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: 2-2519-L
Luminaire: 92.70.412.00
Report No: 2024807-B009
Ballast type: AC

Test No: 2024807-C009	Voltage(V): 34.980
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.450
Lamp flux(lm): 2561.0	Power (W): 15.741
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2361.44, Efficiency(%): 92.21% , Luminous Efficacy(lm/W): 150.02
Central intensity(cd): 8112.155, Maximum intensity(cd): 8112.155
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.6
[C90/270]Total=25.6
Field angle(10%Imax): [C0/180]Total=56.0
[C90/270]Total=56.0
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
Maximum s/h(1/4): C0_180=0.46 C90_270=0.46
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.21%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.860%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8112.155	0.000	0	0.00%	0.00%
1.0	8073.969	7.745	7.745	0.30%	0.33%
2.0	7966.434	23.023	30.767	0.90%	1.30%
3.0	7791.232	37.687	68.455	1.47%	2.90%
4.0	7531.539	51.290	119.745	2.00%	5.07%
5.0	7250.631	63.592	183.337	2.48%	7.76%
6.0	6903.812	74.385	257.722	2.90%	10.91%
7.0	6522.537	83.337	341.059	3.25%	14.44%
8.0	6106.589	90.384	431.444	3.53%	18.27%
9.0	5679.740	95.522	526.965	3.73%	22.32%
10.0	5231.897	98.746	625.712	3.86%	26.50%
11.0	4804.902	100.288	726	3.92%	30.74%
12.0	4364.374	100.233	826.233	3.91%	34.99%
13.0	3966.787	98.870	925.103	3.86%	39.18%
14.0	3588.512	96.707	1021.81	3.78%	43.27%
15.0	3245.936	93.826	1115.637	3.66%	47.24%
16.0	2939.717	90.637	1206.274	3.54%	51.08%
17.0	2653.615	87.103	1293.377	3.40%	54.77%
18.0	2407.089	83.440	1376.817	3.26%	58.30%
19.0	2185.435	79.901	1456.718	3.12%	61.69%
20.0	1975.559	76.158	1532.875	2.97%	64.91%
21.0	1781.410	72.141	1605.017	2.82%	67.97%
22.0	1613.816	68.229	1673.245	2.66%	70.86%
23.0	1391.446	63.059	1736.304	2.46%	73.53%
24.0	1275.293	58.304	1794.608	2.28%	76.00%
25.0	1171.277	55.630	1850.238	2.17%	78.35%
26.0	1046.821	52.358	1902.596	2.04%	80.57%
27.0	928.079	48.316	1950.913	1.89%	82.62%
28.0	805.401	43.888	1994.801	1.71%	84.47%
29.0	700.353	39.395	2034.196	1.54%	86.14%
30.0	598.729	35.075	2069.271	1.37%	87.63%
31.0	510.638	30.872	2100.143	1.21%	88.93%
32.0	430.967	26.976	2127.119	1.05%	90.08%
33.0	359.906	23.299	2150.418	0.91%	91.06%
34.0	293.476	19.773	2170.191	0.77%	91.90%
35.0	250.337	16.889	2187.08	0.66%	92.62%
36.0	232.583	15.376	2202.456	0.60%	93.27%
37.0	163.753	12.926	2215.383	0.50%	93.81%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	131.112	9.842	2225.225	0.38%	94.23%
39.0	108.208	8.169	2233.394	0.32%	94.58%
40.0	91.493	6.965	2240.358	0.27%	94.87%
41.0	78.566	6.056	2246.414	0.24%	95.13%
42.0	69.188	5.368	2251.782	0.21%	95.36%
43.0	61.734	4.850	2256.632	0.19%	95.56%
44.0	56.057	4.446	2261.078	0.17%	95.75%
45.0	51.471	4.132	2265.21	0.16%	95.93%
46.0	47.857	3.884	2269.095	0.15%	96.09%
47.0	44.580	3.676	2272.771	0.14%	96.25%
48.0	41.873	3.495	2276.266	0.14%	96.39%
49.0	39.539	3.343	2279.609	0.13%	96.53%
50.0	37.520	3.213	2282.822	0.13%	96.67%
51.0	35.750	3.100	2285.922	0.12%	96.80%
52.0	34.323	3.007	2288.929	0.12%	96.93%
53.0	33.080	2.932	2291.861	0.11%	97.05%
54.0	32.034	2.870	2294.731	0.11%	97.18%
55.0	31.105	2.818	2297.549	0.11%	97.29%
56.0	30.212	2.771	2300.32	0.11%	97.41%
57.0	29.342	2.723	2303.043	0.11%	97.53%
58.0	28.471	2.673	2305.716	0.10%	97.64%
59.0	27.571	2.620	2308.336	0.10%	97.75%
60.0	26.642	2.561	2310.898	0.10%	97.86%
61.0	25.647	2.495	2313.393	0.10%	97.97%
62.0	24.689	2.426	2315.819	0.09%	98.07%
63.0	23.731	2.355	2318.174	0.09%	98.17%
64.0	22.912	2.289	2320.462	0.09%	98.26%
65.0	22.063	2.226	2322.688	0.09%	98.36%
66.0	21.244	2.161	2324.849	0.08%	98.45%
67.0	20.424	2.095	2326.944	0.08%	98.54%
68.0	19.649	2.030	2328.974	0.08%	98.63%
69.0	18.874	1.965	2330.939	0.08%	98.71%
70.0	18.142	1.901	2332.84	0.07%	98.79%
71.0	17.454	1.840	2334.68	0.07%	98.87%
72.0	16.708	1.776	2336.456	0.07%	98.94%
73.0	16.035	1.712	2338.169	0.07%	99.01%
74.0	15.435	1.654	2339.823	0.06%	99.08%
75.0	14.909	1.603	2341.426	0.06%	99.15%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.448	1.558	2342.985	0.06%	99.22%
77.0	14.023	1.518	2344.503	0.06%	99.28%
78.0	13.665	1.482	2345.985	0.06%	99.35%
79.0	13.321	1.450	2347.435	0.06%	99.41%
80.0	12.970	1.417	2348.852	0.06%	99.47%
81.0	12.641	1.385	2350.237	0.05%	99.53%
82.0	12.341	1.355	2351.592	0.05%	99.58%
83.0	12.041	1.325	2352.917	0.05%	99.64%
84.0	11.756	1.296	2354.214	0.05%	99.69%
85.0	11.536	1.271	2355.485	0.05%	99.75%
86.0	11.222	1.244	2356.729	0.05%	99.80%
87.0	10.995	1.216	2357.945	0.05%	99.85%
88.0	10.724	1.190	2359.135	0.05%	99.90%
89.0	10.483	1.162	2360.297	0.05%	99.95%
90.0	10.329	1.141	2361.438	0.04%	100.00%

Zonal flux distribution table

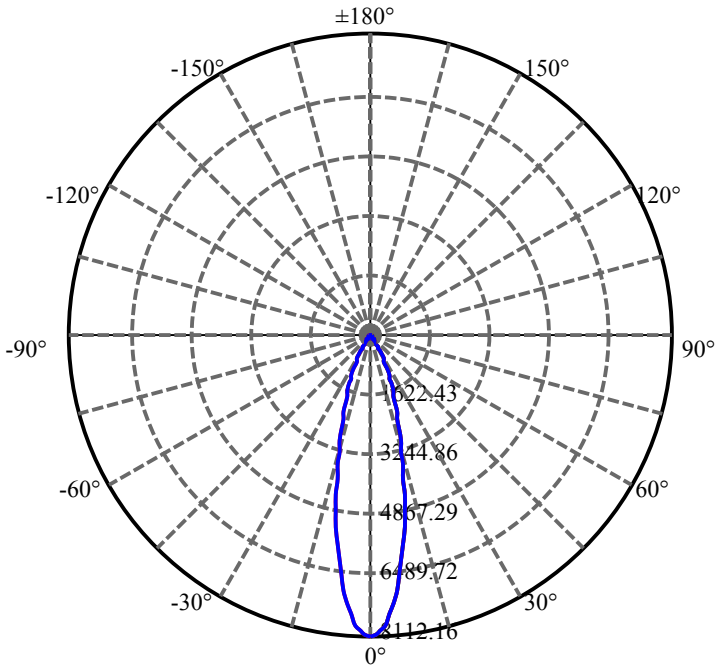
ZONAL LUMEN SUMMARY

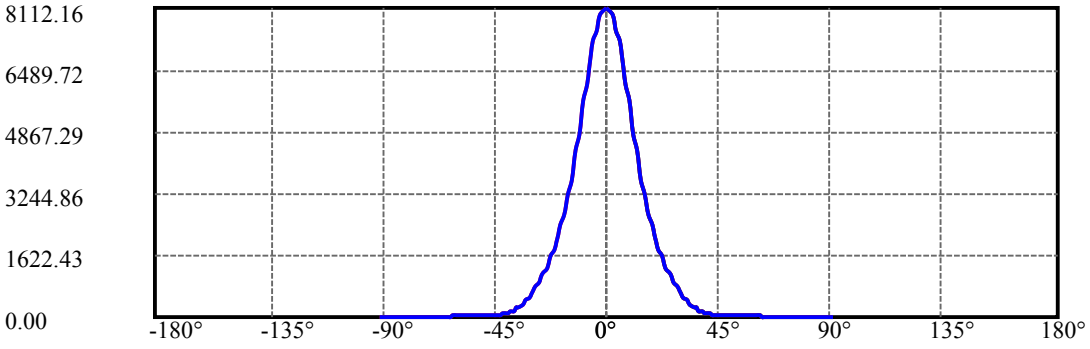
Zone	Lumens	%Lamp	%Fixt
0-30	2069.27	80.80%	87.63%
0-40	2240.36	87.48%	94.87%
0-60	2310.90	90.23%	97.86%
0-90	2360.30	92.16%	99.95%
0-120	2360.30	92.16%	99.95%
0-180	2361.44	92.21%	100.00%
60-90	49.40	1.93%	2.09%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.74	1889.15	73.77%	80.00%

ZONAL LUMEN SUMMARY

0-10	625.71
10-20	907.16
20-30	536.40
30-40	171.09
40-50	42.46
50-60	28.08
60-70	21.94
70-80	16.01
80-90	11.44
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:

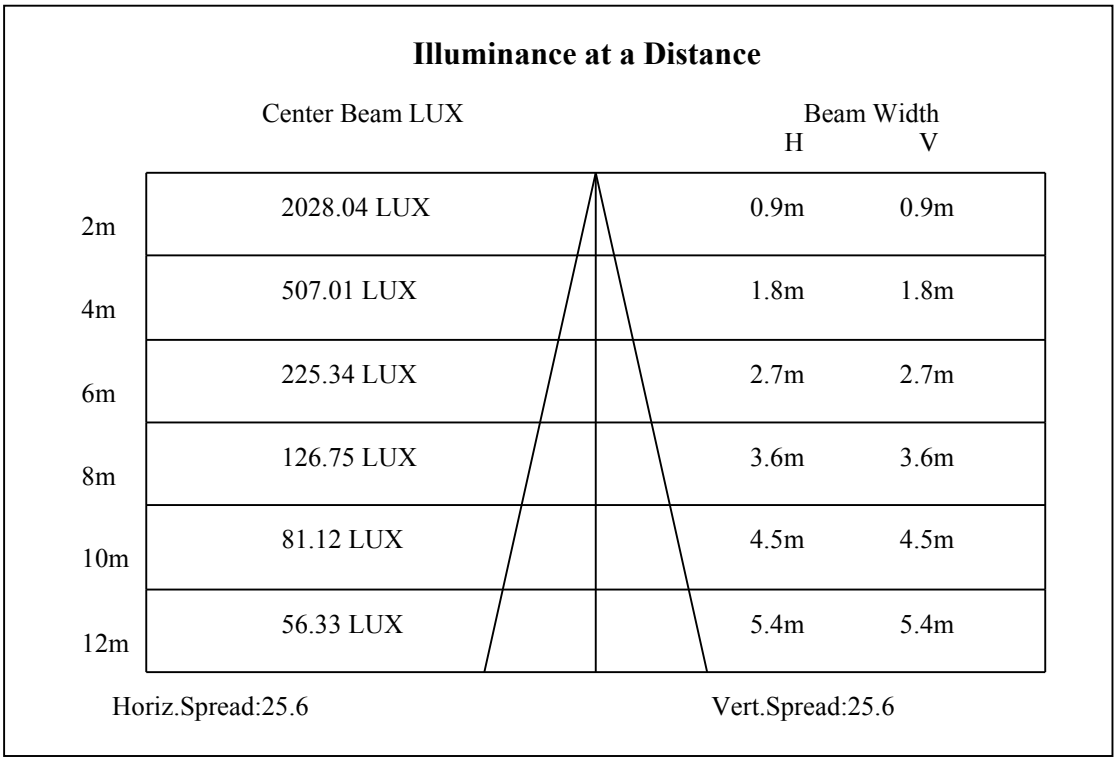
C90/C270:

Field angle(10%Imax):C0/180Left:28.0 Right:28.0
:C90/270Left:28.0 Right:28.0

Beam Angle(50%Imax):C0/180Left:12.8 Right:12.8
:C90/270Left:12.8 Right:12.8

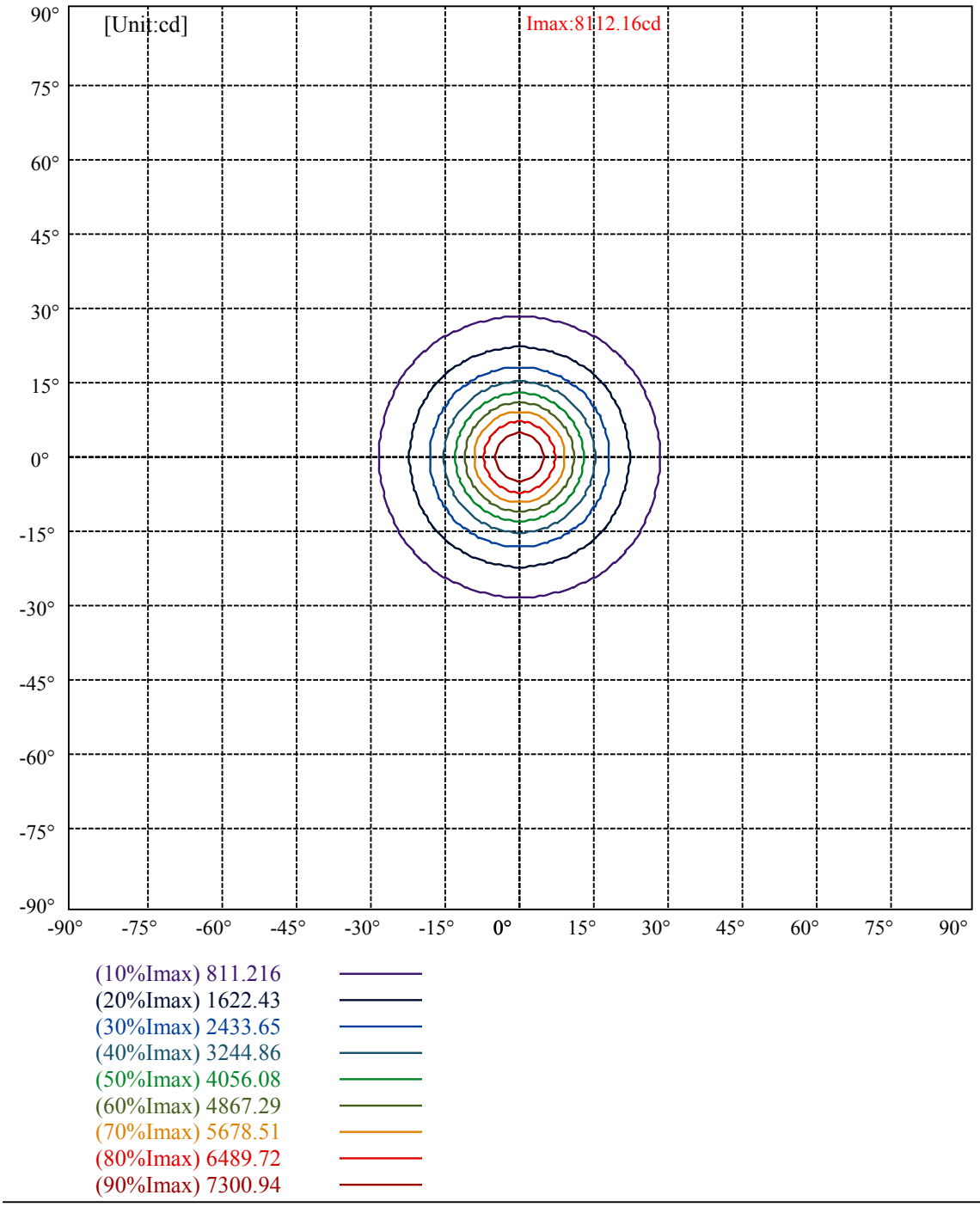
Equipment: GMS1980 Date: 2024/8/7 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Lux distance Curve



Equipment: GMS1980 Date: 2024/8/7 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

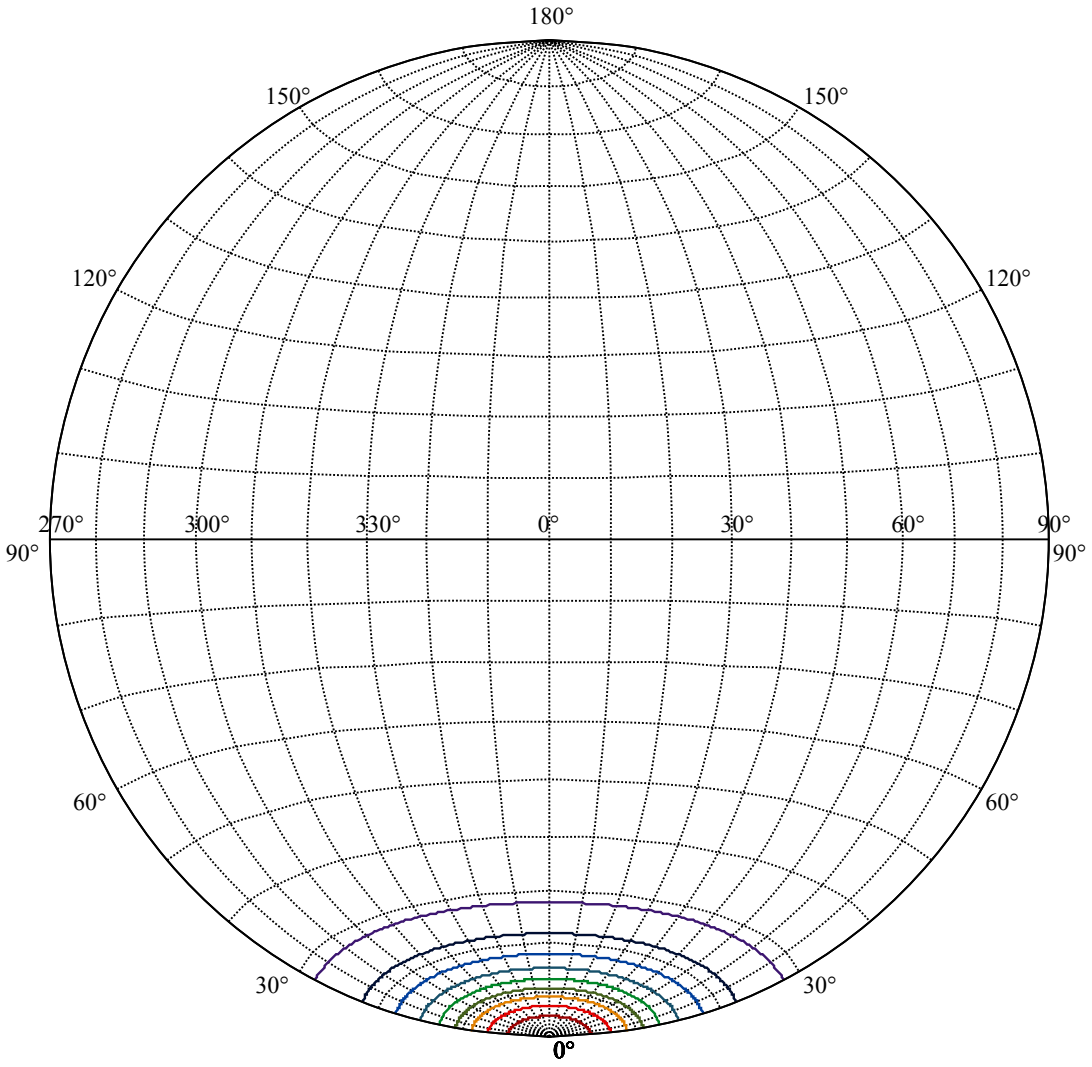


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/7
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



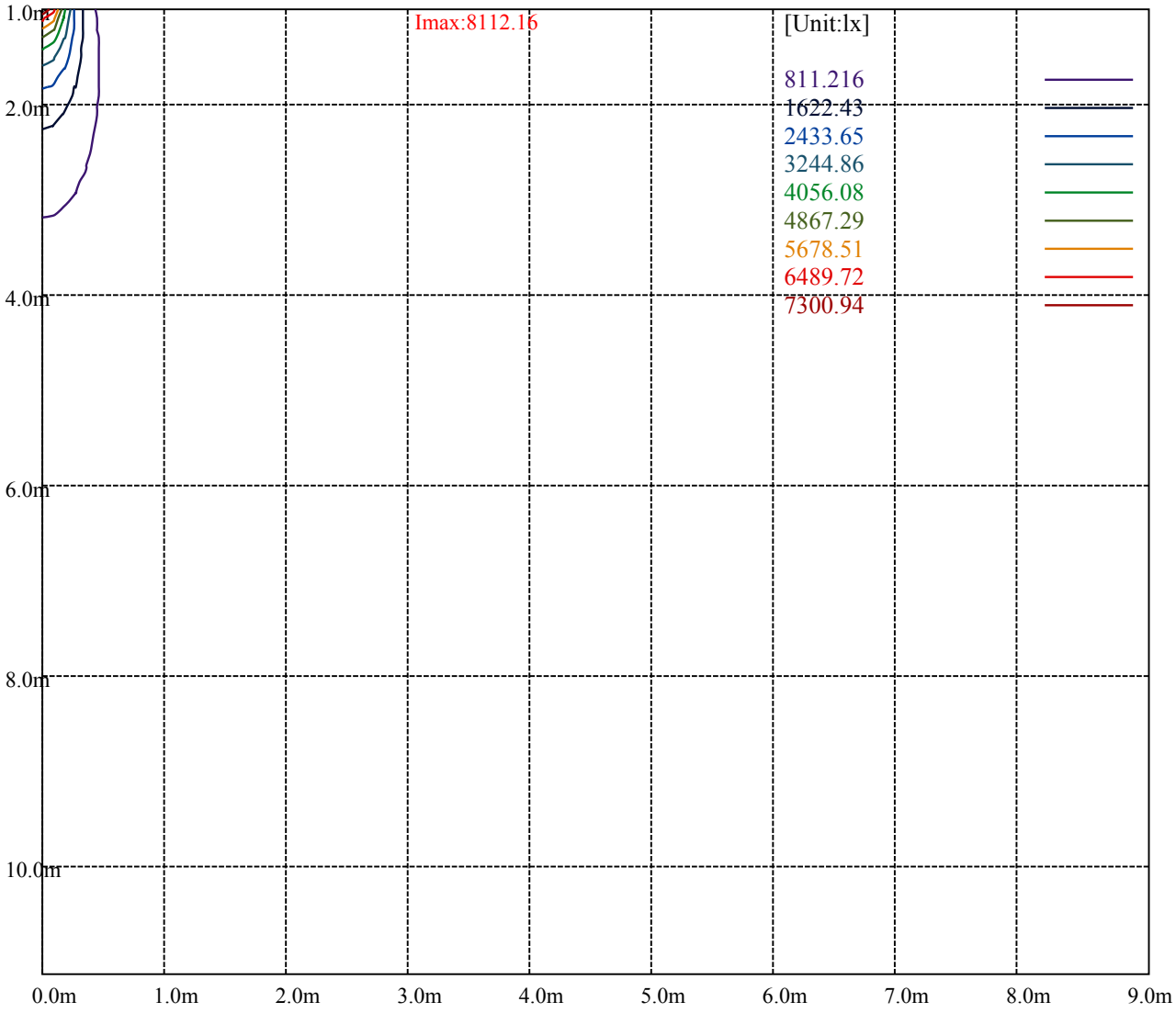
[Unit:cd]

Imax:8112.16

(10%Imax) 811.216
(20%Imax) 1622.43
(30%Imax) 2433.65
(40%Imax) 3244.86
(50%Imax) 4056.08
(60%Imax) 4867.29
(70%Imax) 5678.51
(80%Imax) 6489.72
(90%Imax) 7300.94

Equipment: GMS1980	Date: 2024/8/7	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/7
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 2-2519-L

Luminance Limitting Curve(no luminous side)

Luminance Table

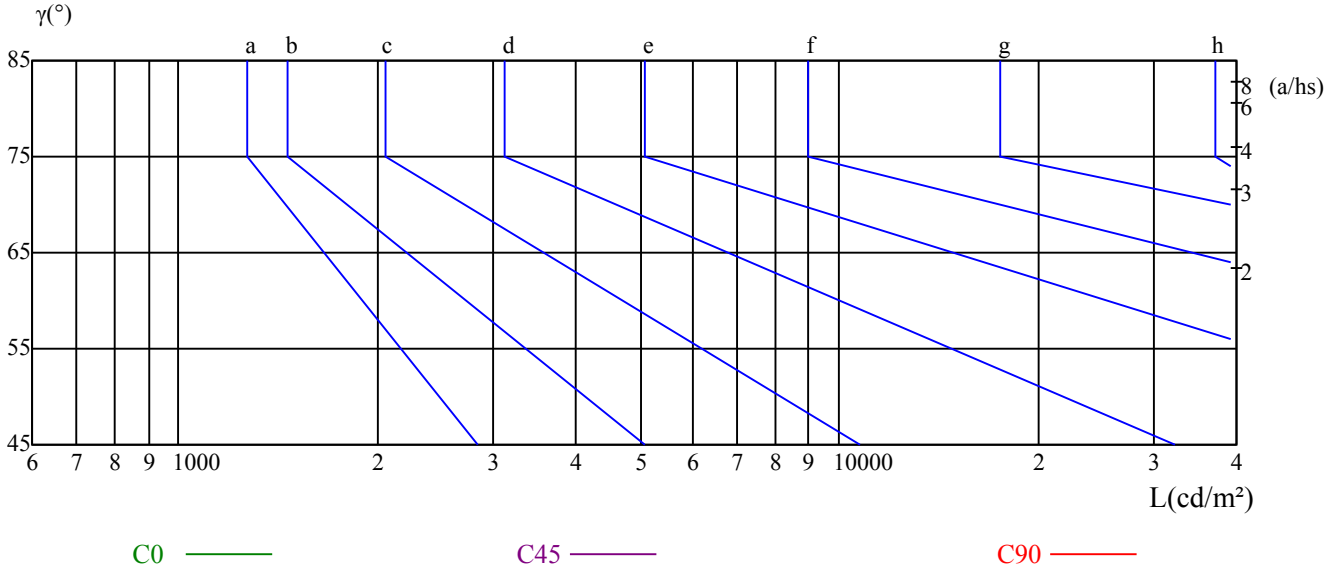
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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



Equipment: GMS1980
Temperature(°C): 25.0

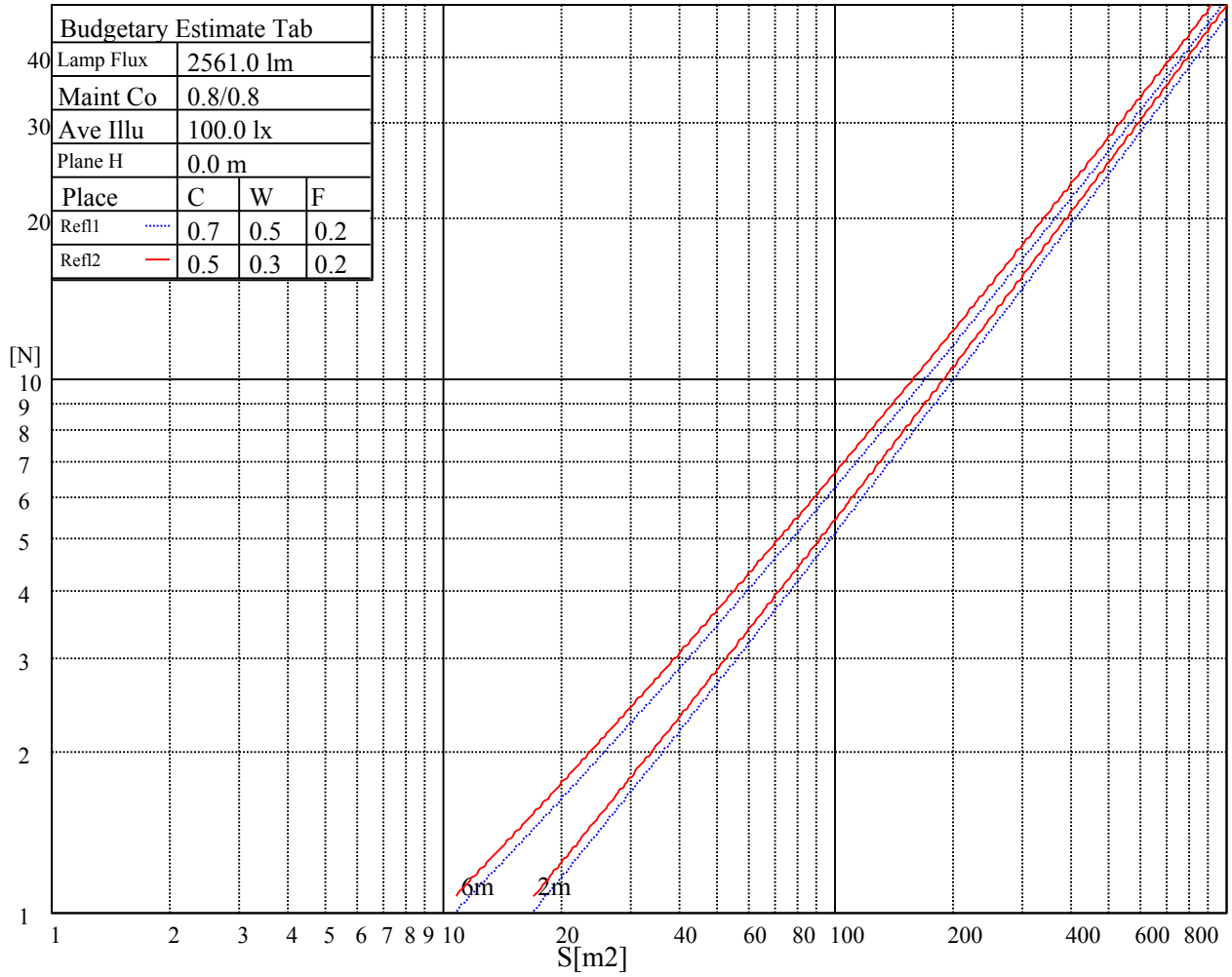
Date: 2024/8/7
Humidity(%): 60.0%

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

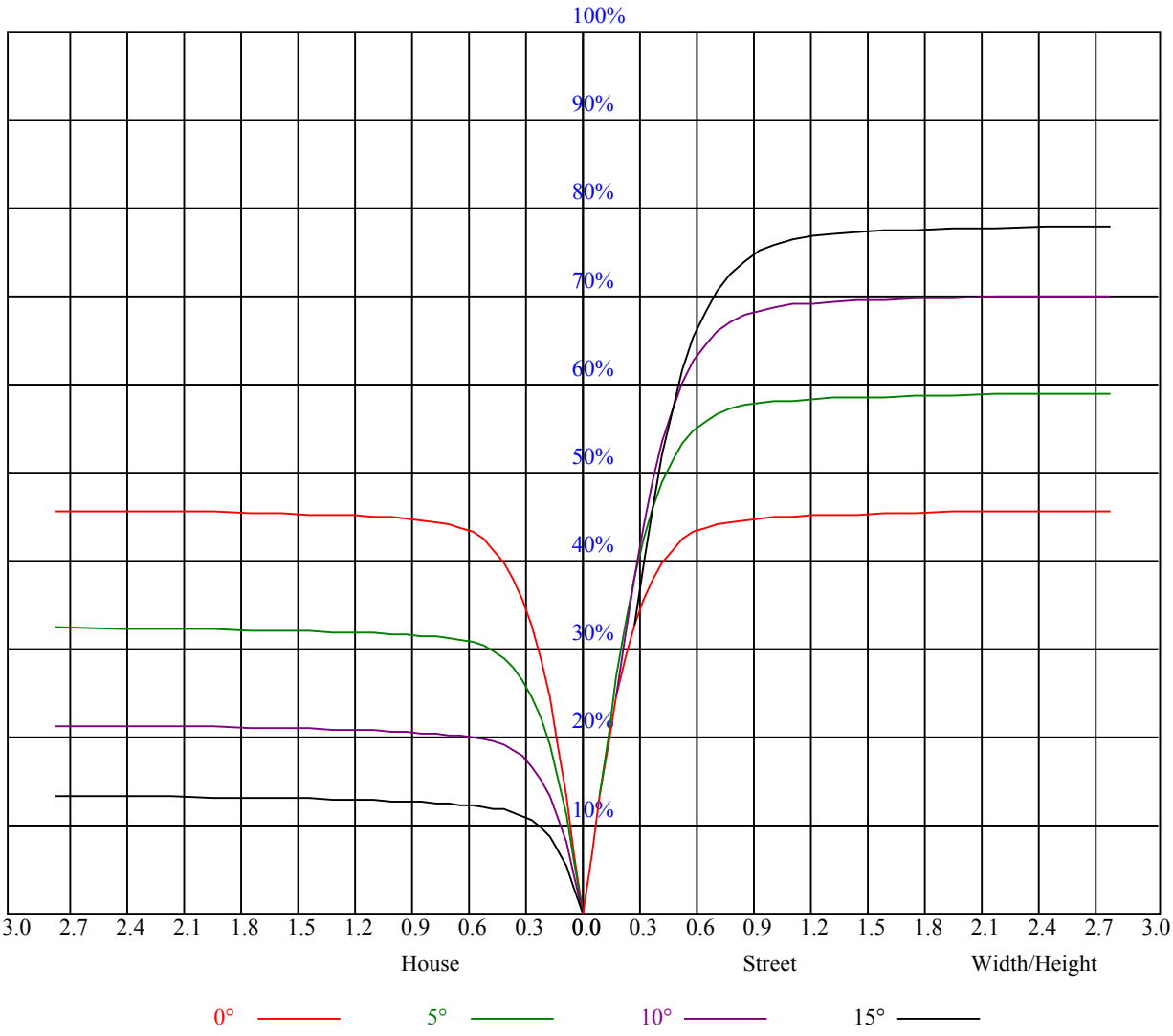


Equipment: GMS1980 Date: 2024/8/7 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Utilization factor table for indoor luminaire

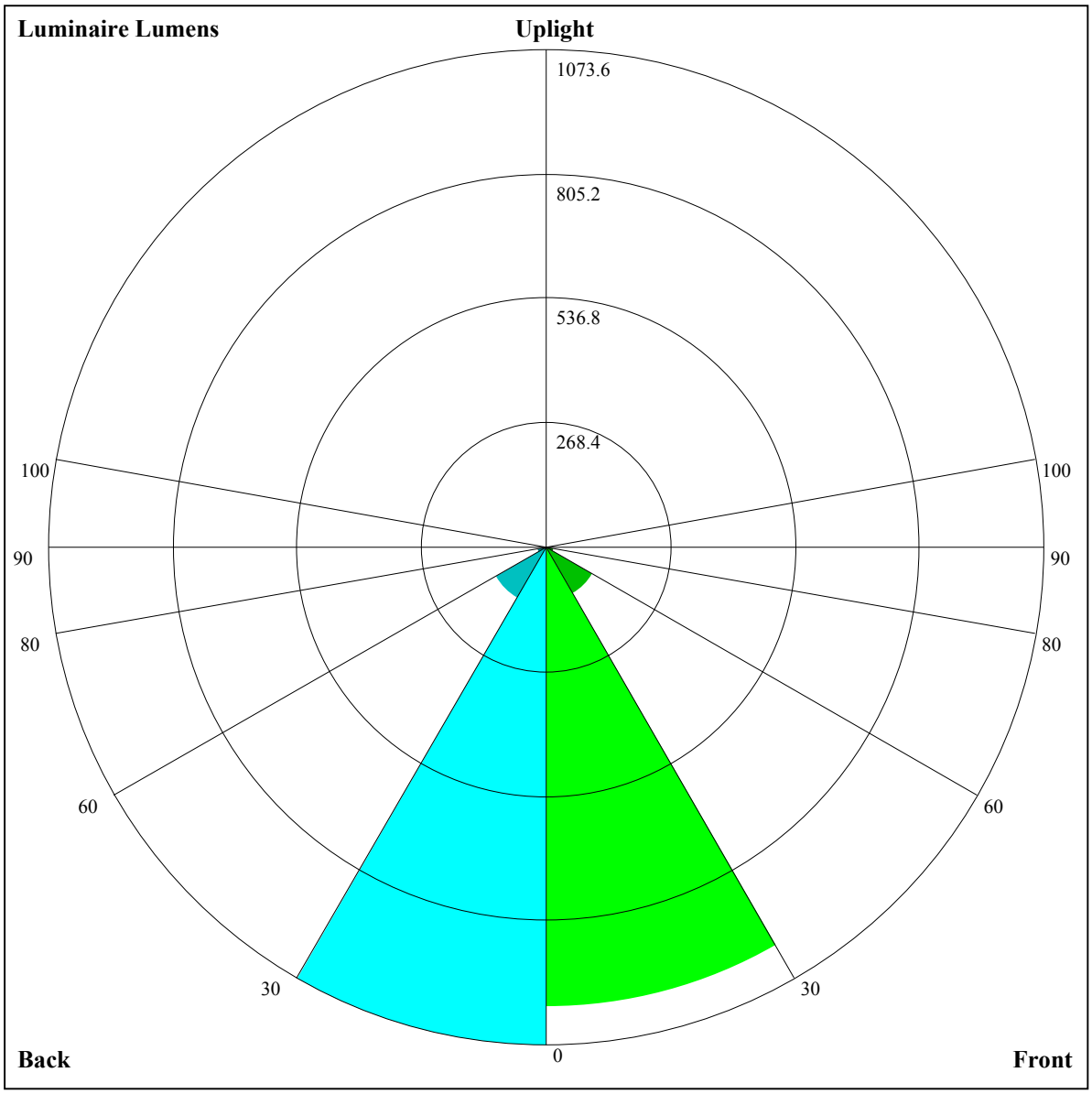
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.96	0.94	0.94	0.93	0.92	0.91	0.90	0.89	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	0.87	0.86	0.85	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	0.81	0.79
4	0.88	0.83	0.80	0.87	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	0.78	0.76	0.74	0.72
6	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
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	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.62
10	0.69	0.64	0.61	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.60

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/8/7	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

LCS Graph



Luminaire Lumens:
FL=993.36,FM=114.17,FH=18.59,FVH=6.21
BL=1073.6,BM=128.04,BH=19.17,BVH=6.37
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	8091.38	7968.48	7791.16	7545.95	7179.01	6835.49	6480.25	5978.72	5573.16
45.0	8143.46	8110.69	8025.25	7806.37	7582.23	7302.50	6895.18	6522.39	6049.53
90.0	8107.18	8010.03	7805.79	7608.57	7355.75	7052.02	6645.29	6258.45	5827.14
135.0	8106.60	8121.81	8073.82	7959.70	7742.59	7524.88	7220.56	6907.47	6558.09
180.0	8091.38	8123.57	8091.96	7984.28	7816.32	7578.72	7334.68	7052.60	6624.22
225.0	8143.46	8094.89	8005.94	7835.64	7599.79	7322.39	6926.78	6565.11	6202.27
270.0	8107.18	8130.59	8101.33	8009.45	7750.78	7488.60	7184.87	6761.75	6383.11
315.0	8106.60	8031.69	7836.22	7579.89	7225.83	6900.45	6542.87	6133.80	5635.19
360.0	8091.38	7968.48	7791.16	7545.95	7179.01	6835.49	6480.25	5978.72	5573.16

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5163.50	4654.94	4252.30	3881.86	3464.59	3166.71	2883.46	2632.99	2353.83
45.0	5631.68	5217.34	4791.30	4294.44	3931.01	3588.66	3271.47	2909.80	2656.98
90.0	5402.27	4847.48	4433.72	4053.91	3712.73	3317.11	3006.36	2680.97	2452.74
135.0	6069.43	5649.82	5235.48	4800.07	4300.29	3931.60	3585.15	3259.18	2883.46
180.0	6257.87	5769.21	5350.77	4935.85	4517.41	4021.72	3670.00	3332.33	3014.55
225.0	5700.74	5288.74	4864.45	4350.04	3964.37	3604.46	3205.92	2921.50	2659.32
270.0	5986.91	5604.76	5092.10	4678.35	4261.67	3887.71	3445.86	3135.69	2839.57
315.0	5225.53	4822.90	4419.09	3920.48	3582.22	3190.12	2899.26	2645.28	2368.46
360.0	5163.50	4654.94	4252.30	3881.86	3464.59	3166.71	2883.46	2632.99	2353.83

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2151.93	1960.56	1782.65	1587.19	1444.39	1155.00	1155.00	1041.41	904.00
45.0	2436.94	2227.42	1990.99	1808.99	1615.86	1473.07	1344.32	1190.41	1075.12
90.0	2243.81	1993.92	1815.43	1653.90	1504.67	1145.05	1145.05	1088.23	977.27
135.0	2629.47	2413.53	2152.52	1959.39	1787.92	1596.55	1449.66	1315.06	1158.80
180.0	2676.88	2442.79	2215.72	2011.48	1792.02	1627.57	1448.49	1318.57	1186.31
225.0	2423.48	2157.78	1959.98	1779.14	1619.96	1437.96	1151.31	1151.31	1037.14
270.0	2536.42	2319.89	2096.92	1863.41	1698.38	1538.03	1350.17	1223.18	1104.96
315.0	2157.78	1967.58	1790.26	1587.77	1447.32	1158.34	1158.34	1042.05	930.98
360.0	2151.93	1960.56	1782.65	1587.19	1444.39	1155.00	1155.00	1041.41	904.00

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	794.33	692.26	579.84	500.07	427.62	359.39	285.24	234.85	192.48
45.0	962.17	822.30	716.37	619.81	535.54	440.15	370.51	309.64	295.60
90.0	841.61	734.81	638.83	531.09	454.90	385.78	308.53	257.15	203.54
135.0	1040.59	925.30	815.86	690.62	598.16	515.06	440.15	355.29	296.18
180.0	1047.61	931.15	818.79	692.38	596.99	515.06	440.15	355.88	297.35
225.0	926.35	792.63	688.75	597.11	493.64	418.96	350.61	291.27	229.99
270.0	990.26	850.98	747.39	645.56	557.78	460.63	390.40	313.15	299.11
315.0	821.71	693.78	596.99	513.18	420.48	352.72	293.67	230.58	188.44
360.0	794.33	692.26	579.84	500.07	427.62	359.39	285.24	234.85	192.48

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	158.19	124.65	104.17	88.02	74.09	66.31	60.51	54.89	51.27
45.0	295.60	164.33	136.36	110.02	94.16	82.11	70.93	63.85	58.35
90.0	170.36	143.56	121.20	104.11	87.61	77.31	69.17	62.50	56.36
135.0	296.18	190.49	157.95	126.23	107.33	92.93	81.64	71.22	64.73
180.0	297.35	237.07	160.18	133.49	111.84	91.18	79.24	69.93	61.27
225.0	189.85	157.60	131.27	105.46	89.13	76.96	67.59	59.11	54.07
270.0	299.11	166.09	137.76	114.06	95.22	77.83	68.00	60.57	55.19
315.0	154.03	126.23	100.01	84.27	72.57	63.91	56.42	51.79	47.23
360.0	158.19	124.65	104.17	88.02	74.09	66.31	60.51	54.89	51.27

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	48.16	44.59	42.31	40.26	38.51	36.69	35.41	34.41	33.47
45.0	53.08	49.63	46.58	44.07	41.20	39.33	37.75	36.34	34.94
90.0	52.32	48.81	45.30	42.84	40.03	38.39	36.81	35.11	34.00
135.0	59.28	54.78	50.04	46.76	44.07	40.97	38.86	37.28	35.29
180.0	56.12	51.68	46.94	43.77	41.08	38.74	36.17	34.53	33.18
225.0	48.92	45.53	42.84	40.15	38.16	36.34	34.70	32.89	31.78
270.0	49.80	46.23	43.07	39.85	37.51	35.29	33.24	31.84	30.55
315.0	44.07	41.61	39.56	37.28	35.76	34.41	33.07	32.19	31.43
360.0	48.16	44.59	42.31	40.26	38.51	36.69	35.41	34.41	33.47

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	32.48	31.66	30.72	29.67	28.73	27.45	26.39	25.46	24.52
45.0	34.00	33.07	32.01	31.02	29.90	28.91	27.74	26.69	25.52
90.0	33.07	31.78	30.78	29.61	28.68	27.56	26.57	25.34	24.17
135.0	34.06	33.18	32.01	31.25	30.43	29.50	28.73	27.86	26.80
180.0	32.01	30.90	30.20	29.44	28.68	28.03	27.21	26.45	25.63
225.0	30.78	29.85	28.79	28.03	27.21	26.34	25.46	24.40	23.64
270.0	29.32	28.44	27.86	27.15	26.22	25.69	24.99	23.99	23.12
315.0	30.55	29.96	29.32	28.56	27.92	27.10	26.04	24.99	24.11
360.0	32.48	31.66	30.72	29.67	28.73	27.45	26.39	25.46	24.52

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	23.29	22.41	21.59	20.72	19.72	18.96	18.26	17.56	16.74
45.0	24.52	23.58	22.65	21.59	20.78	19.96	19.02	18.32	17.56
90.0	23.12	22.53	22.00	20.89	19.96	19.08	18.02	17.26	16.74
135.0	25.63	24.87	23.94	23.06	22.00	21.24	20.42	19.49	18.79
180.0	24.81	23.82	23.00	22.30	21.65	20.83	20.19	19.61	18.79
225.0	22.88	22.12	21.24	20.60	20.01	19.31	18.55	17.91	17.32
270.0	22.41	21.65	20.78	20.19	19.49	18.90	18.32	17.62	17.03
315.0	23.17	22.30	21.30	20.60	19.78	18.90	18.20	17.38	16.68
360.0	23.29	22.41	21.59	20.72	19.72	18.96	18.26	17.56	16.74

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.09	15.39	14.92	14.51	14.10	13.75	13.46	13.05	12.76
45.0	16.62	15.98	15.33	14.69	14.16	13.81	13.40	13.05	12.76
90.0	16.21	15.45	14.98	14.46	14.10	13.64	13.34	12.99	12.64
135.0	17.73	16.91	16.21	15.63	14.86	14.40	14.05	13.64	13.23
180.0	18.14	17.56	16.68	16.15	15.68	15.10	14.75	14.40	13.99
225.0	16.44	15.86	15.33	14.75	14.28	13.93	13.46	13.17	12.82
270.0	16.44	15.86	15.27	14.81	14.46	14.10	13.69	13.40	13.05
315.0	15.98	15.27	14.75	14.28	13.93	13.46	13.17	12.87	12.52
360.0	16.09	15.39	14.92	14.51	14.10	13.75	13.46	13.05	12.76

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.47	12.17	11.88	11.65	11.53	11.24	11.00	10.77	10.36
45.0	12.35	12.11	11.82	11.47	11.24	11.00	10.77	10.53	10.36
90.0	12.35	12.00	11.70	11.47	11.24	10.94	10.71	10.42	10.30
135.0	12.87	12.52	12.17	11.88	11.65	11.24	11.06	10.77	10.53
180.0	13.69	13.34	13.05	12.76	12.52	12.17	11.88	11.53	11.12
225.0	12.52	12.23	12.00	11.65	11.41	11.12	10.89	10.65	10.48
270.0	12.70	12.41	12.06	11.76	11.53	11.18	10.94	10.65	10.42
315.0	12.17	11.94	11.65	11.41	11.18	10.89	10.71	10.48	10.30
360.0	12.47	12.17	11.88	11.65	11.53	11.24	11.00	10.77	10.36

Intensity data(cd)

C/γ(°)	90.0
0.0	10.36
45.0	10.24
90.0	10.24
135.0	10.30
180.0	10.65
225.0	10.30
270.0	10.30
315.0	10.24
360.0	10.36