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Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

Client:
LumCAT: 2-2519-L
Luminaire: 92.70.411.00
Report No: 2024903-B002
Ballast type: AC

Test No: 2024903-C002	Voltage(V): 36.720
LampCAT: LUMILEDS LUXEON CoB 1208	Current(A): 0.898
Lamp flux(lm): 4068.1	Power (W): 32.970
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3683.15, Efficiency(%): 90.54% , Luminous Efficacy(lm/W): 111.71
Central intensity(cd): 11727.670, Maximum intensity(cd): 11806.960
Angle of maximum intensity: C=0.0 γ=1.0
Beam Angle(50%Imax): [C0/180]Total=27.6
[C90/270]Total=27.6
Field angle(10%Imax): [C0/180]Total=57.2
[C90/270]Total=57.2
Maximum s/h(1/2): C0_180=0.46 C90_270=0.46
Maximum s/h(1/4): C0_180=0.49 C90_270=0.49
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.54%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.004%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11727.666	0.000	0	0.00%	0.00%
1.0	11806.957	11.261	11.261	0.28%	0.31%
2.0	11613.100	33.615	44.876	0.83%	1.22%
3.0	11385.984	55.006	99.882	1.35%	2.71%
4.0	11059.768	75.133	175.015	1.85%	4.75%
5.0	10627.165	93.296	268.311	2.29%	7.28%
6.0	10164.057	109.263	377.574	2.69%	10.25%
7.0	9734.766	123.512	501.086	3.04%	13.60%
8.0	9236.381	135.773	636.859	3.34%	17.29%
9.0	8607.615	144.616	781.475	3.55%	21.22%
10.0	8036.123	150.620	932.094	3.70%	25.31%
11.0	7511.819	155.356	1087.45	3.82%	29.53%
12.0	6898.808	157.529	1244.979	3.87%	33.80%
13.0	6319.839	156.872	1401.851	3.86%	38.06%
14.0	5779.326	154.868	1556.719	3.81%	42.27%
15.0	5256.151	151.500	1708.219	3.72%	46.38%
16.0	4765.980	146.852	1855.072	3.61%	50.37%
17.0	4317.609	141.456	1996.528	3.48%	54.21%
18.0	3920.979	135.836	2132.364	3.34%	57.90%
19.0	3540.787	129.819	2262.183	3.19%	61.42%
20.0	3246.260	124.222	2386.405	3.05%	64.79%
21.0	2960.885	119.190	2505.595	2.93%	68.03%
22.0	2629.616	112.343	2617.938	2.76%	71.08%
23.0	2417.336	105.899	2723.837	2.60%	73.95%
24.0	2128.617	99.391	2823.228	2.44%	76.65%
25.0	1893.709	91.459	2914.687	2.25%	79.14%
26.0	1747.591	85.953	3000.64	2.11%	81.47%
27.0	1467.348	78.654	3079.294	1.93%	83.60%
28.0	1313.583	70.407	3149.702	1.73%	85.52%
29.0	1092.058	62.938	3212.64	1.55%	87.23%
30.0	965.074	55.542	3268.182	1.37%	88.73%
31.0	845.376	50.382	3318.564	1.24%	90.10%
32.0	696.013	44.159	3362.723	1.09%	91.30%
33.0	567.649	37.228	3399.951	0.92%	92.31%
34.0	465.684	31.272	3431.223	0.77%	93.16%
35.0	392.878	26.664	3457.887	0.66%	93.88%
36.0	298.706	22.020	3479.907	0.54%	94.48%
37.0	247.070	17.800	3497.707	0.44%	94.97%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	200.138	14.927	3512.634	0.37%	95.37%
39.0	179.685	12.964	3525.599	0.32%	95.72%
40.0	164.783	12.014	3537.613	0.30%	96.05%
41.0	134.041	10.641	3548.254	0.26%	96.34%
42.0	121.163	9.272	3557.526	0.23%	96.59%
43.0	109.987	8.562	3566.088	0.21%	96.82%
44.0	97.858	7.845	3573.933	0.19%	97.03%
45.0	88.785	7.173	3581.106	0.18%	97.23%
46.0	80.861	6.634	3587.74	0.16%	97.41%
47.0	73.121	6.124	3593.864	0.15%	97.58%
48.0	66.728	5.653	3599.518	0.14%	97.73%
49.0	61.275	5.257	3604.774	0.13%	97.87%
50.0	56.603	4.915	3609.689	0.12%	98.01%
51.0	52.359	4.610	3614.299	0.11%	98.13%
52.0	48.706	4.337	3618.636	0.11%	98.25%
53.0	45.519	4.099	3622.735	0.10%	98.36%
54.0	42.792	3.892	3626.627	0.10%	98.47%
55.0	40.105	3.700	3630.327	0.09%	98.57%
56.0	37.852	3.523	3633.85	0.09%	98.66%
57.0	35.795	3.367	3637.217	0.08%	98.75%
58.0	33.903	3.223	3640.44	0.08%	98.84%
59.0	32.030	3.082	3643.523	0.08%	98.92%
60.0	30.191	2.940	3646.462	0.07%	99.00%
61.0	28.509	2.801	3649.264	0.07%	99.08%
62.0	26.767	2.664	3651.927	0.07%	99.15%
63.0	25.072	2.521	3654.448	0.06%	99.22%
64.0	23.614	2.389	3656.837	0.06%	99.29%
65.0	21.879	2.251	3659.089	0.06%	99.35%
66.0	20.388	2.109	3661.198	0.05%	99.40%
67.0	19.166	1.989	3663.186	0.05%	99.46%
68.0	17.694	1.867	3665.054	0.05%	99.51%
69.0	16.426	1.741	3666.794	0.04%	99.56%
70.0	15.256	1.627	3668.421	0.04%	99.60%
71.0	14.152	1.520	3669.941	0.04%	99.64%
72.0	13.003	1.412	3671.353	0.03%	99.68%
73.0	11.991	1.307	3672.66	0.03%	99.72%
74.0	10.900	1.203	3673.864	0.03%	99.75%
75.0	9.961	1.102	3674.966	0.03%	99.78%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.995	1.006	3675.972	0.02%	99.81%
77.0	8.167	0.915	3676.887	0.02%	99.83%
78.0	7.418	0.834	3677.721	0.02%	99.85%
79.0	6.689	0.758	3678.479	0.02%	99.87%
80.0	6.084	0.689	3679.168	0.02%	99.89%
81.0	5.512	0.627	3679.795	0.02%	99.91%
82.0	4.921	0.566	3680.361	0.01%	99.92%
83.0	4.415	0.508	3680.868	0.01%	99.94%
84.0	3.916	0.454	3681.322	0.01%	99.95%
85.0	3.482	0.404	3681.726	0.01%	99.96%
86.0	3.075	0.358	3682.084	0.01%	99.97%
87.0	2.694	0.316	3682.4	0.01%	99.98%
88.0	2.372	0.277	3682.678	0.01%	99.99%
89.0	2.122	0.246	3682.924	0.01%	99.99%
90.0	1.965	0.224	3683.148	0.01%	100.00%

Zonal flux distribution table

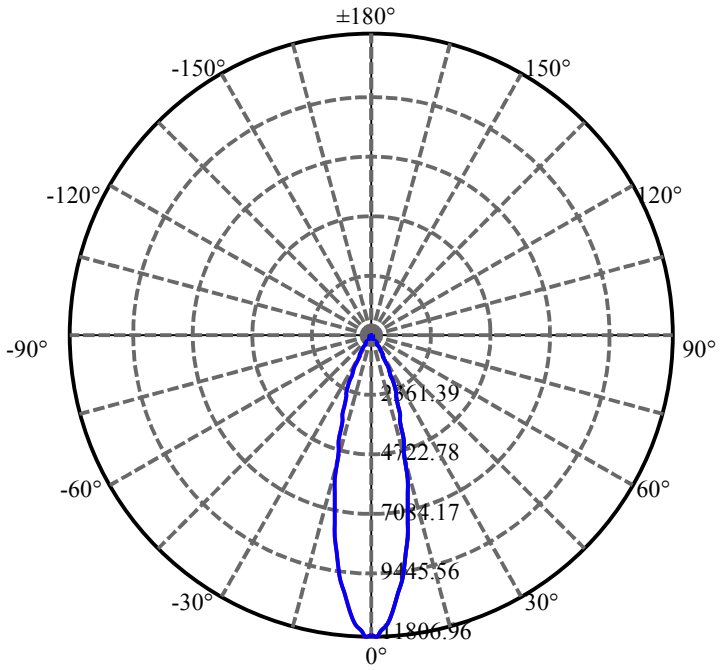
ZONAL LUMEN SUMMARY

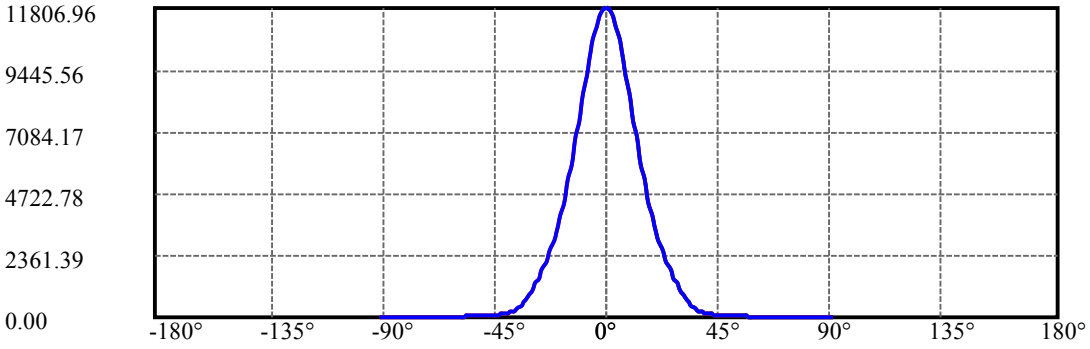
Zone	Lumens	%Lamp	%Fixt
0-30	3268.18	80.34%	88.73%
0-40	3537.61	86.96%	96.05%
0-60	3646.46	89.64%	99.00%
0-90	3682.92	90.53%	99.99%
0-120	3682.92	90.53%	99.99%
0-180	3683.15	90.54%	100.00%
60-90	36.46	0.90%	0.99%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.37	2946.52	72.43%	80.00%

ZONAL LUMEN SUMMARY

0-10	932.09
10-20	1454.31
20-30	881.78
30-40	269.43
40-50	72.08
50-60	36.77
60-70	21.96
70-80	10.75
80-90	3.76
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):

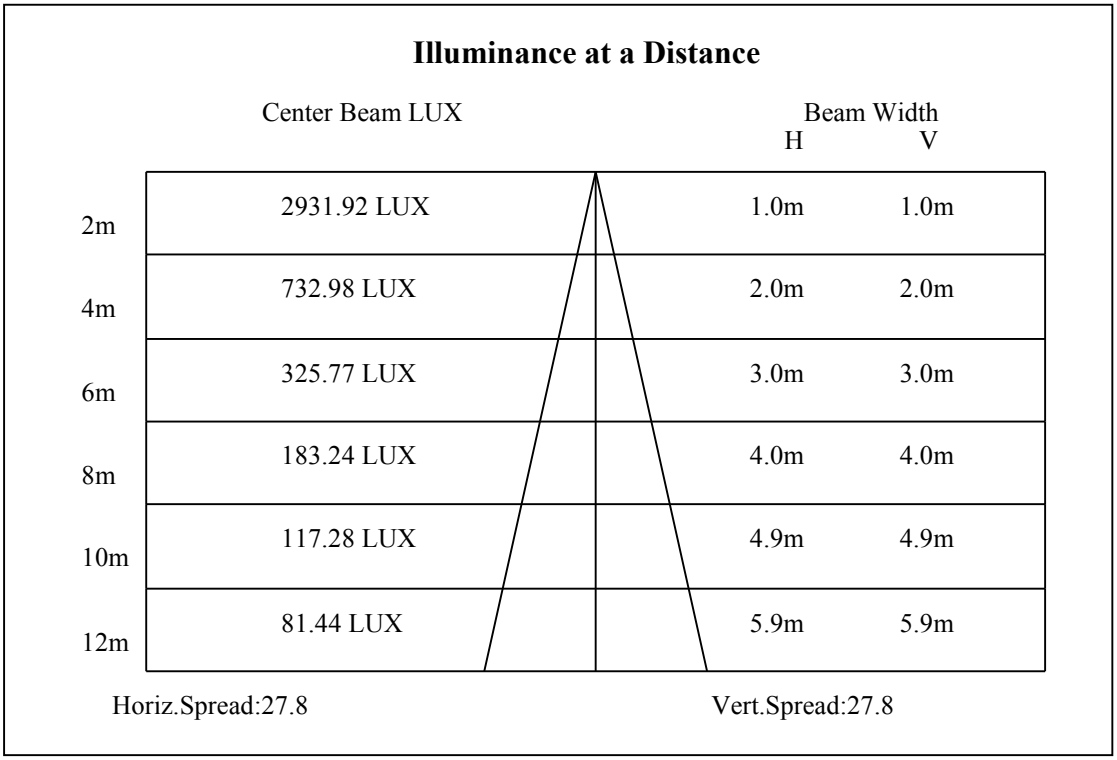
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:29.6 Right:27.6
:C90/270Left:29.6 Right:27.6

Beam Angle(50%Imax):C0/180Left:14.8 Right:12.8
:C90/270Left:14.8 Right:12.8

Lux distance Curve

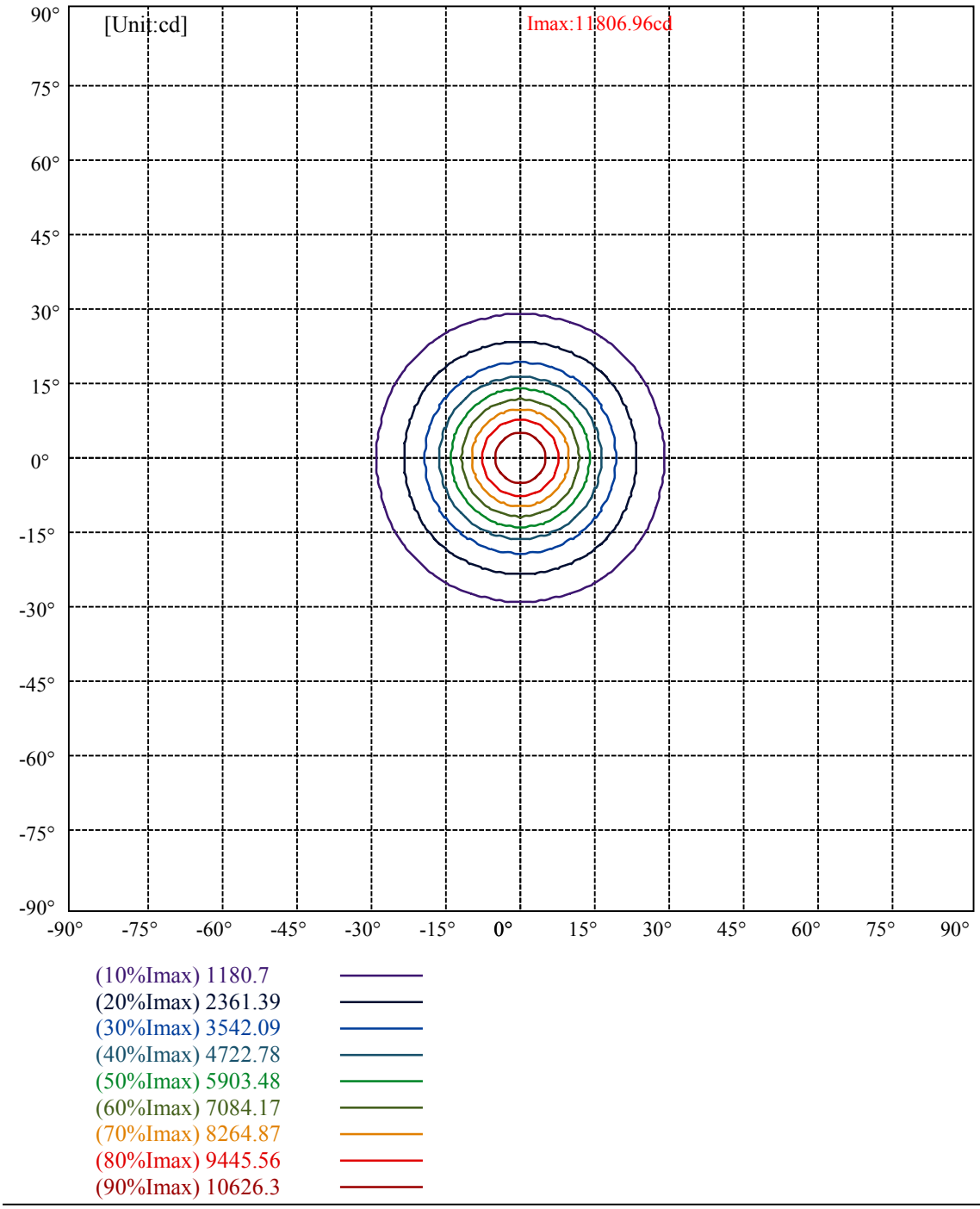


Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)



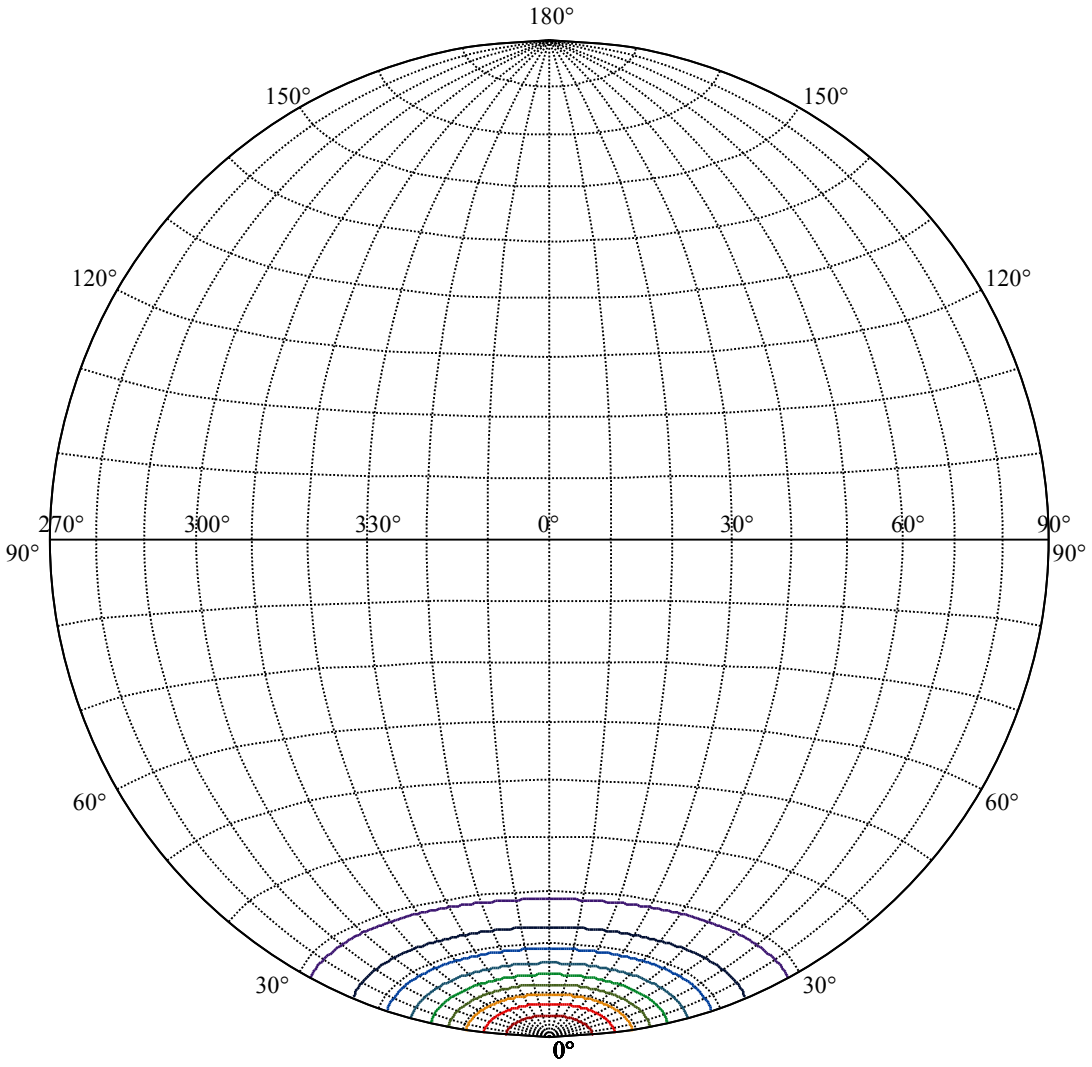
(10%Imax) 1180.7
(20%Imax) 2361.39
(30%Imax) 3542.09
(40%Imax) 4722.78
(50%Imax) 5903.48
(60%Imax) 7084.17
(70%Imax) 8264.87
(80%Imax) 9445.56
(90%Imax) 10626.3

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

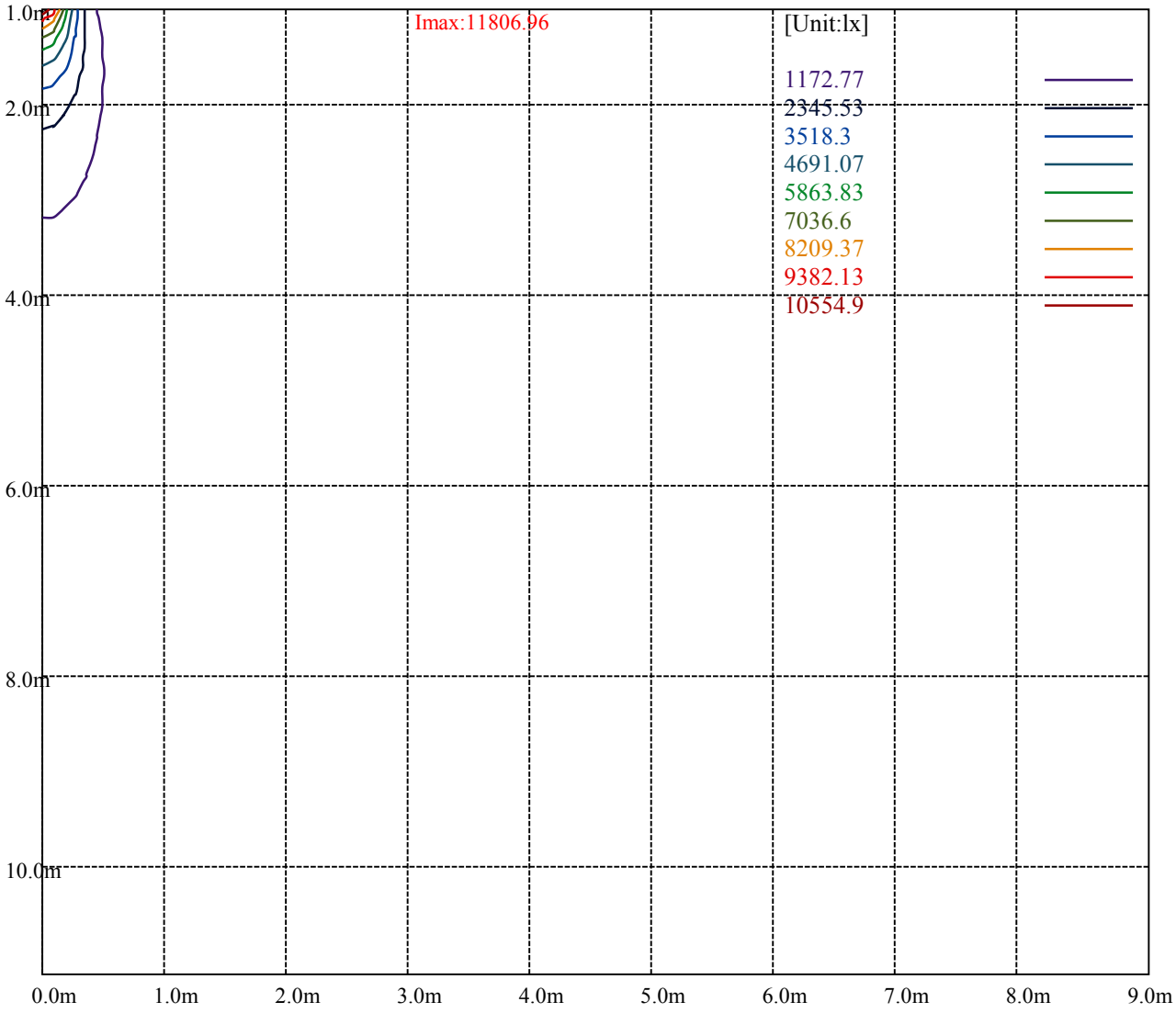


House [Unit:cd] Road

Imax:11806.96

(10%Imax) 1180.7
(20%Imax) 2361.39
(30%Imax) 3542.09
(40%Imax) 4722.78
(50%Imax) 5903.48
(60%Imax) 7084.17
(70%Imax) 8264.87
(80%Imax) 9445.56
(90%Imax) 10626.3

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 2-2519-L

Luminance Limitting Curve(no luminous side)

Luminance Table

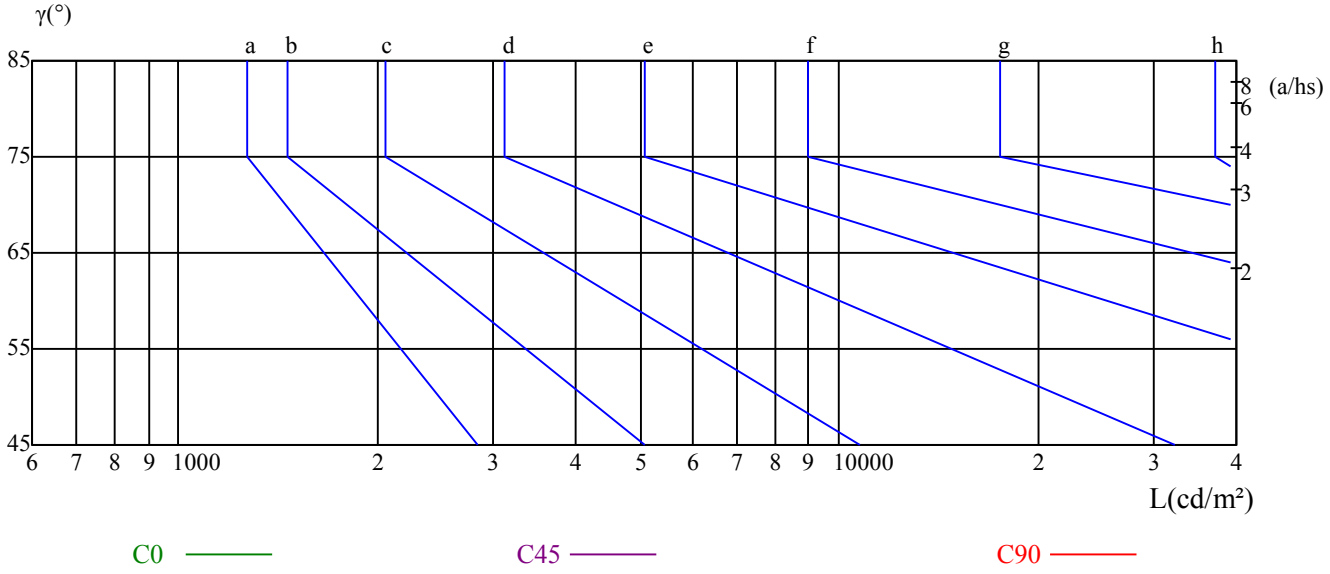
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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



Equipment: GMS 1800
Temperature(°C): 25.0

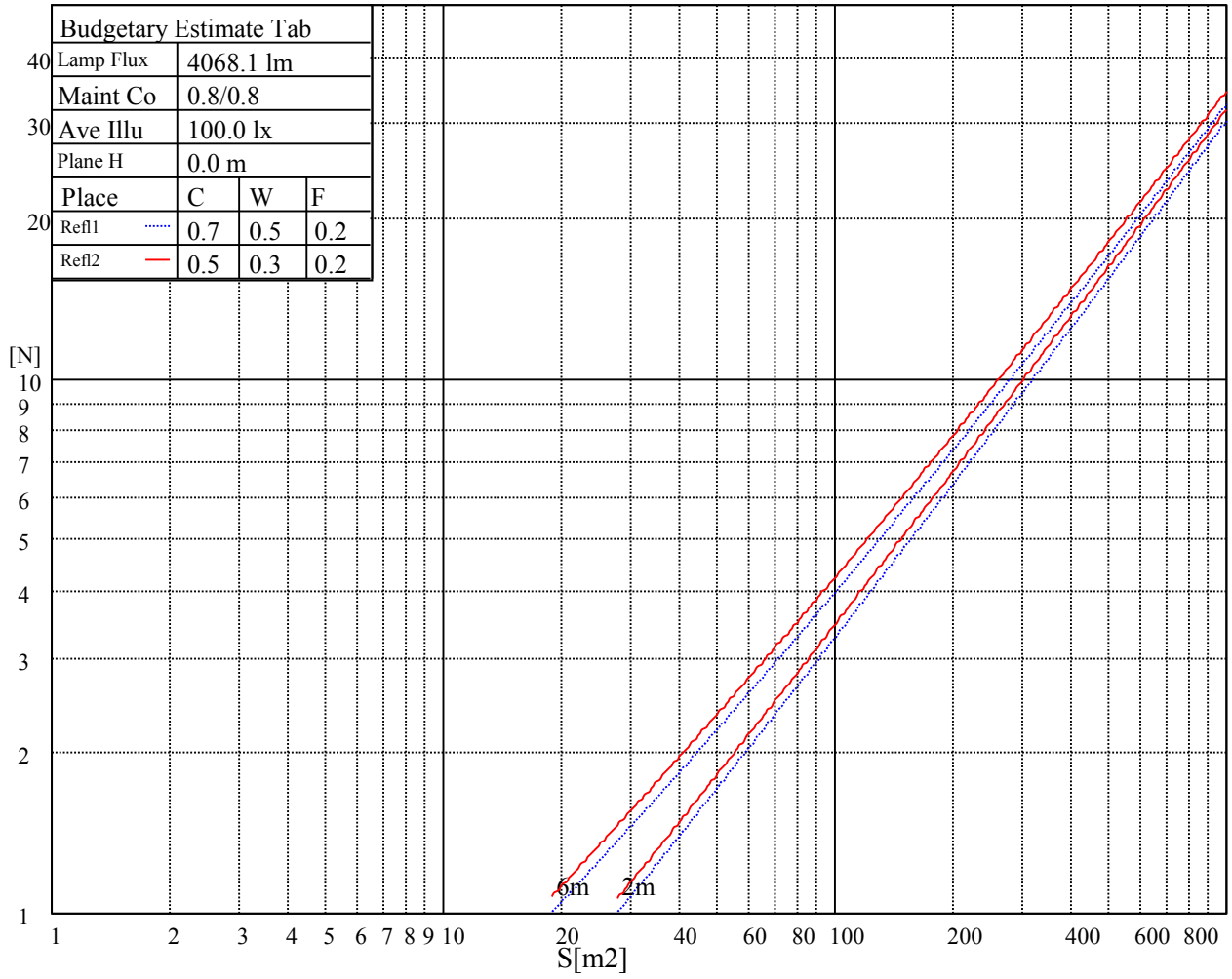
Date: 2024/9/3
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

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

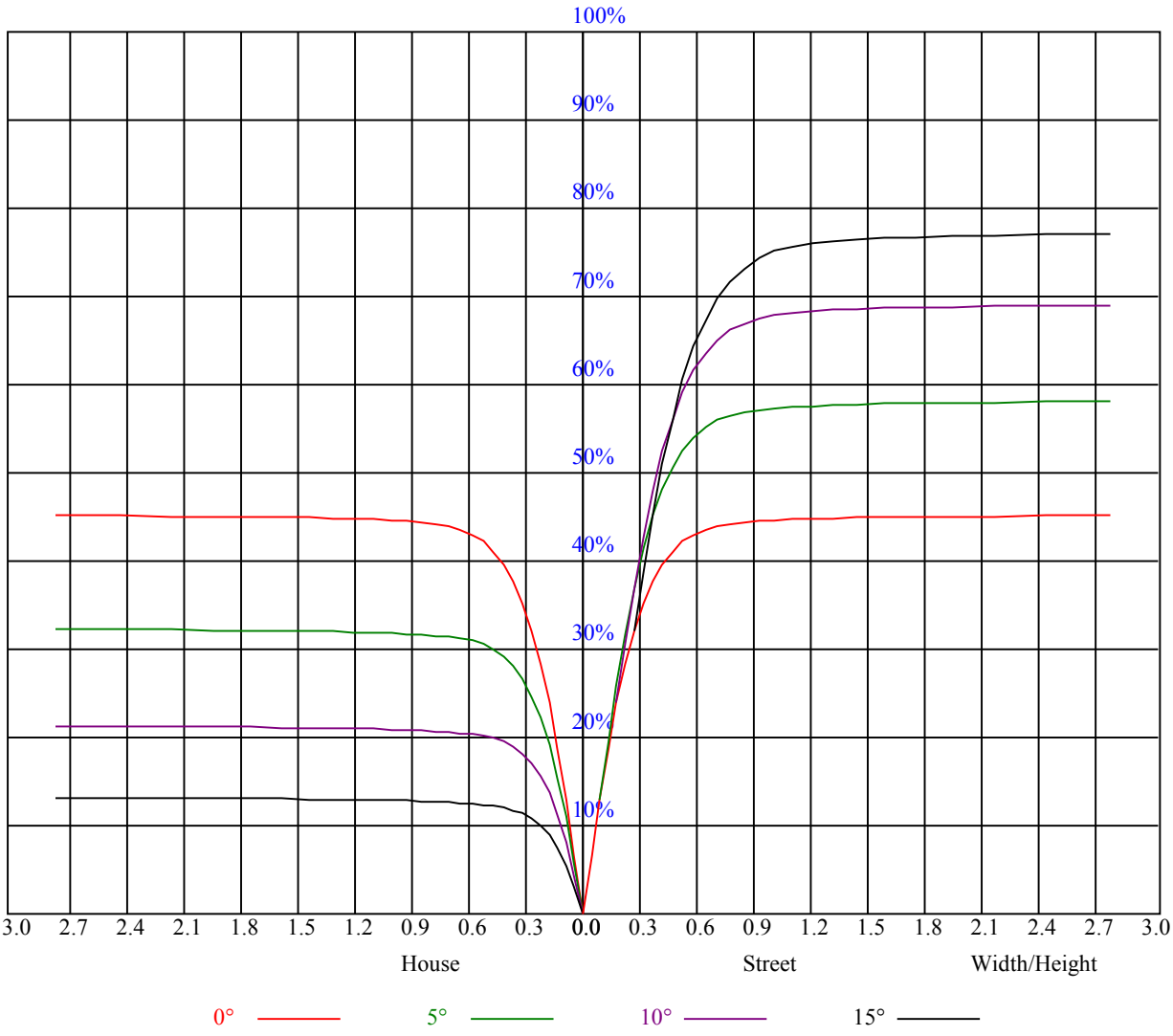
Date: 2024/9/3
Humidity(%): 60.0%

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	1.08	1.08	1.08	1.05	1.05	1.05	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.91
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	0.89	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	0.82	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	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
8	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.63
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.61
10	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.59

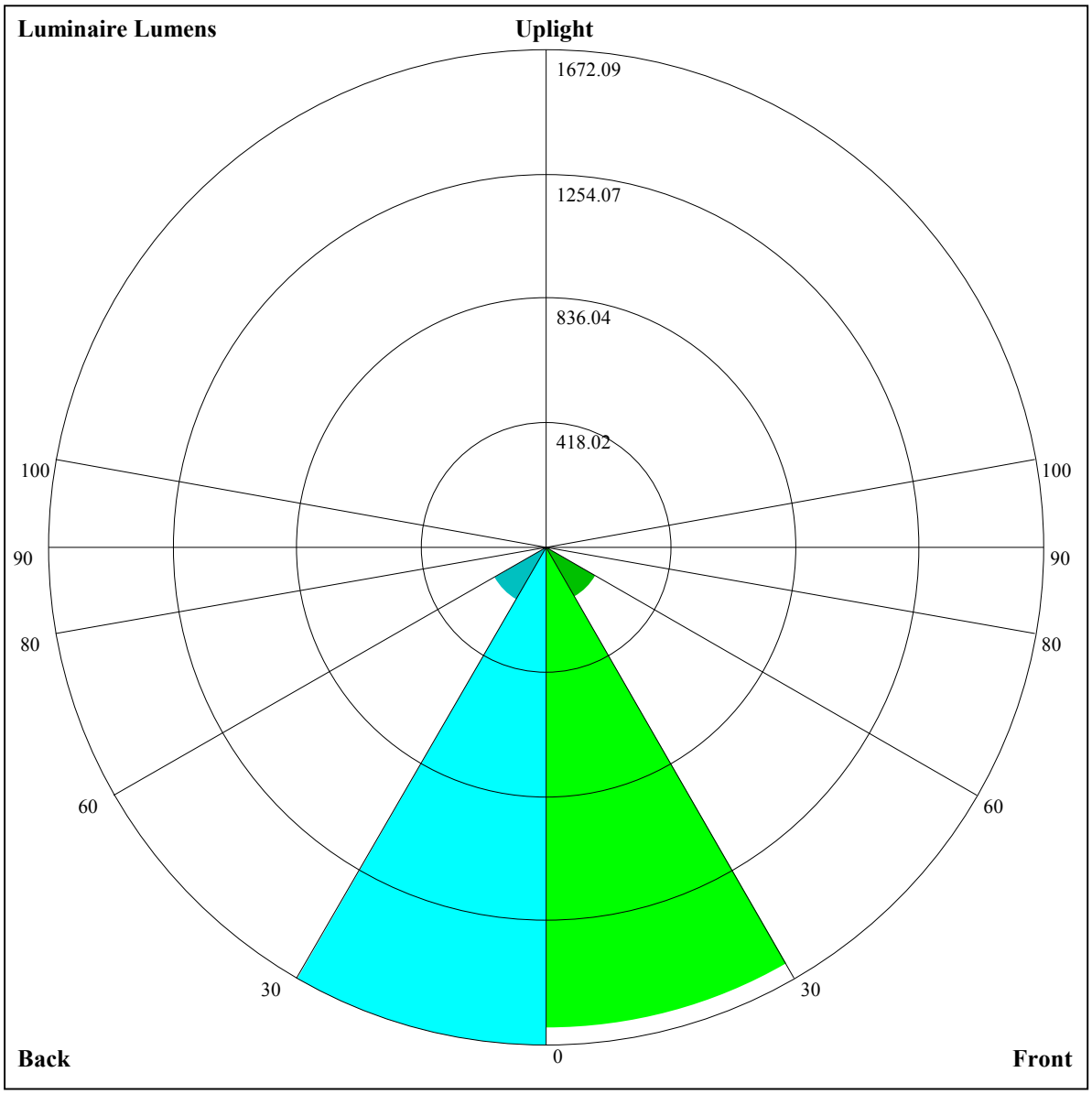
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=1614.17,FM=190.22,FH=15.8,FVH=1.97
BL=1672.09,BM=202.61,BH=17.15,BVH=2.07
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	11854.21	11709.35	10955.23	10955.23	10604.22	10111.71	9595.76	9246.43	8644.69
45.0	11993.50	11770.64	11430.77	11024.04	10517.02	9971.00	9374.84	8739.67	8082.22
90.0	11030.45	11030.45	10607.01	10010.27	9389.61	8697.04	8022.88	7334.78	6950.34
135.0	12032.50	11787.35	11586.77	11012.90	10511.45	10188.29	9603.27	8962.54	8293.94
180.0	11854.21	11904.36	11826.35	11653.63	11397.34	11057.47	10817.89	10149.29	9619.99
225.0	11993.50	12099.36	12099.36	12032.50	11870.93	10971.37	10971.37	10883.91	10420.88
270.0	11030.45	11999.07	12227.51	12311.08	12277.65	12166.22	11965.64	11692.63	11492.05
315.0	12032.50	12155.08	12171.79	12088.22	11909.93	11854.21	10960.81	10868.87	10386.93
360.0	11854.21	11709.35	10955.23	10955.23	10604.22	10111.71	9595.76	9246.43	8644.69

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7728.68	7336.46	6715.75	6103.45	5553.54	5036.49	4574.62	4150.02	3772.31
45.0	7447.06	6800.75	6187.87	5630.71	5140.40	4666.81	4237.80	3858.93	3519.06
90.0	6107.34	5769.73	5256.57	4794.70	4372.88	3978.98	3616.83	3300.93	3002.26
135.0	7608.63	6973.47	6377.30	5809.00	5296.41	4811.68	4377.09	3970.36	3608.21
180.0	9268.98	8377.52	7987.50	7341.19	6700.46	6098.72	5563.85	5045.68	4588.81
225.0	9887.69	9304.93	8688.69	8026.24	7338.67	6669.55	6019.30	5416.46	4862.66
270.0	10968.32	10472.45	10138.15	9558.70	8917.96	8266.08	7591.92	6906.61	6238.01
315.0	9844.22	9253.68	8742.72	7926.48	7238.38	6706.29	6067.82	5478.85	4949.55
360.0	7728.68	7336.46	6715.75	6103.45	5553.54	5036.49	4574.62	4150.02	3772.31

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3427.39	3110.39	2822.34	2544.87	2299.14	2097.45	1907.44	1704.08	1502.97
45.0	3207.05	2961.90	2900.61	2783.60	2205.52	2015.56	1830.02	1629.44	1433.85
90.0	2719.27	2459.61	2235.06	2043.95	1856.77	1665.07	1452.25	1090.15	1090.15
135.0	3279.48	2973.04	2850.46	2572.15	2237.85	2040.63	1851.20	1648.94	1456.14
180.0	4165.37	3775.35	3424.34	3106.76	2917.32	2917.32	2265.71	2050.10	1896.30
225.0	4473.17	3936.67	3540.50	3252.46	2861.34	2618.40	2344.29	2081.84	1862.34
270.0	5619.56	5073.54	4560.95	4104.08	3702.92	3329.62	3000.90	2817.03	2817.03
315.0	4476.54	4035.80	3635.80	3279.22	2956.06	2654.62	2377.14	2128.10	1921.95
360.0	3427.39	3110.39	2822.34	2544.87	2299.14	2097.45	1907.44	1704.08	1502.97

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1070.38	1070.38	1003.16	840.11	692.88	558.00	434.53	327.52	249.72
45.0	1242.79	1067.81	903.44	750.80	664.97	482.79	369.67	312.33	312.33
90.0	954.69	798.79	654.04	518.79	399.32	301.71	236.95	205.10	183.97
135.0	1265.60	1088.99	922.94	766.94	622.08	490.62	372.46	313.43	313.43
180.0	1650.62	1494.04	1305.18	1129.67	966.41	810.99	663.34	525.15	399.79
225.0	1664.55	1474.01	1063.13	1063.13	964.00	815.14	676.22	548.91	476.37
270.0	2164.31	1983.81	1780.98	1580.97	1383.18	1198.21	1028.81	875.06	722.37
315.0	1725.84	1530.83	1103.60	1070.17	1070.17	910.65	759.21	617.98	485.05
360.0	1070.38	1070.38	1003.16	840.11	692.88	558.00	434.53	327.52	249.72

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	210.72	185.65	163.89	146.33	130.51	116.48	104.07	93.30	83.84
45.0	200.32	177.56	159.05	141.81	126.47	112.43	101.13	91.30	81.58
90.0	165.57	149.07	133.88	120.47	108.49	98.03	88.83	83.84	73.53
135.0	192.90	175.66	157.06	141.13	126.73	114.27	103.02	93.30	84.63
180.0	299.50	299.50	202.42	179.29	159.84	143.08	128.20	120.21	108.02
225.0	367.73	260.29	231.17	203.05	180.71	162.05	145.44	130.30	117.53
270.0	582.55	451.62	338.50	318.42	318.42	177.82	166.15	149.12	127.36
315.0	370.36	277.21	215.14	186.96	167.10	148.17	132.46	118.53	106.39
360.0	210.72	185.65	163.89	146.33	130.51	116.48	104.07	93.30	83.84

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	75.32	70.80	61.92	58.61	53.56	49.20	45.62	42.47	39.79
45.0	73.53	66.70	60.71	55.40	51.67	48.30	46.26	43.21	40.79
90.0	67.33	63.97	58.98	53.35	51.09	47.62	44.94	42.31	40.00
135.0	77.11	70.43	64.70	59.66	55.35	51.62	48.36	45.62	43.21
180.0	97.08	87.62	79.42	72.43	66.07	60.87	56.35	52.35	49.25
225.0	105.18	94.82	86.10	78.37	71.49	66.18	60.76	56.08	51.93
270.0	119.00	106.65	95.51	85.83	77.42	69.96	63.34	57.77	53.19
315.0	95.72	85.89	77.63	70.17	63.55	59.08	53.25	49.83	45.99
360.0	75.32	70.80	61.92	58.61	53.56	49.20	45.62	42.47	39.79

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	37.53	35.43	33.43	31.70	29.80	27.86	26.12	24.39	22.50
45.0	38.48	36.06	34.22	32.01	30.01	28.02	26.07	24.07	22.23
90.0	37.74	35.48	33.06	30.85	28.70	26.44	24.60	22.81	21.03
135.0	40.84	38.42	36.43	34.11	32.69	30.38	27.49	26.23	24.39
180.0	46.31	43.73	41.79	39.63	37.58	35.85	33.69	31.27	29.59
225.0	49.30	46.10	43.47	41.73	39.79	38.21	36.53	34.64	32.80
270.0	49.25	45.57	42.79	40.47	38.58	37.32	36.16	35.22	33.80
315.0	42.89	40.05	37.63	35.85	34.06	32.17	30.85	29.44	27.81
360.0	37.53	35.43	33.43	31.70	29.80	27.86	26.12	24.39	22.50

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.03	19.66	18.13	16.77	16.08	14.72	13.98	13.04	12.04
45.0	20.71	19.19	17.71	16.40	15.30	14.09	12.98	12.40	11.14
90.0	19.40	17.87	16.45	15.14	14.35	12.62	11.51	10.78	9.72
135.0	22.71	20.97	19.34	17.98	16.71	15.30	14.03	12.98	11.98
180.0	27.33	25.60	23.71	21.71	20.50	18.98	17.71	16.40	15.19
225.0	30.70	29.65	27.28	25.44	23.71	22.29	20.39	18.29	17.14
270.0	32.54	31.17	29.07	27.81	26.07	24.13	22.50	20.92	19.40
315.0	26.18	24.81	23.34	21.87	20.60	19.45	18.29	17.24	16.61
360.0	21.03	19.66	18.13	16.77	16.08	14.72	13.98	13.04	12.04

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.14	10.41	9.57	8.73	7.94	7.31	6.62	5.89	5.31
45.0	10.46	9.62	8.78	7.99	7.31	6.57	5.94	5.31	4.73
90.0	8.73	7.78	6.89	6.25	5.68	5.05	4.57	4.10	3.63
135.0	10.88	9.88	8.94	7.99	7.25	6.89	5.99	5.68	5.05
180.0	14.03	12.98	11.77	10.72	9.72	8.73	7.88	7.31	6.62
225.0	15.93	14.56	12.93	12.09	10.41	9.36	8.88	7.67	7.31
270.0	17.87	16.56	15.40	14.14	12.88	11.67	10.57	9.46	8.62
315.0	14.98	14.14	12.93	11.77	10.78	9.78	8.88	8.09	7.41
360.0	11.14	10.41	9.57	8.73	7.94	7.31	6.62	5.89	5.31

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.84	4.31	3.78	3.26	2.89	2.63	2.21	1.94	1.52
45.0	4.21	3.73	3.15	2.73	2.37	2.05	1.68	1.52	1.52
90.0	3.21	2.84	2.42	2.21	2.05	1.68	1.52	1.42	1.42
135.0	4.57	3.99	3.57	3.05	2.73	2.37	2.05	1.68	1.58
180.0	5.94	5.31	4.78	4.31	3.68	3.31	2.89	2.52	2.26
225.0	6.68	5.89	5.47	4.94	4.31	3.78	3.36	3.00	2.63
270.0	7.88	7.31	6.57	5.83	5.31	4.73	4.26	3.73	3.31
315.0	6.78	5.99	5.57	4.99	4.52	4.05	3.57	3.15	2.73
360.0	4.84	4.31	3.78	3.26	2.89	2.63	2.21	1.94	1.52

Intensity data(cd)

C/γ(°)	90.0
0.0	1.52
45.0	1.42
90.0	1.42
135.0	1.52
180.0	1.89
225.0	2.42
270.0	3.00
315.0	2.52
360.0	1.52