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: 2-2756-L
Luminaire: 92.70.411.00
Report No: 2024830-B004
Ballast type: AC

Test No: 2024830-C004	Voltage(V): 35.020
LampCAT: Fortimo_SLM_C_1208	Current(A): 0.598
Lamp flux(lm): 3409.0	Power (W): 20.940
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3152.68, Efficiency(%): 92.48% , Luminous Efficacy(lm/W): 150.56
Central intensity(cd): 6643.348, Maximum intensity(cd): 6643.348
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=37.8
[C90/270]Total=37.8
Field angle(10%Imax): [C0/180]Total=67.4
[C90/270]Total=67.4
Maximum s/h(1/2): C0_180=0.60 C90_270=0.60
Maximum s/h(1/4): C0_180=0.64 C90_270=0.64
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.48%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.326%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6643.348	0.000	0	0.00%	0.00%
1.0	6630.950	6.352	6.352	0.19%	0.20%
2.0	6589.715	18.976	25.327	0.56%	0.80%
3.0	6520.273	31.355	56.682	0.92%	1.80%
4.0	6433.565	43.361	100.042	1.27%	3.17%
5.0	6302.290	54.789	154.831	1.61%	4.91%
6.0	6163.978	65.514	220.345	1.92%	6.99%
7.0	5998.912	75.495	295.84	2.21%	9.38%
8.0	5802.158	84.458	380.298	2.48%	12.06%
9.0	5606.881	92.464	472.762	2.71%	15.00%
10.0	5385.554	99.478	572.239	2.92%	18.15%
11.0	5159.062	105.362	677.602	3.09%	21.49%
12.0	4929.232	110.280	787.881	3.23%	24.99%
13.0	4692.649	114.187	902.069	3.35%	28.61%
14.0	4454.120	117.078	1019.147	3.43%	32.33%
15.0	4215.368	119.019	1138.165	3.49%	36.10%
16.0	3978.442	120.062	1258.227	3.52%	39.91%
17.0	3733.560	120.097	1378.324	3.52%	43.72%
18.0	3524.973	119.677	1498.001	3.51%	47.52%
19.0	3303.159	118.796	1616.797	3.48%	51.28%
20.0	3065.931	116.572	1733.369	3.42%	54.98%
21.0	2862.015	113.829	1847.198	3.34%	58.59%
22.0	2664.853	111.065	1958.262	3.26%	62.11%
23.0	2475.273	107.854	2066.116	3.16%	65.54%
24.0	2279.570	103.958	2170.074	3.05%	68.83%
25.0	2113.118	99.880	2269.954	2.93%	72.00%
26.0	1914.845	95.081	2365.035	2.79%	75.02%
27.0	1727.151	89.102	2454.137	2.61%	77.84%
28.0	1545.981	82.869	2537.006	2.43%	80.47%
29.0	1395.377	76.954	2613.96	2.26%	82.91%
30.0	1211.480	70.385	2684.344	2.06%	85.14%
31.0	1034.259	62.496	2746.84	1.83%	87.13%
32.0	903.898	55.526	2802.366	1.63%	88.89%
33.0	761.670	49.068	2851.434	1.44%	90.44%
34.0	630.803	42.140	2893.575	1.24%	91.78%
35.0	520.927	35.768	2929.343	1.05%	92.92%
36.0	427.070	30.184	2959.528	0.89%	93.87%
37.0	354.902	25.504	2985.031	0.75%	94.68%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	304.225	22.001	3007.032	0.65%	95.38%
39.0	247.826	18.843	3025.875	0.55%	95.98%
40.0	205.874	15.823	3041.698	0.46%	96.48%
41.0	177.431	13.649	3055.348	0.40%	96.91%
42.0	143.476	11.659	3067.007	0.34%	97.28%
43.0	111.124	9.431	3076.438	0.28%	97.58%
44.0	89.875	7.586	3084.024	0.22%	97.82%
45.0	74.862	6.331	3090.355	0.19%	98.02%
46.0	62.379	5.367	3095.722	0.16%	98.19%
47.0	52.773	4.580	3100.302	0.13%	98.34%
48.0	45.361	3.967	3104.269	0.12%	98.46%
49.0	39.619	3.490	3107.759	0.10%	98.58%
50.0	35.125	3.116	3110.875	0.09%	98.67%
51.0	31.485	2.818	3113.694	0.08%	98.76%
52.0	28.502	2.574	3116.268	0.08%	98.85%
53.0	25.940	2.368	3118.636	0.07%	98.92%
54.0	23.909	2.197	3120.833	0.06%	98.99%
55.0	21.965	2.048	3122.881	0.06%	99.05%
56.0	20.296	1.910	3124.79	0.06%	99.12%
57.0	19.041	1.799	3126.589	0.05%	99.17%
58.0	17.648	1.697	3128.286	0.05%	99.23%
59.0	16.708	1.606	3129.892	0.05%	99.28%
60.0	15.624	1.528	3131.419	0.04%	99.33%
61.0	14.757	1.450	3132.869	0.04%	99.37%
62.0	13.850	1.378	3134.248	0.04%	99.42%
63.0	13.114	1.311	3135.559	0.04%	99.46%
64.0	12.385	1.251	3136.81	0.04%	99.50%
65.0	11.708	1.192	3138.003	0.03%	99.53%
66.0	11.130	1.139	3139.142	0.03%	99.57%
67.0	10.526	1.089	3140.231	0.03%	99.61%
68.0	9.974	1.038	3141.269	0.03%	99.64%
69.0	9.461	0.991	3142.261	0.03%	99.67%
70.0	8.903	0.943	3143.204	0.03%	99.70%
71.0	8.410	0.895	3144.099	0.03%	99.73%
72.0	7.937	0.850	3144.949	0.02%	99.75%
73.0	7.464	0.805	3145.754	0.02%	99.78%
74.0	6.971	0.759	3146.513	0.02%	99.80%
75.0	6.557	0.715	3147.228	0.02%	99.83%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.104	0.672	3147.9	0.02%	99.85%
77.0	5.604	0.624	3148.524	0.02%	99.87%
78.0	5.184	0.578	3149.102	0.02%	99.89%
79.0	4.665	0.529	3149.631	0.02%	99.90%
80.0	4.258	0.481	3150.112	0.01%	99.92%
81.0	3.804	0.436	3150.548	0.01%	99.93%
82.0	3.364	0.389	3150.937	0.01%	99.94%
83.0	2.930	0.342	3151.279	0.01%	99.96%
84.0	2.569	0.300	3151.578	0.01%	99.97%
85.0	2.214	0.261	3151.839	0.01%	99.97%
86.0	1.899	0.225	3152.064	0.01%	99.98%
87.0	1.590	0.191	3152.255	0.01%	99.99%
88.0	1.367	0.162	3152.417	0.00%	99.99%
89.0	1.183	0.140	3152.557	0.00%	100.00%
90.0	1.084	0.124	3152.681	0.00%	100.00%

Zonal flux distribution table

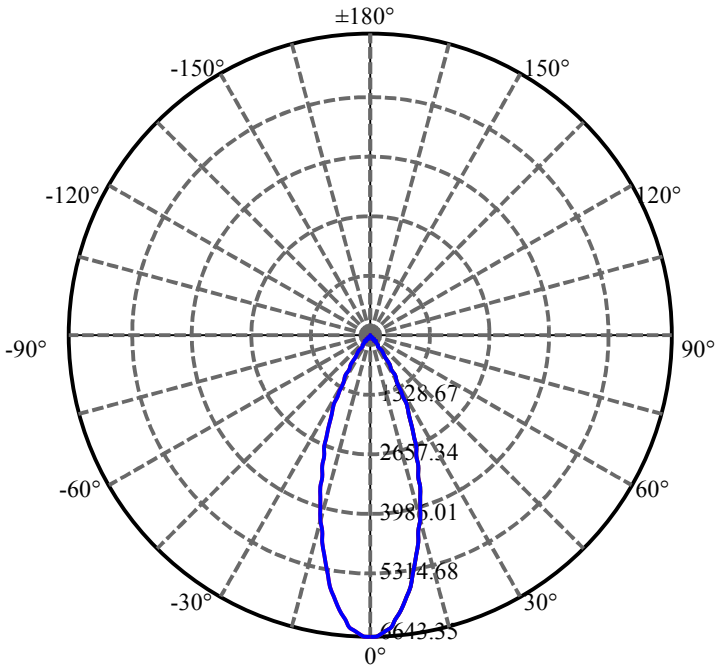
ZONAL LUMEN SUMMARY

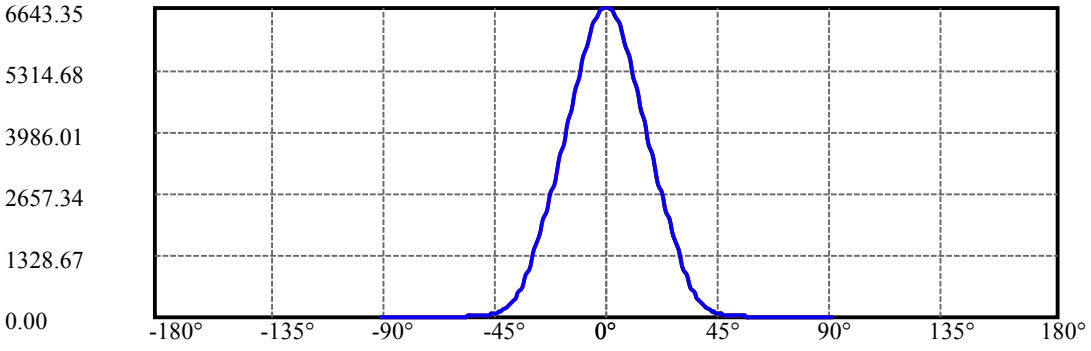
Zone	Lumens	%Lamp	%Fixt
0-30	2684.34	78.74%	85.14%
0-40	3041.70	89.23%	96.48%
0-60	3131.42	91.86%	99.33%
0-90	3152.56	92.48%	100.00%
0-120	3152.56	92.48%	100.00%
0-180	3152.68	92.48%	100.00%
60-90	21.14	0.62%	0.67%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.82	2522.15	73.98%	80.00%

ZONAL LUMEN SUMMARY

0-10	572.24
10-20	1161.13
20-30	950.98
30-40	357.35
40-50	69.18
50-60	20.54
60-70	11.78
70-80	6.91
80-90	2.44
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:33.7 Right:33.7
:C90/270Left:33.7 Right:33.7

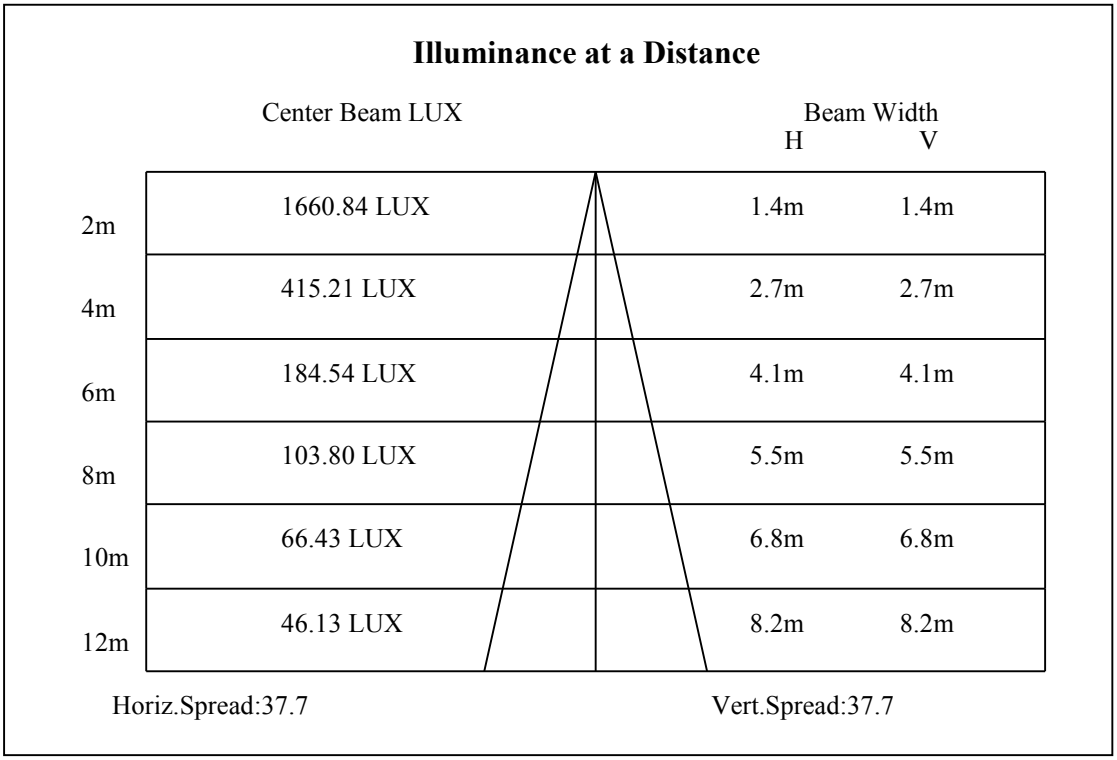
Beam Angle(50%Imax):C0/180Left:18.9 Right:18.9
:C90/270Left:18.9 Right:18.9

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Lux distance Curve

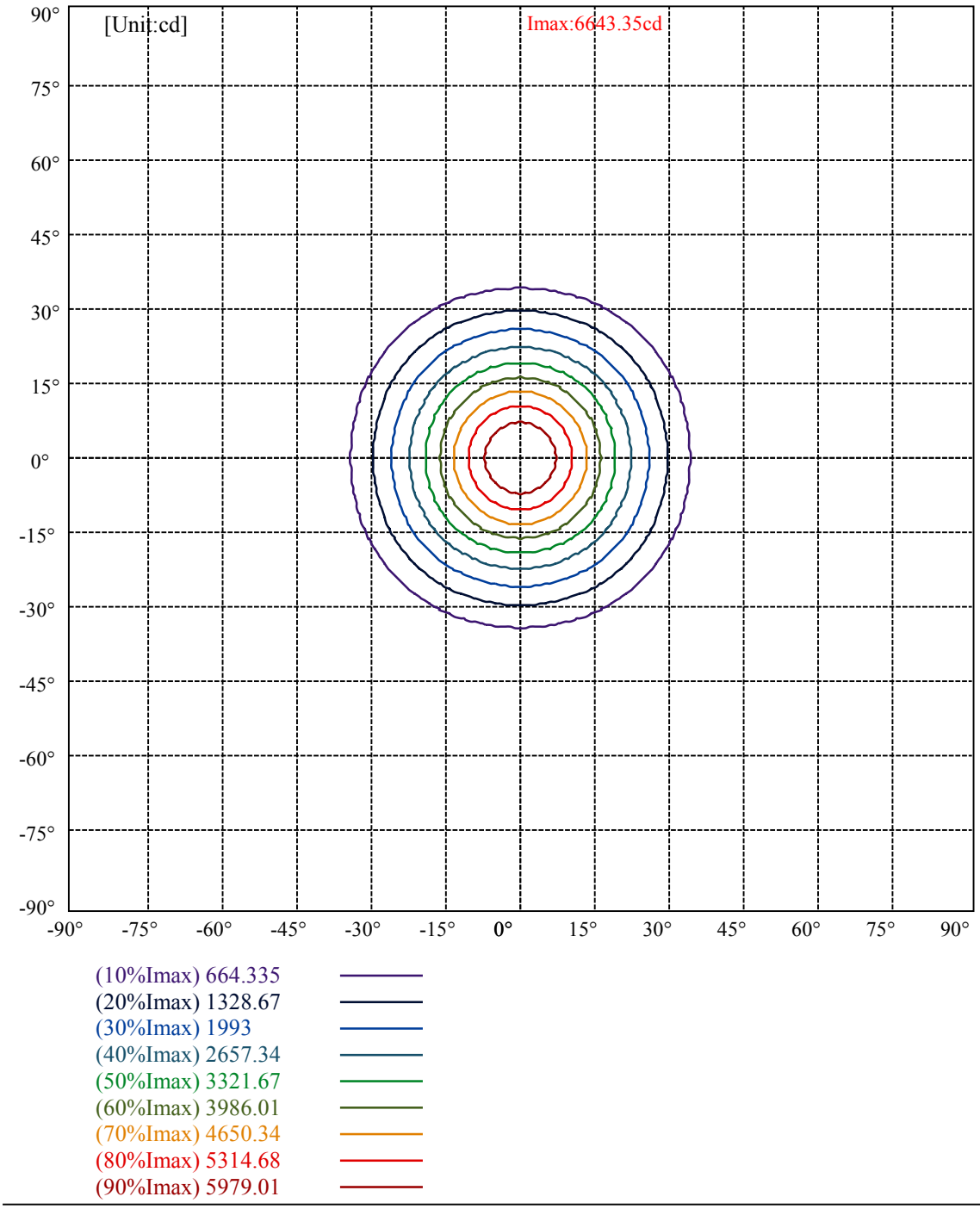


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)

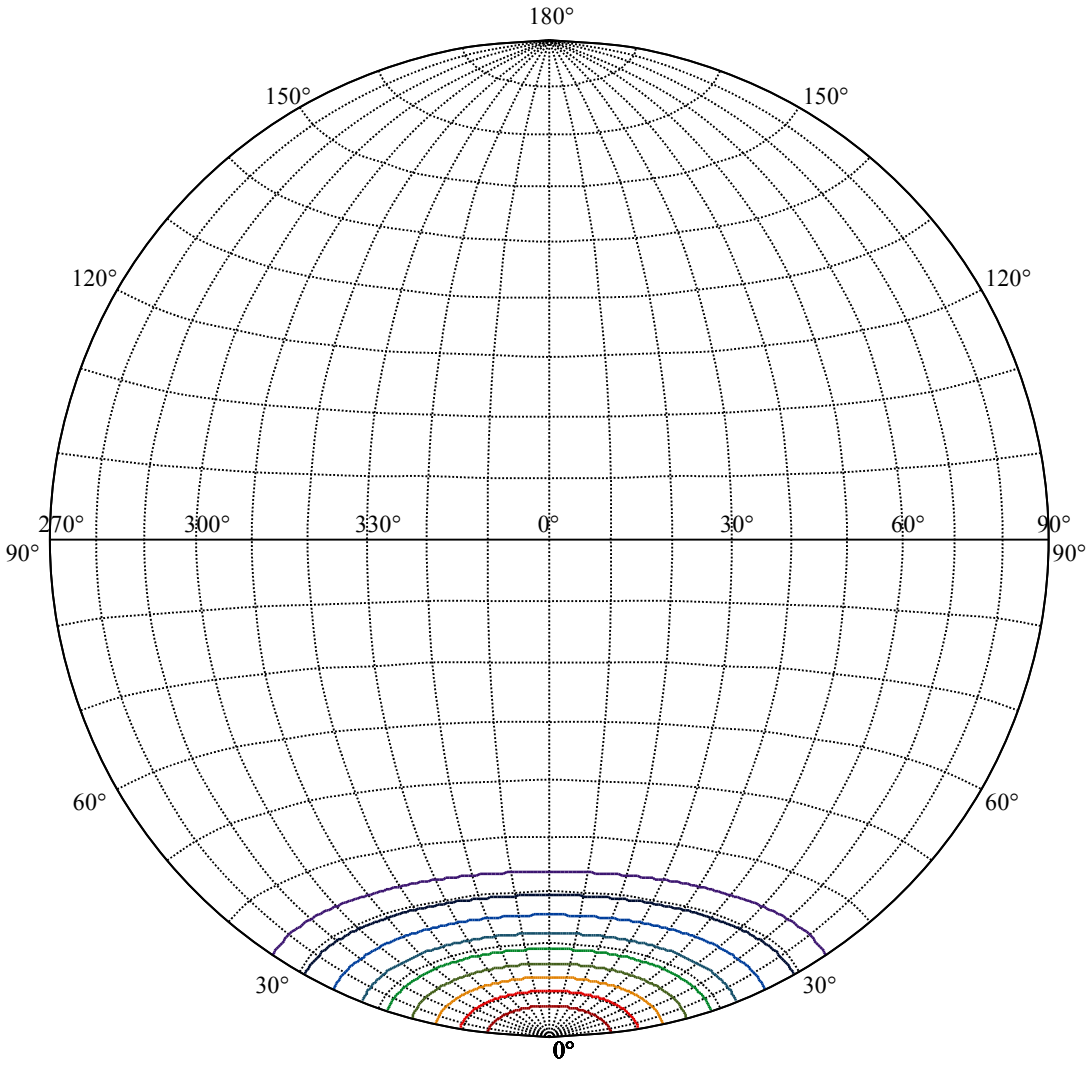


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:6643.35

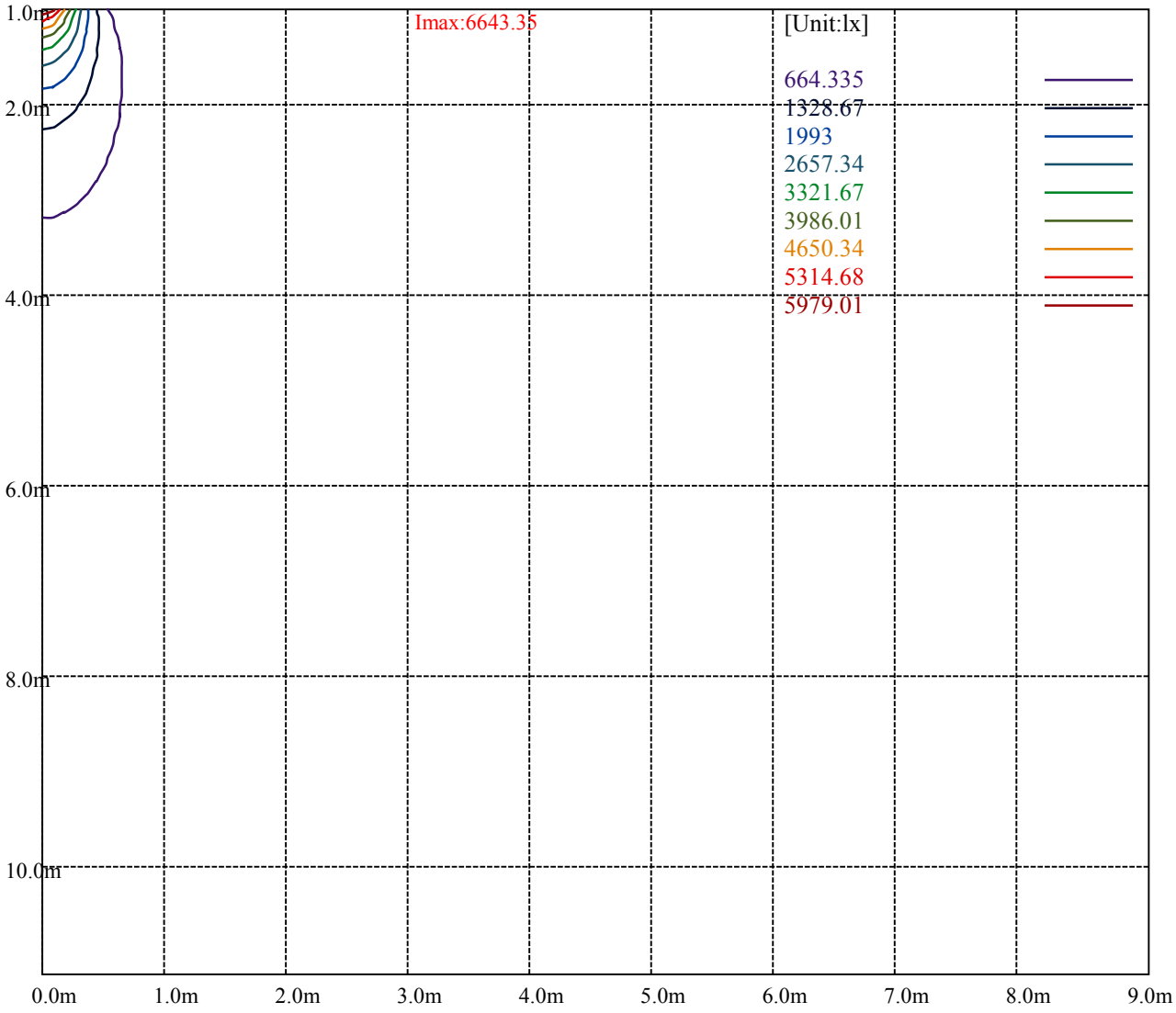
(10%Imax) 664.335
(20%Imax) 1328.67
(30%Imax) 1993
(40%Imax) 2657.34
(50%Imax) 3321.67
(60%Imax) 3986.01
(70%Imax) 4650.34
(80%Imax) 5314.68
(90%Imax) 5979.01

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2756-L

Luminance Limitting Curve(no luminous side)

Luminance Table

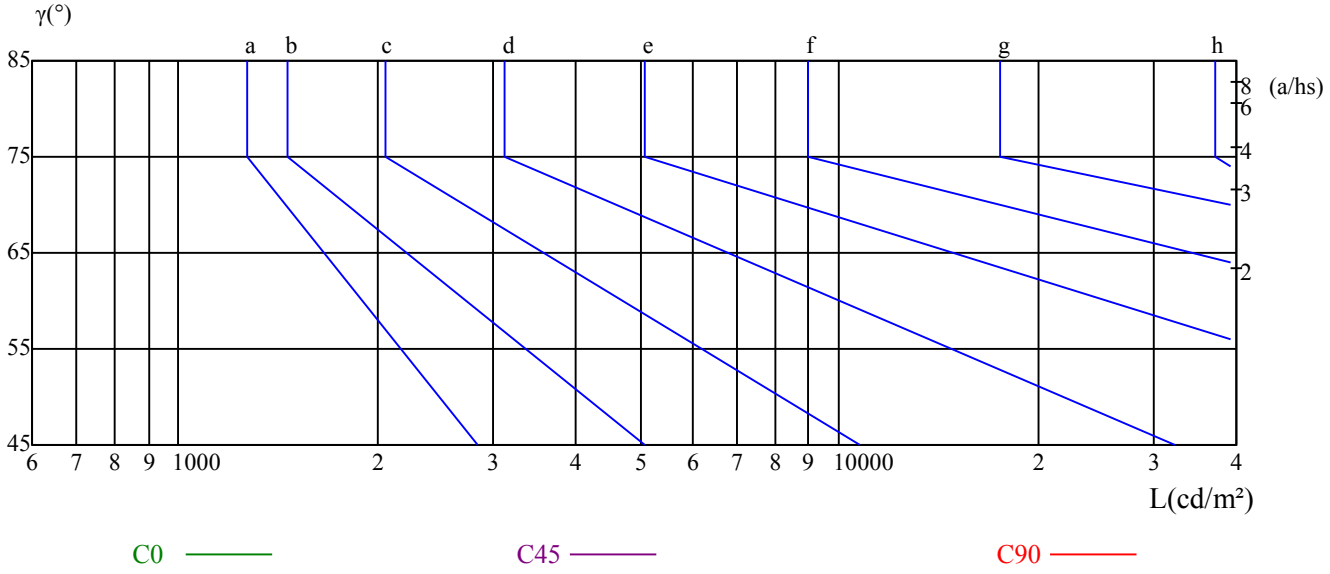
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

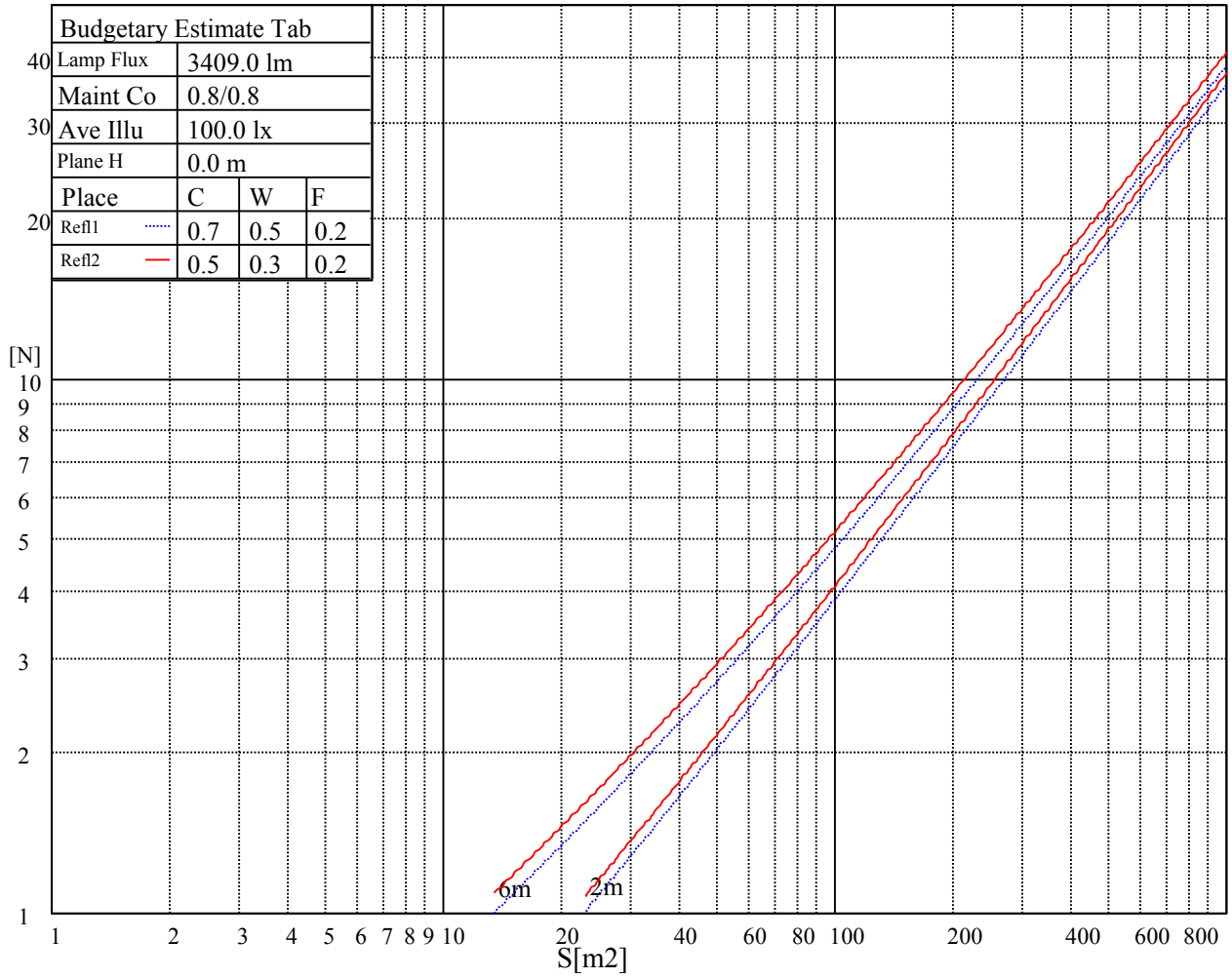
Date: 2024/8/30
Humidity(%): 60.0%

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

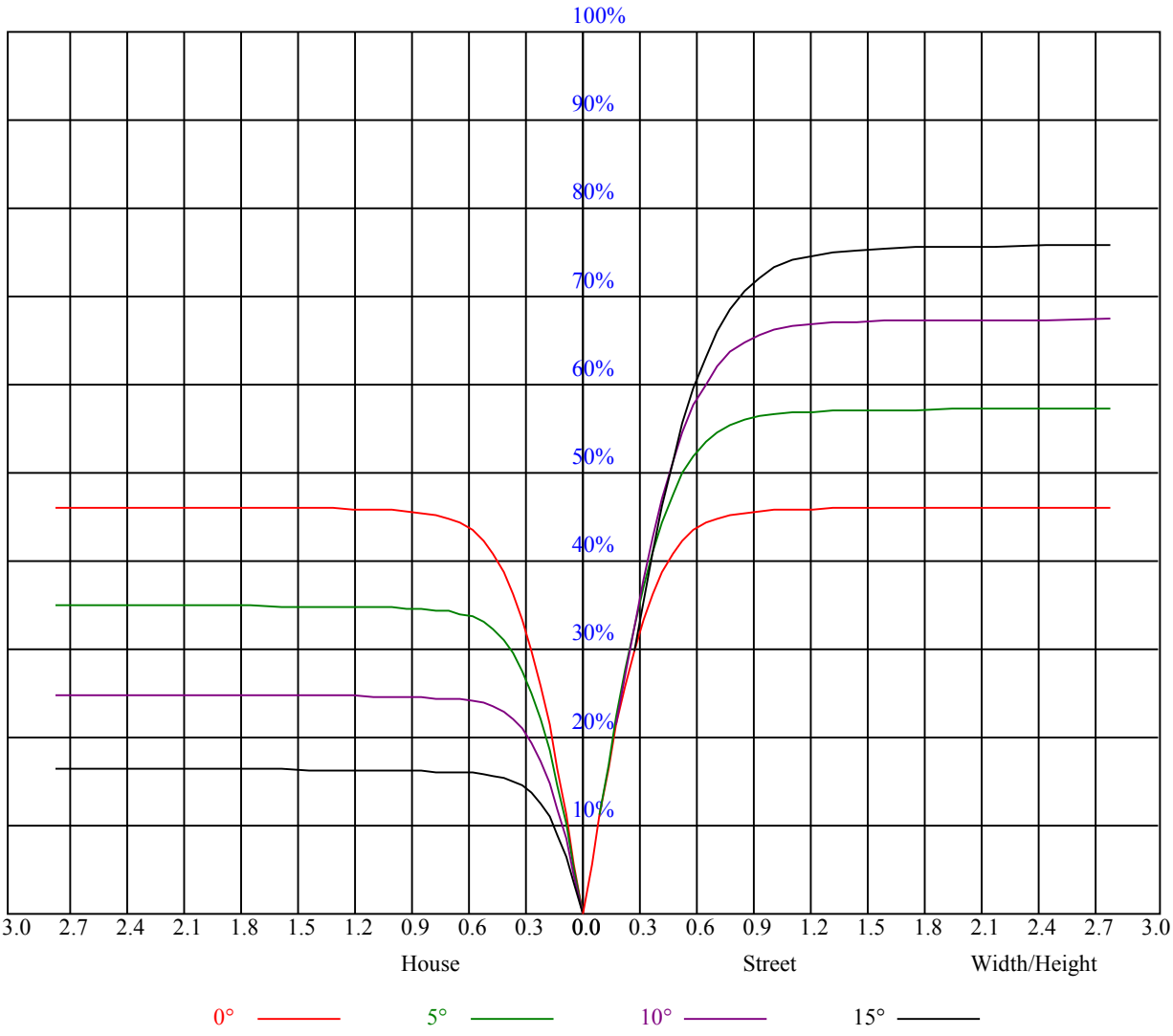
Date: 2024/8/30
Humidity(%): 60.0%

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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88
2	0.97	0.94	0.91	0.95	0.92	0.90	0.93	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.84	0.83
3	0.92	0.87	0.84	0.90	0.87	0.84	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.78
4	0.87	0.82	0.79	0.86	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.78	0.76	0.74
5	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
6	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.67
7	0.74	0.70	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.67	0.65	0.64
8	0.71	0.66	0.63	0.70	0.66	0.63	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.61
9	0.68	0.63	0.60	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.58
10	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.63	0.59	0.57	0.56

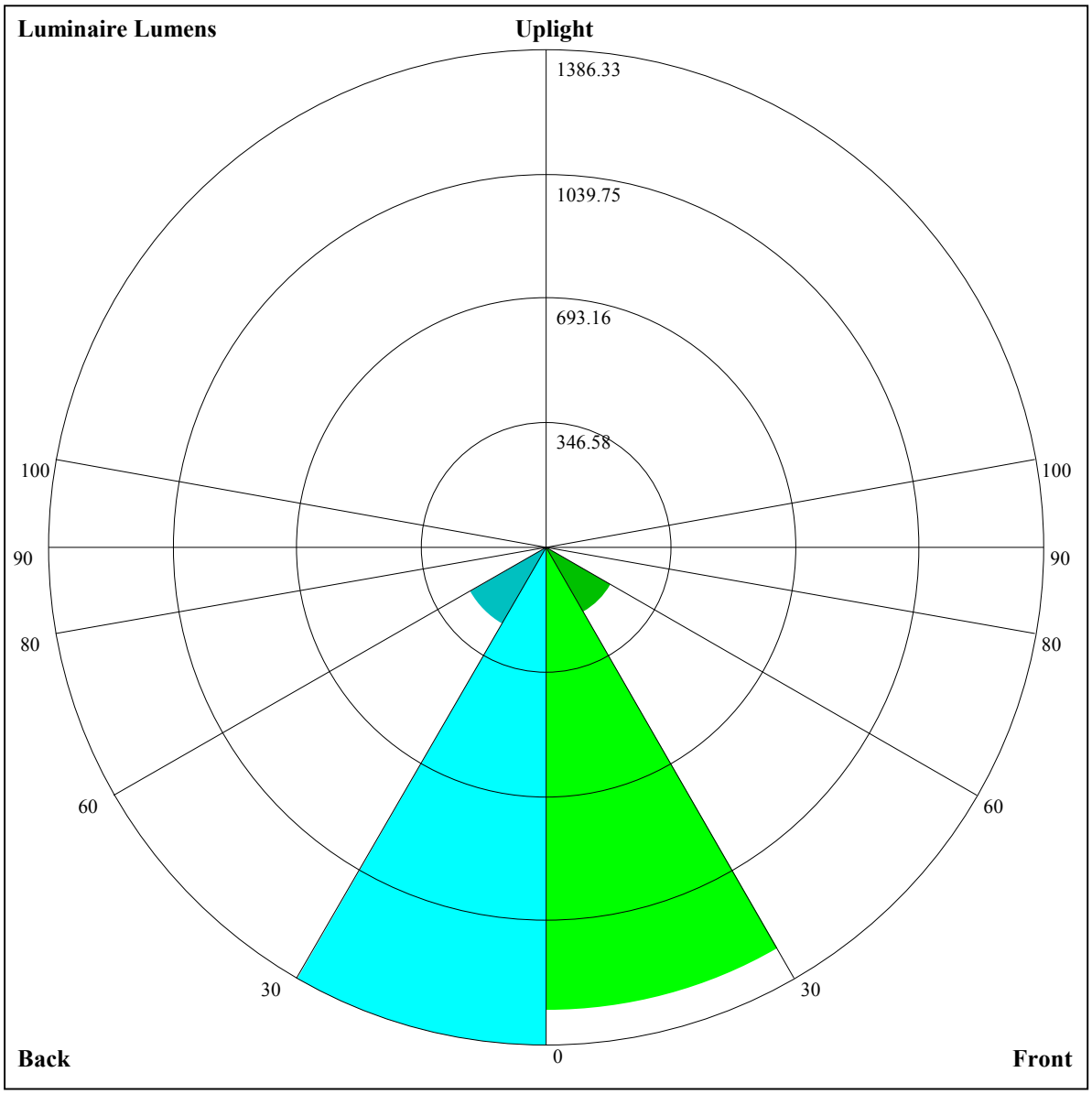
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=1292.28,FM=206.95,FH=9.14,FVH=1.22
BL=1386.33,BM=249.01,BH=9.66,BVH=1.39
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	6606.00	6551.39	6448.31	6346.92	6192.60	5990.92	5834.33	5642.11	5425.92
45.0	6683.48	6621.04	6546.97	6433.28	6280.06	6124.06	5939.67	5729.58	5521.22
90.0	6592.07	6497.93	6369.21	6221.56	6116.80	5932.94	5735.73	5521.80	5293.88
135.0	6691.84	6652.26	6608.26	6519.64	6434.39	6309.60	6154.18	5977.51	5781.40
180.0	6606.00	6652.84	6668.39	6649.47	6610.47	6536.36	6439.43	6318.54	6165.32
225.0	6683.48	6720.80	6707.97	6667.87	6632.76	6507.97	6432.18	6293.99	6048.84
270.0	6592.07	6661.19	6724.69	6741.40	6707.97	6638.91	6539.72	6440.54	6300.67
315.0	6691.84	6690.16	6643.90	6582.03	6493.47	6377.57	6236.59	6067.24	5880.01
360.0	6606.00	6551.39	6448.31	6346.92	6192.60	5990.92	5834.33	5642.11	5425.92

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5209.78	4980.19	4750.65	4525.00	4296.04	4054.78	3816.30	3580.61	3348.28
45.0	5282.74	5062.14	4833.70	4601.32	4369.00	4130.52	3892.10	3697.09	3420.71
90.0	5072.70	4828.65	4589.07	4351.75	4108.81	3862.56	3625.76	3399.01	3178.35
135.0	5564.69	5343.50	5116.70	4880.48	4643.11	4401.90	4157.27	3903.24	3654.72
180.0	5985.87	5780.88	5568.58	5349.60	5113.39	4868.23	4614.72	4372.88	4121.06
225.0	5930.15	5705.08	5481.11	5238.17	4996.91	4759.59	4523.32	4276.54	4026.34
270.0	6132.99	5927.95	5708.97	5486.68	5248.79	5015.88	4778.51	4531.15	4293.78
315.0	5676.12	5456.04	5223.71	5000.85	4765.16	4539.51	4314.96	4067.02	3825.24
360.0	5209.78	4980.19	4750.65	4525.00	4296.04	4054.78	3816.30	3580.61	3348.28

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3128.20	2914.80	2703.66	2496.93	2382.19	2114.75	1933.09	1826.65	1591.54
45.0	3204.00	3027.92	2812.30	2598.32	2395.54	2206.10	2024.44	1857.87	1689.04
90.0	2961.06	2749.91	2538.72	2338.72	2150.38	1968.73	1796.01	1657.87	1485.68
135.0	3422.92	3199.53	3066.34	2770.52	2556.01	2432.86	2236.17	2056.77	1884.63
180.0	3874.80	3729.94	3400.64	3177.77	3051.31	2837.90	2628.97	2421.71	2240.63
225.0	3779.51	3540.50	3311.49	3091.99	2881.37	2676.90	2471.33	2352.64	2087.99
270.0	4148.39	3905.45	3559.43	3421.82	3204.53	2991.70	2777.77	2564.89	2361.00
315.0	3680.90	3357.22	3134.88	3000.06	2697.51	2573.25	2368.78	2166.52	1978.24
360.0	3128.20	2914.80	2703.66	2496.93	2382.19	2114.75	1933.09	1826.65	1591.54

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1490.73	1078.27	1005.26	969.31	800.42	654.30	536.61	444.21	366.94
45.0	1523.00	1349.17	1171.99	995.95	825.44	675.01	553.01	457.19	376.93
90.0	1073.96	1073.96	970.67	802.42	657.03	536.03	441.26	363.21	298.77
135.0	1716.38	1548.65	1380.40	1208.20	1032.17	859.98	703.97	573.04	470.54
180.0	2062.34	1894.67	1726.36	1558.69	1388.18	1213.25	1033.85	858.87	698.98
225.0	1983.24	1812.72	1646.15	1476.80	1065.28	1065.28	929.73	766.31	628.12
270.0	2169.31	1985.44	1811.62	1638.90	1463.97	1290.15	1119.06	949.70	787.02
315.0	1798.27	1624.97	1450.57	1041.58	1041.58	937.19	775.88	633.90	540.13
360.0	1490.73	1078.27	1005.26	969.31	800.42	654.30	536.61	444.21	366.94

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	301.13	247.94	203.26	165.68	134.40	108.96	92.14	75.37	62.34
45.0	309.54	297.24	297.24	184.97	151.80	124.47	102.39	84.89	70.85
90.0	245.94	202.94	166.52	136.24	120.79	92.14	82.52	69.54	59.19
135.0	388.07	319.00	295.03	282.79	179.40	145.18	112.59	94.98	77.16
180.0	568.62	465.55	381.97	312.85	287.78	287.78	172.77	140.18	113.01
225.0	513.27	423.71	350.22	288.04	256.29	193.96	171.41	139.55	104.07
270.0	644.94	528.46	434.90	360.21	308.96	296.72	274.95	171.30	140.24
315.0	445.05	354.38	304.65	251.83	207.57	170.25	139.03	113.17	92.14
360.0	301.13	247.94	203.26	165.68	134.40	108.96	92.14	75.37	62.34

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	52.46	45.10	39.58	35.27	31.59	28.65	26.12	24.02	22.02
45.0	59.82	51.46	44.94	39.89	35.64	32.12	29.17	26.81	24.55
90.0	51.14	44.68	39.42	35.01	31.48	28.65	26.23	24.13	22.23
135.0	63.50	53.19	45.52	39.79	35.32	31.64	28.54	26.07	23.97
180.0	91.09	74.17	61.34	51.46	44.10	38.58	34.32	30.75	27.81
225.0	91.67	75.22	62.44	52.93	45.62	40.05	35.64	32.01	28.91
270.0	113.75	92.62	76.01	63.08	53.40	45.99	40.32	35.85	32.12
315.0	75.48	62.60	52.93	45.47	39.79	35.32	31.54	28.38	25.91
360.0	52.46	45.10	39.58	35.27	31.59	28.65	26.12	24.02	22.02

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	20.39	18.98	17.77	16.56	15.45	14.56	13.77	12.98	12.25
45.0	22.60	21.29	19.61	18.50	17.24	16.08	15.14	14.19	13.35
90.0	20.66	19.24	17.92	16.71	15.72	14.88	13.98	13.35	12.35
135.0	21.97	20.34	18.98	17.71	16.45	15.87	14.56	13.77	13.30
180.0	25.39	23.39	21.50	19.92	19.08	17.82	16.66	15.66	14.72
225.0	26.39	24.28	22.34	20.60	19.19	17.98	16.77	16.14	14.82
270.0	30.22	26.49	24.28	23.13	20.71	19.76	18.45	17.24	16.14
315.0	23.65	21.71	19.97	19.19	17.35	16.71	15.66	14.72	13.88
360.0	20.39	18.98	17.77	16.56	15.45	14.56	13.77	12.98	12.25

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.77	11.04	10.46	10.14	9.51	8.99	8.62	8.04	7.57
45.0	12.56	11.93	11.25	10.62	10.04	9.46	8.88	8.41	7.88
90.0	11.72	11.25	10.46	10.04	9.46	8.99	8.41	7.83	7.46
135.0	12.56	11.77	11.30	10.78	10.20	9.67	9.20	8.73	8.30
180.0	13.82	13.09	12.35	11.67	11.04	10.51	9.93	9.41	8.88
225.0	14.24	13.40	12.62	11.98	11.35	10.78	10.20	9.57	9.04
270.0	15.14	14.30	13.56	12.72	12.09	11.46	10.99	10.30	9.67
315.0	13.09	12.30	11.67	11.09	10.51	9.93	9.46	8.94	8.46
360.0	11.77	11.04	10.46	10.14	9.51	8.99	8.62	8.04	7.57

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.04	6.68	6.15	5.73	5.26	4.84	4.31	3.84	3.36
45.0	7.41	6.89	6.41	6.10	5.68	5.20	4.73	4.15	3.73
90.0	6.99	6.47	5.94	5.57	5.10	4.57	4.05	3.68	3.21
135.0	7.78	7.36	6.94	6.47	5.94	5.52	5.10	4.63	4.26
180.0	8.46	7.94	7.46	7.04	6.78	6.10	5.83	5.31	4.78
225.0	8.62	8.09	7.57	7.10	6.68	6.15	5.68	5.20	4.84
270.0	9.25	8.78	8.25	7.73	7.36	6.83	6.47	5.78	5.41
315.0	7.94	7.52	7.04	6.73	6.04	5.62	5.31	4.73	4.47
360.0	7.04	6.68	6.15	5.73	5.26	4.84	4.31	3.84	3.36

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.00	2.73	2.26	2.05	1.73	1.47	1.21	1.00	0.95
45.0	3.31	2.79	2.47	2.16	1.89	1.68	1.26	1.00	1.00
90.0	2.89	2.52	2.21	1.94	1.58	1.37	1.00	1.05	1.00
135.0	3.68	3.26	2.89	2.42	2.10	1.79	1.52	1.26	1.00
180.0	4.57	3.89	3.31	3.00	2.63	2.21	1.94	1.68	1.42
225.0	4.31	3.89	3.36	2.94	2.63	2.26	1.89	1.73	1.47
270.0	4.94	4.47	3.94	3.42	2.89	2.52	2.21	1.84	1.52
315.0	3.73	3.36	3.00	2.63	2.26	1.89	1.68	1.37	1.10
360.0	3.00	2.73	2.26	2.05	1.73	1.47	1.21	1.00	0.95

Intensity data(cd)

C/γ(°)	90.0
0.0	0.89
45.0	1.00
90.0	1.05
135.0	1.00
180.0	1.21
225.0	1.26
270.0	1.26
315.0	1.00
360.0	0.89