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

NT

Client:
LumCAT: 1-1207-L
Luminaire: 92.70.410.00
Report No: 2024731-B012
Ballast type: AC

Test No: 2024731-C012	Voltage(V): 35.040
LampCAT: LUXEON CoB 1203 LES9	Current(A): 0.300
Lamp flux(lm): 1274.0	Power (W): 10.512
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1174.67, Efficiency(%): 92.20% , Luminous Efficacy(lm/W): 111.75
Central intensity(cd): 3891.951, Maximum intensity(cd): 3891.951
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=27.2
[C90/270]Total=27.2
Field angle(10%Imax): [C0/180]Total=58.2
[C90/270]Total=58.2
Maximum s/h(1/2): C0_180=0.46 C90_270=0.46
Maximum s/h(1/4): C0_180=0.45 C90_270=0.45
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.20%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.002%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3891.951	0.000	0	0.00%	0.00%
1.0	3879.222	3.718	3.718	0.29%	0.32%
2.0	3851.644	11.096	14.814	0.87%	1.26%
3.0	3805.704	18.314	33.128	1.44%	2.82%
4.0	3732.550	25.233	58.361	1.98%	4.97%
5.0	3631.014	31.678	90.039	2.49%	7.67%
6.0	3512.213	37.540	127.578	2.95%	10.86%
7.0	3370.077	42.718	170.297	3.35%	14.50%
8.0	3198.386	47.009	217.306	3.69%	18.50%
9.0	3009.432	50.311	267.617	3.95%	22.78%
10.0	2799.190	52.566	320.183	4.13%	27.26%
11.0	2583.607	53.785	373.968	4.22%	31.84%
12.0	2351.931	53.953	427.921	4.23%	36.43%
13.0	2102.845	52.867	480.788	4.15%	40.93%
14.0	1854.051	50.648	531.435	3.98%	45.24%
15.0	1599.098	47.406	578.842	3.72%	49.28%
16.0	1371.936	43.534	622.376	3.42%	52.98%
17.0	1238.329	40.649	663.025	3.19%	56.44%
18.0	1092.995	38.438	701.463	3.02%	59.72%
19.0	963.463	35.778	737.241	2.81%	62.76%
20.0	860.712	33.387	770.629	2.62%	65.60%
21.0	773.528	31.381	802.01	2.46%	68.28%
22.0	706.315	29.738	831.748	2.33%	70.81%
23.0	655.518	28.575	860.323	2.24%	73.24%
24.0	612.884	27.732	888.054	2.18%	75.60%
25.0	572.248	26.947	915.002	2.12%	77.89%
26.0	534.427	26.123	941.125	2.05%	80.12%
27.0	493.747	25.155	966.279	1.97%	82.26%
28.0	448.312	23.851	990.13	1.87%	84.29%
29.0	392.905	22.009	1012.139	1.73%	86.16%
30.0	338.092	19.737	1031.876	1.55%	87.84%
31.0	288.691	17.442	1049.318	1.37%	89.33%
32.0	251.705	15.482	1064.8	1.22%	90.65%
33.0	216.636	13.797	1078.597	1.08%	91.82%
34.0	140.842	10.818	1089.416	0.85%	92.74%
35.0	107.264	7.705	1097.121	0.60%	93.40%
36.0	80.081	5.965	1103.086	0.47%	93.91%
37.0	62.934	4.664	1107.75	0.37%	94.30%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	52.963	3.868	1111.619	0.30%	94.63%
39.0	46.620	3.399	1115.018	0.27%	94.92%
40.0	42.026	3.092	1118.11	0.24%	95.19%
41.0	37.549	2.834	1120.943	0.22%	95.43%
42.0	34.177	2.606	1123.549	0.20%	95.65%
43.0	31.046	2.416	1125.965	0.19%	95.85%
44.0	28.449	2.246	1128.211	0.18%	96.04%
45.0	25.977	2.092	1130.302	0.16%	96.22%
46.0	23.489	1.935	1132.237	0.15%	96.39%
47.0	21.470	1.788	1134.025	0.14%	96.54%
48.0	19.854	1.671	1135.696	0.13%	96.68%
49.0	18.603	1.579	1137.275	0.12%	96.82%
50.0	17.352	1.499	1138.774	0.12%	96.94%
51.0	16.416	1.429	1140.203	0.11%	97.07%
52.0	15.669	1.377	1141.579	0.11%	97.18%
53.0	14.974	1.333	1142.912	0.10%	97.30%
54.0	14.316	1.291	1144.203	0.10%	97.41%
55.0	13.724	1.252	1145.455	0.10%	97.51%
56.0	13.204	1.217	1146.672	0.10%	97.62%
57.0	12.721	1.185	1147.857	0.09%	97.72%
58.0	12.158	1.151	1149.008	0.09%	97.82%
59.0	11.675	1.114	1150.122	0.09%	97.91%
60.0	11.236	1.082	1151.204	0.08%	98.00%
61.0	10.841	1.054	1152.258	0.08%	98.09%
62.0	10.476	1.027	1153.285	0.08%	98.18%
63.0	10.088	1.000	1154.285	0.08%	98.26%
64.0	9.766	0.974	1155.26	0.08%	98.35%
65.0	9.437	0.950	1156.21	0.07%	98.43%
66.0	9.151	0.927	1157.137	0.07%	98.51%
67.0	8.808	0.903	1158.04	0.07%	98.58%
68.0	8.559	0.880	1158.92	0.07%	98.66%
69.0	8.296	0.860	1159.78	0.07%	98.73%
70.0	8.091	0.842	1160.621	0.07%	98.80%
71.0	7.937	0.828	1161.45	0.07%	98.87%
72.0	7.754	0.816	1162.266	0.06%	98.94%
73.0	7.608	0.803	1163.069	0.06%	99.01%
74.0	7.425	0.790	1163.859	0.06%	99.08%
75.0	7.257	0.776	1164.635	0.06%	99.15%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.096	0.762	1165.397	0.06%	99.21%
77.0	6.935	0.748	1166.145	0.06%	99.27%
78.0	6.781	0.734	1166.879	0.06%	99.34%
79.0	6.635	0.721	1167.6	0.06%	99.40%
80.0	6.489	0.708	1168.308	0.06%	99.46%
81.0	6.342	0.694	1169.002	0.05%	99.52%
82.0	6.218	0.681	1169.683	0.05%	99.58%
83.0	6.094	0.669	1170.352	0.05%	99.63%
84.0	5.955	0.656	1171.008	0.05%	99.69%
85.0	5.860	0.645	1171.653	0.05%	99.74%
86.0	5.728	0.633	1172.287	0.05%	99.80%
87.0	5.582	0.619	1172.905	0.05%	99.85%
88.0	5.435	0.603	1173.509	0.05%	99.90%
89.0	5.282	0.587	1174.096	0.05%	99.95%
90.0	5.179	0.574	1174.67	0.05%	100.00%

Zonal flux distribution table

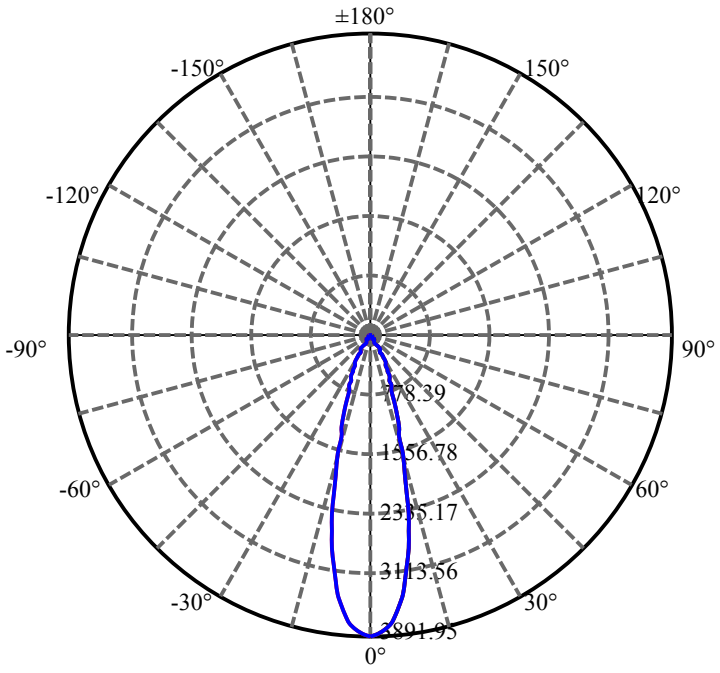
ZONAL LUMEN SUMMARY

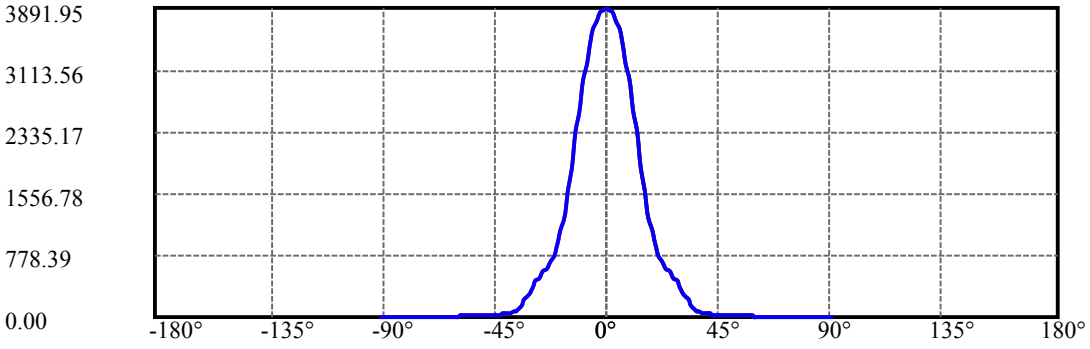
Zone	Lumens	%Lamp	%Fixt
0-30	1031.88	80.99%	87.84%
0-40	1118.11	87.76%	95.19%
0-60	1151.20	90.36%	98.00%
0-90	1174.10	92.16%	99.95%
0-120	1174.10	92.16%	99.95%
0-180	1174.67	92.20%	100.00%
60-90	22.89	1.80%	1.95%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.95	939.74	73.76%	80.00%

ZONAL LUMEN SUMMARY

0-10	320.18
10-20	450.45
20-30	261.25
30-40	86.23
40-50	20.66
50-60	12.43
60-70	9.42
70-80	7.69
80-90	5.79
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):

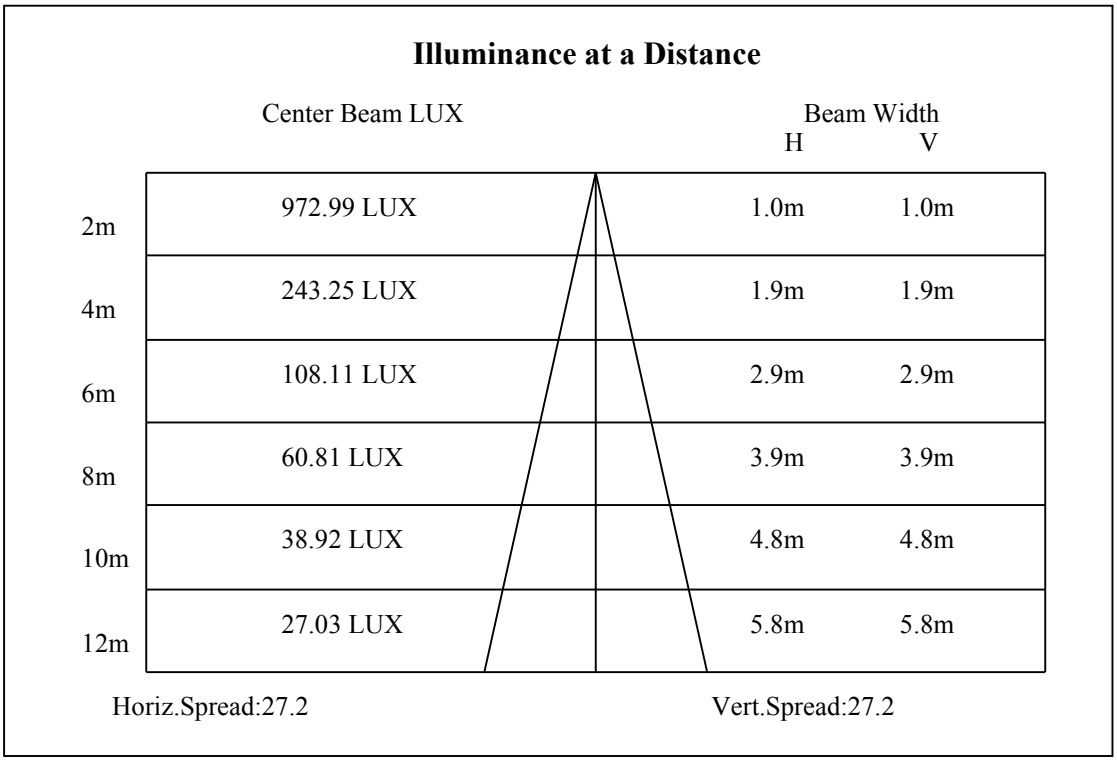
C0/C180:

C90/C270:

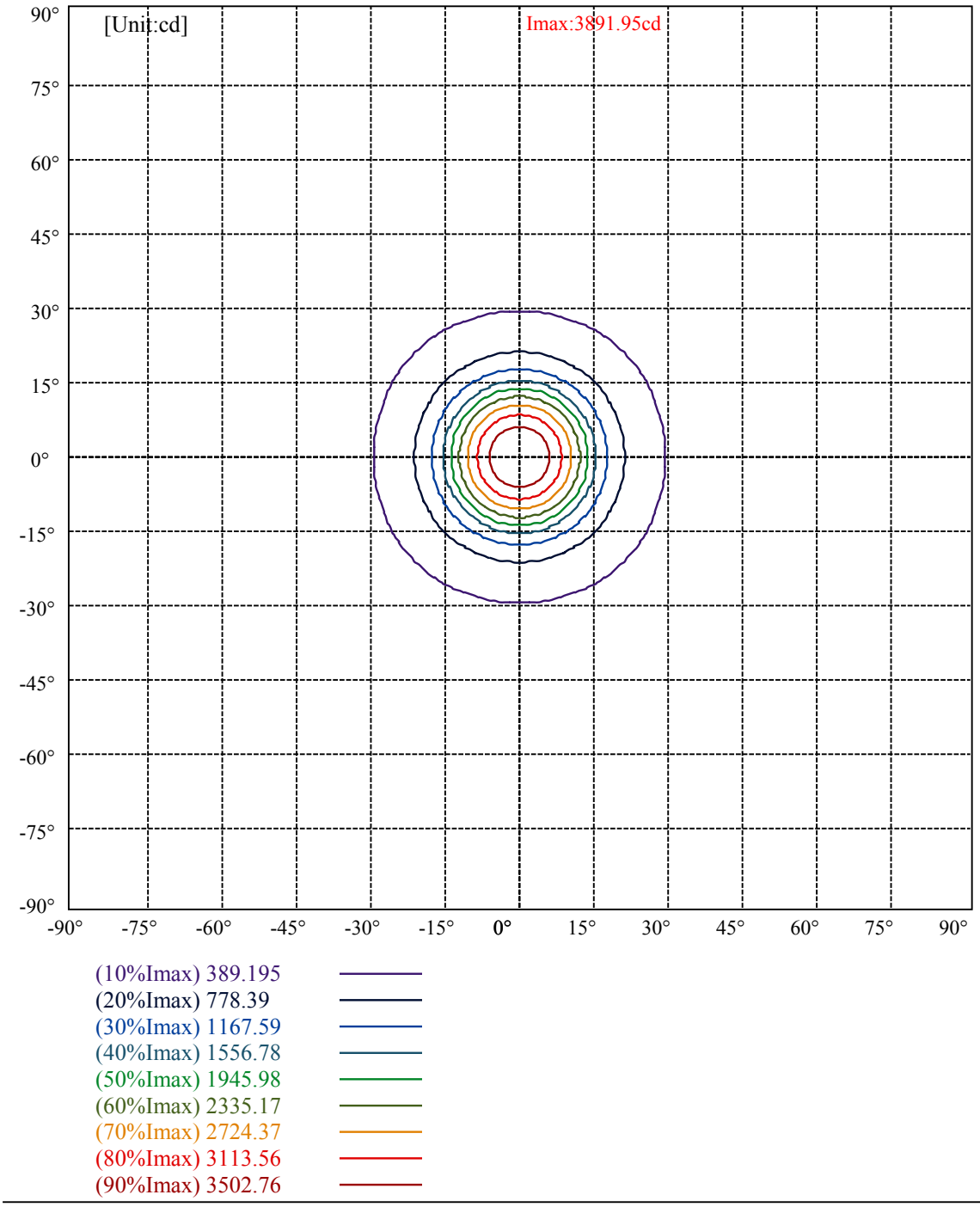
Field angle(10%Imax):C0/180Left:29.1 Right:29.1
:C90/270Left:29.1 Right:29.1

Beam Angle(50%Imax):C0/180Left:13.6 Right:13.6
:C90/270Left:13.6 Right:13.6

Lux distance Curve



ISO-Intensity(V-H)

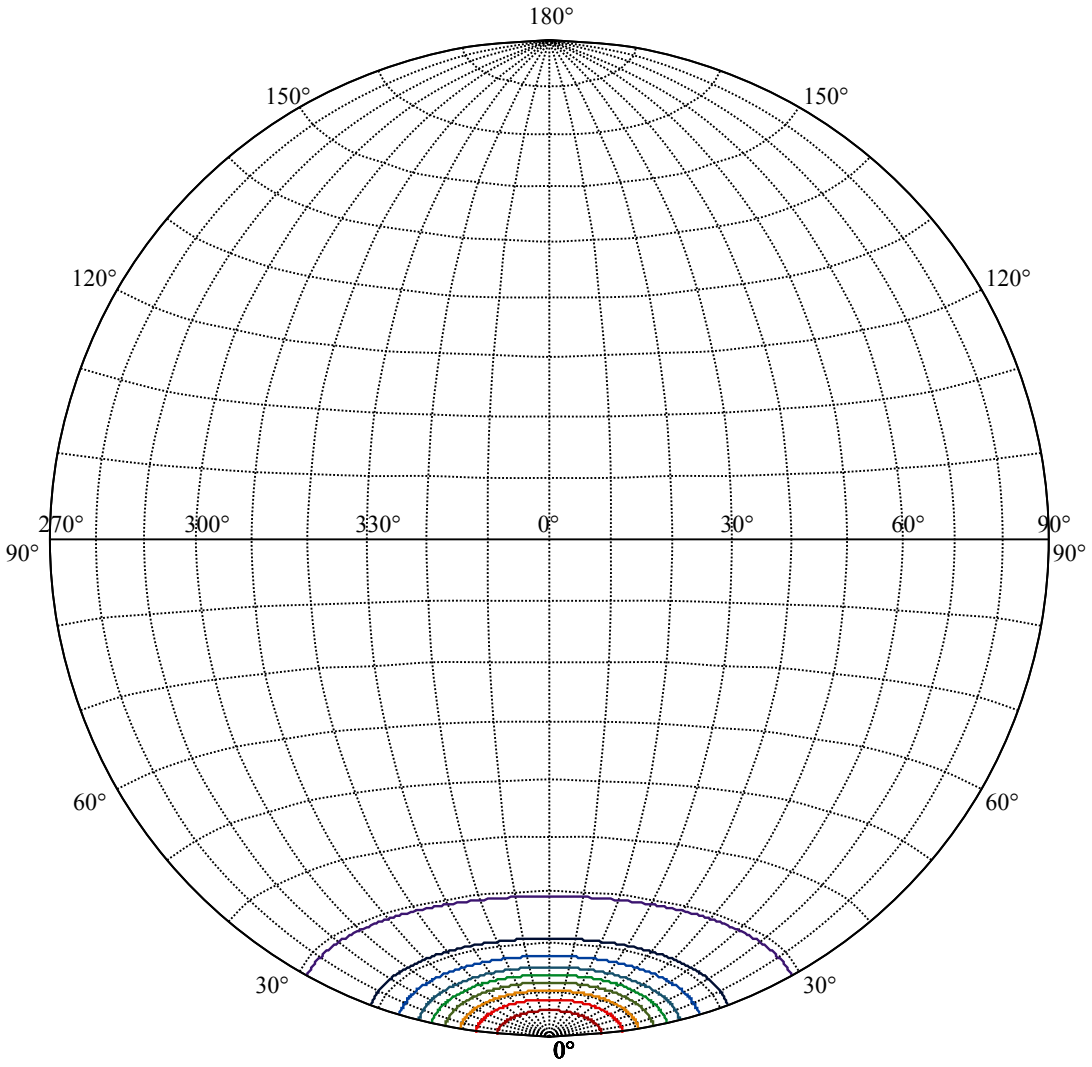


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/7/31
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:3891.95

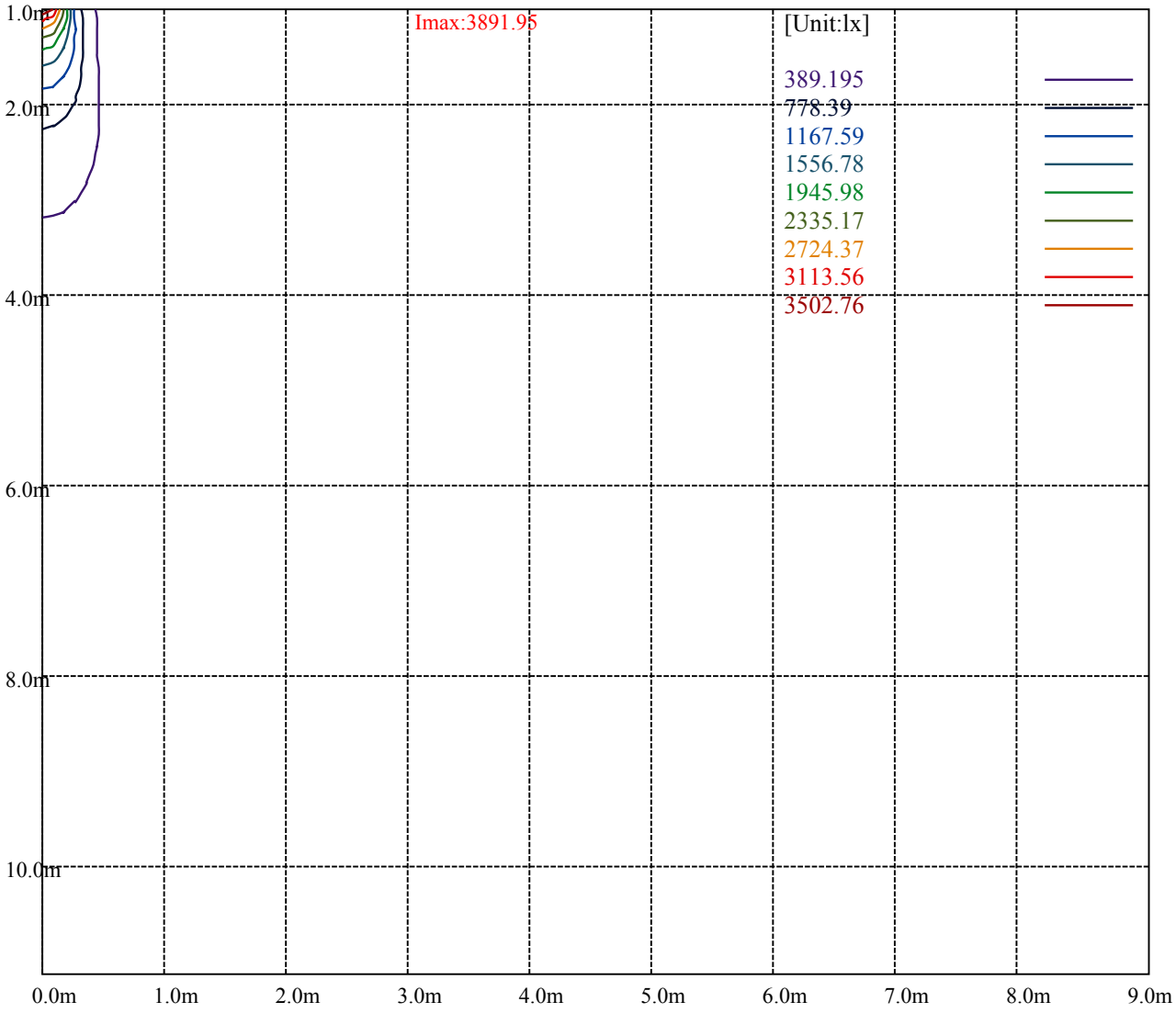
(10%Imax) 389.195
(20%Imax) 778.39
(30%Imax) 1167.59
(40%Imax) 1556.78
(50%Imax) 1945.98
(60%Imax) 2335.17
(70%Imax) 2724.37
(80%Imax) 3113.56
(90%Imax) 3502.76

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/7/31
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/7/31
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 1-1207-L

Luminance Limitting Curve(no luminous side)

Luminance Table

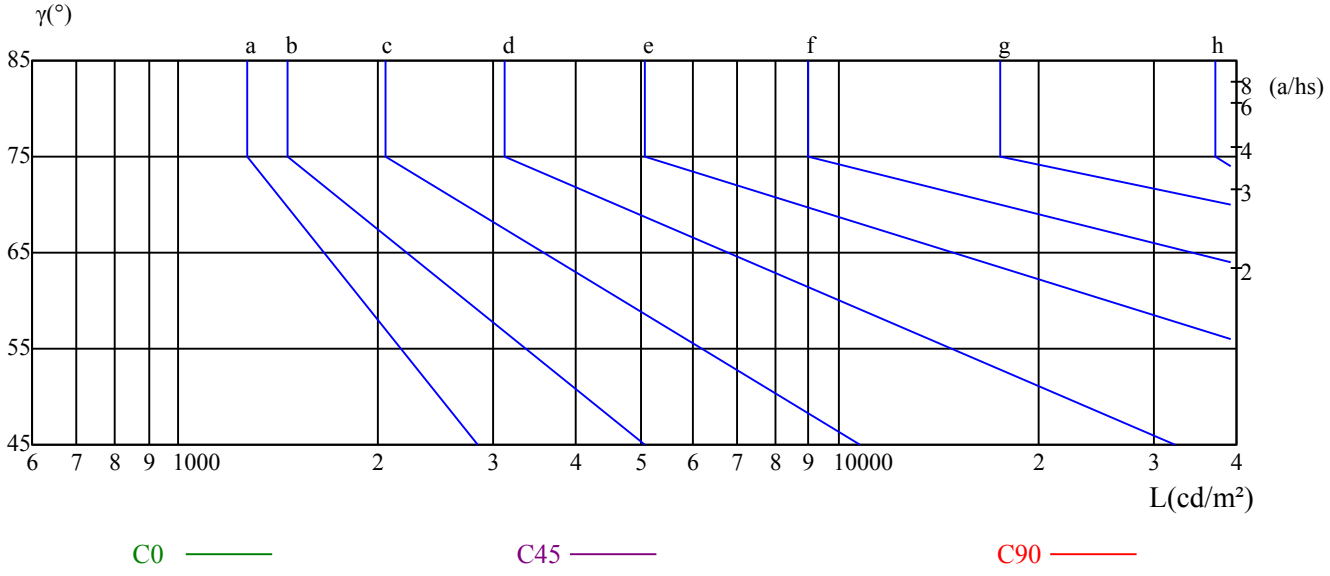
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

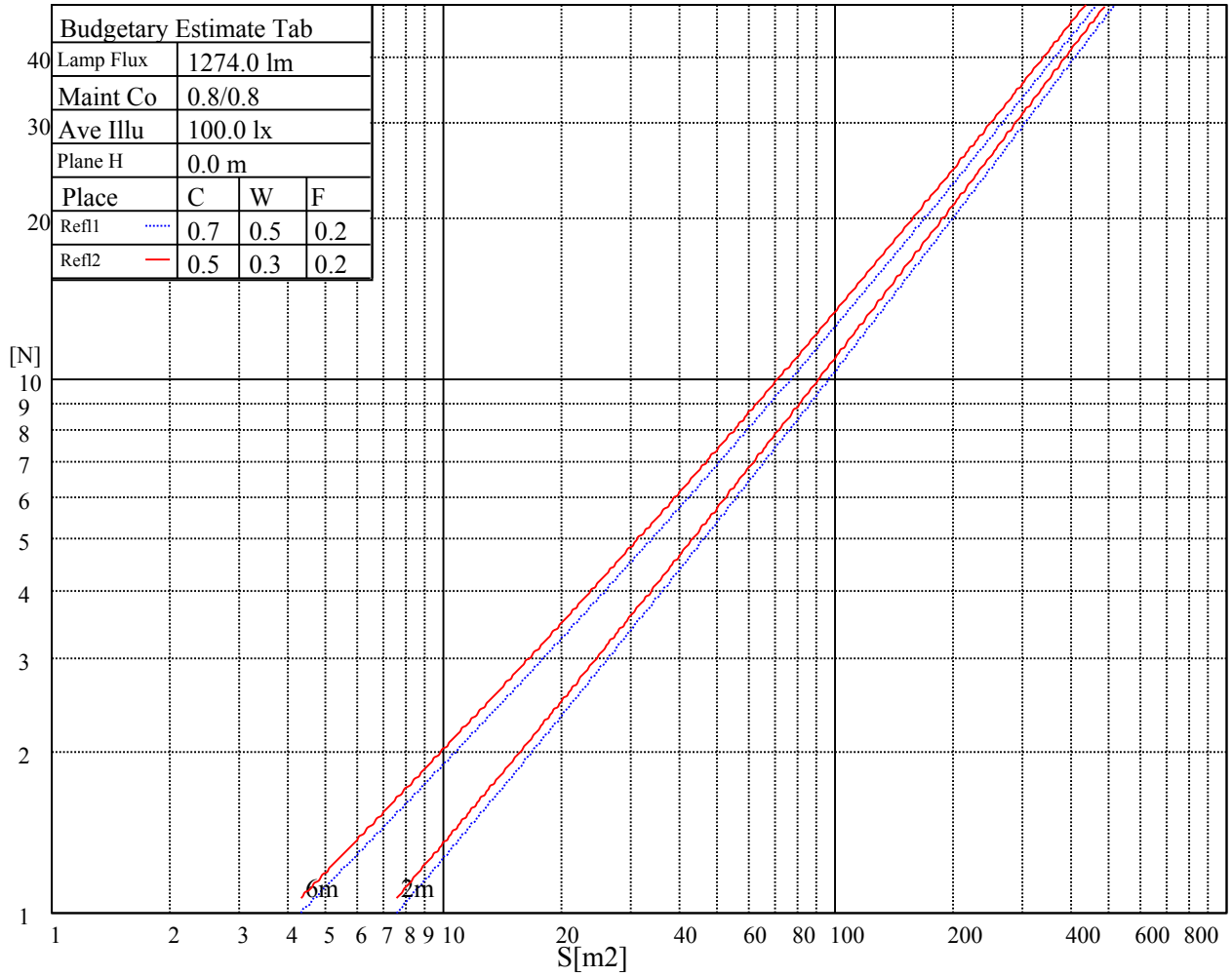
Luminance Limitting Curve



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

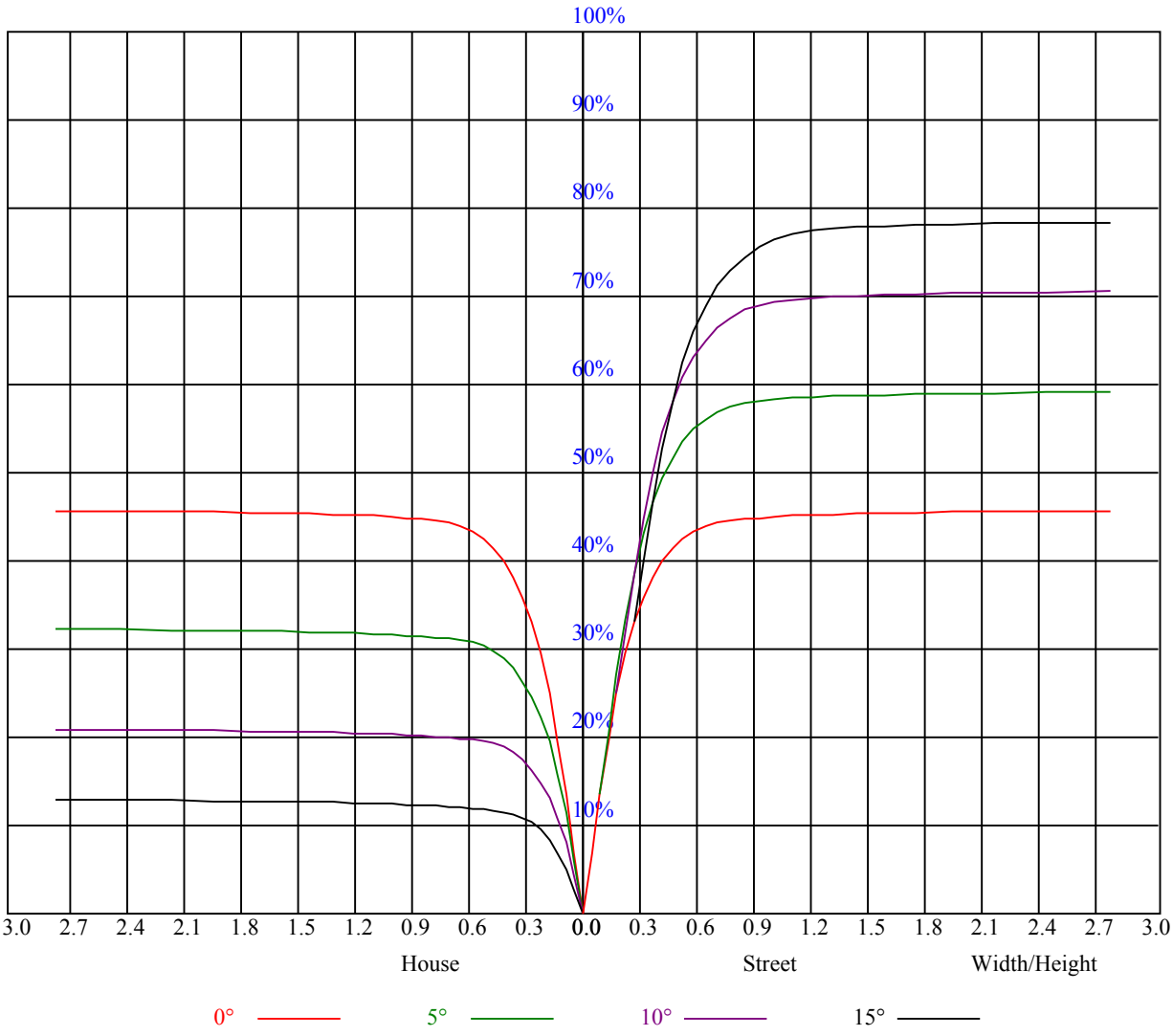


Equipment: GMS1980 Date: 2024/7/31 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

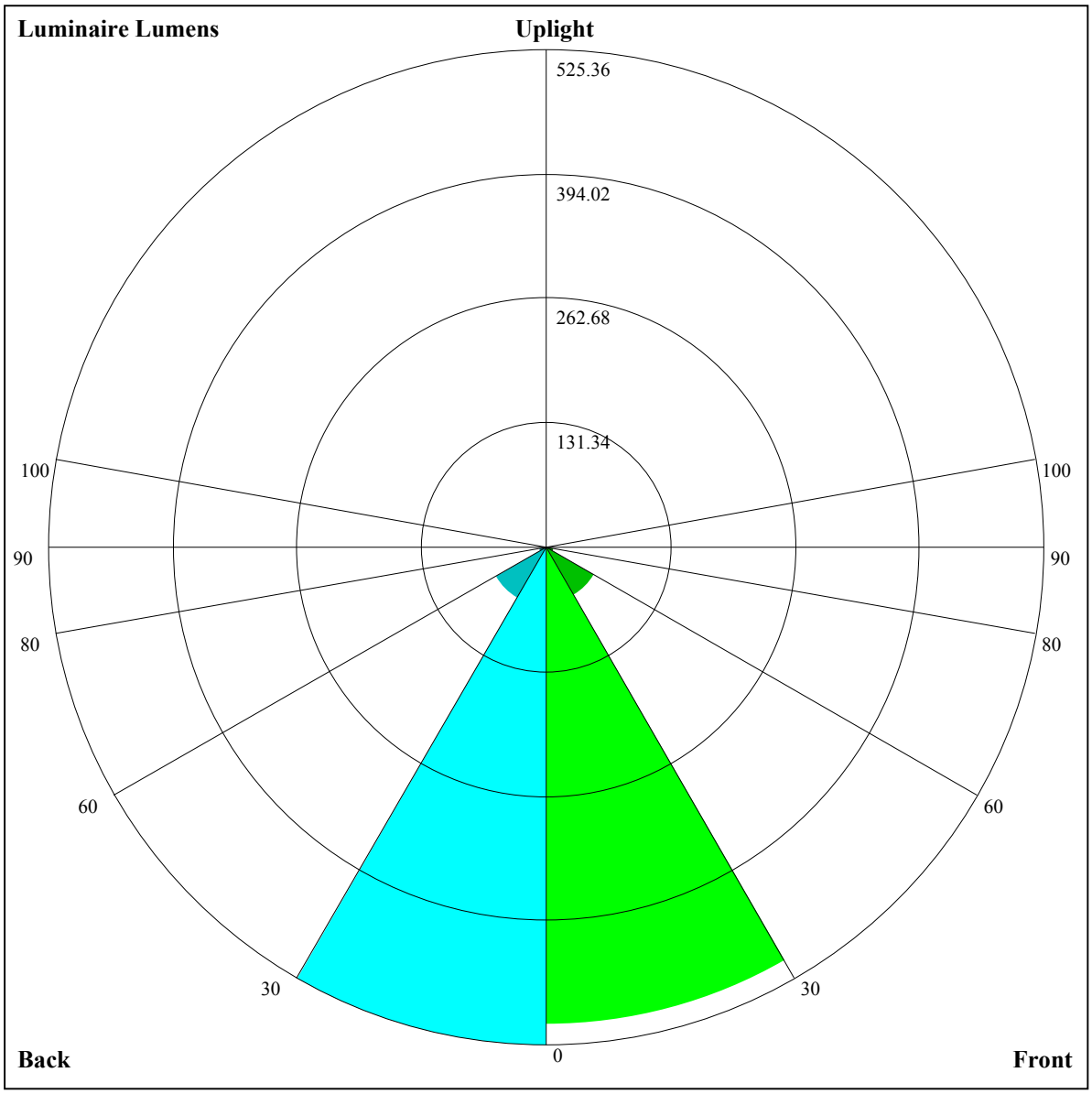
Utilization factor table for indoor luminaire

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	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.87
2	0.97	0.94	0.91	0.96	0.93	0.90	0.93	0.90	0.88	0.90	0.88	0.86	0.88	0.86	0.85	0.83
3	0.92	0.88	0.85	0.91	0.87	0.85	0.89	0.86	0.83	0.86	0.84	0.82	0.84	0.82	0.81	0.79
4	0.88	0.84	0.80	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.82	0.79	0.77	0.76
5	0.84	0.79	0.76	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.73
6	0.80	0.76	0.73	0.80	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
7	0.77	0.73	0.70	0.77	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.74	0.71	0.68	0.67
8	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.65
9	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63
10	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.67	0.64	0.61	0.60

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/7/31	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=504.65,FM=57.93,FH=8.57,FVH=3.18
BL=525.36,BM=63.06,BH=8.43,BVH=3.16
UL=0,UH=0

BUG Rating:B2-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	3890.05	3864.88	3813.97	3747.25	3655.37	3513.16	3380.90	3200.65	3038.55
45.0	3889.46	3891.22	3884.20	3861.37	3824.50	3757.20	3678.78	3580.47	3412.51
90.0	3894.73	3877.17	3854.94	3810.46	3754.86	3664.74	3512.58	3375.05	3215.28
135.0	3893.56	3895.90	3882.44	3862.54	3809.29	3745.50	3650.11	3500.29	3357.49
180.0	3890.05	3890.05	3880.10	3856.69	3805.78	3737.89	3654.79	3524.28	3387.93
225.0	3889.46	3872.49	3841.48	3791.73	3720.92	3609.14	3486.83	3356.91	3189.53
270.0	3894.73	3891.22	3868.40	3826.84	3733.79	3633.14	3507.31	3366.86	3168.47
315.0	3893.56	3850.84	3787.63	3688.73	3555.89	3387.34	3226.40	3056.10	2817.33
360.0	3890.05	3864.88	3813.97	3747.25	3655.37	3513.16	3380.90	3200.65	3038.55

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2855.37	2596.70	2382.51	2158.95	1883.90	1668.53	1334.96	1137.15	1103.97
45.0	3267.95	3101.75	2913.89	2653.47	2428.74	2202.26	1975.78	1699.55	1494.72
90.0	2989.97	2791.58	2577.97	2349.74	2070.00	1855.22	1648.05	1157.34	1157.34
135.0	3149.15	2967.73	2767.00	2561.00	2287.70	2065.90	1851.71	1641.03	1390.55
180.0	3238.11	3016.31	2812.06	2590.26	2303.50	2067.66	1834.74	1612.35	1368.31
225.0	2964.22	2755.30	2524.13	2239.71	2007.97	1783.82	1363.05	1142.53	1142.53
270.0	2994.65	2805.04	2542.28	2326.33	2113.31	1838.25	1619.38	1420.40	1204.45
315.0	2616.01	2359.10	2149.00	1935.98	1727.64	1350.76	1165.12	1165.12	1044.74
360.0	2855.37	2596.70	2382.51	2158.95	1883.90	1668.53	1334.96	1137.15	1103.97

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	986.81	890.89	810.71	747.22	680.62	637.72	596.87	552.98	515.70
45.0	1307.45	1103.79	968.02	842.20	769.04	709.94	662.53	608.69	570.07
90.0	1088.46	965.50	847.87	771.50	691.09	641.58	597.87	561.41	519.74
135.0	1219.67	1074.53	956.32	842.78	776.07	709.94	666.04	628.59	585.28
180.0	1195.67	1043.51	925.88	819.96	756.17	698.23	643.81	601.67	557.19
225.0	965.27	857.06	773.20	708.82	645.68	604.24	567.43	536.30	499.20
270.0	1058.73	927.64	828.15	739.78	678.33	628.00	590.55	551.93	523.83
315.0	921.90	844.77	775.54	715.96	653.52	614.49	577.97	536.42	504.41
360.0	986.81	890.89	810.71	747.22	680.62	637.72	596.87	552.98	515.70

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	457.00	406.38	355.47	290.68	241.81	195.82	153.45	107.56	79.12
45.0	528.52	482.87	419.66	370.51	320.76	296.18	296.18	165.44	126.23
90.0	480.00	433.36	386.83	325.39	277.69	231.81	188.15	137.06	102.18
135.0	553.10	512.72	451.27	403.28	352.36	302.03	302.03	193.77	153.21
180.0	524.42	485.80	426.69	375.19	326.03	301.45	301.45	168.43	130.97
225.0	459.75	415.16	351.37	301.04	251.12	192.42	151.05	106.16	78.01
270.0	495.16	448.34	402.11	351.78	302.62	302.62	191.43	141.57	107.10
315.0	452.03	401.87	349.85	286.88	237.13	191.31	149.35	106.75	81.29
360.0	457.00	406.38	355.47	290.68	241.81	195.82	153.45	107.56	79.12

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	61.62	53.84	48.22	41.96	37.92	33.59	30.37	27.86	25.11
45.0	88.60	67.65	55.89	47.52	42.72	37.81	34.35	31.60	29.32
90.0	71.40	58.70	52.44	46.17	42.02	38.45	35.23	31.84	29.44
135.0	116.69	81.58	65.49	58.00	52.20	46.06	42.14	37.81	34.82
180.0	98.61	74.15	57.82	51.56	46.53	41.26	37.75	34.00	31.43
225.0	59.17	49.98	44.65	39.27	35.58	32.54	30.14	27.33	25.16
270.0	80.18	62.27	51.56	45.94	40.97	36.75	32.54	29.73	27.27
315.0	64.37	55.30	47.64	42.55	38.27	33.94	30.90	28.21	25.05
360.0	61.62	53.84	48.22	41.96	37.92	33.59	30.37	27.86	25.11

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	22.94	21.24	19.72	18.73	17.85	17.03	16.50	16.04	15.63
45.0	27.10	24.40	22.65	21.19	20.07	18.96	18.20	17.67	17.09
90.0	26.80	24.23	21.59	20.07	18.79	17.38	16.44	15.68	14.81
135.0	32.19	28.85	26.22	23.88	22.00	20.07	18.73	17.67	16.68
180.0	28.97	25.98	23.64	21.77	20.25	18.61	17.50	16.44	15.57
225.0	22.94	20.54	19.08	17.38	16.27	15.33	14.28	13.58	12.93
270.0	24.11	21.77	19.84	17.97	16.74	15.39	14.51	13.69	13.05
315.0	22.77	20.89	19.02	17.85	16.85	16.04	15.16	14.57	14.05
360.0	22.94	21.24	19.72	18.73	17.85	17.03	16.50	16.04	15.63

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	15.27	14.86	14.57	14.16	13.40	12.82	12.23	11.70	11.29
45.0	16.68	16.21	15.80	15.33	14.46	13.81	13.23	12.58	12.00
90.0	14.16	13.46	12.93	12.52	12.06	11.53	11.12	10.77	10.48
135.0	15.63	14.86	14.10	13.34	12.82	12.11	11.70	11.29	10.89
180.0	14.57	13.87	13.28	12.58	12.11	11.70	11.18	10.77	10.42
225.0	12.35	11.88	11.29	10.94	10.53	10.24	9.89	9.60	9.31
270.0	12.35	11.82	11.41	11.06	10.59	10.30	10.07	9.83	9.54
315.0	13.52	12.82	12.23	11.82	11.29	10.89	10.48	10.18	9.89
360.0	15.27	14.86	14.57	14.16	13.40	12.82	12.23	11.70	11.29

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.77	10.36	10.01	9.66	9.25	9.01	8.78	8.66	8.49
45.0	11.29	10.83	10.36	9.77	9.36	8.95	8.49	8.19	8.08
90.0	10.12	9.83	9.48	9.19	8.78	8.49	8.19	8.02	7.84
135.0	10.53	10.24	9.89	9.60	9.19	8.90	8.60	8.25	8.08
180.0	10.07	9.77	9.54	9.31	9.01	8.84	8.54	8.37	8.25
225.0	9.07	8.90	8.60	8.49	8.25	8.08	7.90	7.72	7.61
270.0	9.31	9.01	8.72	8.60	8.31	8.13	7.96	7.78	7.61
315.0	9.54	9.19	8.90	8.60	8.31	8.08	7.90	7.72	7.55
360.0	10.77	10.36	10.01	9.66	9.25	9.01	8.78	8.66	8.49

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.25	8.13	7.90	7.78	7.55	7.43	7.26	7.14	6.96
45.0	7.84	7.67	7.49	7.32	7.20	7.02	6.85	6.67	6.55
90.0	7.67	7.49	7.32	7.14	7.02	6.85	6.73	6.55	6.38
135.0	7.90	7.72	7.55	7.37	7.20	7.02	6.91	6.73	6.61
180.0	8.08	7.90	7.72	7.55	7.37	7.20	7.02	6.91	6.73
225.0	7.43	7.32	7.20	7.02	6.79	6.67	6.50	6.32	6.20
270.0	7.49	7.37	7.20	6.96	6.85	6.67	6.50	6.38	6.26
315.0	7.37	7.26	7.02	6.91	6.79	6.61	6.50	6.38	6.20
360.0	8.25	8.13	7.90	7.78	7.55	7.43	7.26	7.14	6.96

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.85	6.67	6.55	6.44	6.38	6.20	5.91	5.68	5.27
45.0	6.38	6.26	6.09	5.97	5.85	5.74	5.62	5.44	5.33
90.0	6.26	6.14	5.97	5.85	5.68	5.62	5.50	5.38	5.27
135.0	6.44	6.32	6.20	6.03	5.91	5.79	5.68	5.56	5.38
180.0	6.55	6.44	6.32	6.20	6.09	5.91	5.74	5.56	5.50
225.0	6.03	5.91	5.79	5.68	5.62	5.44	5.38	5.27	5.15
270.0	6.14	6.03	5.91	5.74	5.68	5.56	5.44	5.33	5.21
315.0	6.09	5.97	5.91	5.74	5.68	5.56	5.38	5.27	5.15
360.0	6.85	6.67	6.55	6.44	6.38	6.20	5.91	5.68	5.27

Intensity data(cd)

C/γ(°)	90.0
0.0	5.15
45.0	5.21
90.0	5.15
135.0	5.27
180.0	5.21
225.0	5.15
270.0	5.15
315.0	5.15
360.0	5.15