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: 2-2680-L
Luminaire: 92.70.411.00
Report No: 2024403-B006
Ballast type: AC
Test No: 2024403-C006
LampCAT: Fortimo_SLM_C_1208
Lamp flux(lm): 3438.0
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 34.410
Current(A): 0.578
Power (W): 19.888
PF: 0.000
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 2857.42, Efficiency(%): 83.11% , Luminous Efficacy(lm/W): 143.68
Central intensity(cd): 6373.013, Maximum intensity(cd): 6373.013
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=37.0
[C90/270]Total=37.0
Field angle(10%Imax): [C0/180]Total=64.8
[C90/270]Total=64.8
Maximum s/h(1/2): C0_180=0.61 C90_270=0.61
Maximum s/h(1/4): C0_180=0.60 C90_270=0.60
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 83.11%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.032%

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2024/4/03
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.65

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6373.012	0.000	0	0.00%	0.00%
1.0	6364.819	6.095	6.095	0.18%	0.21%
2.0	6330.364	18.221	24.316	0.53%	0.85%
3.0	6273.597	30.145	54.461	0.88%	1.91%
4.0	6197.372	41.744	96.205	1.21%	3.37%
5.0	6099.932	52.902	149.107	1.54%	5.22%
6.0	5978.425	63.475	212.582	1.85%	7.44%
7.0	5844.335	73.384	285.966	2.13%	10.01%
8.0	5681.277	82.487	368.453	2.40%	12.89%
9.0	5492.688	90.559	459.012	2.63%	16.06%
10.0	5298.759	97.659	556.67	2.84%	19.48%
11.0	5090.053	103.806	660.476	3.02%	23.11%
12.0	4856.256	108.727	769.203	3.16%	26.92%
13.0	4613.607	112.383	881.587	3.27%	30.85%
14.0	4366.349	114.943	996.529	3.34%	34.88%
15.0	4118.360	116.482	1113.011	3.39%	38.95%
16.0	3871.541	117.074	1230.085	3.41%	43.05%
17.0	3601.460	116.375	1346.46	3.38%	47.12%
18.0	3337.524	114.409	1460.869	3.33%	51.13%
19.0	3059.176	111.289	1572.158	3.24%	55.02%
20.0	2807.383	107.374	1679.533	3.12%	58.78%
21.0	2551.640	102.904	1782.437	2.99%	62.38%
22.0	2279.876	97.091	1879.528	2.82%	65.78%
23.0	2068.829	91.248	1970.776	2.65%	68.97%
24.0	1877.168	86.274	2057.049	2.51%	71.99%
25.0	1701.966	81.382	2138.431	2.37%	74.84%
26.0	1503.311	75.661	2214.092	2.20%	77.49%
27.0	1281.511	68.131	2282.223	1.98%	79.87%
28.0	1188.972	62.547	2344.771	1.82%	82.06%
29.0	1058.343	58.796	2403.567	1.71%	84.12%
30.0	920.610	53.431	2456.998	1.55%	85.99%
31.0	789.476	47.589	2504.587	1.38%	87.65%
32.0	680.697	42.119	2546.706	1.23%	89.13%
33.0	573.499	36.949	2583.655	1.07%	90.42%
34.0	476.051	31.762	2615.418	0.92%	91.53%
35.0	385.261	26.749	2642.167	0.78%	92.47%
36.0	308.970	22.104	2664.271	0.64%	93.24%
37.0	258.611	18.511	2682.783	0.54%	93.89%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	203.117	15.412	2698.194	0.45%	94.43%
39.0	135.999	11.575	2709.769	0.34%	94.83%
40.0	106.877	8.471	2718.24	0.25%	95.13%
41.0	94.528	7.172	2725.412	0.21%	95.38%
42.0	85.436	6.538	2731.95	0.19%	95.61%
43.0	77.754	6.045	2737.995	0.18%	95.82%
44.0	71.419	5.630	2743.626	0.16%	96.02%
45.0	65.911	5.278	2748.903	0.15%	96.20%
46.0	60.681	4.951	2753.854	0.14%	96.38%
47.0	56.225	4.650	2758.504	0.14%	96.54%
48.0	51.983	4.374	2762.878	0.13%	96.69%
49.0	48.515	4.127	2767.005	0.12%	96.84%
50.0	44.916	3.895	2770.901	0.11%	96.97%
51.0	42.063	3.680	2774.581	0.11%	97.10%
52.0	39.334	3.493	2778.073	0.10%	97.22%
53.0	37.023	3.322	2781.395	0.10%	97.34%
54.0	34.938	3.172	2784.567	0.09%	97.45%
55.0	33.021	3.034	2787.6	0.09%	97.56%
56.0	31.353	2.909	2790.509	0.08%	97.66%
57.0	29.971	2.804	2793.313	0.08%	97.76%
58.0	28.603	2.709	2796.022	0.08%	97.85%
59.0	27.462	2.621	2798.643	0.08%	97.94%
60.0	26.489	2.549	2801.192	0.07%	98.03%
61.0	25.596	2.486	2803.677	0.07%	98.12%
62.0	24.762	2.427	2806.104	0.07%	98.20%
63.0	24.023	2.373	2808.476	0.07%	98.29%
64.0	23.329	2.324	2810.8	0.07%	98.37%
65.0	22.685	2.277	2813.077	0.07%	98.45%
66.0	22.129	2.236	2815.313	0.07%	98.53%
67.0	21.573	2.197	2817.51	0.06%	98.60%
68.0	21.185	2.166	2819.676	0.06%	98.68%
69.0	20.805	2.142	2821.819	0.06%	98.75%
70.0	20.432	2.118	2823.936	0.06%	98.83%
71.0	19.883	2.084	2826.02	0.06%	98.90%
72.0	19.356	2.040	2828.06	0.06%	98.97%
73.0	18.866	1.999	2830.059	0.06%	99.04%
74.0	18.288	1.953	2832.012	0.06%	99.11%
75.0	17.769	1.905	2833.918	0.06%	99.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.301	1.862	2835.779	0.05%	99.24%
77.0	16.796	1.818	2837.597	0.05%	99.31%
78.0	16.364	1.775	2839.372	0.05%	99.37%
79.0	15.918	1.735	2841.107	0.05%	99.43%
80.0	15.443	1.691	2842.797	0.05%	99.49%
81.0	14.916	1.642	2844.439	0.05%	99.55%
82.0	14.389	1.589	2846.028	0.05%	99.60%
83.0	13.958	1.541	2847.569	0.04%	99.66%
84.0	13.592	1.501	2849.07	0.04%	99.71%
85.0	13.270	1.466	2850.536	0.04%	99.76%
86.0	12.919	1.432	2851.968	0.04%	99.81%
87.0	12.597	1.396	2853.364	0.04%	99.86%
88.0	12.385	1.368	2854.733	0.04%	99.91%
89.0	12.217	1.348	2856.081	0.04%	99.95%
90.0	12.158	1.336	2857.418	0.04%	100.00%

Zonal flux distribution table

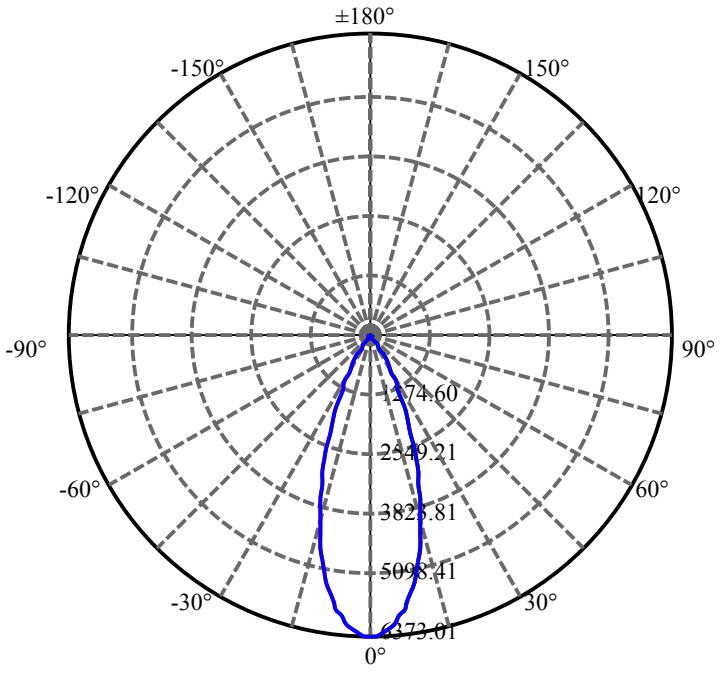
ZONAL LUMEN SUMMARY

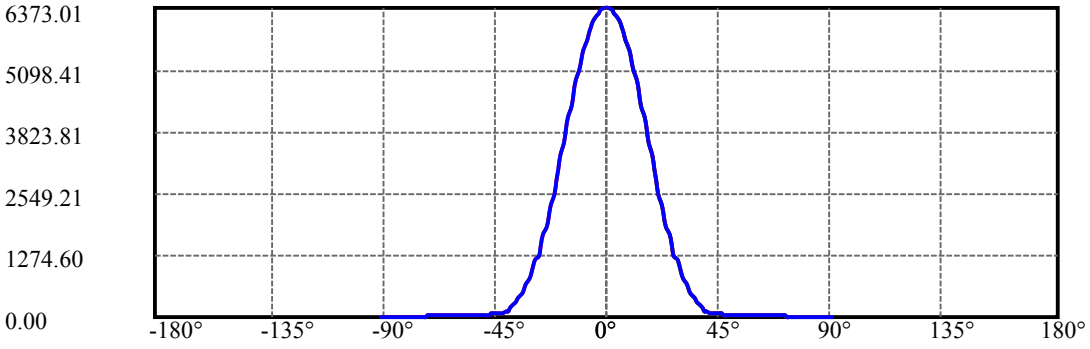
Zone	Lumens	%Lamp	%Fixt
0-30	2457.00	71.47%	85.99%
0-40	2718.24	79.06%	95.13%
0-60	2801.19	81.48%	98.03%
0-90	2856.08	83.07%	99.95%
0-120	2856.08	83.07%	99.95%
0-180	2857.42	83.11%	100.00%
60-90	54.89	1.60%	1.92%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.06	2285.93	66.49%	80.00%

ZONAL LUMEN SUMMARY

0-10	556.67
10-20	1122.86
20-30	777.47
30-40	261.24
40-50	52.66
50-60	30.29
60-70	22.74
70-80	18.86
80-90	13.28
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):

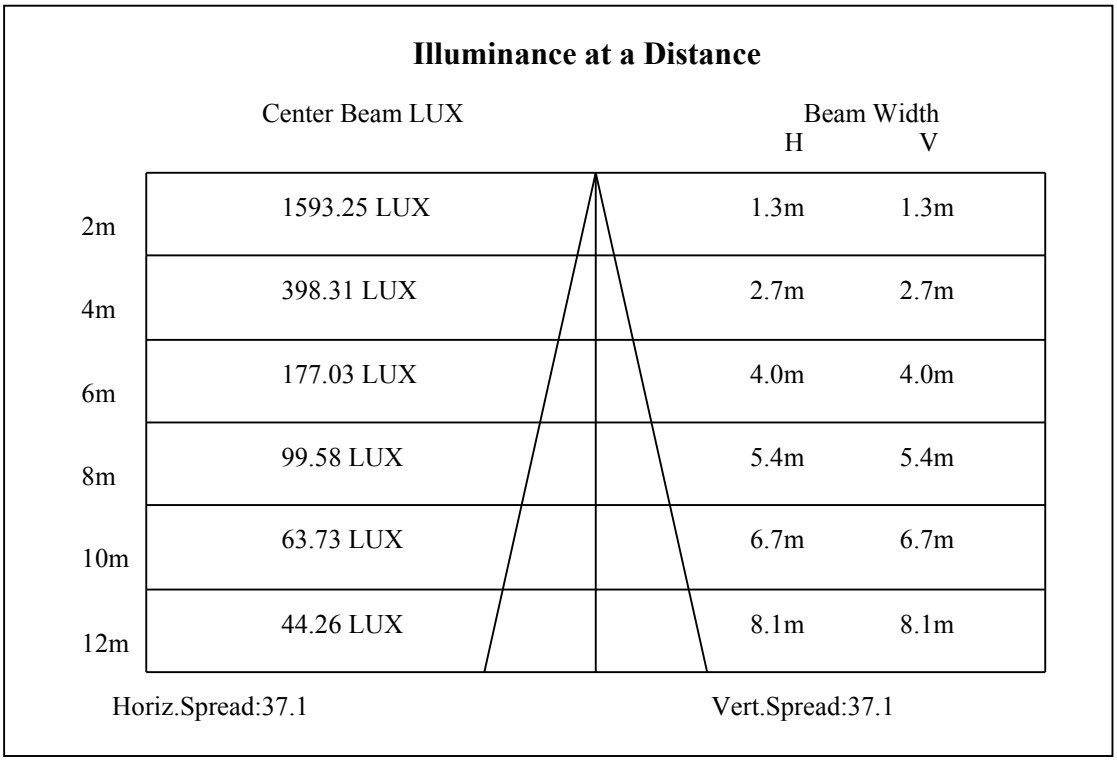
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:32.4 Right:32.4
:C90/270Left:32.4 Right:32.4

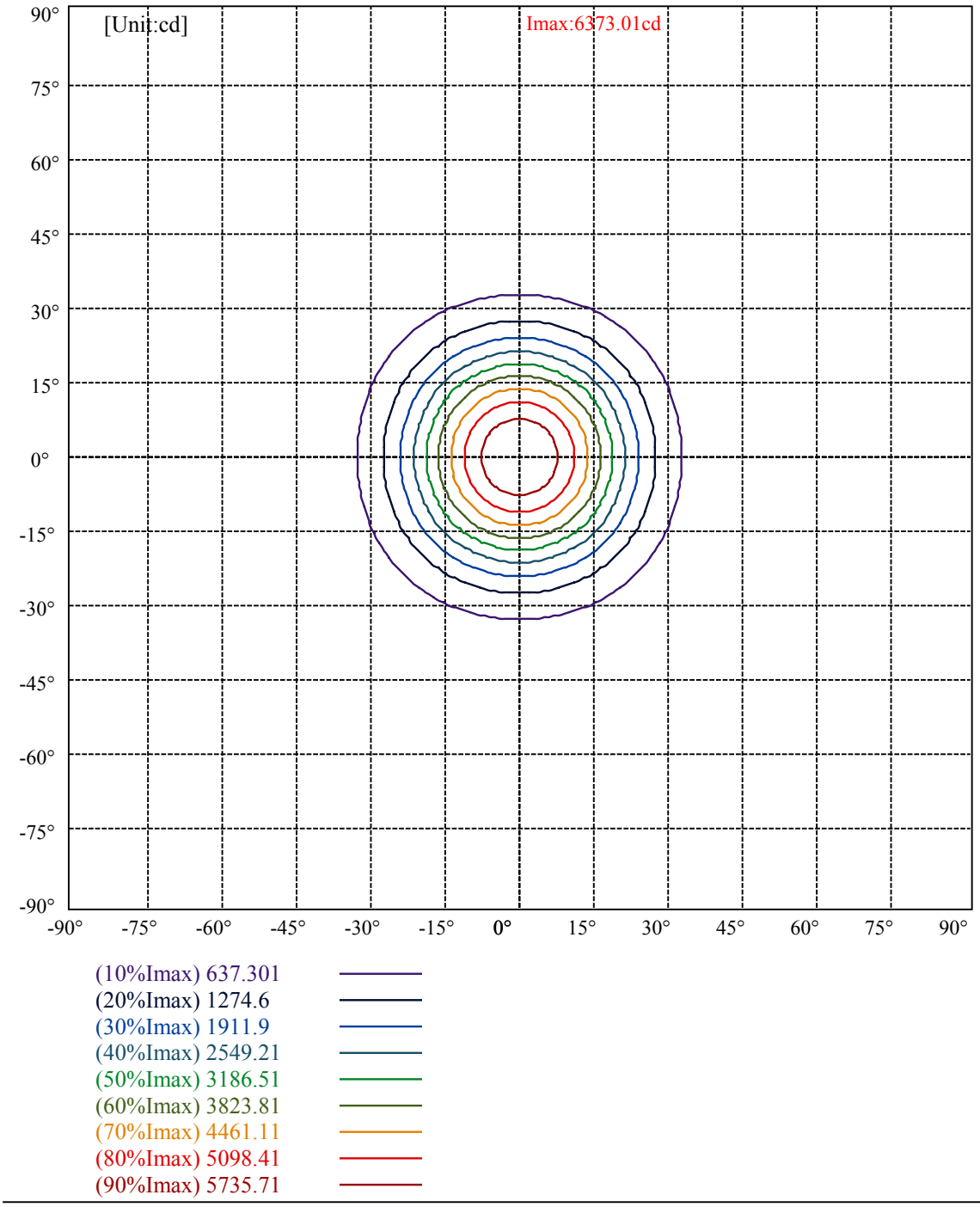
Beam Angle(50%Imax):C0/180Left:18.5 Right:18.5
:C90/270Left:18.5 Right:18.5

Lux distance Curve



Equipment: GMS1980 Date: 2024/4/03 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

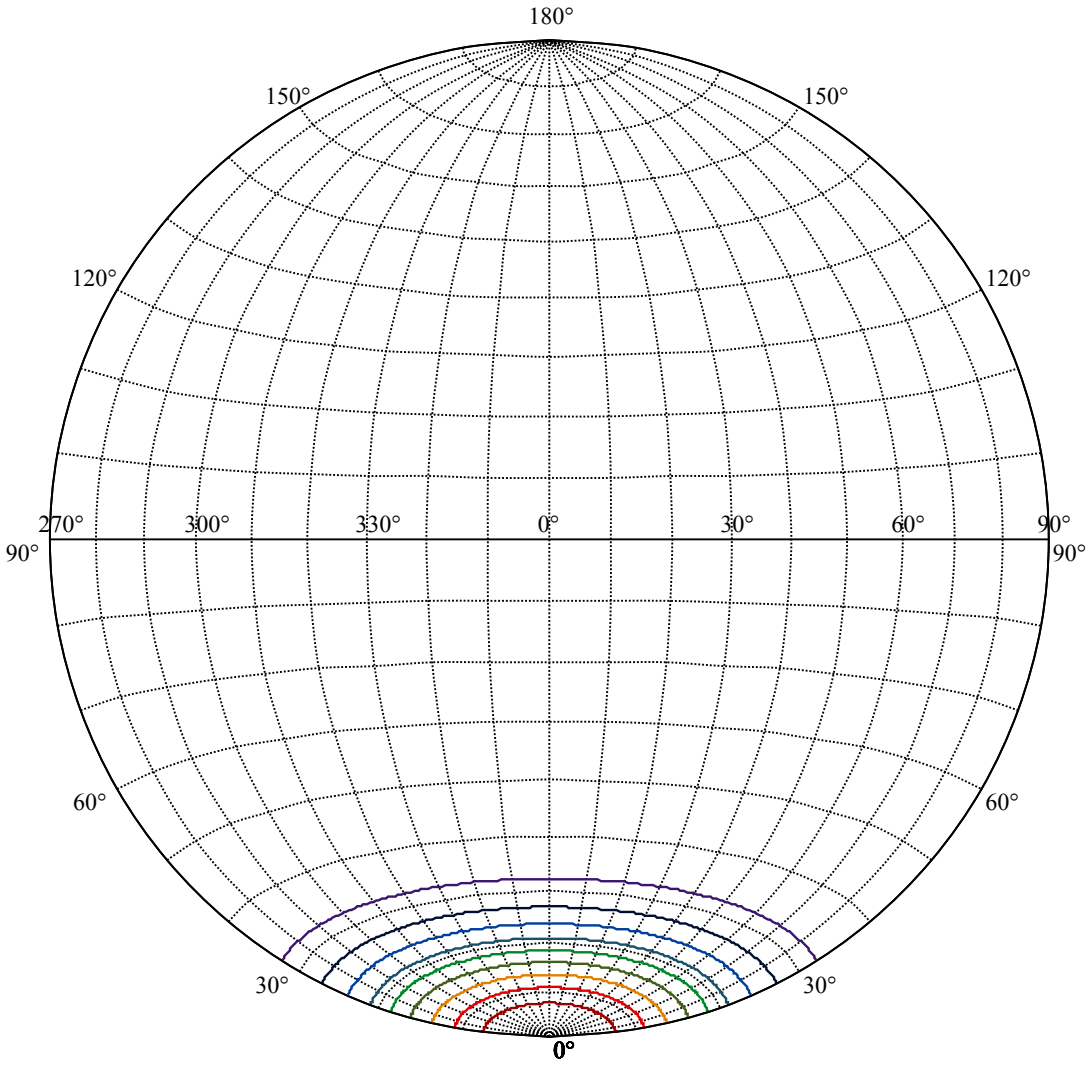


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/03
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



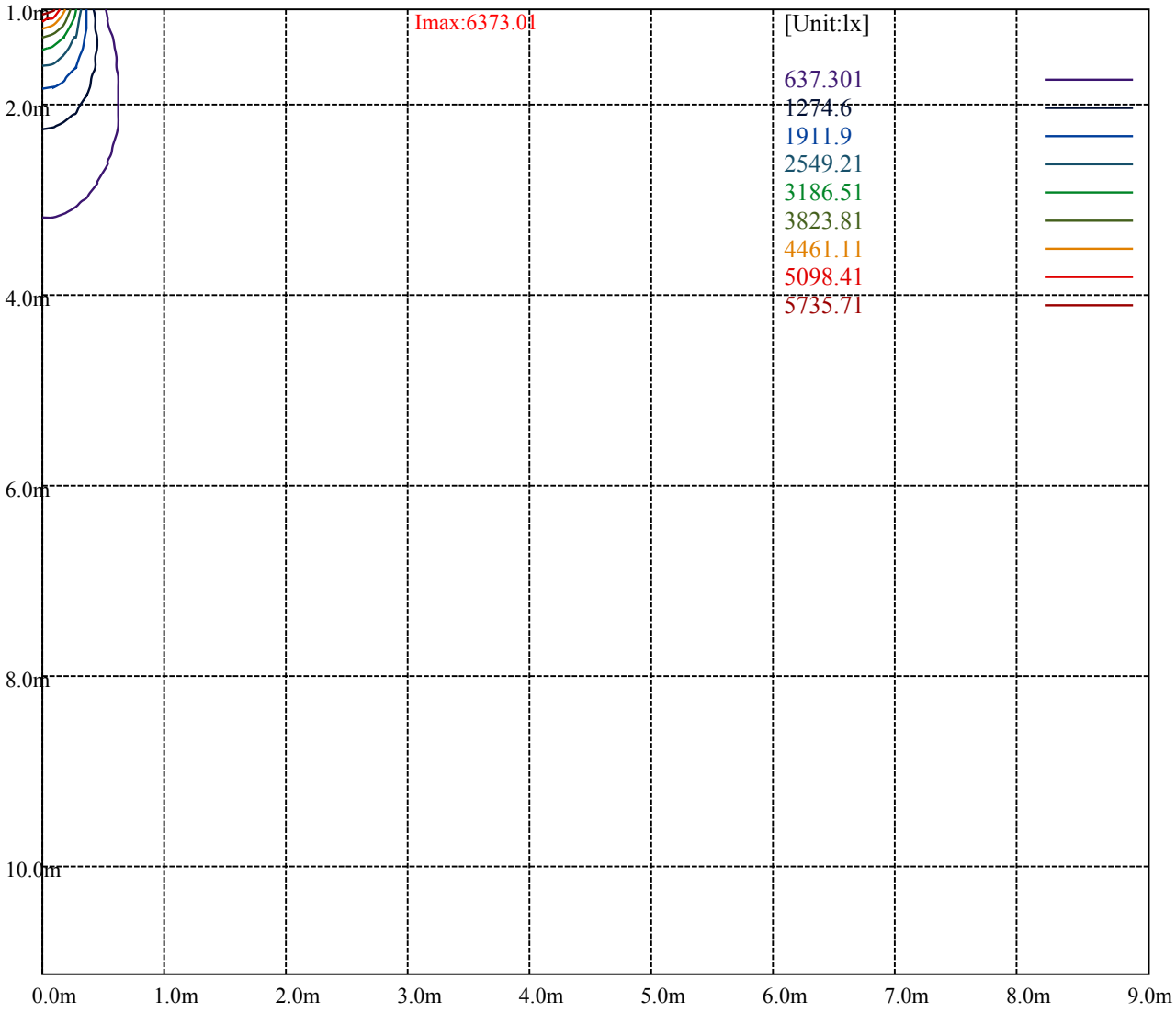
House [Unit:cd] Road

Imax:6373.01

(10%Imax) 637.301
(20%Imax) 1274.6
(30%Imax) 1911.9
(40%Imax) 2549.21
(50%Imax) 3186.51
(60%Imax) 3823.81
(70%Imax) 4461.11
(80%Imax) 5098.41
(90%Imax) 5735.71

Equipment: GMS1980 Date: 2024/4/03 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/03
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

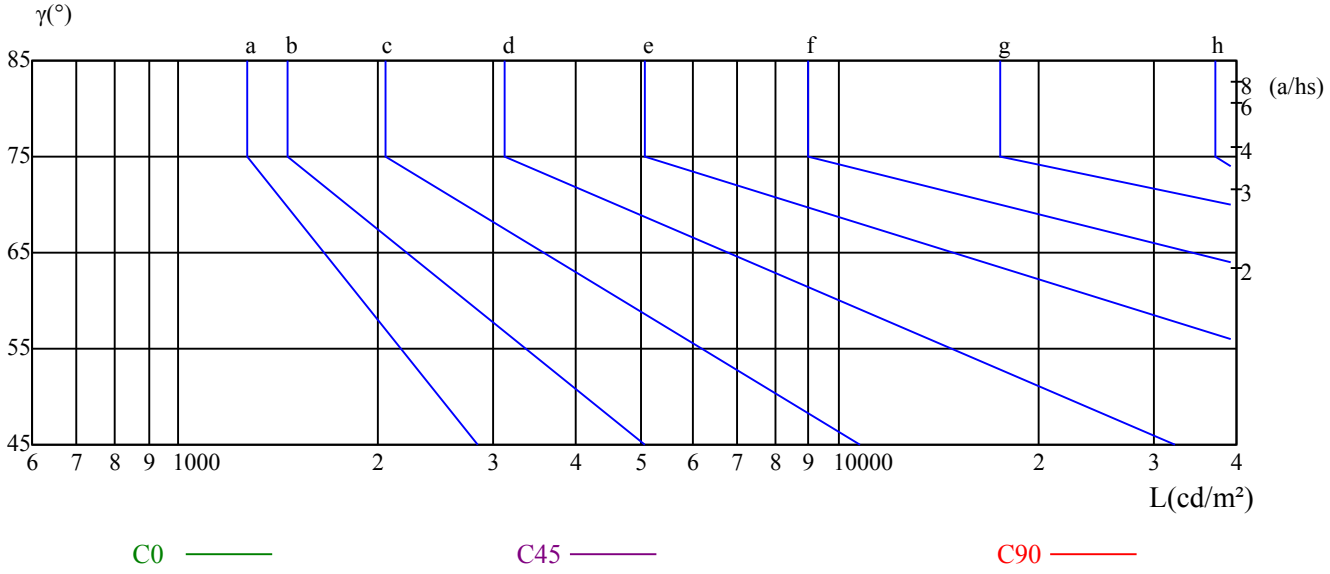
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

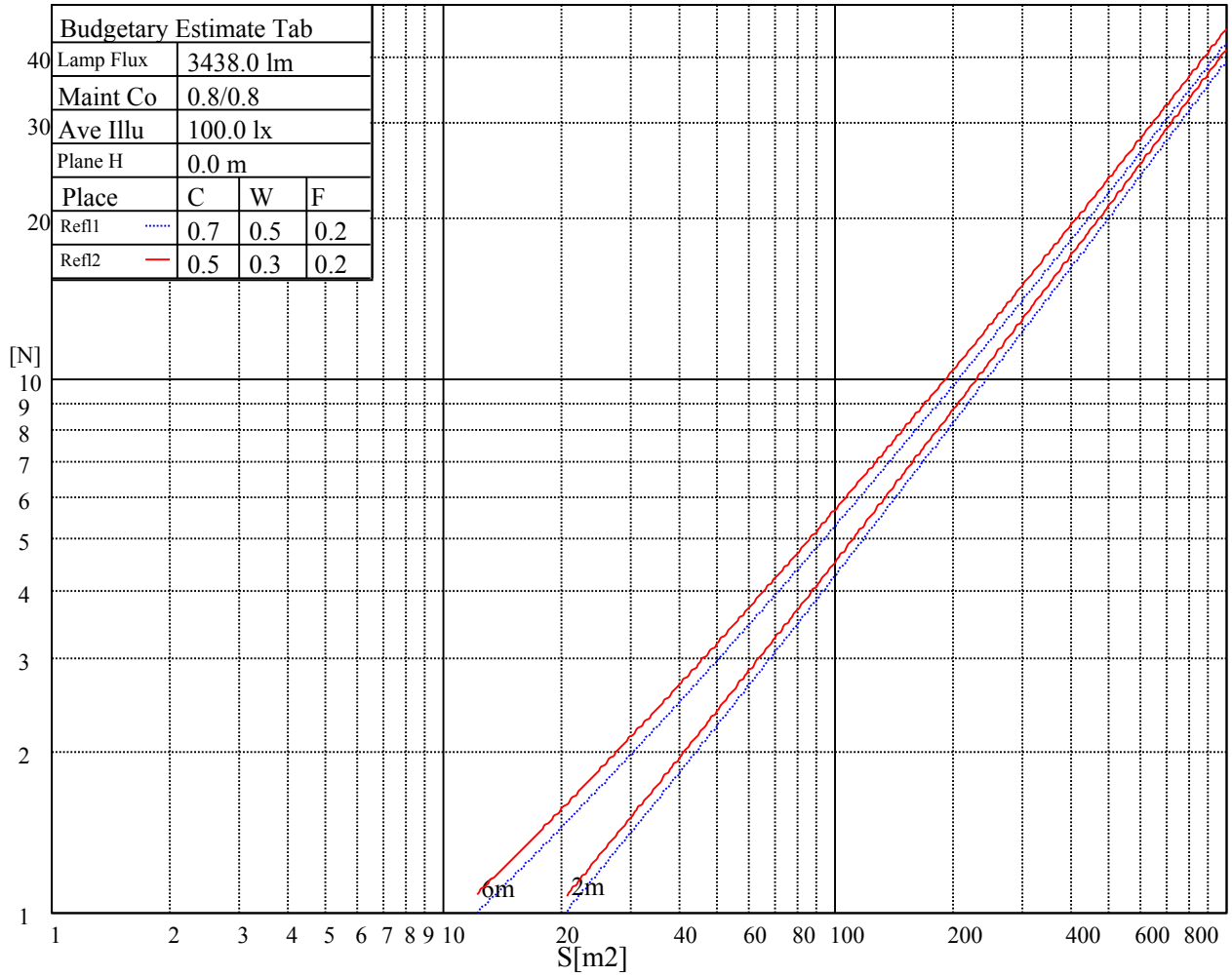
Luminance Limitting Curve



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

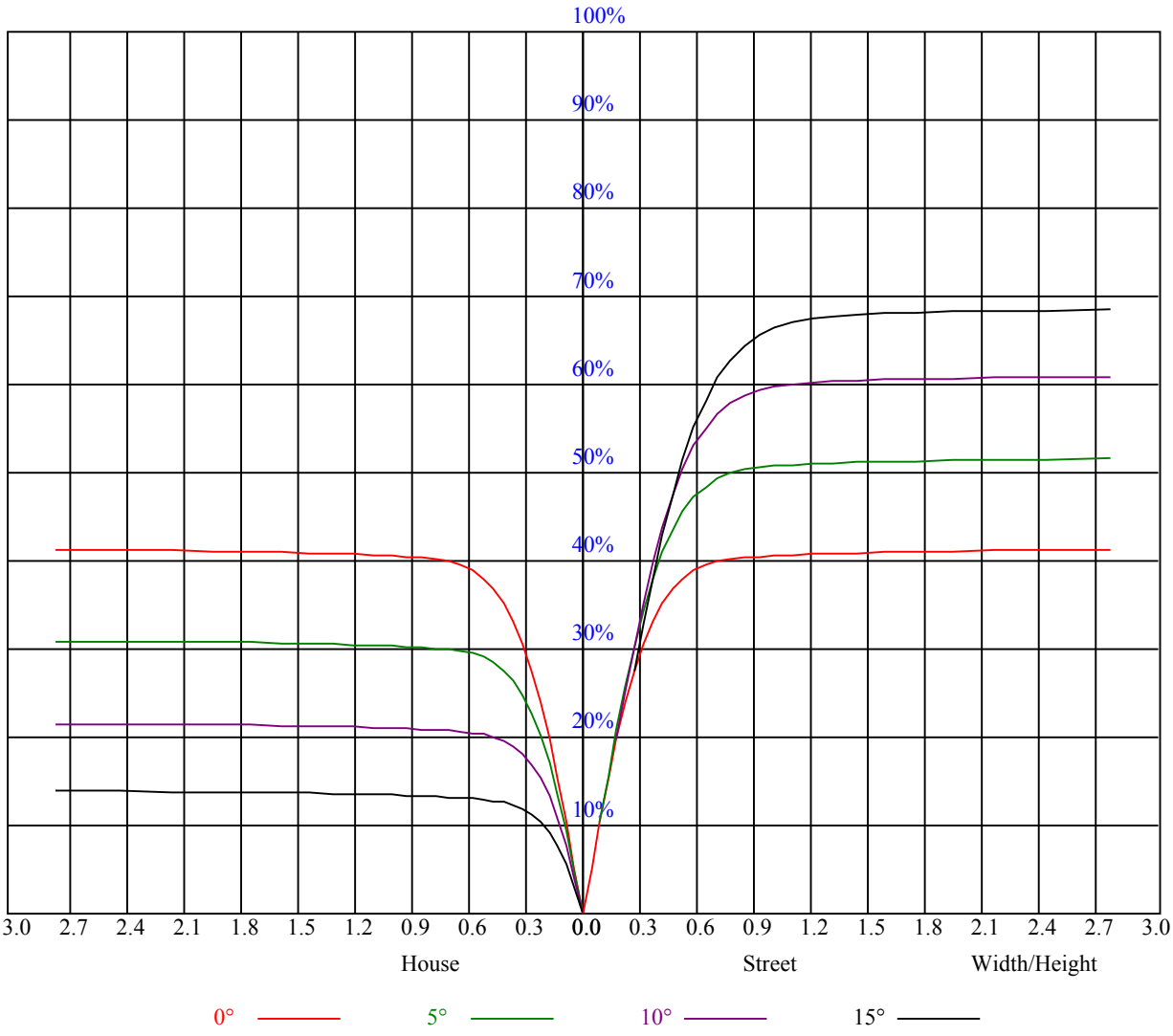


Equipment: GMS1980 Date: 2024/4/03 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

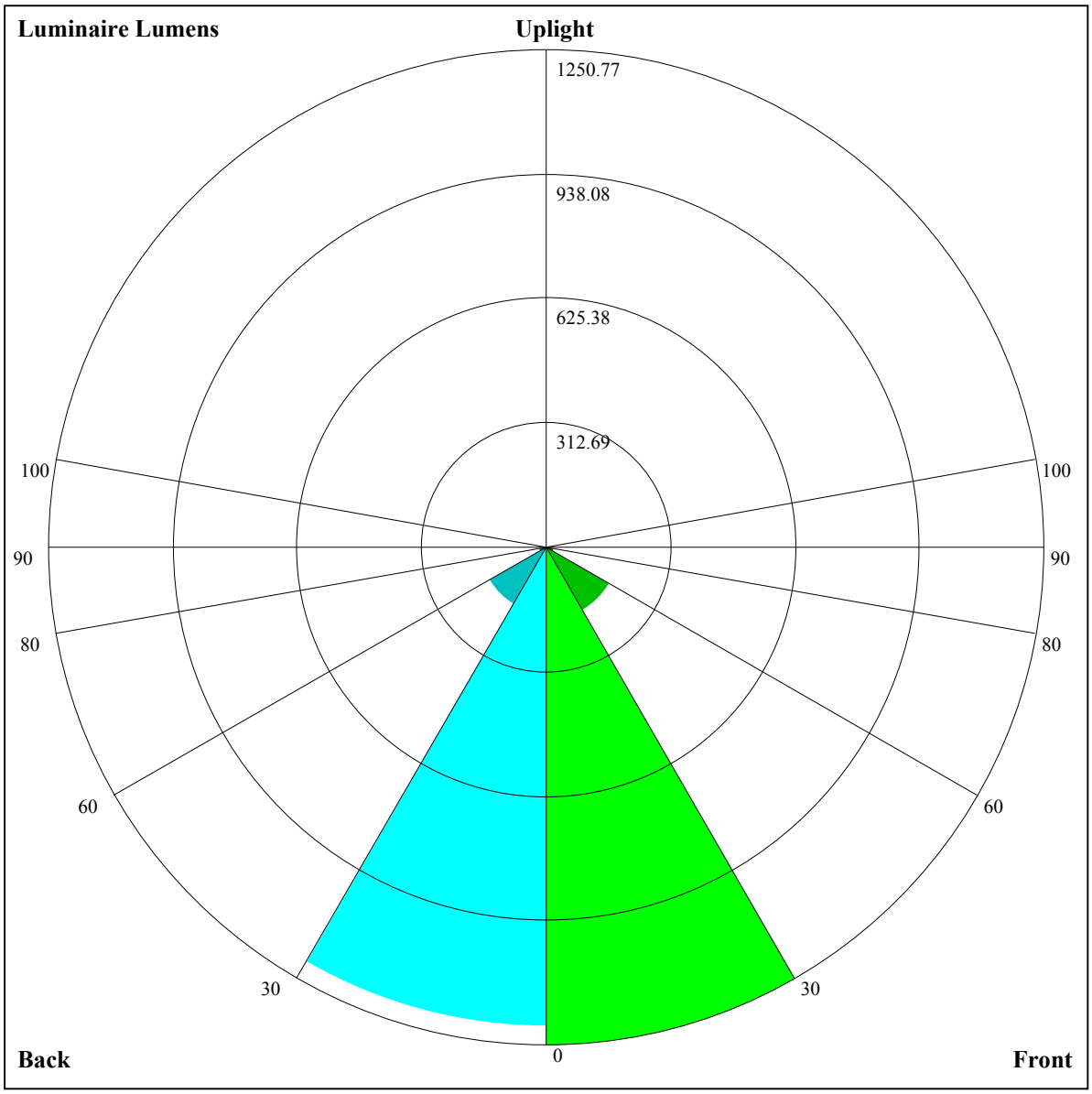
Utilization factor table for indoor luminaire

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	0.99	0.99	0.99	0.97	0.97	0.97	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.93	0.91	0.89	0.91	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.78
2	0.87	0.84	0.81	0.86	0.83	0.80	0.83	0.81	0.79	0.80	0.79	0.77	0.78	0.77	0.75	0.74
3	0.82	0.78	0.75	0.81	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.75	0.73	0.71	0.70
4	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.72	0.70	0.68	0.67
5	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.70	0.67	0.65	0.69	0.67	0.65	0.64
6	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.64	0.62	0.66	0.64	0.62	0.61
7	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.58
8	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.56	0.55
9	0.62	0.57	0.55	0.61	0.57	0.54	0.60	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.54	0.53
10	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.51

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/03	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1250.77,FM=181.4,FH=20.54,FVH=7.34
BL=1203.69,BM=165.52,BH=20.83,BVH=7.3
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	6384.86	6377.26	6345.65	6292.98	6228.61	6125.02	6020.27	5897.96	5756.33
45.0	6366.72	6379.60	6375.50	6335.70	6290.64	6198.18	6107.47	5999.79	5868.11
90.0	6370.23	6353.26	6312.30	6225.68	6147.26	6047.77	5888.59	5760.43	5588.96
135.0	6370.82	6370.82	6342.73	6294.74	6209.88	6118.00	5987.50	5856.41	5704.83
180.0	6384.86	6365.55	6328.10	6264.89	6187.06	6069.43	5955.89	5810.76	5659.18
225.0	6366.72	6330.44	6267.23	6192.91	6084.06	5971.69	5834.17	5678.50	5458.45
270.0	6369.06	6377.26	6359.11	6313.47	6240.31	6163.06	6058.89	5915.51	5768.62
315.0	6370.82	6364.38	6312.30	6268.40	6191.15	6106.30	5974.62	5835.34	5645.72
360.0	6384.86	6377.26	6345.65	6292.98	6228.61	6125.02	6020.27	5897.96	5756.33

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5550.92	5378.28	5173.45	4965.11	4689.47	4461.23	4231.24	3998.90	3689.32
45.0	5693.71	5530.43	5347.26	5158.23	4897.22	4675.42	4452.45	4159.25	3918.14
90.0	5421.00	5169.35	4965.69	4742.14	4522.68	4244.70	4011.19	3764.81	3465.18
135.0	5493.57	5302.78	5106.15	4896.64	4621.00	4401.54	4173.88	3935.70	3627.87
180.0	5440.90	5246.02	5033.58	4759.69	4527.36	4244.70	4004.17	3758.37	3534.82
225.0	5259.48	5054.06	4838.70	4558.38	4331.31	4096.05	3799.34	3556.47	3308.92
270.0	5620.56	5437.38	5237.24	4970.96	4746.23	4462.98	4226.55	3980.76	3694.58
315.0	5461.38	5271.77	5018.36	4798.90	4573.59	4344.18	4048.06	3818.07	3572.86
360.0	5550.92	5378.28	5173.45	4965.11	4689.47	4461.23	4231.24	3998.90	3689.32

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3447.62	3147.40	2900.43	2660.49	2363.20	2140.23	1943.59	1775.63	1581.92
45.0	3679.37	3375.64	3129.26	2885.80	2585.58	2353.25	2135.54	1943.01	1731.74
90.0	3221.72	2919.16	2677.46	2438.69	2157.78	1956.47	1780.31	1625.81	1477.17
135.0	3380.90	3134.52	2826.11	2587.34	2298.24	2078.78	1889.75	1722.96	1528.67
180.0	3213.53	2957.79	2716.09	2468.54	2186.46	1986.31	1811.33	1618.21	1465.46
225.0	2995.24	2748.28	2503.65	2216.89	2005.04	1827.13	1668.53	1514.62	1136.21
270.0	3434.74	3171.98	2929.11	2617.18	2382.51	2156.61	1958.22	1742.86	1586.60
315.0	3327.06	3018.65	2776.95	2538.18	2260.20	2051.86	1830.06	1672.63	1518.72
360.0	3447.62	3147.40	2900.43	2660.49	2363.20	2140.23	1943.59	1775.63	1581.92

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1165.18	1165.18	1095.01	962.99	843.13	734.63	612.38	520.97	435.35
45.0	1573.14	1418.64	1268.83	1095.60	965.68	844.54	709.35	611.03	497.50
90.0	1144.64	1144.64	1012.56	886.26	743.70	641.00	544.26	430.96	348.27
135.0	1375.34	1223.76	1083.31	923.54	804.74	699.99	604.01	493.40	409.72
180.0	1277.02	1133.05	997.87	868.53	732.17	635.03	540.81	451.85	352.36
225.0	1136.21	1032.63	869.47	754.30	649.54	532.09	444.77	346.22	274.00
270.0	1436.20	1249.51	1102.04	965.68	815.86	704.08	574.16	484.62	398.01
315.0	1144.35	1144.35	1037.66	907.98	760.97	654.22	558.25	469.35	366.88
360.0	1165.18	1165.18	1095.01	962.99	843.13	734.63	612.38	520.97	435.35

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	352.83	262.47	199.56	138.64	111.54	99.02	90.30	80.82	74.56
45.0	410.89	331.88	312.57	226.37	132.85	108.33	96.50	85.68	78.36
90.0	274.65	196.05	147.71	109.96	95.10	86.67	78.89	70.99	65.60
135.0	313.74	295.60	295.60	136.12	106.10	95.27	84.97	77.89	71.98
180.0	295.01	295.01	157.07	114.88	99.96	91.12	81.87	75.49	68.65
225.0	210.97	158.54	117.34	101.65	92.88	84.80	76.61	70.81	65.60
270.0	321.35	303.79	223.79	135.60	111.43	97.56	88.95	81.58	75.20
315.0	292.32	225.55	171.30	124.77	105.16	93.46	85.38	78.77	71.40
360.0	352.83	262.47	199.56	138.64	111.54	99.02	90.30	80.82	74.56

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	68.88	63.67	58.23	54.25	50.62	46.58	43.72	41.14	38.27
45.0	72.22	65.37	60.51	56.30	52.32	47.93	44.77	41.26	38.92
90.0	60.63	56.30	51.32	47.93	44.77	41.20	38.80	36.64	34.18
135.0	66.66	60.57	56.47	52.67	49.16	45.24	42.43	39.91	37.69
180.0	63.67	59.22	55.25	50.74	47.46	44.48	41.79	38.74	36.64
225.0	60.86	55.65	51.97	47.75	44.71	41.90	38.92	36.75	34.88
270.0	68.06	63.03	58.58	53.55	49.92	45.94	43.01	40.32	37.98
315.0	66.31	61.62	57.47	52.67	49.16	46.06	43.07	39.91	37.63
360.0	68.88	63.67	58.23	54.25	50.62	46.58	43.72	41.14	38.27

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	36.23	34.41	32.30	30.84	29.50	28.09	27.04	26.10	25.28
45.0	36.75	34.29	32.54	30.96	29.55	28.09	27.10	26.04	25.16
90.0	32.48	30.90	29.20	27.97	26.86	25.93	24.93	24.17	23.47
135.0	35.29	33.59	31.66	30.26	29.03	27.74	26.92	26.10	25.28
180.0	34.70	32.71	31.31	29.96	28.56	27.56	26.45	25.63	24.93
225.0	33.12	31.31	29.96	28.73	27.45	26.57	25.75	24.99	24.05
270.0	35.41	33.65	32.01	30.61	29.03	27.92	26.92	25.98	24.99
315.0	35.52	33.30	31.84	30.43	28.85	27.80	26.80	25.75	24.93
360.0	36.23	34.41	32.30	30.84	29.50	28.09	27.04	26.10	25.28

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	24.40	23.70	23.12	22.53	21.83	21.30	20.66	20.13	19.61
45.0	24.29	23.64	23.00	22.24	21.71	21.19	20.60	20.07	19.49
90.0	22.88	22.18	21.65	21.19	20.54	20.07	19.49	19.08	18.67
135.0	24.46	23.88	23.23	22.71	22.00	21.42	20.95	20.31	19.84
180.0	24.23	23.58	22.88	22.47	22.65	23.29	24.23	24.87	24.35
225.0	23.41	22.77	22.00	21.48	20.78	20.19	19.72	19.25	18.73
270.0	24.29	23.47	22.82	22.24	21.48	20.95	20.37	19.84	19.20
315.0	24.23	23.41	22.77	22.18	21.59	21.07	20.42	19.90	19.20
360.0	24.40	23.70	23.12	22.53	21.83	21.30	20.66	20.13	19.61

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.02	18.55	18.08	17.56	17.15	16.68	16.33	15.80	15.45
45.0	19.02	18.55	18.08	17.62	17.15	16.80	16.39	15.98	15.51
90.0	18.14	17.73	17.32	16.91	16.50	16.15	15.80	15.45	14.98
135.0	19.37	19.02	18.67	18.32	17.91	17.56	17.15	16.80	16.50
180.0	23.58	22.82	21.36	20.42	19.49	18.20	17.32	16.44	15.80
225.0	18.14	17.67	17.26	16.74	16.39	15.86	15.51	15.16	14.75
270.0	18.79	18.26	17.79	17.26	16.85	16.44	16.04	15.68	15.22
315.0	18.79	18.32	17.73	17.32	16.97	16.68	16.39	16.04	15.33
360.0	19.02	18.55	18.08	17.56	17.15	16.68	16.33	15.80	15.45

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.04	14.51	14.05	13.69	13.46	13.17	12.76	12.58	12.35
45.0	15.10	14.69	14.28	13.87	13.64	13.40	12.82	12.58	12.41
90.0	14.63	14.10	13.75	13.52	13.17	12.76	12.52	12.35	12.17
135.0	16.04	15.04	14.28	13.81	13.40	12.87	12.64	12.35	12.17
180.0	14.86	14.28	13.93	13.46	13.11	12.76	12.47	12.29	12.17
225.0	14.28	13.99	13.69	13.28	12.82	12.58	12.41	12.17	12.11
270.0	14.69	14.34	13.87	13.64	13.40	12.93	12.64	12.47	12.23
315.0	14.69	14.16	13.81	13.46	13.17	12.87	12.52	12.29	12.11
360.0	15.04	14.51	14.05	13.69	13.46	13.17	12.76	12.58	12.35

Intensity data(cd)

C/γ(°)	90.0
0.0	12.23
45.0	12.23
90.0	12.17
135.0	12.17
180.0	12.11
225.0	12.17
270.0	12.11
315.0	12.06
360.0	12.23