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: 2-2759-L
Luminaire: 92.70.411.00
Report No: 2024829-B015
Ballast type: AC

Test No: 2024829-C015	Voltage(V): 35.070
LampCAT: Fortimo_SLM_C_1208	Current(A): 0.598
Lamp flux(lm): 3408.0	Power (W): 20.970
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3186.83, Efficiency(%): 93.51% , Luminous Efficacy(lm/W): 151.97
Central intensity(cd): 6570.641, Maximum intensity(cd): 6570.641
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=38.2
[C90/270]Total=38.2
Field angle(10%Imax): [C0/180]Total=69.0
[C90/270]Total=69.0
Maximum s/h(1/2): C0_180=0.61 C90_270=0.61
Maximum s/h(1/4): C0_180=0.65 C90_270=0.65
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.51%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.324%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6570.641	0.000	0	0.00%	0.00%
1.0	6558.722	6.282	6.282	0.18%	0.20%
2.0	6519.728	18.771	25.054	0.55%	0.79%
3.0	6459.688	31.042	56.096	0.91%	1.76%
4.0	6383.078	42.989	99.085	1.26%	3.11%
5.0	6275.969	54.459	153.543	1.60%	4.82%
6.0	6147.815	65.290	218.834	1.92%	6.87%
7.0	5991.258	75.347	294.181	2.21%	9.23%
8.0	5805.088	84.424	378.605	2.48%	11.88%
9.0	5621.586	92.607	471.212	2.72%	14.79%
10.0	5409.233	99.825	571.037	2.93%	17.92%
11.0	5183.720	105.845	676.882	3.11%	21.24%
12.0	4953.056	110.809	787.692	3.25%	24.72%
13.0	4718.279	114.774	902.466	3.37%	28.32%
14.0	4487.136	117.829	1020.295	3.46%	32.02%
15.0	4241.209	119.827	1140.121	3.52%	35.78%
16.0	4009.277	120.893	1261.014	3.55%	39.57%
17.0	3769.776	121.141	1382.155	3.55%	43.37%
18.0	3526.504	120.300	1502.454	3.53%	47.15%
19.0	3321.470	119.141	1621.595	3.50%	50.88%
20.0	3077.147	117.112	1738.708	3.44%	54.56%
21.0	2875.951	114.312	1853.019	3.35%	58.15%
22.0	2668.191	111.412	1964.431	3.27%	61.64%
23.0	2479.879	108.020	2072.451	3.17%	65.03%
24.0	2295.247	104.401	2176.853	3.06%	68.31%
25.0	2131.856	100.663	2277.515	2.95%	71.47%
26.0	1954.537	96.460	2373.975	2.83%	74.49%
27.0	1799.017	91.832	2465.807	2.69%	77.37%
28.0	1610.298	86.317	2552.123	2.53%	80.08%
29.0	1485.745	81.001	2633.125	2.38%	82.63%
30.0	1327.091	75.946	2709.071	2.23%	85.01%
31.0	1162.669	69.286	2778.357	2.03%	87.18%
32.0	992.038	61.730	2840.087	1.81%	89.12%
33.0	859.581	54.549	2894.636	1.60%	90.83%
34.0	717.872	47.738	2942.375	1.40%	92.33%
35.0	586.098	40.497	2982.871	1.19%	93.60%
36.0	470.658	33.647	3016.518	0.99%	94.66%
37.0	377.064	27.648	3044.166	0.81%	95.52%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	284.035	22.067	3066.233	0.65%	96.22%
39.0	205.835	16.721	3082.954	0.49%	96.74%
40.0	156.636	12.642	3095.595	0.37%	97.14%
41.0	136.814	10.450	3106.045	0.31%	97.47%
42.0	92.655	8.337	3114.382	0.24%	97.73%
43.0	70.499	6.044	3120.426	0.18%	97.92%
44.0	61.761	4.992	3125.417	0.15%	98.07%
45.0	54.067	4.451	3129.869	0.13%	98.21%
46.0	47.845	3.986	3133.854	0.12%	98.34%
47.0	42.668	3.600	3137.454	0.11%	98.45%
48.0	38.187	3.269	3140.723	0.10%	98.55%
49.0	34.231	2.974	3143.697	0.09%	98.65%
50.0	30.808	2.712	3146.408	0.08%	98.73%
51.0	27.924	2.485	3148.893	0.07%	98.81%
52.0	25.480	2.292	3151.185	0.07%	98.88%
53.0	23.430	2.128	3153.312	0.06%	98.95%
54.0	21.702	1.989	3155.302	0.06%	99.01%
55.0	20.361	1.878	3157.179	0.06%	99.07%
56.0	18.988	1.778	3158.957	0.05%	99.13%
57.0	17.937	1.688	3160.646	0.05%	99.18%
58.0	16.925	1.612	3162.258	0.05%	99.23%
59.0	16.045	1.541	3163.799	0.05%	99.28%
60.0	15.263	1.479	3165.278	0.04%	99.32%
61.0	14.396	1.415	3166.694	0.04%	99.37%
62.0	13.679	1.353	3168.046	0.04%	99.41%
63.0	13.088	1.302	3169.348	0.04%	99.45%
64.0	12.424	1.252	3170.6	0.04%	99.49%
65.0	11.767	1.197	3171.797	0.04%	99.53%
66.0	11.117	1.142	3172.939	0.03%	99.56%
67.0	10.506	1.087	3174.026	0.03%	99.60%
68.0	9.888	1.033	3175.06	0.03%	99.63%
69.0	9.363	0.982	3176.042	0.03%	99.66%
70.0	8.988	0.942	3176.984	0.03%	99.69%
71.0	8.627	0.910	3177.895	0.03%	99.72%
72.0	8.121	0.871	3178.765	0.03%	99.75%
73.0	7.497	0.817	3179.582	0.02%	99.77%
74.0	6.892	0.756	3180.339	0.02%	99.80%
75.0	6.248	0.694	3181.033	0.02%	99.82%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.848	0.642	3181.675	0.02%	99.84%
77.0	5.394	0.599	3182.274	0.02%	99.86%
78.0	5.000	0.556	3182.831	0.02%	99.87%
79.0	4.632	0.518	3183.348	0.02%	99.89%
80.0	4.271	0.480	3183.828	0.01%	99.91%
81.0	3.922	0.443	3184.271	0.01%	99.92%
82.0	3.581	0.407	3184.678	0.01%	99.93%
83.0	3.246	0.371	3185.049	0.01%	99.94%
84.0	2.930	0.336	3185.386	0.01%	99.95%
85.0	2.668	0.306	3185.691	0.01%	99.96%
86.0	2.398	0.277	3185.968	0.01%	99.97%
87.0	2.155	0.249	3186.217	0.01%	99.98%
88.0	1.945	0.225	3186.442	0.01%	99.99%
89.0	1.728	0.201	3186.643	0.01%	99.99%
90.0	1.629	0.184	3186.827	0.01%	100.00%

Zonal flux distribution table

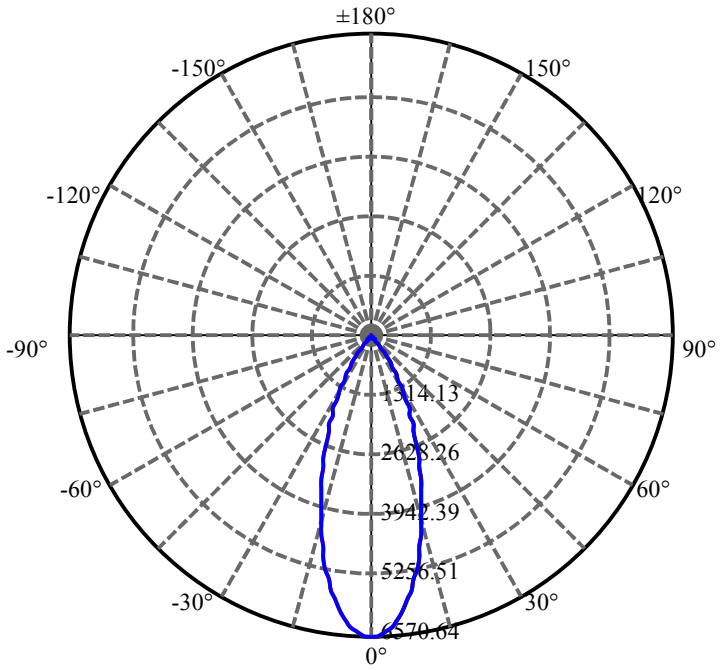
ZONAL LUMEN SUMMARY

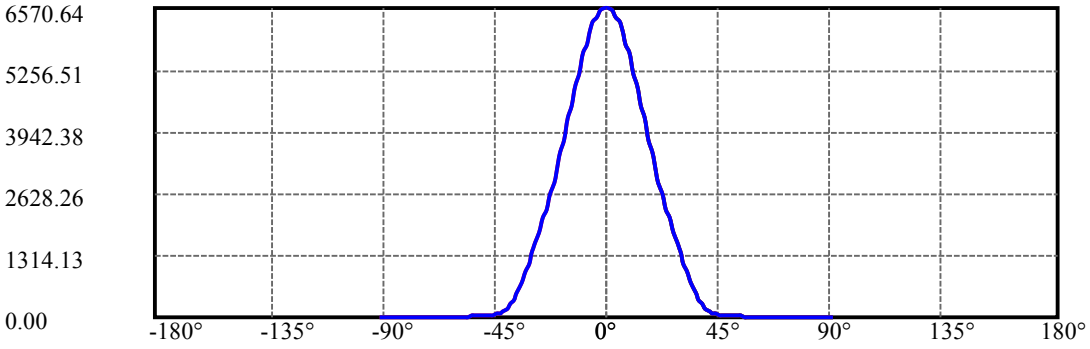
Zone	Lumens	%Lamp	%Fixt
0-30	2709.07	79.49%	85.01%
0-40	3095.60	90.83%	97.14%
0-60	3165.28	92.88%	99.32%
0-90	3186.64	93.50%	99.99%
0-120	3186.64	93.50%	99.99%
0-180	3186.83	93.51%	100.00%
60-90	21.36	0.63%	0.67%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.97	2549.46	74.81%	80.00%

ZONAL LUMEN SUMMARY

0-10	571.04
10-20	1167.67
20-30	970.36
30-40	386.52
40-50	50.81
50-60	18.87
60-70	11.71
70-80	6.84
80-90	2.82
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):

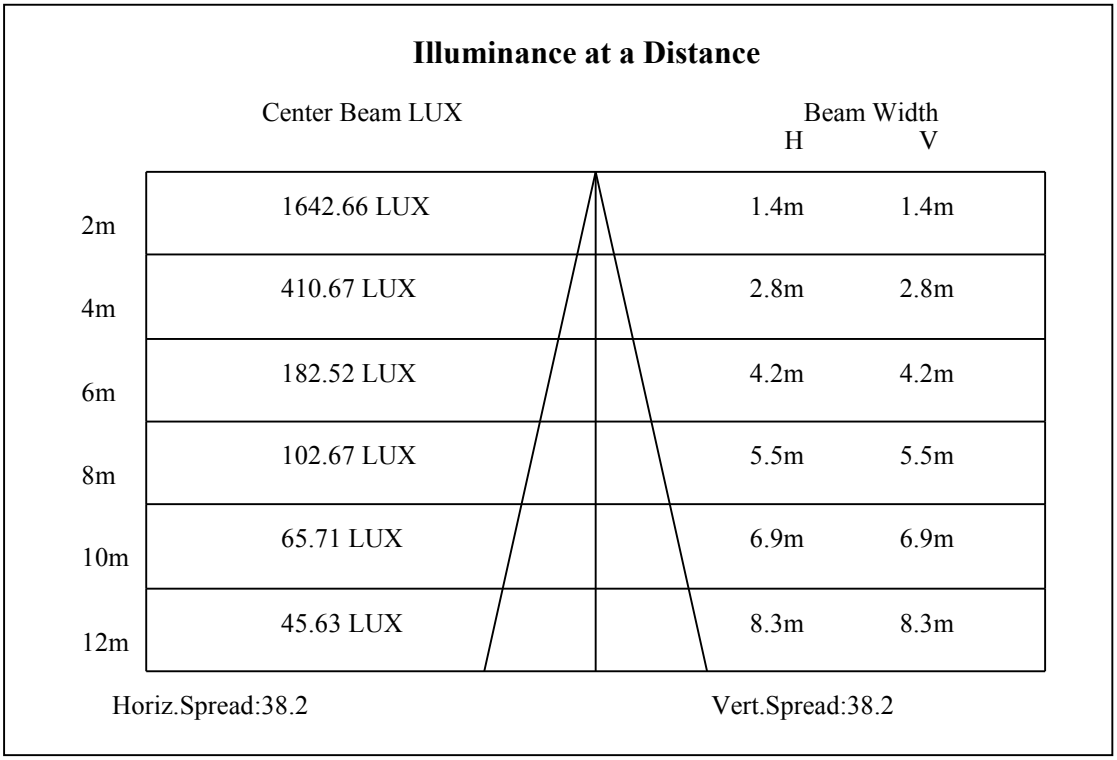
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:34.5 Right:34.5
:C90/270Left:34.5 Right:34.5

Beam Angle(50%Imax):C0/180Left:19.1 Right:19.1
:C90/270Left:19.1 Right:19.1

Lux distance Curve

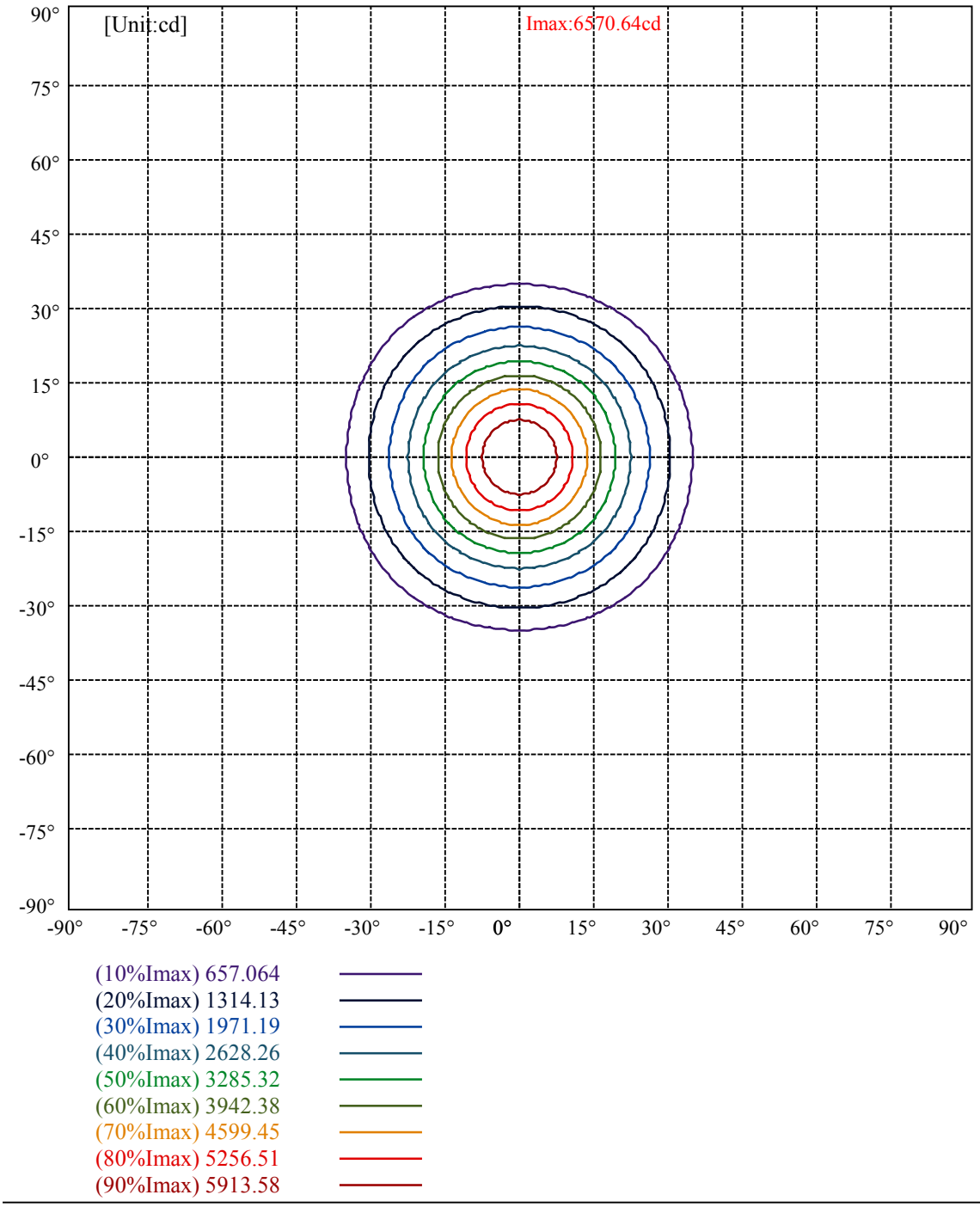


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/29
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)

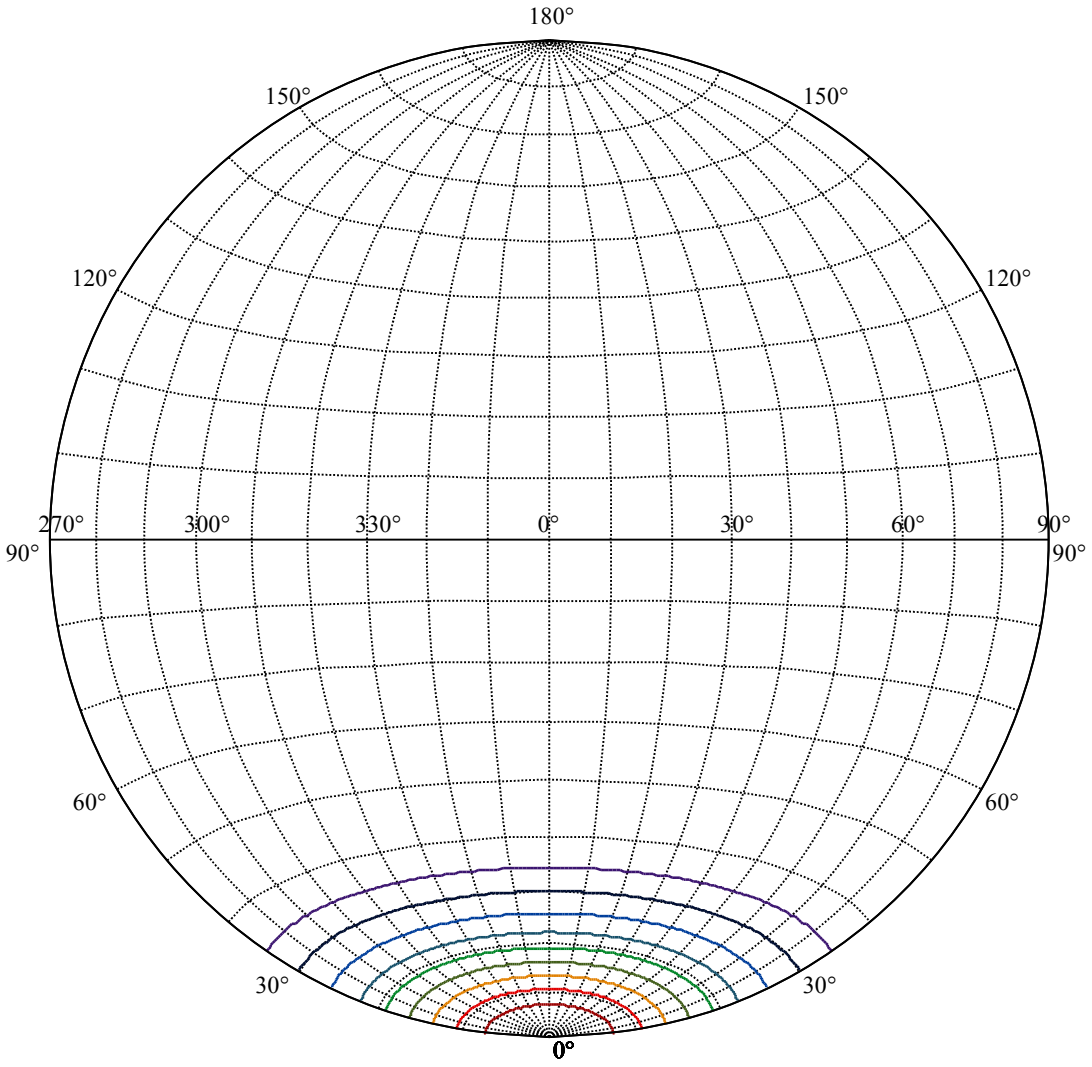


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/29
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:6570.64

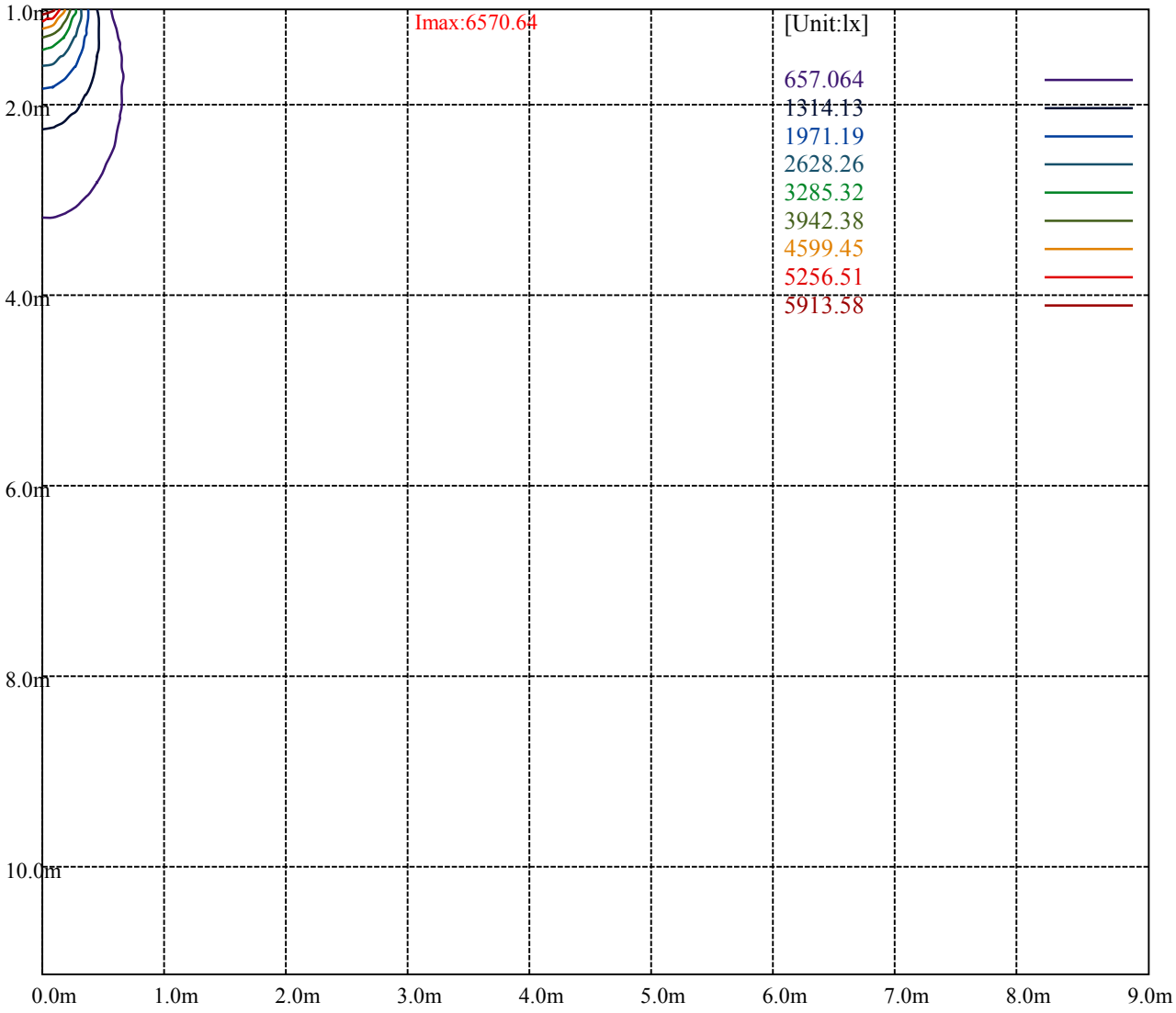
(10%Imax) 657.064
(20%Imax) 1314.13
(30%Imax) 1971.19
(40%Imax) 2628.26
(50%Imax) 3285.32
(60%Imax) 3942.38
(70%Imax) 4599.45
(80%Imax) 5256.51
(90%Imax) 5913.58

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/29
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/29
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2759-L

Luminance Limitting Curve(no luminous side)

Luminance Table

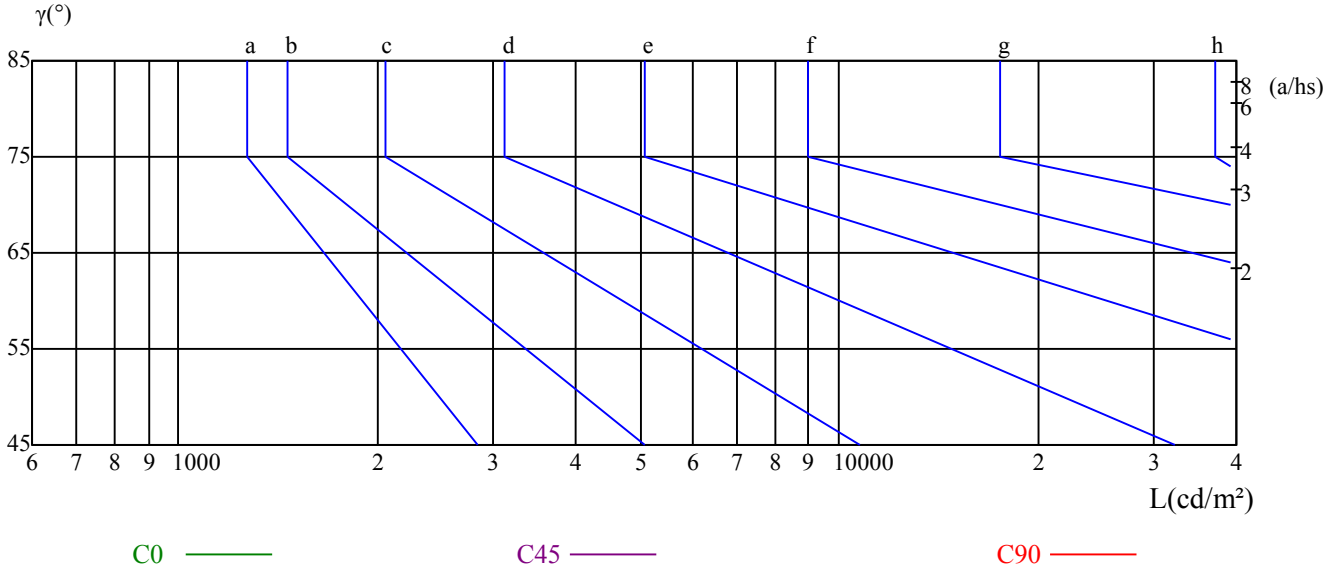
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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: 2024/8/29
Humidity(%): 60.0%

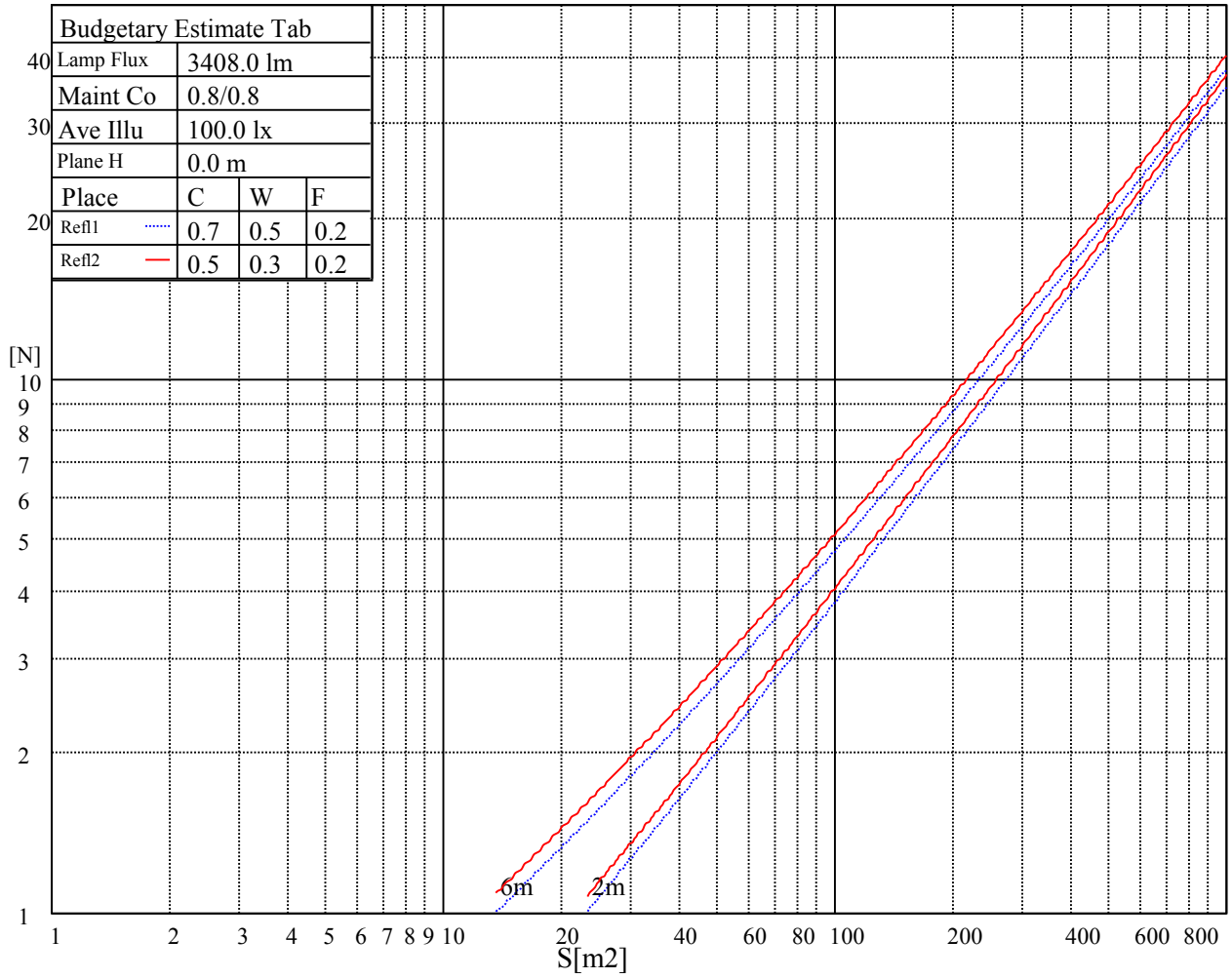
Operator: NT
Distance(m): 7.25

UGR Glare

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

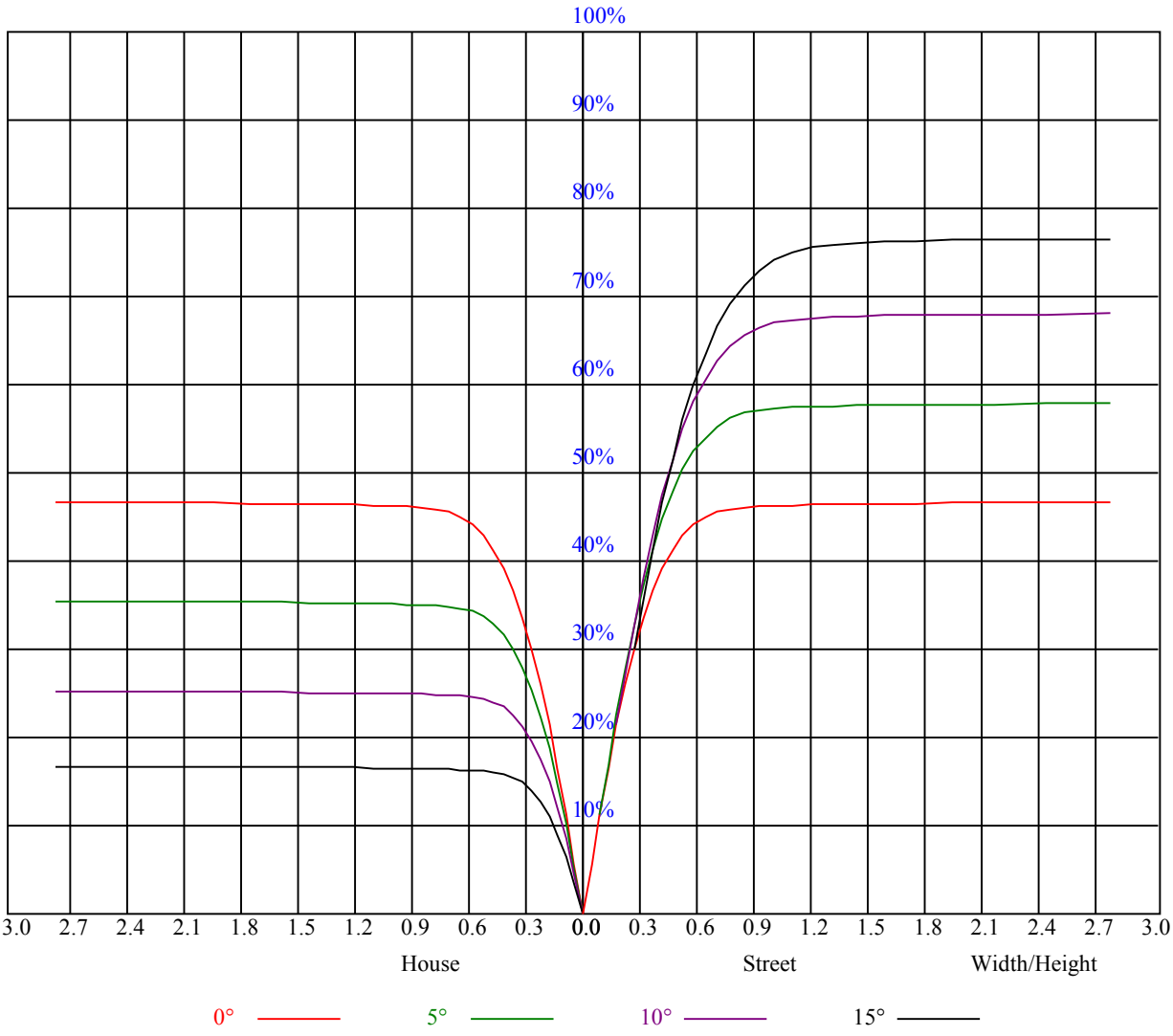
Date: 2024/8/29
Humidity(%): 60.0%

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	1.11	1.11	1.11	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.94
1	1.04	1.02	1.00	1.02	1.00	0.99	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89
2	0.98	0.95	0.92	0.97	0.93	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.85	0.84
3	0.93	0.88	0.85	0.91	0.88	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.82	0.81	0.79
4	0.88	0.83	0.80	0.87	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.71
6	0.79	0.74	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.69	0.68
7	0.75	0.70	0.67	0.75	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.65
8	0.72	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.62
9	0.69	0.64	0.60	0.68	0.64	0.60	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.59
10	0.66	0.61	0.58	0.65	0.61	0.58	0.65	0.60	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.56

Coefficient Utilization Curve

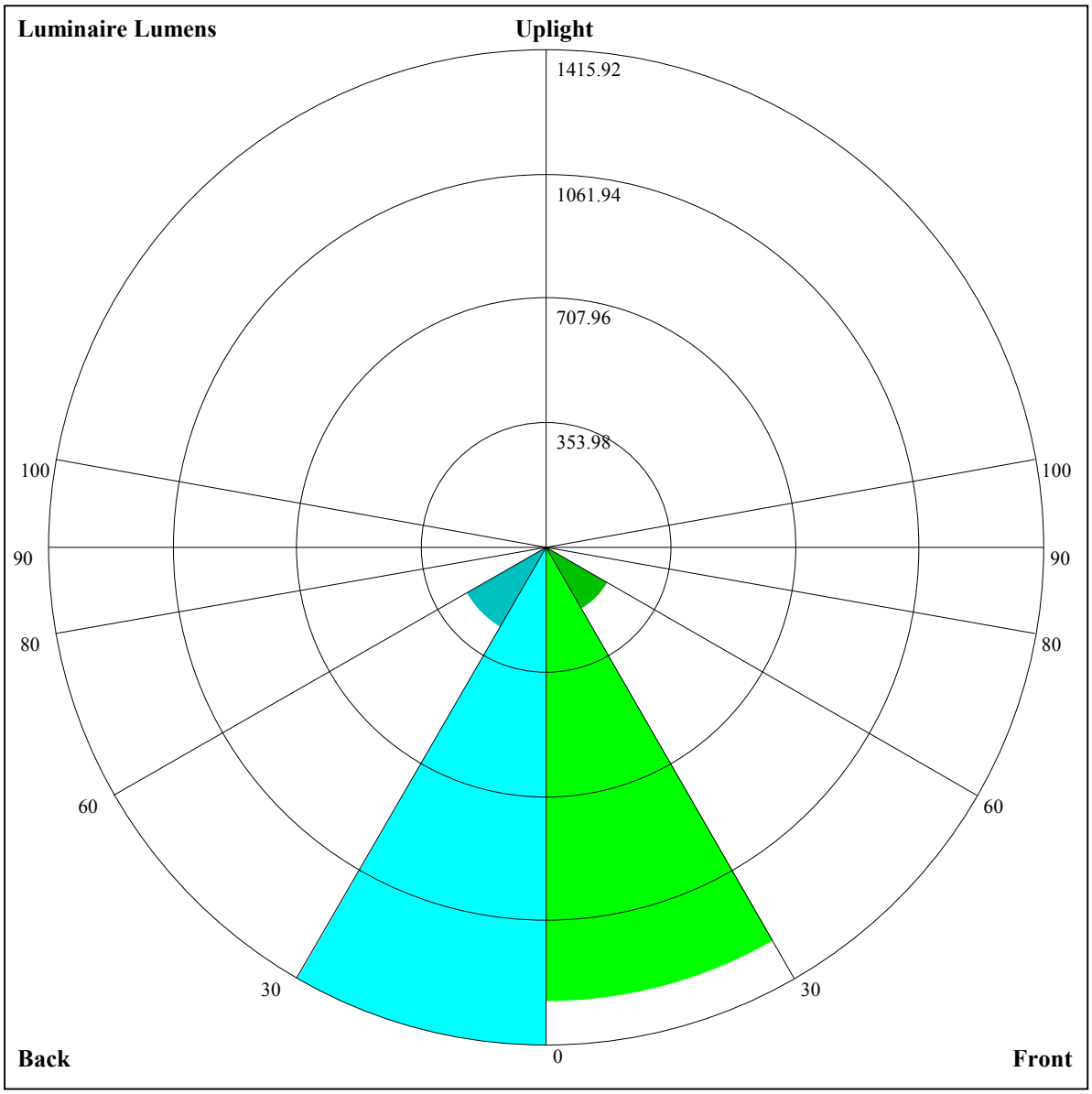


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/29
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

LCS Graph



Luminaire Lumens:

FL=1292.65,FM=204.74,FH=9.32,FVH=1.48

BL=1415.92,BM=262.35,BH=9.31,BVH=1.52

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	6551.97	6479.54	6388.18	6283.43	6148.03	5994.81	5815.41	5606.47	5383.61
45.0	6613.83	6555.33	6481.22	6375.36	6244.95	6091.21	5920.69	5711.23	5501.14
90.0	6519.12	6471.76	6333.57	6205.95	6109.60	5933.52	5736.30	5520.64	5294.99
135.0	6597.65	6570.89	6528.00	6466.19	6384.82	6287.89	6149.13	5989.81	5814.31
180.0	6551.97	6579.83	6598.22	6587.61	6554.18	6506.29	6426.03	6333.57	6198.17
225.0	6613.83	6634.44	6638.91	6611.57	6568.68	6491.26	6423.82	6307.92	6093.41
270.0	6519.12	6587.61	6625.50	6640.01	6627.76	6576.46	6506.29	6413.78	6296.78
315.0	6597.65	6590.39	6564.22	6507.40	6426.61	6326.32	6204.85	6046.63	5858.30
360.0	6551.97	6479.54	6388.18	6283.43	6148.03	5994.81	5815.41	5606.47	5383.61

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5172.99	4928.94	4689.94	4459.82	4220.24	3966.73	3727.73	3487.57	3245.21
45.0	5273.86	5058.77	4817.51	4569.05	4321.11	4134.46	3839.69	3645.79	3404.58
90.0	5084.42	4851.52	4616.41	4370.68	4132.20	3888.73	3650.83	3410.68	3168.31
135.0	5612.05	5393.65	5166.32	4932.83	4703.29	4465.39	4231.96	3982.87	3737.72
180.0	6035.49	5846.58	5630.97	5418.72	5191.39	4970.20	4732.25	4501.03	4253.09
225.0	5983.08	5784.77	5568.00	5327.89	5094.41	4857.09	4620.30	4379.61	4148.39
270.0	6158.06	5971.42	5762.48	5544.08	5318.43	5092.78	4848.15	4615.25	4382.92
315.0	5652.73	5438.22	5218.14	5001.37	4765.16	4521.69	4278.75	4051.41	3817.98
360.0	5172.99	4928.94	4689.94	4459.82	4220.24	3966.73	3727.73	3487.57	3245.21

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3009.52	2777.19	2553.22	2345.97	2169.31	2004.42	1854.51	1763.16	1555.32
45.0	3113.17	2925.94	2695.30	2477.43	2281.32	2104.71	1944.81	1796.59	1648.36
90.0	2938.77	2715.33	2510.86	2314.75	2145.92	1991.59	1839.48	1710.23	1545.86
135.0	3497.04	3259.14	3024.55	2885.26	2587.18	2467.97	2280.21	2042.84	1948.12
180.0	4006.84	3865.34	3612.94	3279.22	3139.93	2901.98	2685.84	2478.01	2289.68
225.0	3913.80	3676.43	3439.64	3204.00	3066.34	2757.69	2549.86	2427.28	2162.63
270.0	4157.27	4011.89	3673.65	3531.57	3302.61	3078.64	2867.44	2670.23	2472.43
315.0	3575.62	3340.50	3107.02	2969.41	2652.93	2532.04	2339.82	2166.52	2013.88
360.0	3009.52	2777.19	2553.22	2345.97	2169.31	2004.42	1854.51	1763.16	1555.32

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1460.61	1074.69	1074.69	981.76	830.07	690.04	554.85	432.90	320.68
45.0	1495.14	1334.72	1173.67	1015.98	860.55	714.59	578.08	452.14	337.40
90.0	1299.03	1108.39	1042.47	883.00	733.67	593.96	463.29	346.65	246.52
135.0	1802.74	1658.40	1494.61	1316.85	1141.34	974.77	820.97	674.48	543.55
180.0	2121.42	1962.63	1816.09	1675.69	1518.01	1349.17	1179.82	1015.98	859.45
225.0	2060.66	1903.03	1761.47	1611.04	1452.25	1052.93	1052.93	925.31	770.83
270.0	2297.45	2138.66	1985.44	1842.84	1691.83	1520.21	1344.71	1164.21	991.49
315.0	1855.09	1701.87	1537.51	1289.57	1073.64	1040.63	882.00	731.30	618.87
360.0	1460.61	1074.69	1074.69	981.76	830.07	690.04	554.85	432.90	320.68

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	222.81	147.65	104.34	87.57	72.17	64.44	57.45	49.99	45.41
45.0	316.22	316.22	125.47	94.72	80.89	70.12	61.76	54.61	48.04
90.0	171.35	122.68	96.77	82.79	76.53	63.92	59.66	53.09	46.99
135.0	419.29	305.60	305.60	128.52	90.62	77.74	67.33	59.34	53.25
180.0	715.11	579.76	452.14	337.92	295.03	295.03	111.75	87.36	74.90
225.0	624.50	494.14	383.50	323.42	197.48	134.51	112.75	87.36	78.84
270.0	831.01	680.58	540.18	414.25	321.79	300.03	194.64	106.12	88.31
315.0	464.97	369.88	264.28	177.50	118.58	88.73	75.90	66.12	58.34
360.0	222.81	147.65	104.34	87.57	72.17	64.44	57.45	49.99	45.41

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	40.37	35.85	31.96	28.86	26.02	23.76	21.76	20.08	18.71
45.0	42.47	37.37	33.06	29.28	26.12	23.60	21.50	19.66	18.50
90.0	42.00	37.79	34.11	31.12	28.44	26.28	24.39	22.76	21.34
135.0	47.78	42.89	38.37	34.48	31.27	28.49	26.23	24.23	22.55
180.0	64.60	57.45	51.30	45.52	40.47	35.85	32.06	28.91	26.07
225.0	67.70	59.76	52.93	47.04	41.52	36.85	32.80	29.38	26.54
270.0	75.37	65.12	58.08	51.93	46.47	41.37	37.06	33.38	30.22
315.0	52.25	46.52	41.52	37.27	33.53	30.28	27.60	25.44	23.50
360.0	40.37	35.85	31.96	28.86	26.02	23.76	21.76	20.08	18.71

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.50	16.35	15.51	14.88	14.24	13.61	13.09	12.62	12.25
45.0	17.14	16.35	15.61	15.03	14.56	14.09	13.51	12.98	12.46
90.0	20.08	18.98	17.98	17.03	16.24	15.35	14.51	13.98	13.04
135.0	21.18	19.92	18.76	17.61	16.61	15.98	15.09	14.03	13.56
180.0	23.81	22.71	20.29	18.87	18.08	16.29	15.61	14.51	13.61
225.0	24.34	22.39	20.66	19.13	17.77	16.56	15.87	14.56	13.82
270.0	27.70	25.55	23.71	22.76	20.81	19.92	18.76	17.50	16.45
315.0	21.87	20.66	19.40	18.19	17.08	16.56	15.66	14.98	14.24
360.0	17.50	16.35	15.51	14.88	14.24	13.61	13.09	12.62	12.25

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.98	11.46	10.83	10.46	10.20	10.09	10.20	10.35	10.35
45.0	12.14	11.62	11.09	10.57	10.30	9.62	9.51	9.88	10.35
90.0	12.30	11.46	10.46	9.78	9.04	8.36	7.73	7.36	6.94
135.0	12.98	12.35	11.62	10.83	10.14	9.51	8.83	8.30	7.83
180.0	12.83	12.14	11.46	10.88	10.25	9.51	8.94	8.41	7.88
225.0	13.35	12.46	12.19	11.46	10.72	10.20	9.46	8.83	8.30
270.0	15.51	14.82	14.09	13.35	12.56	11.67	10.83	10.09	9.30
315.0	13.61	13.09	12.40	11.62	10.83	10.14	9.41	8.67	8.04
360.0	11.98	11.46	10.83	10.46	10.20	10.09	10.20	10.35	10.35

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.25	7.88	6.62	5.78	5.31	4.94	4.52	4.05	3.78
45.0	10.14	9.15	7.99	6.15	5.62	5.05	4.47	4.15	3.84
90.0	6.73	6.36	5.89	5.26	4.78	4.26	3.89	3.47	3.10
135.0	7.46	7.04	6.73	6.47	6.10	5.68	5.26	4.99	4.73
180.0	7.41	6.99	6.68	6.25	6.04	5.47	5.15	4.94	4.36
225.0	7.73	7.25	6.83	6.47	6.04	5.68	5.20	4.84	4.47
270.0	8.57	7.99	7.52	7.10	6.73	6.25	5.94	5.57	5.10
315.0	7.67	7.31	6.89	6.52	6.15	5.83	5.57	5.05	4.78
360.0	9.25	7.88	6.62	5.78	5.31	4.94	4.52	4.05	3.78

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.57	3.21	2.94	2.68	2.47	2.26	2.10	1.89	1.84
45.0	3.42	3.00	2.79	2.52	2.37	2.16	1.89	1.73	1.84
90.0	2.84	2.63	2.31	2.16	1.94	1.79	1.58	1.58	1.52
135.0	4.21	3.94	3.63	3.15	2.84	2.68	2.42	2.10	1.31
180.0	4.15	3.78	3.42	3.00	2.68	2.31	2.05	1.84	1.58
225.0	4.10	3.84	3.31	3.00	2.73	2.37	2.16	1.94	1.73
270.0	4.84	4.36	3.89	3.63	3.15	2.84	2.52	2.26	2.00
315.0	4.26	3.89	3.68	3.31	3.15	2.79	2.52	2.21	2.00
360.0	3.57	3.21	2.94	2.68	2.47	2.26	2.10	1.89	1.84

Intensity data(cd)

C/γ(°)	90.0
0.0	1.89
45.0	1.79
90.0	1.58
135.0	1.26
180.0	1.42
225.0	1.52
270.0	1.73
315.0	1.84
360.0	1.89