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: 2-2686-L
Luminaire: 92.70.412.00
Report No: 2024326-B020
Ballast type: AC

Test No: 2024326-C020	Voltage(V): 34.430
LampCAT: Fortimo_SLM_C_1210	Current(A): 0.720
Lamp flux(lm): 4230.0	Power (W): 24.789
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3564.93, Efficiency(%): 84.28% , Luminous Efficacy(lm/W): 143.81
Central intensity(cd): 19128.660, Maximum intensity(cd): 19128.660
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=18.2
[C90/270]Total=18.2
Field angle(10%Imax): [C0/180]Total=46.0
[C90/270]Total=46.0
Maximum s/h(1/2): C0_180=0.31 C90_270=0.31
Maximum s/h(1/4): C0_180=0.33 C90_270=0.33
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.28%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.028%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	19128.664	0.000	0	0.00%	0.00%
1.0	18985.283	18.237	18.237	0.43%	0.51%
2.0	18581.479	53.919	72.156	1.27%	2.02%
3.0	17936.268	87.338	159.495	2.06%	4.47%
4.0	16997.715	116.935	276.43	2.76%	7.75%
5.0	15453.532	139.604	416.033	3.30%	11.67%
6.0	13683.753	153.124	569.158	3.62%	15.97%
7.0	12515.432	162.618	731.776	3.84%	20.53%
8.0	11273.145	170.250	902.026	4.02%	25.30%
9.0	9746.513	170.353	1072.379	4.03%	30.08%
10.0	8299.837	163.313	1235.692	3.86%	34.66%
11.0	7148.333	154.359	1390.051	3.65%	38.99%
12.0	6132.748	145.181	1535.232	3.43%	43.06%
13.0	5271.517	135.340	1670.572	3.20%	46.86%
14.0	4616.796	126.570	1797.141	2.99%	50.41%
15.0	4113.649	119.855	1916.997	2.83%	53.77%
16.0	3673.852	114.109	2031.105	2.70%	56.97%
17.0	3297.114	108.557	2139.662	2.57%	60.02%
18.0	2995.942	103.759	2243.421	2.45%	62.93%
19.0	2812.035	101.047	2344.468	2.39%	65.76%
20.0	2588.787	98.850	2443.318	2.34%	68.54%
21.0	2331.076	94.471	2537.789	2.23%	71.19%
22.0	2071.682	88.475	2626.264	2.09%	73.67%
23.0	1906.722	83.478	2709.742	1.97%	76.01%
24.0	1769.486	80.375	2790.117	1.90%	78.27%
25.0	1637.738	77.473	2867.59	1.83%	80.44%
26.0	1445.096	72.771	2940.361	1.72%	82.48%
27.0	1294.342	67.021	3007.382	1.58%	84.36%
28.0	1191.408	62.934	3070.316	1.49%	86.13%
29.0	1043.295	58.466	3128.782	1.38%	87.77%
30.0	881.159	51.960	3180.742	1.23%	89.22%
31.0	738.715	45.079	3225.82	1.07%	90.49%
32.0	599.651	38.343	3264.163	0.91%	91.56%
33.0	465.839	31.390	3295.553	0.74%	92.44%
34.0	348.699	24.650	3320.203	0.58%	93.14%
35.0	274.522	19.355	3339.558	0.46%	93.68%
36.0	235.787	16.248	3355.806	0.38%	94.13%
37.0	184.397	13.704	3369.51	0.32%	94.52%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	153.563	11.281	3380.791	0.27%	94.83%
39.0	138.640	9.974	3390.765	0.24%	95.11%
40.0	124.799	9.188	3399.952	0.22%	95.37%
41.0	111.858	8.427	3408.38	0.20%	95.61%
42.0	99.700	7.686	3416.066	0.18%	95.82%
43.0	89.517	7.009	3423.075	0.17%	96.02%
44.0	81.156	6.442	3429.517	0.15%	96.20%
45.0	73.965	5.961	3435.478	0.14%	96.37%
46.0	67.323	5.525	3441.004	0.13%	96.52%
47.0	61.632	5.129	3446.133	0.12%	96.67%
48.0	57.045	4.798	3450.93	0.11%	96.80%
49.0	53.043	4.521	3455.451	0.11%	96.93%
50.0	49.291	4.267	3459.718	0.10%	97.05%
51.0	46.328	4.045	3463.763	0.10%	97.16%
52.0	43.760	3.866	3467.629	0.09%	97.27%
53.0	41.551	3.711	3471.34	0.09%	97.37%
54.0	39.686	3.581	3474.92	0.08%	97.48%
55.0	37.996	3.468	3478.388	0.08%	97.57%
56.0	36.620	3.372	3481.76	0.08%	97.67%
57.0	35.487	3.297	3485.057	0.08%	97.76%
58.0	34.492	3.236	3488.293	0.08%	97.85%
59.0	33.716	3.189	3491.481	0.08%	97.94%
60.0	33.109	3.157	3494.639	0.07%	98.03%
61.0	32.590	3.135	3497.774	0.07%	98.12%
62.0	32.034	3.114	3500.888	0.07%	98.20%
63.0	31.295	3.080	3503.968	0.07%	98.29%
64.0	30.446	3.030	3506.997	0.07%	98.37%
65.0	29.451	2.964	3509.962	0.07%	98.46%
66.0	28.266	2.880	3512.841	0.07%	98.54%
67.0	26.972	2.778	3515.619	0.07%	98.62%
68.0	25.860	2.676	3518.295	0.06%	98.69%
69.0	24.989	2.594	3520.889	0.06%	98.76%
70.0	24.448	2.539	3523.428	0.06%	98.84%
71.0	24.038	2.506	3525.934	0.06%	98.91%
72.0	23.548	2.474	3528.409	0.06%	98.98%
73.0	23.087	2.439	3530.847	0.06%	99.04%
74.0	22.663	2.405	3533.252	0.06%	99.11%
75.0	22.195	2.370	3535.623	0.06%	99.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	21.661	2.328	3537.951	0.06%	99.24%
77.0	21.105	2.280	3540.231	0.05%	99.31%
78.0	20.519	2.228	3542.459	0.05%	99.37%
79.0	19.883	2.171	3544.63	0.05%	99.43%
80.0	19.217	2.108	3546.738	0.05%	99.49%
81.0	18.552	2.042	3548.78	0.05%	99.55%
82.0	17.842	1.974	3550.754	0.05%	99.60%
83.0	17.242	1.907	3552.661	0.05%	99.66%
84.0	16.833	1.856	3554.517	0.04%	99.71%
85.0	16.438	1.816	3556.333	0.04%	99.76%
86.0	16.021	1.774	3558.107	0.04%	99.81%
87.0	15.728	1.738	3559.845	0.04%	99.86%
88.0	15.508	1.711	3561.556	0.04%	99.91%
89.0	15.355	1.692	3563.247	0.04%	99.95%
90.0	15.304	1.681	3564.928	0.04%	100.00%

Zonal flux distribution table

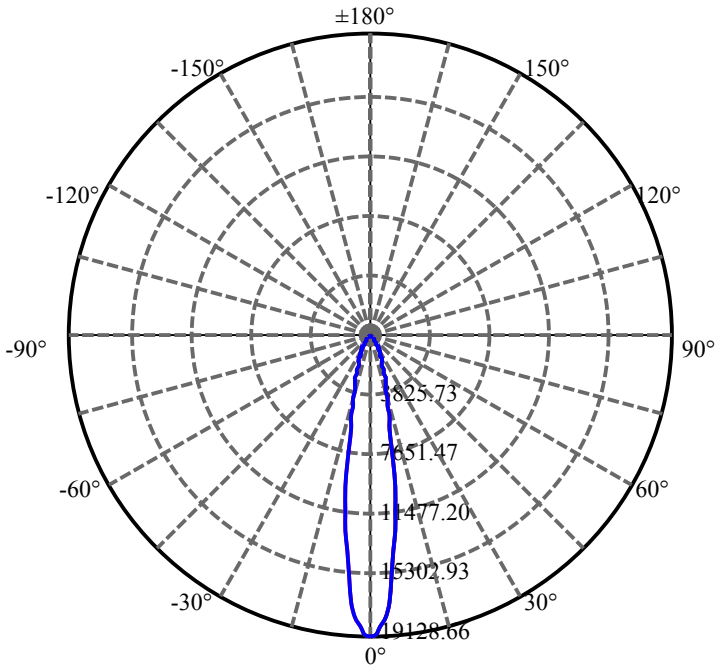
ZONAL LUMEN SUMMARY

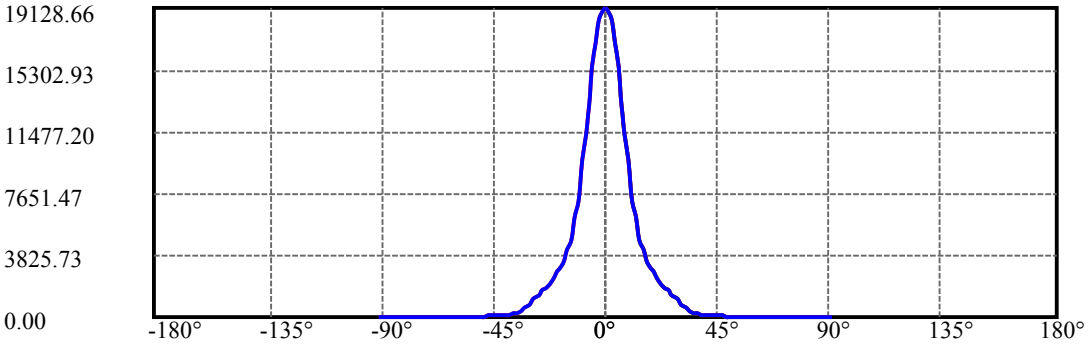
Zone	Lumens	%Lamp	%Fixt
0-30	3180.74	75.19%	89.22%
0-40	3399.95	80.38%	95.37%
0-60	3494.64	82.62%	98.03%
0-90	3563.25	84.24%	99.95%
0-120	3563.25	84.24%	99.95%
0-180	3564.93	84.28%	100.00%
60-90	68.61	1.62%	1.92%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.80	2851.94	67.42%	80.00%

ZONAL LUMEN SUMMARY

0-10	1235.69
10-20	1207.63
20-30	737.42
30-40	219.21
40-50	59.77
50-60	34.92
60-70	28.79
70-80	23.31
80-90	16.51
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):

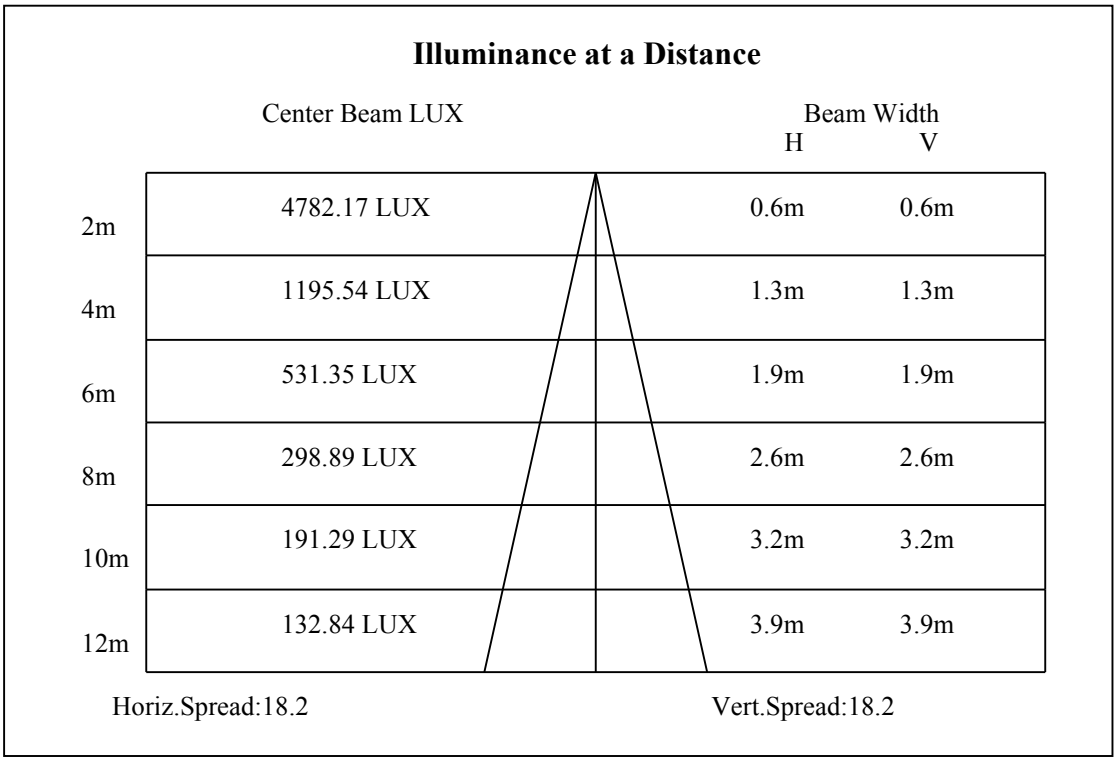
C0/C180:

C90/C270:

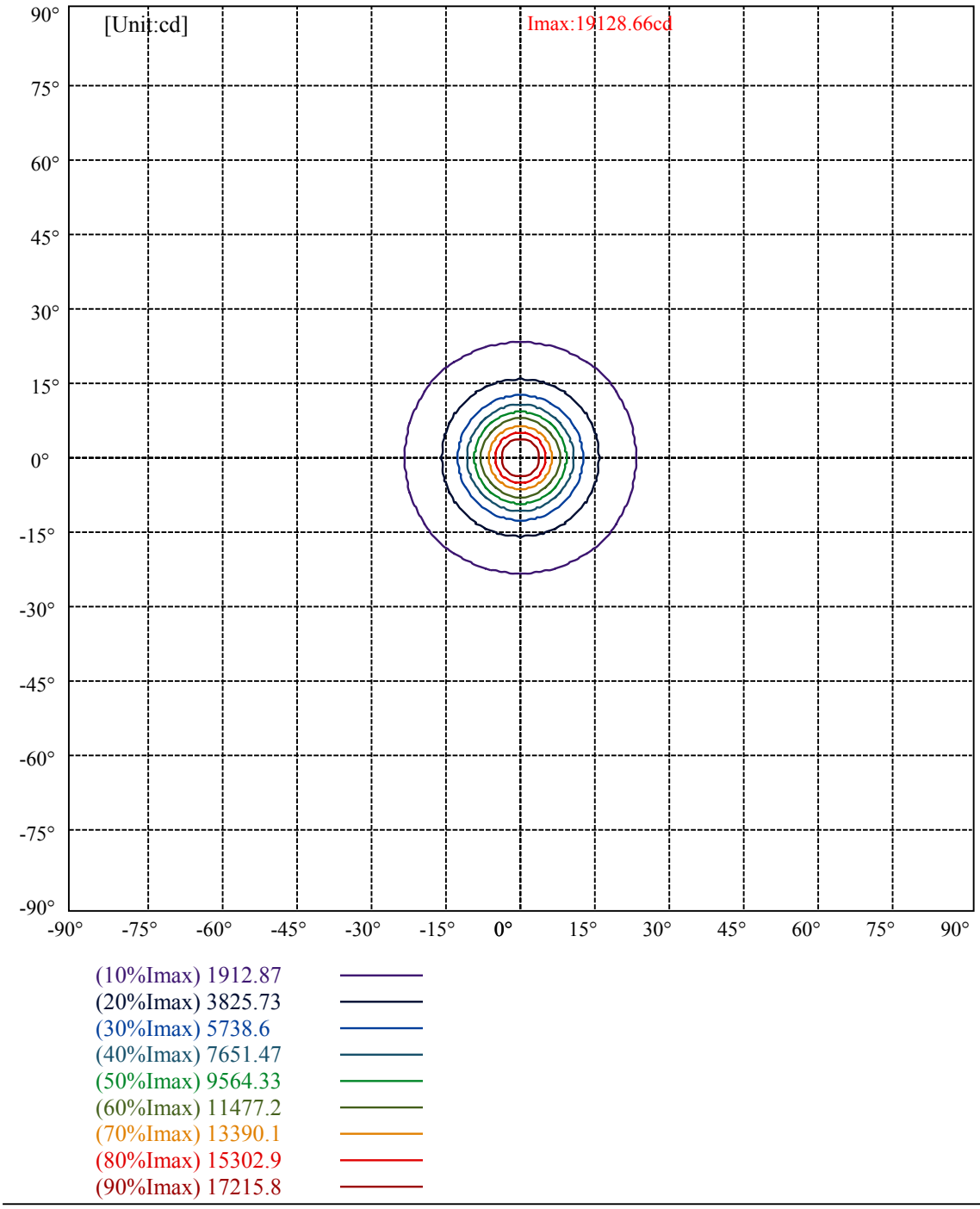
Field angle(10%Imax):C0/180Left:23.0 Right:23.0
:C90/270Left:23.0 Right:23.0

Beam Angle(50%Imax):C0/180Left:9.1 Right:9.1
:C90/270Left:9.1 Right:9.1

Lux distance Curve

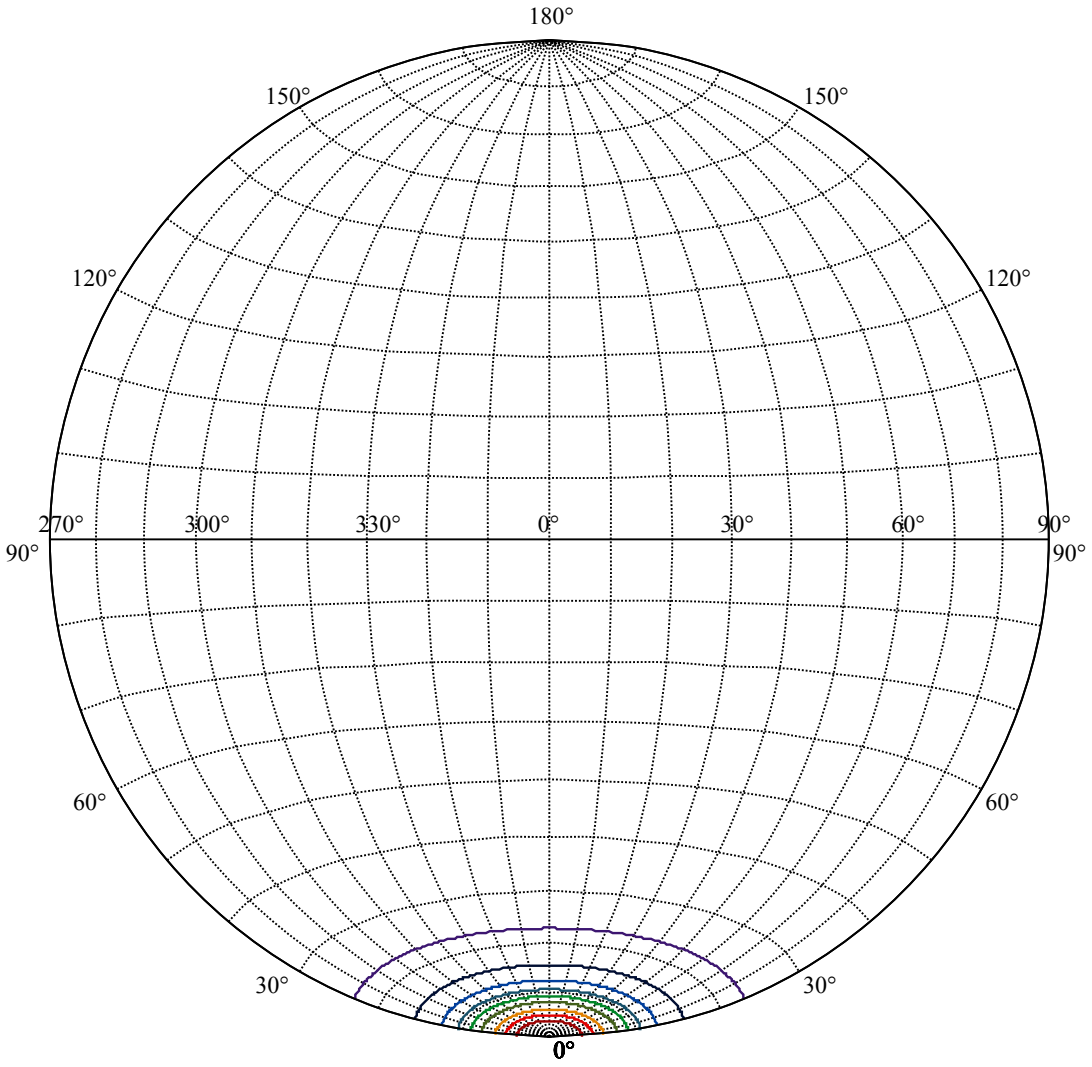


Equipment: GMS1980 Date: 2024/3/26 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65



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

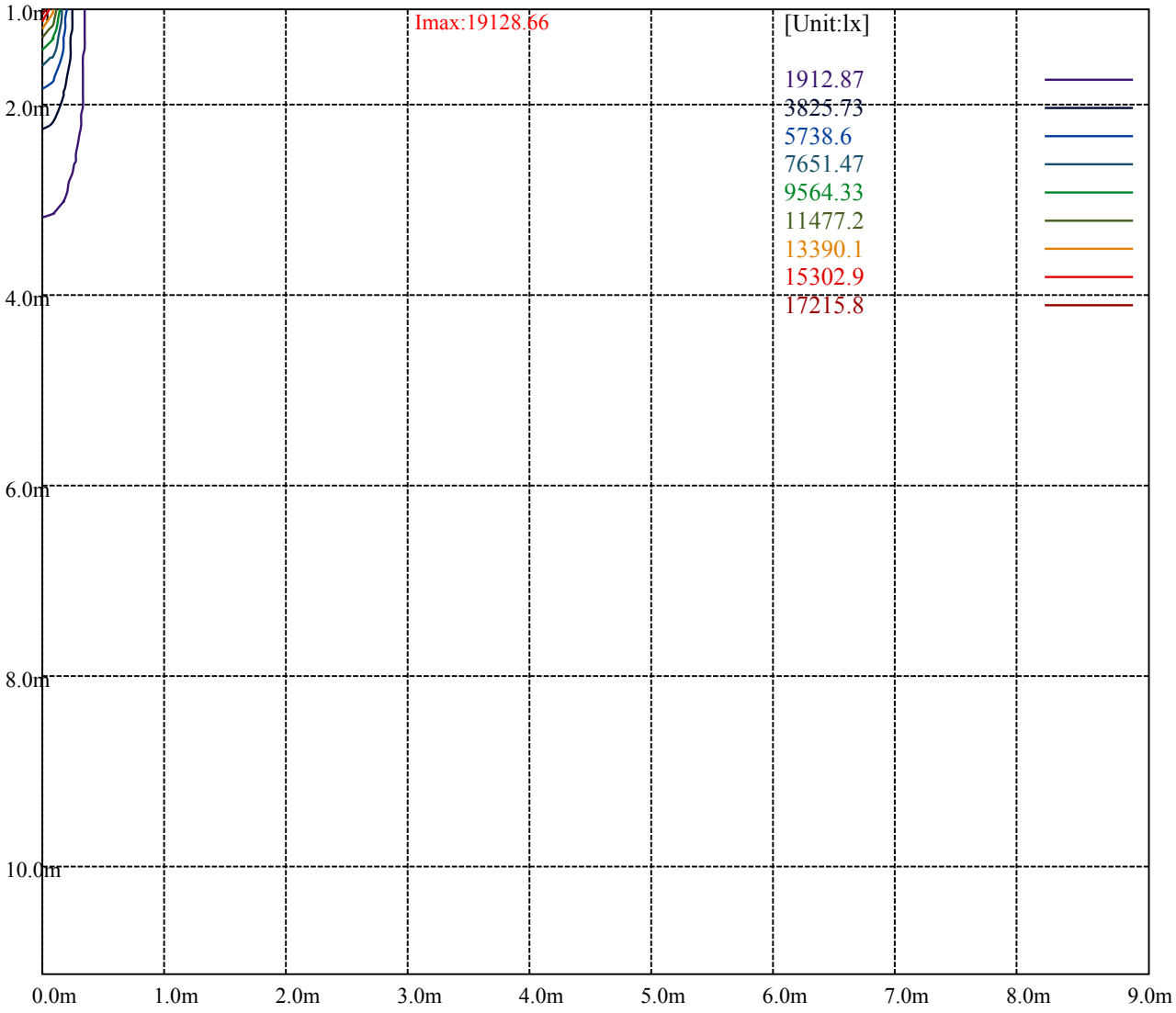


House [Unit:cd] Road

Imax:19128.66

(10%Imax) 1912.87
(20%Imax) 3825.73
(30%Imax) 5738.6
(40%Imax) 7651.47
(50%Imax) 9564.33
(60%Imax) 11477.2
(70%Imax) 13390.1
(80%Imax) 15302.9
(90%Imax) 17215.8

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

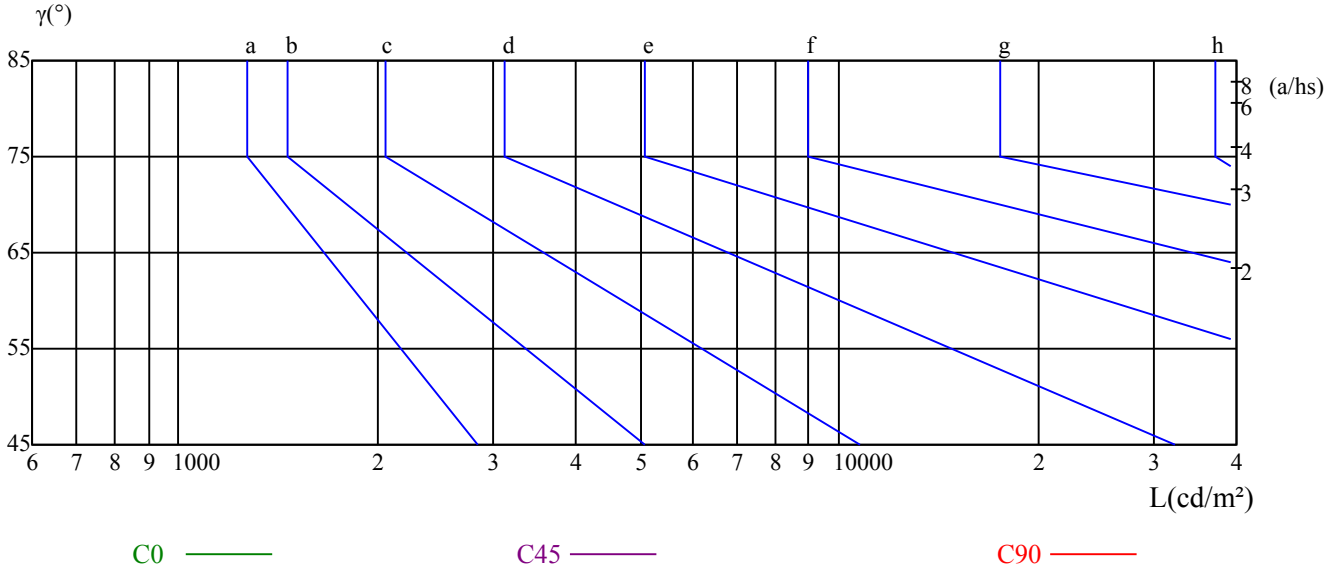
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

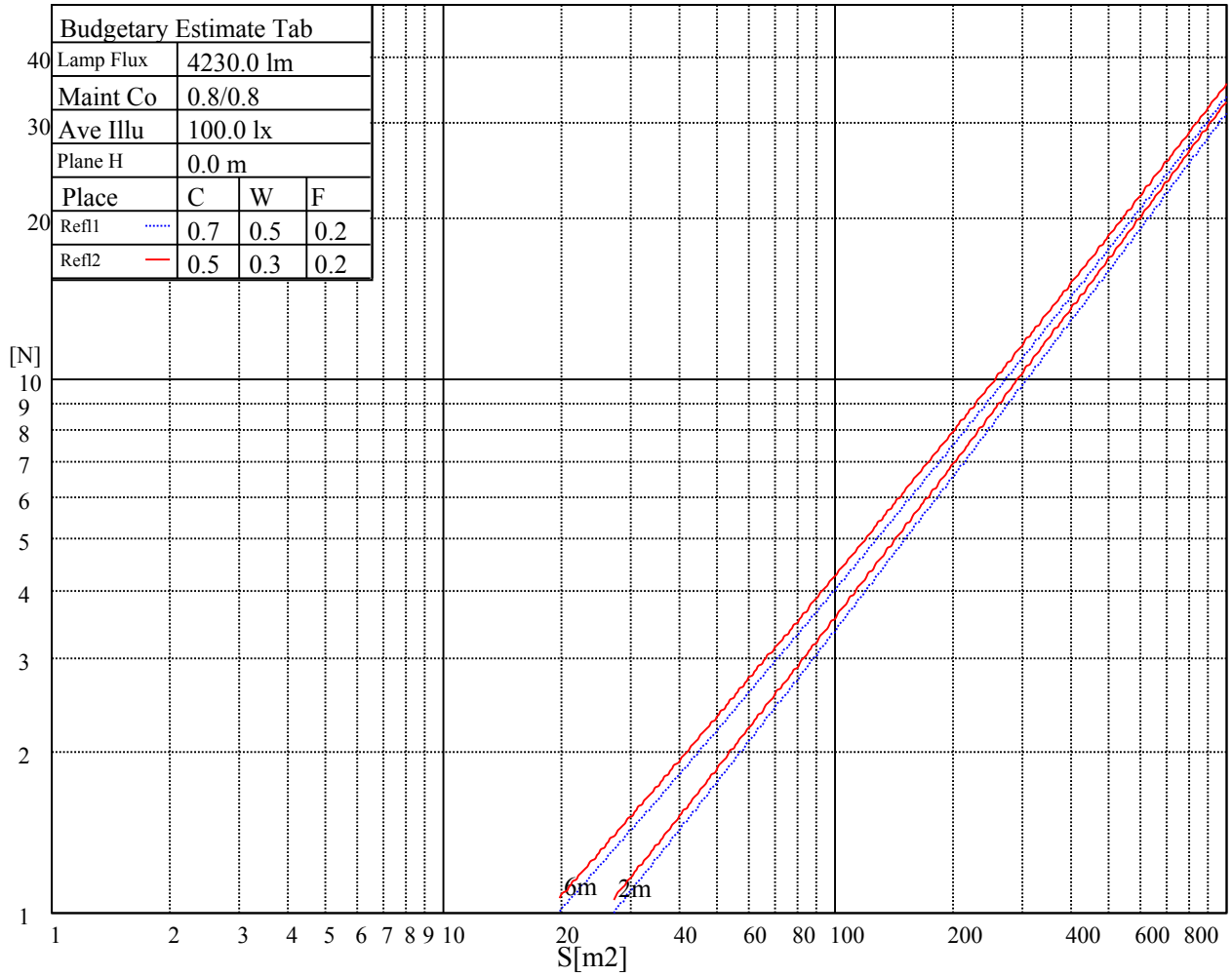
Luminance Limitting Curve



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

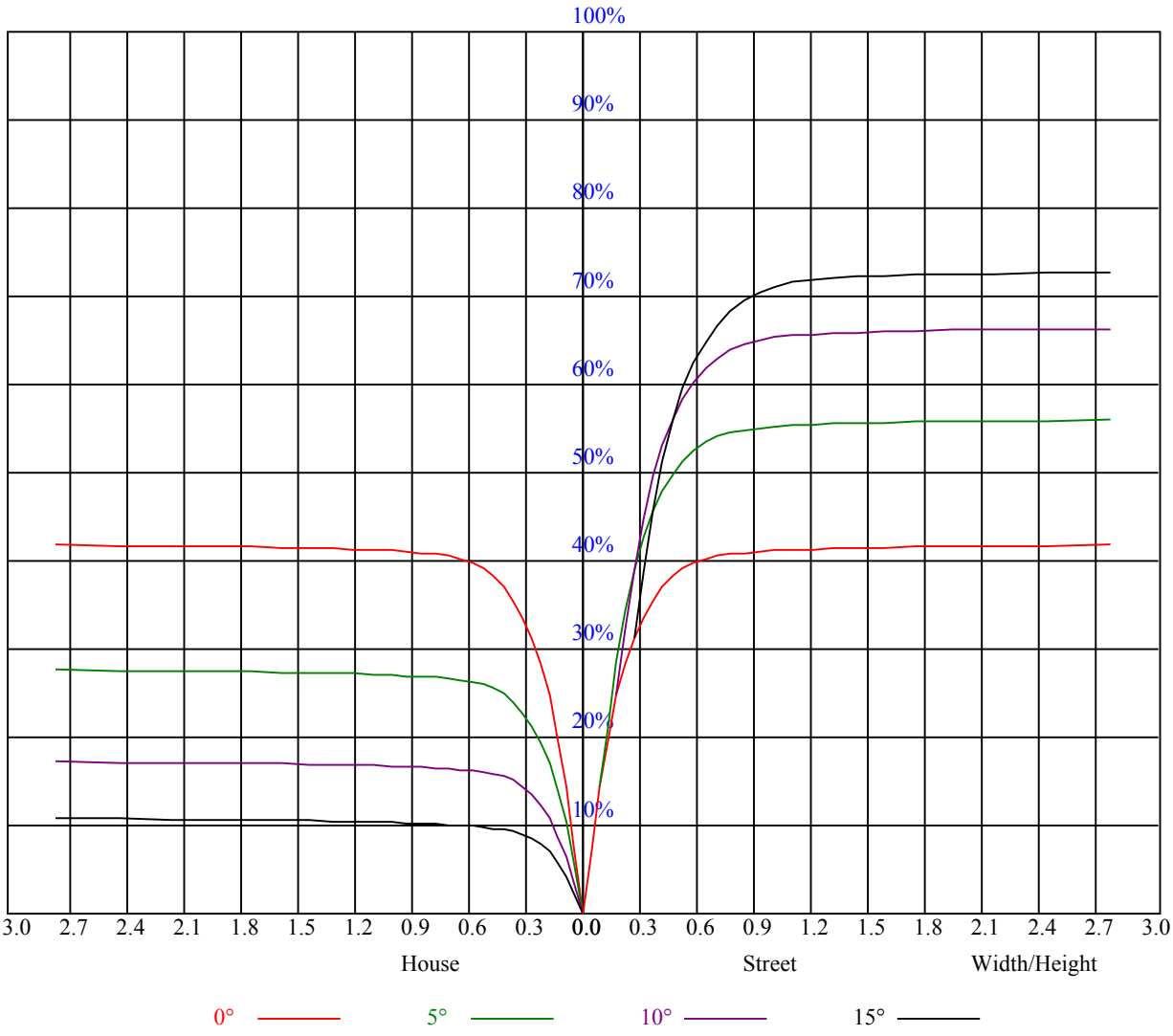


Equipment: GMS1980 Date: 2024/3/26 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

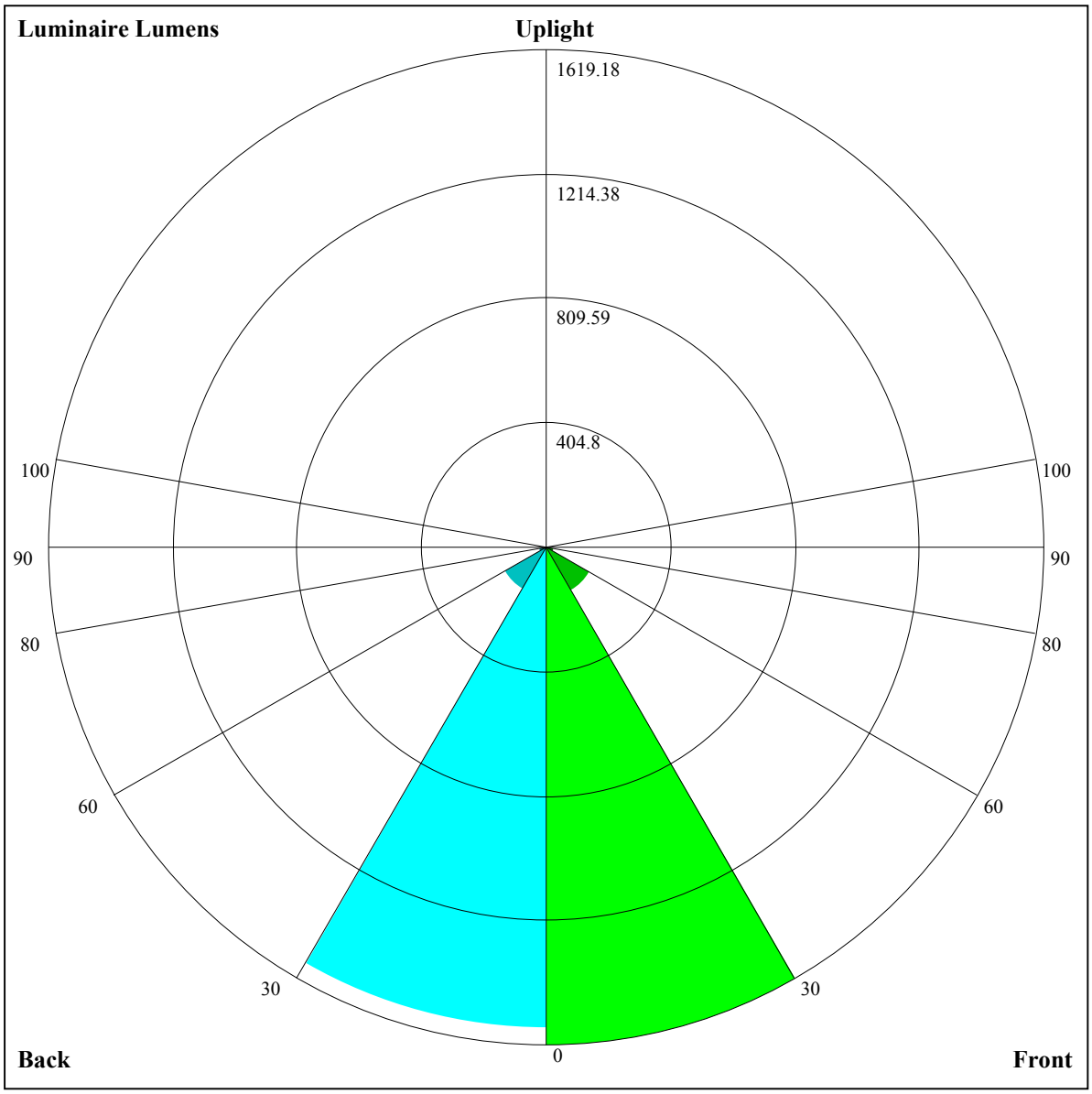
Utilization factor table for indoor luminaire

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	1.00	1.00	1.00	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.84
1	0.94	0.93	0.91	0.93	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.80
2	0.89	0.87	0.84	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.80	0.81	0.79	0.78	0.77
3	0.85	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.78	0.76	0.75	0.74
4	0.81	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.77	0.75	0.73	0.76	0.74	0.72	0.71
5	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.73	0.71	0.69	0.68
6	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.71	0.69	0.67	0.66
7	0.72	0.68	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.67	0.65	0.64
8	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.67	0.64	0.63	0.62
9	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.65	0.63	0.61	0.60
10	0.65	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.58

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=1619.18,FM=161.56,FH=26.21,FVH=9.16
BL=1564.3,BM=155.8,BH=26.04,BVH=9.08
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	19210.60	19087.70	18713.15	18127.93	17332.02	15991.86	14704.36	11317.14	11317.14
45.0	18988.21	19187.19	19111.11	18783.38	18063.55	17232.54	16184.98	14903.34	13112.55
90.0	19169.63	18970.65	18561.00	17782.65	16910.66	15787.03	11541.87	11541.87	11170.83
135.0	19146.22	19093.55	18812.64	18321.05	17425.66	16454.19	15248.62	13873.34	12065.00
180.0	19210.60	19023.32	18613.67	17829.46	16969.18	15599.76	14259.59	12790.68	11304.21
225.0	18988.21	18561.00	17724.12	16811.17	15699.25	11299.00	11299.00	10922.70	9458.46
270.0	19169.63	19064.29	18719.01	18133.78	17097.93	16009.42	14716.07	13258.86	11380.29
315.0	19146.22	18894.57	18397.13	17700.72	16483.45	15254.47	11515.53	11515.53	10376.68
360.0	19210.60	19087.70	18713.15	18127.93	17332.02	15991.86	14704.36	11317.14	11317.14

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	9844.13	8471.78	7264.46	6050.11	5288.15	4675.42	4066.79	3668.83	3257.42
45.0	11643.64	10174.72	8799.44	7576.32	6318.09	5516.33	4872.58	4222.98	3807.47
90.0	9383.56	8075.58	6944.92	6022.02	5116.68	4549.60	4079.08	3685.81	3280.24
135.0	10619.49	8893.08	7658.25	6610.70	5574.85	4913.55	4369.29	3825.03	3462.19
180.0	9513.42	8167.40	7014.51	6066.44	5147.64	4556.56	4076.68	3684.58	3263.21
225.0	8114.79	6713.17	5834.75	5124.29	4540.82	3961.45	3583.98	3190.12	2920.92
270.0	9917.22	8530.24	7307.12	6066.44	5305.65	4539.01	4059.12	3667.02	3245.66
315.0	8935.86	7372.72	6363.21	5545.65	4880.25	4222.46	3801.68	3446.45	3139.79
360.0	9844.13	8471.78	7264.46	6050.11	5288.15	4675.42	4066.79	3668.83	3257.42

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2982.95	2740.08	2520.04	2312.87	2066.49	1902.62	1775.05	1659.76	1495.31
45.0	3380.26	3093.50	2964.75	2964.75	2356.76	2156.03	1977.53	1805.48	1689.02
90.0	3006.94	2765.25	2485.51	2274.24	2032.54	1880.97	1755.73	1635.76	1473.07
135.0	3157.87	2953.05	2953.05	2397.73	2196.99	2022.60	1849.37	1732.32	1608.26
180.0	2970.60	2970.60	2476.73	2257.27	2055.37	1868.10	1738.76	1600.06	1457.85
225.0	2682.14	2413.53	2213.96	2027.86	1840.59	1723.55	1607.67	1478.34	1157.81
270.0	2970.60	2970.60	2713.75	2277.17	2067.07	1913.74	1779.73	1638.69	1513.45
315.0	2816.16	2589.68	2382.51	2136.71	1957.64	1786.17	1672.05	1551.49	1166.00
360.0	2982.95	2740.08	2520.04	2312.87	2066.49	1902.62	1775.05	1659.76	1495.31

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1166.47	1166.47	1026.37	889.66	755.99	593.65	469.64	356.11	243.63
45.0	1558.51	1412.21	1230.20	1087.41	946.95	808.84	641.47	514.47	370.51
90.0	1145.99	1145.99	1037.37	856.07	714.38	580.60	457.94	329.83	255.04
135.0	1467.22	1282.29	1138.32	961.58	822.30	687.11	527.35	410.89	310.23
180.0	1321.50	1181.63	1038.25	854.49	722.23	598.74	478.77	341.24	316.08
225.0	1157.81	1013.84	868.88	693.37	561.06	438.68	308.24	231.40	180.60
270.0	1371.24	1234.88	1055.80	897.79	749.73	581.77	452.44	313.74	313.74
315.0	1166.00	1093.96	951.17	808.90	637.08	507.80	390.87	291.91	206.35
360.0	1166.47	1166.47	1026.37	889.66	755.99	593.65	469.64	356.11	243.63

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	190.78	167.26	147.18	133.02	120.15	108.33	95.33	86.32	78.54
45.0	298.52	298.52	177.79	159.94	143.91	129.28	113.24	101.83	92.06
90.0	210.15	182.36	164.74	148.94	131.32	118.86	107.62	95.45	87.08
135.0	310.23	189.03	170.48	154.32	139.93	123.72	112.19	101.77	90.42
180.0	316.08	168.08	152.74	135.83	123.19	111.13	98.03	89.01	81.17
225.0	162.17	147.18	130.91	118.39	106.57	96.21	87.08	77.19	70.46
270.0	225.49	167.78	148.00	134.84	121.90	109.79	96.15	86.85	78.77
315.0	172.88	154.97	136.65	123.83	111.43	97.56	87.96	77.72	70.75
360.0	190.78	167.26	147.18	133.02	120.15	108.33	95.33	86.32	78.54

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	71.87	64.61	59.69	54.66	51.15	47.87	44.54	42.31	40.32
45.0	83.57	74.50	68.30	63.03	57.47	53.49	50.04	46.47	44.07
90.0	79.59	71.46	66.01	61.27	57.06	52.38	49.33	46.70	44.42
135.0	82.69	75.85	68.35	63.20	58.76	53.90	50.68	47.87	44.89
180.0	74.27	68.24	62.03	57.76	54.02	49.86	46.99	44.42	41.67
225.0	64.78	59.81	54.72	51.21	47.34	44.65	42.37	39.91	38.27
270.0	70.11	64.32	59.34	54.19	50.62	46.88	44.18	41.96	39.97
315.0	64.84	59.81	54.60	51.03	47.93	45.30	42.49	40.44	38.80
360.0	71.87	64.61	59.69	54.66	51.15	47.87	44.54	42.31	40.32

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	38.62	36.81	35.70	34.65	33.83	32.89	32.42	31.95	31.43
45.0	42.14	40.03	38.57	37.28	36.05	35.17	34.47	33.94	33.42
90.0	41.96	40.32	38.45	37.28	36.23	35.23	34.47	33.83	33.24
135.0	42.90	41.08	39.50	38.16	36.64	35.64	34.82	34.00	33.30
180.0	39.80	38.16	36.40	35.17	34.18	33.24	32.66	32.13	31.49
225.0	36.81	35.29	34.29	33.42	32.77	32.36	31.89	31.37	30.84
270.0	37.86	36.46	35.29	34.24	33.24	32.66	32.19	31.84	31.31
315.0	37.40	35.82	34.76	33.71	33.01	32.54	31.95	31.66	31.25
360.0	38.62	36.81	35.70	34.65	33.83	32.89	32.42	31.95	31.43

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	30.84	30.08	28.91	27.97	26.51	25.40	24.52	24.46	24.87
45.0	32.89	32.25	31.54	30.37	29.26	27.97	26.51	25.52	24.46
90.0	32.19	31.31	30.26	28.91	27.45	26.28	25.22	24.23	23.47
135.0	32.42	31.54	30.55	29.26	27.86	26.69	25.57	24.40	23.64
180.0	30.72	29.90	28.85	27.86	26.34	25.28	24.17	23.53	23.17
225.0	29.90	28.91	27.92	26.51	25.46	24.58	24.35	24.35	24.40
270.0	30.78	29.96	28.97	27.86	26.57	25.63	25.40	25.63	25.63
315.0	30.61	29.61	28.62	27.39	26.34	25.05	24.17	23.47	22.65
360.0	30.84	30.08	28.91	27.97	26.51	25.40	24.52	24.46	24.87

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	24.46	23.82	23.35	22.82	22.06	21.48	20.72	19.96	19.31
45.0	23.76	23.23	22.94	22.59	22.30	21.89	21.36	20.72	20.13
90.0	22.71	22.18	21.71	21.24	20.66	20.13	19.66	19.14	18.61
135.0	23.00	22.36	21.83	21.24	20.78	20.19	19.72	19.25	18.73
180.0	22.71	22.36	21.95	21.54	21.19	20.72	20.31	19.78	19.08
225.0	24.11	23.76	23.41	23.12	22.41	21.77	21.07	20.25	19.08
270.0	25.57	25.40	25.11	24.46	23.82	23.17	22.24	21.36	20.54
315.0	22.06	21.59	21.01	20.54	20.07	19.49	19.08	18.61	18.26
360.0	24.46	23.82	23.35	22.82	22.06	21.48	20.72	19.96	19.31

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	18.55	17.91	17.21	16.80	16.44	16.09	15.74	15.51	15.51
45.0	19.49	18.73	18.02	17.38	16.85	16.50	16.09	15.74	15.51
90.0	18.20	17.67	17.21	16.80	16.50	16.09	15.80	15.51	15.27
135.0	18.32	17.79	17.38	16.97	16.56	16.21	15.86	15.57	15.57
180.0	18.49	17.79	17.03	16.62	16.27	15.86	15.57	15.51	15.16
225.0	18.20	17.26	16.85	16.56	15.98	15.63	15.51	15.22	15.45
270.0	19.37	18.14	17.15	16.85	16.50	15.98	15.68	15.51	15.16
315.0	17.79	17.44	17.09	16.68	16.39	15.80	15.57	15.51	15.22
360.0	18.55	17.91	17.21	16.80	16.44	16.09	15.74	15.51	15.51

Intensity data(cd)

C/γ(°)	90.0
0.0	15.22
45.0	15.33
90.0	15.27
135.0	15.16
180.0	15.33
225.0	15.27
270.0	15.45
315.0	15.39
360.0	15.22