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

NT

Client:
LumCAT: 1-1298-L
Luminaire: 92.70.428.00
Report No: 2024618-B011
Ballast type: AC

Test No: 2024718-C011	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): 1013.75, Efficiency(%): 91.33% , Luminous Efficacy(lm/W): 101.71
Central intensity(cd): 4878.202, Maximum intensity(cd): 4878.202
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=17.8
[C90/270]Total=17.8
Field angle(10%Imax): [C0/180]Total=50.2
[C90/270]Total=50.2
Maximum s/h(1/2): C0_180=0.30 C90_270=0.30
Maximum s/h(1/4): C0_180=0.35 C90_270=0.35
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.33%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.524%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4878.202	0.000	0	0.00%	0.00%
1.0	4833.871	4.647	4.647	0.42%	0.46%
2.0	4696.123	13.678	18.325	1.23%	1.81%
3.0	4482.516	21.952	40.278	1.98%	3.97%
4.0	4191.001	29.033	69.311	2.62%	6.84%
5.0	3833.429	34.521	103.831	3.11%	10.24%
6.0	3457.568	38.316	142.148	3.45%	14.02%
7.0	3088.657	40.632	182.78	3.66%	18.03%
8.0	2733.498	41.668	224.448	3.75%	22.14%
9.0	2393.848	41.554	266.002	3.74%	26.24%
10.0	2117.622	40.827	306.829	3.68%	30.27%
11.0	1882.142	39.966	346.795	3.60%	34.21%
12.0	1689.384	39.042	385.837	3.52%	38.06%
13.0	1481.000	37.624	423.462	3.39%	41.77%
14.0	1319.317	35.844	459.305	3.23%	45.31%
15.0	1242.301	35.167	494.472	3.17%	48.78%
16.0	1141.789	34.934	529.406	3.15%	52.22%
17.0	1035.124	33.900	563.306	3.05%	55.57%
18.0	947.435	32.688	595.995	2.94%	58.79%
19.0	868.269	31.590	627.584	2.85%	61.91%
20.0	796.550	30.471	658.055	2.75%	64.91%
21.0	725.511	29.227	687.282	2.63%	67.80%
22.0	658.078	27.804	715.085	2.50%	70.54%
23.0	596.388	26.322	741.407	2.37%	73.14%
24.0	542.877	24.908	766.316	2.24%	75.59%
25.0	491.618	23.522	789.838	2.12%	77.91%
26.0	442.335	22.046	811.884	1.99%	80.09%
27.0	400.118	20.611	832.495	1.86%	82.12%
28.0	355.934	19.142	851.636	1.72%	84.01%
29.0	311.815	17.470	869.107	1.57%	85.73%
30.0	273.351	15.799	884.906	1.42%	87.29%
31.0	246.899	14.478	899.384	1.30%	88.72%
32.0	201.925	12.858	912.242	1.16%	89.99%
33.0	149.079	10.341	922.583	0.93%	91.01%
34.0	115.019	7.992	930.575	0.72%	91.80%
35.0	87.447	6.288	936.863	0.57%	92.42%
36.0	68.471	4.964	941.828	0.45%	92.91%
37.0	55.523	4.044	945.872	0.36%	93.30%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	47.571	3.441	949.313	0.31%	93.64%
39.0	42.144	3.062	952.375	0.28%	93.95%
40.0	38.142	2.800	955.175	0.25%	94.22%
41.0	34.448	2.585	957.76	0.23%	94.48%
42.0	31.178	2.384	960.144	0.21%	94.71%
43.0	28.566	2.213	962.357	0.20%	94.93%
44.0	26.357	2.073	964.43	0.19%	95.13%
45.0	24.433	1.952	966.382	0.18%	95.33%
46.0	22.729	1.844	968.227	0.17%	95.51%
47.0	21.214	1.748	969.974	0.16%	95.68%
48.0	20.022	1.667	971.641	0.15%	95.85%
49.0	18.991	1.602	973.243	0.14%	96.00%
50.0	18.025	1.543	974.787	0.14%	96.16%
51.0	17.242	1.492	976.279	0.13%	96.30%
52.0	16.576	1.451	977.73	0.13%	96.45%
53.0	16.042	1.419	979.149	0.13%	96.59%
54.0	15.552	1.393	980.541	0.13%	96.72%
55.0	15.216	1.373	981.915	0.12%	96.86%
56.0	14.909	1.361	983.276	0.12%	96.99%
57.0	14.675	1.353	984.629	0.12%	97.13%
58.0	14.448	1.347	985.975	0.12%	97.26%
59.0	14.214	1.340	987.315	0.12%	97.39%
60.0	13.980	1.332	988.647	0.12%	97.52%
61.0	13.636	1.318	989.965	0.12%	97.65%
62.0	13.255	1.296	991.261	0.12%	97.78%
63.0	12.780	1.266	992.527	0.11%	97.91%
64.0	12.224	1.227	993.754	0.11%	98.03%
65.0	11.763	1.187	994.941	0.11%	98.14%
66.0	11.258	1.149	996.09	0.10%	98.26%
67.0	10.805	1.109	997.199	0.10%	98.37%
68.0	10.388	1.074	998.273	0.10%	98.47%
69.0	10.015	1.041	999.314	0.09%	98.58%
70.0	9.605	1.008	1000.321	0.09%	98.68%
71.0	9.130	0.968	1001.29	0.09%	98.77%
72.0	8.413	0.912	1002.202	0.08%	98.86%
73.0	7.864	0.851	1003.053	0.08%	98.94%
74.0	7.476	0.806	1003.859	0.07%	99.02%
75.0	7.176	0.774	1004.633	0.07%	99.10%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.906	0.748	1005.381	0.07%	99.17%
77.0	6.679	0.724	1006.105	0.07%	99.25%
78.0	6.445	0.703	1006.808	0.06%	99.32%
79.0	6.225	0.681	1007.489	0.06%	99.38%
80.0	6.021	0.660	1008.149	0.06%	99.45%
81.0	5.852	0.642	1008.791	0.06%	99.51%
82.0	5.647	0.624	1009.414	0.06%	99.57%
83.0	5.479	0.605	1010.019	0.05%	99.63%
84.0	5.311	0.588	1010.607	0.05%	99.69%
85.0	5.172	0.572	1011.179	0.05%	99.75%
86.0	4.901	0.551	1011.73	0.05%	99.80%
87.0	4.711	0.526	1012.256	0.05%	99.85%
88.0	4.572	0.509	1012.764	0.05%	99.90%
89.0	4.477	0.496	1013.26	0.04%	99.95%
90.0	4.455	0.490	1013.75	0.04%	100.00%

Zonal flux distribution table

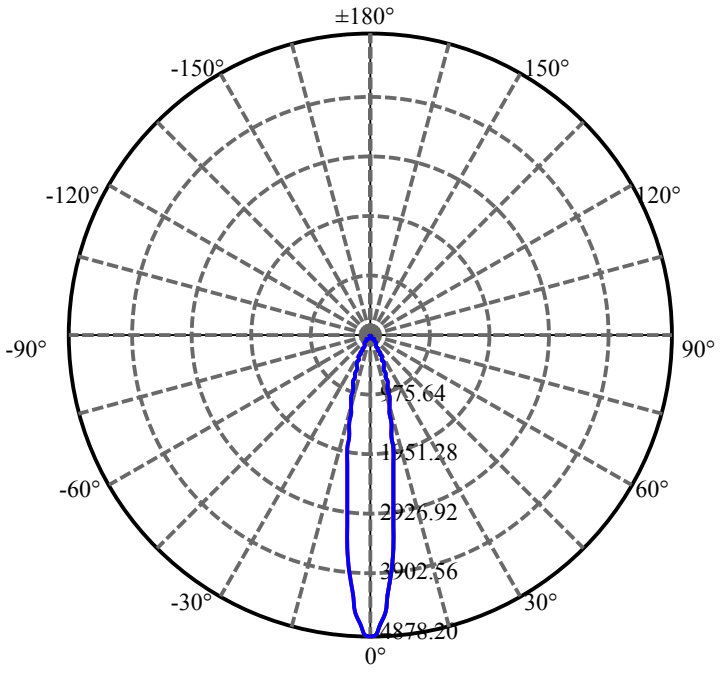
ZONAL LUMEN SUMMARY

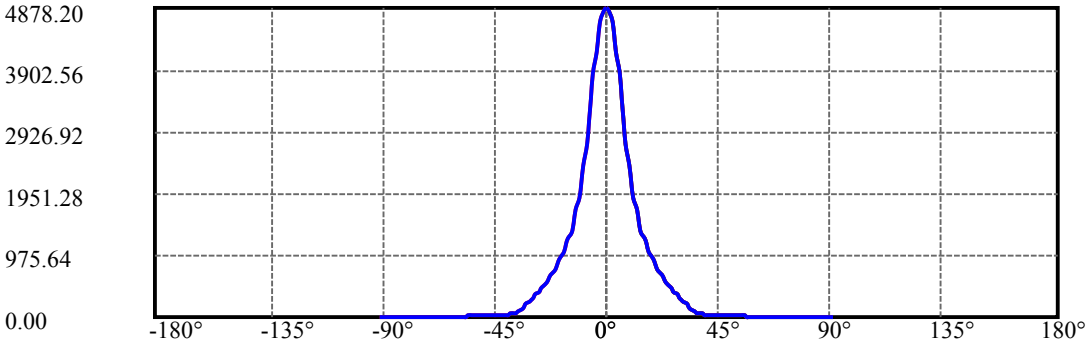
Zone	Lumens	%Lamp	%Fixt
0-30	884.91	79.72%	87.29%
0-40	955.17	86.05%	94.22%
0-60	988.65	89.07%	97.52%
0-90	1013.26	91.28%	99.95%
0-120	1013.26	91.28%	99.95%
0-180	1013.75	91.33%	100.00%
60-90	24.61	2.22%	2.43%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.96	811.00	73.06%	80.00%

ZONAL LUMEN SUMMARY

0-10	306.83
10-20	351.23
20-30	226.85
30-40	70.27
40-50	19.61
50-60	13.86
60-70	11.67
70-80	7.83
80-90	5.11
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):

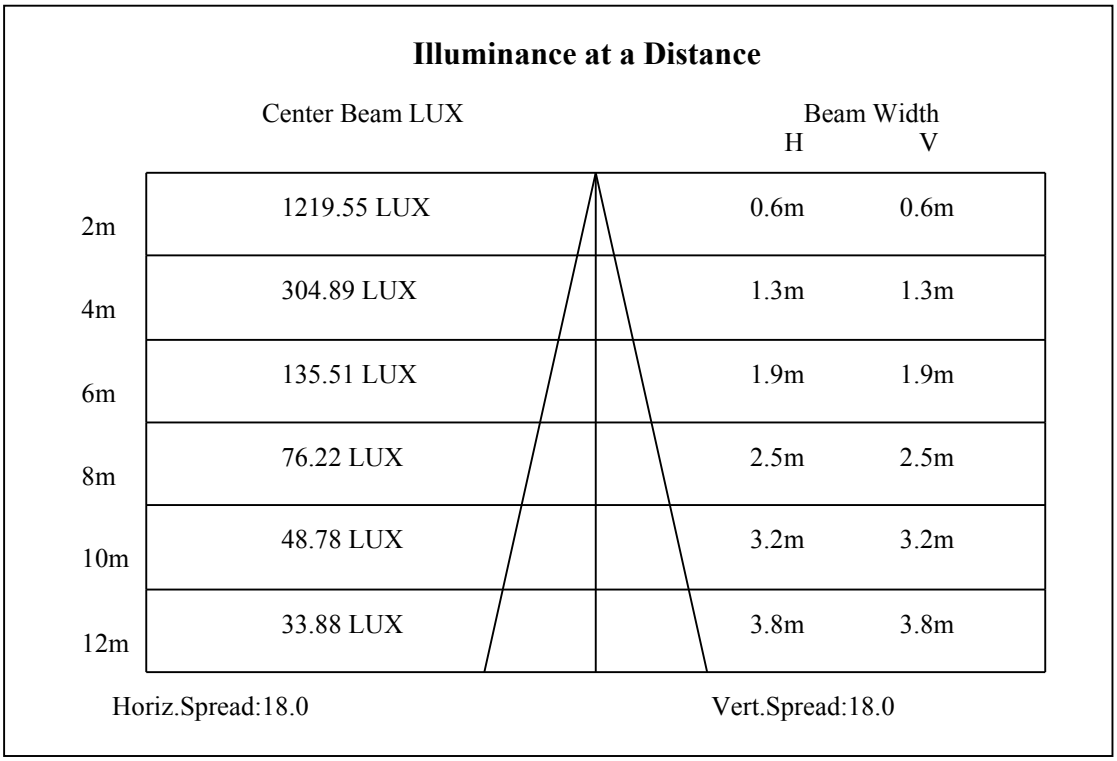
C0/C180:

C90/C270:

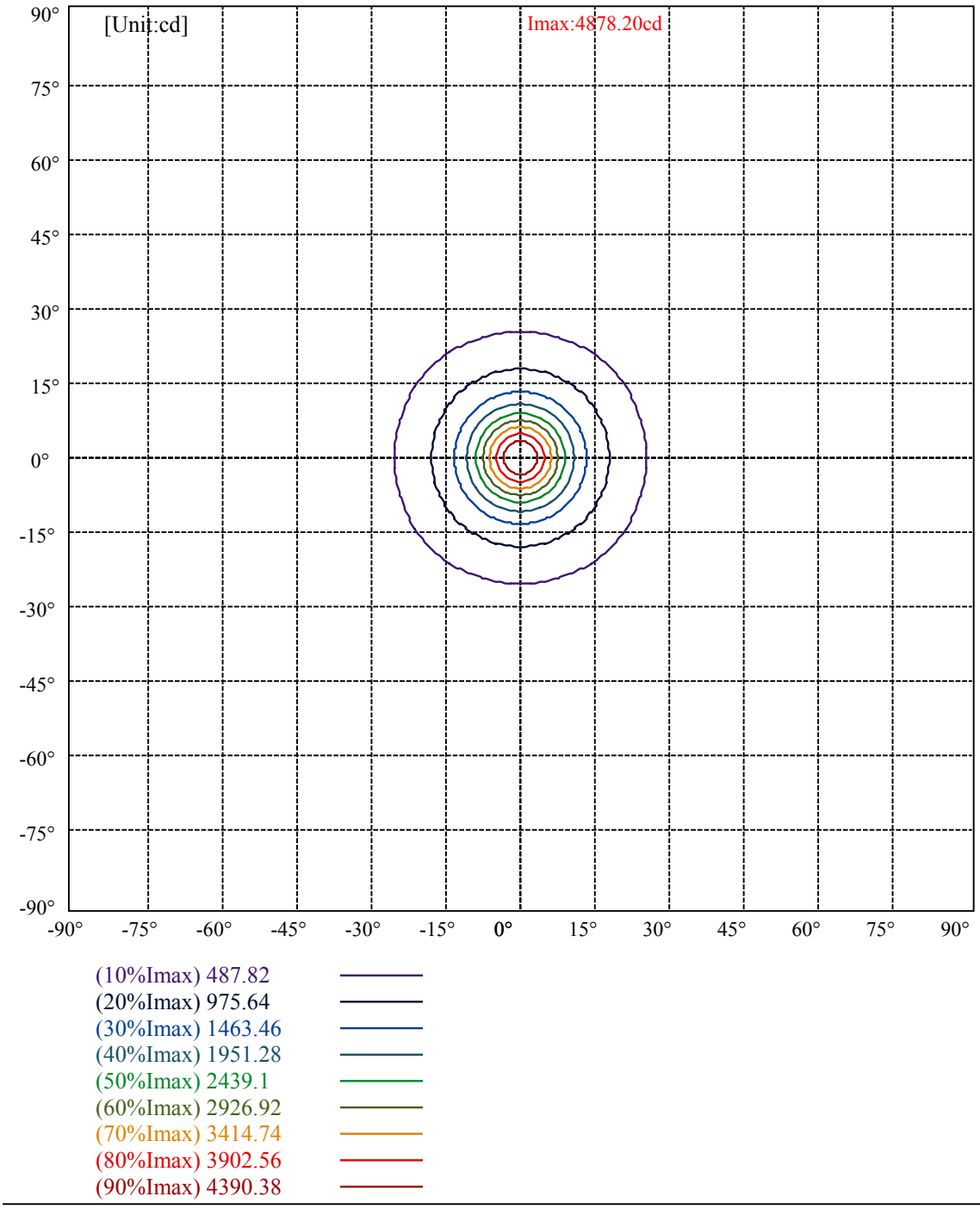
Field angle(10%Imax):C0/180Left:25.1 Right:25.1
:C90/270Left:25.1 Right:25.1

Beam Angle(50%Imax):C0/180Left:8.9 Right:8.9
:C90/270Left:8.9 Right:8.9

Lux distance Curve



ISO-Intensity(V-H)

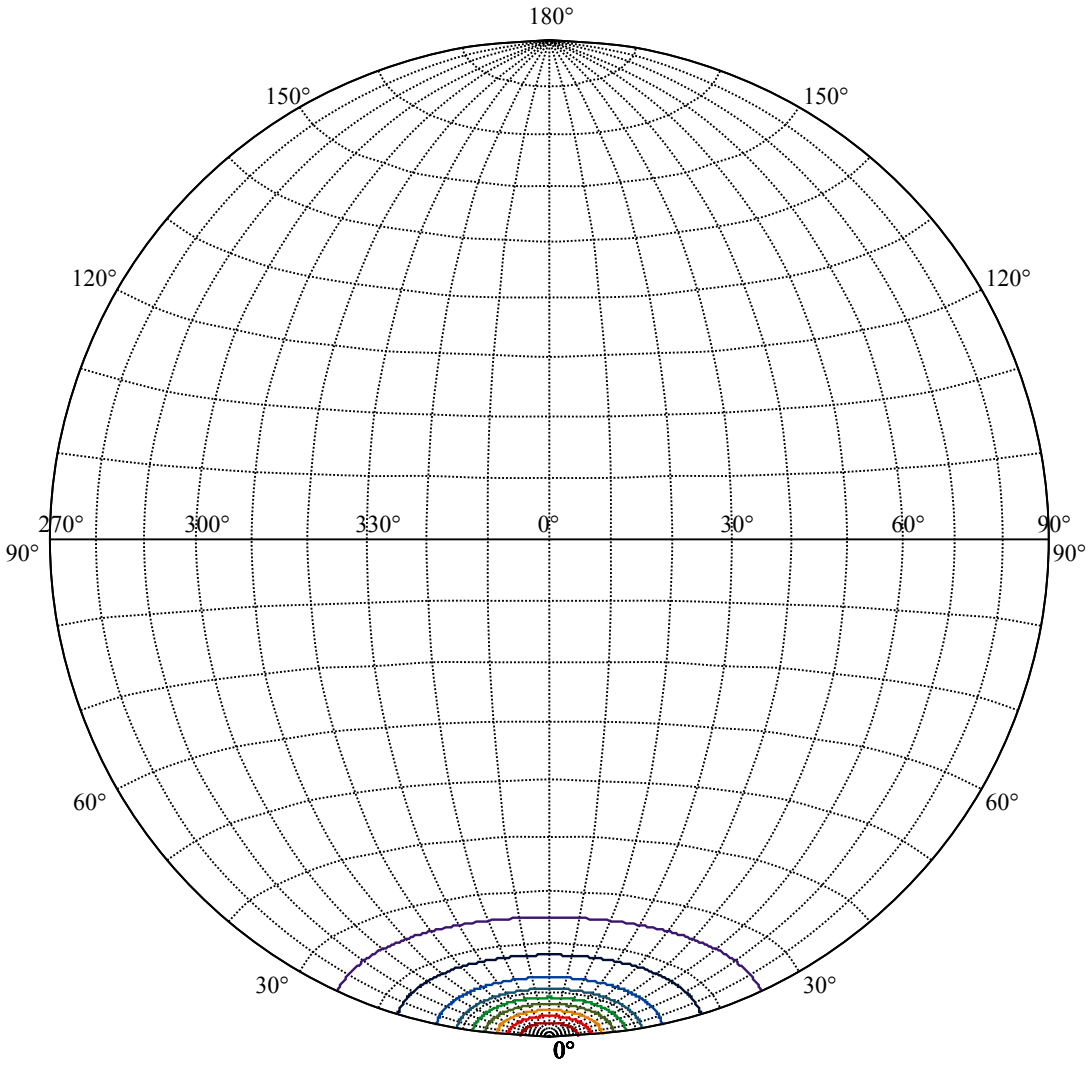


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



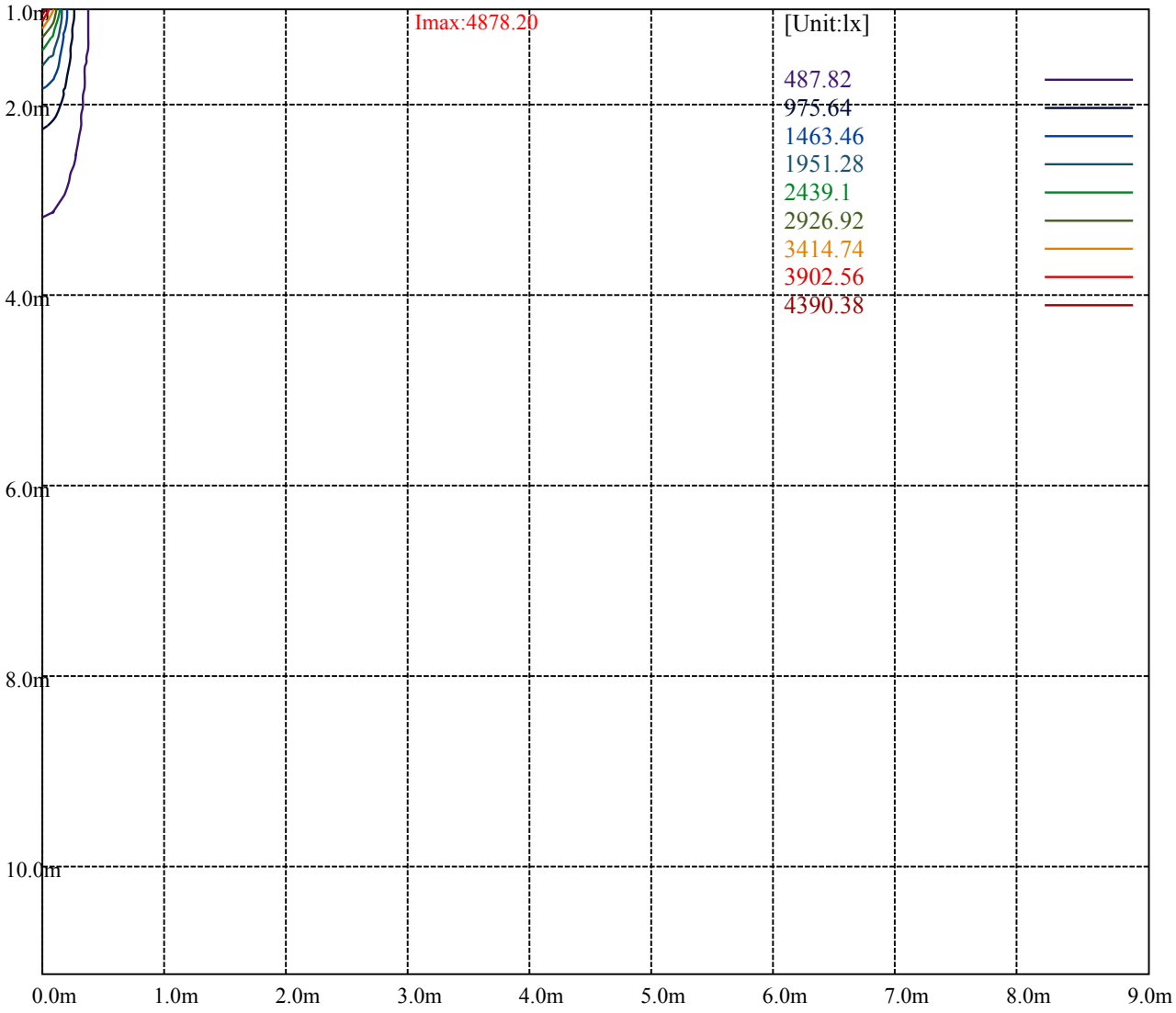
House [Unit:cd] Road

Imax:4878.20

(10%Imax) 487.82
(20%Imax) 975.64
(30%Imax) 1463.46
(40%Imax) 1951.28
(50%Imax) 2439.1
(60%Imax) 2926.92
(70%Imax) 3414.74
(80%Imax) 3902.56
(90%Imax) 4390.38

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

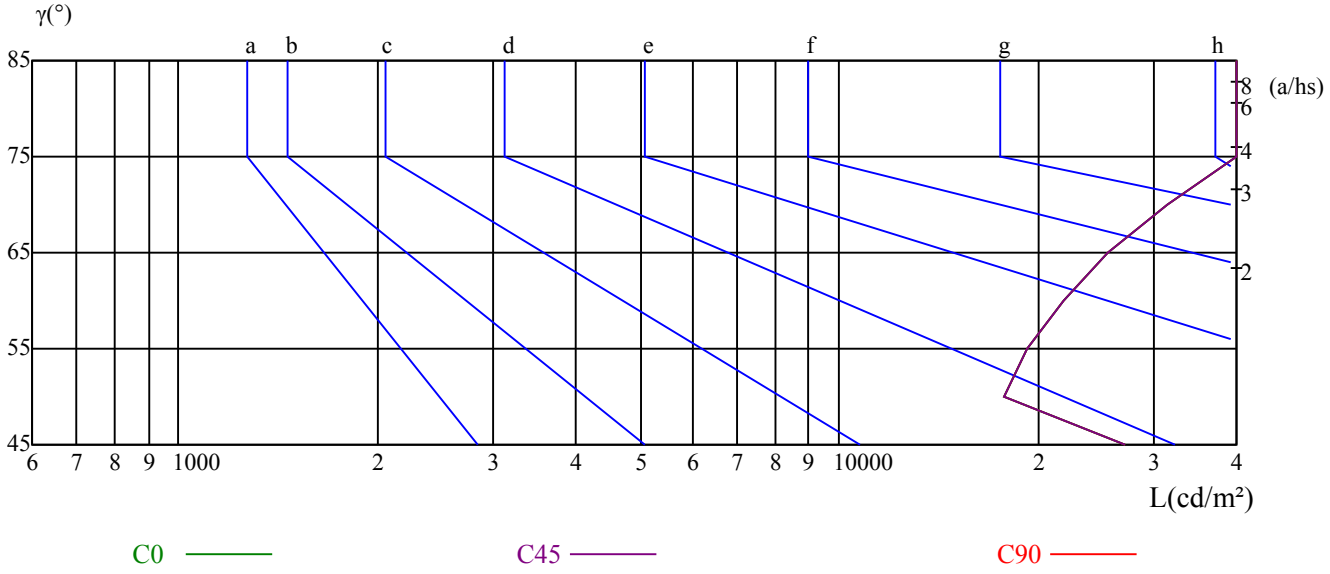
γ	45	50	55	60	65	70	75	80	85
C0	27187	17735	19255	21838	25550	31488	40720	58925	105536
C45	27187	17735	19255	21838	25550	31488	40720	58925	105536
C90	27187	17735	19255	21838	25550	31488	40720	58925	105536

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

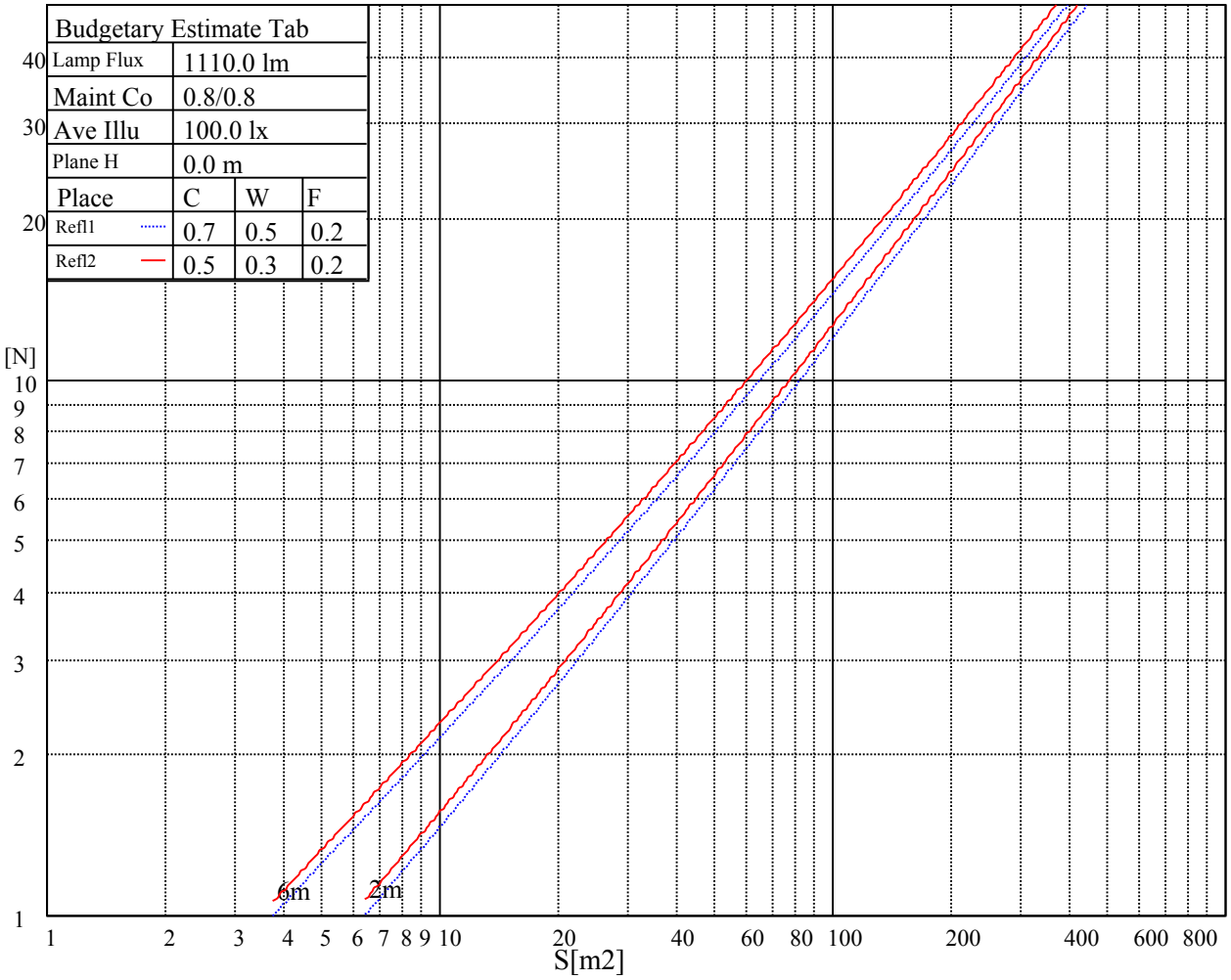
Date: 2024/7/18
Humidity(%): 60.0%

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

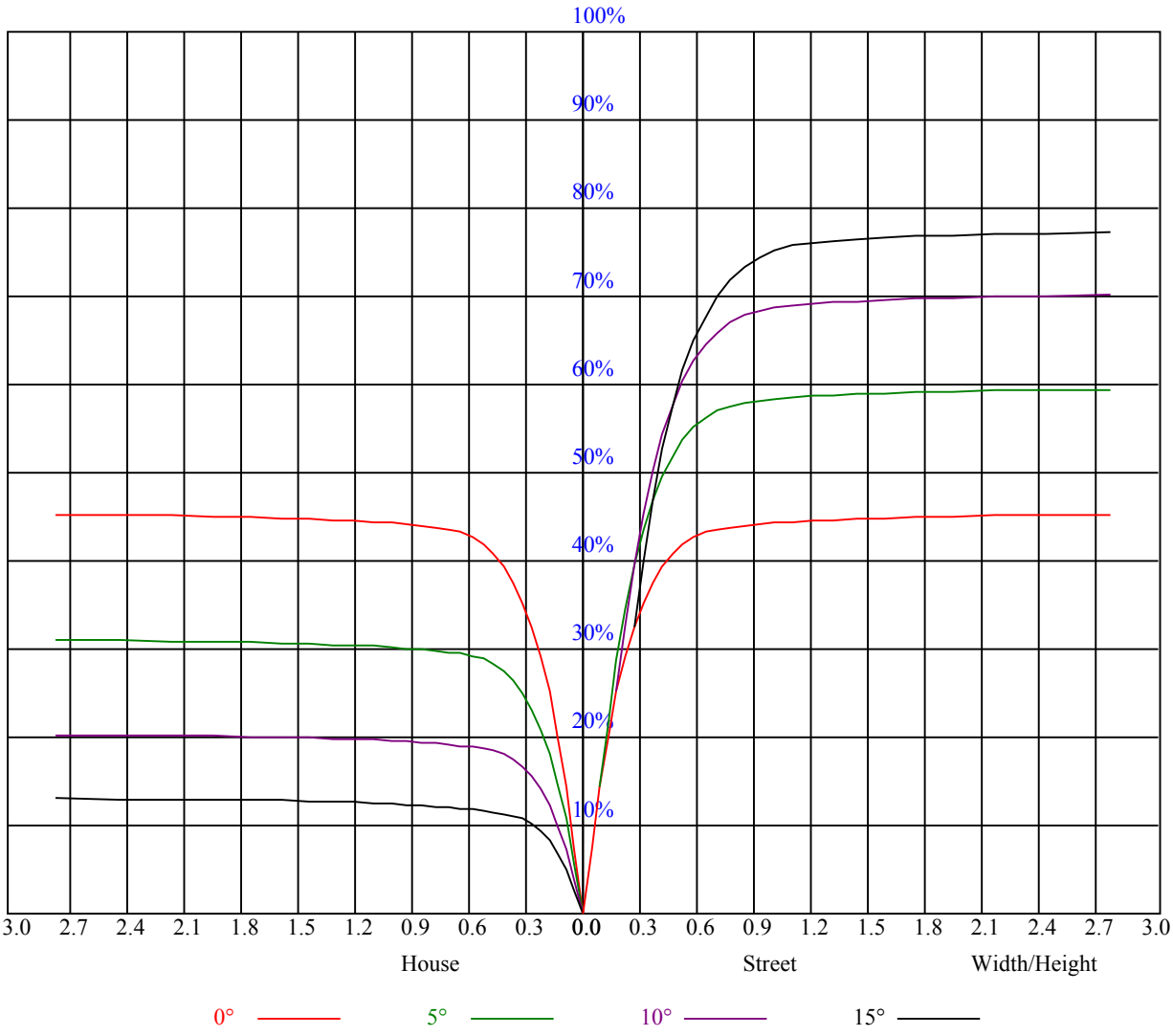


Equipment: GMS1980 Date: 2024/7/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Utilization factor table for indoor luminaire

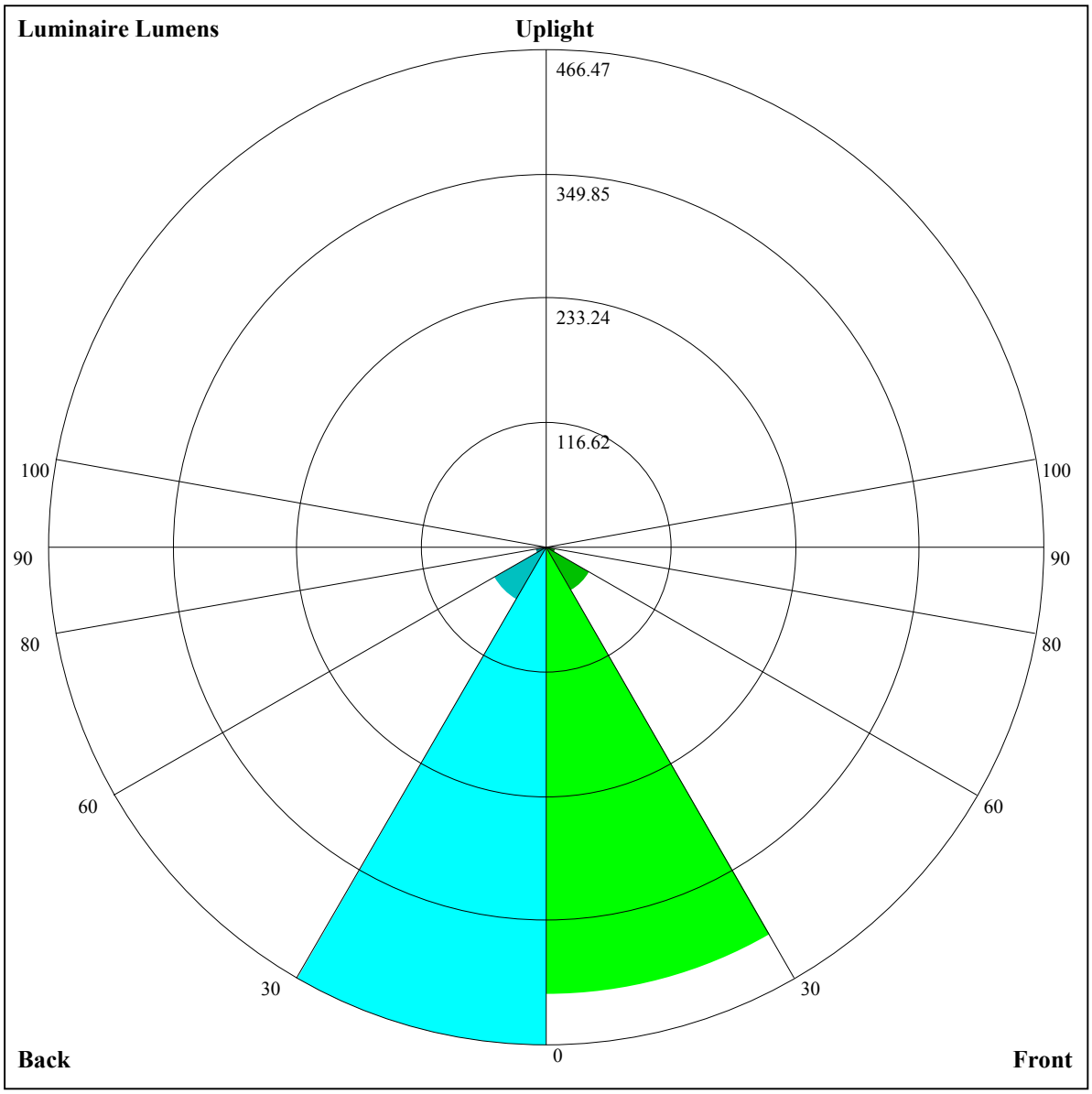
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.09	1.09	1.09	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.02	1.00	0.98	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.86	0.87	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	0.87	0.84	0.88	0.85	0.82	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	0.78	0.82	0.80	0.77	0.81	0.78	0.76	0.75
5	0.83	0.79	0.76	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.72
6	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.73	0.70	0.69
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	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
9	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	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	0.61	0.67	0.63	0.61	0.60

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=418.94,FM=47.64,FH=9.45,FVH=2.75

BL=466.47,BM=56.34,BH=10.26,BVH=2.85

UL=0,UH=0

BUG Rating:B1-U0-G0

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

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	4820.56	4635.04	4379.30	4094.29	3667.66	3308.92	2878.20	2564.51	2284.78
45.0	4939.36	4866.20	4721.07	4427.29	4138.77	3795.83	3347.55	3011.63	2699.70
90.0	4887.27	4753.26	4515.07	4245.28	3926.92	3509.65	3173.15	2837.23	2535.84
135.0	4865.62	4926.48	4894.30	4781.35	4585.30	4240.01	3919.90	3491.51	3135.11
180.0	4820.56	4931.75	4931.16	4842.80	4685.37	4364.67	4069.71	3714.48	3256.25
225.0	4939.36	4929.41	4777.25	4561.89	4271.03	3936.87	3468.10	3088.29	2721.94
270.0	4887.27	4914.19	4848.65	4696.49	4447.77	4075.57	3726.19	3356.91	2894.58
315.0	4865.62	4714.63	4502.19	4210.75	3805.19	3435.91	3077.76	2644.69	2339.79
360.0	4820.56	4635.04	4379.30	4094.29	3667.66	3308.92	2878.20	2564.51	2284.78

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1986.31	1788.51	1622.30	1479.51	1149.97	1149.97	1102.86	1008.87	908.56
45.0	2331.59	2089.90	1873.95	1666.78	1516.38	1376.51	1261.22	1129.54	1032.98
90.0	2195.24	1967.58	1777.39	1610.01	1432.10	1166.41	1166.41	1072.02	983.65
135.0	2809.14	2435.76	2186.46	1962.90	1779.73	1581.92	1435.03	1309.21	1196.84
180.0	2889.90	2553.98	2186.46	1947.10	1748.13	1541.54	1405.18	1288.14	1152.95
225.0	2307.60	2038.40	1815.43	1614.11	1471.90	1158.69	1158.69	1112.75	1019.58
270.0	2556.91	2253.76	1952.95	1748.13	1588.36	1418.06	1298.09	1193.92	1072.19
315.0	2074.10	1813.09	1642.20	1486.53	1161.44	1161.44	1110.93	1019.87	914.24
360.0	1986.31	1788.51	1622.30	1479.51	1149.97	1149.97	1102.86	1008.87	908.56

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	840.09	775.13	711.81	635.44	577.21	513.83	474.15	436.93	386.01
45.0	951.05	873.80	793.62	729.25	668.97	597.57	543.73	489.89	451.85
90.0	906.69	816.04	750.96	688.87	612.09	555.20	507.04	463.62	417.44
135.0	1075.12	992.60	916.52	825.23	760.85	677.75	616.30	555.44	499.26
180.0	1060.49	970.36	898.38	828.74	742.12	690.62	629.76	561.87	505.11
225.0	921.73	848.11	780.05	720.76	649.89	593.30	539.52	487.67	437.22
270.0	984.41	900.13	831.08	745.64	680.68	624.49	561.87	514.47	456.53
315.0	839.91	769.98	689.98	630.17	572.82	518.33	470.64	423.06	385.25
360.0	840.09	775.13	711.81	635.44	577.21	513.83	474.15	436.93	386.01

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	345.69	304.08	254.92	216.18	178.44	143.67	112.07	80.59	64.14
45.0	410.30	365.82	313.74	303.21	303.21	192.83	148.94	116.40	89.31
90.0	375.71	334.63	285.36	244.21	204.42	166.91	127.11	99.55	76.55
135.0	461.22	418.49	374.60	323.10	303.21	303.21	201.49	155.90	122.90
180.0	455.95	414.40	376.36	325.44	295.01	295.01	200.38	163.22	121.26
225.0	399.24	348.21	306.66	268.91	221.16	183.18	146.60	113.30	78.77
270.0	419.08	369.34	328.95	298.52	298.52	192.48	154.97	114.35	86.67
315.0	333.75	292.50	253.93	207.23	171.24	138.11	101.07	76.84	59.99
360.0	345.69	304.08	254.92	216.18	178.44	143.67	112.07	80.59	64.14

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	54.60	47.58	42.72	38.27	33.53	30.61	27.45	25.46	23.64
45.0	69.52	55.36	49.22	42.66	37.92	33.94	30.08	27.45	25.28
90.0	59.93	52.96	47.99	42.60	38.98	35.70	32.95	30.08	28.09
135.0	94.81	72.16	57.12	50.91	46.23	40.97	37.16	33.12	30.37
180.0	93.17	70.05	55.60	46.94	42.84	39.15	34.94	31.95	28.91
225.0	59.58	48.16	42.78	38.04	34.70	30.96	28.44	26.39	24.64
270.0	65.49	52.85	45.12	41.43	38.10	34.94	31.49	29.20	27.27
315.0	50.68	45.06	40.03	36.28	32.83	29.32	26.92	24.87	22.65
360.0	54.60	47.58	42.72	38.27	33.53	30.61	27.45	25.46	23.64

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	22.00	20.31	19.08	18.26	17.50	16.56	16.09	15.68	15.45
45.0	22.88	21.19	19.72	18.49	17.26	16.44	15.63	15.04	14.40
90.0	26.34	24.58	22.94	21.65	20.48	19.61	18.79	17.97	17.44
135.0	28.09	25.52	23.64	22.06	20.78	19.49	18.20	17.26	16.50
180.0	26.80	24.99	23.23	21.77	20.72	19.66	18.43	17.73	17.03
225.0	22.77	21.42	20.07	18.84	17.85	17.09	16.50	15.74	15.22
270.0	25.40	23.94	22.65	21.59	20.60	19.55	19.08	18.43	17.91
315.0	21.19	19.90	18.38	17.50	16.74	15.80	15.22	14.75	14.40
360.0	22.00	20.31	19.08	18.26	17.50	16.56	16.09	15.68	15.45

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	15.10	14.81	14.63	14.40	14.10	13.81	13.52	12.93	12.47
45.0	14.05	13.75	13.40	13.28	13.17	12.87	12.70	12.47	12.00
90.0	16.91	16.50	16.15	15.98	15.68	15.22	14.81	14.22	13.40
135.0	15.68	15.39	14.92	14.51	14.22	14.05	13.75	13.40	13.11
180.0	16.44	15.86	15.57	15.22	14.75	14.57	14.40	14.22	13.99
225.0	14.86	14.57	14.22	13.99	13.99	14.05	14.05	13.87	13.81
270.0	17.38	17.09	16.74	16.44	16.33	16.04	15.74	15.51	15.33
315.0	13.99	13.75	13.64	13.58	13.34	13.11	12.87	12.47	11.94
360.0	15.10	14.81	14.63	14.40	14.10	13.81	13.52	12.93	12.47

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.76	11.18	10.59	10.12	9.48	9.07	8.72	8.25	7.96
45.0	11.53	11.00	10.53	9.89	9.48	9.13	8.72	8.43	8.19
90.0	12.58	11.82	11.00	10.36	9.95	9.42	9.13	8.78	8.13
135.0	12.76	12.00	11.53	11.00	10.48	9.83	9.48	9.07	8.66
180.0	13.81	13.28	12.76	12.35	11.88	11.24	10.83	10.48	10.01
225.0	13.64	13.23	12.99	12.70	12.35	12.00	11.70	11.35	11.00
270.0	14.81	14.34	14.22	13.58	13.11	13.05	12.58	12.06	11.12
315.0	11.35	10.94	10.48	10.07	9.71	9.36	8.95	8.43	7.96
360.0	11.76	11.18	10.59	10.12	9.48	9.07	8.72	8.25	7.96

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.67	7.37	7.14	6.85	6.67	6.44	6.26	6.03	5.85
45.0	7.72	7.37	7.08	6.85	6.61	6.44	6.26	6.03	5.85
90.0	7.55	7.20	6.96	6.79	6.50	6.32	6.09	5.91	5.68
135.0	8.37	7.96	7.72	7.49	7.20	6.96	6.73	6.55	6.26
180.0	9.42	8.84	8.19	7.84	7.55	7.32	7.02	6.85	6.61
225.0	9.36	8.31	7.72	7.32	7.02	6.73	6.50	6.26	6.09
270.0	9.54	8.54	7.96	7.49	7.20	6.91	6.61	6.38	6.14
315.0	7.67	7.32	7.02	6.79	6.50	6.32	6.09	5.79	5.68
360.0	7.67	7.37	7.14	6.85	6.67	6.44	6.26	6.03	5.85

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.74	5.56	5.38	5.27	5.15	4.86	4.74	4.56	4.51
45.0	5.68	5.50	5.33	5.15	5.03	4.86	4.62	4.51	4.39
90.0	5.56	5.38	5.21	5.09	4.92	4.62	4.56	4.45	4.33
135.0	6.09	5.85	5.68	5.38	5.33	5.09	4.80	4.62	4.56
180.0	6.38	6.14	5.97	5.79	5.62	5.44	5.15	5.03	4.80
225.0	5.85	5.68	5.50	5.33	5.15	4.80	4.62	4.51	4.45
270.0	5.97	5.74	5.56	5.38	5.21	4.92	4.68	4.51	4.39
315.0	5.56	5.33	5.21	5.09	4.97	4.62	4.51	4.39	4.39
360.0	5.74	5.56	5.38	5.27	5.15	4.86	4.74	4.56	4.51

Intensity data(cd)

C/γ(°)	90.0
0.0	4.51
45.0	4.39
90.0	4.39
135.0	4.45
180.0	4.80
225.0	4.39
270.0	4.39
315.0	4.33
360.0	4.51