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: 2-2683-L
Luminaire: 92.70.412.00
Report No: 2024326-B015
Ballast type: AC

Test No: 2024326-C015	Voltage(V): 34.440
LampCAT: Fortimo_SLM_C_1210	Current(A): 0.720
Lamp flux(lm): 4230.0	Power (W): 24.796
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3650.24, Efficiency(%): 86.29% , Luminous Efficacy(lm/W): 147.21
Central intensity(cd): 12225.940, Maximum intensity(cd): 12225.940
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.2
[C90/270]Total=25.2
Field angle(10%Imax): [C0/180]Total=58.2
[C90/270]Total=58.2
Maximum s/h(1/2): C0_180=0.42 C90_270=0.42
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(%): 86.29%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.034%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12225.935	0.000	0	0.00%	0.00%
1.0	12139.695	11.658	11.658	0.28%	0.32%
2.0	11907.017	34.514	46.173	0.82%	1.26%
3.0	11799.921	56.699	102.872	1.34%	2.82%
4.0	11467.440	77.883	180.755	1.84%	4.95%
5.0	11021.791	96.748	277.503	2.29%	7.60%
6.0	10533.494	113.279	390.781	2.68%	10.71%
7.0	9959.900	127.202	517.984	3.01%	14.19%
8.0	9287.623	137.751	655.734	3.26%	17.96%
9.0	8560.554	144.650	800.384	3.42%	21.93%
10.0	7866.331	148.657	949.041	3.51%	26.00%
11.0	7173.352	150.277	1099.319	3.55%	30.12%
12.0	6498.002	149.447	1248.766	3.53%	34.21%
13.0	5833.333	146.342	1395.108	3.46%	38.22%
14.0	5236.184	141.689	1536.797	3.35%	42.10%
15.0	4697.996	136.381	1673.178	3.22%	45.84%
16.0	4224.476	130.739	1803.917	3.09%	49.42%
17.0	3769.610	124.489	1928.406	2.94%	52.83%
18.0	3388.994	118.030	2046.436	2.79%	56.06%
19.0	3085.628	112.645	2159.082	2.66%	59.15%
20.0	2849.417	108.628	2267.709	2.57%	62.13%
21.0	2728.202	107.102	2374.811	2.53%	65.06%
22.0	2401.090	103.075	2477.886	2.44%	67.88%
23.0	2195.676	96.453	2574.339	2.28%	70.53%
24.0	2034.666	92.490	2666.829	2.19%	73.06%
25.0	1874.315	88.882	2755.711	2.10%	75.49%
26.0	1709.793	84.603	2840.314	2.00%	77.81%
27.0	1546.296	79.661	2919.975	1.88%	79.99%
28.0	1322.126	72.622	2992.598	1.72%	81.98%
29.0	1244.803	67.158	3059.756	1.59%	83.82%
30.0	1089.411	63.023	3122.779	1.49%	85.55%
31.0	931.247	56.232	3179.011	1.33%	87.09%
32.0	789.732	49.304	3228.315	1.17%	88.44%
33.0	652.153	42.478	3270.793	1.00%	89.60%
34.0	542.211	36.145	3306.938	0.85%	90.60%
35.0	458.773	31.087	3338.025	0.73%	91.45%
36.0	390.967	27.056	3365.081	0.64%	92.19%
37.0	329.365	23.493	3388.574	0.56%	92.83%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	280.791	20.366	3408.94	0.48%	93.39%
39.0	257.353	18.368	3427.309	0.43%	93.89%
40.0	223.841	16.782	3444.091	0.40%	94.35%
41.0	172.254	14.105	3458.196	0.33%	94.74%
42.0	146.701	11.588	3469.784	0.27%	95.06%
43.0	125.823	10.095	3479.879	0.24%	95.33%
44.0	110.271	8.911	3488.79	0.21%	95.58%
45.0	97.001	7.966	3496.756	0.19%	95.80%
46.0	86.584	7.180	3503.935	0.17%	95.99%
47.0	78.932	6.583	3510.518	0.16%	96.17%
48.0	74.119	6.187	3516.705	0.15%	96.34%
49.0	70.359	5.933	3522.638	0.14%	96.50%
50.0	67.228	5.736	3528.375	0.14%	96.66%
51.0	65.231	5.604	3533.979	0.13%	96.82%
52.0	63.343	5.517	3539.496	0.13%	96.97%
53.0	61.434	5.428	3544.924	0.13%	97.11%
54.0	59.166	5.316	3550.24	0.13%	97.26%
55.0	56.745	5.174	3555.414	0.12%	97.40%
56.0	54.214	5.014	3560.428	0.12%	97.54%
57.0	51.580	4.837	3565.265	0.11%	97.67%
58.0	48.596	4.632	3569.897	0.11%	97.80%
59.0	45.618	4.405	3574.302	0.10%	97.92%
60.0	42.656	4.170	3578.472	0.10%	98.03%
61.0	40.212	3.955	3582.427	0.09%	98.14%
62.0	37.981	3.768	3586.195	0.09%	98.25%
63.0	35.648	3.581	3589.776	0.08%	98.34%
64.0	33.336	3.385	3593.161	0.08%	98.44%
65.0	31.507	3.209	3596.37	0.08%	98.52%
66.0	29.722	3.055	3599.424	0.07%	98.61%
67.0	27.776	2.891	3602.316	0.07%	98.69%
68.0	26.233	2.736	3605.052	0.06%	98.76%
69.0	25.062	2.617	3607.668	0.06%	98.83%
70.0	24.067	2.523	3610.192	0.06%	98.90%
71.0	23.153	2.441	3612.632	0.06%	98.97%
72.0	22.451	2.371	3615.003	0.06%	99.03%
73.0	21.822	2.315	3617.319	0.05%	99.10%
74.0	21.273	2.266	3619.584	0.05%	99.16%
75.0	20.717	2.219	3621.803	0.05%	99.22%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	20.227	2.173	3623.976	0.05%	99.28%
77.0	19.766	2.132	3626.108	0.05%	99.34%
78.0	19.290	2.091	3628.199	0.05%	99.40%
79.0	18.800	2.047	3630.246	0.05%	99.45%
80.0	18.339	2.002	3632.248	0.05%	99.51%
81.0	17.937	1.962	3634.21	0.05%	99.56%
82.0	17.520	1.923	3636.133	0.05%	99.61%
83.0	17.096	1.882	3638.014	0.04%	99.67%
84.0	16.715	1.842	3639.856	0.04%	99.72%
85.0	16.379	1.806	3641.663	0.04%	99.77%
86.0	16.013	1.771	3643.433	0.04%	99.81%
87.0	15.728	1.737	3645.17	0.04%	99.86%
88.0	15.538	1.713	3646.883	0.04%	99.91%
89.0	15.252	1.688	3648.571	0.04%	99.95%
90.0	15.113	1.665	3650.236	0.04%	100.00%

Zonal flux distribution table

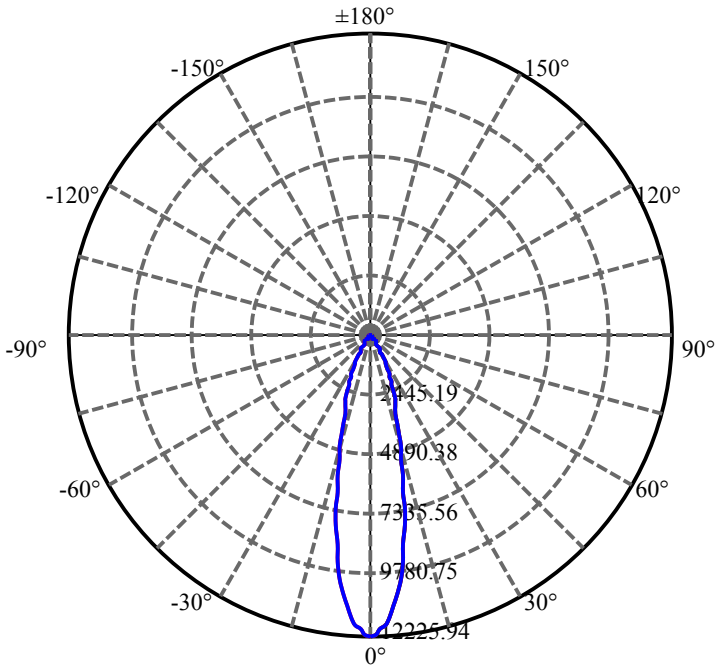
ZONAL LUMEN SUMMARY

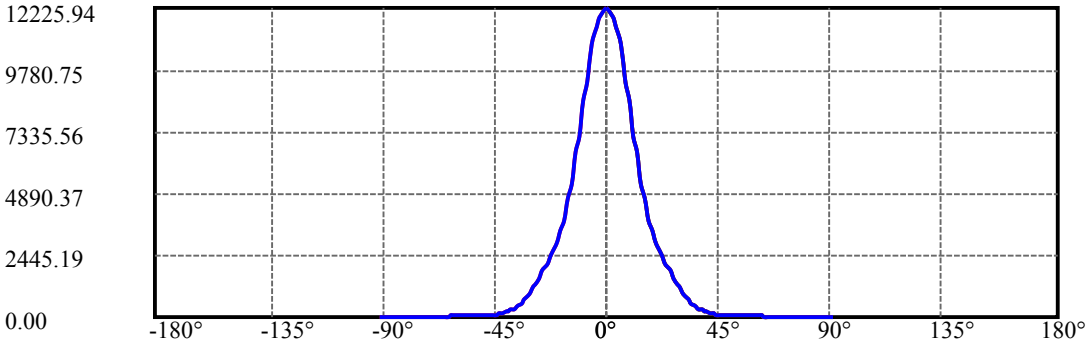
Zone	Lumens	%Lamp	%Fixt
0-30	3122.78	73.82%	85.55%
0-40	3444.09	81.42%	94.35%
0-60	3578.47	84.60%	98.03%
0-90	3648.57	86.25%	99.95%
0-120	3648.57	86.25%	99.95%
0-180	3650.24	86.29%	100.00%
60-90	70.10	1.66%	1.92%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.00	2920.19	69.04%	80.00%

ZONAL LUMEN SUMMARY

0-10	949.04
10-20	1318.67
20-30	855.07
30-40	321.31
40-50	84.28
50-60	50.10
60-70	31.72
70-80	22.06
80-90	16.32
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):

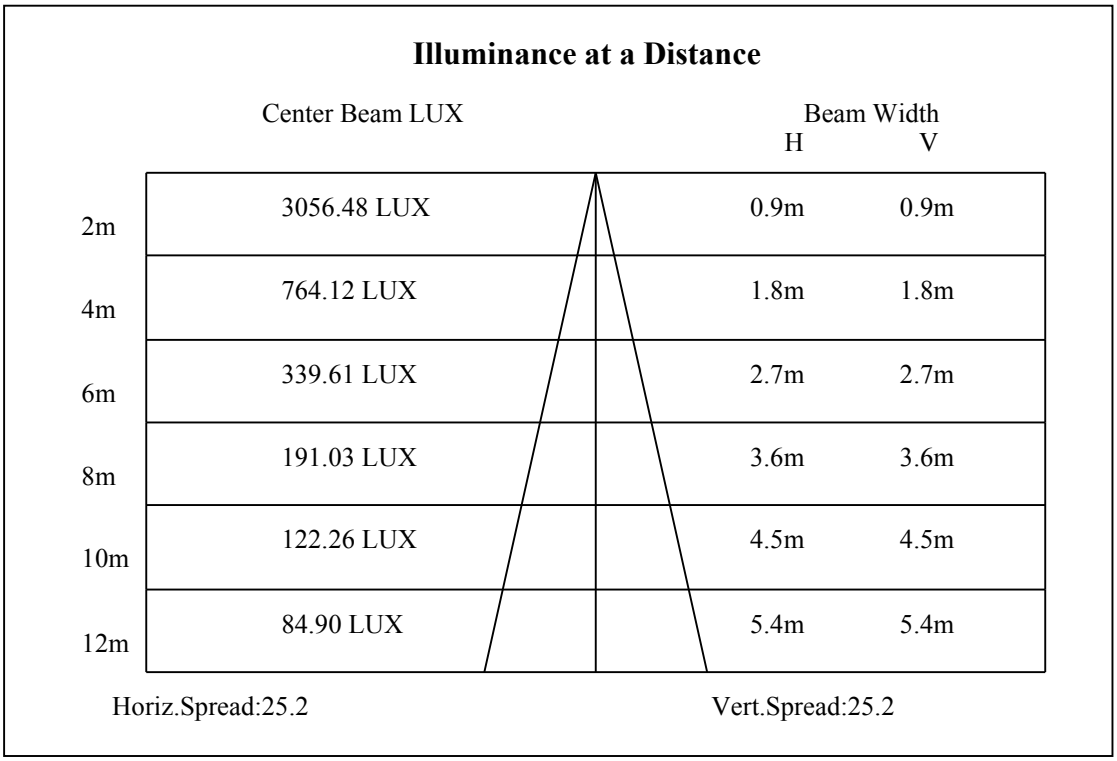
C0/C180:

C90/C270:

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

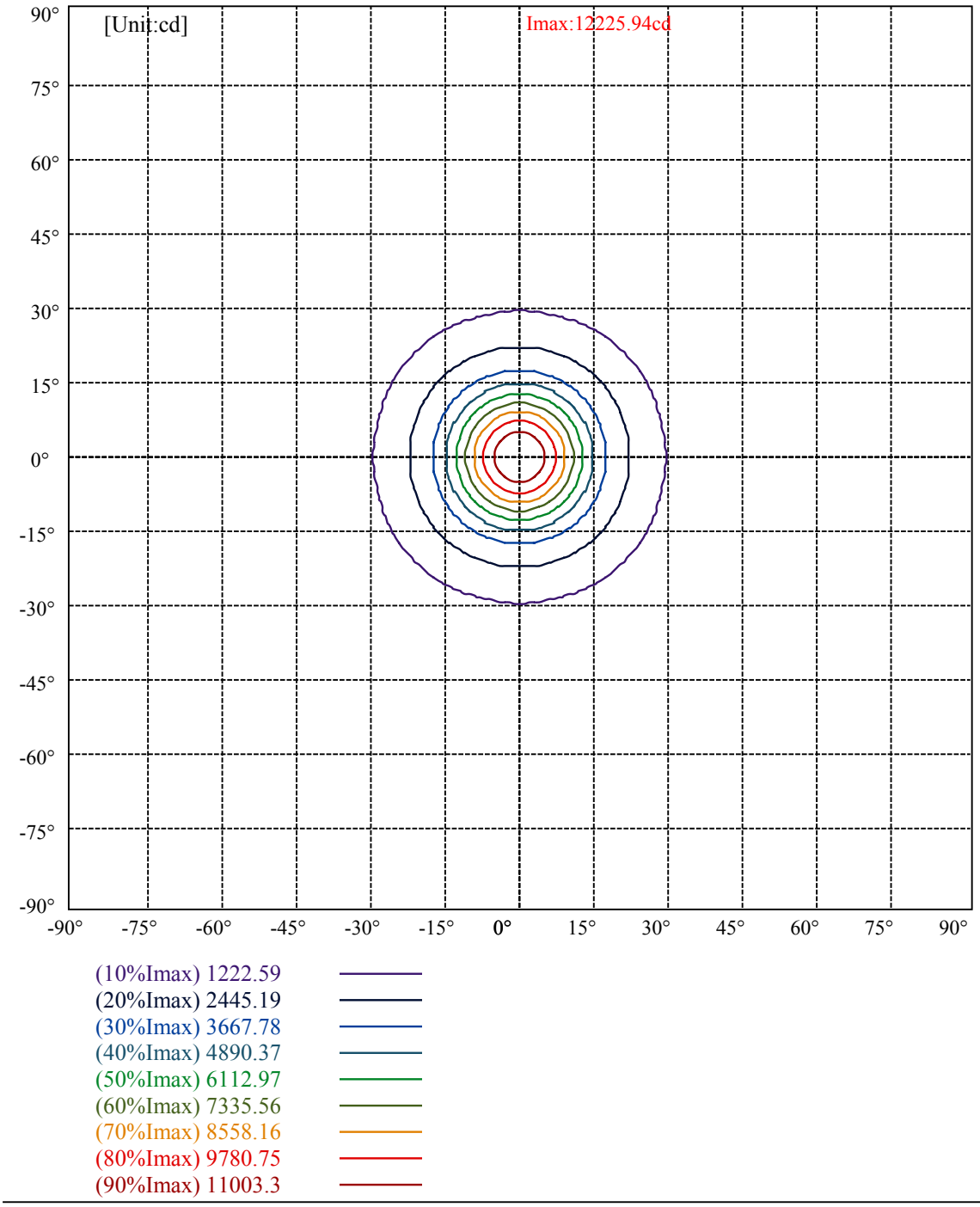
Beam Angle(50%Imax):C0/180Left:12.6 Right:12.6
:C90/270Left:12.6 Right:12.6

Lux distance Curve



Equipment: GMS1980 Date: 2024/3/26 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

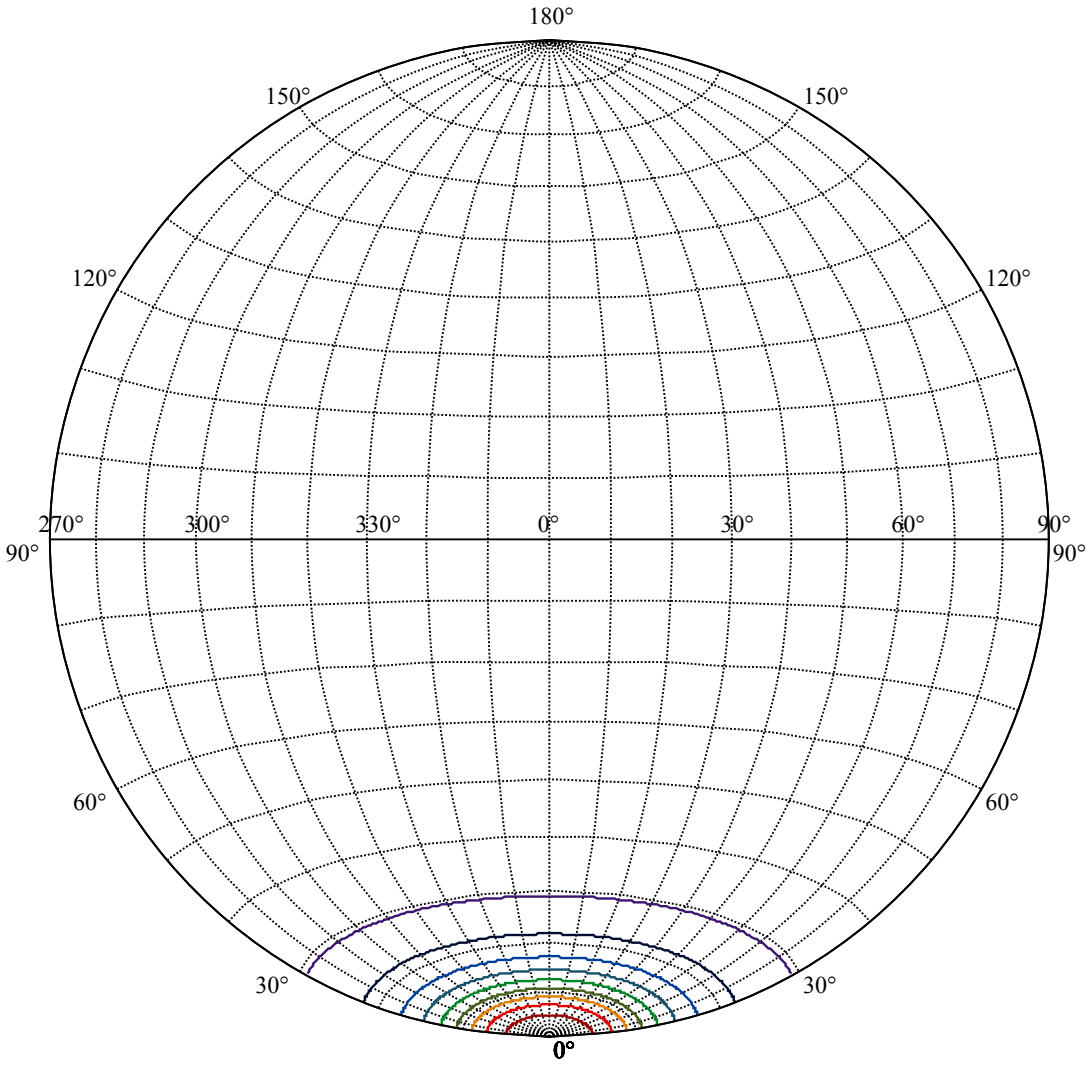


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/26
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



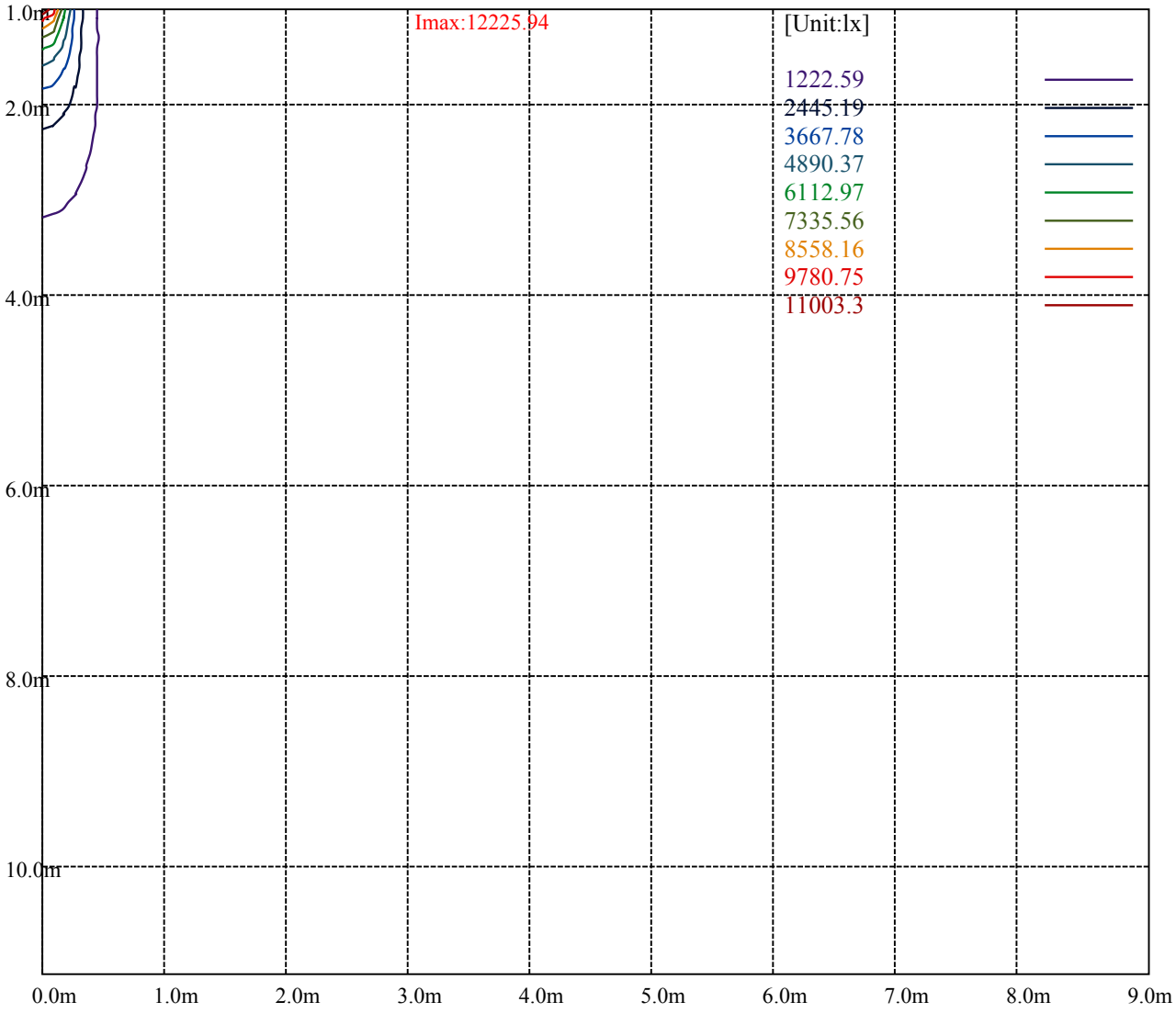
[Unit:cd]

Imax:12225.94

(10%Imax) 1222.59
(20%Imax) 2445.19
(30%Imax) 3667.78
(40%Imax) 4890.37
(50%Imax) 6112.97
(60%Imax) 7335.56
(70%Imax) 8558.16
(80%Imax) 9780.75
(90%Imax) 11003.3

Equipment: GMS1980	Date: 2024/3/26	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/26
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 2-2683-L

Luminance Limitting Curve(no luminous side)

Luminance Table

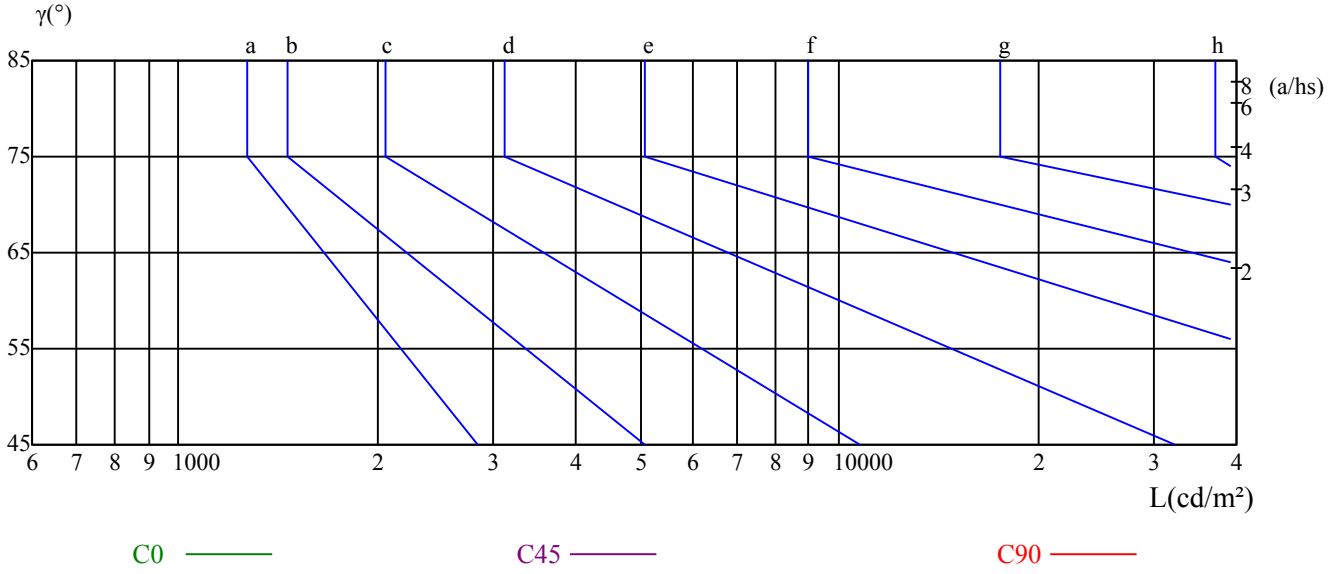
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

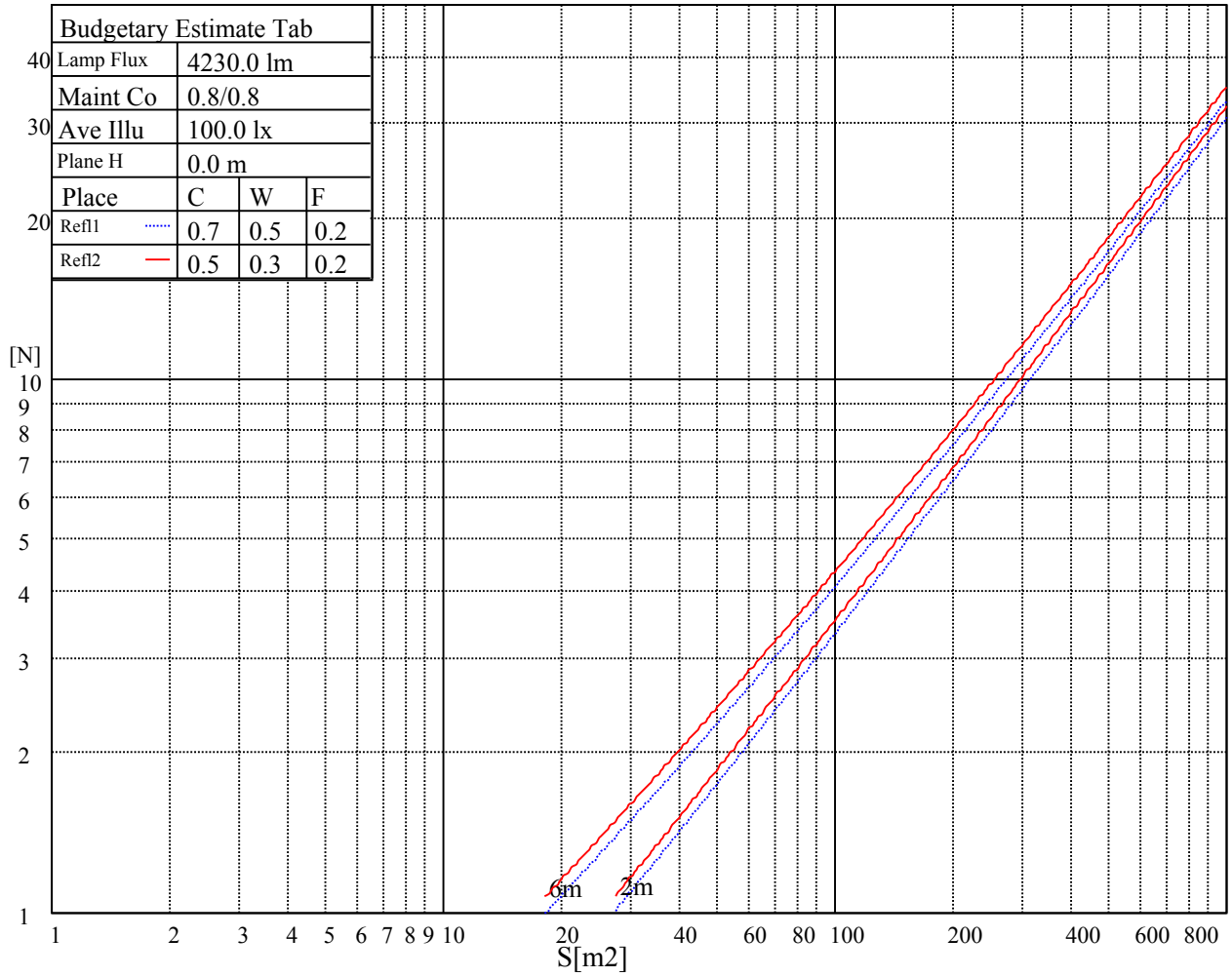
Date: 2024/3/26
Humidity(%): 60.0%

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

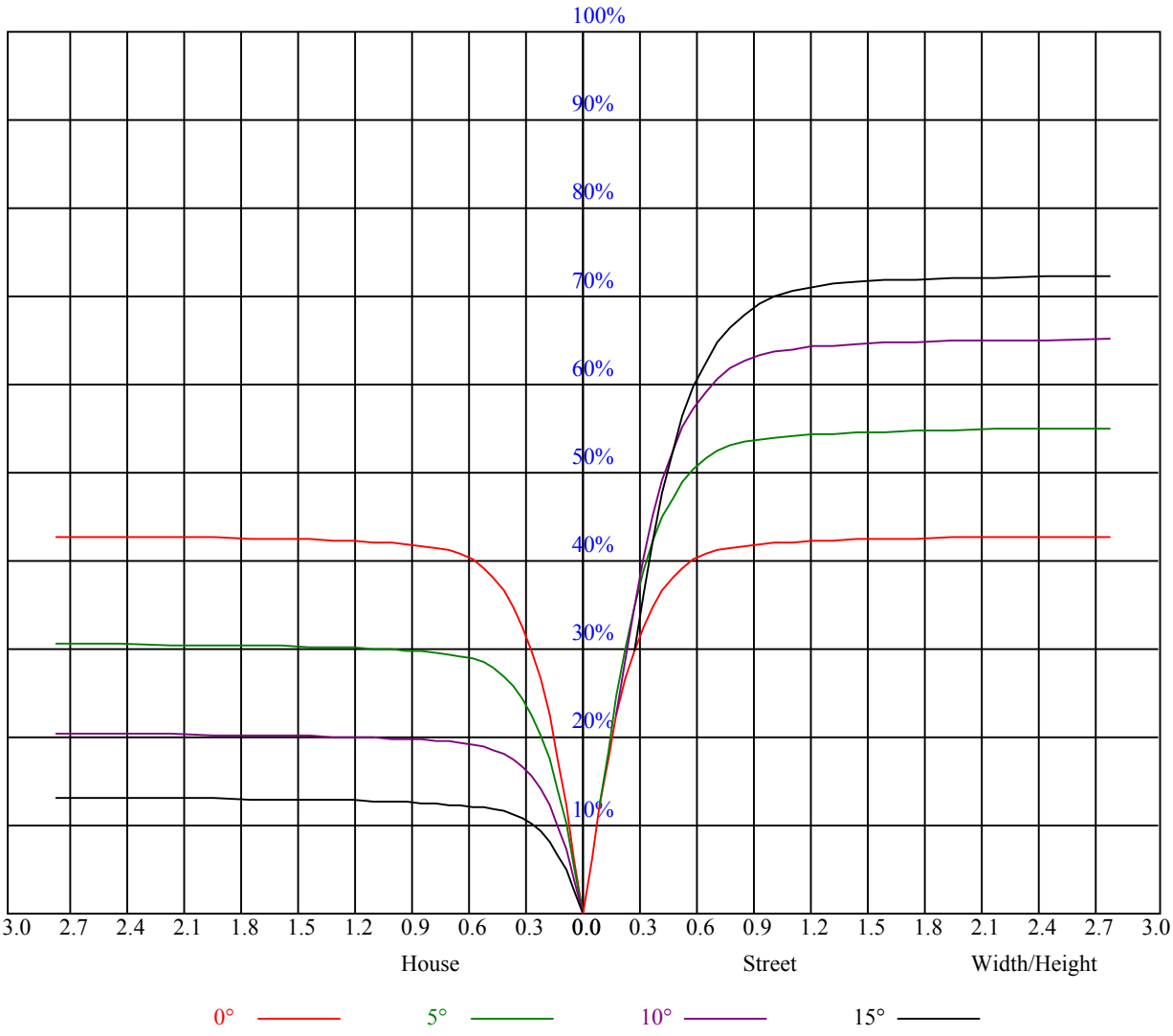


Equipment: GMS1980 Date: 2024/3/26 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

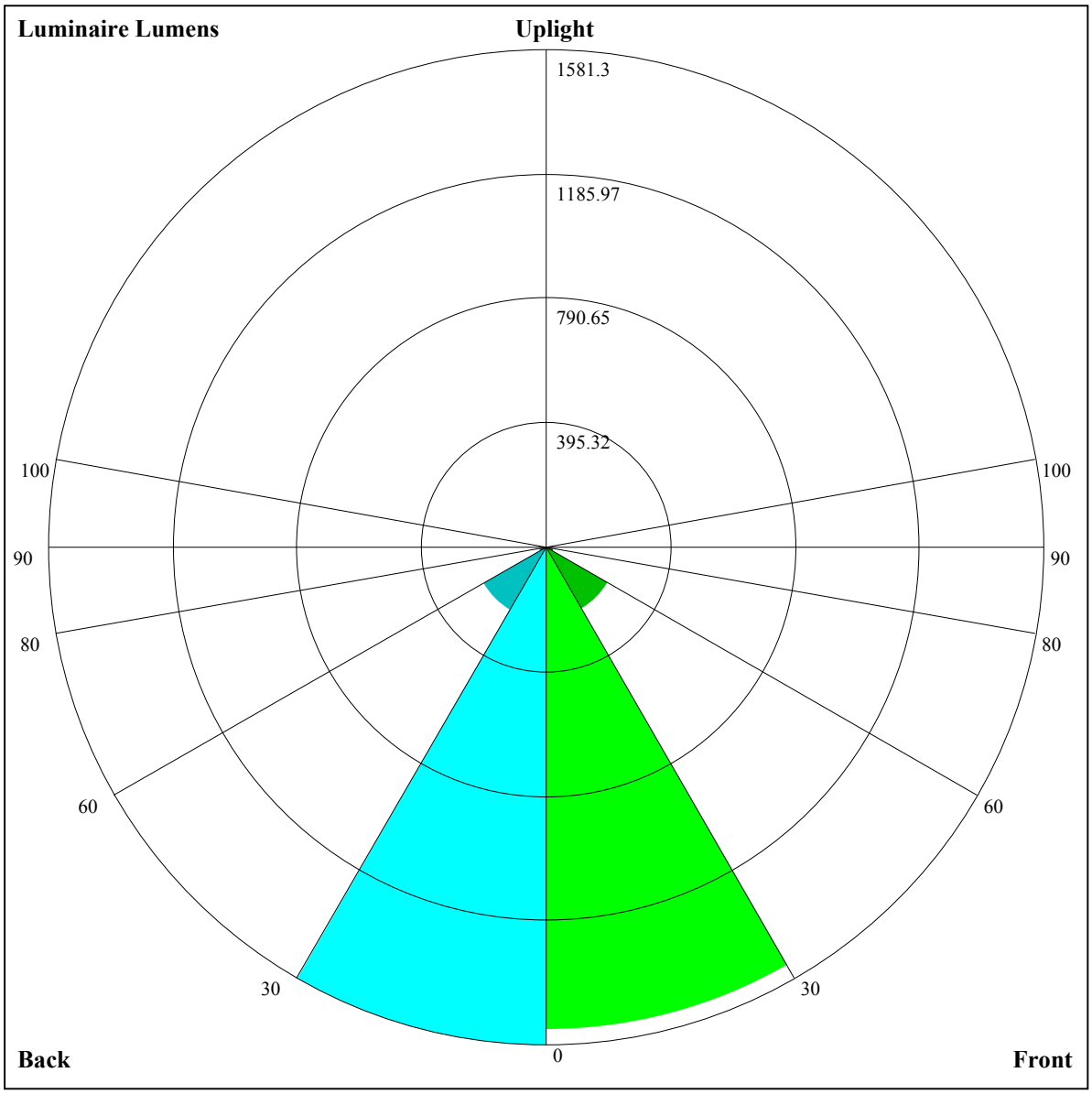
Utilization factor table for indoor luminaire

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	1.03	1.03	1.03	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.96	0.94	0.93	0.94	0.93	0.91	0.91	0.90	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.82
2	0.91	0.88	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.81	0.82	0.80	0.79	0.77
3	0.86	0.82	0.79	0.85	0.81	0.79	0.82	0.80	0.77	0.80	0.78	0.76	0.79	0.77	0.75	0.74
4	0.82	0.77	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.74	0.72	0.76	0.73	0.71	0.70
5	0.78	0.73	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.67
6	0.74	0.70	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.68	0.65	0.64
7	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62
8	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.59
9	0.66	0.62	0.59	0.65	0.61	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.57
10	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/3/26	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1535.45,FM=227.22,FH=26.7,FVH=8.98
BL=1581.3,BM=233.27,BH=27.16,BVH=9.03
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	12217.16	12146.93	11613.85	11613.85	11242.82	10690.95	10164.25	9556.78	8927.08
45.0	12228.86	12246.42	12135.23	11930.40	11655.34	11204.72	10742.39	10203.98	9443.19
90.0	12252.27	12164.49	11660.67	11660.67	11315.38	10768.20	10227.45	9619.40	8964.54
135.0	12205.45	12246.42	12193.75	12024.03	11731.42	11415.40	11011.59	10543.41	9829.44
180.0	12217.16	12258.12	12211.30	11988.92	11737.27	11415.40	10923.81	10420.52	9841.14
225.0	12228.86	12164.49	11620.87	11620.87	11349.33	10819.11	10306.46	9707.77	9054.07
270.0	12252.27	12211.30	12141.08	11965.51	11602.67	11216.42	10777.50	10274.21	9530.97
315.0	12205.45	11679.39	11679.39	11595.12	11105.29	10644.13	10114.50	9353.12	8710.55
360.0	12217.16	12146.93	11613.85	11613.85	11242.82	10690.95	10164.25	9556.78	8927.08

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8134.69	7471.04	6803.30	6022.02	5453.77	4810.61	4337.75	3917.55	3472.20
45.0	8817.00	8138.14	7465.13	6827.23	6089.85	5528.04	4989.63	4380.99	3953.78
90.0	8270.46	7424.22	6788.67	6198.76	5622.90	4958.08	4469.42	4029.92	3559.98
135.0	9197.40	8518.54	7640.70	6991.10	6382.46	5668.49	5112.53	4597.53	4029.86
180.0	9051.09	8354.67	7628.99	6950.13	6171.78	5586.56	5054.00	4556.56	3988.89
225.0	8209.59	7511.42	6844.26	6230.36	5522.83	5004.90	4395.68	3967.30	3589.24
270.0	8893.08	8249.33	7599.73	6768.71	6136.67	5551.44	4901.84	4433.66	4012.30
315.0	7911.13	7263.29	6616.03	5995.69	5286.40	4781.35	4323.12	3912.29	3550.62
360.0	8134.69	7471.04	6803.30	6022.02	5453.77	4810.61	4337.75	3917.55	3472.20

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3170.81	2921.50	2697.36	2496.04	2273.66	2113.89	1962.32	1816.60	1638.10
45.0	3585.09	3198.84	2999.86	2999.86	2471.46	2299.41	2139.64	1952.37	1800.80
90.0	3250.40	2984.12	2695.60	2491.36	2266.05	2104.53	1950.61	1801.97	1657.42
135.0	3643.61	3310.03	3040.83	2976.45	2713.75	2336.86	2167.15	1971.10	1819.52
180.0	3590.94	3245.66	2982.31	2982.31	2474.39	2242.06	2086.39	1921.35	1741.10
225.0	3183.68	2917.41	2685.07	2431.08	2256.10	2093.99	1941.25	1792.02	1607.67
270.0	3532.42	3204.69	3011.57	3011.57	2486.09	2300.58	2103.36	1955.88	1809.57
315.0	3155.01	2902.77	2682.73	2436.94	2267.22	2074.10	1926.62	1783.24	1604.16
360.0	3170.81	2921.50	2697.36	2496.04	2273.66	2113.89	1962.32	1816.60	1638.10

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1494.14	1166.82	1166.82	1023.15	844.83	712.45	596.99	482.75	411.53
45.0	1653.90	1505.84	1356.61	1172.26	1027.71	884.33	719.30	608.69	521.49
90.0	1472.48	1137.03	1137.03	1027.66	848.58	717.78	583.35	499.37	430.49
135.0	1672.63	1488.87	1344.32	1200.94	1021.28	877.90	710.52	598.74	510.37
180.0	1595.38	1458.44	1319.16	1138.32	989.67	855.66	725.74	582.94	492.82
225.0	1355.44	1166.00	1166.00	982.36	840.03	709.35	571.94	487.79	404.27
270.0	1663.85	1521.64	1336.13	1183.38	1032.98	848.63	712.86	572.99	485.80
315.0	1462.54	1132.35	1132.35	987.22	844.89	711.75	596.52	504.41	413.40
360.0	1494.14	1166.82	1166.82	1023.15	844.83	712.45	596.99	482.75	411.53

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	352.19	301.92	248.43	212.73	183.76	159.12	133.90	117.75	104.40
45.0	433.13	374.02	311.98	300.86	300.86	198.04	164.86	142.21	123.25
90.0	359.39	310.93	267.80	221.57	191.08	163.69	139.87	116.05	101.71
135.0	436.64	360.56	308.47	295.60	295.60	182.24	156.61	134.43	116.11
180.0	430.20	355.88	309.64	297.94	247.26	187.15	154.97	133.31	115.58
225.0	348.21	300.40	249.60	215.25	185.52	160.35	138.35	115.76	101.71
270.0	414.98	341.83	303.21	303.21	211.73	175.74	152.33	132.90	117.16
315.0	353.01	289.39	247.20	211.68	174.92	151.69	132.73	114.18	102.24
360.0	352.19	301.92	248.43	212.73	183.76	159.12	133.90	117.75	104.40

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	90.94	82.87	77.78	72.98	69.82	66.72	64.90	63.03	60.80
45.0	107.92	93.23	84.80	78.95	74.44	69.82	67.53	65.02	62.97
90.0	90.53	81.99	75.08	71.63	68.12	65.66	64.20	62.03	60.28
135.0	98.61	87.96	79.36	73.04	70.17	66.36	64.43	63.32	61.74
180.0	101.54	90.48	80.29	75.32	71.81	68.88	66.25	64.96	63.26
225.0	90.36	81.81	74.85	71.10	67.01	64.90	63.38	61.10	59.40
270.0	104.23	90.65	82.05	76.55	71.63	68.18	65.84	63.97	61.80
315.0	91.88	83.69	77.25	73.39	69.88	67.30	65.31	63.32	61.21
360.0	90.94	82.87	77.78	72.98	69.82	66.72	64.90	63.03	60.80

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	58.35	55.42	52.85	49.74	47.05	43.54	40.73	38.80	36.17
45.0	61.04	58.05	55.71	53.37	49.51	47.05	44.18	41.20	39.21
90.0	58.23	55.30	53.14	50.15	47.34	44.54	41.02	39.15	37.16
135.0	59.63	58.23	55.83	53.84	50.80	47.81	45.12	42.14	39.33
180.0	61.10	59.28	56.42	54.07	51.50	47.93	45.12	42.14	40.03
225.0	57.35	54.54	52.20	49.51	46.64	43.60	40.79	38.68	36.99
270.0	59.52	57.24	55.07	52.61	49.16	46.47	43.89	41.02	38.57
315.0	58.11	55.89	52.49	49.33	46.76	44.01	40.38	38.57	36.40
360.0	58.35	55.42	52.85	49.74	47.05	43.54	40.73	38.80	36.17

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	33.88	31.89	30.26	28.32	26.51	25.40	24.40	23.53	22.82
45.0	36.64	34.24	32.60	30.61	28.62	27.15	25.69	24.76	23.58
90.0	34.76	32.60	31.02	29.14	27.10	25.87	24.52	23.53	22.77
135.0	37.57	34.70	33.01	31.49	29.20	27.33	26.10	25.05	23.76
180.0	37.51	35.05	33.12	31.43	29.14	27.33	26.04	24.76	23.76
225.0	34.12	32.25	30.26	28.50	26.74	25.28	24.35	23.47	22.71
270.0	36.69	34.12	31.84	30.26	28.32	26.34	25.22	24.29	23.29
315.0	34.00	31.84	29.96	28.03	26.57	25.16	24.17	23.17	22.53
360.0	33.88	31.89	30.26	28.32	26.51	25.40	24.40	23.53	22.82

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	22.06	21.54	21.01	20.54	20.01	19.55	18.96	18.55	18.08
45.0	22.94	22.30	21.71	21.07	20.60	20.13	19.72	19.14	18.67
90.0	22.06	21.48	20.95	20.48	20.01	19.49	19.02	18.61	18.20
135.0	22.94	22.30	21.71	21.01	20.60	20.13	19.61	19.14	18.67
180.0	23.00	22.18	21.59	21.01	20.48	20.07	19.61	19.14	18.61
225.0	22.00	21.48	20.95	20.48	19.96	19.49	19.08	18.49	18.14
270.0	22.65	22.06	21.54	20.89	20.42	20.01	19.55	18.96	18.49
315.0	21.95	21.24	20.72	20.25	19.72	19.25	18.79	18.38	17.85
360.0	22.06	21.54	21.01	20.54	20.01	19.55	18.96	18.55	18.08

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	17.67	17.26	16.85	16.44	16.15	15.80	15.57	15.51	15.10
45.0	18.32	17.79	17.38	16.91	16.56	16.15	15.86	15.57	15.39
90.0	17.73	17.32	16.97	16.62	16.33	15.92	15.57	15.57	14.98
135.0	18.20	17.85	17.38	16.97	16.62	16.33	16.04	15.57	15.45
180.0	18.20	17.79	17.38	16.97	16.62	16.27	15.92	15.51	15.57
225.0	17.79	17.38	16.97	16.62	16.27	15.86	15.57	15.57	15.04
270.0	18.08	17.62	17.15	16.80	16.39	16.04	15.74	15.51	15.33
315.0	17.50	17.15	16.68	16.39	16.09	15.74	15.57	15.51	15.16
360.0	17.67	17.26	16.85	16.44	16.15	15.80	15.57	15.51	15.10

Intensity data(cd)

C/γ(°)	90.0
0.0	15.22
45.0	15.10
90.0	15.16
135.0	15.04
180.0	15.04
225.0	15.04
270.0	15.04
315.0	15.27
360.0	15.22