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: 2-2748-L
Luminaire: 92.70.411.00
Report No: 2024911-B010
Ballast type: AC

Test No: 2024911-C010	Voltage(V): 33.820
LampCAT: NICHIA NFCWJ120B-V3	Current(A): 0.580
Lamp flux(lm): 2595.0	Power (W): 19.610
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2423.78, Efficiency(%): 93.40% , Luminous Efficacy(lm/W): 123.60
Central intensity(cd): 10998.350, Maximum intensity(cd): 10998.350
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=19.4
[C90/270]Total=19.4
Field angle(10%Imax): [C0/180]Total=51.2
[C90/270]Total=51.2
Maximum s/h(1/2): C0_180=0.33 C90_270=0.33
Maximum s/h(1/4): C0_180=0.37 C90_270=0.37
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.40%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.003%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10998.348	0.000	0	0.00%	0.00%
1.0	10972.987	10.513	10.513	0.41%	0.43%
2.0	10669.852	31.064	41.577	1.20%	1.72%
3.0	10311.218	50.180	91.757	1.93%	3.79%
4.0	9820.364	67.387	159.143	2.60%	6.57%
5.0	9125.579	81.504	240.648	3.14%	9.93%
6.0	8403.837	92.122	332.77	3.55%	13.73%
7.0	7576.385	99.189	431.959	3.82%	17.82%
8.0	6782.921	102.767	534.725	3.96%	22.06%
9.0	6000.666	103.604	638.329	3.99%	26.34%
10.0	5319.318	102.442	740.771	3.95%	30.56%
11.0	4666.183	99.776	840.547	3.84%	34.68%
12.0	4158.535	96.467	937.014	3.72%	38.66%
13.0	3610.919	92.204	1029.217	3.55%	42.46%
14.0	3248.481	87.800	1117.017	3.38%	46.09%
15.0	2991.003	85.658	1202.676	3.30%	49.62%
16.0	2644.485	82.576	1285.251	3.18%	53.03%
17.0	2394.084	78.464	1363.715	3.02%	56.26%
18.0	2137.467	74.715	1438.431	2.88%	59.35%
19.0	1982.230	71.674	1510.105	2.76%	62.30%
20.0	1774.576	68.760	1578.865	2.65%	65.14%
21.0	1624.431	65.268	1644.133	2.52%	67.83%
22.0	1491.152	62.609	1706.742	2.41%	70.42%
23.0	1389.470	60.443	1767.185	2.33%	72.91%
24.0	1261.822	57.967	1825.152	2.23%	75.30%
25.0	1170.738	55.311	1880.463	2.13%	77.58%
26.0	1054.266	52.521	1932.984	2.02%	79.75%
27.0	975.954	49.670	1982.654	1.91%	81.80%
28.0	885.396	47.125	2029.78	1.82%	83.74%
29.0	797.984	44.042	2073.822	1.70%	85.56%
30.0	696.828	40.360	2114.181	1.56%	87.23%
31.0	603.779	36.194	2150.375	1.39%	88.72%
32.0	525.454	32.351	2182.726	1.25%	90.05%
33.0	440.737	28.464	2211.191	1.10%	91.23%
34.0	375.809	24.711	2235.902	0.95%	92.25%
35.0	326.801	21.820	2257.722	0.84%	93.15%
36.0	272.918	19.095	2276.817	0.74%	93.94%
37.0	227.648	16.326	2293.143	0.63%	94.61%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	184.166	13.746	2306.889	0.53%	95.18%
39.0	156.551	11.630	2318.518	0.45%	95.66%
40.0	135.519	10.186	2328.705	0.39%	96.08%
41.0	105.907	8.597	2337.302	0.33%	96.43%
42.0	88.049	7.047	2344.349	0.27%	96.72%
43.0	75.112	6.044	2350.392	0.23%	96.97%
44.0	62.871	5.208	2355.6	0.20%	97.19%
45.0	53.331	4.466	2360.066	0.17%	97.37%
46.0	46.932	3.921	2363.987	0.15%	97.53%
47.0	41.071	3.500	2367.487	0.13%	97.68%
48.0	36.715	3.145	2370.632	0.12%	97.81%
49.0	33.798	2.896	2373.527	0.11%	97.93%
50.0	31.347	2.716	2376.244	0.10%	98.04%
51.0	29.231	2.563	2378.807	0.10%	98.14%
52.0	27.838	2.449	2381.255	0.09%	98.25%
53.0	26.807	2.377	2383.633	0.09%	98.34%
54.0	25.999	2.327	2385.96	0.09%	98.44%
55.0	25.440	2.296	2388.256	0.09%	98.53%
56.0	25.092	2.283	2390.54	0.09%	98.63%
57.0	24.796	2.281	2392.821	0.09%	98.72%
58.0	24.409	2.275	2395.096	0.09%	98.82%
59.0	24.060	2.266	2397.362	0.09%	98.91%
60.0	23.305	2.238	2399.6	0.09%	99.00%
61.0	22.332	2.178	2401.778	0.08%	99.09%
62.0	20.959	2.086	2403.864	0.08%	99.18%
63.0	19.251	1.956	2405.819	0.08%	99.26%
64.0	17.424	1.800	2407.619	0.07%	99.33%
65.0	15.309	1.620	2409.239	0.06%	99.40%
66.0	13.601	1.442	2410.681	0.06%	99.46%
67.0	11.971	1.286	2411.967	0.05%	99.51%
68.0	10.821	1.155	2413.122	0.04%	99.56%
69.0	9.580	1.041	2414.162	0.04%	99.60%
70.0	8.771	0.942	2415.105	0.04%	99.64%
71.0	8.081	0.871	2415.976	0.03%	99.68%
72.0	7.438	0.807	2416.783	0.03%	99.71%
73.0	6.905	0.750	2417.533	0.03%	99.74%
74.0	6.413	0.700	2418.233	0.03%	99.77%
75.0	5.979	0.655	2418.888	0.03%	99.80%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.565	0.613	2419.501	0.02%	99.82%
77.0	5.131	0.570	2420.071	0.02%	99.85%
78.0	4.711	0.527	2420.598	0.02%	99.87%
79.0	4.290	0.484	2421.081	0.02%	99.89%
80.0	3.850	0.439	2421.52	0.02%	99.91%
81.0	3.436	0.394	2421.914	0.02%	99.92%
82.0	3.055	0.352	2422.266	0.01%	99.94%
83.0	2.622	0.309	2422.575	0.01%	99.95%
84.0	2.240	0.265	2422.84	0.01%	99.96%
85.0	1.925	0.227	2423.067	0.01%	99.97%
86.0	1.636	0.195	2423.262	0.01%	99.98%
87.0	1.353	0.164	2423.425	0.01%	99.99%
88.0	1.143	0.137	2423.562	0.01%	99.99%
89.0	0.953	0.115	2423.677	0.00%	100.00%
90.0	0.887	0.101	2423.778	0.00%	100.00%

Zonal flux distribution table

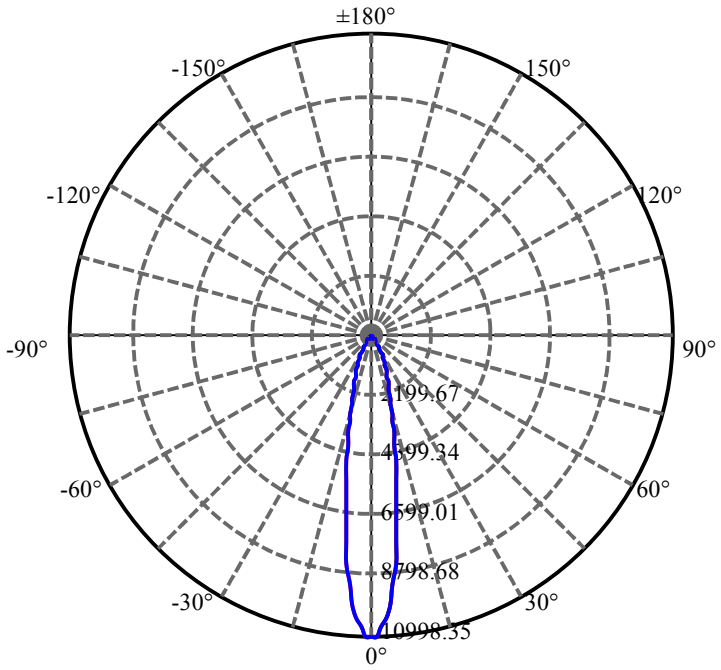
ZONAL LUMEN SUMMARY

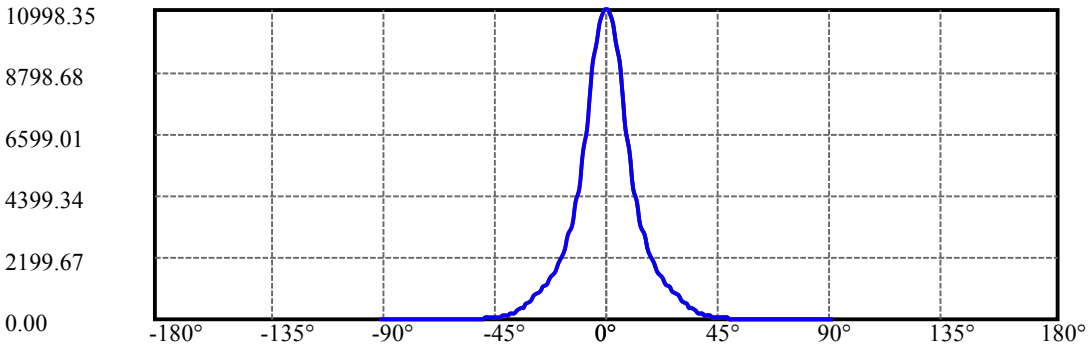
Zone	Lumens	%Lamp	%Fixt
0-30	2114.18	81.47%	87.23%
0-40	2328.70	89.74%	96.08%
0-60	2399.60	92.47%	99.00%
0-90	2423.68	93.40%	100.00%
0-120	2423.68	93.40%	100.00%
0-180	2423.78	93.40%	100.00%
60-90	24.08	0.93%	0.99%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.12	1939.02	74.72%	80.00%

ZONAL LUMEN SUMMARY

0-10	740.77
10-20	838.09
20-30	535.32
30-40	214.52
40-50	47.54
50-60	23.36
60-70	15.51
70-80	6.42
80-90	2.16
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):

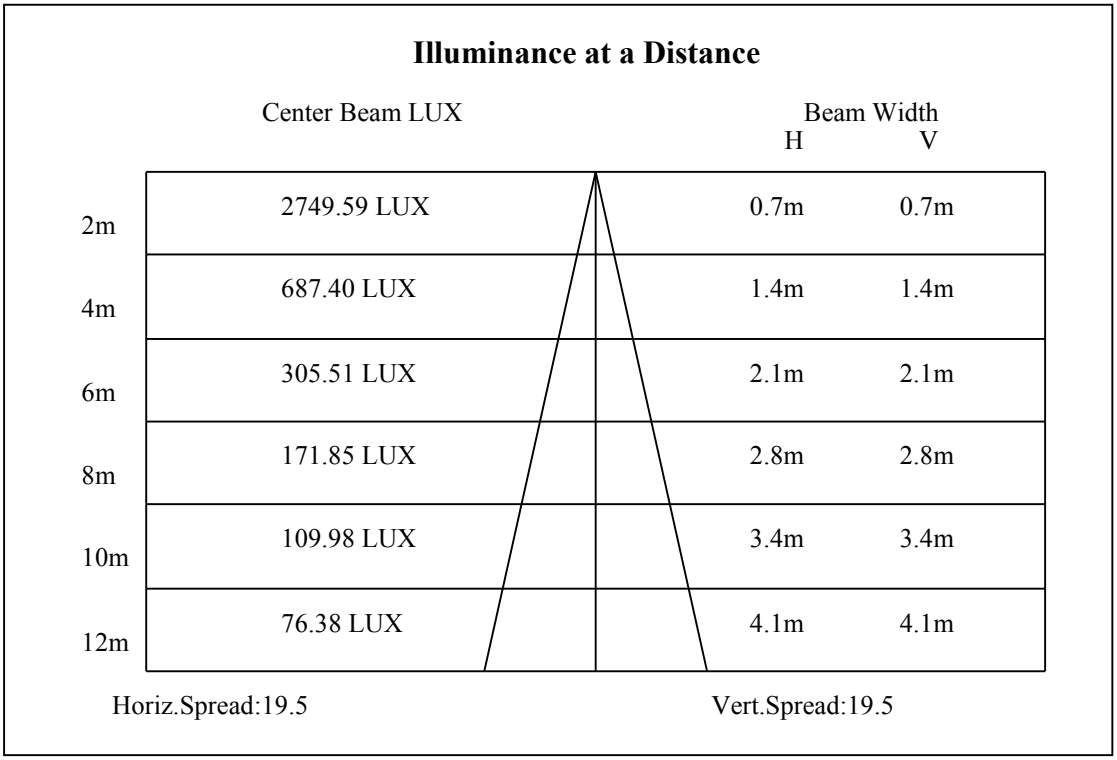
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:25.6 Right:25.6
:C90/270Left:25.6 Right:25.6

Beam Angle(50%Imax):C0/180Left:9.7 Right:9.7
:C90/270Left:9.7 Right:9.7

Lux distance Curve

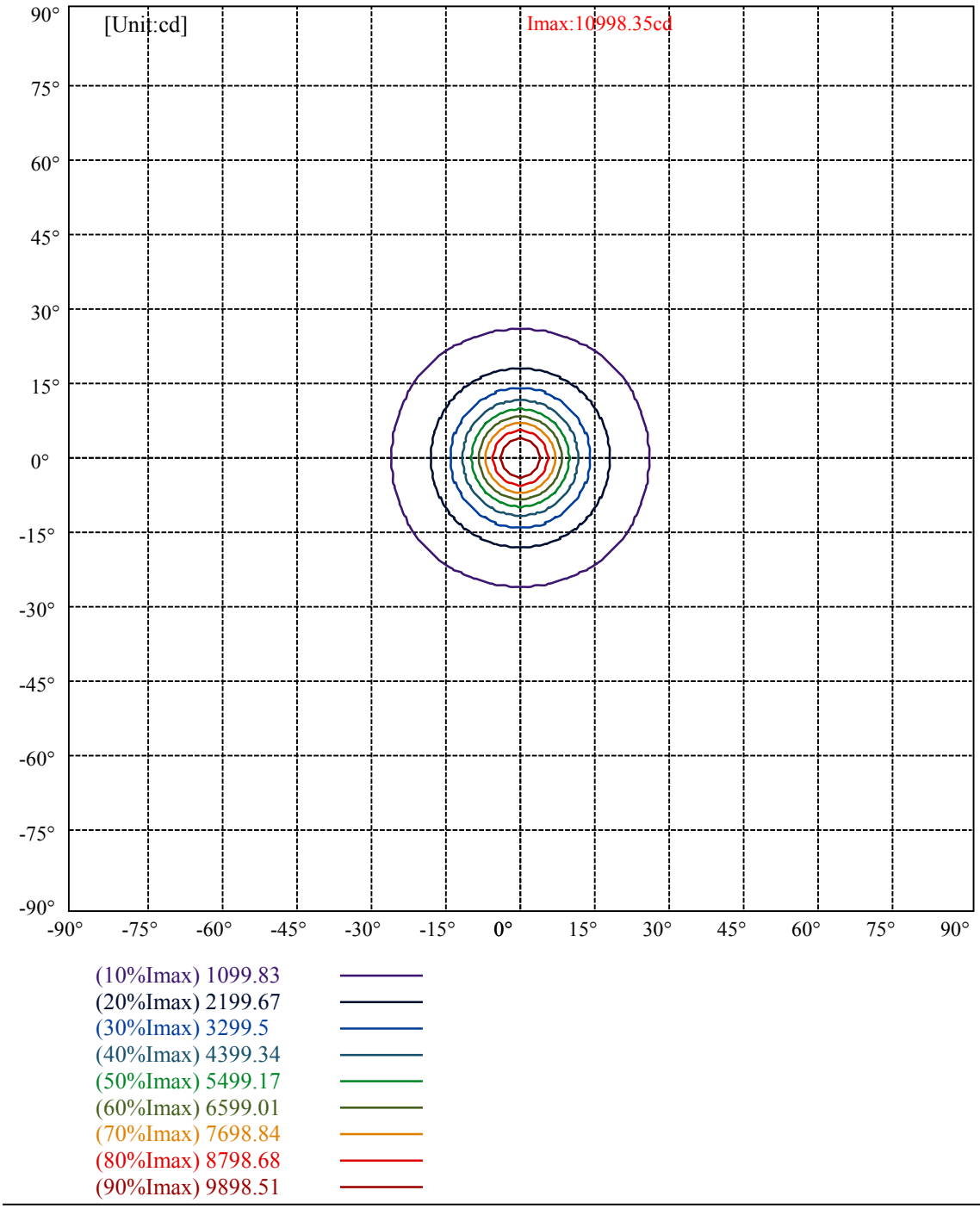


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/11
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)



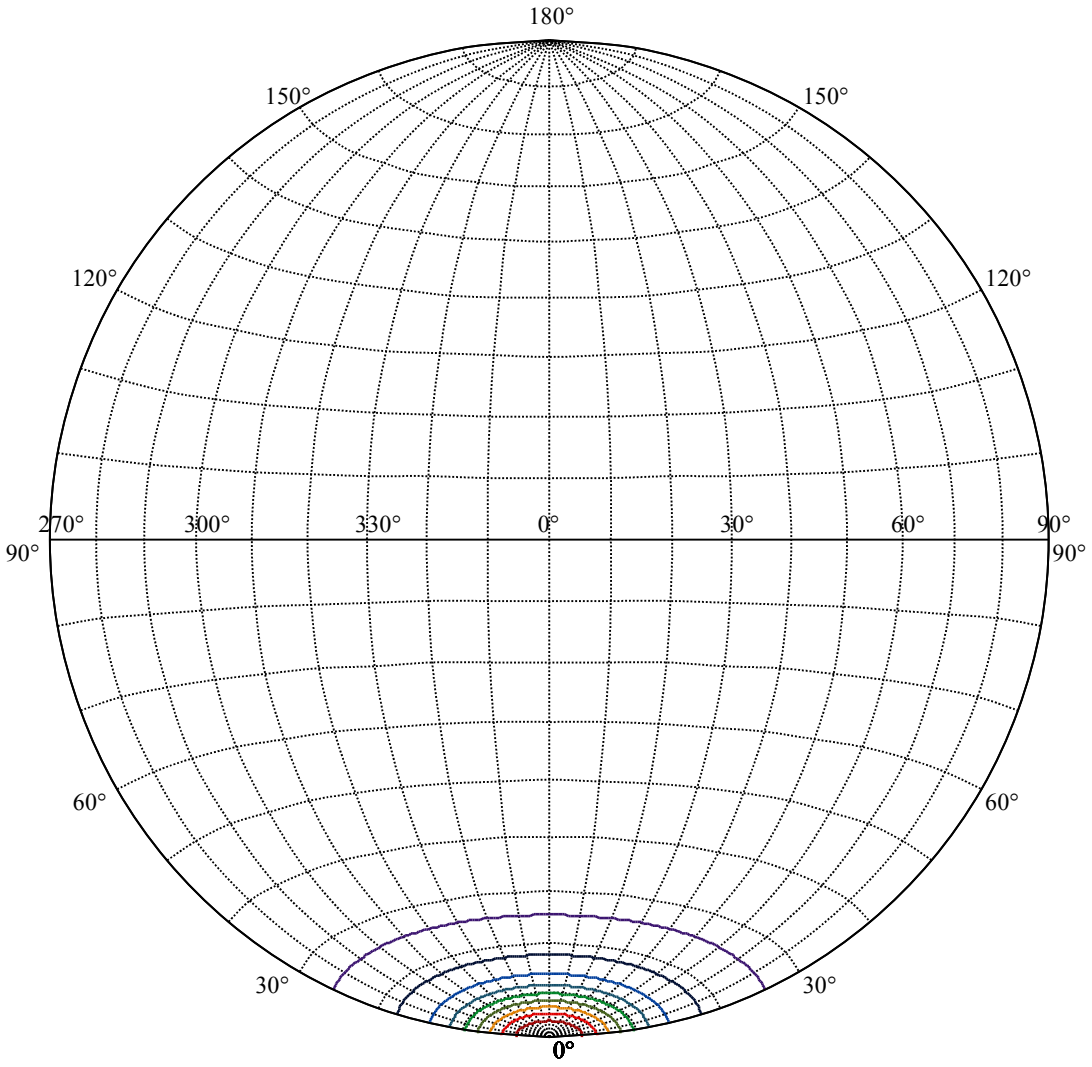
(10%Imax) 1099.83
(20%Imax) 2199.67
(30%Imax) 3299.5
(40%Imax) 4399.34
(50%Imax) 5499.17
(60%Imax) 6599.01
(70%Imax) 7698.84
(80%Imax) 8798.68
(90%Imax) 9898.51

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/11
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:10998.35

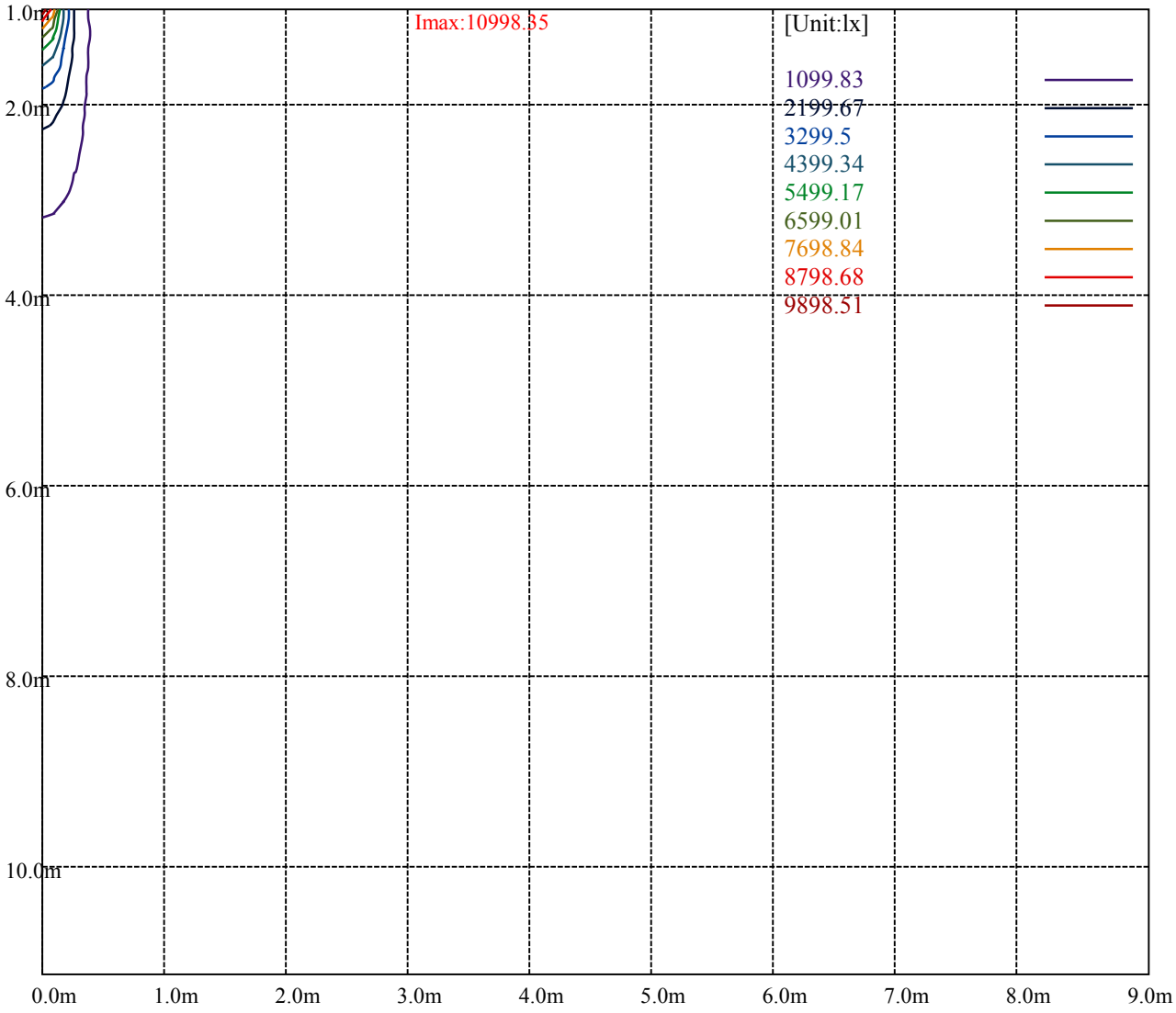
(10%Imax) 1099.83
(20%Imax) 2199.67
(30%Imax) 3299.5
(40%Imax) 4399.34
(50%Imax) 5499.17
(60%Imax) 6599.01
(70%Imax) 7698.84
(80%Imax) 8798.68
(90%Imax) 9898.51

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/11
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/11
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2748-L

Luminance Limitting Curve(no luminous side)

Luminance Table

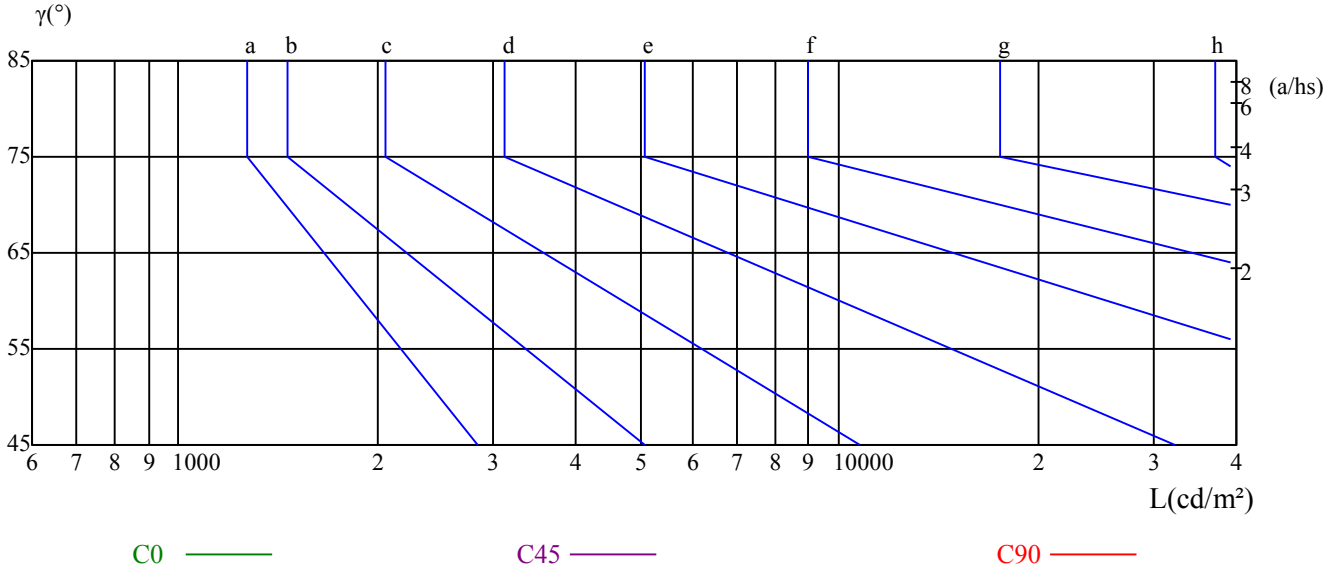
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

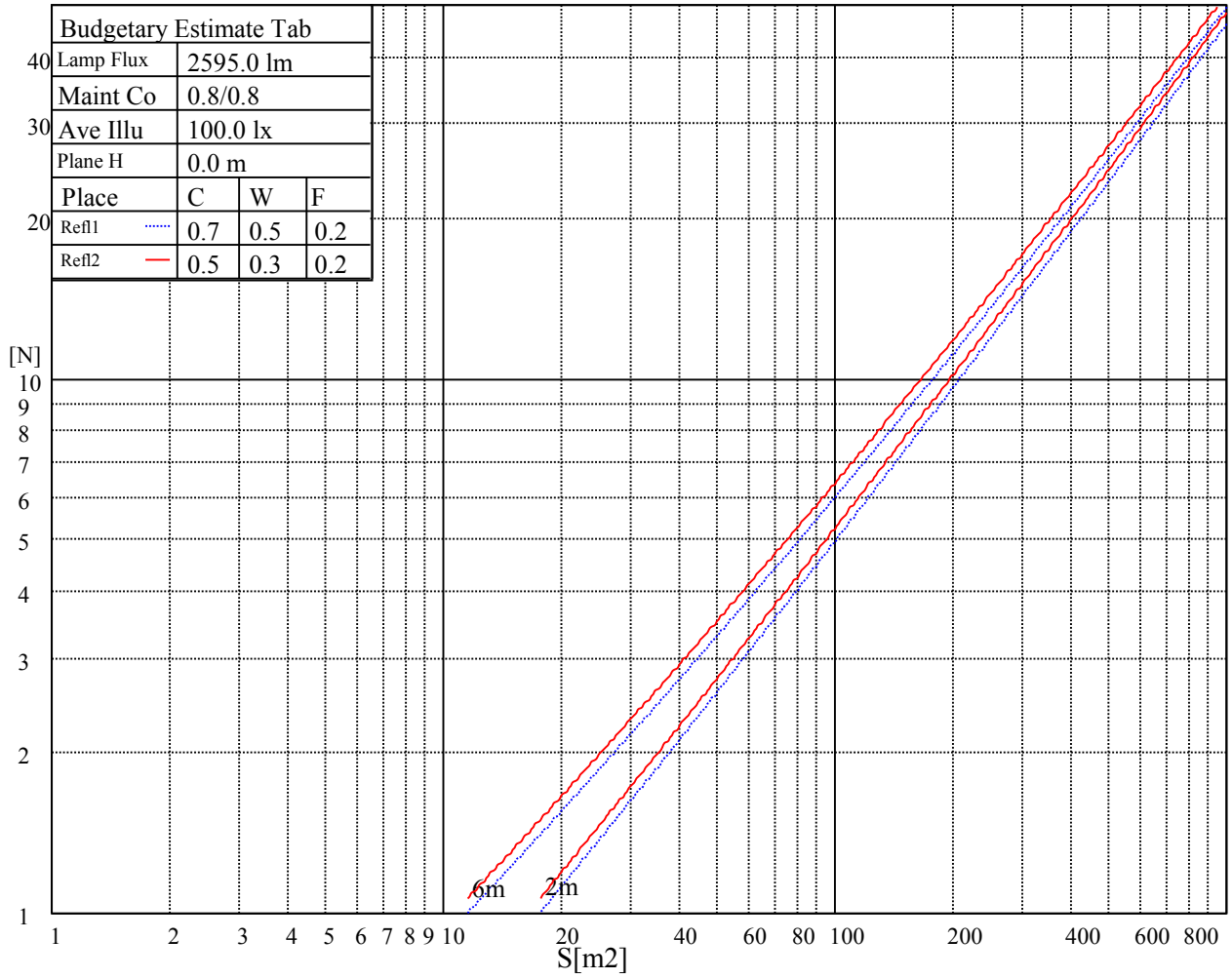
Date: 2024/9/11
Humidity(%): 60.0%

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

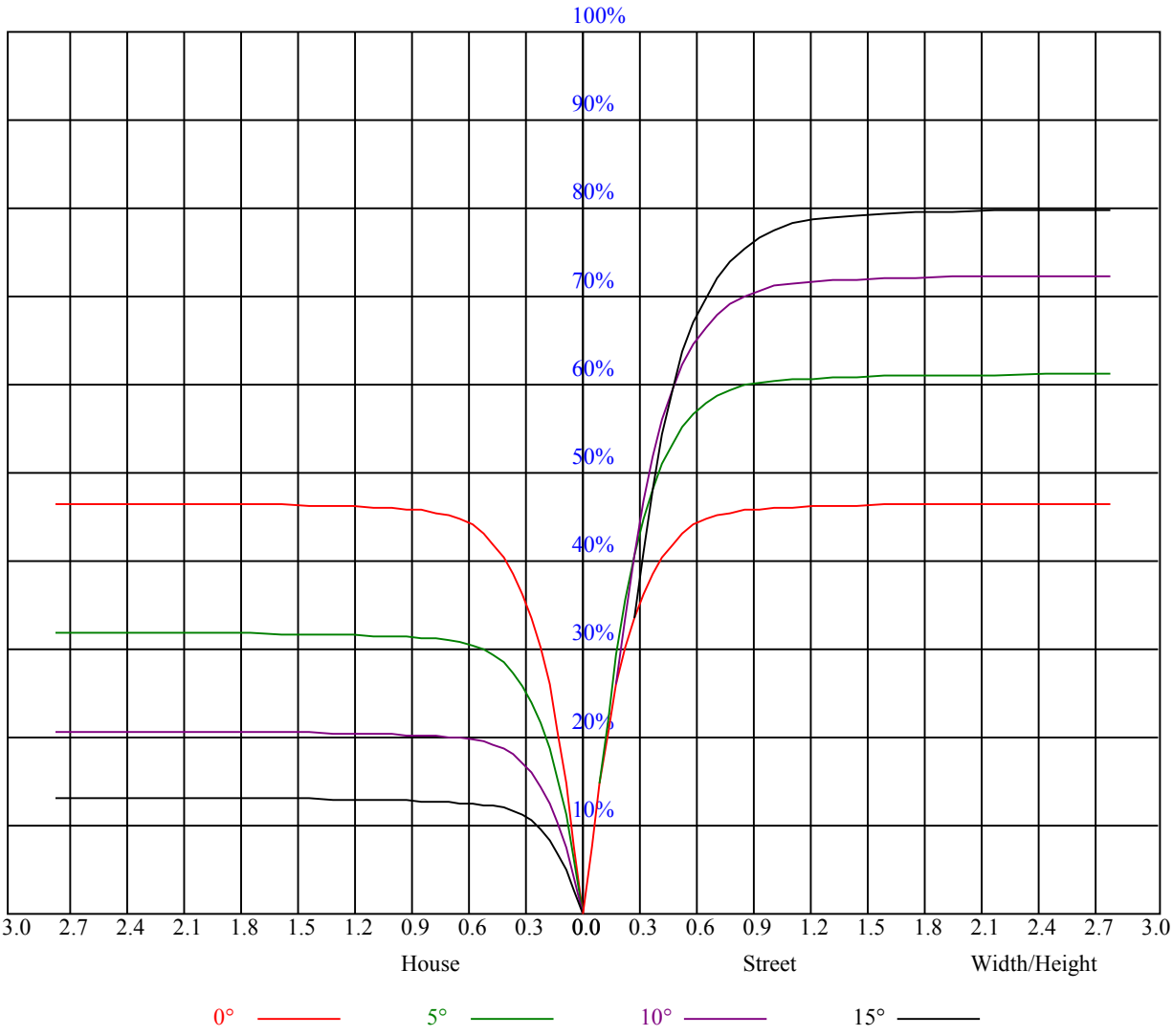
Date: 2024/9/11
Humidity(%): 60.0%

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	0.93
1	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.98	0.96	0.96	0.94	0.93	0.92	0.92	0.91	0.89
2	0.99	0.96	0.93	0.97	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.87	0.85
3	0.94	0.90	0.87	0.93	0.89	0.87	0.90	0.88	0.85	0.88	0.86	0.84	0.86	0.84	0.83	0.81
4	0.90	0.85	0.82	0.89	0.85	0.82	0.87	0.83	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.78
5	0.86	0.81	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.75
6	0.82	0.78	0.75	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
7	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.69
8	0.76	0.72	0.69	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67
9	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.71	0.68	0.65	0.64
10	0.71	0.67	0.64	0.70	0.66	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.69	0.65	0.63	0.62

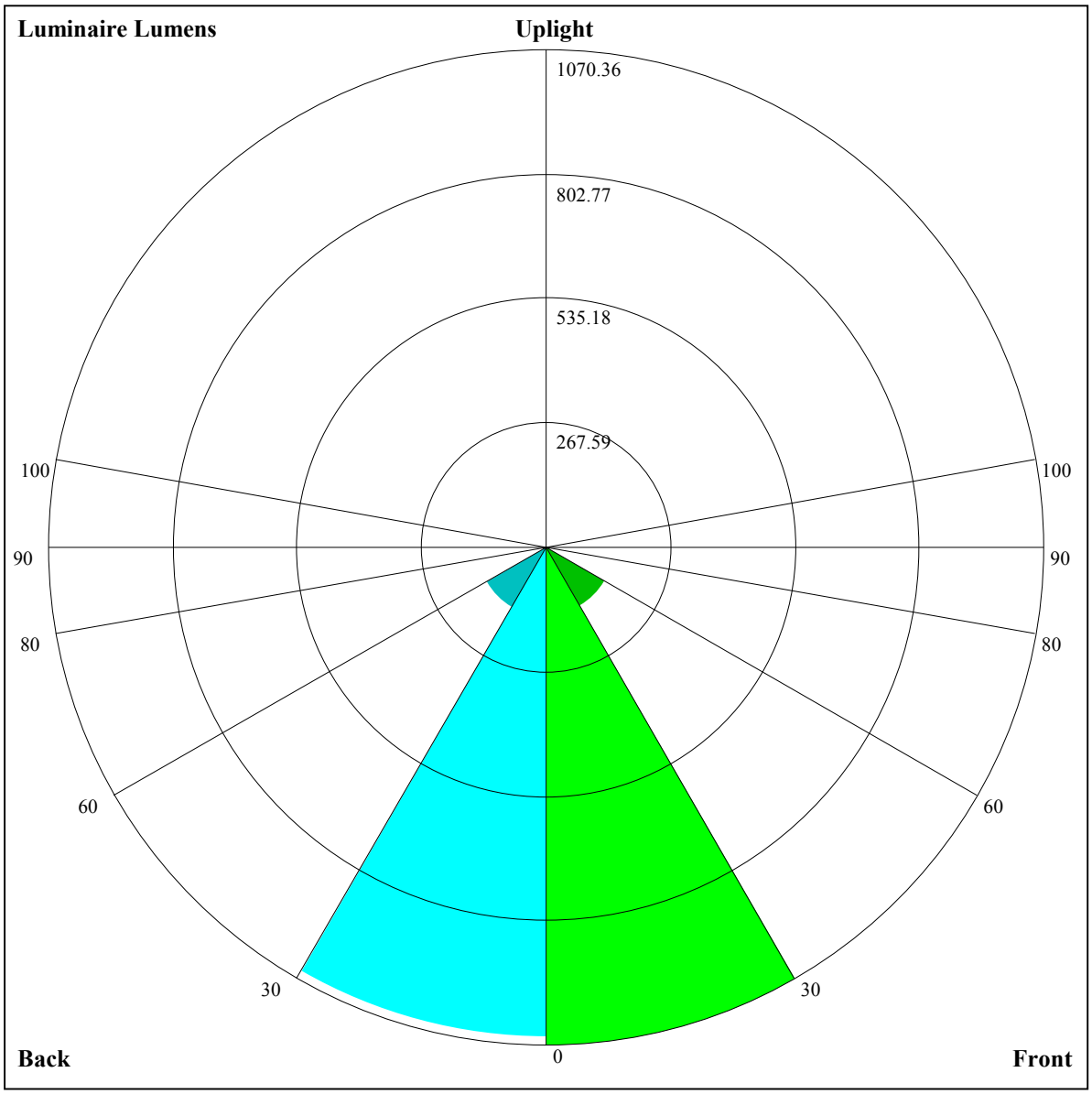
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/11
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=1070.36,FM=145.82,FH=11.16,FVH=1.18
BL=1053.69,BM=148.13,BH=10.78,BVH=1.13
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	11022.09	11022.09	10820.41	10459.94	9877.12	8979.51	8295.31	7404.43	6509.08
45.0	11047.17	11046.32	10773.32	10249.58	9753.71	9012.68	8171.37	7279.91	6394.02
90.0	10771.95	10360.17	9573.47	8771.68	8065.24	7159.28	6278.96	5474.44	4758.48
135.0	11152.19	10801.17	10305.30	9675.71	8917.96	8076.65	7380.20	6366.16	5719.85
180.0	11022.09	11163.33	10918.18	10517.02	9976.57	9307.98	8539.09	7703.35	6884.32
225.0	11047.17	11047.17	10888.90	10508.93	9999.70	9338.36	8585.61	7793.34	6974.31
270.0	10771.95	11007.59	11007.59	11302.62	11129.90	10806.74	10316.44	9703.56	8973.68
315.0	11152.19	11336.05	11071.66	11004.27	10842.70	10323.43	9663.72	8885.90	8049.63
360.0	11022.09	11022.09	10820.41	10459.94	9877.12	8979.51	8295.31	7404.43	6509.08

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5671.65	4910.02	4255.35	3718.22	3286.42	2932.62	2623.39	2362.11	2138.14
45.0	5569.42	4833.96	4193.23	3663.92	3240.48	2895.04	2828.18	2828.18	2128.10
90.0	4143.92	3637.43	3229.60	2875.27	2577.19	2318.64	2098.03	1921.95	1763.73
135.0	4995.54	4360.37	3819.93	3374.20	3012.04	2822.61	2822.61	2211.09	2008.31
180.0	6093.15	5368.84	4694.67	4338.09	3641.64	3240.48	3028.76	2772.46	2772.46
225.0	6190.39	5466.08	4809.15	4222.45	3732.73	3319.32	3101.45	2668.55	2501.98
270.0	8176.94	7341.19	6516.59	6037.43	5028.97	4638.96	4059.51	3402.06	3173.62
315.0	7164.32	6636.65	5810.94	5038.69	4367.89	3820.19	3366.10	2989.49	2666.34
360.0	5671.65	4910.02	4255.35	3718.22	3286.42	2932.62	2623.39	2362.11	2138.14

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1952.59	1791.59	1648.36	1518.58	1401.00	1288.99	1088.46	1088.46	1029.80
45.0	2012.78	1840.06	1690.15	1549.23	1425.50	1310.17	1203.21	1100.71	1001.53
90.0	1621.66	1494.61	1377.61	1228.86	1102.60	1102.60	1003.47	900.45	799.16
135.0	1840.06	1692.41	1557.58	1434.43	1320.21	1252.77	1110.17	1052.77	960.26
180.0	2177.14	1985.44	1819.45	1679.58	1550.33	1432.22	1320.79	1218.82	1119.63
225.0	2266.81	2057.35	1884.05	1731.93	1600.48	1477.90	1366.47	1232.17	1091.93
270.0	2833.75	2833.75	2254.56	2047.31	1867.91	1716.38	1585.97	1462.87	1352.54
315.0	2394.96	2162.63	1964.84	1805.52	1661.19	1534.72	1416.03	1309.65	1079.27
360.0	1952.59	1791.59	1648.36	1518.58	1401.00	1288.99	1088.46	1088.46	1029.80

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	932.04	833.22	733.25	632.33	535.35	446.99	371.67	310.75	260.45
45.0	904.02	804.26	704.55	605.36	511.22	425.39	354.64	297.82	297.82
90.0	697.66	597.85	501.87	414.46	345.44	290.09	244.47	204.78	171.46
135.0	867.23	770.30	672.80	575.82	483.89	402.58	335.14	291.14	291.14
180.0	1024.34	930.20	873.90	778.08	641.05	581.97	488.36	405.36	337.40
225.0	1055.30	960.00	864.60	768.20	668.44	608.31	476.64	425.81	353.80
270.0	1247.78	1146.91	1088.99	956.37	900.13	806.52	711.80	618.19	527.94
315.0	1079.27	1040.42	943.92	844.00	744.71	641.79	543.18	452.62	374.40
360.0	932.04	833.22	733.25	632.33	535.35	446.99	371.67	310.75	260.45

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	218.50	182.50	151.91	130.57	103.97	86.10	74.32	62.50	52.98
45.0	278.32	181.66	151.33	125.41	103.97	86.68	72.59	61.29	52.62
90.0	143.34	119.63	100.24	84.26	73.80	61.50	53.30	48.15	42.68
135.0	189.07	156.32	138.92	105.97	94.30	77.85	60.55	54.61	46.62
180.0	303.39	303.39	195.90	162.42	133.40	109.96	90.67	75.06	64.86
225.0	295.87	247.36	206.31	171.62	142.18	117.27	96.87	80.21	66.81
270.0	441.58	367.46	307.86	287.25	277.74	179.34	149.17	123.36	102.08
315.0	313.27	262.87	220.87	184.91	154.80	128.57	106.91	95.72	74.32
360.0	218.50	182.50	151.91	130.57	103.97	86.10	74.32	62.50	52.98

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	45.73	40.47	36.48	33.48	31.27	29.22	27.49	26.39	25.55
45.0	45.94	41.00	37.00	34.11	31.75	29.44	27.91	27.33	25.91
90.0	38.16	34.80	31.96	29.44	28.07	27.07	26.07	25.60	25.65
135.0	40.79	36.48	33.43	30.85	28.86	27.23	26.28	25.34	24.91
180.0	52.62	45.15	40.58	35.58	33.32	30.85	28.86	27.44	26.60
225.0	56.19	47.88	41.79	37.42	34.22	32.59	29.33	27.91	27.23
270.0	84.47	72.75	60.87	49.78	44.42	39.11	35.27	32.54	30.28
315.0	62.76	56.93	46.47	43.05	38.48	35.27	32.64	30.17	28.33
360.0	45.73	40.47	36.48	33.48	31.27	29.22	27.49	26.39	25.55

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	24.70	24.65	24.55	24.34	24.18	24.28	23.65	22.50	21.24
45.0	25.18	25.07	24.76	24.60	24.34	24.39	23.86	22.76	21.60
90.0	25.49	25.12	25.02	24.55	23.50	21.97	20.29	18.98	15.66
135.0	25.02	24.81	24.55	24.55	24.39	23.76	22.02	20.55	19.19
180.0	25.65	25.07	25.02	24.76	24.34	24.34	23.97	22.71	21.55
225.0	26.18	25.34	25.23	24.91	24.49	24.34	23.97	23.07	21.71
270.0	28.49	27.33	26.33	25.55	25.23	24.97	24.49	24.23	23.76
315.0	27.28	26.12	25.28	25.12	24.81	24.44	24.18	23.86	22.97
360.0	24.70	24.65	24.55	24.34	24.18	24.28	23.65	22.50	21.24

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.08	17.66	14.61	13.40	11.51	10.35	9.30	8.41	7.73
45.0	19.66	17.14	15.09	12.98	11.30	10.20	9.20	8.36	7.73
90.0	13.67	12.51	10.62	9.93	9.04	8.36	7.67	7.15	6.68
135.0	15.66	14.51	12.62	11.09	9.93	8.99	8.25	7.67	7.10
180.0	19.97	17.50	15.30	13.35	11.51	10.72	9.36	8.52	8.04
225.0	20.39	18.13	15.82	13.98	12.14	10.72	9.72	8.88	8.20
270.0	22.92	21.66	20.34	18.19	15.98	14.82	12.30	11.41	10.25
315.0	21.66	20.29	18.08	15.87	14.35	12.40	10.83	9.78	8.94
360.0	20.08	17.66	14.61	13.40	11.51	10.35	9.30	8.41	7.73

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.15	6.68	6.15	5.73	5.41	4.99	4.52	4.05	3.68
45.0	7.15	6.73	6.10	5.73	5.41	4.94	4.47	4.10	3.68
90.0	6.15	5.78	5.41	4.99	4.57	4.10	3.68	3.21	2.79
135.0	6.62	6.10	5.73	5.41	4.94	4.52	4.10	3.73	3.15
180.0	7.46	6.89	6.41	5.99	5.57	5.15	4.84	4.36	3.94
225.0	7.52	6.99	6.62	6.20	5.78	5.41	4.99	4.57	4.10
270.0	9.36	8.62	7.94	7.31	6.83	6.36	5.94	5.52	5.10
315.0	8.09	7.46	6.94	6.47	5.99	5.57	5.15	4.78	4.36
360.0	7.15	6.68	6.15	5.73	5.41	4.99	4.52	4.05	3.68

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.26	2.89	2.42	2.10	1.79	1.52	1.26	1.05	0.89
45.0	3.21	2.79	2.37	2.00	1.73	1.42	1.21	0.95	0.68
90.0	2.37	2.10	1.68	1.42	1.21	1.05	0.79	0.89	0.89
135.0	2.79	2.42	2.10	1.73	1.42	1.21	1.00	0.79	0.68
180.0	3.47	3.05	2.52	2.21	1.89	1.52	1.26	1.05	0.89
225.0	3.68	3.26	2.89	2.42	2.05	1.79	1.42	1.16	0.89
270.0	4.73	4.31	3.78	3.31	2.94	2.47	2.16	1.84	1.47
315.0	3.99	3.63	3.21	2.73	2.37	2.10	1.73	1.42	1.21
360.0	3.26	2.89	2.42	2.10	1.79	1.52	1.26	1.05	0.89

Intensity data(cd)

C/γ(°)	90.0
0.0	0.84
45.0	0.79
90.0	0.89
135.0	0.79
180.0	0.68
225.0	0.84
270.0	1.16
315.0	1.10
360.0	0.84