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Nata

Client:
LumCAT: 2-2519-L
Luminaire: 92.70.412.00
Report No: 2024826-B023
Ballast type: AC

Test No: 2024826-C023	Voltage(V): 34.950
LampCAT: Fortimo_SLM_C_1210	Current(A): 0.715
Lamp flux(lm): 4003.0	Power (W): 24.980
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3613.23, Efficiency(%): 90.26% , Luminous Efficacy(lm/W): 144.65
Central intensity(cd): 12408.590, Maximum intensity(cd): 12408.590
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.8
[C90/270]Total=25.8
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=0.47 C90_270=0.47
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.26%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.054%

Nata 2-2519-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12408.587	0.000	0	0.00%	0.00%
1.0	12354.960	11.849	11.849	0.30%	0.33%
2.0	12211.491	35.260	47.109	0.88%	1.30%
3.0	11811.865	57.456	104.565	1.44%	2.89%
4.0	11382.915	77.640	182.205	1.94%	5.04%
5.0	11121.325	96.812	279.017	2.42%	7.72%
6.0	10647.881	114.403	393.42	2.86%	10.89%
7.0	10069.273	128.591	522.011	3.21%	14.45%
8.0	9419.062	139.474	661.486	3.48%	18.31%
9.0	8791.702	147.588	809.074	3.69%	22.39%
10.0	8060.275	152.504	961.578	3.81%	26.61%
11.0	7427.482	154.755	1116.333	3.87%	30.90%
12.0	6742.376	154.897	1271.23	3.87%	35.18%
13.0	6154.359	153.052	1424.281	3.82%	39.42%
14.0	5535.081	149.624	1573.905	3.74%	43.56%
15.0	5030.152	145.044	1718.949	3.62%	47.57%
16.0	4546.886	140.330	1859.28	3.51%	51.46%
17.0	4117.240	134.924	1994.203	3.37%	55.19%
18.0	3749.027	129.698	2123.901	3.24%	58.78%
19.0	3392.863	124.254	2248.155	3.10%	62.22%
20.0	3067.337	118.240	2366.395	2.95%	65.49%
21.0	2781.857	112.316	2478.711	2.81%	68.60%
22.0	2592.494	108.000	2586.711	2.70%	71.59%
23.0	2302.211	102.704	2689.415	2.57%	74.43%
24.0	2120.082	96.687	2786.103	2.42%	77.11%
25.0	1844.642	90.149	2876.252	2.25%	79.60%
26.0	1667.453	82.903	2959.155	2.07%	81.90%
27.0	1429.956	75.779	3034.934	1.89%	84.00%
28.0	1235.646	67.487	3102.421	1.69%	85.86%
29.0	1115.396	61.510	3163.931	1.54%	87.57%
30.0	975.639	56.458	3220.389	1.41%	89.13%
31.0	831.769	50.298	3270.686	1.26%	90.52%
32.0	702.511	43.955	3314.642	1.10%	91.74%
33.0	587.215	37.996	3352.637	0.95%	92.79%
34.0	479.830	32.292	3384.929	0.81%	93.68%
35.0	391.959	27.075	3412.004	0.68%	94.43%
36.0	319.593	22.656	3434.66	0.57%	95.06%
37.0	268.923	19.194	3453.854	0.48%	95.59%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	214.540	16.137	3469.991	0.40%	96.04%
39.0	180.736	13.492	3483.483	0.34%	96.41%
40.0	135.605	11.033	3494.516	0.28%	96.71%
41.0	112.569	8.837	3503.353	0.22%	96.96%
42.0	95.072	7.544	3510.897	0.19%	97.17%
43.0	81.932	6.557	3517.454	0.16%	97.35%
44.0	72.530	5.830	3523.284	0.15%	97.51%
45.0	65.092	5.289	3528.573	0.13%	97.66%
46.0	58.909	4.849	3533.422	0.12%	97.79%
47.0	54.435	4.508	3537.93	0.11%	97.92%
48.0	49.488	4.201	3542.131	0.10%	98.03%
49.0	45.729	3.910	3546.041	0.10%	98.14%
50.0	42.615	3.683	3549.725	0.09%	98.24%
51.0	39.507	3.474	3553.199	0.09%	98.34%
52.0	37.392	3.300	3556.499	0.08%	98.43%
53.0	35.368	3.165	3559.664	0.08%	98.52%
54.0	33.673	3.043	3562.707	0.08%	98.60%
55.0	32.214	2.941	3565.648	0.07%	98.68%
56.0	30.834	2.849	3568.497	0.07%	98.76%
57.0	29.612	2.764	3571.261	0.07%	98.84%
58.0	28.403	2.683	3573.944	0.07%	98.91%
59.0	27.149	2.597	3576.541	0.06%	98.98%
60.0	25.913	2.507	3579.048	0.06%	99.05%
61.0	24.494	2.406	3581.453	0.06%	99.12%
62.0	23.265	2.301	3583.755	0.06%	99.18%
63.0	22.089	2.206	3585.961	0.06%	99.25%
64.0	20.880	2.109	3588.069	0.05%	99.30%
65.0	19.921	2.019	3590.088	0.05%	99.36%
66.0	19.054	1.945	3592.033	0.05%	99.41%
67.0	18.364	1.881	3593.914	0.05%	99.47%
68.0	17.812	1.833	3595.747	0.05%	99.52%
69.0	17.188	1.786	3597.532	0.04%	99.57%
70.0	16.445	1.727	3599.26	0.04%	99.61%
71.0	14.783	1.614	3600.874	0.04%	99.66%
72.0	13.180	1.454	3602.328	0.04%	99.70%
73.0	11.531	1.292	3603.62	0.03%	99.73%
74.0	10.118	1.138	3604.758	0.03%	99.77%
75.0	8.844	1.002	3605.76	0.03%	99.79%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.838	0.886	3606.646	0.02%	99.82%
77.0	7.142	0.799	3607.444	0.02%	99.84%
78.0	6.524	0.732	3608.176	0.02%	99.86%
79.0	5.979	0.672	3608.848	0.02%	99.88%
80.0	5.467	0.617	3609.465	0.02%	99.90%
81.0	5.013	0.567	3610.032	0.01%	99.91%
82.0	4.520	0.517	3610.549	0.01%	99.93%
83.0	4.067	0.467	3611.015	0.01%	99.94%
84.0	3.686	0.422	3611.438	0.01%	99.95%
85.0	3.338	0.383	3611.821	0.01%	99.96%
86.0	2.996	0.346	3612.167	0.01%	99.97%
87.0	2.707	0.312	3612.479	0.01%	99.98%
88.0	2.411	0.280	3612.76	0.01%	99.99%
89.0	2.135	0.249	3613.009	0.01%	99.99%
90.0	1.919	0.222	3613.231	0.01%	100.00%

Zonal flux distribution table

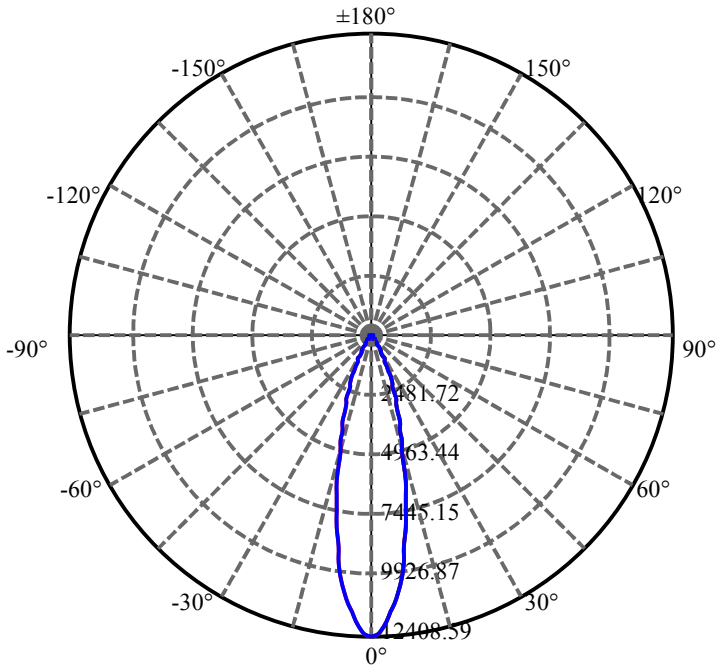
ZONAL LUMEN SUMMARY

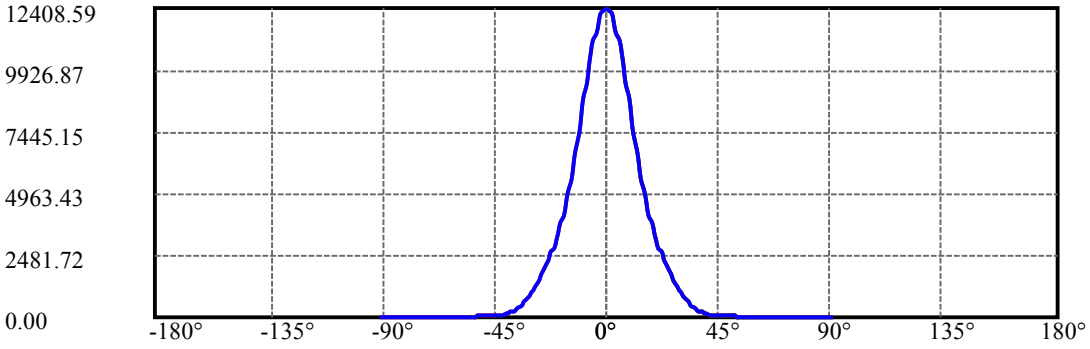
Zone	Lumens	%Lamp	%Fixt
0-30	3220.39	80.45%	89.13%
0-40	3494.52	87.30%	96.71%
0-60	3579.05	89.41%	99.05%
0-90	3613.01	90.26%	99.99%
0-120	3613.01	90.26%	99.99%
0-180	3613.23	90.26%	100.00%
60-90	33.96	0.85%	0.94%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.17	2890.59	72.21%	80.00%

ZONAL LUMEN SUMMARY

0-10	961.58
10-20	1404.82
20-30	853.99
30-40	274.13
40-50	55.21
50-60	29.32
60-70	20.21
70-80	10.20
80-90	3.54
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):

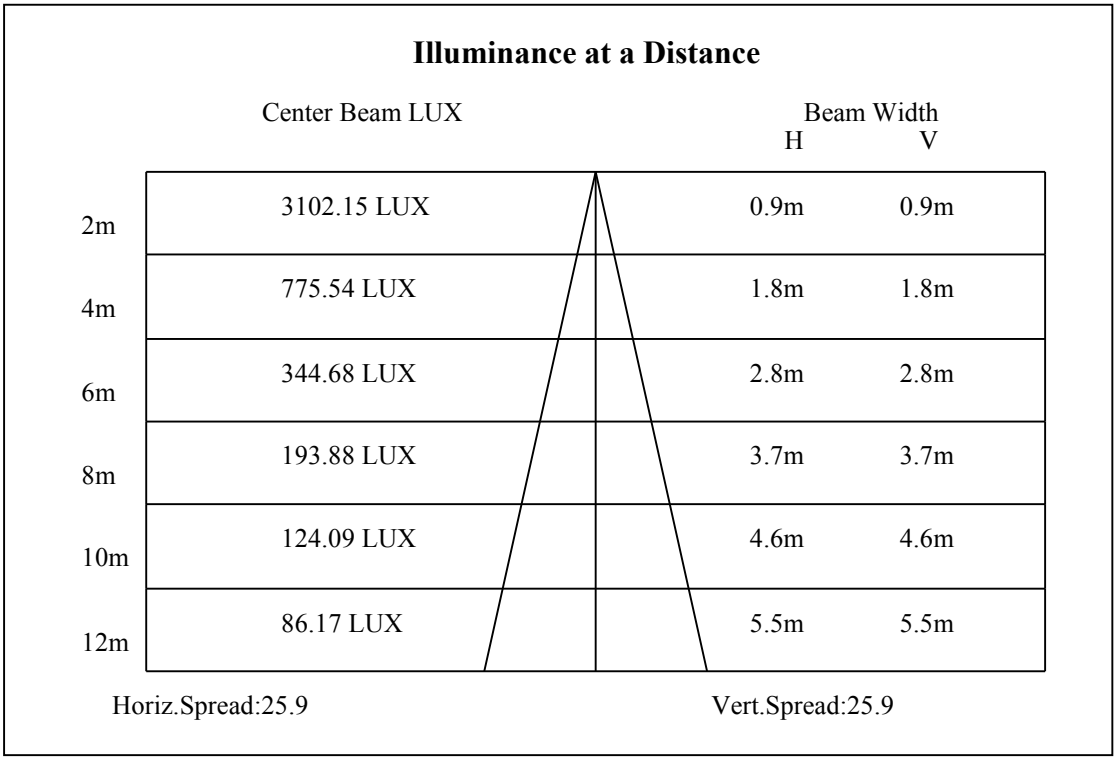
C0/C180:

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:12.9 Right:12.9
:C90/270Left:12.9 Right:12.9

Lux distance Curve

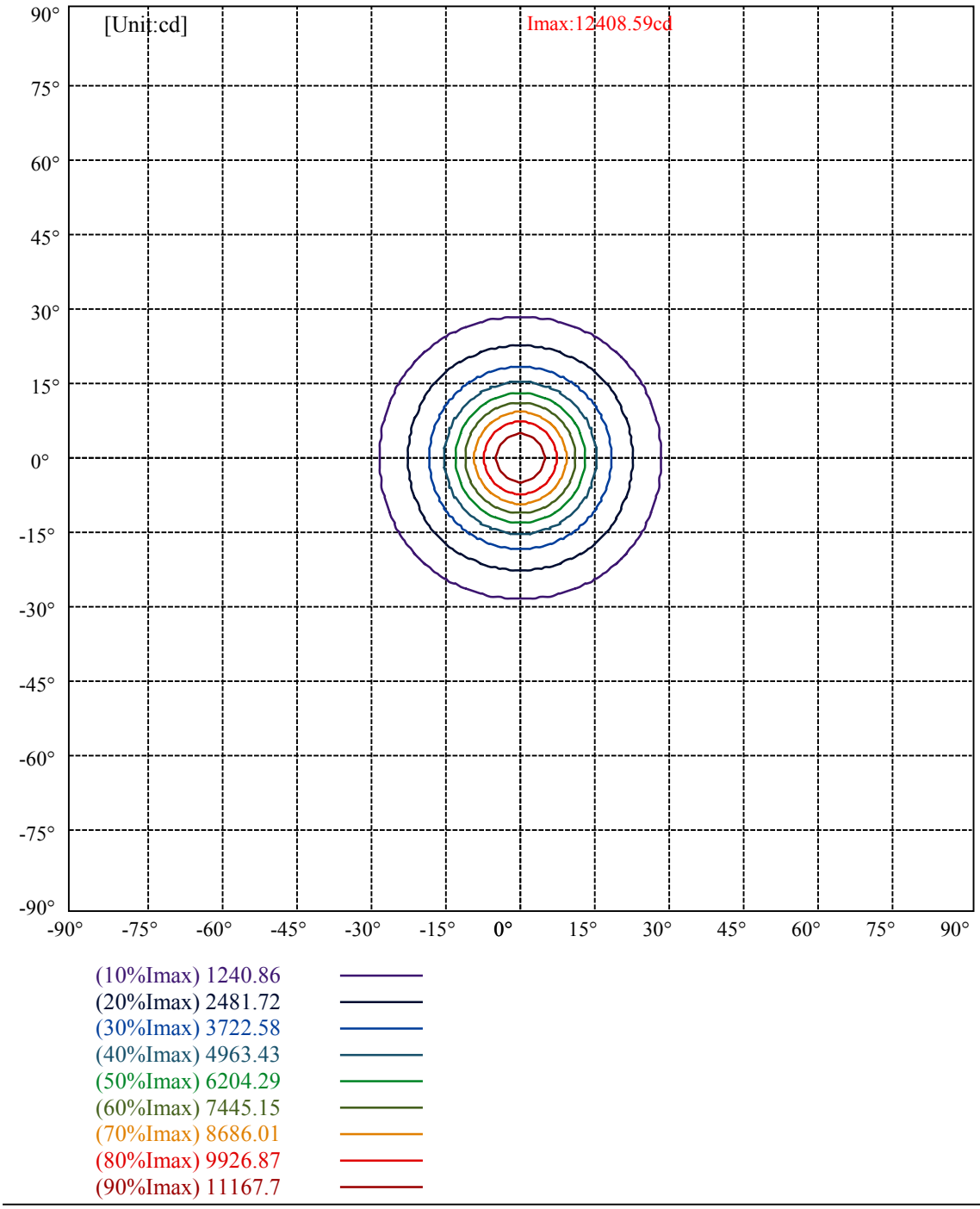


Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)



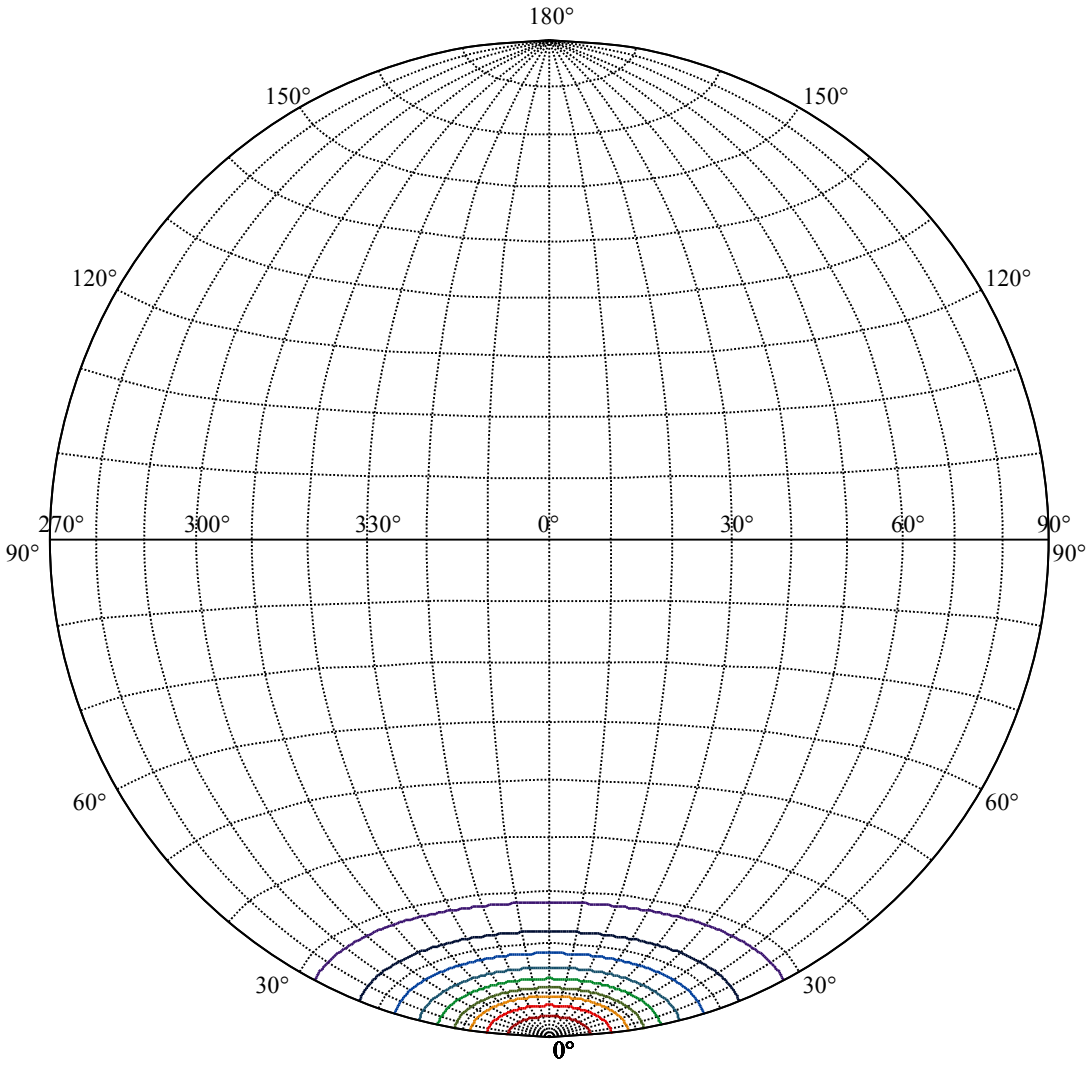
(10%Imax) 1240.86
(20%Imax) 2481.72
(30%Imax) 3722.58
(40%Imax) 4963.43
(50%Imax) 6204.29
(60%Imax) 7445.15
(70%Imax) 8686.01
(80%Imax) 9926.87
(90%Imax) 11167.7

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:12408.59

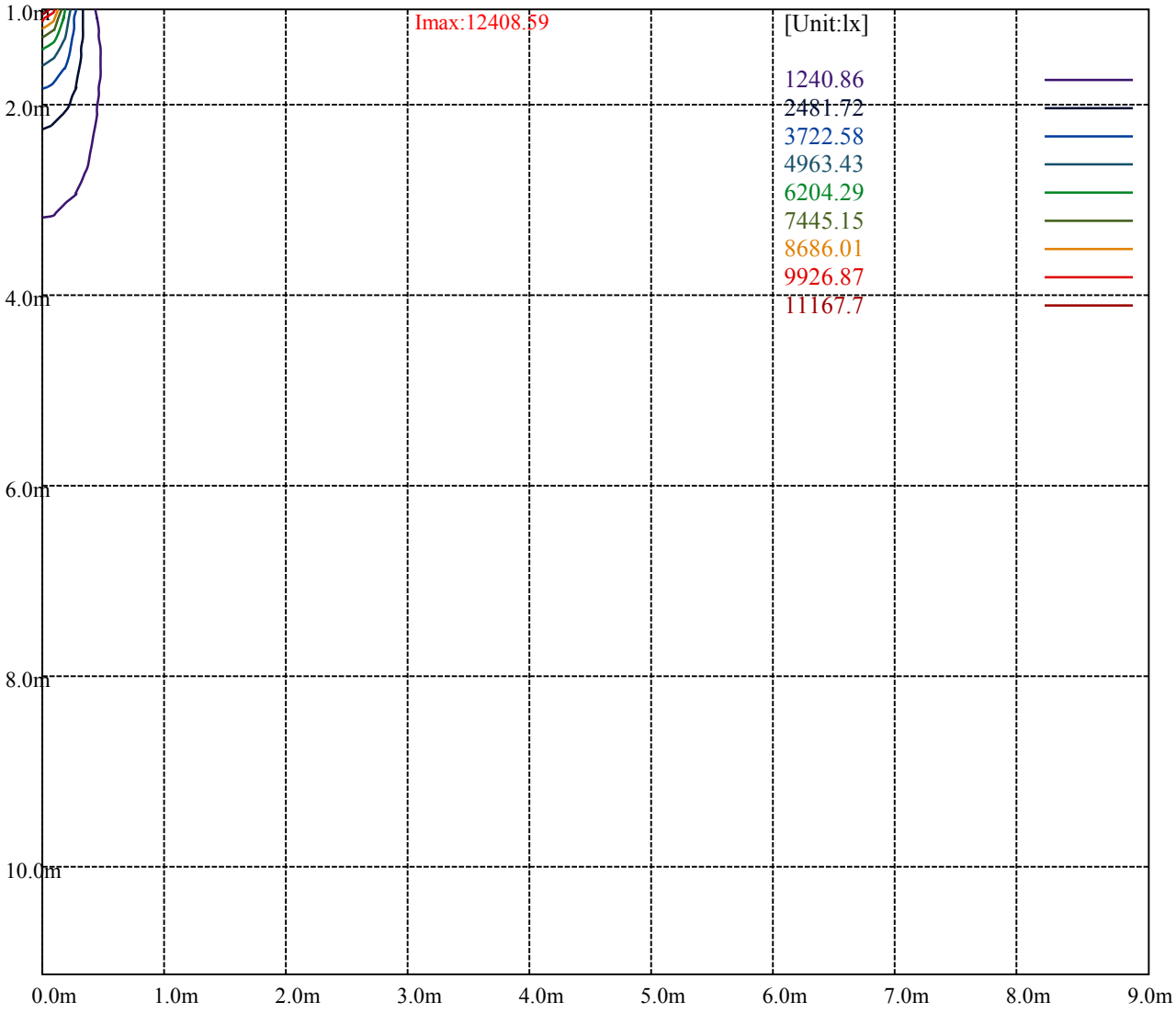
(10%Imax) 1240.86
(20%Imax) 2481.72
(30%Imax) 3722.58
(40%Imax) 4963.43
(50%Imax) 6204.29
(60%Imax) 7445.15
(70%Imax) 8686.01
(80%Imax) 9926.87
(90%Imax) 11167.7

Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25

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

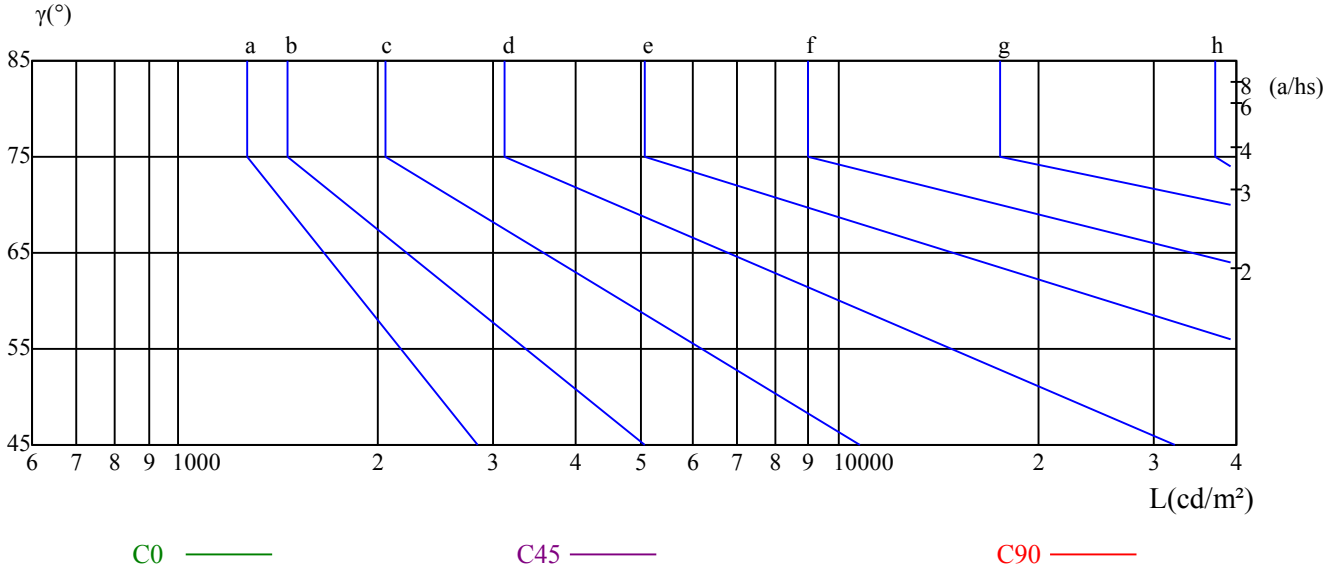
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

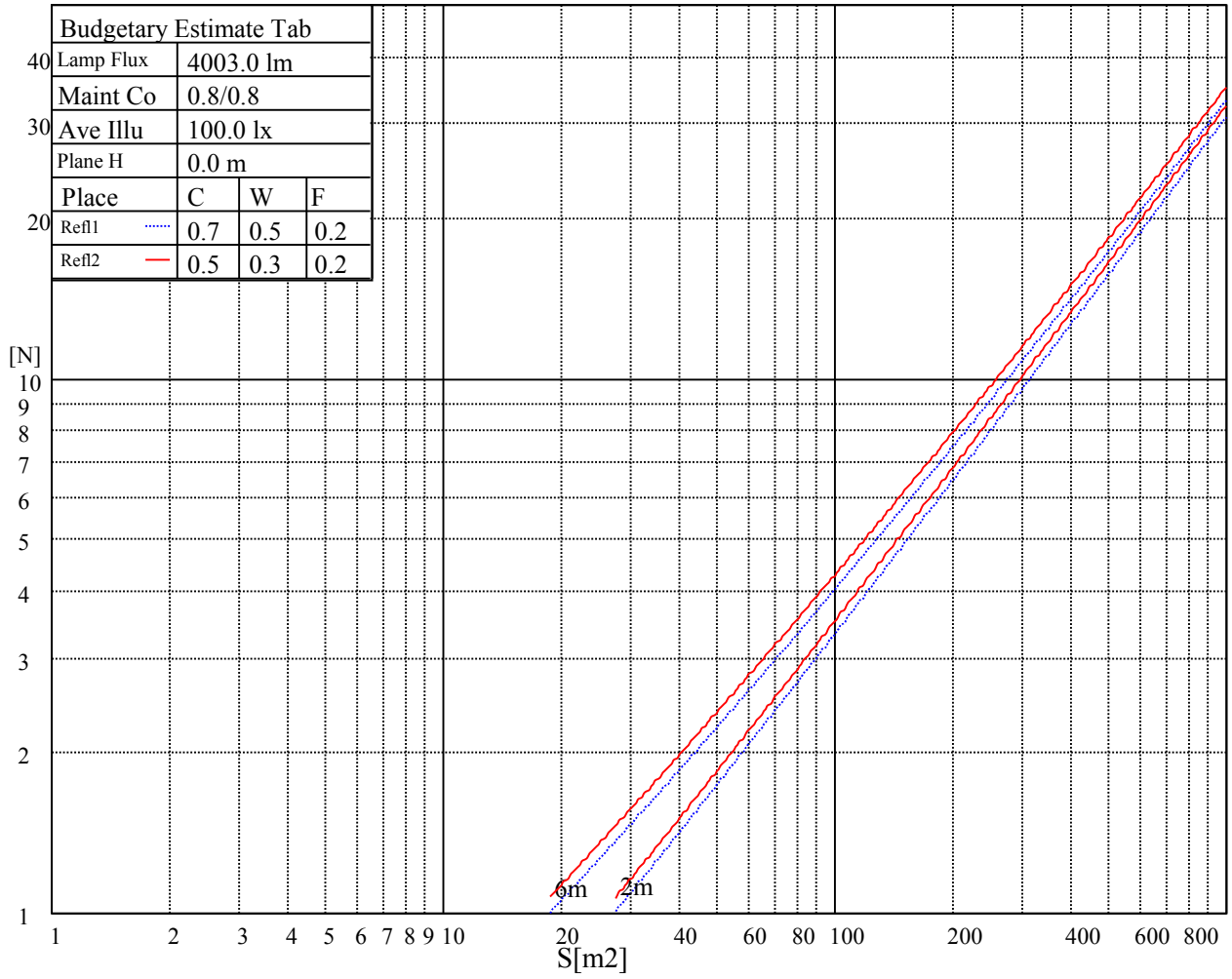
Luminance Limitting Curve



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

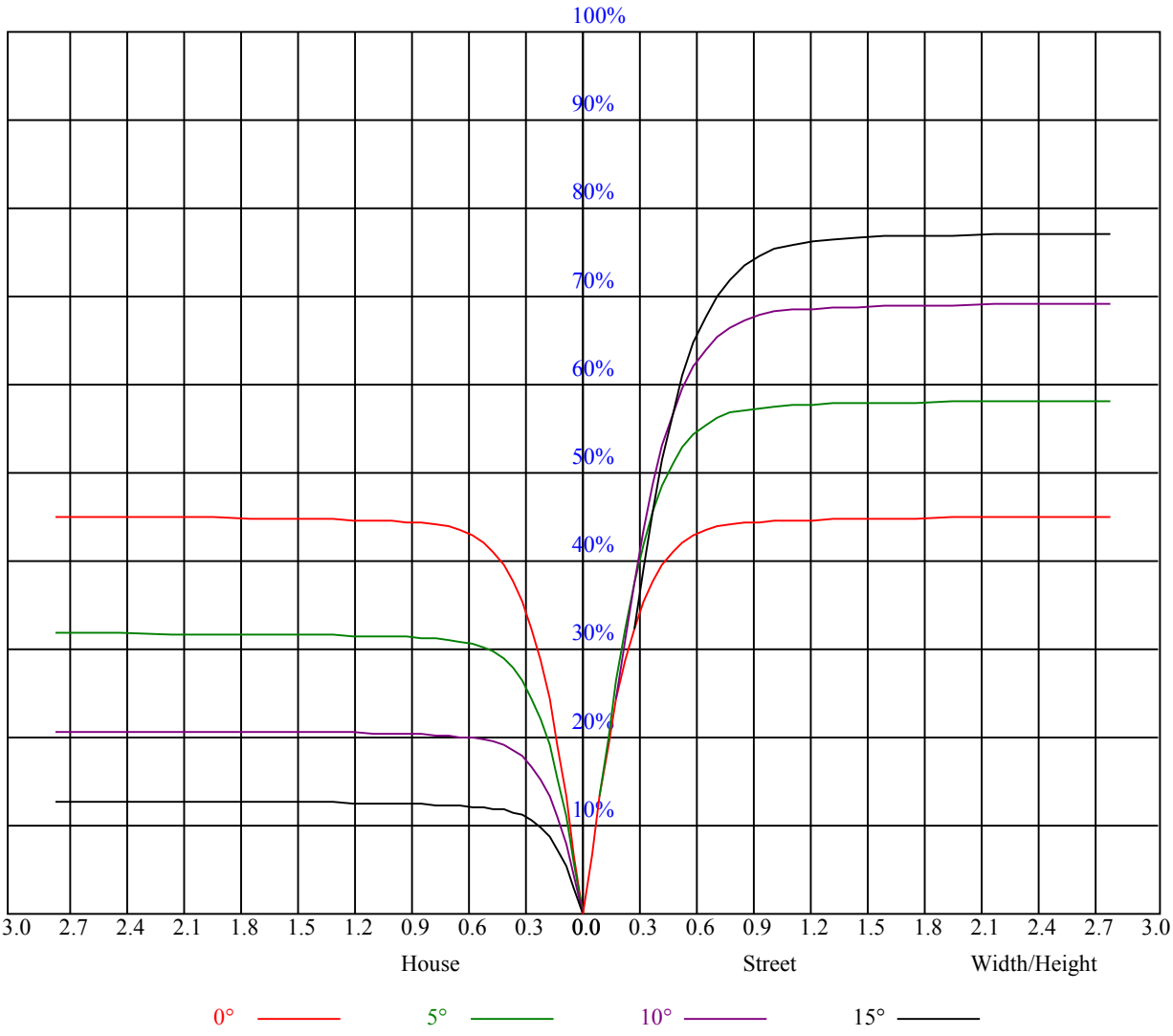


Equipment: GMS 1800 Date: 2024/8/26 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.25

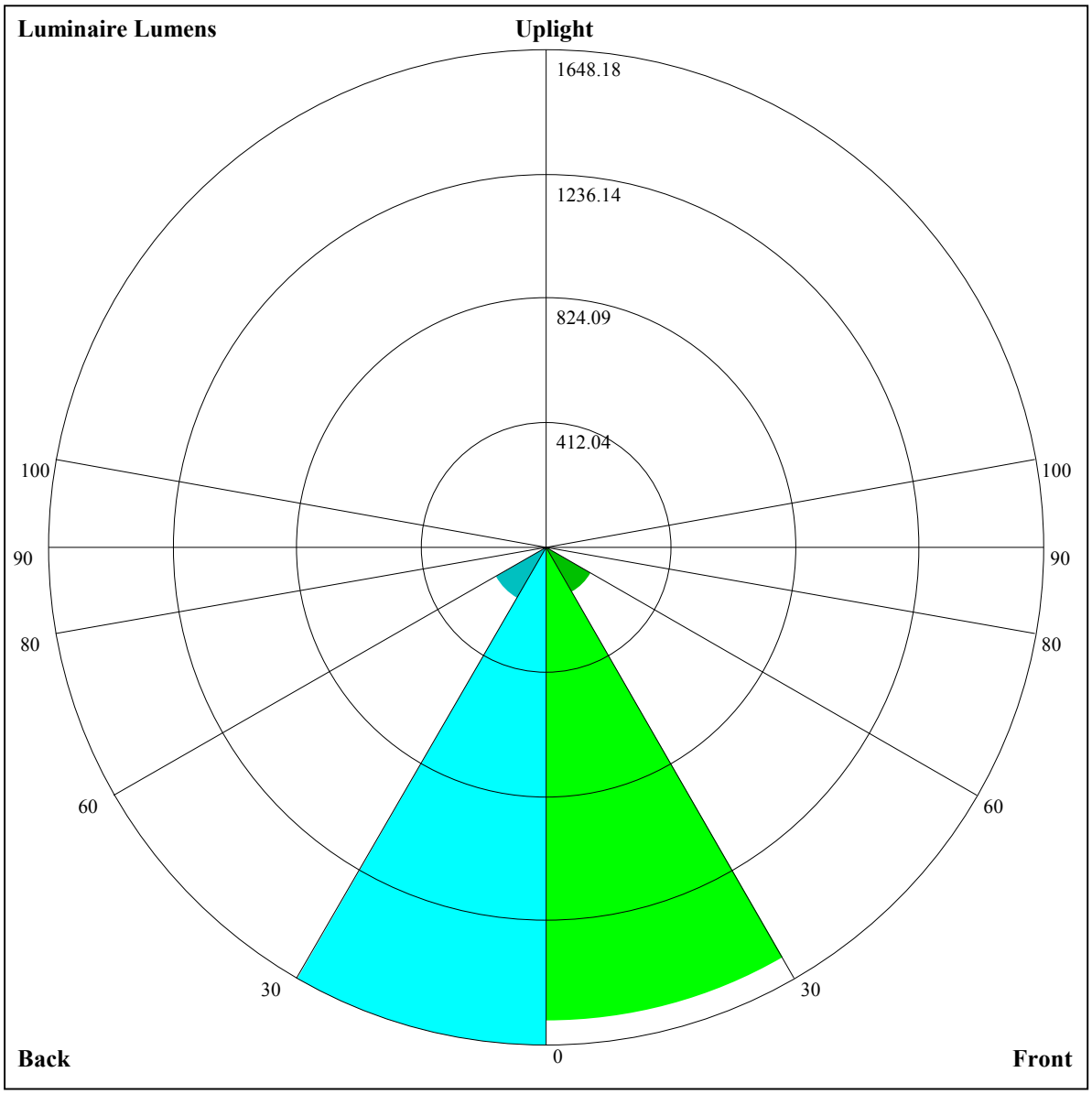
Utilization factor table for indoor luminaire

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	0.98	0.99	0.98	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	0.93	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	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	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
6	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.69
7	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.70	0.67	0.66
8	0.73	0.69	0.66	0.73	0.68	0.66	0.72	0.68	0.65	0.71	0.68	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	0.66	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.62
10	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.66	0.63	0.60	0.60

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=1569.4,FM=169.74,FH=16.28,FVH=2
BL=1648.18,BM=192.47,BH=13.69,BVH=1.76
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	12366.80	12182.94	11893.21	10945.77	10945.77	10603.64	10048.74	9416.36	8750.55
45.0	12444.80	12366.80	12249.80	11865.35	11486.48	11219.05	10745.46	10199.44	9608.85
90.0	12344.51	12121.65	11831.92	10997.55	10997.55	10673.29	10053.73	9398.49	8690.37
135.0	12478.23	12416.94	12233.08	11965.64	11636.92	11230.19	10723.17	10143.72	9469.55
180.0	12366.80	12416.94	12366.80	12221.94	11937.78	11570.06	11135.47	10606.17	10037.86
225.0	12444.80	12444.80	12311.08	12049.22	10958.55	10958.55	10605.33	9984.67	9377.89
270.0	12344.51	12455.95	12483.80	12394.66	12194.08	11809.64	11319.33	10745.46	10121.44
315.0	12478.23	12433.66	12322.23	12054.79	10906.19	10906.19	10551.82	10059.88	9295.99
360.0	12366.80	12182.94	11893.21	10945.77	10945.77	10603.64	10048.74	9416.36	8750.55

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8056.89	7348.13	6673.44	6047.74	5462.14	4944.55	4460.93	4041.95	3672.54
45.0	8923.54	8199.22	7486.06	6795.17	6160.01	5580.56	5045.68	4544.24	4115.22
90.0	7957.70	7247.32	6595.96	5981.98	5406.42	4863.77	4387.97	3972.88	3605.16
135.0	9051.68	8054.36	7619.78	6945.61	6321.59	5719.85	5179.40	4677.96	4237.80
180.0	9413.84	8745.24	8032.08	7330.05	6906.61	6026.29	5452.41	5134.83	4633.38
225.0	8739.41	8060.20	7508.08	6695.15	6168.63	5560.80	5023.14	4533.94	4105.45
270.0	9441.70	8756.39	8098.94	7430.34	6767.32	6126.58	5753.28	5006.68	4527.52
315.0	8748.87	8071.34	7405.53	6712.97	6042.16	5458.25	4938.40	4462.61	4040.85
360.0	8056.89	7348.13	6673.44	6047.74	5462.14	4944.55	4460.93	4041.95	3672.54

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3314.85	2992.28	2693.62	2433.96	2193.85	1972.67	1846.15	1569.83	1456.14
45.0	3725.21	3368.63	3034.33	2794.75	2794.75	2268.49	2040.06	1825.55	1623.29
90.0	3256.93	2941.56	2645.68	2395.54	2254.56	1940.34	1819.98	1617.72	1431.07
135.0	3842.21	3480.06	3151.33	2850.46	2850.46	2296.35	2162.11	1864.55	1746.44
180.0	4198.80	3808.78	3463.34	3156.90	2861.61	2744.60	2553.75	2144.81	1936.98
225.0	3721.00	3373.36	3047.42	2743.18	2475.75	2239.53	2027.23	1825.02	1636.11
270.0	4271.23	3870.07	3519.06	3190.33	2883.89	2772.46	2543.76	2145.92	1939.24
315.0	3661.98	3308.18	2983.92	2689.73	2425.08	2183.24	1967.62	1763.73	1570.36
360.0	3314.85	2992.28	2693.62	2433.96	2193.85	1972.67	1846.15	1569.83	1456.14

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1074.38	1074.38	914.85	773.09	647.89	531.93	430.28	347.23	277.16
45.0	1431.07	1248.36	1072.28	912.91	772.51	646.62	531.25	429.33	344.60
90.0	1049.99	1049.99	895.56	755.43	628.91	514.43	418.40	336.61	269.65
135.0	1552.01	1290.15	1182.60	1014.35	861.13	724.63	599.79	491.14	398.69
180.0	1744.76	1557.01	1374.25	1232.75	1030.49	875.59	765.84	639.90	524.57
225.0	1462.87	1067.81	1067.81	975.35	882.68	747.33	626.49	514.64	418.45
270.0	1740.29	1552.01	1370.36	1192.64	1025.49	901.76	763.63	619.87	530.72
315.0	1384.29	1045.47	1045.47	948.60	805.05	677.79	562.05	459.92	371.83
360.0	1074.38	1074.38	914.85	773.09	647.89	531.93	430.28	347.23	277.16

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	223.13	180.60	147.96	123.57	105.55	97.19	86.41	75.06	71.12
45.0	301.18	301.18	181.92	145.28	117.53	97.66	83.84	73.53	65.39
90.0	217.14	174.72	141.71	125.41	103.39	81.58	74.32	65.02	57.87
135.0	322.89	296.72	284.47	170.25	138.82	118.48	94.67	79.84	71.01
180.0	425.97	342.97	274.95	274.95	175.61	141.81	116.11	97.19	83.42
225.0	337.45	270.59	217.77	175.45	142.60	117.00	98.71	85.36	75.48
270.0	431.54	347.39	277.21	277.21	175.03	141.13	115.80	97.56	84.26
315.0	297.45	237.21	190.33	153.75	126.31	105.70	90.72	81.89	71.70
360.0	223.13	180.60	147.96	123.57	105.55	97.19	86.41	75.06	71.12

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	65.49	60.60	56.40	52.67	49.41	46.68	44.15	42.16	40.42
45.0	58.87	53.77	49.36	45.68	42.26	39.53	37.27	35.48	33.80
90.0	51.93	47.25	43.15	39.63	36.79	34.53	32.48	30.85	29.59
135.0	62.55	55.77	50.30	45.68	41.63	38.32	35.69	33.48	31.54
180.0	73.38	65.34	61.18	55.30	48.67	46.04	42.26	39.32	36.79
225.0	67.75	61.18	56.71	50.83	47.57	43.89	40.21	38.06	35.69
270.0	74.48	67.12	63.29	55.45	52.62	48.36	43.21	41.37	38.63
315.0	66.28	60.24	55.09	50.67	46.89	43.57	40.79	38.42	36.48
360.0	65.49	60.60	56.40	52.67	49.41	46.68	44.15	42.16	40.42

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	38.69	37.21	35.64	34.27	32.90	31.43	30.54	28.65	27.91
45.0	32.64	31.54	30.59	29.91	29.38	28.28	26.91	26.28	25.34
90.0	28.28	27.12	26.02	25.07	23.86	22.50	21.66	20.50	19.03
135.0	30.01	28.75	27.54	26.49	25.39	24.34	23.13	21.71	21.03
180.0	34.53	32.75	31.12	29.86	28.54	27.28	25.97	24.60	23.07
225.0	34.06	32.59	31.06	29.54	28.28	27.17	25.70	23.76	22.34
270.0	36.43	34.43	32.75	31.27	29.86	28.33	26.96	25.65	24.02
315.0	34.74	33.32	31.96	30.49	29.01	27.86	26.44	24.81	23.39
360.0	38.69	37.21	35.64	34.27	32.90	31.43	30.54	28.65	27.91

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	26.91	25.55	25.34	25.28	25.49	26.02	26.23	24.70	21.45
45.0	24.34	23.65	23.34	22.86	22.76	23.34	23.86	25.18	20.97
90.0	18.45	17.50	16.77	16.19	15.72	15.30	15.03	14.09	12.56
135.0	19.82	18.13	17.40	16.35	15.30	14.24	13.25	12.40	11.51
180.0	21.60	20.34	18.87	17.66	16.40	15.24	14.30	12.98	12.14
225.0	20.97	19.45	18.13	16.77	15.66	14.93	13.30	12.30	11.67
270.0	22.50	21.08	19.76	18.50	17.29	16.08	14.93	13.77	12.93
315.0	22.13	21.34	19.76	18.82	18.29	17.35	16.61	16.14	15.03
360.0	26.91	25.55	25.34	25.28	25.49	26.02	26.23	24.70	21.45

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	17.08	13.25	10.72	9.15	7.94	7.25	6.62	6.10	5.62
45.0	19.97	16.77	13.67	10.41	8.62	7.99	7.04	6.73	6.15
90.0	11.20	9.93	8.88	7.88	7.10	6.41	5.89	5.31	4.84
135.0	10.62	9.72	9.04	8.46	7.73	7.10	6.62	6.10	5.57
180.0	11.25	10.14	9.41	8.57	7.78	7.04	6.52	5.89	5.31
225.0	10.09	9.46	8.62	7.78	6.89	6.20	5.68	5.10	4.57
270.0	11.62	10.78	9.83	8.94	8.20	7.46	6.73	6.10	5.62
315.0	13.61	12.19	10.78	9.57	8.46	7.67	7.10	6.52	6.04
360.0	17.08	13.25	10.72	9.15	7.94	7.25	6.62	6.10	5.62

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.20	4.84	4.31	3.99	3.78	3.42	3.15	2.94	2.68
45.0	5.57	4.84	4.36	3.94	3.47	3.05	2.73	2.47	2.16
90.0	4.52	4.05	3.68	3.31	3.10	2.84	2.63	2.47	2.21
135.0	5.05	4.68	4.15	3.84	3.47	3.15	2.84	2.47	2.26
180.0	4.84	4.36	3.89	3.42	3.00	2.68	2.37	2.10	1.84
225.0	4.15	3.68	3.31	3.00	2.63	2.26	2.00	1.68	1.42
270.0	5.15	4.57	4.15	3.73	3.31	2.94	2.68	2.26	2.00
315.0	5.62	5.15	4.68	4.26	3.94	3.63	3.26	2.89	2.52
360.0	5.20	4.84	4.31	3.99	3.78	3.42	3.15	2.94	2.68

Intensity data(cd)

C/γ(°)	90.0
0.0	2.68
45.0	2.00
90.0	2.26
135.0	1.47
180.0	1.52
225.0	1.26
270.0	1.79
315.0	2.37
360.0	2.68