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: 2024902-B015
Ballast type: AC

Test No: 2024902-C015	Voltage(V): 36.620
LampCAT: LUMILEDS LUXEON CoB 1208	Current(A): 0.897
Lamp flux(lm): 4053.0	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): 3744.85, Efficiency(%): 92.40% , Luminous Efficacy(lm/W): 114.00
Central intensity(cd): 7840.130, Maximum intensity(cd): 7840.130
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=67.6
[C90/270]Total=67.6
Maximum s/h(1/2): C0_180=0.61 C90_270=0.61
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(%): 92.40%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.262%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7840.131	0.000	0	0.00%	0.00%
1.0	7818.343	7.492	7.492	0.18%	0.20%
2.0	7764.638	22.366	29.858	0.55%	0.80%
3.0	7681.280	36.942	66.8	0.91%	1.78%
4.0	7569.769	51.050	117.85	1.26%	3.15%
5.0	7442.246	64.581	182.431	1.59%	4.87%
6.0	7275.103	77.344	259.775	1.91%	6.94%
7.0	7056.200	88.954	348.729	2.19%	9.31%
8.0	6854.649	99.557	448.286	2.46%	11.97%
9.0	6620.989	109.213	557.499	2.69%	14.89%
10.0	6368.032	117.546	675.045	2.90%	18.03%
11.0	6104.635	124.628	799.672	3.07%	21.35%
12.0	5834.970	130.517	930.189	3.22%	24.84%
13.0	5578.399	135.448	1065.637	3.34%	28.46%
14.0	5297.039	139.205	1204.842	3.43%	32.17%
15.0	5034.042	141.830	1346.672	3.50%	35.96%
16.0	4731.302	143.090	1489.761	3.53%	39.78%
17.0	4469.560	143.282	1633.043	3.54%	43.61%
18.0	4209.028	143.091	1776.134	3.53%	47.43%
19.0	3944.665	141.858	1917.992	3.50%	51.22%
20.0	3682.167	139.592	2057.584	3.44%	54.94%
21.0	3426.011	136.491	2194.076	3.37%	58.59%
22.0	3170.616	132.562	2326.638	3.27%	62.13%
23.0	2924.564	127.893	2454.531	3.16%	65.54%
24.0	2690.556	122.767	2577.298	3.03%	68.82%
25.0	2467.547	117.284	2694.582	2.89%	71.95%
26.0	2280.621	112.081	2806.663	2.77%	74.95%
27.0	2069.392	106.424	2913.087	2.63%	77.79%
28.0	1840.121	98.981	3012.067	2.44%	80.43%
29.0	1655.357	91.452	3103.519	2.26%	82.87%
30.0	1426.724	83.216	3186.734	2.05%	85.10%
31.0	1187.571	72.752	3259.486	1.80%	87.04%
32.0	1061.546	64.435	3323.921	1.59%	88.76%
33.0	899.903	57.785	3381.706	1.43%	90.30%
34.0	754.824	50.077	3431.783	1.24%	91.64%
35.0	620.205	42.703	3474.486	1.05%	92.78%
36.0	509.889	35.982	3510.468	0.89%	93.74%
37.0	421.118	30.364	3540.833	0.75%	94.55%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	347.773	25.665	3566.497	0.63%	95.24%
39.0	297.944	22.040	3588.537	0.54%	95.83%
40.0	244.265	18.910	3607.448	0.47%	96.33%
41.0	205.657	16.022	3623.469	0.40%	96.76%
42.0	164.008	13.431	3636.9	0.33%	97.12%
43.0	134.002	11.039	3647.939	0.27%	97.41%
44.0	108.528	9.154	3657.093	0.23%	97.66%
45.0	89.199	7.599	3664.692	0.19%	97.86%
46.0	77.129	6.505	3671.196	0.16%	98.03%
47.0	65.276	5.664	3676.86	0.14%	98.18%
48.0	57.096	4.947	3681.807	0.12%	98.32%
49.0	50.539	4.420	3686.227	0.11%	98.43%
50.0	45.309	3.996	3690.223	0.10%	98.54%
51.0	40.618	3.635	3693.859	0.09%	98.64%
52.0	37.168	3.338	3697.197	0.08%	98.73%
53.0	34.198	3.104	3700.301	0.08%	98.81%
54.0	31.465	2.894	3703.195	0.07%	98.89%
55.0	29.087	2.703	3705.898	0.07%	98.96%
56.0	27.089	2.538	3708.437	0.06%	99.03%
57.0	25.210	2.391	3710.828	0.06%	99.09%
58.0	23.555	2.255	3713.083	0.06%	99.15%
59.0	22.030	2.131	3715.214	0.05%	99.21%
60.0	20.677	2.018	3717.232	0.05%	99.26%
61.0	19.396	1.912	3719.144	0.05%	99.31%
62.0	18.357	1.819	3720.963	0.04%	99.36%
63.0	17.247	1.732	3722.695	0.04%	99.41%
64.0	16.262	1.644	3724.339	0.04%	99.45%
65.0	15.460	1.570	3725.909	0.04%	99.49%
66.0	14.566	1.498	3727.407	0.04%	99.53%
67.0	13.883	1.431	3728.838	0.04%	99.57%
68.0	13.121	1.368	3730.205	0.03%	99.61%
69.0	12.332	1.299	3731.504	0.03%	99.64%
70.0	11.695	1.234	3732.738	0.03%	99.68%
71.0	10.999	1.173	3733.911	0.03%	99.71%
72.0	10.342	1.110	3735.021	0.03%	99.74%
73.0	9.704	1.048	3736.069	0.03%	99.77%
74.0	9.120	0.990	3737.058	0.02%	99.79%
75.0	8.502	0.931	3737.989	0.02%	99.82%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.799	0.865	3738.855	0.02%	99.84%
77.0	7.286	0.804	3739.659	0.02%	99.86%
78.0	6.649	0.746	3740.405	0.02%	99.88%
79.0	6.025	0.681	3741.086	0.02%	99.90%
80.0	5.407	0.616	3741.702	0.02%	99.92%
81.0	4.763	0.550	3742.252	0.01%	99.93%
82.0	4.225	0.487	3742.74	0.01%	99.94%
83.0	3.679	0.430	3743.17	0.01%	99.96%
84.0	3.134	0.371	3743.541	0.01%	99.96%
85.0	2.681	0.317	3743.858	0.01%	99.97%
86.0	2.293	0.272	3744.13	0.01%	99.98%
87.0	1.919	0.230	3744.36	0.01%	99.99%
88.0	1.597	0.193	3744.553	0.00%	99.99%
89.0	1.334	0.161	3744.714	0.00%	100.00%
90.0	1.216	0.140	3744.853	0.00%	100.00%

Zonal flux distribution table

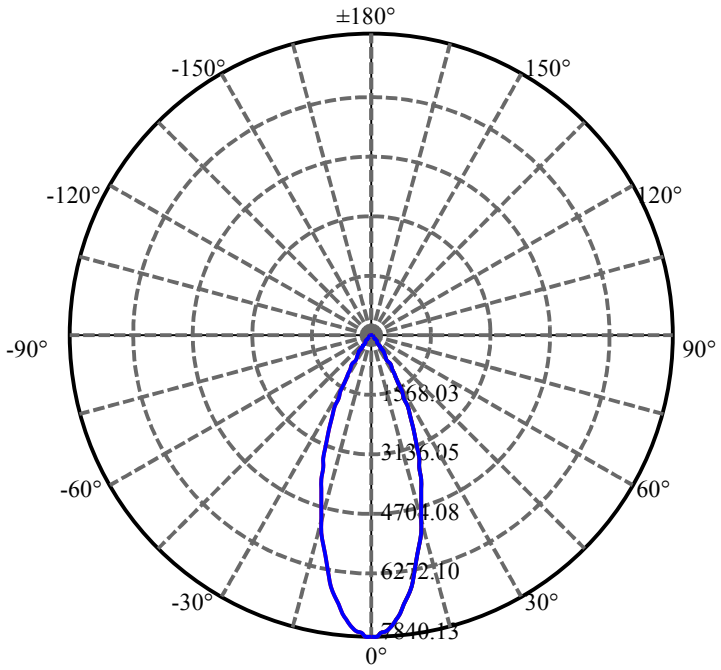
ZONAL LUMEN SUMMARY

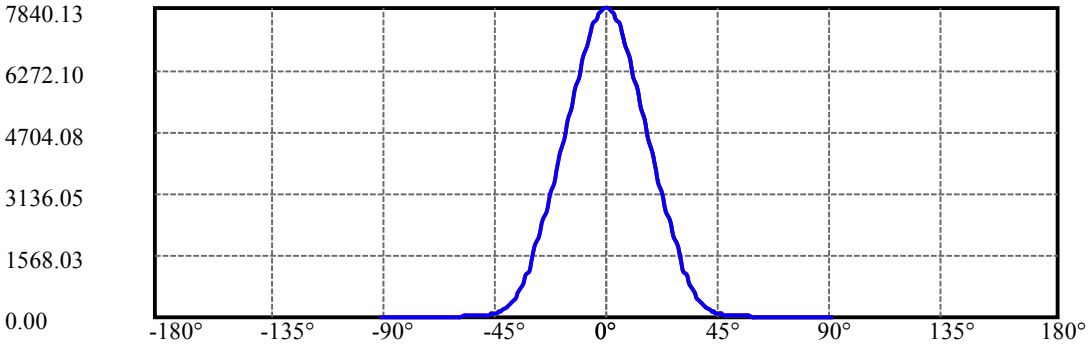
Zone	Lumens	%Lamp	%Fixt
0-30	3186.73	78.63%	85.10%
0-40	3607.45	89.01%	96.33%
0-60	3717.23	91.72%	99.26%
0-90	3744.71	92.39%	100.00%
0-120	3744.71	92.39%	100.00%
0-180	3744.85	92.40%	100.00%
60-90	27.48	0.68%	0.73%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.84	2995.88	73.92%	80.00%

ZONAL LUMEN SUMMARY

0-10	675.04
10-20	1382.54
20-30	1129.15
30-40	420.71
40-50	82.78
50-60	27.01
60-70	15.51
70-80	8.96
80-90	3.01
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):

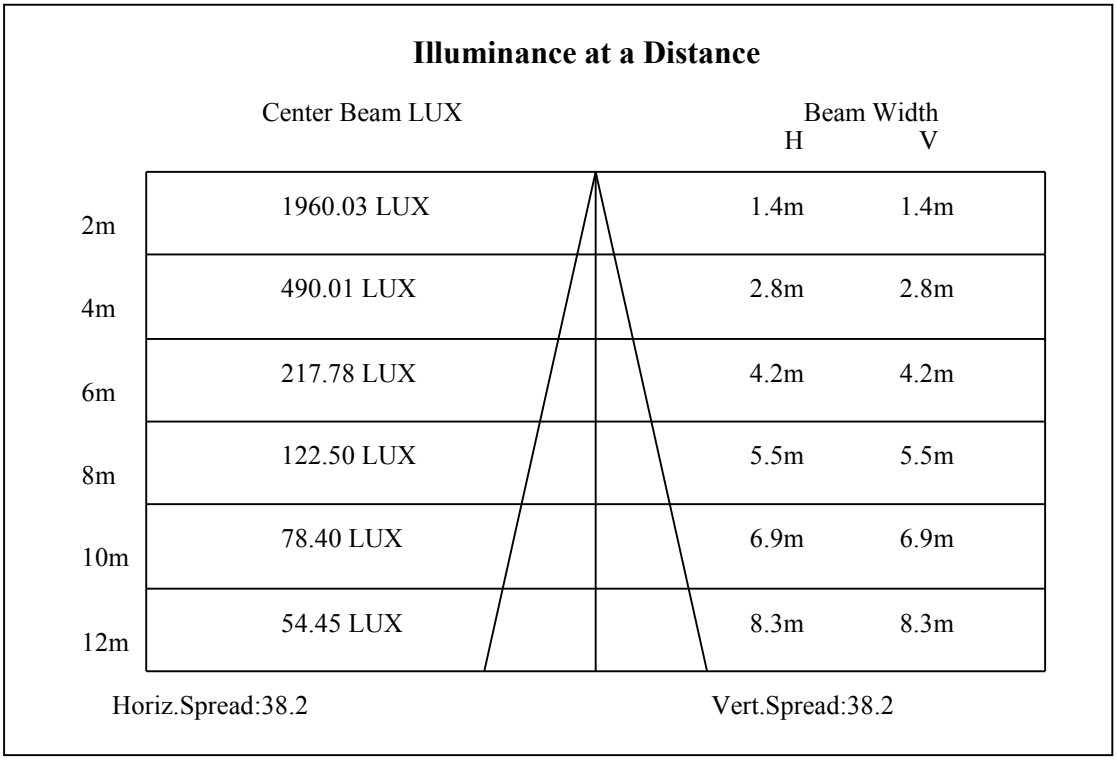
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:33.8 Right:33.8
:C90/270Left:33.8 Right:33.8

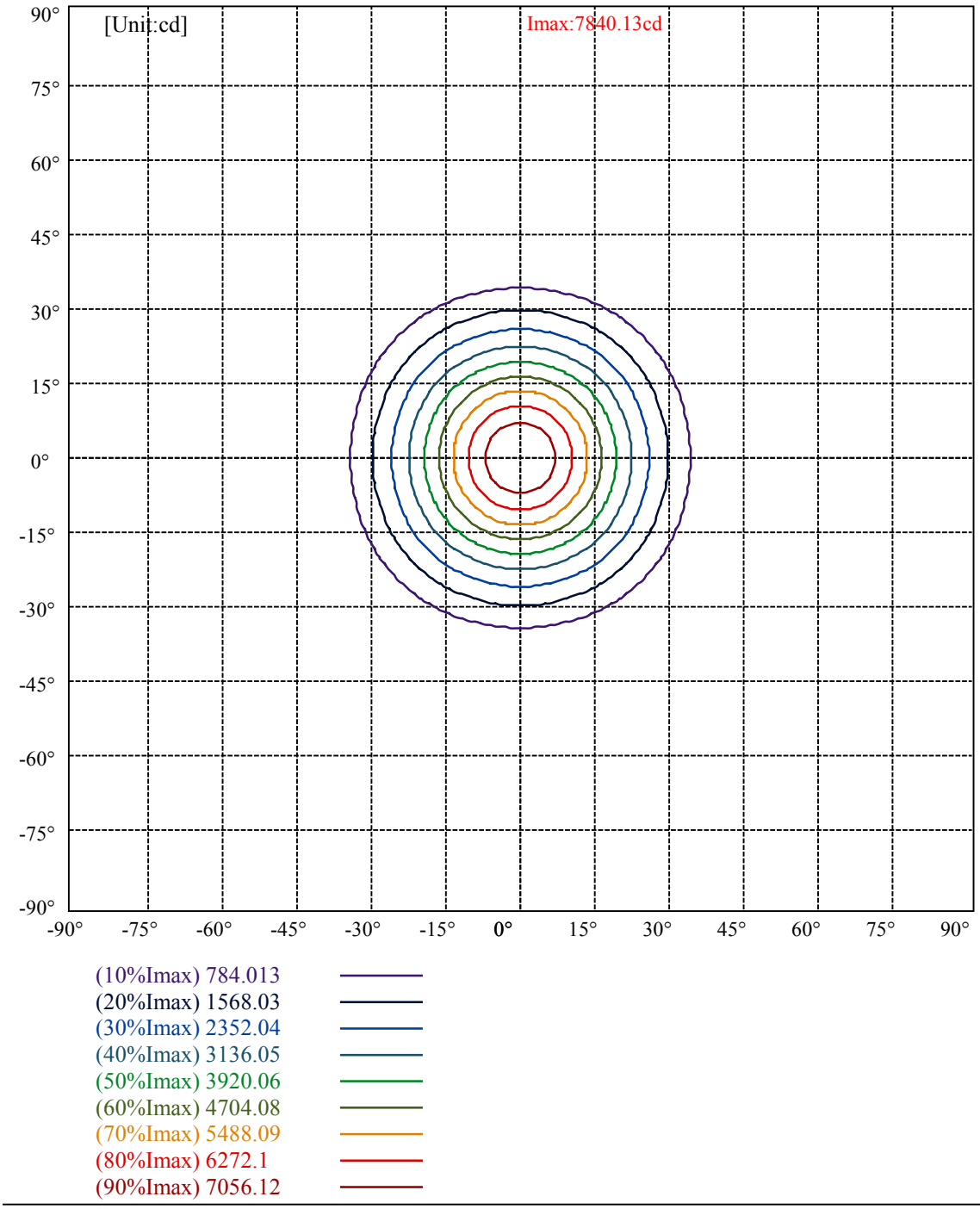
Beam Angle(50%Imax):C0/180Left:19.1 Right:19.1
:C90/270Left:19.1 Right:19.1

Lux distance Curve



Equipment: GMS 1800 Date: 2024/9/2 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.25

ISO-Intensity(V-H)



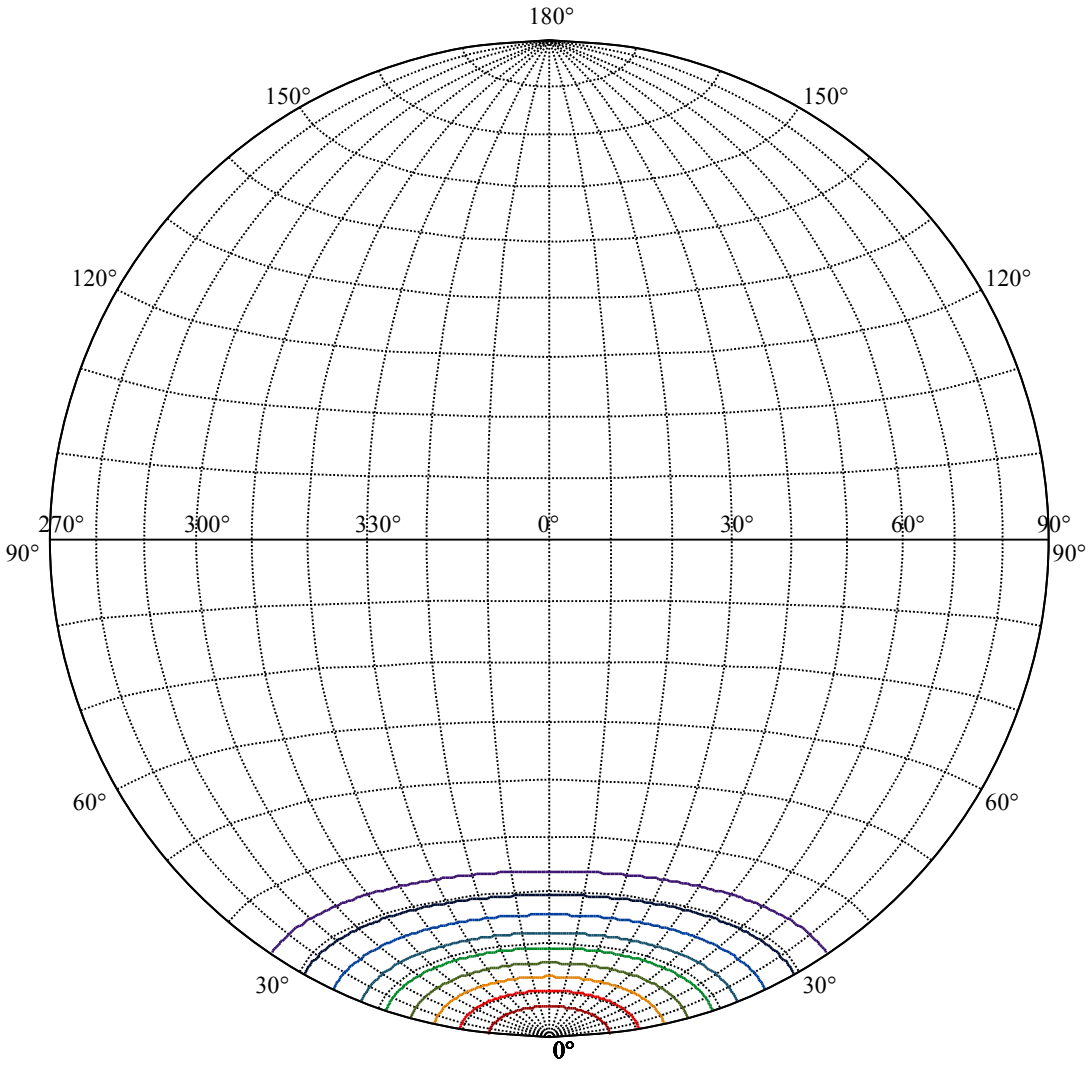
(10%Imax) 784.013
(20%Imax) 1568.03
(30%Imax) 2352.04
(40%Imax) 3136.05
(50%Imax) 3920.06
(60%Imax) 4704.08
(70%Imax) 5488.09
(80%Imax) 6272.1
(90%Imax) 7056.12

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:7840.13

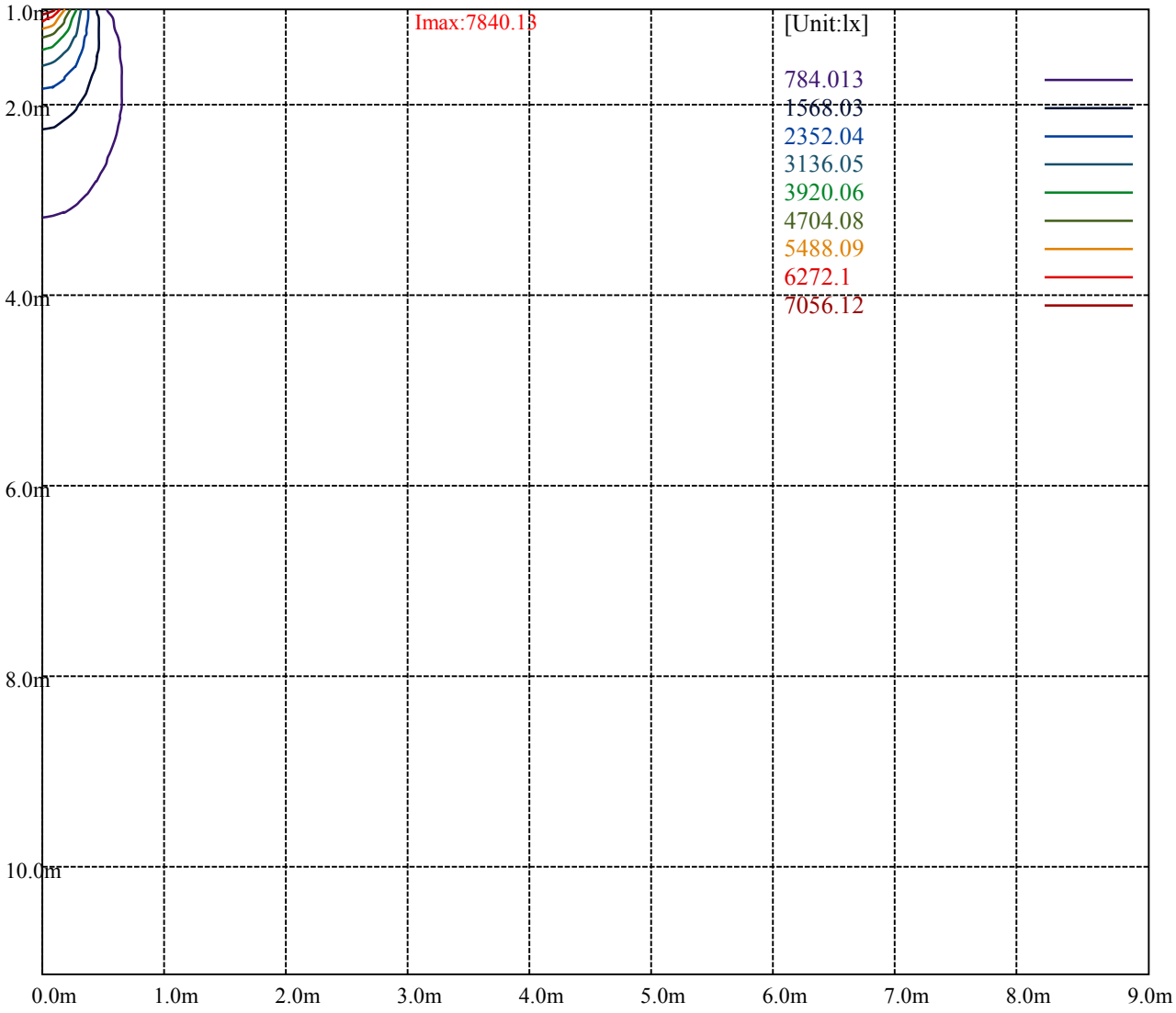
(10%Imax) 784.013
(20%Imax) 1568.03
(30%Imax) 2352.04
(40%Imax) 3136.05
(50%Imax) 3920.06
(60%Imax) 4704.08
(70%Imax) 5488.09
(80%Imax) 6272.1
(90%Imax) 7056.12

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Luminance Limitting Curve(no luminous side)

Luminance Table

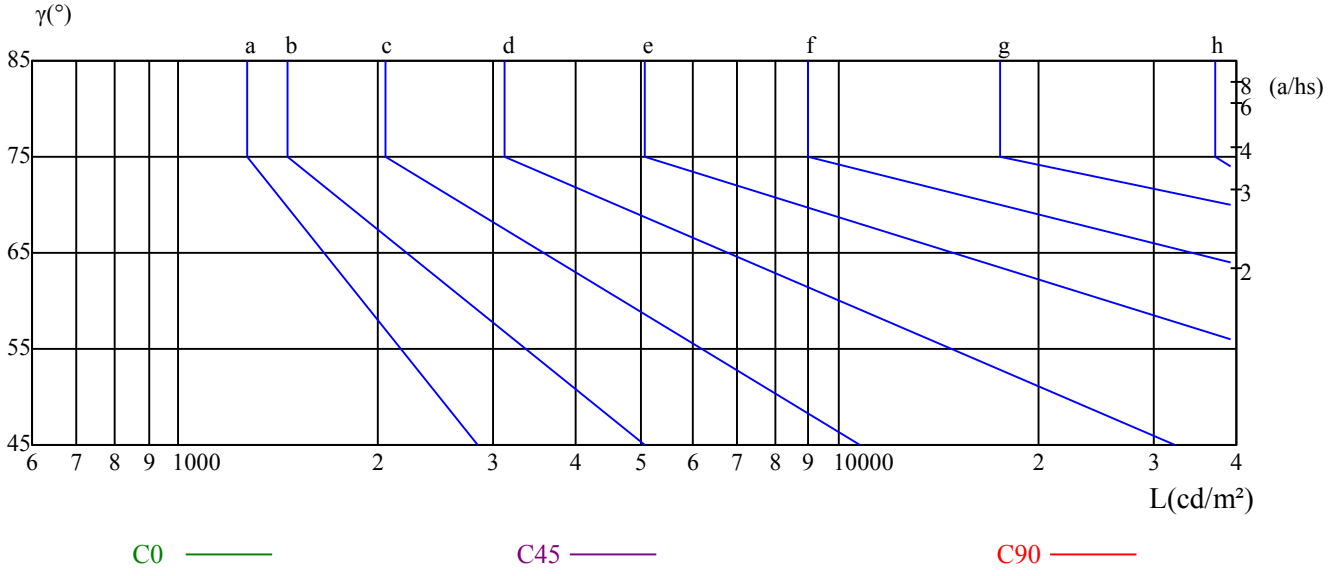
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

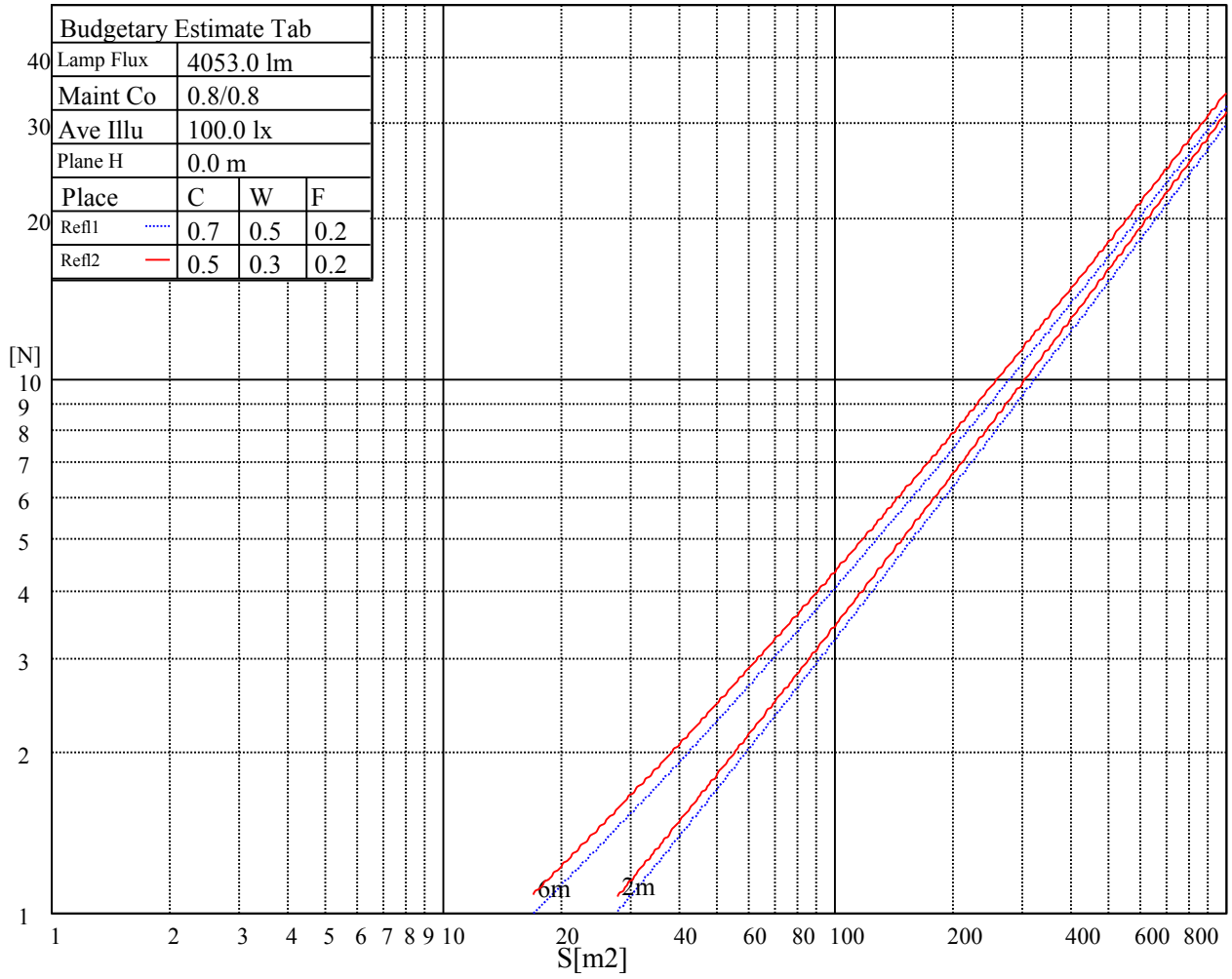


UGR Glare

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

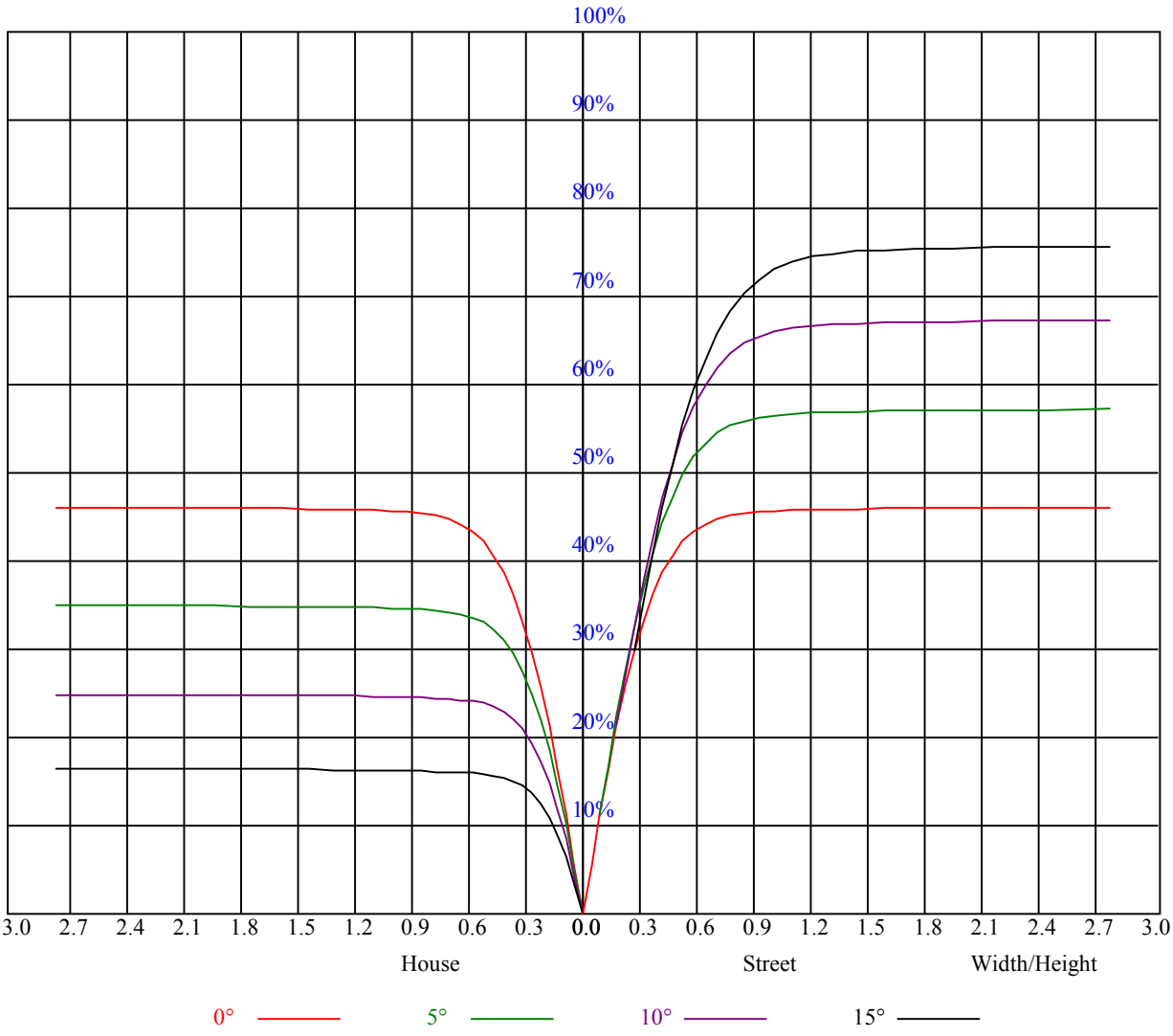


Equipment: GMS 1800 Date: 2024/9/2 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.25

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	1.10	1.10	1.10	1.07	1.07	1.07	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	0.97	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	0.92	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.84	0.83
3	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.81	0.80	0.78
4	0.86	0.82	0.79	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.78	0.75	0.74
5	0.82	0.77	0.74	0.81	0.77	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.70
6	0.78	0.73	0.70	0.77	0.73	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.70	0.68	0.67
7	0.74	0.69	0.66	0.74	0.69	0.66	0.73	0.68	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	0.69	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	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.58
10	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.56

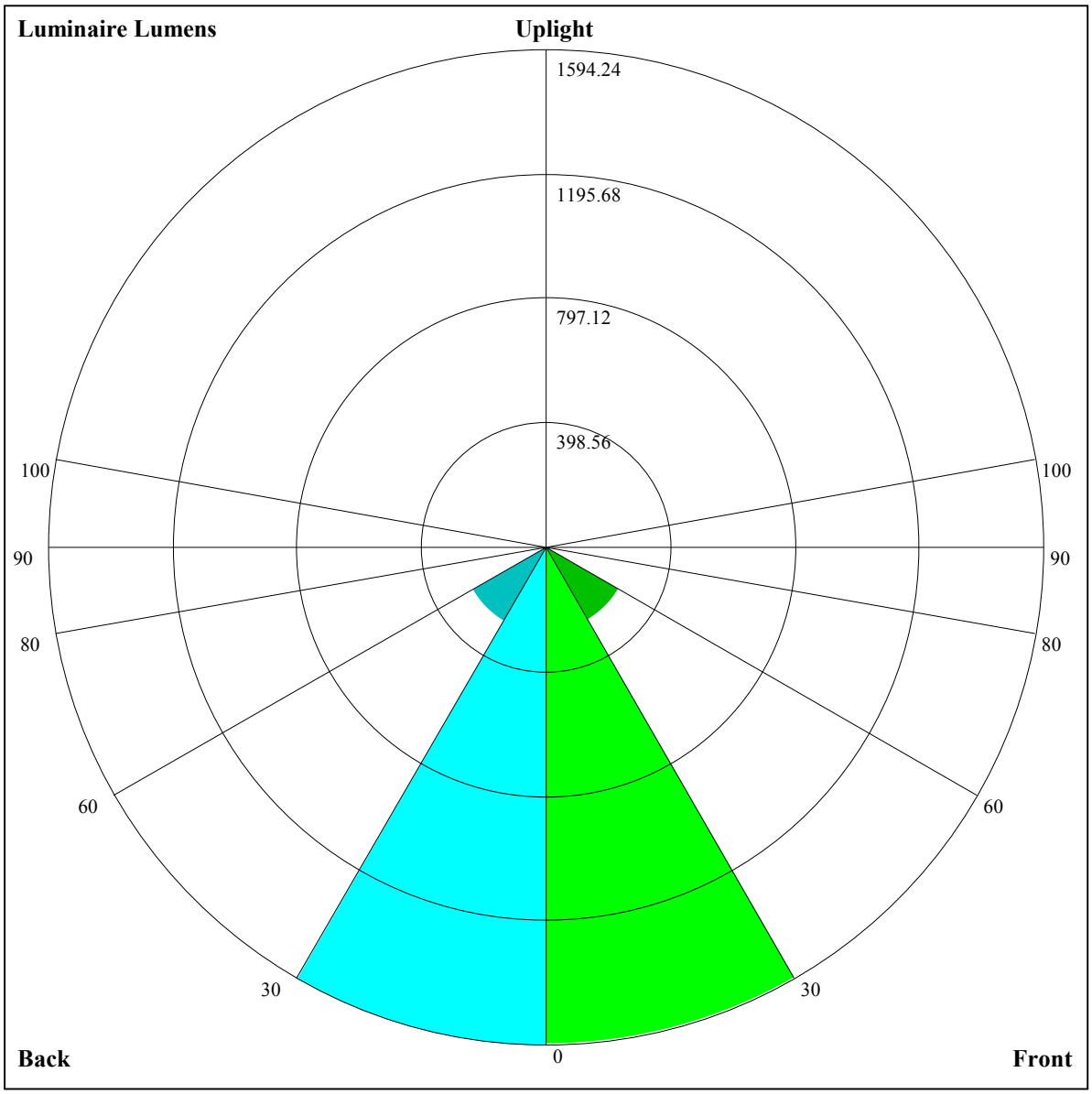
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=1590.08,FM=268.22,FH=12.35,FVH=1.61
BL=1594.24,BM=274.54,BH=12.25,BVH=1.62
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	7842.38	7800.59	7744.87	7661.30	7544.30	7398.33	7196.59	6966.48	6715.75
45.0	7841.80	7802.27	7750.45	7658.51	7546.50	7451.79	7292.99	7007.74	6850.63
90.0	7789.97	7706.40	7581.04	7440.12	7266.24	7065.66	6844.48	6601.53	6353.60
135.0	7886.37	7818.41	7739.83	7622.82	7486.32	7299.67	7106.92	6875.70	6623.30
180.0	7842.38	7832.34	7799.43	7714.76	7613.94	7535.94	7385.50	7118.07	6998.80
225.0	7841.80	7826.77	7766.58	7706.98	7605.01	7469.60	7307.50	7104.66	6881.27
270.0	7789.97	7850.74	7889.74	7857.99	7786.08	7723.69	7611.68	7506.40	7356.54
315.0	7886.37	7909.24	7845.16	7787.77	7709.76	7593.28	7455.15	7269.03	7057.30
360.0	7842.38	7800.59	7744.87	7661.30	7544.30	7398.33	7196.59	6966.48	6715.75

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6443.32	6160.27	5881.17	5609.26	5330.10	5029.81	4740.09	4449.26	4283.74
45.0	6610.47	6359.75	6093.41	5818.72	5537.93	5268.29	4980.77	4692.15	4406.89
90.0	6088.42	5815.94	5552.44	5281.06	5003.63	4714.44	4531.68	4152.28	3892.62
135.0	6475.07	6112.39	5849.37	5683.37	5407.58	5112.28	4840.90	4558.43	4272.60
180.0	6768.68	6512.39	6239.38	5979.19	5714.02	5446.58	5164.06	4874.33	4586.29
225.0	6652.84	6394.28	6134.10	5853.31	5600.32	5333.46	5109.50	4766.84	4531.68
270.0	7115.81	6921.38	6681.22	6432.76	6175.31	5903.45	5628.18	5361.32	5075.49
315.0	6813.31	6667.87	6406.00	6022.09	5858.30	5568.00	5277.17	4995.80	4707.18
360.0	6443.32	6160.27	5881.17	5609.26	5330.10	5029.81	4740.09	4449.26	4283.74

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	4007.94	3758.90	3505.39	3256.93	3008.41	2768.26	2542.08	2329.78	2131.46
45.0	4133.88	3864.76	3600.69	3346.60	3094.20	2847.42	2606.68	2382.19	2254.56
90.0	3739.98	3477.01	3215.67	2962.74	2713.70	2478.01	2261.82	2046.21	1847.83
135.0	4001.27	3756.69	3497.04	3246.89	3002.84	2763.84	2532.62	2311.38	2114.17
180.0	4311.60	4049.20	3789.55	3529.36	3265.81	3014.56	2786.65	2571.04	2372.67
225.0	4258.14	3992.38	3744.45	3479.22	3215.67	2974.41	2738.19	2522.00	2308.07
270.0	4796.91	4507.76	4223.61	3958.38	3700.40	3448.57	3201.21	2948.81	2807.84
315.0	4422.50	4150.60	3880.95	3627.97	3363.89	3101.45	2855.20	2628.97	2408.36
360.0	4007.94	3758.90	3505.39	3256.93	3008.41	2768.26	2542.08	2329.78	2131.46

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1933.67	1735.30	1536.40	1059.71	1059.71	981.55	736.35	652.93	537.77
45.0	2050.67	1764.84	1646.15	1439.42	1232.17	1028.28	839.95	683.37	563.58
90.0	1642.79	1328.57	1061.24	1019.87	831.54	706.49	580.87	477.79	393.75
135.0	1916.38	1720.79	1518.01	1308.49	1143.02	910.70	776.98	637.69	530.72
180.0	2215.56	1983.81	1826.65	1623.29	1375.35	1208.78	1007.10	825.44	674.48
225.0	2105.81	1916.38	1718.01	1519.69	1029.23	1029.23	914.48	810.88	663.97
270.0	2482.47	2265.18	2135.35	1843.95	1720.79	1518.58	1316.85	1112.96	914.59
315.0	2207.78	2006.10	1801.05	1599.37	1108.75	1108.75	1026.65	837.53	682.79
360.0	1933.67	1735.30	1536.40	1059.71	1059.71	981.55	736.35	652.93	537.77

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	444.78	367.88	305.07	252.56	206.83	169.41	138.34	113.43	93.82
45.0	465.55	385.28	318.42	295.03	237.48	183.08	137.92	112.64	100.60
90.0	324.21	267.39	219.40	179.66	146.96	120.89	99.82	83.31	71.17
135.0	439.32	361.89	297.82	297.82	198.69	161.26	131.46	107.44	88.73
180.0	555.80	459.97	377.50	309.54	296.72	296.72	167.94	136.93	121.63
225.0	544.81	451.20	371.35	306.39	251.88	205.52	167.67	136.08	110.96
270.0	742.97	610.41	506.76	420.97	349.07	288.88	288.88	234.80	160.21
315.0	561.68	464.92	385.86	321.58	266.49	219.50	180.03	147.39	121.10
360.0	444.78	367.88	305.07	252.56	206.83	169.41	138.34	113.43	93.82

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	78.42	67.07	58.45	51.83	46.52	41.94	38.32	35.16	32.43
45.0	78.42	71.17	61.39	54.19	48.36	43.57	39.47	36.22	33.27
90.0	61.66	54.40	48.57	43.84	39.63	36.32	33.38	30.80	29.38
135.0	79.68	63.60	55.45	51.46	44.05	41.26	37.32	34.22	31.33
180.0	93.40	83.99	71.49	62.13	54.77	48.57	43.52	39.21	35.95
225.0	91.14	76.01	64.60	55.93	49.46	44.31	40.05	36.48	34.06
270.0	130.57	111.12	91.46	76.27	64.91	56.24	49.72	44.68	40.26
315.0	100.29	89.67	70.80	61.13	56.61	50.25	43.15	40.58	36.90
360.0	78.42	67.07	58.45	51.83	46.52	41.94	38.32	35.16	32.43

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	29.80	28.49	26.54	24.70	23.23	21.71	20.45	19.13	18.08
45.0	30.70	28.49	26.49	24.76	23.23	21.71	20.45	19.24	18.66
90.0	27.23	24.70	23.65	22.18	20.76	19.45	18.40	17.29	16.29
135.0	28.96	26.81	24.97	23.29	21.71	20.39	19.13	18.08	17.08
180.0	33.01	30.38	28.23	26.28	24.55	22.86	21.45	20.08	18.92
225.0	31.43	29.01	27.02	25.23	23.55	22.02	20.71	19.50	18.45
270.0	36.74	33.69	31.06	28.70	26.65	24.97	23.23	21.71	20.39
315.0	33.85	31.12	28.75	26.54	24.76	23.13	21.60	20.13	18.98
360.0	29.80	28.49	26.54	24.70	23.23	21.71	20.45	19.13	18.08

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.08	16.03	15.24	14.40	13.56	12.83	12.04	11.30	10.62
45.0	17.14	16.14	15.72	14.56	14.03	13.25	12.51	11.83	11.14
90.0	15.40	14.56	13.82	13.04	12.25	11.56	10.88	10.25	9.57
135.0	16.14	15.24	14.45	13.67	12.98	12.25	11.67	10.99	10.25
180.0	17.82	16.77	15.98	14.98	14.30	13.40	12.62	11.98	11.30
225.0	17.29	16.35	15.51	14.77	13.98	13.14	12.46	11.77	11.14
270.0	19.19	18.13	17.08	16.14	15.66	14.93	13.82	13.35	12.56
315.0	17.92	16.87	15.87	14.98	14.30	13.61	12.67	12.09	11.41
360.0	17.08	16.03	15.24	14.40	13.56	12.83	12.04	11.30	10.62

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.88	9.25	8.78	7.88	7.31	6.83	6.10	5.47	4.84
45.0	10.41	9.78	9.20	8.52	7.78	7.25	6.57	5.89	5.15
90.0	8.99	8.36	7.67	7.31	6.47	6.04	5.41	4.78	4.15
135.0	9.72	9.04	8.52	7.78	7.15	6.62	5.94	5.26	4.68
180.0	10.51	9.83	9.30	8.67	7.94	7.36	6.78	6.20	5.52
225.0	10.41	9.78	9.25	8.83	7.88	7.57	6.99	6.41	5.78
270.0	12.04	11.46	10.78	10.20	9.57	9.04	8.41	7.78	7.31
315.0	10.78	10.14	9.46	8.83	8.30	7.57	6.99	6.41	5.83
360.0	9.88	9.25	8.78	7.88	7.31	6.83	6.10	5.47	4.84

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.21	3.78	3.31	2.79	2.42	2.05	1.73	1.47	1.16
45.0	4.57	3.99	3.36	2.79	2.37	2.05	1.73	1.37	1.10
90.0	3.42	3.00	2.63	2.26	1.89	1.58	1.31	1.10	1.10
135.0	4.10	3.57	3.05	2.47	2.10	1.84	1.47	1.21	1.05
180.0	4.84	4.31	3.78	3.21	2.73	2.42	2.00	1.68	1.37
225.0	5.15	4.52	4.05	3.57	3.05	2.63	2.16	1.79	1.47
270.0	6.73	5.99	5.20	4.57	3.99	3.26	2.84	2.37	1.94
315.0	5.10	4.63	4.05	3.42	2.89	2.52	2.10	1.79	1.47
360.0	4.21	3.78	3.31	2.79	2.42	2.05	1.73	1.47	1.16

Intensity data(cd)

C/γ(°)	90.0
0.0	1.16
45.0	1.16
90.0	1.10
135.0	1.05
180.0	1.05
225.0	1.31
270.0	1.58
315.0	1.31
360.0	1.16