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: 1-1298-L
Luminaire: 92.70.428.00
Report No: 2024618-B010
Ballast type: AC

Test No: 2024718-C010	Voltage(V): 36.780
LampCAT: CREE CXA1507 LES8.9	Current(A): 0.271
Lamp flux(lm): 1110.0	Power (W): 9.967
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1018.38, Efficiency(%): 91.75% , Luminous Efficacy(lm/W): 102.18
Central intensity(cd): 4622.312, Maximum intensity(cd): 4622.312
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=19.2
[C90/270]Total=19.2
Field angle(10%Imax): [C0/180]Total=51.6
[C90/270]Total=51.6
Maximum s/h(1/2): C0_180=0.33 C90_270=0.33
Maximum s/h(1/4): C0_180=0.37 C90_270=0.37
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.75%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.769%

NT 1-1298-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4622.312	0.000	0	0.00%	0.00%
1.0	4600.732	4.413	4.413	0.40%	0.43%
2.0	4490.344	13.048	17.461	1.18%	1.71%
3.0	4297.219	21.017	38.478	1.89%	3.78%
4.0	4064.227	27.988	66.467	2.52%	6.53%
5.0	3758.886	33.655	100.121	3.03%	9.83%
6.0	3454.349	37.907	138.029	3.42%	13.55%
7.0	3130.208	40.870	178.899	3.68%	17.57%
8.0	2796.264	42.415	221.314	3.82%	21.73%
9.0	2488.728	42.832	264.146	3.86%	25.94%
10.0	2185.874	42.303	306.449	3.81%	30.09%
11.0	1951.052	41.336	347.786	3.72%	34.15%
12.0	1684.870	39.746	387.531	3.58%	38.05%
13.0	1525.616	38.100	425.632	3.43%	41.80%
14.0	1369.463	37.057	462.689	3.34%	45.43%
15.0	1226.141	35.634	498.322	3.21%	48.93%
16.0	1136.536	34.620	532.942	3.12%	52.33%
17.0	1036.485	33.840	566.782	3.05%	55.66%
18.0	944.560	32.663	599.445	2.94%	58.86%
19.0	863.938	31.464	630.909	2.83%	61.95%
20.0	792.402	30.316	661.225	2.73%	64.93%
21.0	726.008	29.157	690.381	2.63%	67.79%
22.0	662.248	27.898	718.279	2.51%	70.53%
23.0	606.900	26.630	744.909	2.40%	73.15%
24.0	551.399	25.325	770.234	2.28%	75.63%
25.0	500.345	23.914	794.148	2.15%	77.98%
26.0	451.179	22.461	816.609	2.02%	80.19%
27.0	403.703	20.915	837.524	1.88%	82.24%
28.0	360.250	19.342	856.865	1.74%	84.14%
29.0	317.792	17.739	874.605	1.60%	85.88%
30.0	281.742	16.187	890.792	1.46%	87.47%
31.0	240.469	14.532	905.325	1.31%	88.90%
32.0	204.273	12.741	918.066	1.15%	90.15%
33.0	180.630	11.339	929.405	1.02%	91.26%
34.0	135.384	9.564	938.969	0.86%	92.20%
35.0	108.318	7.568	946.537	0.68%	92.95%
36.0	86.467	6.202	952.739	0.56%	93.55%
37.0	69.269	5.079	957.818	0.46%	94.05%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	53.416	4.095	961.914	0.37%	94.46%
39.0	42.531	3.275	965.188	0.30%	94.78%
40.0	34.857	2.699	967.888	0.24%	95.04%
41.0	28.954	2.272	970.16	0.20%	95.27%
42.0	25.340	1.973	972.132	0.18%	95.46%
43.0	22.656	1.778	973.91	0.16%	95.63%
44.0	20.768	1.639	975.549	0.15%	95.79%
45.0	19.276	1.539	977.088	0.14%	95.95%
46.0	17.952	1.456	978.544	0.13%	96.09%
47.0	16.957	1.388	979.932	0.13%	96.22%
48.0	16.108	1.337	981.269	0.12%	96.36%
49.0	15.369	1.293	982.562	0.12%	96.48%
50.0	14.740	1.255	983.817	0.11%	96.61%
51.0	14.228	1.226	985.043	0.11%	96.73%
52.0	13.826	1.204	986.247	0.11%	96.84%
53.0	13.533	1.190	987.437	0.11%	96.96%
54.0	13.263	1.181	988.618	0.11%	97.08%
55.0	13.021	1.173	989.791	0.11%	97.19%
56.0	12.882	1.171	990.962	0.11%	97.31%
57.0	12.758	1.172	992.134	0.11%	97.42%
58.0	12.648	1.175	993.309	0.11%	97.54%
59.0	12.480	1.175	994.484	0.11%	97.65%
60.0	12.297	1.171	995.654	0.11%	97.77%
61.0	12.056	1.162	996.816	0.10%	97.88%
62.0	11.712	1.145	997.962	0.10%	98.00%
63.0	11.273	1.118	999.079	0.10%	98.10%
64.0	10.812	1.084	1000.163	0.10%	98.21%
65.0	10.344	1.047	1001.21	0.09%	98.31%
66.0	9.832	1.007	1002.217	0.09%	98.41%
67.0	9.305	0.962	1003.179	0.09%	98.51%
68.0	8.881	0.921	1004.1	0.08%	98.60%
69.0	8.537	0.889	1004.989	0.08%	98.69%
70.0	8.193	0.859	1005.848	0.08%	98.77%
71.0	7.798	0.827	1006.675	0.07%	98.85%
72.0	7.432	0.792	1007.466	0.07%	98.93%
73.0	7.059	0.758	1008.224	0.07%	99.00%
74.0	6.818	0.730	1008.954	0.07%	99.07%
75.0	6.576	0.708	1009.662	0.06%	99.14%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.350	0.686	1010.348	0.06%	99.21%
77.0	6.189	0.668	1011.016	0.06%	99.28%
78.0	6.035	0.654	1011.671	0.06%	99.34%
79.0	5.838	0.638	1012.308	0.06%	99.40%
80.0	5.706	0.622	1012.931	0.06%	99.47%
81.0	5.560	0.609	1013.54	0.05%	99.52%
82.0	5.428	0.596	1014.136	0.05%	99.58%
83.0	5.296	0.583	1014.719	0.05%	99.64%
84.0	5.165	0.570	1015.289	0.05%	99.70%
85.0	5.026	0.556	1015.845	0.05%	99.75%
86.0	4.777	0.536	1016.381	0.05%	99.80%
87.0	4.616	0.514	1016.895	0.05%	99.85%
88.0	4.521	0.500	1017.395	0.05%	99.90%
89.0	4.492	0.494	1017.889	0.04%	99.95%
90.0	4.426	0.489	1018.378	0.04%	100.00%

Zonal flux distribution table

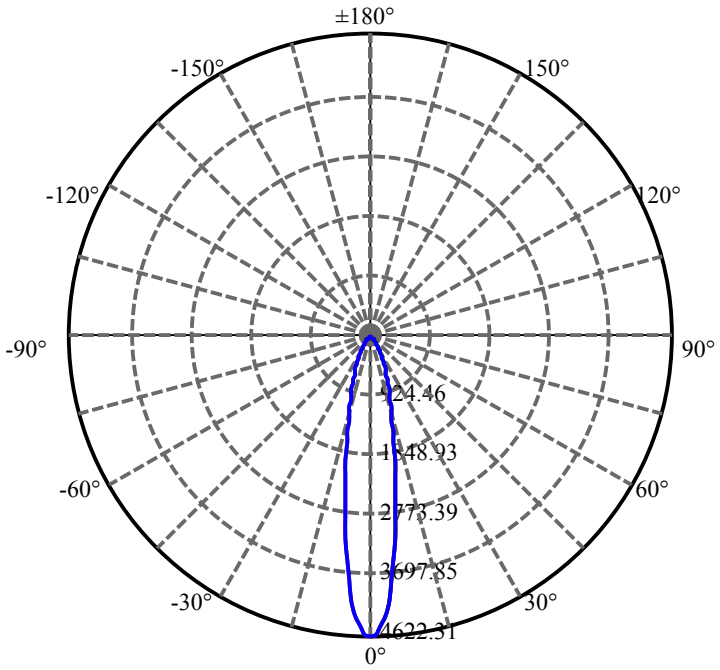
ZONAL LUMEN SUMMARY

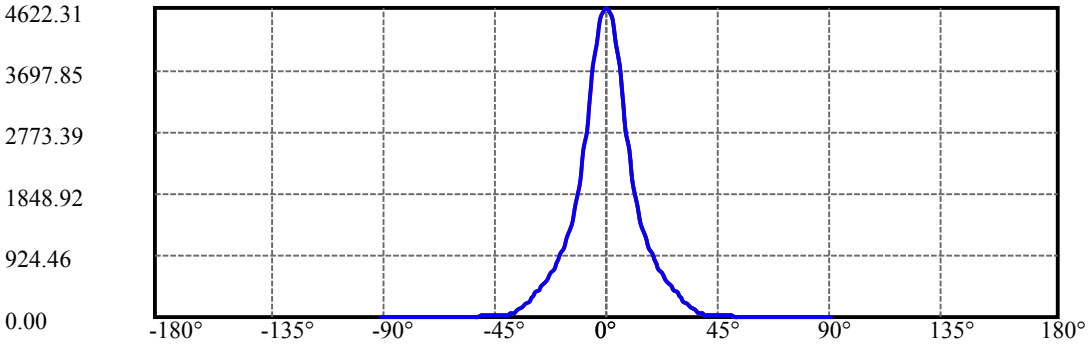
Zone	Lumens	%Lamp	%Fixt
0-30	890.79	80.25%	87.47%
0-40	967.89	87.20%	95.04%
0-60	995.65	89.70%	97.77%
0-90	1017.89	91.70%	99.95%
0-120	1017.89	91.70%	99.95%
0-180	1018.38	91.75%	100.00%
60-90	22.24	2.00%	2.18%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.92	814.70	73.40%	80.00%

ZONAL LUMEN SUMMARY

0-10	306.45
10-20	354.78
20-30	229.57
30-40	77.10
40-50	15.93
50-60	11.84
60-70	10.19
70-80	7.08
80-90	4.96
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):

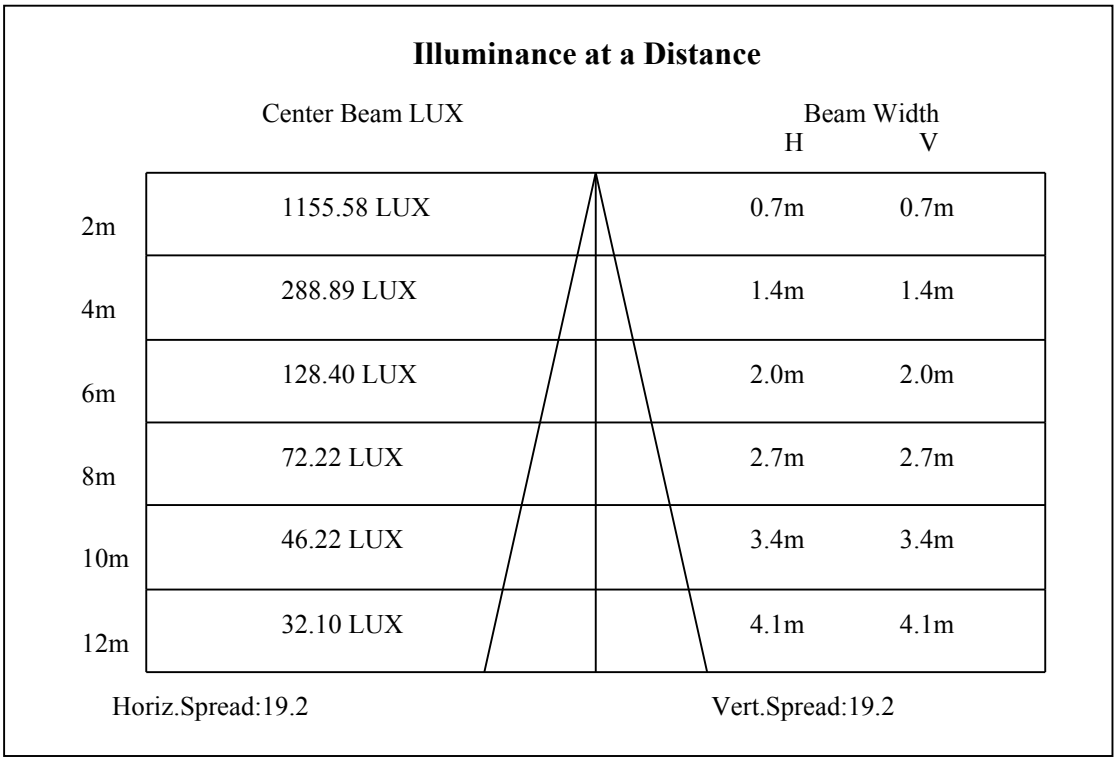
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:25.8 Right:25.8
:C90/270Left:25.8 Right:25.8

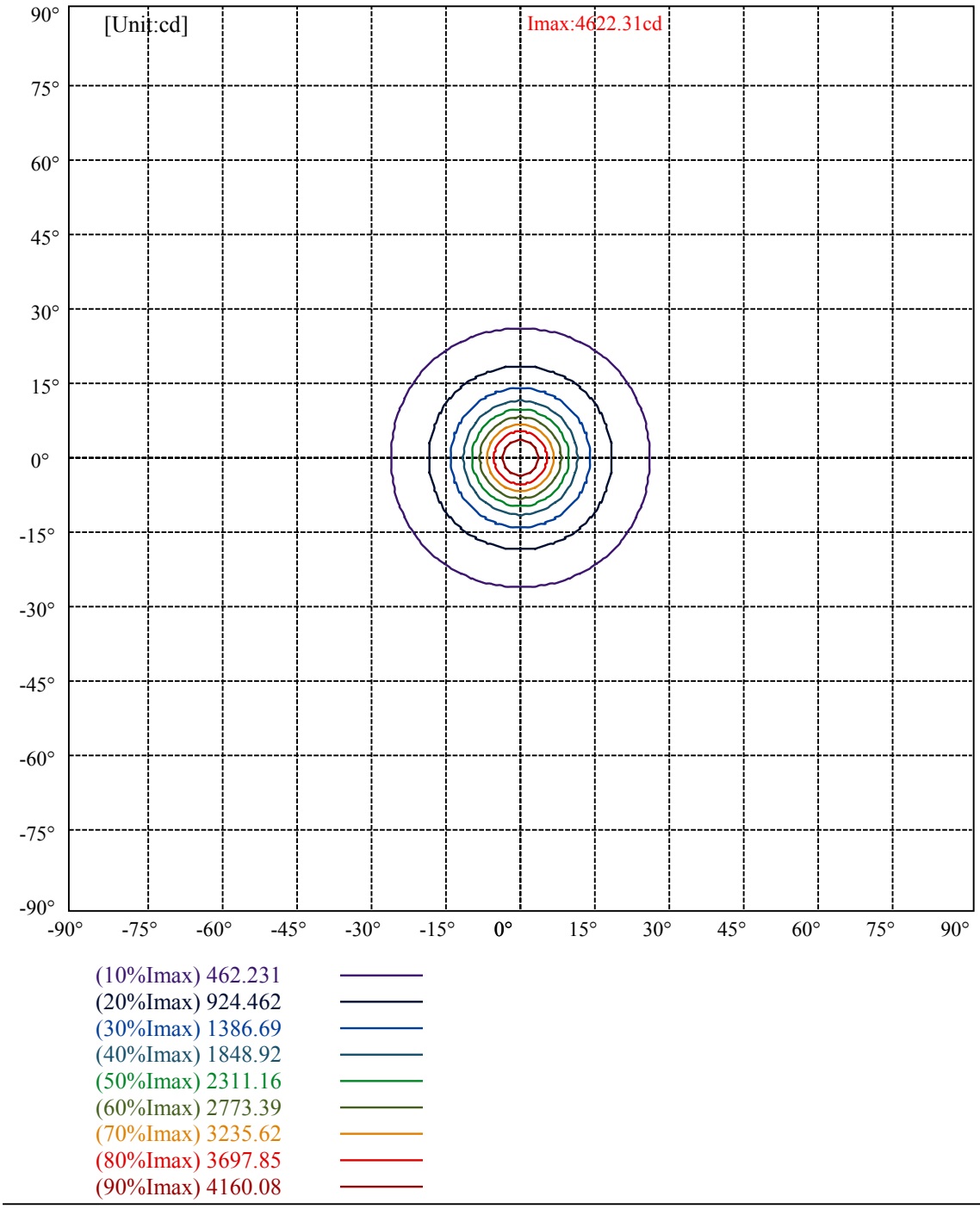
Beam Angle(50%Imax):C0/180Left:9.6 Right:9.6
:C90/270Left:9.6 Right:9.6

Lux distance Curve



Equipment: GMS1980 Date: 2024/7/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

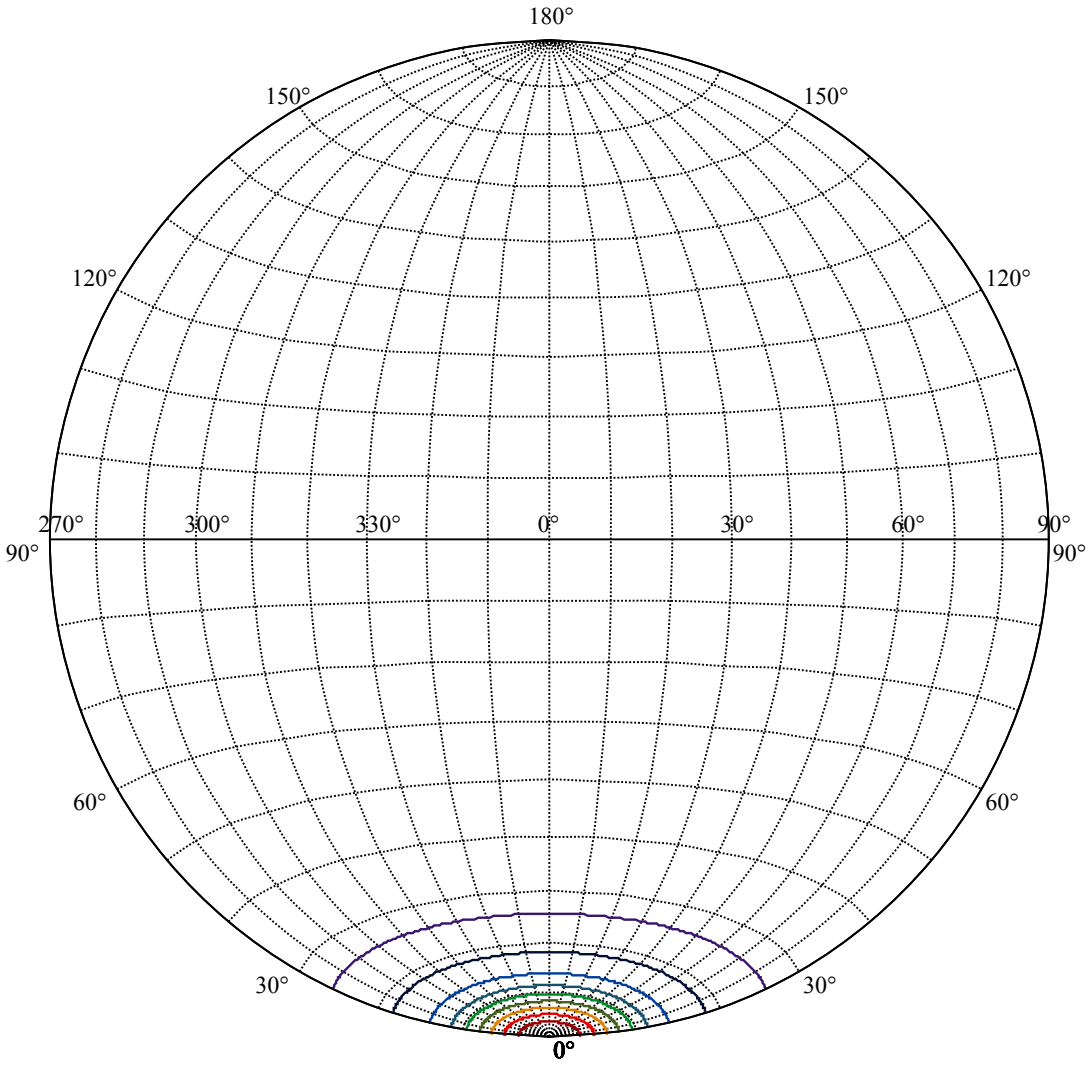


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/7/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



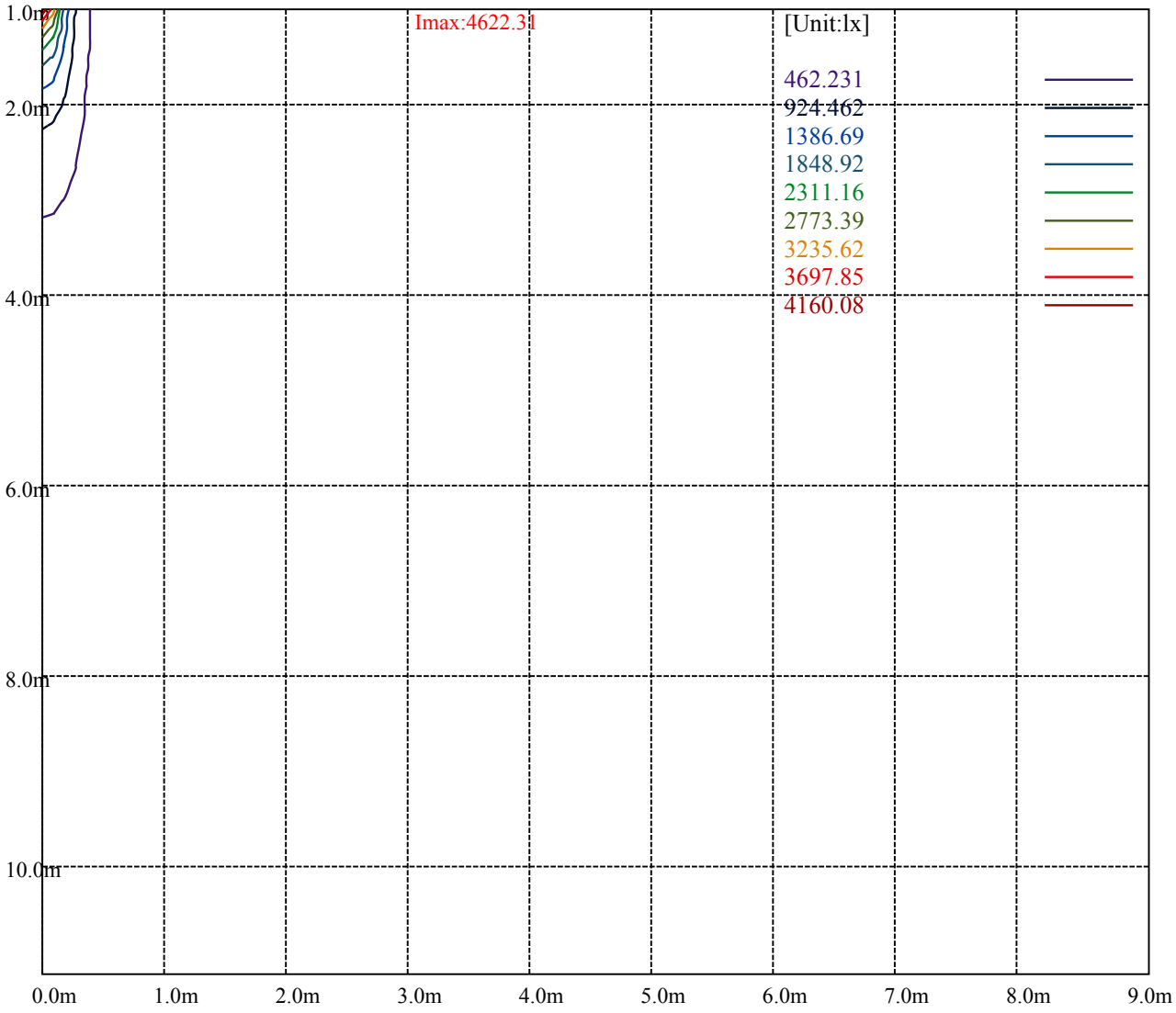
House [Unit:cd] Road

Imax:4622.31

(10%Imax) 462.231
(20%Imax) 924.462
(30%Imax) 1386.69
(40%Imax) 1848.92
(50%Imax) 2311.16
(60%Imax) 2773.39
(70%Imax) 3235.62
(80%Imax) 3697.85
(90%Imax) 4160.08

Equipment: GMS1980	Date: 2024/7/18	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/7/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 1-1298-L

Luminance Limitting Curve(no luminous side)

Luminance Table

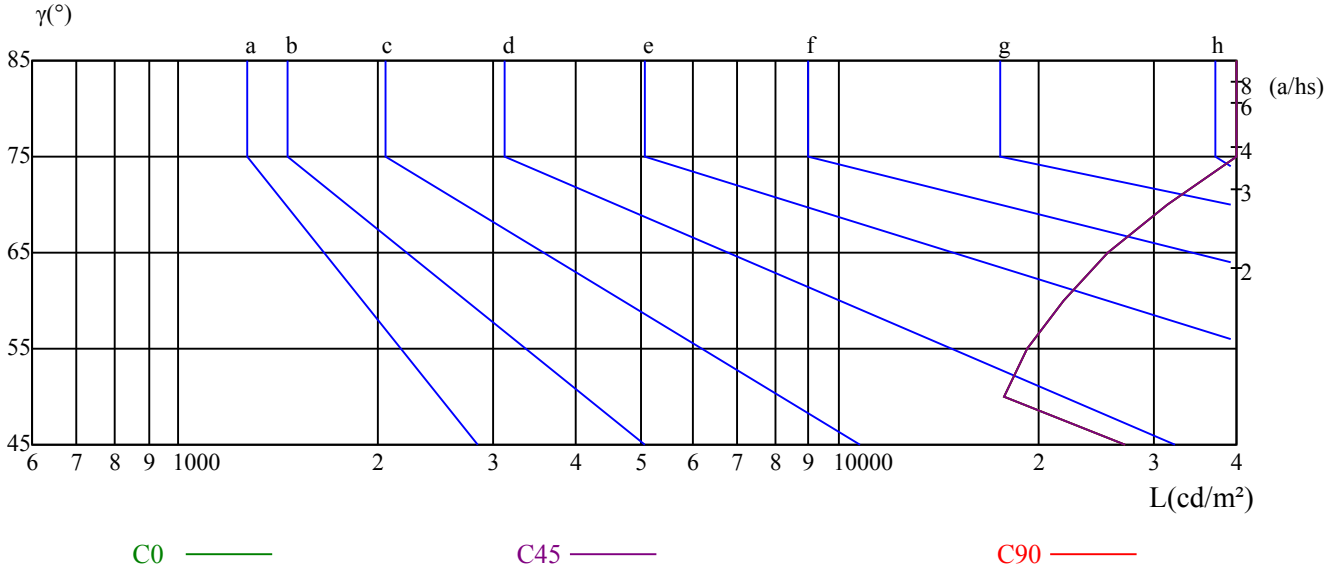
γ	45	50	55	60	65	70	75	80	85
C0	27187	17735	19255	21838	25550	31488	40720	58925	105536
C45	27187	17735	19255	21838	25550	31488	40720	58925	105536
C90	27187	17735	19255	21838	25550	31488	40720	58925	105536

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
25550	25550	25550	40720	40720	40720	105536	105536	105536

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



Equipment: GMS1980
Temperature(°C): 25.0

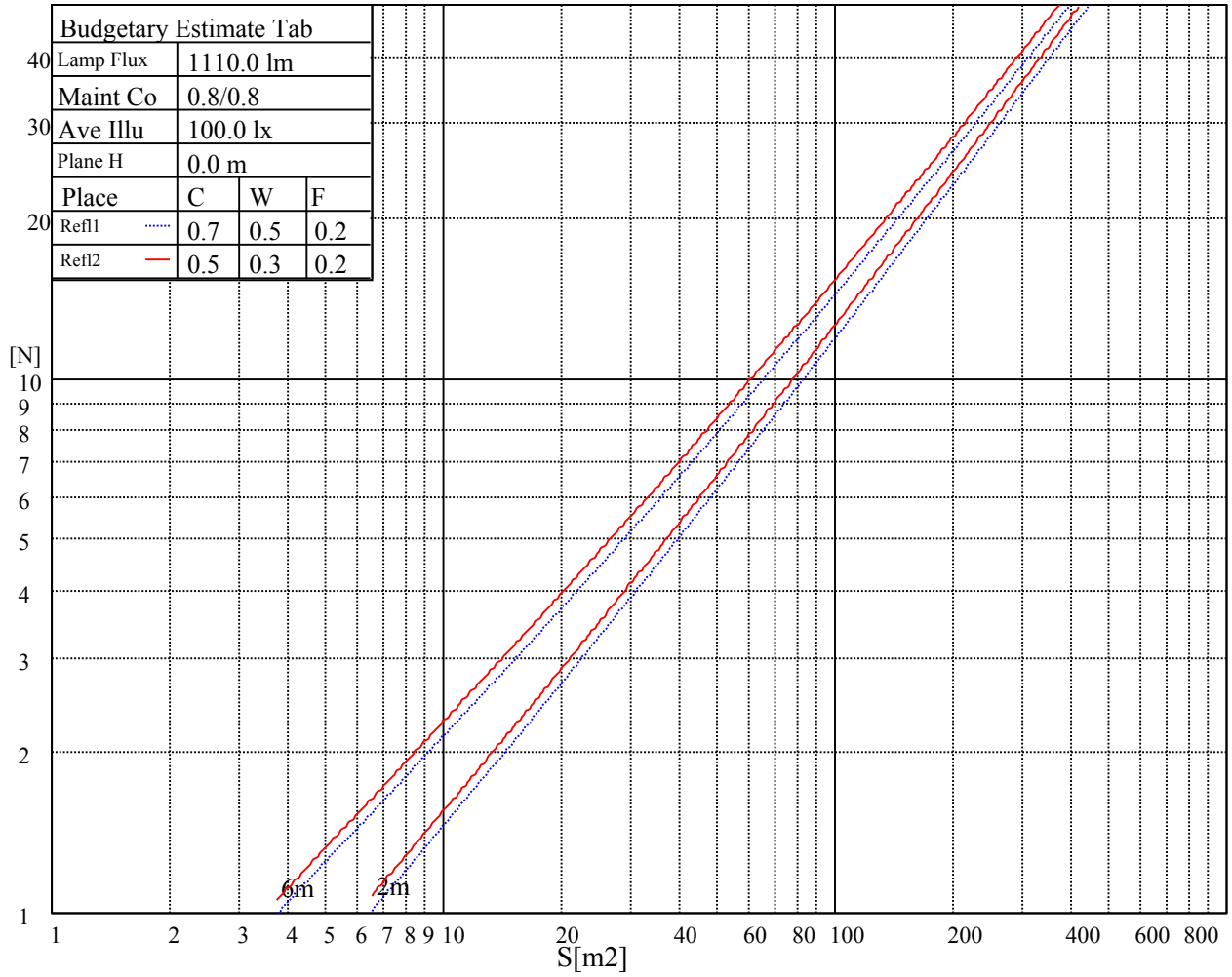
Date: 2024/7/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

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

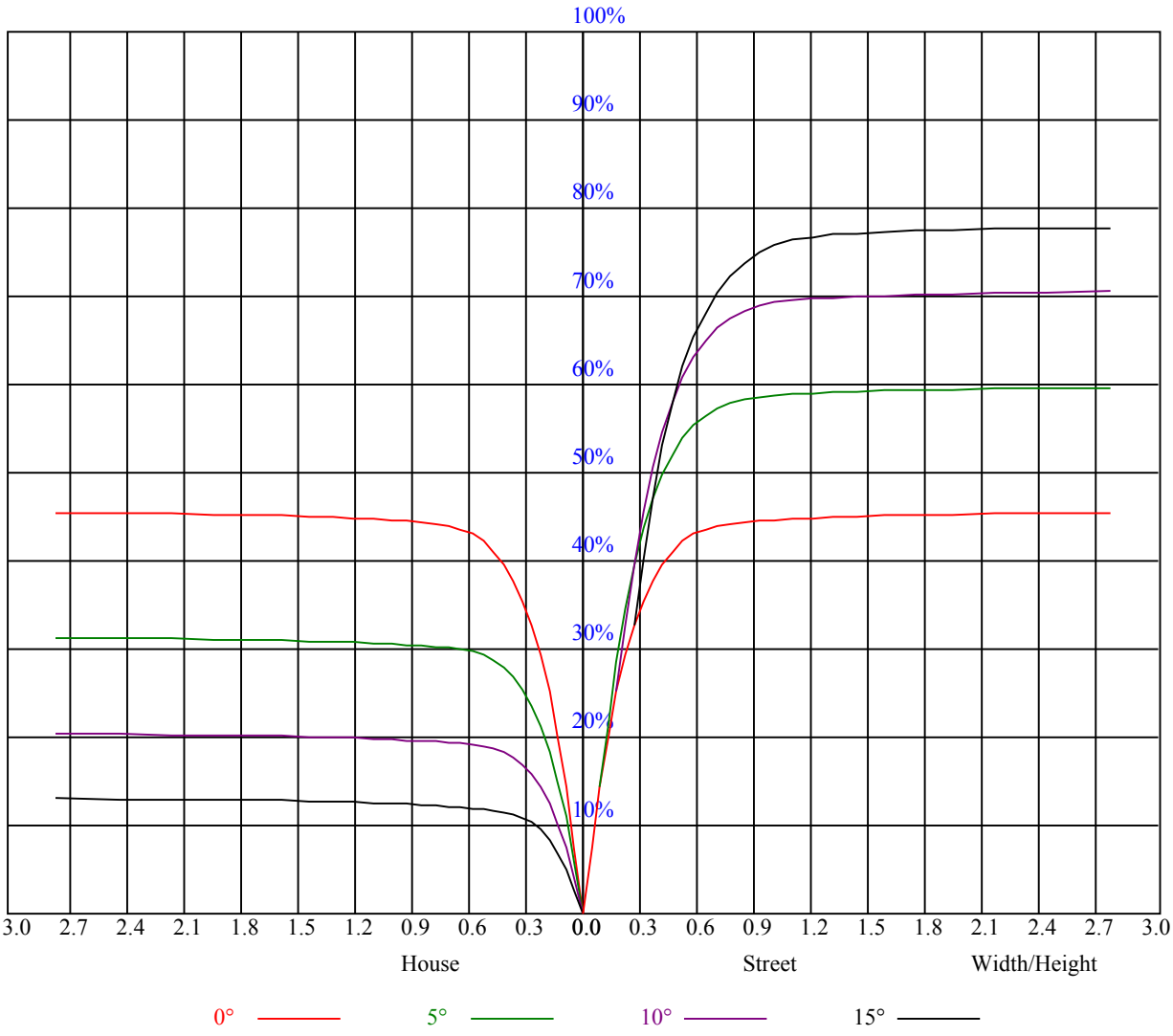


Equipment: GMS1980 Date: 2024/7/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Utilization factor table for indoor luminaire

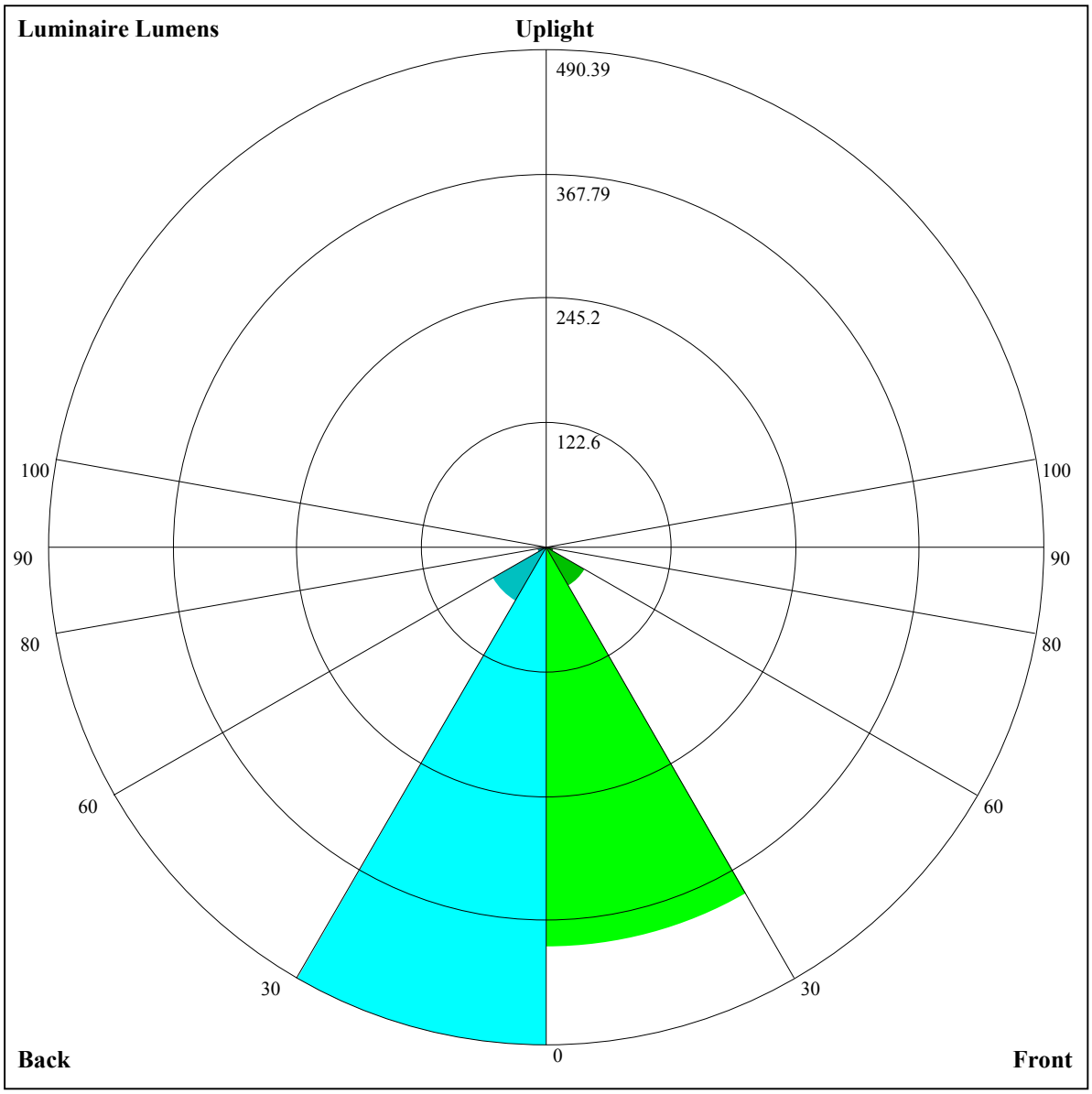
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	1.00	0.99	1.01	0.99	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.89	0.87
2	0.97	0.94	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.84	0.83
3	0.92	0.88	0.85	0.91	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.84	0.82	0.80	0.79
4	0.87	0.83	0.80	0.86	0.83	0.80	0.85	0.81	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
5	0.84	0.79	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.74	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	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.73	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	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/7/18	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

LCS Graph



Luminaire Lumens:

FL=394.17,FM=44.14,FH=8.42,FVH=2.68

BL=490.39,BM=61.06,BH=8.89,BVH=2.76

UL=0,UH=0

BUG Rating:B1-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	4503.95	4234.16	3922.82	3524.87	3194.22	2875.85	2591.43	2270.73	2044.83
45.0	4763.20	4613.39	4406.22	4082.00	3770.08	3454.06	3043.23	2746.52	2398.31
90.0	4670.74	4586.47	4423.77	4129.41	3850.25	3471.03	3164.96	2842.50	2546.37
135.0	4551.35	4755.01	4830.51	4818.80	4731.60	4496.34	4232.99	3927.50	3488.00
180.0	4503.95	4782.52	4921.22	4981.49	4952.23	4775.49	4545.50	4245.28	3816.90
225.0	4763.20	4830.51	4785.44	4662.55	4455.38	4106.00	3785.88	3425.38	3067.81
270.0	4670.74	4670.15	4575.35	4417.92	4197.88	3850.84	3543.01	3219.97	2892.83
315.0	4551.35	4333.65	4057.42	3760.71	3362.18	3041.47	2727.79	2363.78	2115.06
360.0	4503.95	4234.16	3922.82	3524.87	3194.22	2875.85	2591.43	2270.73	2044.83

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1842.35	1632.25	1481.26	1147.28	1147.28	1099.81	1007.58	922.67	829.44
45.0	2160.71	1944.18	1752.22	1555.59	1416.30	1288.72	1151.20	1051.12	964.51
90.0	2281.27	1981.05	1777.97	1602.99	1418.06	1141.72	1141.72	1066.34	958.48
135.0	3133.94	2710.82	2400.07	2118.57	1890.34	1648.64	1491.21	1359.54	1240.74
180.0	3435.33	2973.00	2612.50	2294.73	1965.24	1755.73	1580.75	1443.22	1288.72
225.0	2647.03	2345.64	2081.70	1807.82	1636.93	1486.53	1155.53	1155.53	1108.88
270.0	2513.01	2233.28	1990.99	1786.75	1565.54	1419.23	1264.73	1159.97	1059.90
315.0	1896.19	1666.78	1511.69	1165.24	1165.24	1115.32	1016.42	933.90	841.20
360.0	1842.35	1632.25	1481.26	1147.28	1147.28	1099.81	1007.58	922.67	829.44

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	764.60	704.14	634.74	595.82	534.13	487.02	431.37	390.29	348.74
45.0	886.67	818.79	741.54	680.68	626.83	563.04	515.64	459.46	416.15
90.0	878.42	790.76	728.96	670.32	604.48	554.44	508.09	461.33	406.85
135.0	1114.33	1028.30	946.37	852.15	788.36	728.08	659.02	606.94	544.32
180.0	1176.95	1069.85	983.82	908.91	816.45	759.10	694.72	632.10	581.19
225.0	1014.55	914.71	845.53	781.86	721.88	651.65	600.56	551.87	495.33
270.0	947.54	869.70	802.40	726.91	663.70	615.72	549.00	502.77	459.46
315.0	773.43	715.26	655.86	591.43	542.15	496.15	452.79	398.01	357.40
360.0	764.60	704.14	634.74	595.82	534.13	487.02	431.37	390.29	348.74

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	298.00	257.38	212.09	179.84	149.88	123.37	94.51	75.55	60.57
45.0	374.02	330.71	299.69	299.69	206.99	176.04	139.34	113.71	90.94
90.0	363.60	321.29	283.60	234.73	200.38	168.90	140.04	108.33	86.26
135.0	496.33	450.68	406.79	355.29	314.91	304.96	304.96	188.15	157.31
180.0	523.83	474.09	431.37	389.23	335.98	304.38	304.38	215.07	173.87
225.0	451.33	408.25	355.11	313.27	263.94	226.54	191.54	160.29	124.42
270.0	415.57	372.85	324.86	296.77	296.77	202.43	172.47	144.20	111.49
315.0	306.95	266.75	228.82	185.11	154.91	127.58	97.79	77.78	61.68
360.0	298.00	257.38	212.09	179.84	149.88	123.37	94.51	75.55	60.57

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	48.92	40.50	33.24	29.32	26.16	24.40	23.00	21.54	20.48
45.0	67.65	53.37	42.49	34.47	27.86	24.46	21.77	20.07	18.67
90.0	64.67	52.20	42.72	34.24	29.79	26.80	24.11	22.41	21.01
135.0	128.28	102.53	75.55	58.70	45.94	35.17	29.38	25.34	21.95
180.0	142.74	115.17	85.85	66.83	51.91	38.80	31.95	26.63	23.70
225.0	99.49	78.19	61.21	45.30	36.46	30.37	26.04	22.59	20.66
270.0	90.89	72.80	55.42	45.24	37.69	31.13	27.56	25.11	23.41
315.0	49.10	39.39	30.84	26.16	23.06	20.48	18.90	17.56	16.27
360.0	48.92	40.50	33.24	29.32	26.16	24.40	23.00	21.54	20.48

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	19.55	18.61	18.02	17.50	16.97	16.27	15.92	15.63	15.39
45.0	17.56	16.33	15.45	14.75	14.10	13.64	13.28	12.99	12.70
90.0	19.84	18.43	17.62	16.97	16.09	15.57	15.04	14.51	14.34
135.0	20.07	18.26	17.09	15.98	15.10	14.28	13.46	12.99	12.58
180.0	21.48	19.96	18.38	17.38	16.62	15.92	15.45	15.22	14.86
225.0	18.96	17.67	16.56	15.39	14.51	13.87	13.34	12.76	12.41
270.0	21.42	19.96	18.73	17.62	16.68	15.92	15.10	14.46	13.99
315.0	15.33	14.40	13.81	13.28	12.87	12.47	12.23	12.06	12.00
360.0	19.55	18.61	18.02	17.50	16.97	16.27	15.92	15.63	15.39

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	15.16	15.04	14.86	14.57	14.22	13.75	13.28	12.52	11.76
45.0	12.52	12.41	12.29	12.29	12.29	12.06	11.82	11.59	11.12
90.0	14.10	13.75	13.64	13.46	13.52	13.40	13.11	12.82	12.41
135.0	12.29	11.94	11.76	11.59	11.47	11.41	11.47	11.53	11.53
180.0	14.57	14.22	14.05	13.93	13.75	13.58	13.46	13.34	13.23
225.0	12.06	11.82	11.65	11.53	11.47	11.47	11.53	11.47	11.24
270.0	13.52	13.11	12.87	12.76	12.64	12.58	12.35	12.23	11.94
315.0	11.88	11.88	11.94	11.94	11.82	11.59	11.35	10.94	10.48
360.0	15.16	15.04	14.86	14.57	14.22	13.75	13.28	12.52	11.76

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.12	10.42	9.83	9.36	8.90	8.54	8.49	8.08	7.49
45.0	10.53	10.07	9.66	9.01	8.72	8.43	8.25	8.25	8.37
90.0	11.88	11.06	10.59	9.95	9.36	9.01	8.66	8.43	7.72
135.0	11.41	11.24	11.00	10.59	10.01	9.54	9.07	8.60	8.13
180.0	12.93	12.64	12.35	11.88	11.00	10.42	9.83	9.25	8.60
225.0	11.00	10.71	10.07	9.60	9.07	8.60	8.02	7.67	7.43
270.0	11.47	11.00	10.36	9.77	9.31	8.66	8.31	7.96	7.61
315.0	9.83	9.36	8.90	8.49	8.08	7.84	7.67	7.32	7.02
360.0	11.12	10.42	9.83	9.36	8.90	8.54	8.49	8.08	7.49

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.14	6.85	6.61	6.44	6.26	6.14	5.97	5.79	5.62
45.0	7.96	7.20	6.79	6.50	6.32	6.14	5.97	5.79	5.68
90.0	7.20	6.91	6.67	6.50	6.26	6.14	5.97	5.79	5.62
135.0	7.78	7.43	7.20	6.96	6.67	6.50	6.38	6.14	6.03
180.0	8.19	7.84	7.49	7.08	6.79	6.55	6.38	6.20	6.03
225.0	7.08	6.79	6.67	6.44	6.20	6.03	5.91	5.74	5.62
270.0	7.32	6.91	6.73	6.50	6.32	6.14	6.03	5.74	5.62
315.0	6.79	6.55	6.38	6.20	5.97	5.85	5.68	5.50	5.44
360.0	7.14	6.85	6.61	6.44	6.26	6.14	5.97	5.79	5.62

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.56	5.44	5.33	5.15	5.09	4.68	4.45	4.45	4.62
45.0	5.50	5.38	5.21	5.15	4.97	4.74	4.51	4.39	4.39
90.0	5.44	5.33	5.15	5.03	4.86	4.56	4.51	4.39	4.33
135.0	5.85	5.68	5.56	5.44	5.27	5.15	4.86	4.74	4.62
180.0	5.91	5.74	5.62	5.44	5.33	5.15	4.97	4.86	4.74
225.0	5.44	5.33	5.21	5.09	4.92	4.68	4.62	4.51	4.45
270.0	5.44	5.33	5.21	5.03	4.92	4.68	4.56	4.45	4.39
315.0	5.33	5.21	5.09	4.97	4.86	4.56	4.45	4.39	4.39
360.0	5.56	5.44	5.33	5.15	5.09	4.68	4.45	4.45	4.62

Intensity data(cd)

C/γ(°)	90.0
0.0	4.56
45.0	4.33
90.0	4.33
135.0	4.51
180.0	4.68
225.0	4.33
270.0	4.33
315.0	4.33
360.0	4.56