1.538	2214.634	0.06%	98.98%
73.0	14.206	1.506	2216.14	0.06%	99.05%
74.0	13.884	1.477	2217.616	0.06%	99.11%
75.0	13.563	1.450	2219.067	0.06%	99.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.255	1.424	2220.49	0.05%	99.24%
77.0	12.992	1.399	2221.89	0.05%	99.30%
78.0	12.707	1.376	2223.265	0.05%	99.37%
79.0	12.414	1.350	2224.615	0.05%	99.43%
80.0	12.026	1.318	2225.933	0.05%	99.48%
81.0	11.631	1.279	2227.212	0.05%	99.54%
82.0	11.295	1.243	2228.455	0.05%	99.60%
83.0	11.024	1.213	2229.668	0.05%	99.65%
84.0	10.739	1.186	2230.854	0.05%	99.70%
85.0	10.476	1.158	2232.012	0.04%	99.76%
86.0	10.241	1.132	2233.144	0.04%	99.81%
87.0	10.015	1.109	2234.253	0.04%	99.86%
88.0	9.824	1.087	2235.34	0.04%	99.90%
89.0	9.685	1.069	2236.409	0.04%	99.95%
90.0	9.620	1.058	2237.468	0.04%	100.00%

Zonal flux distribution table

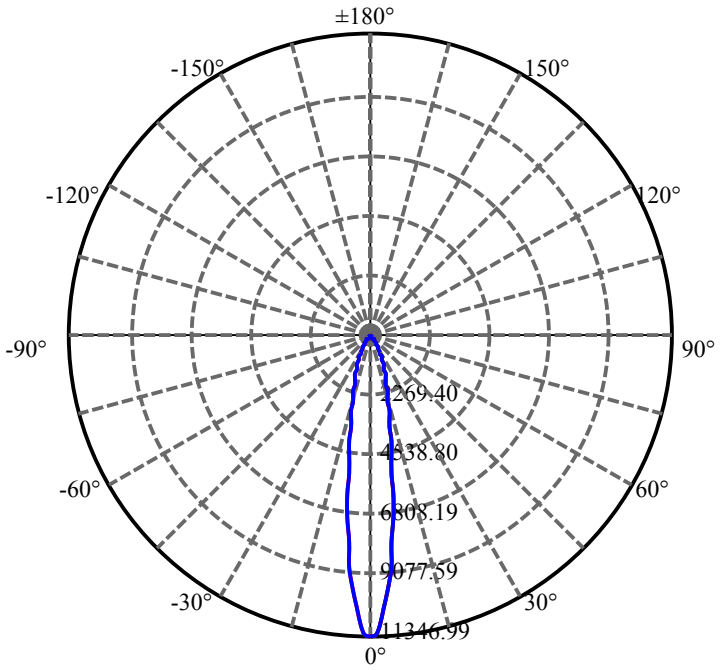
ZONAL LUMEN SUMMARY

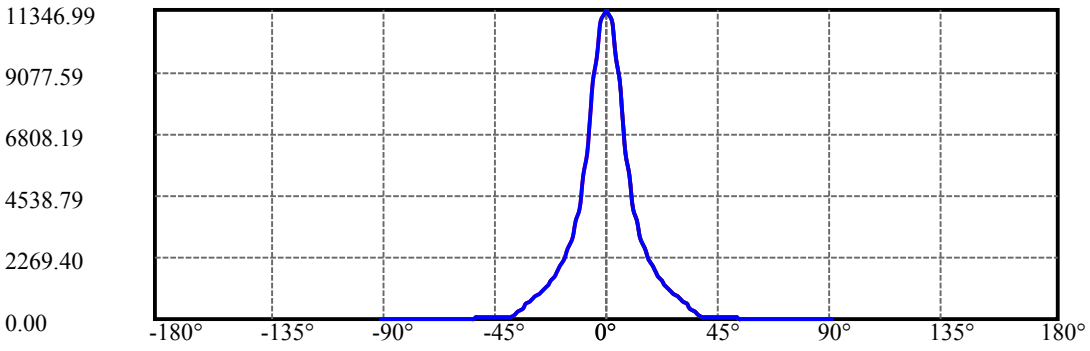
Zone	Lumens	%Lamp	%Fixt
0-30	1936.43	74.11%	86.55%
0-40	2121.27	81.18%	94.81%
0-60	2191.18	83.86%	97.93%
0-90	2236.41	85.59%	99.95%
0-120	2236.41	85.59%	99.95%
0-180	2237.47	85.63%	100.00%
60-90	45.23	1.73%	2.02%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.58	1789.97	68.50%	80.00%

ZONAL LUMEN SUMMARY

0-10	691.57
10-20	744.62
20-30	500.24
30-40	184.84
40-50	40.02
50-60	29.88
60-70	20.35
70-80	14.41
80-90	10.48
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):

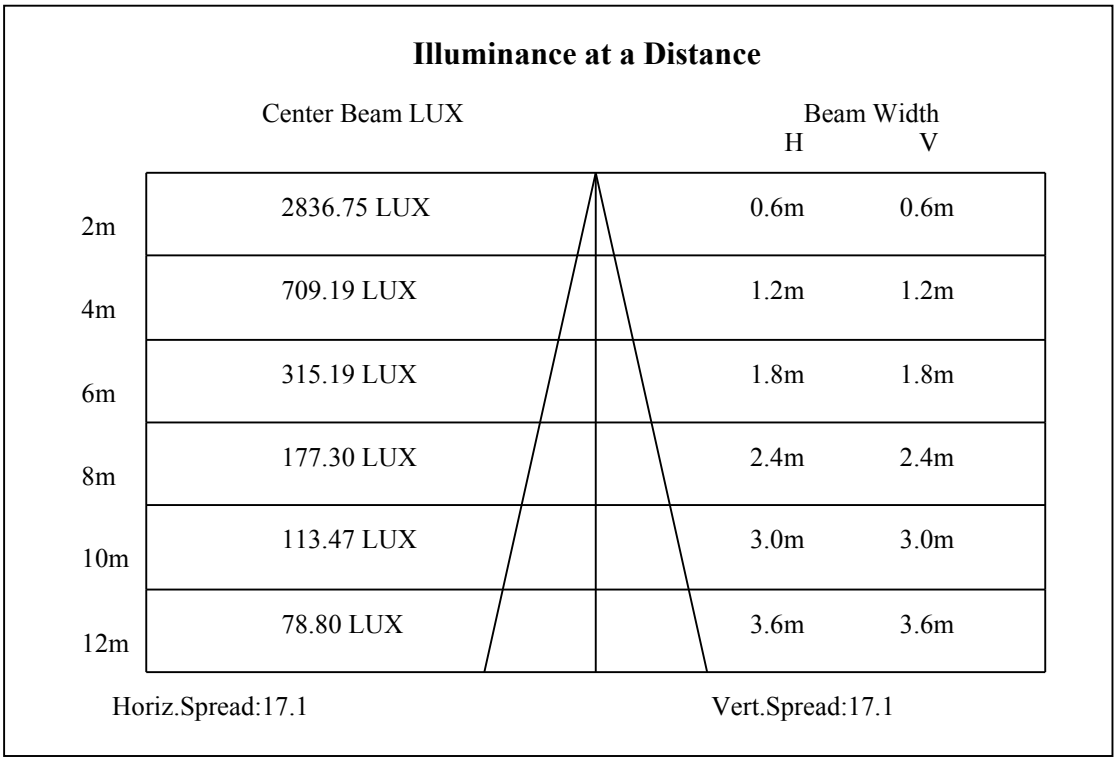
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:24.3 Right:24.3
:C90/270Left:24.3 Right:24.3

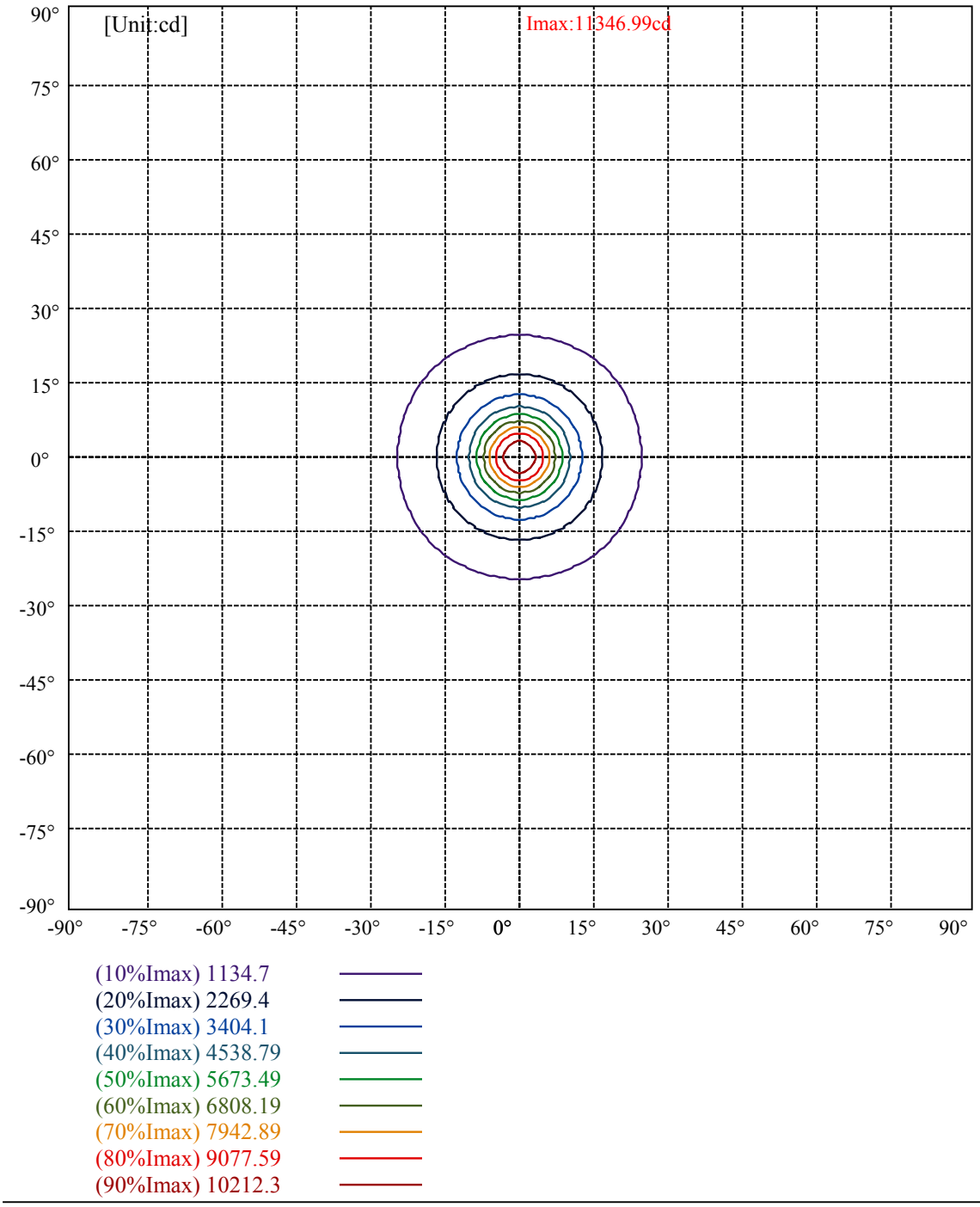
Beam Angle(50%Imax):C0/180Left:8.5 Right:8.5
:C90/270Left:8.5 Right:8.5

Lux distance Curve



Equipment: GMS1980 Date: 2024/2/28 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

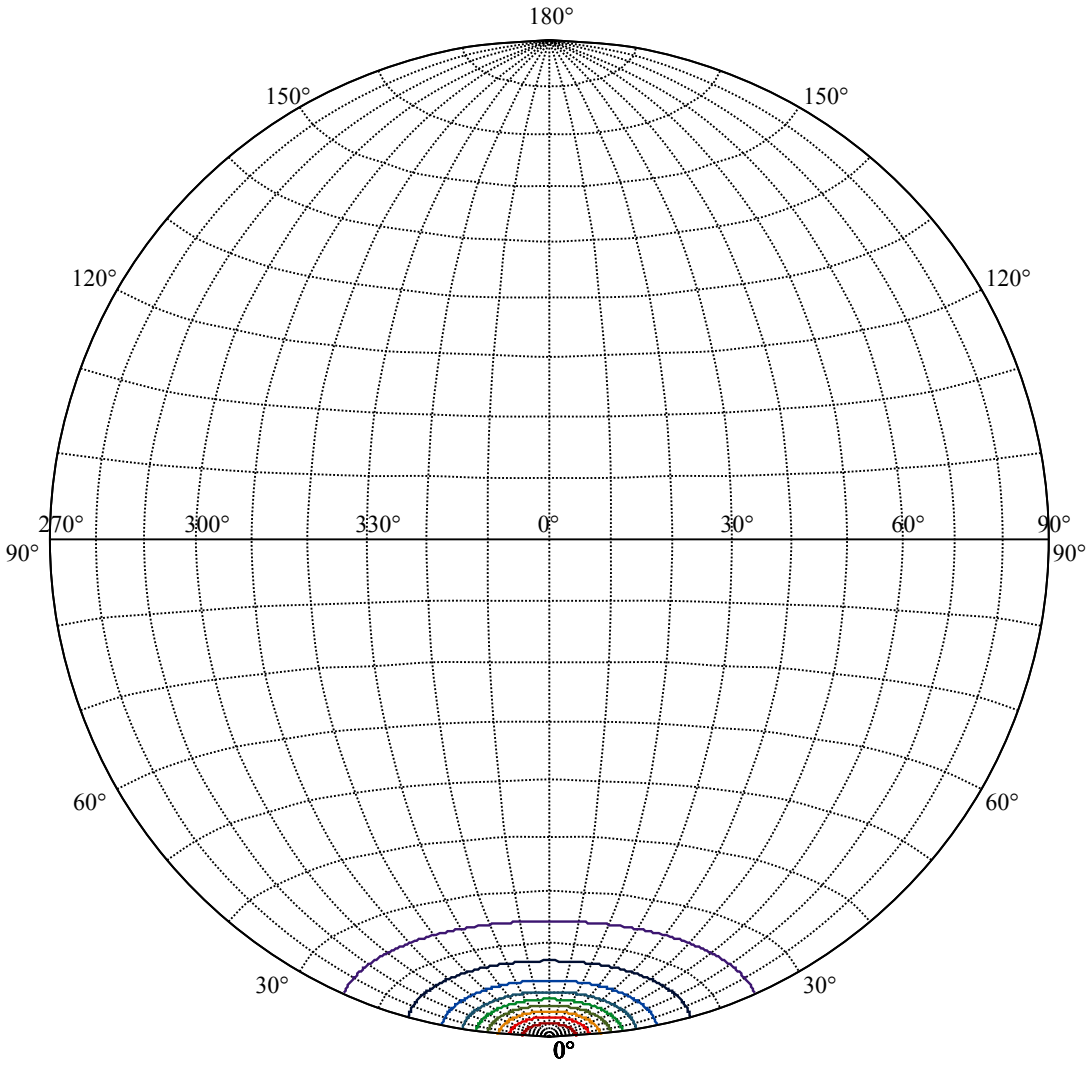


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/2/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

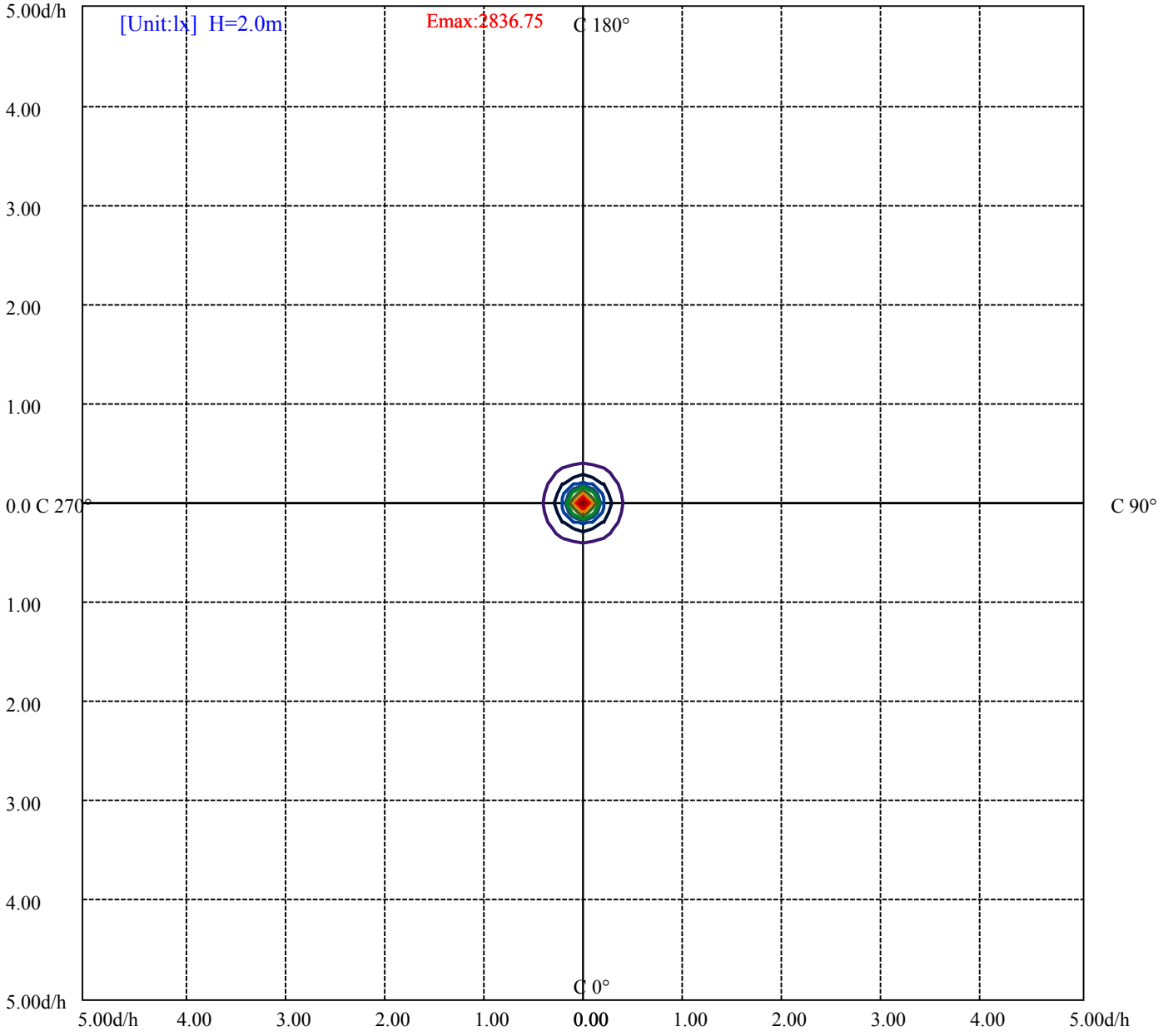
Imax:11346.99

(10%Imax) 1134.7
(20%Imax) 2269.4
(30%Imax) 3404.1
(40%Imax) 4538.79
(50%Imax) 5673.49
(60%Imax) 6808.19
(70%Imax) 7942.89
(80%Imax) 9077.59
(90%Imax) 10212.3

Equipment: GMS1980 Date: 2024/2/28 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

NT 3-2832-L

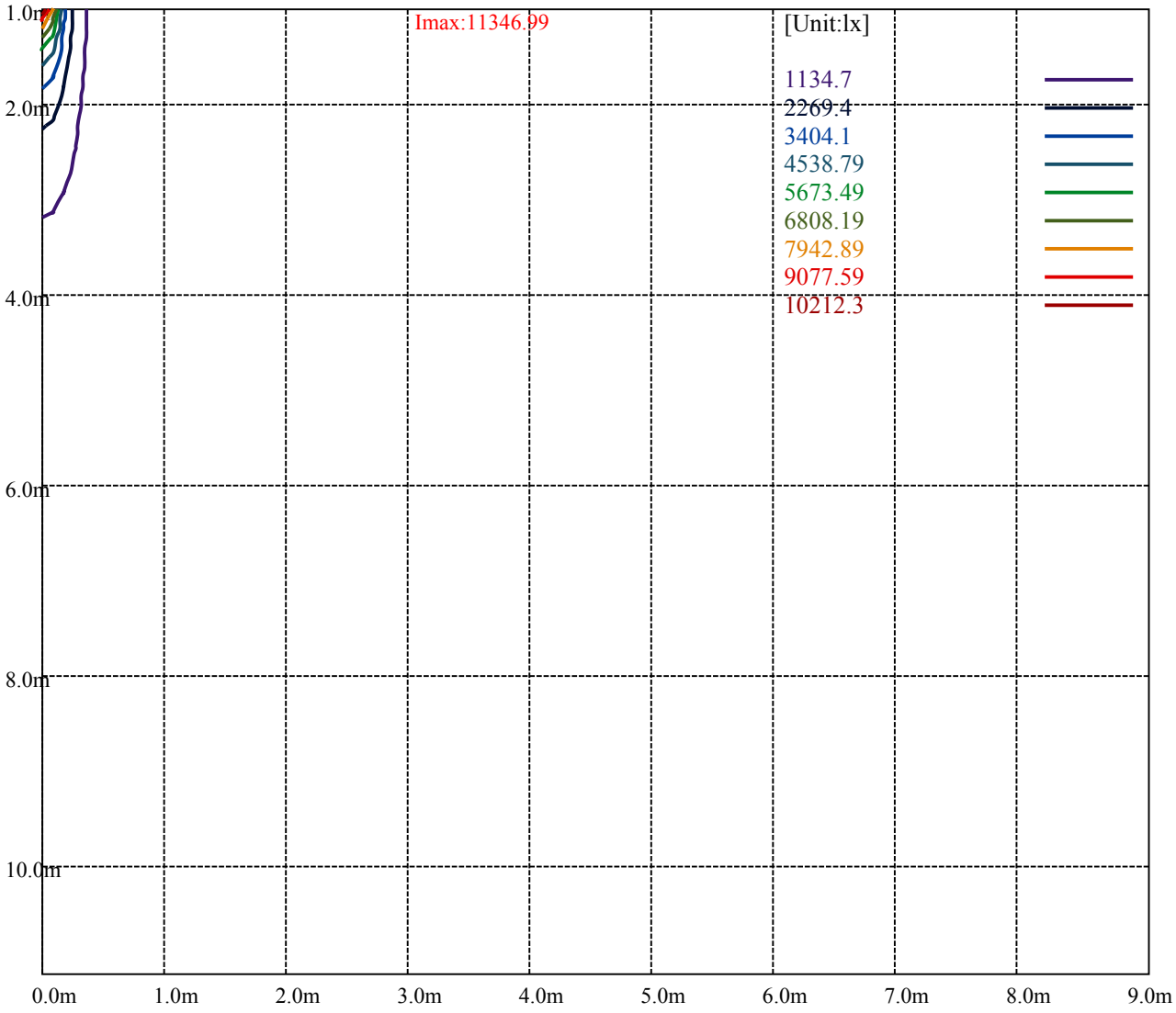
ISO illuminance diagram



(10%Emax) 283.675
(20%Emax) 567.3475
(30%Emax) 851.0225
(40%Emax) 1134.698
(50%Emax) 1418.373
(60%Emax) 1702.045
(70%Emax) 1985.72
(80%Emax) 2269.395
(90%Emax) 2553.075

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2024/2/28
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/2/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

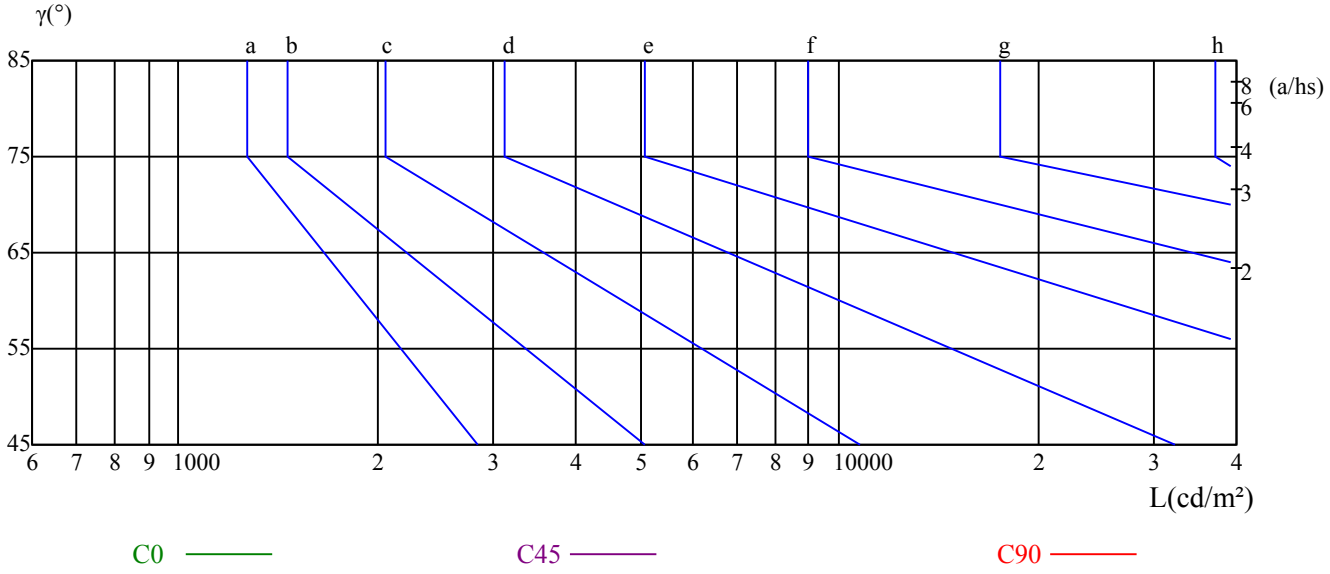
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

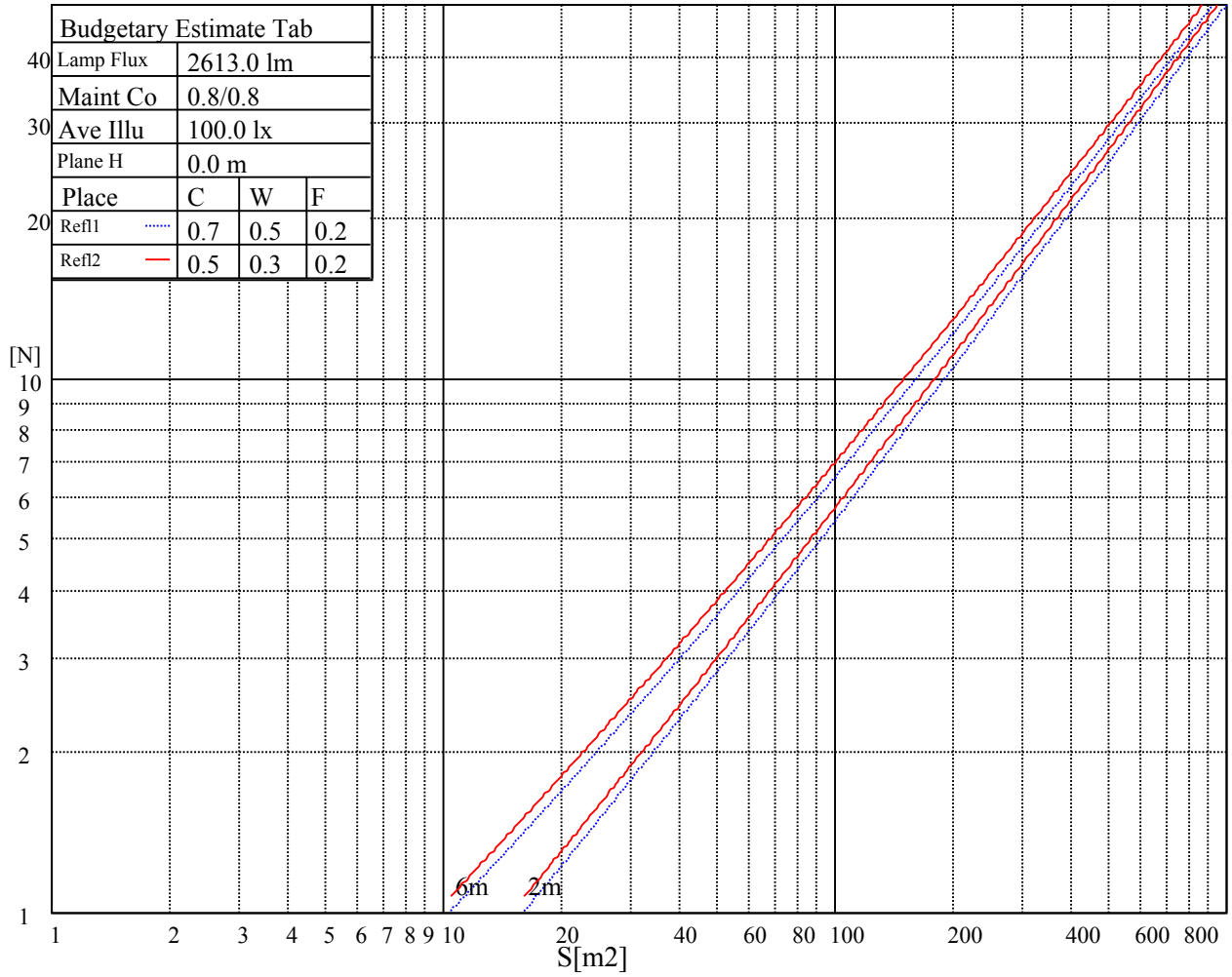
Luminance Limitting Curve



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

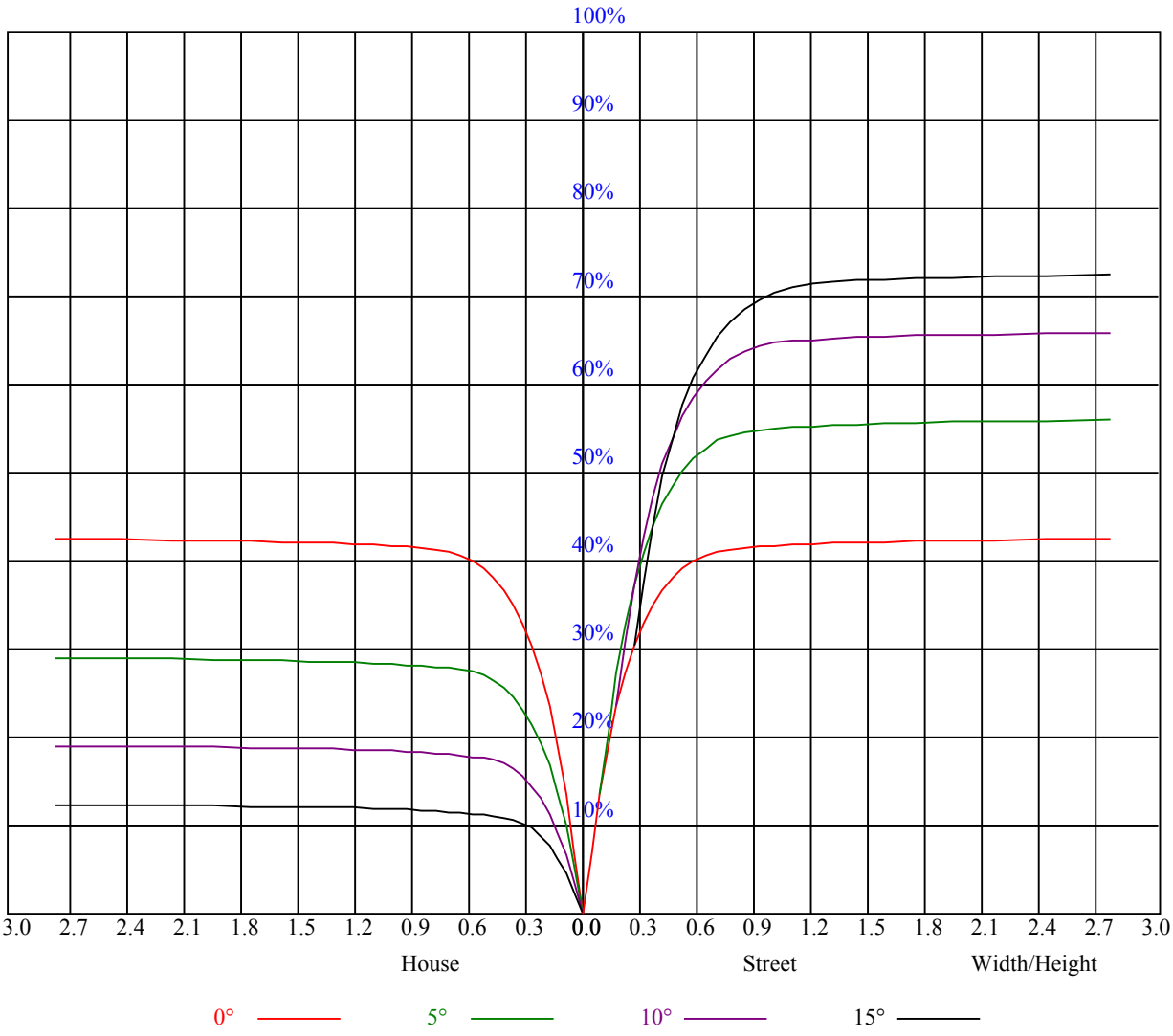


Equipment: GMS1980 Date: 2024/2/28 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

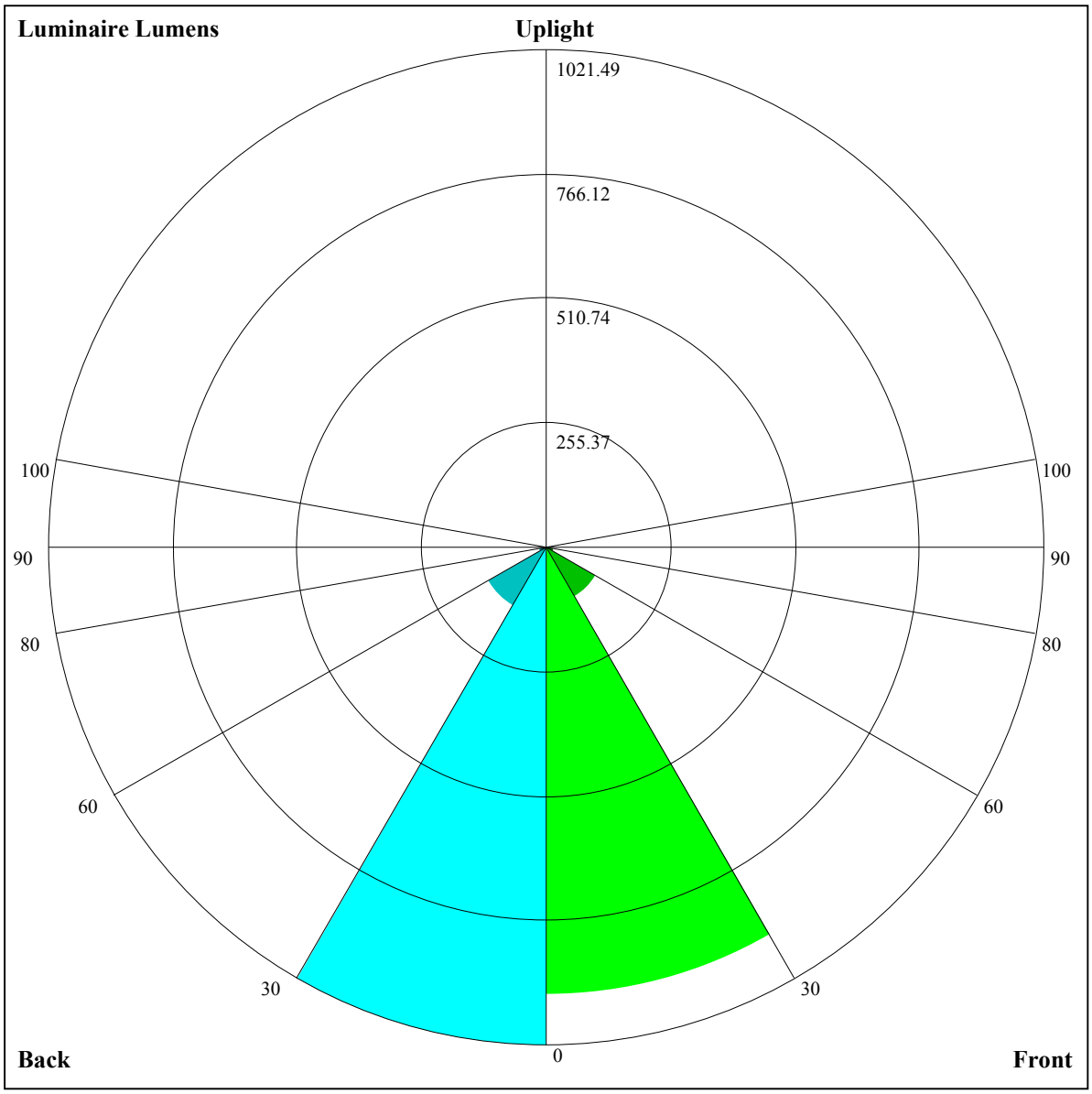
Utilization factor table for indoor luminaire

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	1.02	1.02	1.02	1.00	1.00	1.00	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.86
1	0.96	0.94	0.92	0.94	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.84	0.83	0.81
2	0.90	0.87	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.80	0.81	0.80	0.79	0.77
3	0.86	0.82	0.79	0.85	0.81	0.79	0.82	0.80	0.77	0.80	0.78	0.76	0.79	0.77	0.75	0.74
4	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.73	0.76	0.74	0.72	0.71
5	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.74	0.72	0.69	0.73	0.71	0.69	0.68
6	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
7	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.63
8	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.66	0.64	0.61	0.61
9	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.64	0.61	0.59	0.58
10	0.64	0.61	0.58	0.64	0.60	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.57	0.57

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/2/28	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=917.26,FM=117.06,FH=17.11,FVH=5.73
BL=1021.49,BM=139.54,BH=17.67,BVH=5.82
UL=0,UH=0

BUG Rating:B3-U0-G0

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	11042.67	10486.12	9787.36	8760.29	7857.87	6971.84	5915.51	5160.57	4393.93
45.0	11488.61	11222.92	10746.55	10102.80	9114.35	8234.76	7338.19	6261.97	5471.33
90.0	11303.68	10882.32	10130.30	9379.46	8526.20	7653.05	6573.31	5752.82	5023.63
135.0	11552.99	11445.89	11110.56	10415.31	9691.38	8876.75	8008.28	6911.57	6079.38
180.0	11042.67	11472.81	11561.18	11422.48	11076.61	10373.76	9658.61	8839.88	7938.05
225.0	11488.61	11520.21	11306.61	10880.56	10271.34	9326.79	8463.58	7557.65	6431.68
270.0	11303.68	11510.26	11510.26	11206.53	10734.84	9908.50	9117.86	8261.09	7124.00
315.0	11552.99	11388.54	11011.65	10288.31	9552.10	8714.64	7612.67	6711.42	5857.58
360.0	11042.67	10486.12	9787.36	8760.29	7857.87	6971.84	5915.51	5160.57	4393.93

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3921.07	3524.87	3188.95	2896.34	2585.00	2369.05	2173.00	1958.22	1809.57
45.0	4792.47	4127.07	3706.29	3258.01	2961.88	2699.70	2470.88	2215.14	2037.81
90.0	4426.70	3839.72	3455.23	3051.42	2784.56	2548.13	2283.02	2096.33	1933.06
135.0	5316.83	4669.57	4034.01	3620.26	3269.13	2899.85	2642.35	2415.28	2169.49
180.0	6807.98	5975.21	5208.56	4426.12	3937.45	3438.84	3117.55	2838.98	2541.11
225.0	5601.83	4740.97	4188.51	3743.74	3283.17	2984.12	2714.92	2479.66	2278.92
270.0	6244.99	5457.87	4626.85	4094.88	3651.86	3284.93	2973.59	2640.01	2411.77
315.0	5096.78	4336.58	3860.20	3466.35	3134.52	2783.97	2540.52	2325.74	2090.48
360.0	3921.07	3524.87	3188.95	2896.34	2585.00	2369.05	2173.00	1958.22	1809.57

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1675.56	1553.25	1412.79	1144.47	1144.47	1065.23	966.44	886.26	840.97
45.0	1884.48	1744.61	1617.04	1471.90	1364.80	1258.88	1123.11	1014.25	913.59
90.0	1787.34	1619.96	1500.58	1387.04	1143.76	1143.76	1038.95	949.82	890.30
135.0	1998.02	1845.27	1674.39	1550.90	1436.20	1329.10	1198.60	1094.43	991.43
180.0	2333.35	2144.91	1968.76	1810.16	1647.47	1527.50	1412.21	1300.43	1174.02
225.0	2053.61	1887.99	1742.27	1603.58	1452.00	1151.49	1151.49	1098.29	997.52
270.0	2213.38	1988.65	1826.55	1681.41	1525.74	1413.38	1279.95	1176.95	1072.19
315.0	1920.18	1770.36	1604.75	1486.53	1378.26	1144.58	1144.58	1043.11	950.93
360.0	1675.56	1553.25	1412.79	1144.47	1144.47	1065.23	966.44	886.26	840.97

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	797.25	737.09	657.73	536.89	431.84	328.49	236.20	143.73	101.77
45.0	860.92	817.62	745.64	665.46	575.92	479.36	358.22	311.40	311.40
90.0	835.82	788.42	696.59	612.09	516.11	391.81	295.66	211.73	126.94
135.0	918.28	856.83	817.03	759.10	658.44	565.97	441.32	341.83	295.01
180.0	1069.85	954.56	894.87	842.78	798.89	733.35	647.32	524.42	417.91
225.0	905.58	855.77	819.84	761.38	687.93	598.28	501.89	401.87	282.20
270.0	973.29	891.36	845.12	804.16	739.78	635.03	542.56	445.41	326.61
315.0	876.32	834.30	790.87	723.98	613.67	516.46	413.93	291.79	206.35
360.0	797.25	737.09	657.73	536.89	431.84	328.49	236.20	143.73	101.77

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	83.45	76.90	72.04	66.60	61.98	58.29	53.61	50.50	47.58
45.0	119.62	89.48	81.46	75.20	69.47	64.61	60.34	55.42	52.20
90.0	92.29	82.11	75.20	69.17	64.43	59.99	56.42	52.03	48.81
135.0	295.01	100.78	83.80	77.13	71.87	66.19	61.51	58.00	54.07
180.0	316.08	316.08	133.84	95.92	82.28	76.02	69.88	65.43	60.69
225.0	197.40	131.27	92.47	83.80	77.43	71.40	66.36	60.86	56.94
270.0	303.79	303.79	99.84	84.51	78.24	72.22	67.77	62.97	59.17
315.0	137.18	91.53	81.11	75.20	69.93	65.66	61.27	57.53	53.08
360.0	83.45	76.90	72.04	66.60	61.98	58.29	53.61	50.50	47.58

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	45.06	42.49	40.50	39.03	37.63	36.40	35.52	34.88	33.83
45.0	48.22	45.53	43.19	41.20	39.39	37.57	36.58	35.64	34.82
90.0	46.00	42.72	40.79	38.62	37.40	36.05	35.11	34.53	33.83
135.0	50.10	47.17	43.83	41.67	39.62	37.81	36.52	35.64	34.65
180.0	56.01	52.55	48.46	45.94	43.42	41.38	39.09	37.75	36.34
225.0	53.55	50.21	46.82	44.36	42.25	40.56	38.57	37.34	36.34
270.0	54.72	51.50	48.57	45.94	43.31	41.32	39.80	37.86	36.87
315.0	49.92	47.34	44.89	42.37	40.38	38.68	37.22	36.40	35.05
360.0	45.06	42.49	40.50	39.03	37.63	36.40	35.52	34.88	33.83

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	33.12	31.89	30.90	29.44	28.03	26.28	24.81	23.41	21.77
45.0	33.88	33.12	32.07	31.19	30.02	28.32	26.92	25.11	23.88
90.0	33.01	32.36	31.25	30.55	28.97	27.45	25.63	24.29	22.06
135.0	34.18	33.36	32.89	31.60	31.02	29.50	28.27	26.28	24.64
180.0	35.52	34.41	33.88	33.01	32.19	31.02	30.31	28.44	27.39
225.0	35.46	34.29	33.47	32.48	31.43	30.31	28.38	27.27	25.34
270.0	35.82	35.05	34.06	33.18	32.01	31.19	29.79	28.50	26.57
315.0	34.53	33.83	32.89	31.78	30.90	29.50	28.03	26.28	24.93
360.0	33.12	31.89	30.90	29.44	28.03	26.28	24.81	23.41	21.77

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.31	18.96	18.20	17.21	16.39	15.86	15.33	14.92	14.51
45.0	21.77	20.72	19.31	18.20	17.26	16.50	15.98	15.45	14.98
90.0	20.83	19.43	18.02	17.09	16.21	15.68	15.04	14.63	14.28
135.0	23.23	21.07	19.78	18.20	17.32	16.33	15.80	15.04	14.69
180.0	25.52	23.88	22.06	20.78	19.43	18.02	17.15	16.27	15.80
225.0	23.76	22.00	20.78	19.31	18.14	17.15	16.44	15.86	15.27
270.0	25.11	23.47	21.83	20.25	18.84	17.97	16.74	16.15	15.45
315.0	23.12	21.36	19.90	18.73	17.44	16.56	15.86	15.33	14.92
360.0	20.31	18.96	18.20	17.21	16.39	15.86	15.33	14.92	14.51

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.16	13.81	13.58	13.23	13.11	13.11	13.17	12.93	12.29
45.0	14.57	14.16	13.87	13.58	13.23	12.99	12.70	12.29	11.94
90.0	13.99	13.64	13.34	13.05	12.70	12.47	12.11	11.82	11.53
135.0	14.34	13.99	13.64	13.34	13.11	12.82	12.52	12.23	11.88
180.0	15.16	14.75	14.46	14.05	13.69	13.40	13.11	12.76	12.41
225.0	14.86	14.51	14.16	13.81	13.40	13.05	12.70	12.41	12.00
270.0	15.04	14.63	14.22	13.93	13.58	13.23	12.82	12.58	12.23
315.0	14.57	14.16	13.81	13.52	13.23	12.87	12.52	12.29	11.94
360.0	14.16	13.81	13.58	13.23	13.11	13.11	13.17	12.93	12.29

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.29	10.77	10.53	10.36	10.12	9.89	9.71	9.66	9.71
45.0	11.53	11.12	10.83	10.59	10.30	10.12	9.89	9.71	9.60
90.0	11.18	10.94	10.65	10.42	10.18	10.01	9.77	9.60	9.60
135.0	11.59	11.35	11.00	10.77	10.53	10.24	10.01	9.83	9.60
180.0	12.11	11.82	11.76	11.18	10.83	10.59	10.36	10.12	9.89
225.0	11.76	11.47	11.12	10.83	10.59	10.36	10.12	9.89	9.71
270.0	11.94	11.59	11.29	11.00	10.71	10.48	10.24	10.01	9.77
315.0	11.65	11.29	11.00	10.77	10.53	10.24	10.01	9.77	9.60
360.0	11.29	10.77	10.53	10.36	10.12	9.89	9.71	9.66	9.71

Intensity data(cd)

C/γ(°)	90.0
0.0	9.66
45.0	9.60
90.0	9.54
135.0	9.66
180.0	9.71
225.0	9.60
270.0	9.60
315.0	9.60
360.0	9.66