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Nata

Client:
LumCAT: 2-2521-L
Luminaire: 92.70.411.00
Report No: 2024903-B007
Ballast type: AC

Test No: 2024903-C007	Voltage(V): 36.590
LampCAT: LUMILEDS LUXEON CoB 1208	Current(A): 0.898
Lamp flux(lm): 4068.0	Power (W): 32.850
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3693.16, Efficiency(%): 90.79% , Luminous Efficacy(lm/W): 112.42
Central intensity(cd): 6101.771, Maximum intensity(cd): 6101.771
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=48.2
[C90/270]Total=48.2
Field angle(10%Imax): [C0/180]Total=71.0
[C90/270]Total=71.0
Maximum s/h(1/2): C0_180=0.76 C90_270=0.76
Maximum s/h(1/4): C0_180=0.74 C90_270=0.74
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.79%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.922%

Equipment: GMS 1800	Date: 2024/9/3	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6101.770	0.000	0	0.00%	0.00%
1.0	6087.362	5.832	5.832	0.14%	0.16%
2.0	6048.984	17.419	23.252	0.43%	0.63%
3.0	5990.141	28.794	52.045	0.71%	1.41%
4.0	5917.013	39.857	91.902	0.98%	2.49%
5.0	5834.483	50.554	142.457	1.24%	3.86%
6.0	5732.243	60.786	203.243	1.49%	5.50%
7.0	5617.190	70.446	273.688	1.73%	7.41%
8.0	5512.939	79.656	353.345	1.96%	9.57%
9.0	5398.990	88.435	441.78	2.17%	11.96%
10.0	5284.496	96.682	538.462	2.38%	14.58%
11.0	5166.992	104.432	642.893	2.57%	17.41%
12.0	5068.024	111.883	754.777	2.75%	20.44%
13.0	4937.938	118.746	873.522	2.92%	23.65%
14.0	4820.520	124.907	998.43	3.07%	27.03%
15.0	4686.453	130.516	1128.946	3.21%	30.57%
16.0	4537.129	135.151	1264.097	3.32%	34.23%
17.0	4403.903	139.236	1403.333	3.42%	38.00%
18.0	4248.719	142.663	1545.996	3.51%	41.86%
19.0	4079.566	144.895	1690.891	3.56%	45.78%
20.0	3901.471	146.075	1836.966	3.59%	49.74%
21.0	3716.629	146.283	1983.249	3.60%	53.70%
22.0	3513.067	145.284	2128.533	3.57%	57.63%
23.0	3296.470	142.882	2271.415	3.51%	61.50%
24.0	3081.187	139.438	2410.854	3.43%	65.28%
25.0	2829.985	134.407	2545.261	3.30%	68.92%
26.0	2581.982	127.750	2673.011	3.14%	72.38%
27.0	2317.520	119.867	2792.878	2.95%	75.62%
28.0	2066.311	110.989	2903.868	2.73%	78.63%
29.0	1828.735	101.905	3005.773	2.51%	81.39%
30.0	1607.131	92.768	3098.541	2.28%	83.90%
31.0	1404.404	83.807	3182.347	2.06%	86.17%
32.0	1167.722	73.688	3256.036	1.81%	88.16%
33.0	990.297	63.576	3319.612	1.56%	89.89%
34.0	805.014	54.331	3373.943	1.34%	91.36%
35.0	674.114	45.936	3419.88	1.13%	92.60%
36.0	544.804	38.811	3458.69	0.95%	93.65%
37.0	439.823	32.113	3490.803	0.79%	94.52%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	346.446	26.245	3517.048	0.65%	95.23%
39.0	263.956	20.835	3537.882	0.51%	95.80%
40.0	210.191	16.537	3554.419	0.41%	96.24%
41.0	175.263	13.726	3568.145	0.34%	96.62%
42.0	135.605	11.294	3579.439	0.28%	96.92%
43.0	118.837	9.425	3588.864	0.23%	97.18%
44.0	90.118	7.887	3596.751	0.19%	97.39%
45.0	76.360	6.398	3603.149	0.16%	97.56%
46.0	67.162	5.613	3608.762	0.14%	97.71%
47.0	59.271	5.029	3613.79	0.12%	97.85%
48.0	52.891	4.534	3618.325	0.11%	97.97%
49.0	47.431	4.120	3622.444	0.10%	98.09%
50.0	43.390	3.787	3626.231	0.09%	98.19%
51.0	39.507	3.507	3629.738	0.09%	98.28%
52.0	36.426	3.258	3632.997	0.08%	98.37%
53.0	34.047	3.066	3636.062	0.08%	98.45%
54.0	31.413	2.885	3638.947	0.07%	98.53%
55.0	29.461	2.717	3641.665	0.07%	98.61%
56.0	27.556	2.576	3644.241	0.06%	98.68%
57.0	25.828	2.441	3646.682	0.06%	98.74%
58.0	24.330	2.319	3649.001	0.06%	98.80%
59.0	23.009	2.213	3651.215	0.05%	98.86%
60.0	22.142	2.133	3653.348	0.05%	98.92%
61.0	21.544	2.085	3655.432	0.05%	98.98%
62.0	21.084	2.054	3657.487	0.05%	99.03%
63.0	20.670	2.031	3659.517	0.05%	99.09%
64.0	20.460	2.018	3661.535	0.05%	99.14%
65.0	20.151	2.010	3663.545	0.05%	99.20%
66.0	20.079	2.007	3665.553	0.05%	99.25%
67.0	20.026	2.017	3667.569	0.05%	99.31%
68.0	19.934	2.024	3669.593	0.05%	99.36%
69.0	19.869	2.031	3671.624	0.05%	99.42%
70.0	19.750	2.035	3673.659	0.05%	99.47%
71.0	19.350	2.021	3675.68	0.05%	99.53%
72.0	18.495	1.968	3677.647	0.05%	99.58%
73.0	17.050	1.859	3679.506	0.05%	99.63%
74.0	15.618	1.717	3681.224	0.04%	99.68%
75.0	13.653	1.547	3682.77	0.04%	99.72%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.984	1.361	3684.131	0.03%	99.76%
77.0	10.427	1.195	3685.326	0.03%	99.79%
78.0	8.962	1.038	3686.364	0.03%	99.82%
79.0	7.996	0.911	3687.275	0.02%	99.84%
80.0	7.208	0.820	3688.095	0.02%	99.86%
81.0	6.570	0.745	3688.84	0.02%	99.88%
82.0	6.045	0.684	3689.524	0.02%	99.90%
83.0	5.467	0.626	3690.15	0.02%	99.92%
84.0	4.954	0.568	3690.717	0.01%	99.93%
85.0	4.540	0.518	3691.235	0.01%	99.95%
86.0	4.014	0.468	3691.703	0.01%	99.96%
87.0	3.640	0.419	3692.122	0.01%	99.97%
88.0	3.285	0.379	3692.501	0.01%	99.98%
89.0	2.950	0.342	3692.843	0.01%	99.99%
90.0	2.779	0.314	3693.157	0.01%	100.00%

Zonal flux distribution table

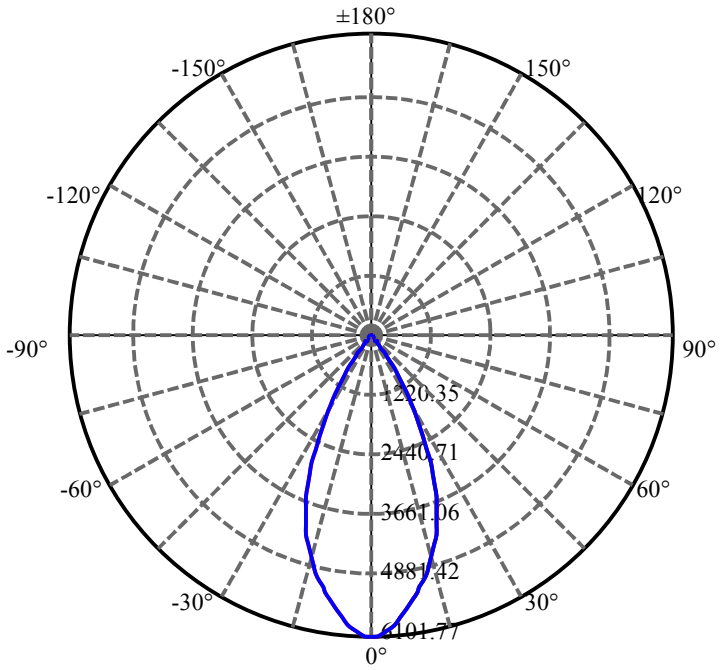
ZONAL LUMEN SUMMARY

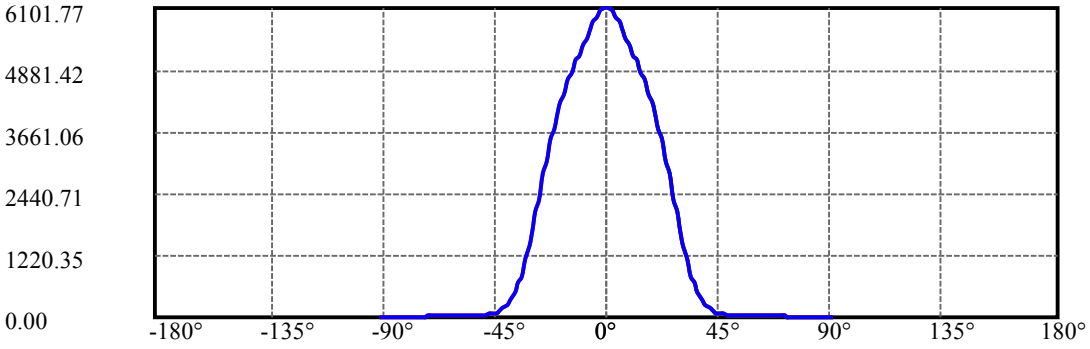
Zone	Lumens	%Lamp	%Fixt
0-30	3098.54	76.17%	83.90%
0-40	3554.42	87.38%	96.24%
0-60	3653.35	89.81%	98.92%
0-90	3692.84	90.78%	99.99%
0-120	3692.84	90.78%	99.99%
0-180	3693.16	90.79%	100.00%
60-90	39.50	0.97%	1.07%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.50	2954.53	72.63%	80.00%

ZONAL LUMEN SUMMARY

0-10	538.46
10-20	1298.50
20-30	1261.57
30-40	455.88
40-50	71.81
50-60	27.12
60-70	20.31
70-80	14.44
80-90	4.75
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:35.5 Right:35.5
:C90/270Left:35.5 Right:35.5

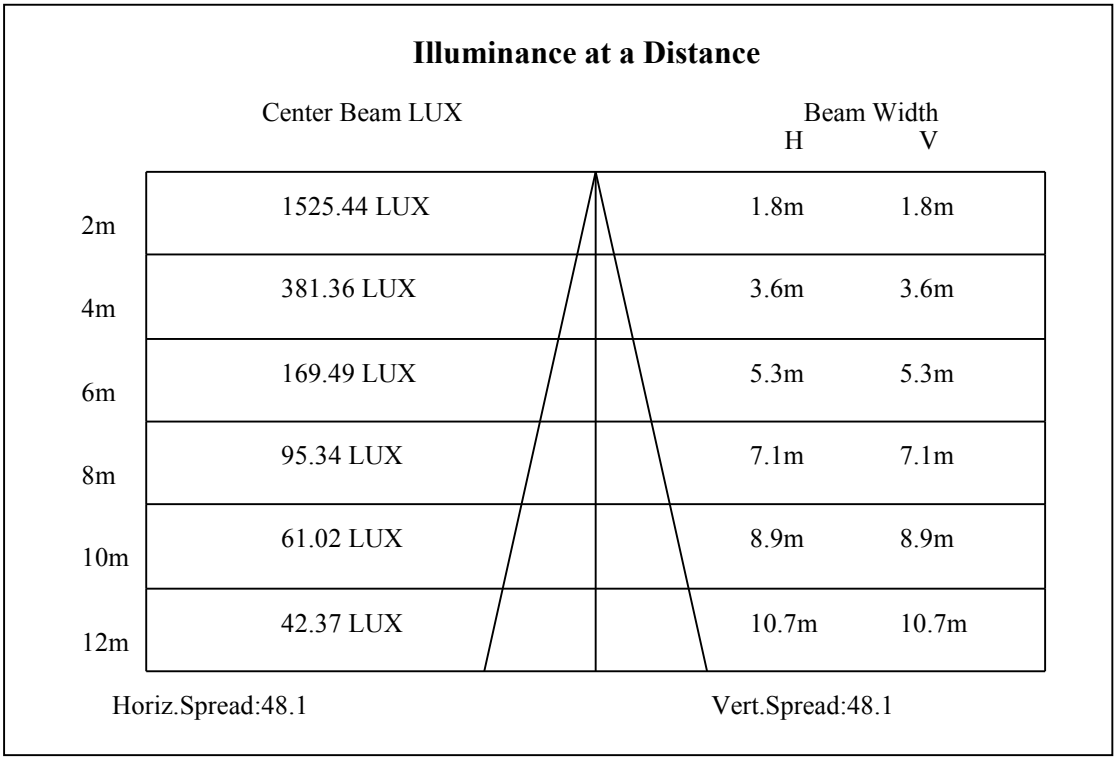
Beam Angle(50%Imax):C0/180Left:24.1 Right:24.1
:C90/270Left:24.1 Right:24.1

Equipment: GMS 1800
Temperature(°C): 25.0

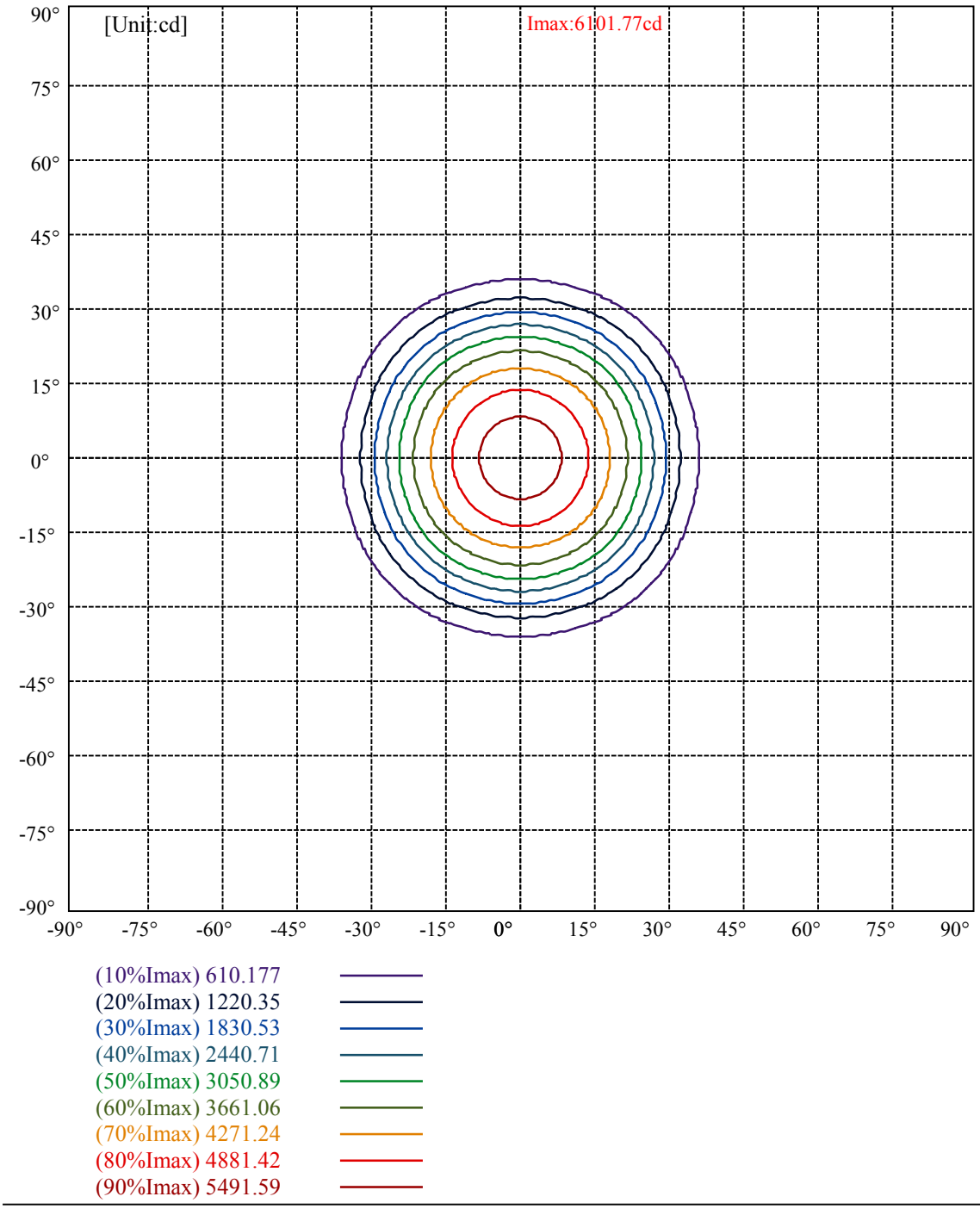
Date: 2024/9/3
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Lux distance Curve



ISO-Intensity(V-H)

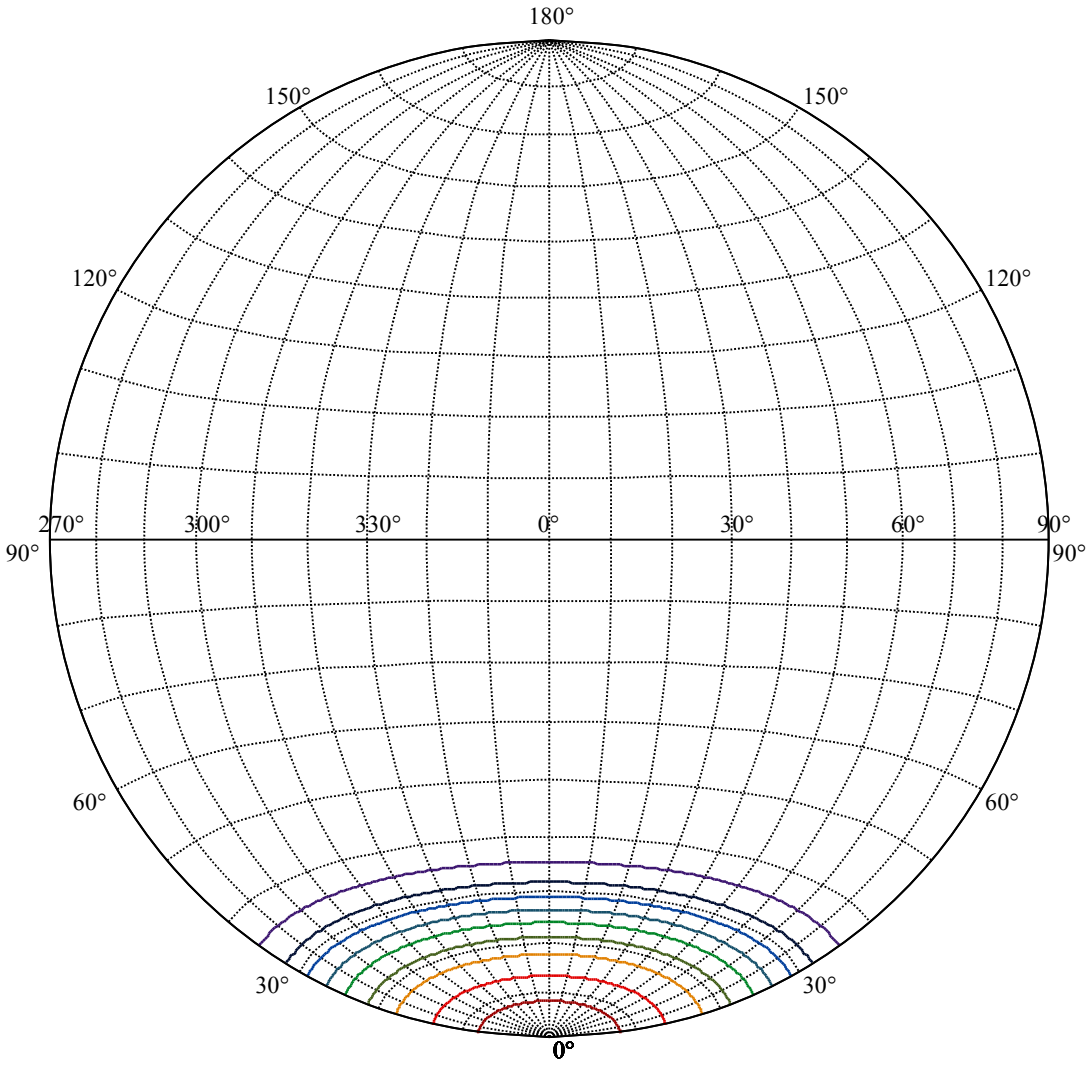


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/3
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:6101.77

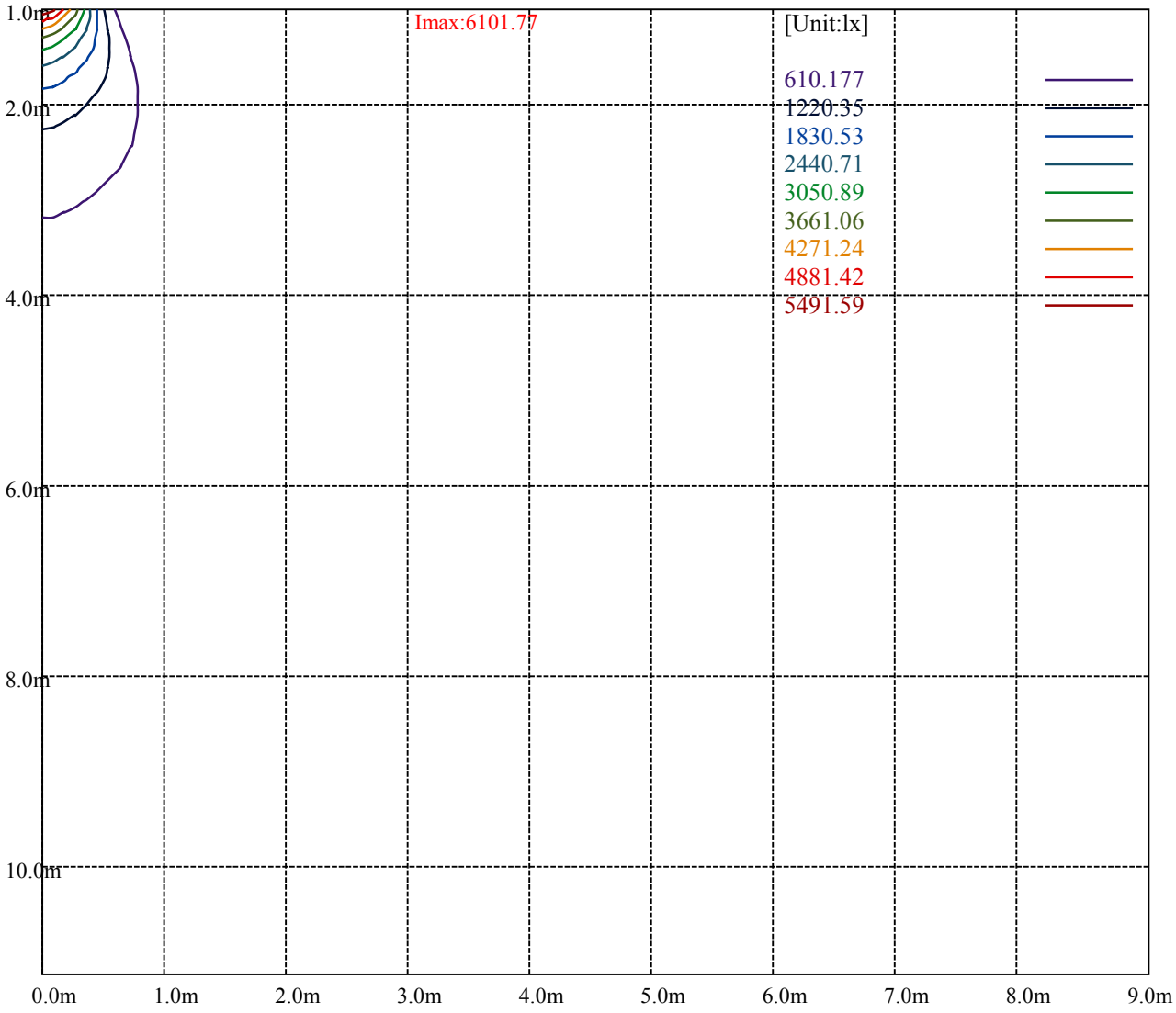
(10%Imax) 610.177
(20%Imax) 1220.35
(30%Imax) 1830.53
(40%Imax) 2440.71
(50%Imax) 3050.89
(60%Imax) 3661.06
(70%Imax) 4271.24
(80%Imax) 4881.42
(90%Imax) 5491.59

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/3
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/3
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2521-L

Luminance Limitting Curve(no luminous side)

Luminance Table

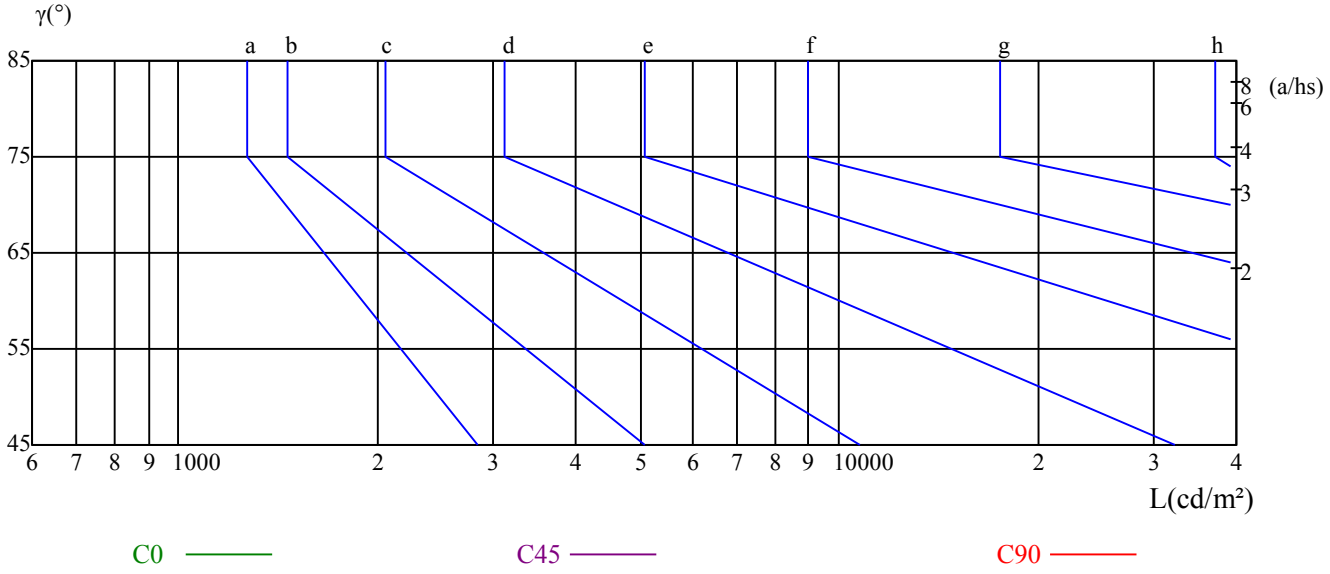
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

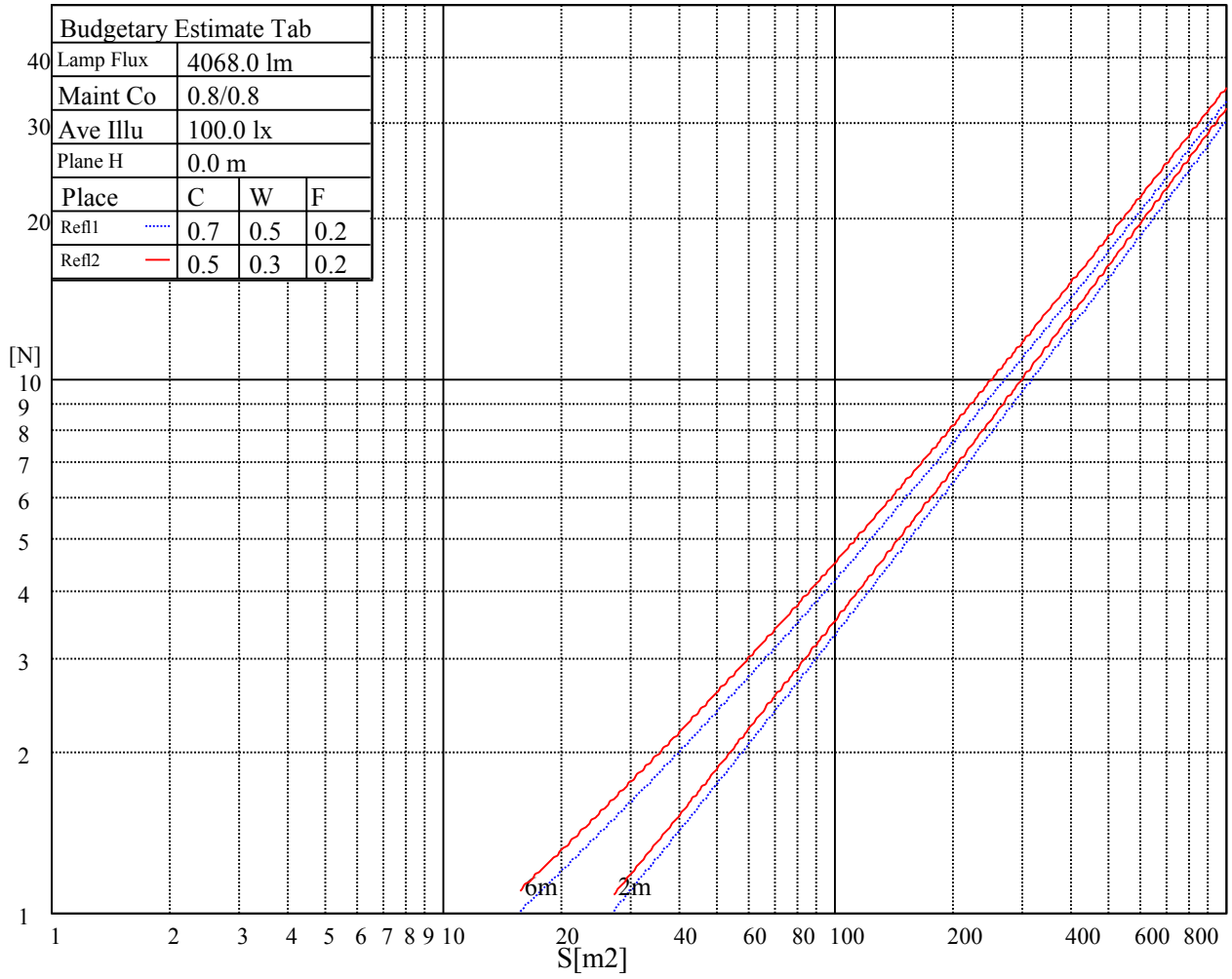
Luminance Limitting Curve



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

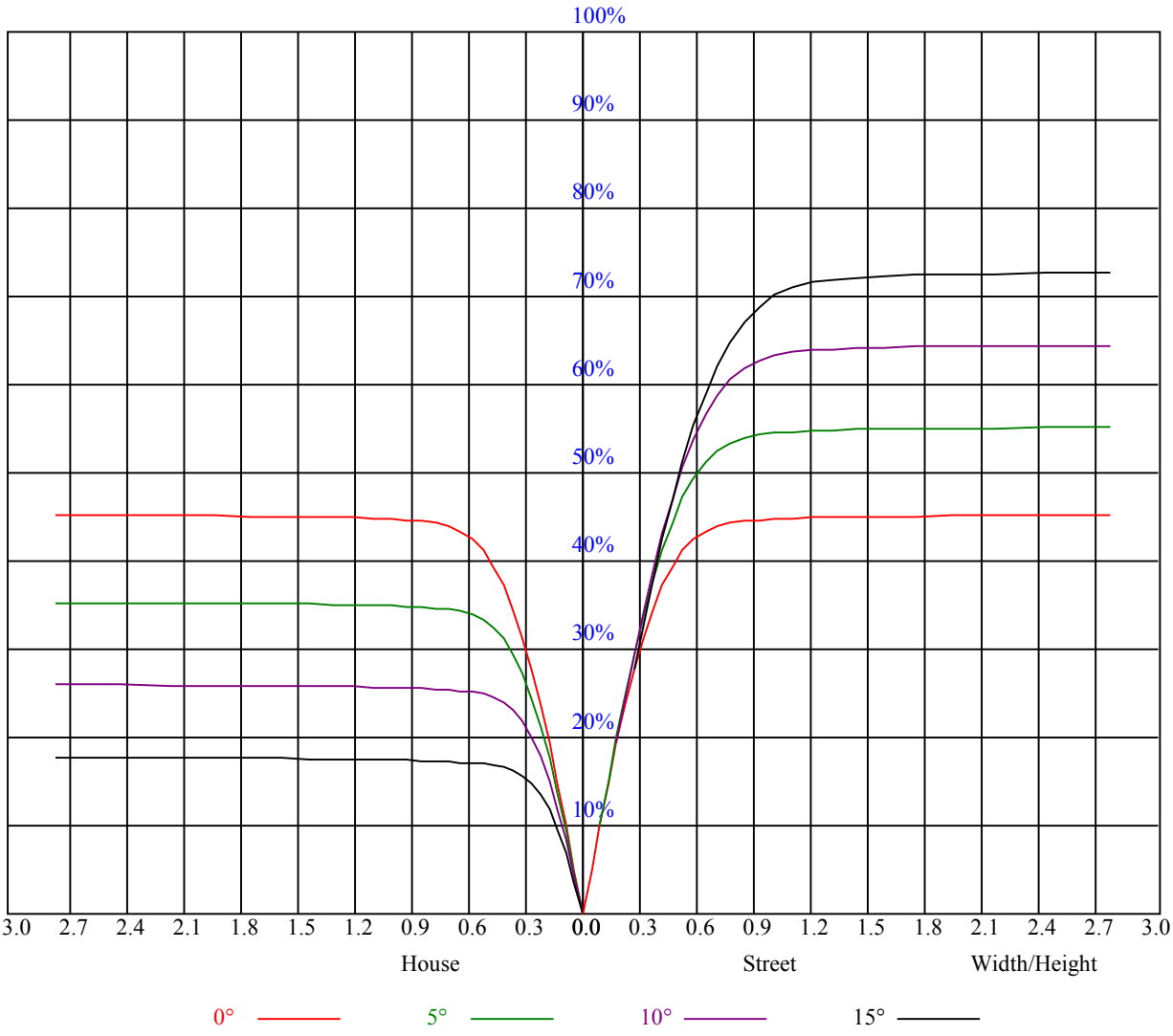


Equipment: GMS 1800	Date: 2024/9/3	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25

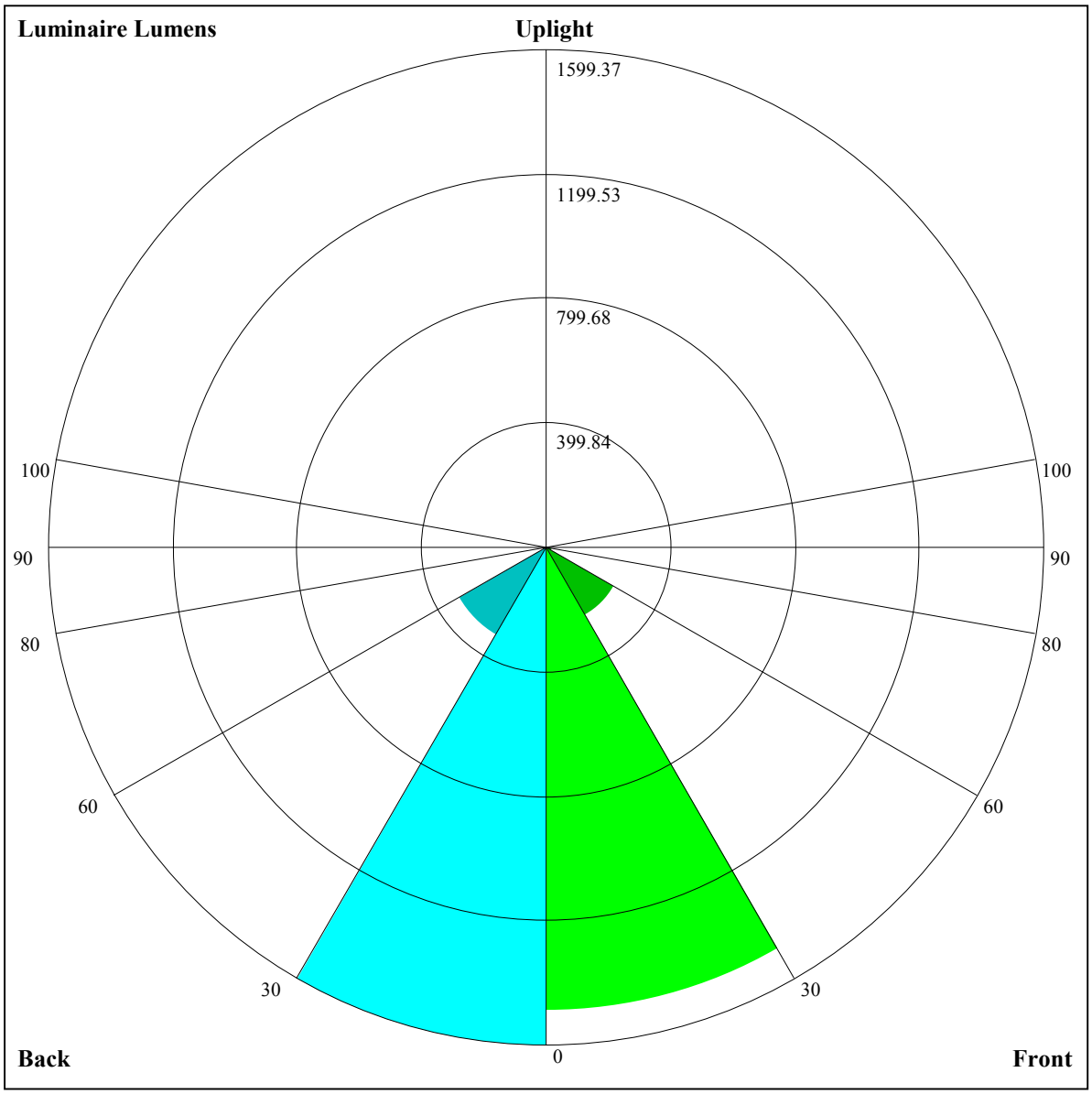
Utilization factor table for indoor luminaire

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	1.08	1.08	1.08	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.01	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
2	0.95	0.91	0.88	0.93	0.90	0.87	0.90	0.88	0.86	0.88	0.86	0.84	0.85	0.83	0.82	0.81
3	0.89	0.85	0.82	0.88	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.78	0.81	0.79	0.77	0.76
4	0.84	0.79	0.76	0.83	0.79	0.75	0.81	0.77	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.72
5	0.79	0.75	0.71	0.79	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.74	0.71	0.69	0.68
6	0.75	0.70	0.67	0.75	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
7	0.71	0.66	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.64	0.62	0.61
8	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.58
9	0.65	0.60	0.57	0.64	0.60	0.56	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.55
10	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.56	0.54	0.60	0.56	0.53	0.59	0.56	0.53	0.52

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2024/9/3	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25



Luminaire Lumens:
FL=1490.99,FM=250.59,FH=18.74,FVH=2.59
BL=1599.37,BM=325.25,BH=16.07,BVH=2.55
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	6079.48	6019.88	5939.67	5848.26	5740.19	5649.36	5530.68	5402.01	5293.36
45.0	6122.37	6050.52	5959.69	5832.65	5726.79	5625.97	5521.80	5372.47	5282.22
90.0	6047.74	5941.30	5820.98	5694.52	5588.08	5471.65	5348.50	5218.14	5095.57
135.0	6157.49	6102.35	6030.44	5951.91	5857.20	5751.86	5625.40	5528.47	5413.67
180.0	6079.48	6105.13	6086.16	6063.35	6029.34	5951.91	5893.94	5756.91	5649.36
225.0	6122.37	6163.64	6178.09	6167.53	6098.46	6027.13	5940.77	5829.86	5719.59
270.0	6047.74	6135.20	6194.28	6219.88	6223.82	6193.70	6109.02	6063.87	5984.24
315.0	6157.49	6180.88	6182.56	6143.03	6072.23	6004.27	5887.84	5765.79	5665.50
360.0	6079.48	6019.88	5939.67	5848.26	5740.19	5649.36	5530.68	5402.01	5293.36

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5186.92	5062.14	4926.16	4809.15	4696.04	4595.22	4429.76	4274.28	4131.10
45.0	5157.96	5005.26	4897.20	4768.47	4630.34	4493.83	4355.07	4194.07	4009.10
90.0	4971.83	4840.90	4708.86	4634.75	4439.22	4351.75	4170.10	3894.30	3780.66
135.0	5298.93	5175.78	5067.13	5002.48	4862.08	4665.97	4584.08	4442.00	4288.21
180.0	5594.75	5498.93	5381.35	5289.42	5176.88	5063.77	4942.35	4831.44	4695.51
225.0	5592.54	5466.08	5378.56	5275.49	5147.34	5079.38	4930.05	4810.26	4722.27
270.0	5828.76	5754.12	5628.18	5528.47	5418.72	5304.50	5191.39	5091.10	4956.80
315.0	5560.22	5472.75	5348.50	5235.96	5132.89	5009.73	4888.84	4759.59	4647.58
360.0	5186.92	5062.14	4926.16	4809.15	4696.04	4595.22	4429.76	4274.28	4131.10

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3955.01	3761.69	3557.80	3343.29	3106.50	2857.40	2602.79	2333.67	2061.82
45.0	3829.65	3630.75	3431.28	3222.34	2977.77	2730.94	2578.30	2211.67	1942.55
90.0	3581.71	3388.39	3159.43	2915.38	2662.97	2410.57	2147.02	1874.01	1607.73
135.0	4122.74	3942.24	3750.02	3548.86	3333.78	3112.07	2862.97	2613.41	2358.22
180.0	4552.86	4421.40	4286.52	4116.59	3933.88	3756.12	3568.36	3362.21	3141.03
225.0	4581.82	4424.19	4283.74	4155.59	3995.17	3806.84	3611.83	3407.36	3191.17
270.0	4840.38	4710.55	4576.25	4448.10	4308.81	4126.10	3935.51	3745.55	3541.61
315.0	4525.58	4357.33	4166.73	3982.87	3785.66	3571.73	3342.71	3091.99	2811.73
360.0	3955.01	3761.69	3557.80	3343.29	3106.50	2857.40	2602.79	2333.67	2061.82

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1783.24	1509.65	1042.68	1042.68	922.10	742.55	593.22	469.49	365.26
45.0	1777.66	1411.57	1264.50	1038.85	843.84	676.69	537.98	423.18	331.83
90.0	1039.84	1039.84	877.11	698.87	553.80	481.10	378.77	295.82	230.12
135.0	2092.99	1812.20	1536.40	1285.68	1145.81	851.62	741.87	585.86	460.50
180.0	2998.95	2651.83	2398.32	2235.64	1851.72	1687.36	1426.07	1183.13	957.48
225.0	2964.95	2727.63	2488.57	2234.54	1970.41	1695.72	1312.43	1026.39	1026.39
270.0	3333.78	3100.35	2908.13	2600.00	2392.75	2123.63	1848.94	1575.40	1311.28
315.0	2548.76	2277.43	2114.17	1720.79	1554.80	1083.10	1083.10	880.84	710.07
360.0	1783.24	1509.65	1042.68	1042.68	922.10	742.55	593.22	469.49	365.26

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	283.73	220.55	171.93	136.03	109.12	90.41	78.00	68.12	60.08
45.0	300.60	286.10	156.95	125.20	102.18	85.89	74.22	65.34	59.66
90.0	179.66	141.24	113.11	92.72	78.79	68.70	61.13	54.88	49.41
135.0	358.53	292.25	292.25	160.79	128.73	105.60	88.67	76.06	66.12
180.0	765.84	604.84	472.22	366.36	298.92	298.92	163.00	130.30	106.33
225.0	825.76	654.56	515.74	400.58	310.64	241.52	190.59	152.90	124.73
270.0	1078.42	870.59	695.61	553.54	437.69	343.50	297.82	297.82	168.09
315.0	565.89	448.46	353.75	276.43	215.45	167.57	131.41	105.28	86.52
360.0	283.73	220.55	171.93	136.03	109.12	90.41	78.00	68.12	60.08

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	53.88	48.46	43.99	40.21	36.85	33.96	31.48	29.28	27.75
45.0	53.82	48.04	44.78	40.84	37.37	34.11	31.64	29.44	27.39
90.0	44.84	41.10	37.90	34.95	32.48	31.12	28.17	26.33	25.34
135.0	58.34	52.40	47.41	44.84	39.68	36.58	34.85	32.48	30.17
180.0	88.99	76.32	70.28	62.18	55.77	50.30	45.83	42.10	38.95
225.0	103.97	88.41	76.64	67.28	59.40	55.66	48.57	44.57	42.42
270.0	134.09	118.27	98.66	84.63	73.90	65.86	59.45	54.03	49.46
315.0	72.96	64.28	54.51	48.20	43.99	39.53	36.06	33.17	30.91
360.0	53.88	48.46	43.99	40.21	36.85	33.96	31.48	29.28	27.75

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.44	24.34	22.97	21.71	20.55	19.66	18.98	18.66	19.45
45.0	25.55	23.81	22.50	21.29	20.39	19.66	19.34	20.45	21.29
90.0	23.71	22.29	21.08	20.03	19.24	18.61	20.29	21.34	21.81
135.0	28.23	26.49	24.81	23.39	22.13	20.87	19.76	18.82	18.13
180.0	35.95	33.27	30.85	28.70	26.86	25.07	23.44	22.02	20.71
225.0	38.00	36.32	33.75	31.43	29.33	27.39	25.55	24.07	22.71
270.0	45.57	42.10	38.95	35.95	33.32	31.01	28.86	26.86	25.07
315.0	28.86	27.07	25.55	24.13	22.81	21.81	20.92	20.13	19.50
360.0	25.44	24.34	22.97	21.71	20.55	19.66	18.98	18.66	19.45

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.97	20.71	21.50	22.29	23.18	24.18	25.12	26.28	27.54
45.0	22.18	23.18	23.29	24.60	25.91	26.49	27.39	28.44	29.59
90.0	22.39	23.18	23.97	24.65	25.39	26.28	27.28	26.49	23.81
135.0	17.66	17.92	17.98	18.08	18.08	18.19	18.19	18.19	17.87
180.0	19.50	18.40	17.40	16.71	16.03	15.51	14.93	14.19	13.56
225.0	21.45	20.29	19.13	18.19	16.87	15.82	14.93	14.19	13.14
270.0	23.50	22.02	20.66	19.50	18.66	17.61	16.40	15.61	14.56
315.0	18.71	17.98	17.29	16.61	16.08	15.40	14.72	14.61	14.72
360.0	19.97	20.71	21.50	22.29	23.18	24.18	25.12	26.28	27.54

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	27.12	25.07	23.34	18.19	16.19	13.40	10.09	8.83	7.36
45.0	30.38	28.96	26.23	22.71	17.66	13.30	9.72	7.78	6.73
90.0	20.13	15.77	12.51	10.14	8.41	7.62	6.94	6.36	5.73
135.0	16.45	14.19	12.56	10.88	9.51	8.41	7.67	7.15	6.62
180.0	13.09	12.72	12.25	11.56	10.78	9.93	8.94	8.04	7.41
225.0	12.25	11.51	11.14	10.41	9.83	9.25	8.57	7.99	7.46
270.0	13.56	12.83	11.98	11.25	10.57	9.93	9.46	8.78	8.25
315.0	14.98	15.35	14.93	14.09	12.93	11.56	10.30	9.04	8.09
360.0	27.12	25.07	23.34	18.19	16.19	13.40	10.09	8.83	7.36

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.52	5.73	5.26	4.89	4.52	4.10	3.78	3.36	3.31
45.0	6.04	5.47	4.73	4.21	3.84	3.36	3.00	2.94	2.84
90.0	5.20	4.89	4.57	4.21	3.89	3.42	3.15	3.05	2.84
135.0	6.04	5.52	4.84	4.31	3.99	3.47	3.26	2.84	2.26
180.0	6.83	6.41	5.73	5.05	4.73	4.10	3.63	3.21	2.84
225.0	6.89	6.25	5.83	5.26	4.78	4.21	3.73	3.15	2.73
270.0	7.67	7.25	6.68	6.10	5.57	4.94	4.47	3.99	3.47
315.0	7.36	6.83	6.10	5.62	4.99	4.52	4.10	3.73	3.31
360.0	6.52	5.73	5.26	4.89	4.52	4.10	3.78	3.36	3.31

Intensity data(cd)

C/γ(°)	90.0
0.0	3.26
45.0	2.79
90.0	2.84
135.0	2.26
180.0	2.47
225.0	2.47
270.0	3.00
315.0	3.15
360.0	3.26