NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86 750 3771111
Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

Client:
LumCAT: 2-2519-L
Luminaire: 92.70.412.00
Report No: 2024826-B022
Ballast type: AC

Test No: 2024826-C022	Voltage(V): 34.910
LampCAT: Fortimo_SLM_C_1210	Current(A): 0.715
Lamp flux(lm): 4003.0	Power (W): 24.940
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3611.24, Efficiency(%): 90.21% , Luminous Efficacy(lm/W): 144.80
Central intensity(cd): 12191.290, Maximum intensity(cd): 12191.290
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=26.2
[C90/270]Total=26.2
Field angle(10%Imax): [C0/180]Total=56.6
[C90/270]Total=56.6
Maximum s/h(1/2): C0_180=0.44 C90_270=0.44
Maximum s/h(1/4): C0_180=0.47 C90_270=0.47
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.21%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.042%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12191.294	0.000	0	0.00%	0.00%
1.0	12142.542	11.643	11.643	0.29%	0.32%
2.0	11950.636	34.581	46.224	0.86%	1.28%
3.0	11713.527	56.597	102.821	1.41%	2.85%
4.0	11309.867	77.067	179.888	1.93%	4.98%
5.0	10972.704	95.858	275.746	2.39%	7.64%
6.0	10551.909	113.118	388.864	2.83%	10.77%
7.0	9998.715	127.557	516.421	3.19%	14.30%
8.0	9387.656	138.745	655.166	3.47%	18.14%
9.0	8736.466	146.886	802.052	3.67%	22.21%
10.0	8066.406	152.060	954.112	3.80%	26.42%
11.0	7388.132	154.423	1108.534	3.86%	30.70%
12.0	6785.214	154.935	1263.469	3.87%	34.99%
13.0	6128.814	153.257	1416.726	3.83%	39.23%
14.0	5567.676	149.714	1566.44	3.74%	43.38%
15.0	5030.218	145.493	1711.933	3.63%	47.41%
16.0	4551.137	140.394	1852.326	3.51%	51.29%
17.0	4105.959	134.814	1987.141	3.37%	55.03%
18.0	3753.199	129.580	2116.721	3.24%	58.61%
19.0	3395.577	124.374	2241.095	3.11%	62.06%
20.0	3061.490	118.182	2359.277	2.95%	65.33%
21.0	2827.757	113.085	2472.363	2.83%	68.46%
22.0	2547.185	108.012	2580.375	2.70%	71.45%
23.0	2298.098	101.667	2682.042	2.54%	74.27%
24.0	2145.509	97.153	2779.195	2.43%	76.96%
25.0	1858.985	91.053	2870.248	2.27%	79.48%
26.0	1647.611	82.774	2953.022	2.07%	81.77%
27.0	1451.067	75.810	3028.832	1.89%	83.87%
28.0	1257.689	68.580	3097.412	1.71%	85.77%
29.0	1108.609	61.909	3159.321	1.55%	87.49%
30.0	967.341	56.050	3215.371	1.40%	89.04%
31.0	803.641	49.284	3264.655	1.23%	90.40%
32.0	675.573	42.378	3307.033	1.06%	91.58%
33.0	542.386	35.882	3342.914	0.90%	92.57%
34.0	426.591	29.324	3372.238	0.73%	93.38%
35.0	332.576	23.577	3395.815	0.59%	94.03%
36.0	283.351	19.611	3415.426	0.49%	94.58%
37.0	228.358	16.689	3432.115	0.42%	95.04%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	202.720	14.389	3446.504	0.36%	95.44%
39.0	167.320	12.630	3459.135	0.32%	95.79%
40.0	149.061	11.034	3470.169	0.28%	96.09%
41.0	133.542	10.063	3480.232	0.25%	96.37%
42.0	120.020	9.212	3489.445	0.23%	96.63%
43.0	107.714	8.436	3497.881	0.21%	96.86%
44.0	97.096	7.730	3505.611	0.19%	97.07%
45.0	87.484	7.094	3512.704	0.18%	97.27%
46.0	79.061	6.513	3519.217	0.16%	97.45%
47.0	71.787	6.000	3525.217	0.15%	97.62%
48.0	65.315	5.542	3530.759	0.14%	97.77%
49.0	59.777	5.137	3535.896	0.13%	97.91%
50.0	55.414	4.803	3540.699	0.12%	98.05%
51.0	51.156	4.509	3545.208	0.11%	98.17%
52.0	47.510	4.234	3549.442	0.11%	98.29%
53.0	44.336	3.995	3553.437	0.10%	98.40%
54.0	41.748	3.794	3557.231	0.09%	98.50%
55.0	39.323	3.619	3560.85	0.09%	98.60%
56.0	37.142	3.455	3564.306	0.09%	98.70%
57.0	35.381	3.316	3567.621	0.08%	98.79%
58.0	33.068	3.165	3570.787	0.08%	98.88%
59.0	31.248	3.007	3573.794	0.08%	98.96%
60.0	29.402	2.865	3576.659	0.07%	99.04%
61.0	27.556	2.718	3579.377	0.07%	99.12%
62.0	25.545	2.559	3581.936	0.06%	99.19%
63.0	23.817	2.401	3584.337	0.06%	99.25%
64.0	22.149	2.256	3586.592	0.06%	99.32%
65.0	20.480	2.110	3588.702	0.05%	99.38%
66.0	19.185	1.979	3590.681	0.05%	99.43%
67.0	17.838	1.862	3592.542	0.05%	99.48%
68.0	16.774	1.753	3594.296	0.04%	99.53%
69.0	15.775	1.661	3595.956	0.04%	99.58%
70.0	14.678	1.564	3597.52	0.04%	99.62%
71.0	13.364	1.449	3598.97	0.04%	99.66%
72.0	12.195	1.329	3600.299	0.03%	99.70%
73.0	10.986	1.212	3601.511	0.03%	99.73%
74.0	9.967	1.102	3602.612	0.03%	99.76%
75.0	9.106	1.008	3603.62	0.03%	99.79%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.233	0.920	3604.541	0.02%	99.81%
77.0	7.530	0.840	3605.381	0.02%	99.84%
78.0	6.919	0.773	3606.154	0.02%	99.86%
79.0	6.255	0.708	3606.862	0.02%	99.88%
80.0	5.690	0.644	3607.506	0.02%	99.90%
81.0	5.145	0.586	3608.092	0.01%	99.91%
82.0	4.658	0.532	3608.624	0.01%	99.93%
83.0	4.139	0.478	3609.102	0.01%	99.94%
84.0	3.719	0.428	3609.53	0.01%	99.95%
85.0	3.311	0.384	3609.914	0.01%	99.96%
86.0	2.904	0.340	3610.253	0.01%	99.97%
87.0	2.569	0.300	3610.553	0.01%	99.98%
88.0	2.194	0.261	3610.814	0.01%	99.99%
89.0	1.945	0.227	3611.041	0.01%	99.99%
90.0	1.761	0.203	3611.244	0.01%	100.00%

Zonal flux distribution table

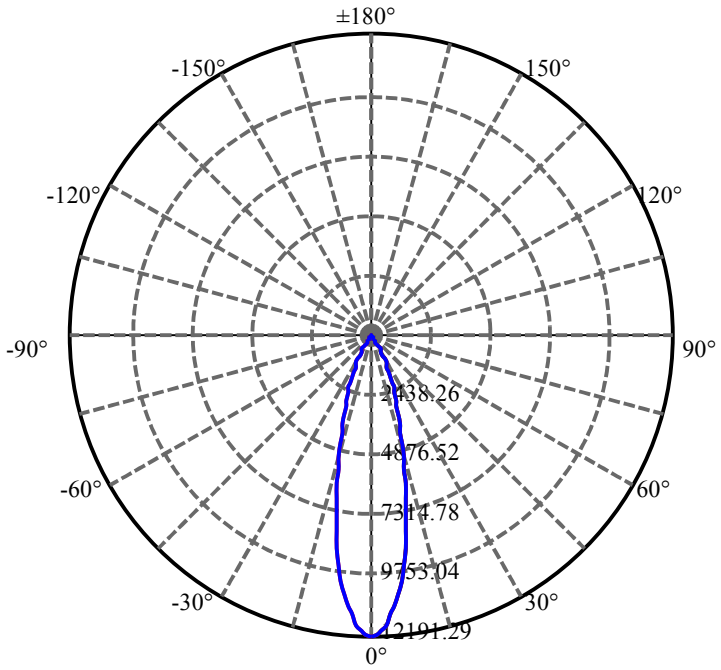
ZONAL LUMEN SUMMARY

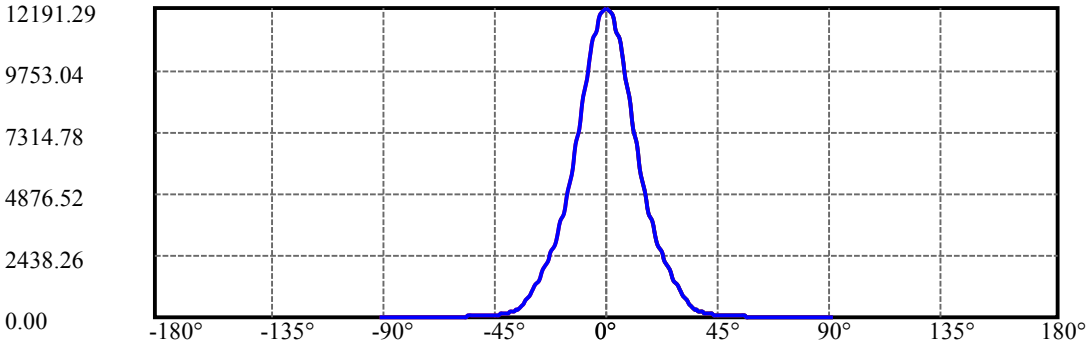
Zone	Lumens	%Lamp	%Fixt
0-30	3215.37	80.32%	89.04%
0-40	3470.17	86.69%	96.09%
0-60	3576.66	89.35%	99.04%
0-90	3611.04	90.21%	99.99%
0-120	3611.04	90.21%	99.99%
0-180	3611.24	90.21%	100.00%
60-90	34.38	0.86%	0.95%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.23	2889.00	72.17%	80.00%

ZONAL LUMEN SUMMARY

0-10	954.11
10-20	1405.17
20-30	856.09
30-40	254.80
40-50	70.53
50-60	35.96
60-70	20.86
70-80	9.99
80-90	3.53
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):

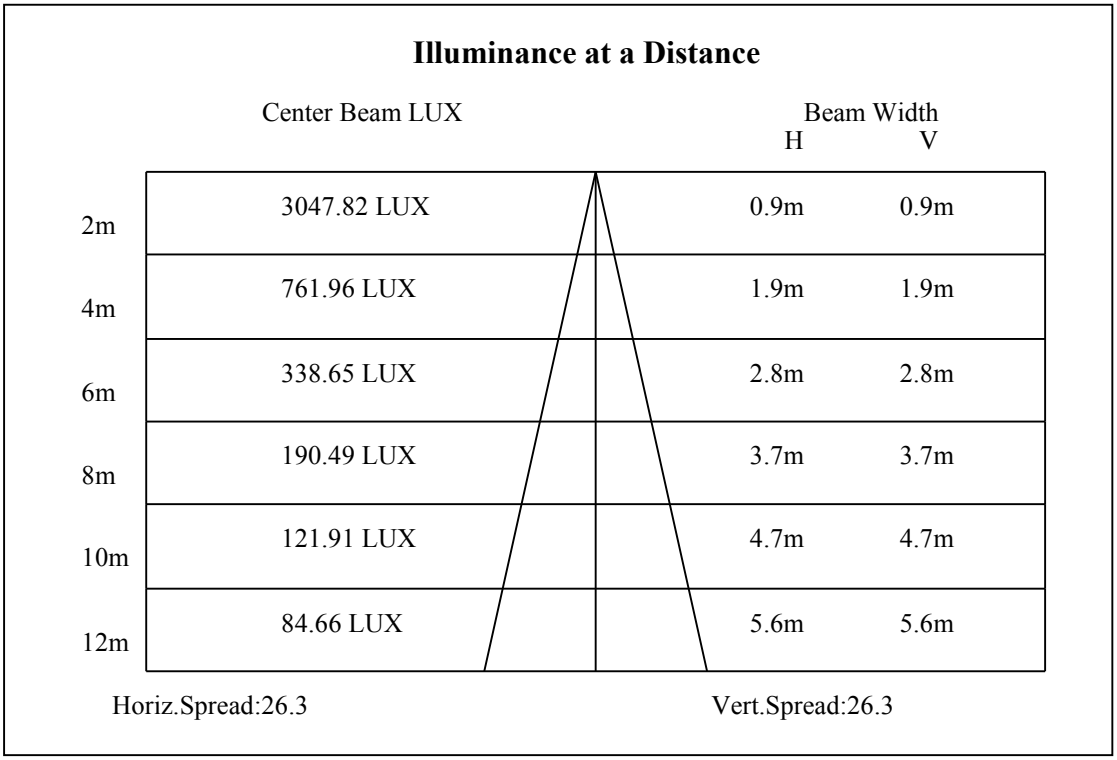
C0/C180:

C90/C270:

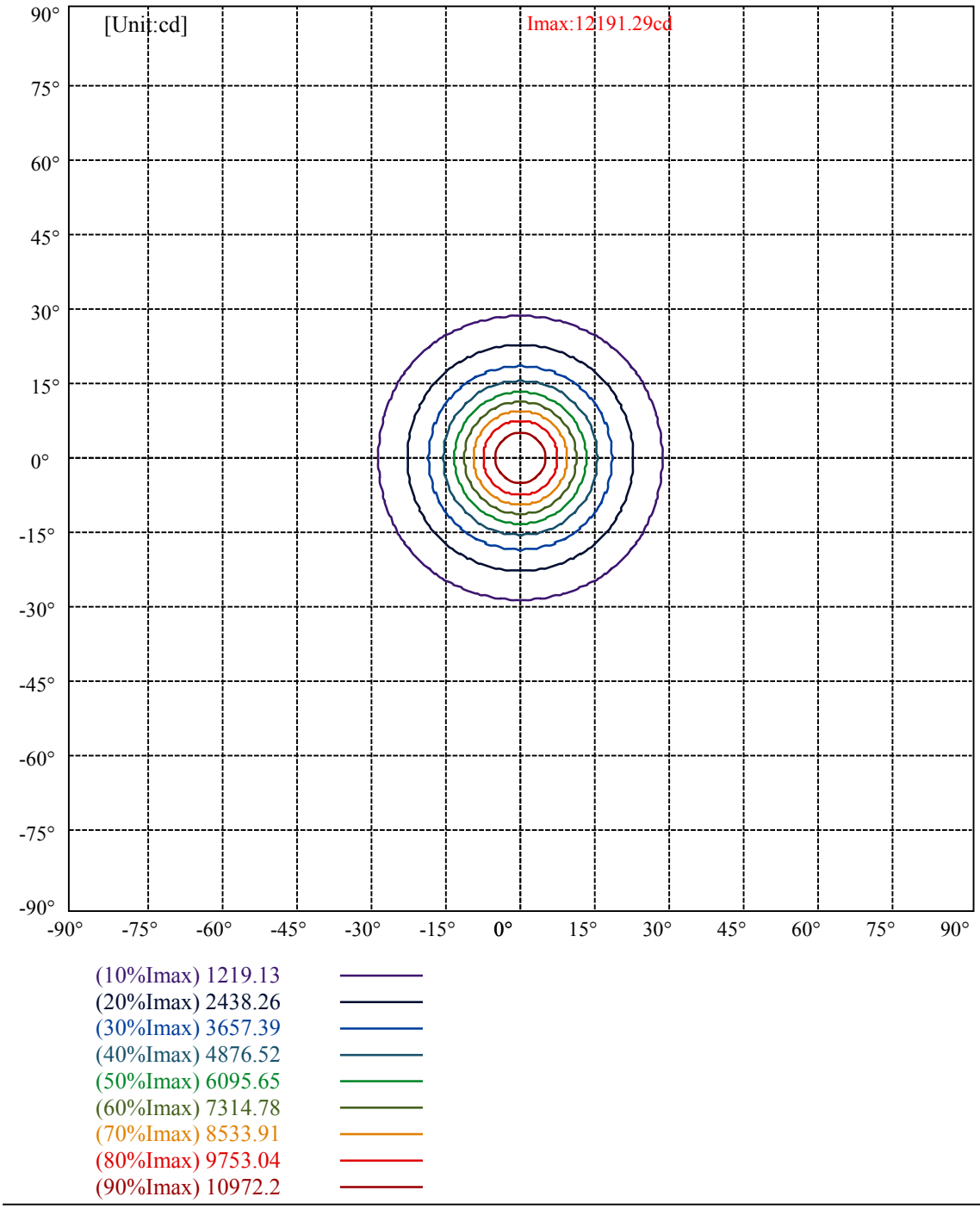
Field angle(10%Imax):C0/180Left:28.3 Right:28.3
:C90/270Left:28.3 Right:28.3

Beam Angle(50%Imax):C0/180Left:13.1 Right:13.1
:C90/270Left:13.1 Right:13.1

Lux distance Curve



ISO-Intensity(V-H)

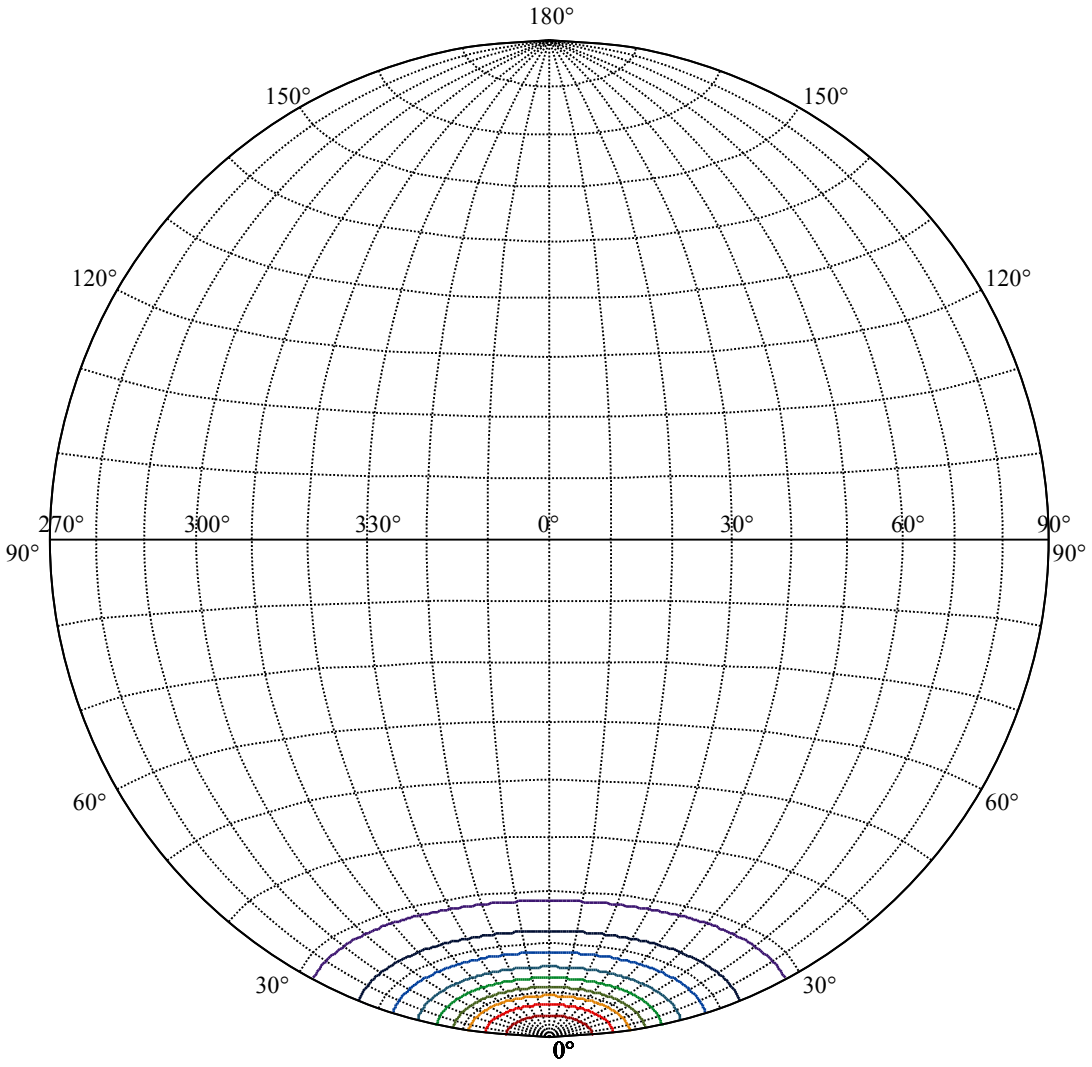


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/26
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web

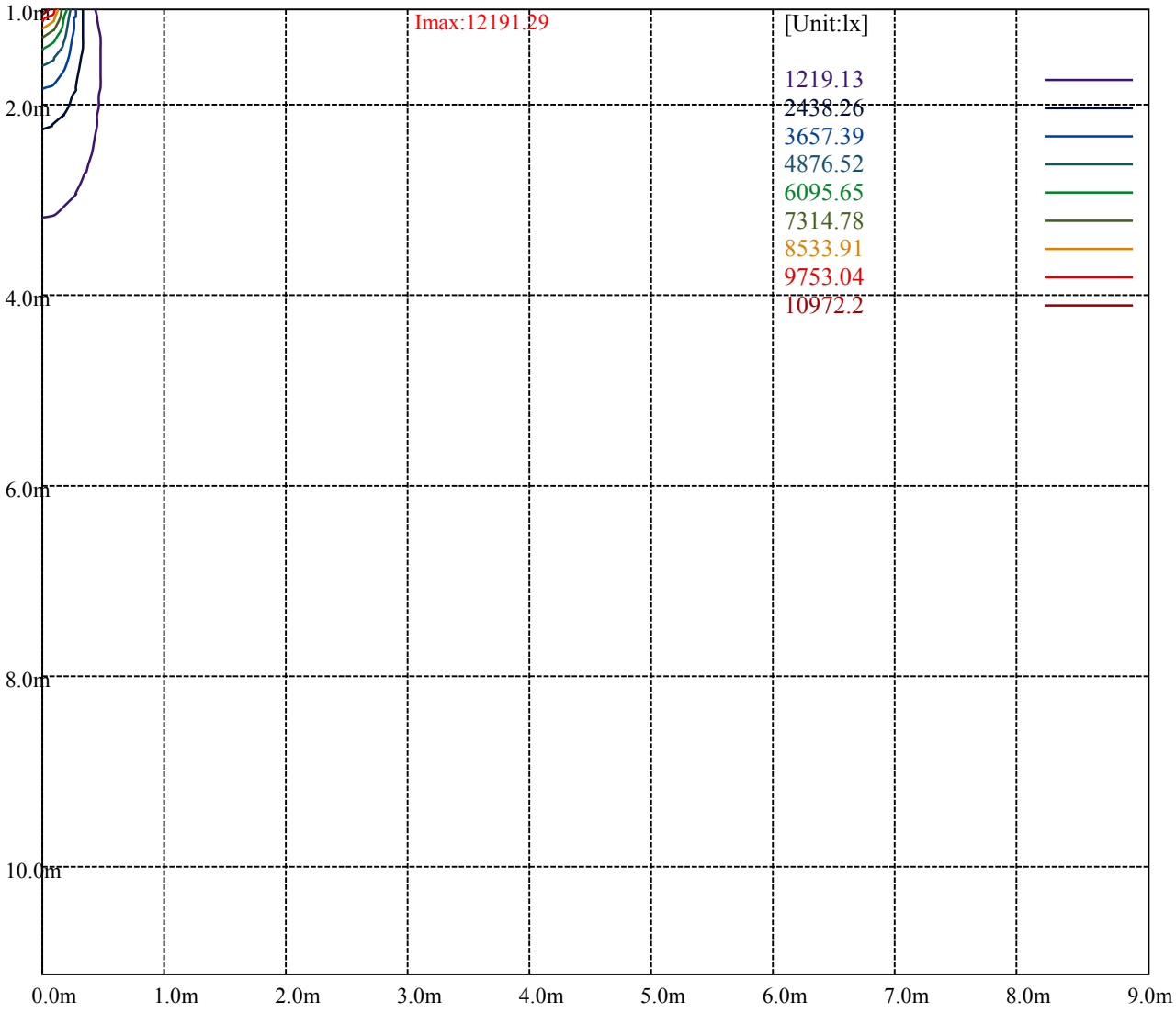


House [Unit:cd] Road

Imax:12191.29

(10%Imax) 1219.13
(20%Imax) 2438.26
(30%Imax) 3657.39
(40%Imax) 4876.52
(50%Imax) 6095.65
(60%Imax) 7314.78
(70%Imax) 8533.91
(80%Imax) 9753.04
(90%Imax) 10972.2

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/26
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2519-L

Luminance Limitting Curve(no luminous side)

Luminance Table

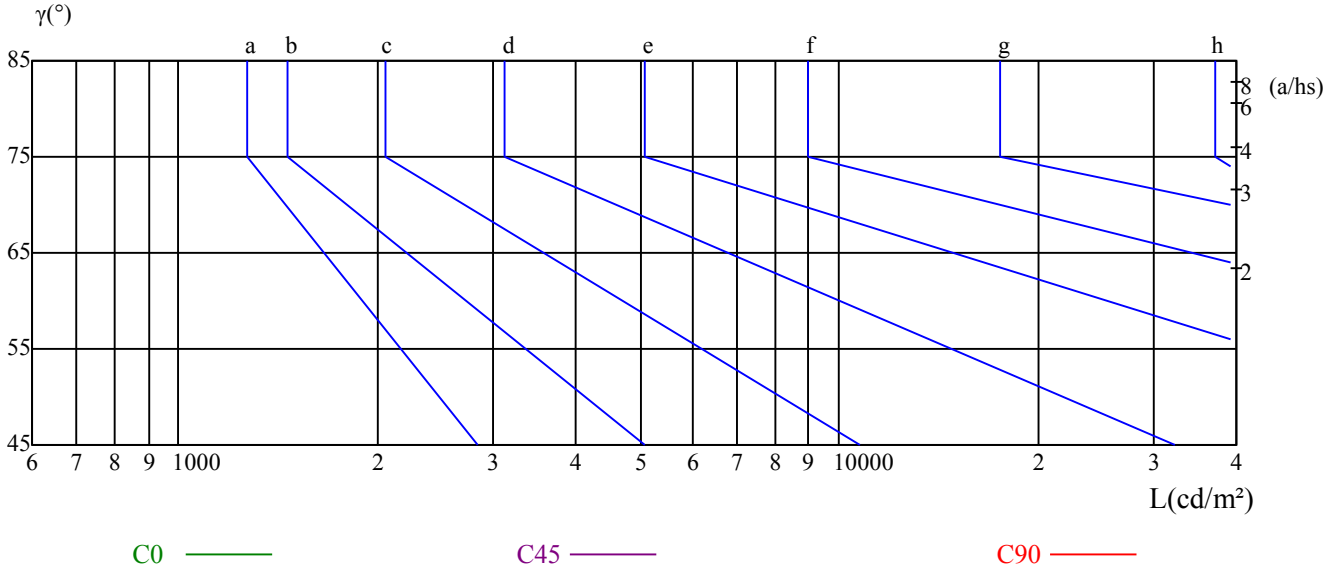
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

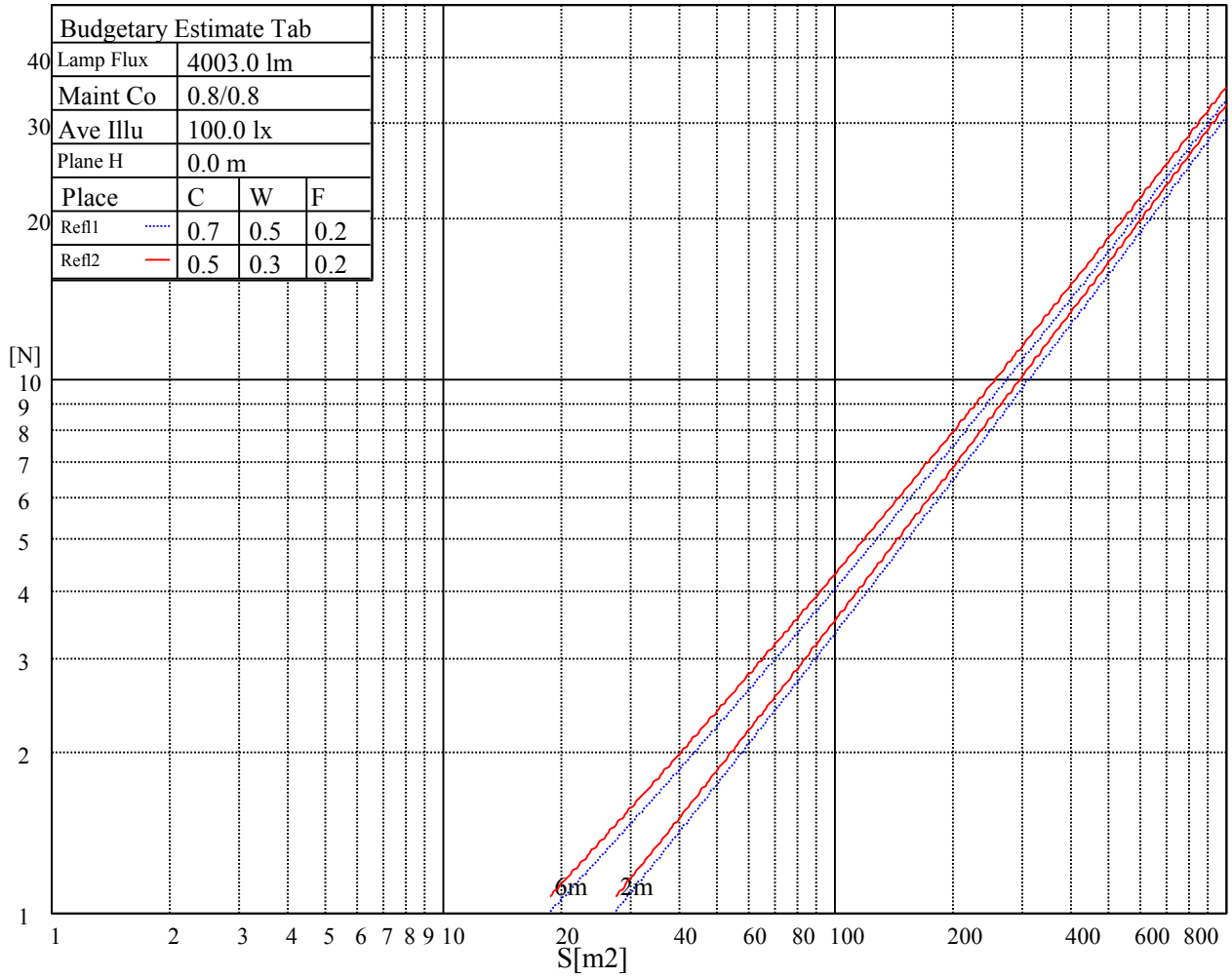
Luminance Limitting Curve



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: GMS 1800
Temperature(°C): 25.0

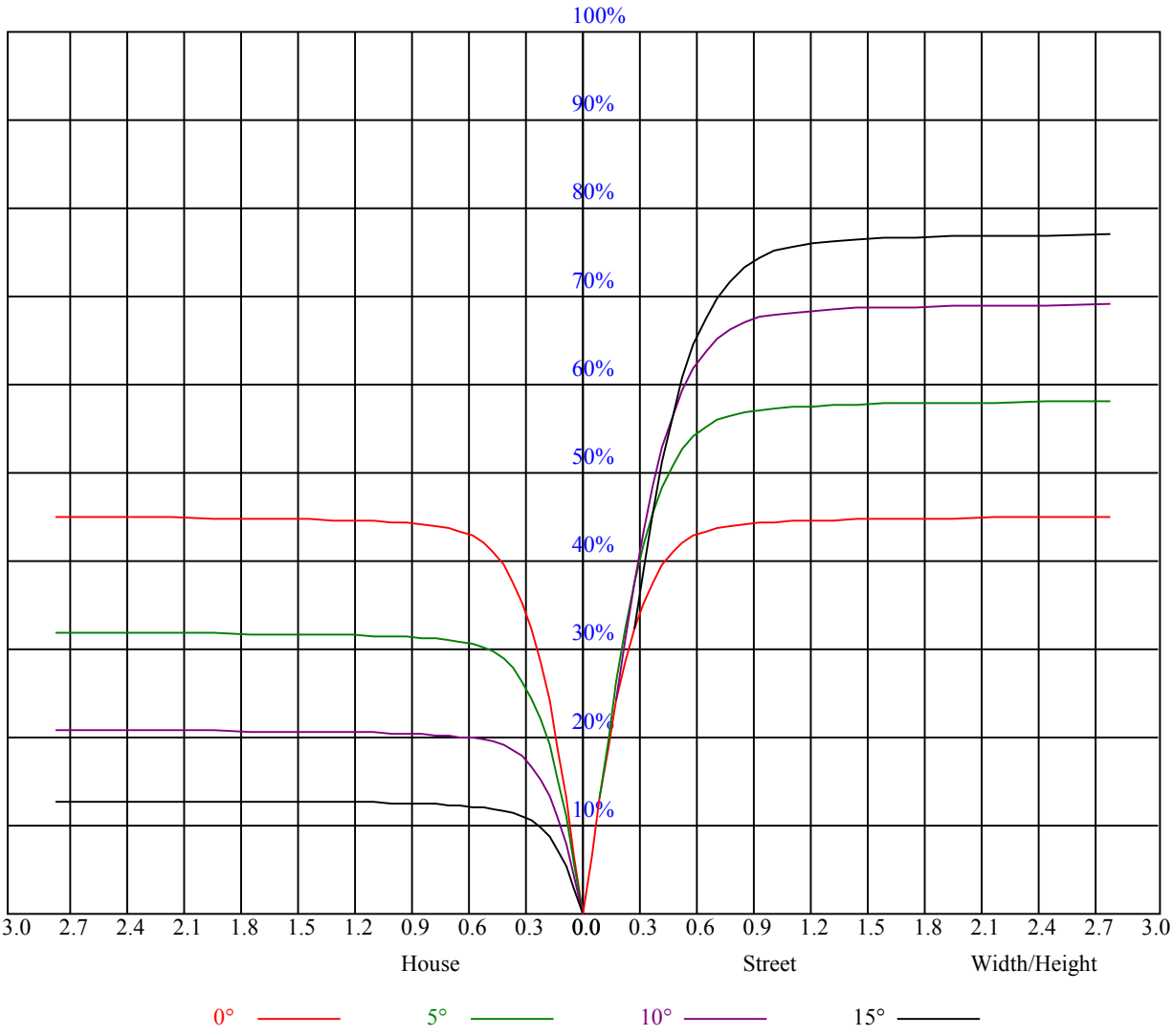
Date: 2024/8/26
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

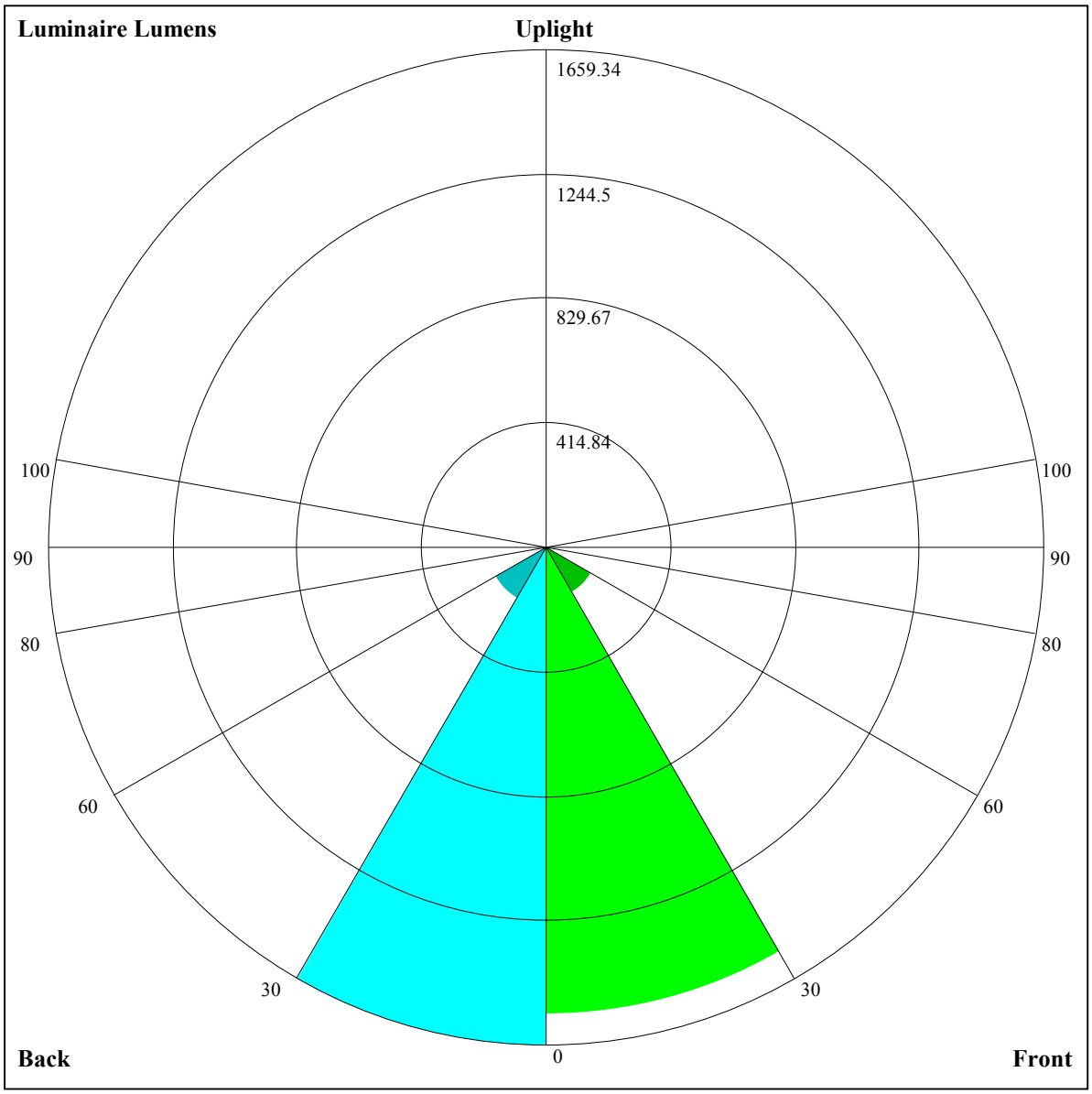
Utilization factor table for indoor luminaire

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	1.07	1.07	1.07	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	0.99	0.97	0.99	0.97	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.88	0.86
2	0.96	0.92	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.78
4	0.86	0.82	0.79	0.85	0.82	0.79	0.83	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.82	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.73	0.72
6	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
7	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66
8	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.62	0.61
10	0.68	0.64	0.61	0.67	0.63	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2024/8/26	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25



Luminaire Lumens:
FL=1554.59,FM=172.33,FH=15.44,FVH=1.82
BL=1659.34,BM=195.04,BH=15.3,BVH=1.91
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	12088.22	11893.21	11093.42	11093.42	10908.45	10396.39	9810.27	9200.70	8551.60
45.0	12249.80	12155.08	11948.93	11648.06	11274.76	10840.17	10294.16	9697.99	9040.54
90.0	12149.51	11948.93	11837.50	11027.09	10820.41	10268.24	9655.36	8992.34	8278.65
135.0	12277.65	12238.65	12110.51	11876.50	11547.77	11141.04	10634.02	10071.29	9447.27
180.0	12088.22	12194.08	12194.08	12088.22	11870.93	11547.77	11168.90	10689.74	10149.29
225.0	12249.80	12255.37	12138.36	11948.93	11056.63	10866.61	10866.61	10313.92	9733.94
270.0	12149.51	12255.37	12266.51	12155.08	11982.36	11703.78	11363.91	10957.18	10433.45
315.0	12277.65	12199.65	12015.79	11870.93	11017.63	11017.63	10622.04	10066.56	9466.51
360.0	12088.22	11893.21	11093.42	11093.42	10908.45	10396.39	9810.27	9200.70	8551.60

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7871.34	7193.81	6534.68	5908.45	5341.82	4808.63	4351.18	3933.88	3555.01
45.0	8349.66	7647.63	6956.75	6566.74	5937.14	5368.84	4861.82	4388.23	3964.79
90.0	7571.00	6882.90	6233.28	5873.33	5130.10	4838.69	4370.68	3786.23	3567.78
135.0	8761.96	8065.51	7374.62	6706.03	6070.86	5491.41	4967.68	4494.09	4076.22
180.0	9541.99	8895.68	8215.94	7519.49	6862.03	6232.44	5636.28	5324.27	4633.38
225.0	9109.92	8440.75	7747.66	7053.41	6390.97	5770.26	5204.74	4684.37	4221.35
270.0	9854.00	9246.69	8583.67	7887.21	7174.05	6505.45	5870.29	5301.98	4778.25
315.0	8831.87	8158.28	7458.46	6767.05	6123.53	5525.69	4979.09	4496.04	4050.89
360.0	7871.34	7193.81	6534.68	5908.45	5341.82	4808.63	4351.18	3933.88	3555.01

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3221.24	2914.80	2619.50	2455.14	2205.52	1918.58	1808.31	1617.72	1432.75
45.0	3585.92	3229.33	2911.75	2911.75	2315.85	2075.75	1889.10	1706.86	1520.21
90.0	3224.60	2908.13	2631.23	2367.68	2146.49	1950.91	1765.36	1568.73	1292.35
135.0	3686.21	3480.06	3151.33	2850.46	2850.46	2268.49	2053.98	1871.23	1687.94
180.0	4371.52	3981.50	3446.63	3246.05	2945.18	2833.75	2772.46	2155.96	1962.05
225.0	3818.51	3451.94	3111.49	2803.95	2524.79	2261.24	2025.02	1898.56	1642.26
270.0	4310.23	3892.36	3513.49	3179.19	2867.18	2811.46	2811.46	2205.52	1983.81
315.0	3807.36	3306.50	3106.50	2807.84	2522.00	2264.60	2038.37	1847.31	1659.50
360.0	3221.24	2914.80	2619.50	2455.14	2205.52	1918.58	1808.31	1617.72	1432.75

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1050.83	1050.83	890.67	739.76	600.05	470.75	356.53	268.33	218.08
45.0	1407.68	1163.10	1062.24	905.13	703.44	620.97	492.25	378.03	319.53
90.0	1069.70	1003.26	844.00	690.04	548.38	472.17	361.84	277.37	222.92
135.0	1499.61	1313.54	1129.67	961.95	800.95	653.30	514.53	439.32	297.82
180.0	1783.76	1594.90	1403.21	1215.46	1042.73	885.63	766.94	595.32	463.29
225.0	1533.62	1271.17	1053.77	1020.40	861.55	717.85	585.02	458.08	352.90
270.0	1792.70	1613.83	1434.43	1256.14	1081.21	914.59	757.48	610.93	478.32
315.0	1470.65	1050.88	1050.88	949.86	790.80	669.33	504.49	385.34	307.75
360.0	1050.83	1050.83	890.67	739.76	600.05	470.75	356.53	268.33	218.08

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	202.26	173.98	156.48	146.65	126.41	118.48	106.70	96.40	87.20
45.0	319.53	198.58	177.29	158.53	142.02	127.88	114.85	103.29	95.03
90.0	193.96	172.30	153.48	137.50	123.15	110.70	99.87	90.14	81.68
135.0	297.82	281.68	185.23	166.10	149.44	134.72	121.58	109.86	99.29
180.0	370.25	277.21	277.21	194.48	173.09	154.95	138.55	123.63	110.49
225.0	276.74	222.55	193.48	171.88	155.43	135.19	123.52	110.33	99.24
270.0	368.57	300.03	300.03	204.47	181.13	159.90	142.23	127.10	113.59
315.0	237.69	200.53	178.55	158.95	141.81	126.52	112.85	100.97	90.25
360.0	202.26	173.98	156.48	146.65	126.41	118.48	106.70	96.40	87.20

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	78.90	71.91	65.97	60.60	55.87	52.04	48.83	45.62	43.10
45.0	85.99	77.53	70.80	64.86	59.66	54.88	51.04	47.46	44.47
90.0	74.27	67.86	62.29	57.40	53.19	51.04	46.62	43.84	42.31
135.0	90.09	81.89	74.59	68.23	62.76	57.92	54.51	50.93	46.83
180.0	98.82	88.83	80.11	72.27	65.55	61.92	56.61	52.04	48.25
225.0	89.09	80.26	72.33	65.49	59.40	54.19	49.51	45.78	42.16
270.0	101.66	91.09	82.00	73.69	66.81	60.66	55.40	50.72	46.83
315.0	81.05	73.11	66.23	59.97	54.98	50.67	46.73	43.68	40.74
360.0	78.90	71.91	65.97	60.60	55.87	52.04	48.83	45.62	43.10

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	41.16	38.90	37.06	36.16	33.11	31.06	30.07	28.23	26.18
45.0	42.05	39.95	37.74	35.53	33.59	31.22	29.17	27.12	25.23
90.0	40.21	38.00	35.95	33.85	31.75	29.44	27.28	25.34	23.50
135.0	44.47	42.10	39.79	37.37	35.37	33.32	30.96	28.75	26.81
180.0	45.05	42.10	39.79	37.74	35.53	33.75	32.01	29.96	27.81
225.0	39.21	36.69	34.38	32.33	30.33	28.44	26.49	25.39	22.76
270.0	43.52	40.42	37.95	36.64	33.75	32.59	30.80	28.91	27.12
315.0	38.32	36.43	34.48	33.43	31.12	30.17	28.44	26.75	24.97
360.0	41.16	38.90	37.06	36.16	33.11	31.06	30.07	28.23	26.18

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	24.44	23.13	21.81	20.66	19.82	19.66	19.55	17.82	14.35
45.0	23.44	21.87	20.39	19.55	18.03	17.40	16.77	15.77	15.35
90.0	21.81	20.13	18.66	17.35	16.03	14.77	13.51	12.46	11.41
135.0	24.70	22.92	21.18	19.61	18.03	16.66	15.35	14.61	13.04
180.0	26.02	24.18	22.13	20.39	18.92	17.35	15.93	14.77	13.61
225.0	21.66	19.97	17.98	17.14	15.93	14.82	13.77	12.72	11.83
270.0	25.18	23.39	21.66	20.13	18.66	17.29	16.08	14.98	13.93
315.0	23.29	21.60	20.03	18.66	17.29	16.24	15.24	14.30	13.40
360.0	24.44	23.13	21.81	20.66	19.82	19.66	19.55	17.82	14.35

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.19	10.62	9.36	8.25	7.41	6.83	6.20	5.62	4.99
45.0	13.88	11.62	10.20	8.99	8.09	7.46	6.78	6.10	5.52
90.0	10.41	9.46	8.73	7.83	6.99	6.36	5.78	5.20	4.63
135.0	11.98	11.41	10.14	9.51	8.73	7.88	7.31	6.62	6.04
180.0	12.83	11.62	10.99	10.14	9.30	8.52	7.78	7.10	6.52
225.0	11.04	10.14	9.30	8.62	7.94	7.31	6.68	6.10	5.62
270.0	12.88	11.83	10.88	9.93	9.04	8.30	7.57	6.89	6.20
315.0	12.35	11.20	10.14	9.57	8.36	7.57	7.25	6.41	5.99
360.0	12.19	10.62	9.36	8.25	7.41	6.83	6.20	5.62	4.99

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.57	4.21	3.68	3.36	3.05	2.68	2.31	2.00	1.89
45.0	4.94	4.47	3.78	3.31	3.00	2.63	2.21	1.84	1.68
90.0	4.15	3.73	3.31	3.00	2.68	2.37	2.05	1.73	1.79
135.0	5.47	4.94	4.31	3.94	3.42	3.05	2.73	2.31	1.73
180.0	5.89	5.26	4.84	4.26	3.73	3.26	2.89	2.52	2.21
225.0	5.05	4.63	4.10	3.68	3.21	2.84	2.52	2.21	1.94
270.0	5.78	5.15	4.52	4.15	3.68	3.21	2.89	2.47	2.16
315.0	5.31	4.89	4.57	4.05	3.73	3.21	2.94	2.47	2.16
360.0	4.57	4.21	3.68	3.36	3.05	2.68	2.31	2.00	1.89

Intensity data(cd)

C/γ(°)	90.0
0.0	1.84
45.0	1.52
90.0	1.79
135.0	1.47
180.0	1.89
225.0	1.73
270.0	1.89
315.0	1.94
360.0	1.84