NATA LIGHTING CO.,LTD.
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Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

Client:
LumCAT: 2-2759-L
Luminaire: 92.70.411.00
Report No: 2024910-B015
Ballast type: AC

Test No: 2024910-C015	Voltage(V): 33.870
LampCAT: NICHIA NFCWJ120B-V3	Current(A): 0.580
Lamp flux(lm): 2597.0	Power (W): 19.640
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2412.39, Efficiency(%): 92.89% , Luminous Efficacy(lm/W): 122.83
Central intensity(cd): 4922.820, Maximum intensity(cd): 4922.820
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=38.4
[C90/270]Total=38.4
Field angle(10%Imax): [C0/180]Total=68.4
[C90/270]Total=68.4
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(%): 92.89%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.038%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4922.820	0.000	0	0.00%	0.00%
1.0	4914.121	4.707	4.707	0.18%	0.20%
2.0	4887.445	14.068	18.775	0.54%	0.78%
3.0	4835.960	23.255	42.03	0.90%	1.74%
4.0	4753.930	32.100	74.131	1.24%	3.07%
5.0	4657.405	40.487	114.618	1.56%	4.75%
6.0	4547.090	48.372	162.99	1.86%	6.76%
7.0	4420.894	55.664	218.654	2.14%	9.06%
8.0	4288.430	62.331	280.985	2.40%	11.65%
9.0	4142.313	68.327	349.311	2.63%	14.48%
10.0	3973.068	73.441	422.753	2.83%	17.52%
11.0	3848.409	78.153	500.905	3.01%	20.76%
12.0	3665.801	82.141	583.046	3.16%	24.17%
13.0	3500.038	85.040	668.087	3.27%	27.69%
14.0	3341.247	87.568	755.655	3.37%	31.32%
15.0	3169.085	89.377	845.031	3.44%	35.03%
16.0	3004.440	90.459	935.491	3.48%	38.78%
17.0	2822.120	90.735	1026.226	3.49%	42.54%
18.0	2661.384	90.411	1116.637	3.48%	46.29%
19.0	2492.619	89.669	1206.306	3.45%	50.00%
20.0	2332.645	88.316	1294.622	3.40%	53.67%
21.0	2176.915	86.593	1381.215	3.33%	57.25%
22.0	2026.061	84.461	1465.675	3.25%	60.76%
23.0	1880.023	81.960	1547.635	3.16%	64.15%
24.0	1736.829	79.077	1626.713	3.04%	67.43%
25.0	1579.490	75.406	1702.119	2.90%	70.56%
26.0	1461.021	71.772	1773.89	2.76%	73.53%
27.0	1313.675	67.884	1841.774	2.61%	76.35%
28.0	1168.951	62.855	1904.628	2.42%	78.95%
29.0	1076.946	58.759	1963.387	2.26%	81.39%
30.0	944.772	54.586	2017.973	2.10%	83.65%
31.0	842.406	49.735	2067.708	1.92%	85.71%
32.0	723.595	44.864	2112.572	1.73%	87.57%
33.0	615.297	39.444	2152.016	1.52%	89.21%
34.0	511.394	34.097	2186.113	1.31%	90.62%
35.0	427.327	29.153	2215.266	1.12%	91.83%
36.0	359.922	25.066	2240.333	0.97%	92.87%
37.0	295.861	21.388	2261.721	0.82%	93.75%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	251.755	18.279	2279.999	0.70%	94.51%
39.0	199.659	15.408	2295.407	0.59%	95.15%
40.0	165.408	12.732	2308.139	0.49%	95.68%
41.0	143.121	10.987	2319.126	0.42%	96.13%
42.0	113.344	9.318	2328.444	0.36%	96.52%
43.0	94.803	7.710	2336.154	0.30%	96.84%
44.0	78.614	6.545	2342.699	0.25%	97.11%
45.0	66.367	5.572	2348.271	0.21%	97.34%
46.0	56.695	4.813	2353.084	0.19%	97.54%
47.0	49.895	4.239	2357.323	0.16%	97.72%
48.0	43.377	3.771	2361.094	0.15%	97.87%
49.0	38.732	3.372	2364.466	0.13%	98.01%
50.0	35.440	3.092	2367.558	0.12%	98.14%
51.0	31.873	2.848	2370.406	0.11%	98.26%
52.0	29.198	2.621	2373.027	0.10%	98.37%
53.0	27.070	2.448	2375.474	0.09%	98.47%
54.0	24.974	2.294	2377.768	0.09%	98.56%
55.0	23.344	2.157	2379.925	0.08%	98.65%
56.0	21.859	2.043	2381.968	0.08%	98.74%
57.0	20.552	1.939	2383.907	0.07%	98.82%
58.0	19.330	1.844	2385.751	0.07%	98.90%
59.0	18.206	1.755	2387.506	0.07%	98.97%
60.0	17.142	1.670	2389.176	0.06%	99.04%
61.0	16.222	1.592	2390.768	0.06%	99.10%
62.0	15.401	1.524	2392.292	0.06%	99.17%
63.0	14.639	1.461	2393.753	0.06%	99.23%
64.0	13.877	1.399	2395.152	0.05%	99.29%
65.0	13.154	1.338	2396.49	0.05%	99.34%
66.0	12.411	1.276	2397.765	0.05%	99.39%
67.0	11.610	1.208	2398.973	0.05%	99.44%
68.0	10.959	1.143	2400.116	0.04%	99.49%
69.0	10.230	1.081	2401.197	0.04%	99.54%
70.0	9.566	1.017	2402.214	0.04%	99.58%
71.0	9.054	0.962	2403.177	0.04%	99.62%
72.0	8.469	0.911	2404.088	0.04%	99.66%
73.0	7.950	0.859	2404.946	0.03%	99.69%
74.0	7.457	0.810	2405.756	0.03%	99.72%
75.0	6.958	0.762	2406.518	0.03%	99.76%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.491	0.714	2407.232	0.03%	99.79%
77.0	5.979	0.665	2407.897	0.03%	99.81%
78.0	5.486	0.614	2408.511	0.02%	99.84%
79.0	5.000	0.563	2409.074	0.02%	99.86%
80.0	4.534	0.514	2409.588	0.02%	99.88%
81.0	4.074	0.465	2410.053	0.02%	99.90%
82.0	3.607	0.417	2410.47	0.02%	99.92%
83.0	3.180	0.369	2410.839	0.01%	99.94%
84.0	2.773	0.324	2411.163	0.01%	99.95%
85.0	2.411	0.283	2411.446	0.01%	99.96%
86.0	2.109	0.247	2411.693	0.01%	99.97%
87.0	1.794	0.214	2411.907	0.01%	99.98%
88.0	1.531	0.182	2412.089	0.01%	99.99%
89.0	1.380	0.160	2412.248	0.01%	99.99%
90.0	1.248	0.144	2412.392	0.01%	100.00%

Zonal flux distribution table

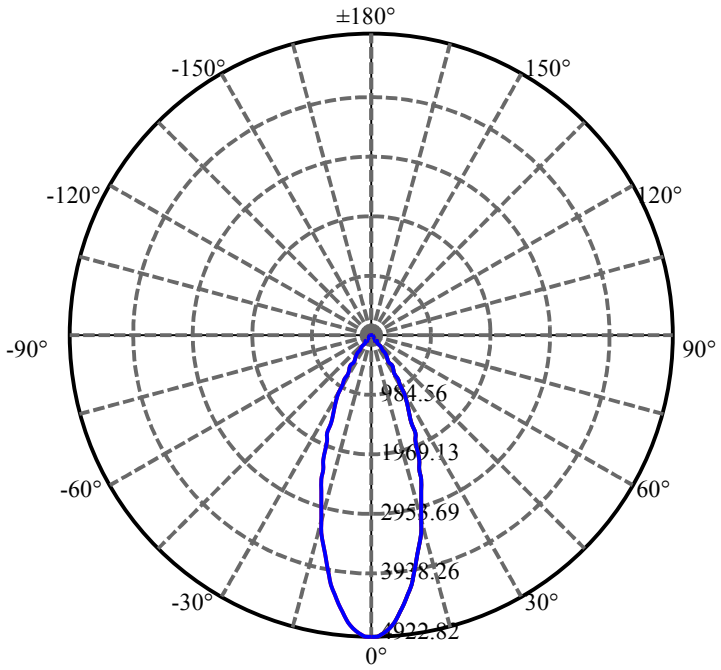
ZONAL LUMEN SUMMARY

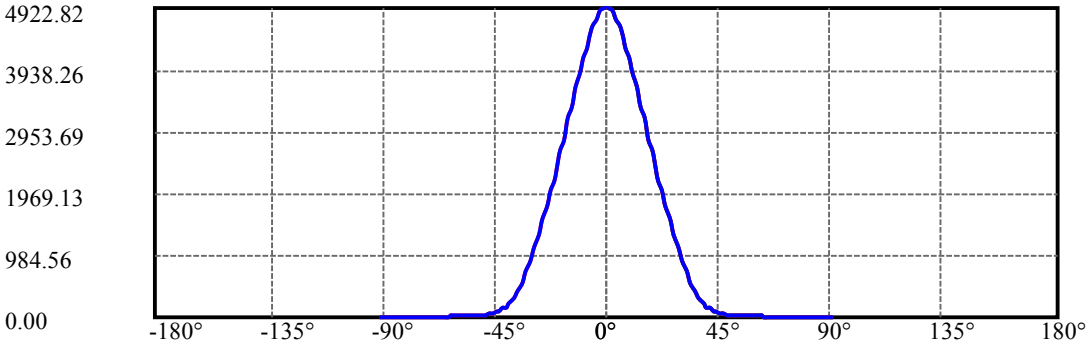
Zone	Lumens	%Lamp	%Fixt
0-30	2017.97	77.70%	83.65%
0-40	2308.14	88.88%	95.68%
0-60	2389.18	92.00%	99.04%
0-90	2412.25	92.89%	99.99%
0-120	2412.25	92.89%	99.99%
0-180	2412.39	92.89%	100.00%
60-90	23.07	0.89%	0.96%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.43	1929.91	74.31%	80.00%

ZONAL LUMEN SUMMARY

0-10	422.75
10-20	871.87
20-30	723.35
30-40	290.17
40-50	59.42
50-60	21.62
60-70	13.04
70-80	7.37
80-90	2.66
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):

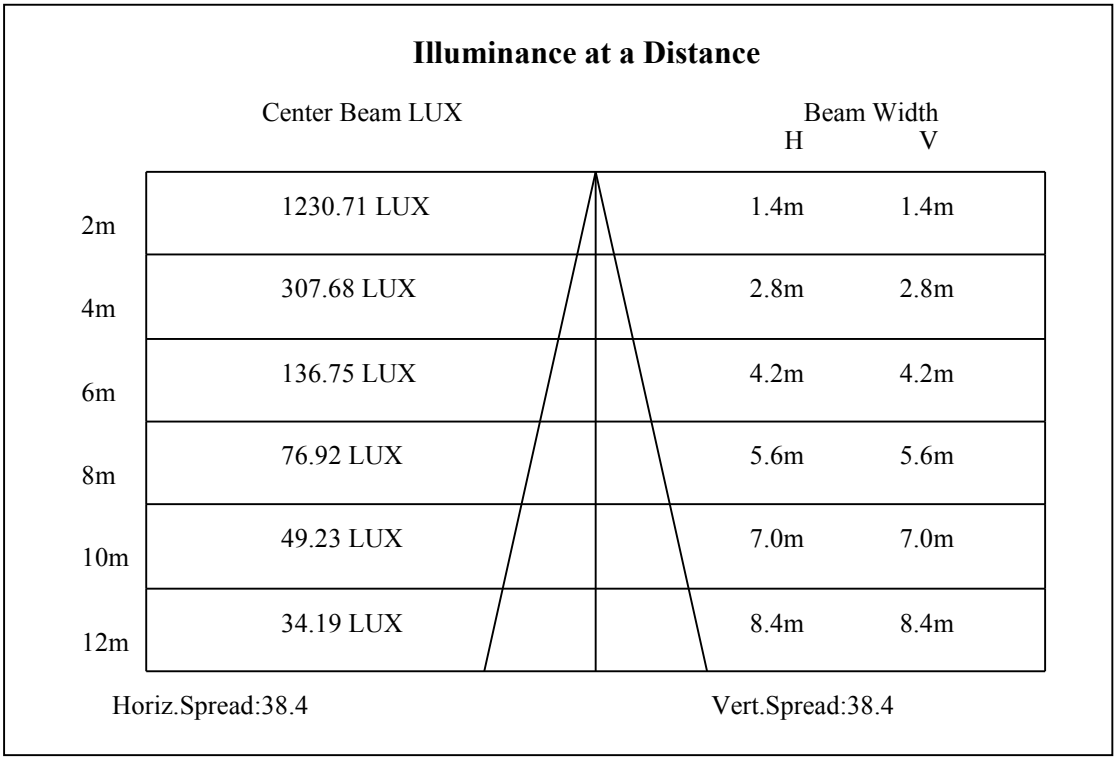
C0/C180:

C90/C270:

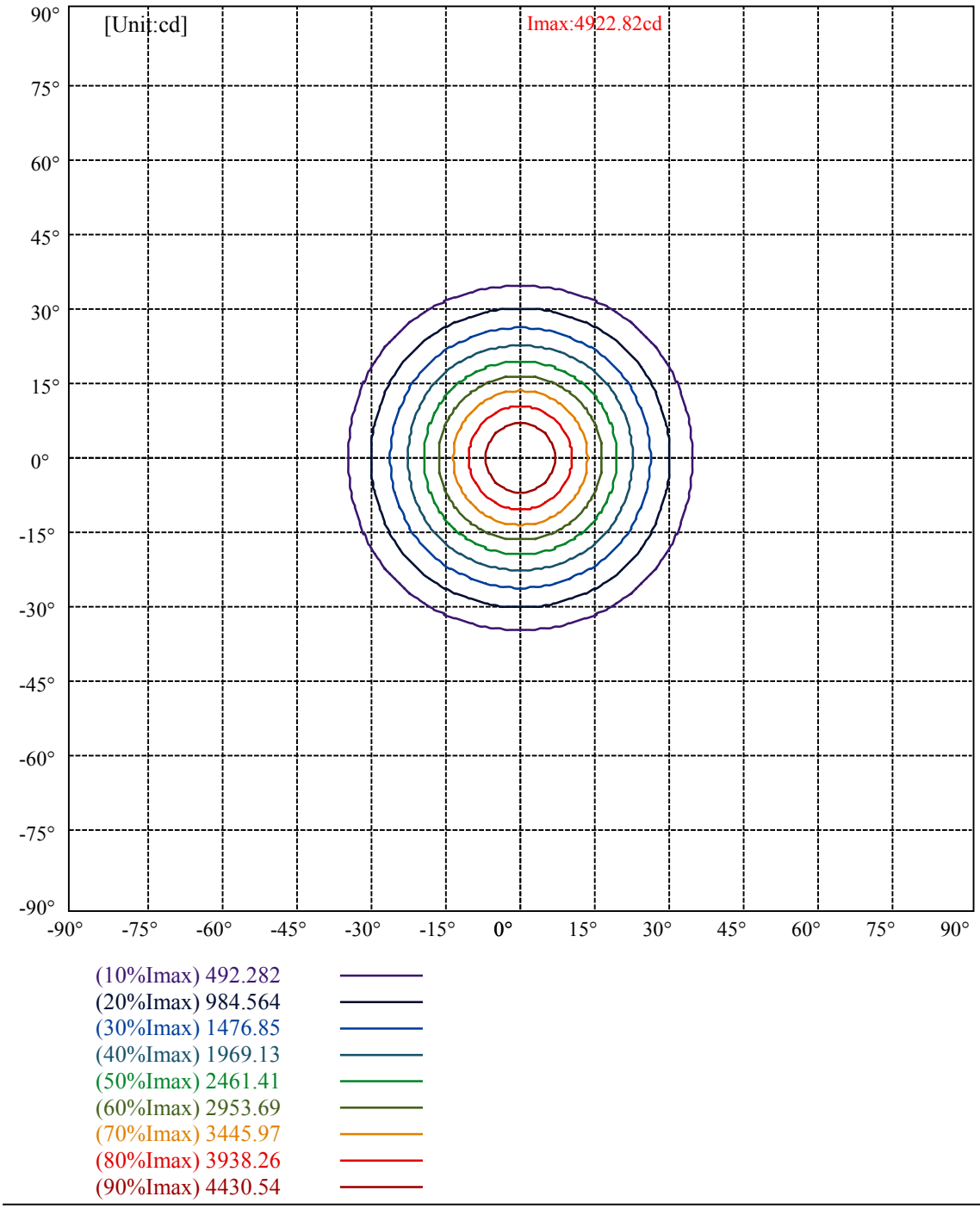
Field angle(10%Imax):C0/180Left:34.2 Right:34.2
:C90/270Left:34.2 Right:34.2

Beam Angle(50%Imax):C0/180Left:19.2 Right:19.2
:C90/270Left:19.2 Right:19.2

Lux distance Curve



ISO-Intensity(V-H)



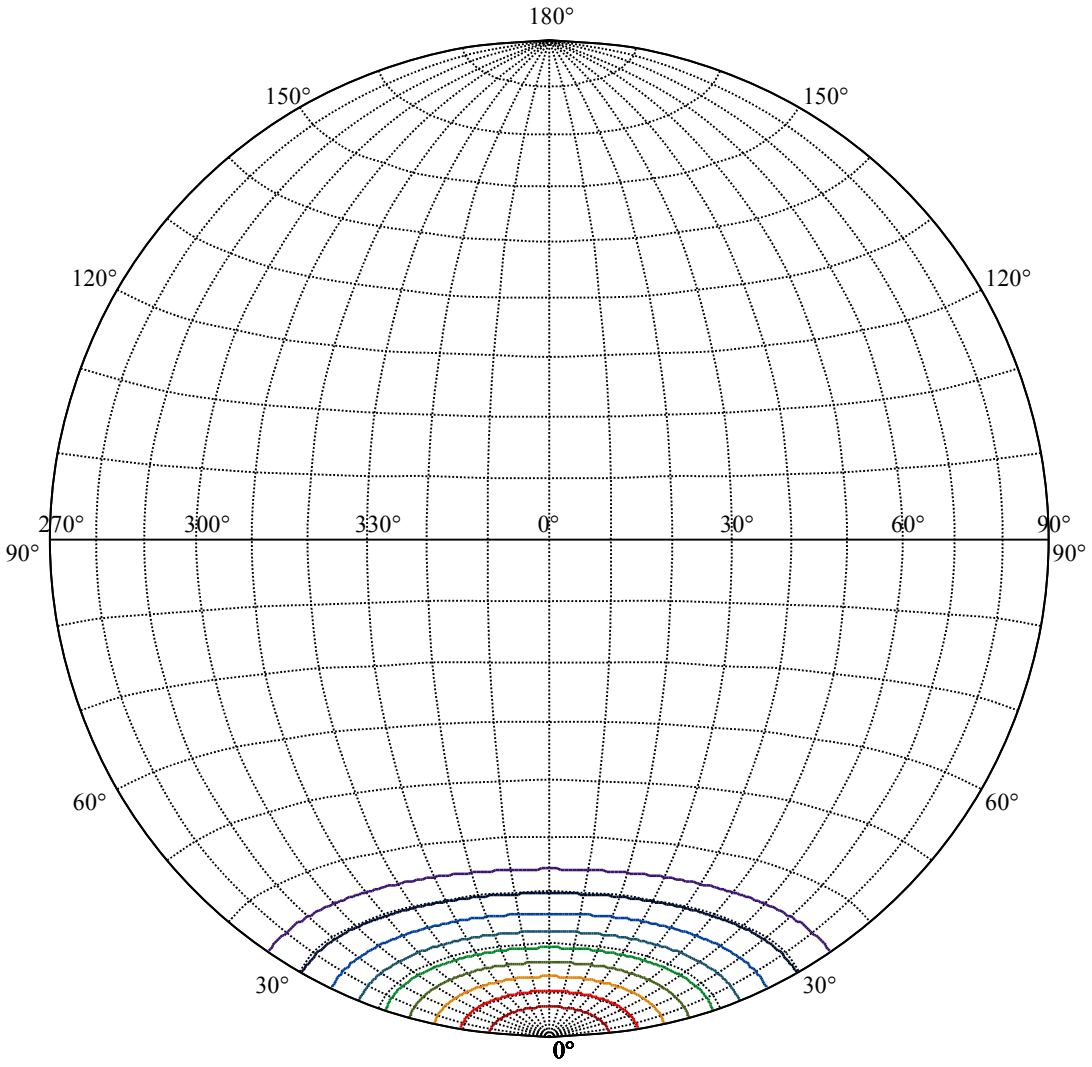
(10%Imax) 492.282
(20%Imax) 984.564
(30%Imax) 1476.85
(40%Imax) 1969.13
(50%Imax) 2461.41
(60%Imax) 2953.69
(70%Imax) 3445.97
(80%Imax) 3938.26
(90%Imax) 4430.54

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/10
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:4922.82

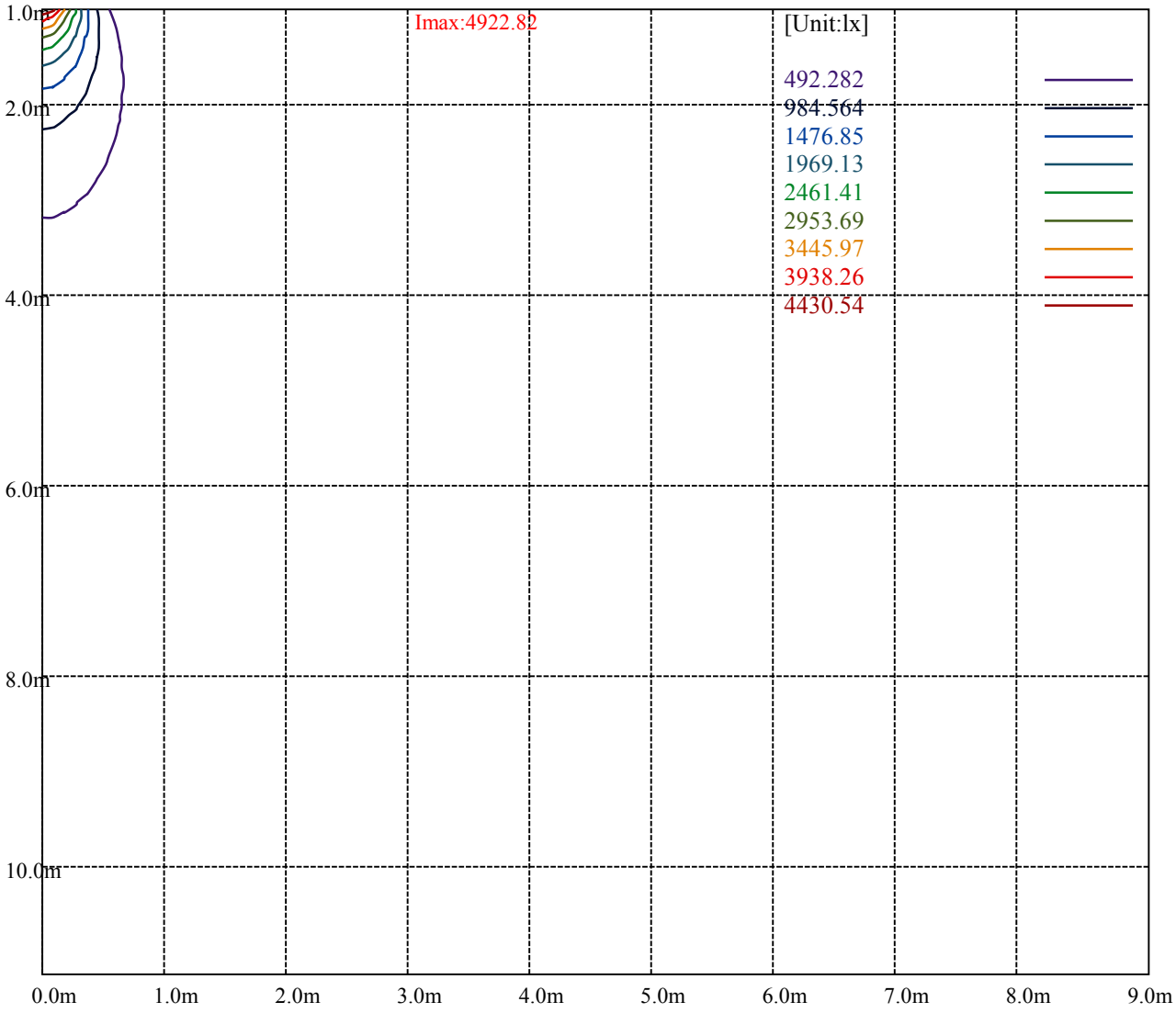
(10%Imax) 492.282
(20%Imax) 984.564
(30%Imax) 1476.85
(40%Imax) 1969.13
(50%Imax) 2461.41
(60%Imax) 2953.69
(70%Imax) 3445.97
(80%Imax) 3938.26
(90%Imax) 4430.54

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/10
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/10
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Luminance Limitting Curve(no luminous side)

Luminance Table

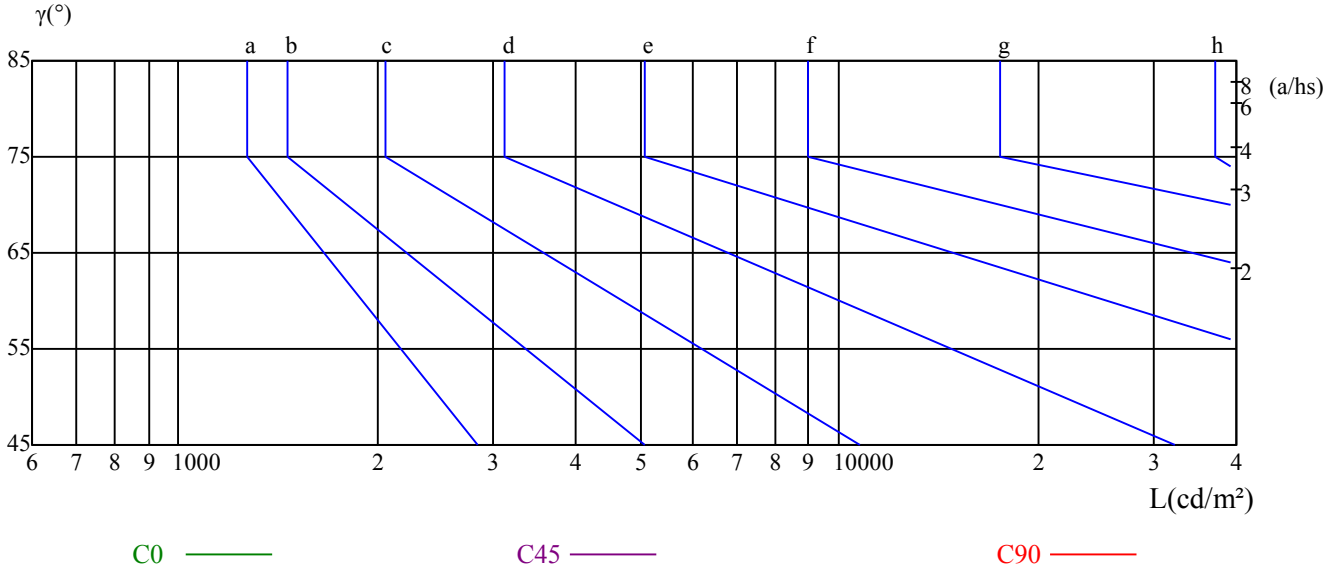
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

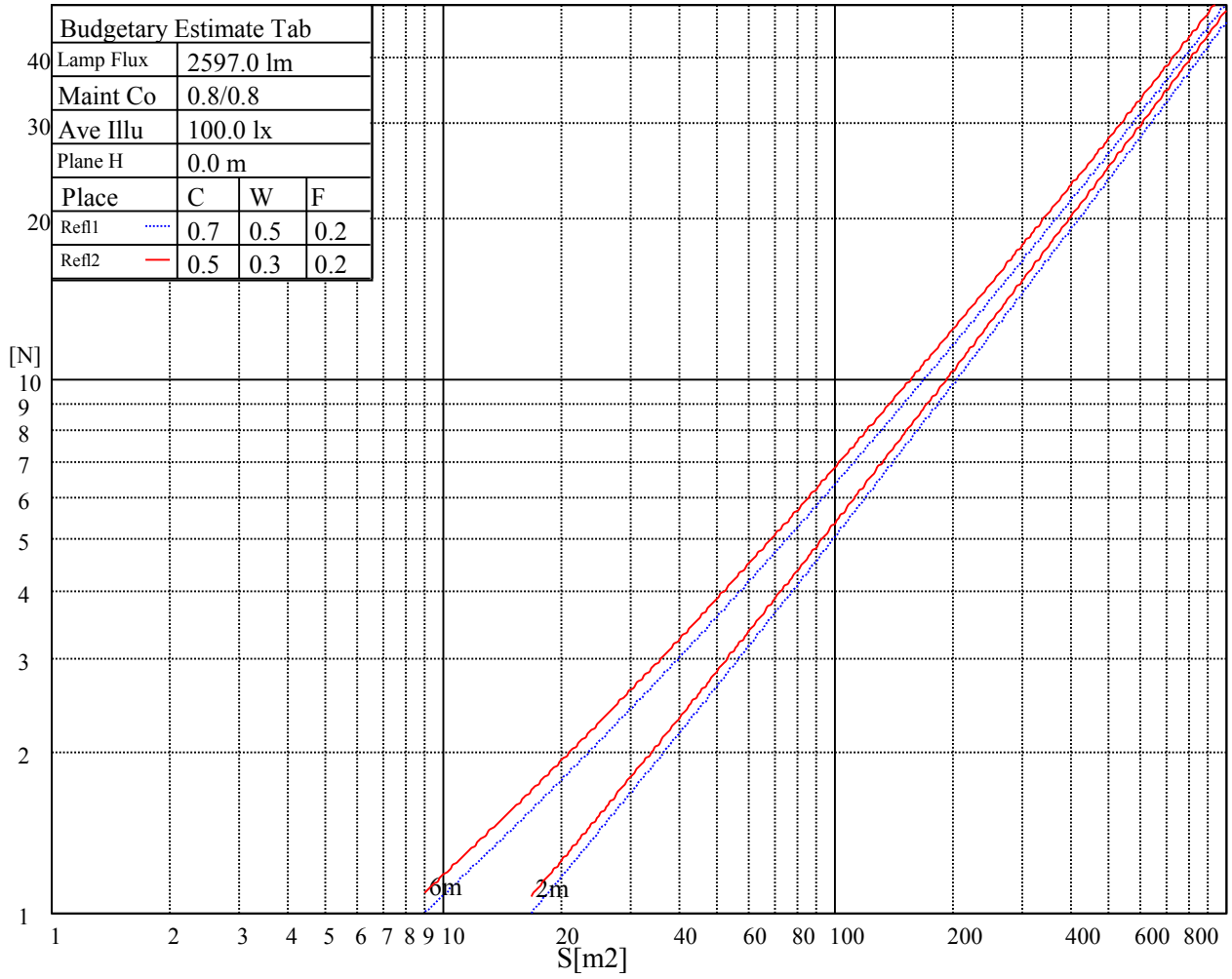
Luminance Limitting Curve



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

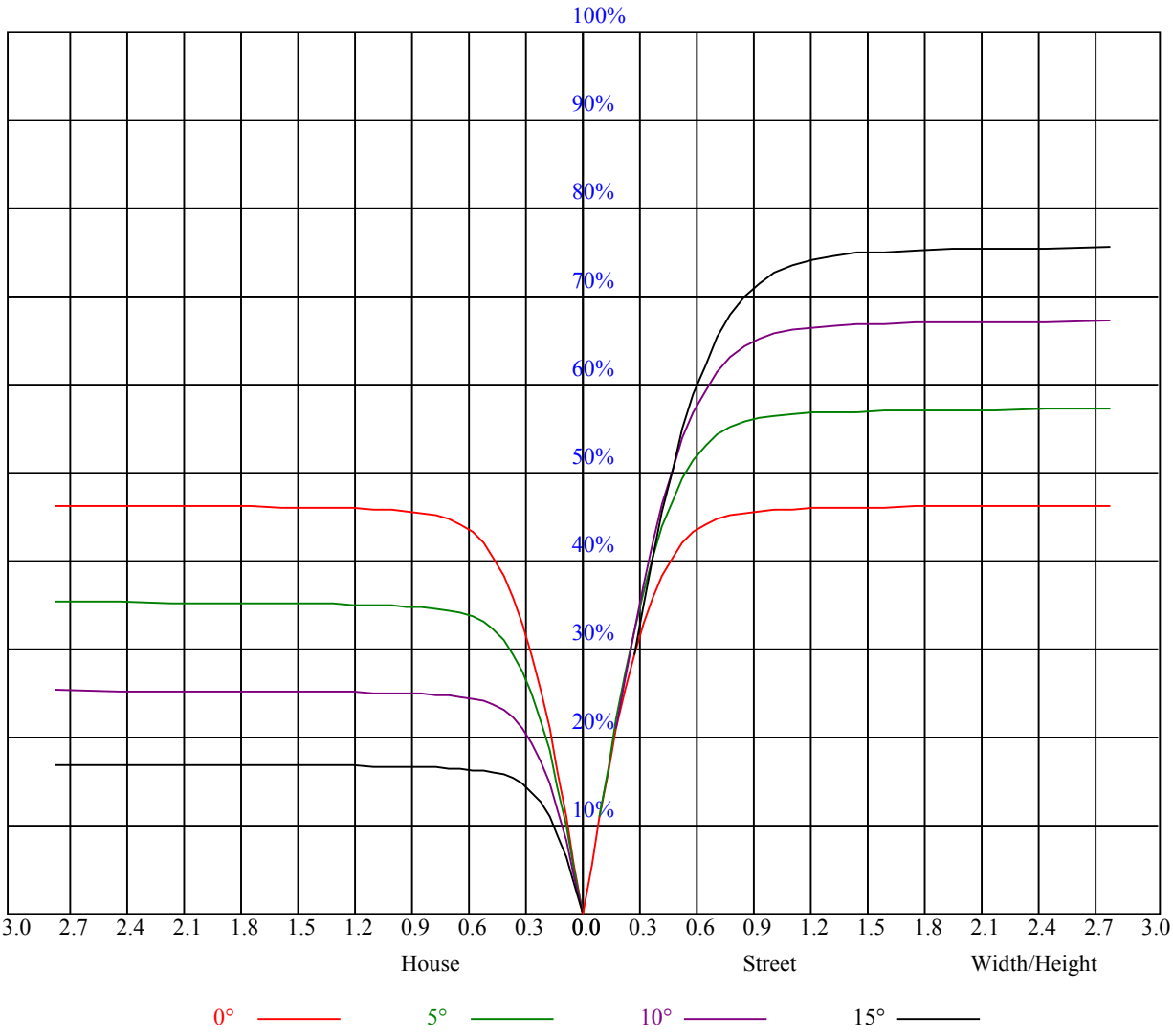
Date: 2024/9/10
Humidity(%): 60.0%

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	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.04	1.01	0.99	1.02	1.00	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	0.96	0.93	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	0.86	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.81	0.80	0.78
4	0.87	0.82	0.78	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.77	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	0.71	0.70
6	0.78	0.73	0.69	0.77	0.73	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.68	0.67
7	0.74	0.69	0.66	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.64	0.63
8	0.71	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.60
9	0.67	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.58
10	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.55

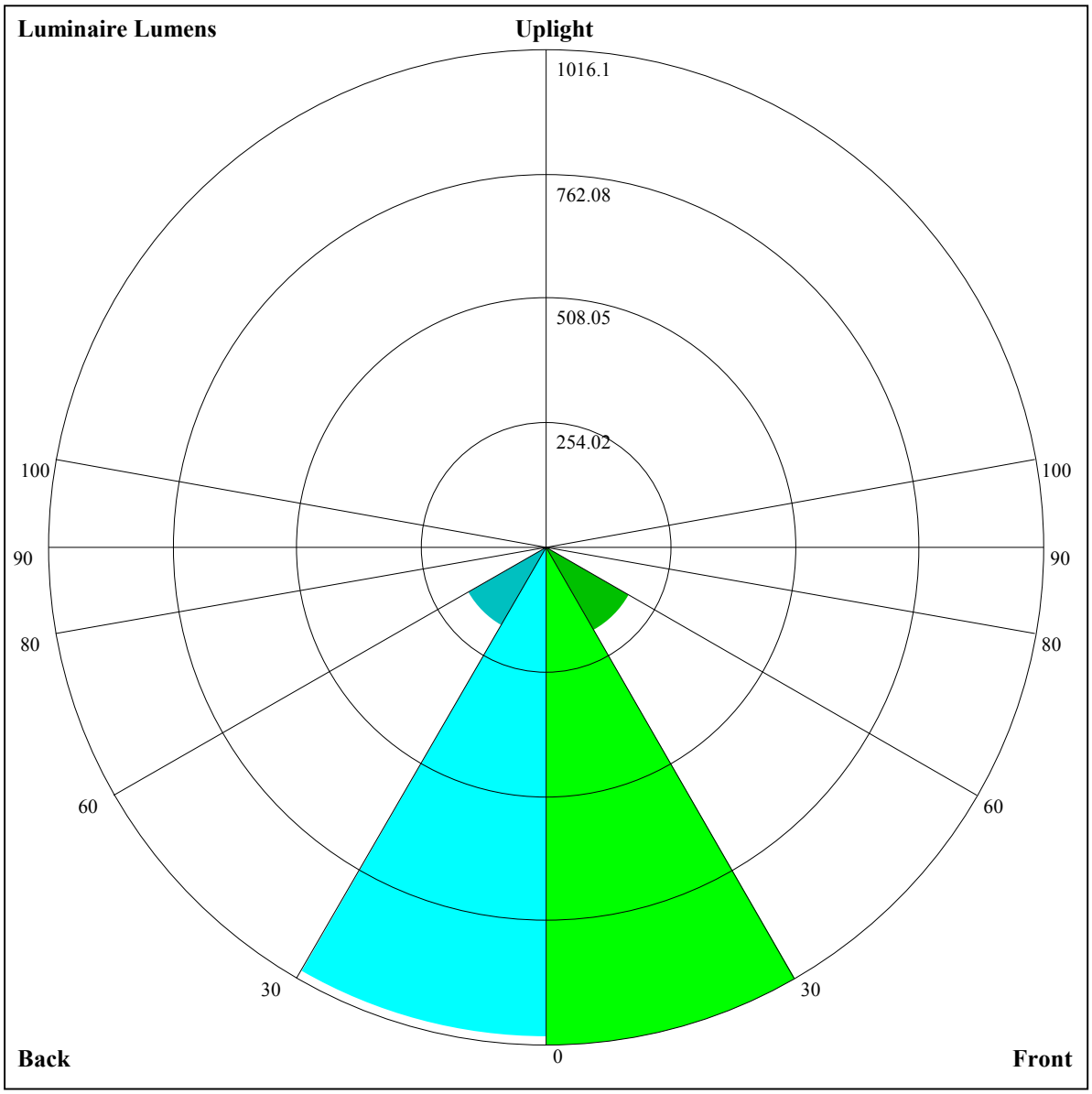
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/10
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=1016.1,FM=194.97,FH=10.21,FVH=1.45
BL=999.89,BM=184.89,BH=10.27,BVH=1.38
UL=0,UH=0

BUG Rating:B2-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	4928.42	4913.91	4866.55	4793.54	4707.76	4591.33	4468.18	4332.25	4185.71
45.0	4930.05	4915.01	4882.16	4810.26	4713.91	4609.68	4477.12	4338.93	4226.39
90.0	4896.62	4824.19	4740.09	4640.32	4517.75	4376.25	4214.09	4046.42	3883.74
135.0	4936.20	4913.91	4849.84	4771.83	4674.91	4554.54	4424.19	4281.53	4130.52
180.0	4928.42	4920.06	4907.24	4868.76	4790.76	4710.55	4609.68	4487.10	4356.75
225.0	4930.05	4935.09	4916.12	4868.76	4793.54	4704.97	4608.57	4482.11	4337.83
270.0	4896.62	4926.16	4955.70	4977.41	4951.23	4898.30	4847.63	4761.27	4700.51
315.0	4936.20	4964.63	4981.87	4956.80	4881.58	4813.62	4727.26	4637.54	4486.00
360.0	4928.42	4913.91	4866.55	4793.54	4707.76	4591.33	4468.18	4332.25	4185.71

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4034.70	3879.80	3747.76	3547.76	3386.71	3251.36	3090.31	2927.05	2756.59
45.0	4065.34	3866.44	3737.72	3571.73	3406.21	3240.74	3064.13	2883.63	2700.87
90.0	3724.37	3557.22	3450.78	3279.74	3100.35	2913.12	2730.94	2559.90	2396.11
135.0	3965.05	3807.36	3634.12	3451.94	3349.97	3093.67	2980.56	2795.59	2551.54
180.0	4260.93	4043.05	3942.24	3775.62	3539.40	3439.64	3264.13	3084.74	2891.99
225.0	4181.24	4014.67	3914.38	3681.48	3513.75	3411.78	3178.93	3074.70	2894.20
270.0	4538.40	4398.54	4304.40	4130.52	3968.42	3802.95	3626.87	3463.61	3305.92
315.0	4368.47	4217.46	4055.88	3887.63	3735.51	3576.72	3416.83	3246.31	3079.74
360.0	4034.70	3879.80	3747.76	3547.76	3386.71	3251.36	3090.31	2927.05	2756.59

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2592.22	2430.07	2277.43	2127.52	1984.34	1839.48	1693.51	1545.86	1409.94
45.0	2529.83	2361.00	2205.52	2053.46	1908.02	1759.27	1614.93	1480.69	1348.07
90.0	2238.43	2076.85	1920.27	1769.83	1629.44	1491.25	1357.53	1078.32	1078.32
135.0	2449.04	2275.75	2109.70	1949.23	1798.79	1656.72	1516.32	1381.50	1249.99
180.0	2710.91	2540.40	2374.93	2211.09	2043.95	1884.05	1738.08	1604.37	1473.43
225.0	2717.01	2540.40	2379.40	2221.13	2064.02	1915.27	1769.31	1626.65	1492.93
270.0	3144.92	2977.19	2809.52	2650.73	2497.51	2354.33	2206.10	2058.45	1917.48
315.0	2908.70	2739.29	2584.39	2432.33	2282.42	2139.82	1998.85	1860.08	1718.01
360.0	2592.22	2430.07	2277.43	2127.52	1984.34	1839.48	1693.51	1545.86	1409.94

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1106.70	1080.74	1029.70	899.45	819.61	690.36	570.78	468.49	385.49
45.0	1271.75	1097.93	973.09	896.77	767.52	595.90	530.15	435.43	358.53
90.0	944.86	808.46	728.52	556.11	493.14	406.26	337.08	281.05	234.64
135.0	1120.21	986.49	849.99	717.37	592.54	487.25	401.47	359.69	299.50
180.0	1347.49	1221.03	1093.46	1012.67	823.23	744.65	620.40	474.43	422.60
225.0	1362.00	1073.59	1073.59	996.64	891.09	758.16	634.48	522.79	431.54
270.0	1773.72	1635.01	1499.08	1374.25	1247.20	1140.24	1002.63	861.66	723.47
315.0	1582.66	1448.36	1368.15	1104.92	1104.92	965.94	825.39	687.62	562.84
360.0	1106.70	1080.74	1029.70	899.45	819.61	690.36	570.78	468.49	385.49

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	317.21	261.71	216.24	178.61	147.91	122.68	101.81	84.73	70.91
45.0	297.24	275.53	232.48	167.83	139.13	115.11	95.24	79.05	66.02
90.0	196.11	163.73	136.50	113.32	94.24	78.84	66.33	56.77	49.36
135.0	299.50	201.00	166.73	137.77	113.96	94.14	78.21	65.44	55.66
180.0	352.96	295.03	295.03	198.21	164.99	137.08	113.64	94.72	79.00
225.0	358.27	299.61	250.04	208.94	174.56	145.34	120.68	100.60	83.84
270.0	599.27	494.51	408.67	337.92	278.90	278.90	188.59	155.16	127.46
315.0	458.82	375.77	308.33	254.67	209.57	172.88	142.23	121.95	96.66
360.0	317.21	261.71	216.24	178.61	147.91	122.68	101.81	84.73	70.91

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	60.08	51.93	45.41	40.32	36.32	33.48	29.86	27.81	25.60
45.0	57.77	48.36	43.31	38.27	33.48	30.85	28.07	25.65	23.60
90.0	43.52	39.00	35.22	32.06	29.59	28.17	25.39	23.71	22.81
135.0	48.41	42.79	38.42	34.85	31.91	29.44	28.07	26.18	24.49
180.0	66.28	56.56	51.98	45.73	39.37	37.16	33.75	31.01	28.70
225.0	70.43	59.97	52.14	45.99	41.00	38.53	33.64	30.75	29.22
270.0	104.55	86.10	76.79	60.24	54.82	47.36	41.52	37.06	33.38
315.0	79.90	68.86	55.87	49.57	43.36	38.53	34.69	31.43	28.75
360.0	60.08	51.93	45.41	40.32	36.32	33.48	29.86	27.81	25.60

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	23.81	22.18	20.71	19.45	18.13	16.98	15.98	15.24	14.56
45.0	21.81	20.39	19.13	18.08	17.19	16.24	15.51	14.82	14.19
90.0	21.50	20.29	19.13	18.13	17.29	16.61	15.72	14.77	13.93
135.0	23.07	21.66	20.45	19.34	18.13	17.14	16.24	15.45	14.56
180.0	26.75	24.97	23.44	22.02	20.71	19.45	18.13	17.14	16.29
225.0	26.07	24.97	23.23	21.66	20.29	19.08	17.87	16.87	16.03
270.0	30.28	27.70	25.70	24.02	22.44	21.03	19.76	18.61	17.61
315.0	26.49	24.60	23.07	21.71	20.45	19.13	17.92	16.87	16.03
360.0	23.81	22.18	20.71	19.45	18.13	16.98	15.98	15.24	14.56

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.98	13.35	12.83	12.09	11.30	10.51	9.83	9.30	8.67
45.0	13.51	12.88	12.30	11.93	10.62	10.20	9.67	8.88	8.62
90.0	13.04	12.14	11.20	10.30	9.57	8.99	8.46	7.83	7.46
135.0	13.82	12.98	12.19	11.35	10.57	9.83	9.25	8.67	8.09
180.0	15.51	14.72	13.88	13.09	12.19	11.62	10.51	9.83	9.41
225.0	15.19	14.30	13.51	12.72	12.09	11.30	10.57	9.93	9.57
270.0	16.77	16.03	15.35	14.56	13.88	13.25	12.30	11.62	10.78
315.0	15.30	14.61	13.98	13.25	12.67	11.98	11.25	10.46	9.83
360.0	13.98	13.35	12.83	12.09	11.30	10.51	9.83	9.30	8.67

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.09	7.83	7.36	6.68	6.41	5.89	5.41	4.99	4.52
45.0	8.04	7.52	6.99	6.52	5.99	5.52	5.05	4.57	3.99
90.0	6.83	6.36	5.89	5.47	4.89	4.36	3.94	3.42	3.00
135.0	7.88	7.36	6.62	6.25	5.78	5.31	4.78	4.31	3.78
180.0	8.83	8.04	7.73	7.25	6.73	6.15	5.68	5.20	4.73
225.0	8.73	8.20	7.83	7.31	6.83	6.25	5.78	5.20	4.84
270.0	10.04	9.57	8.99	8.46	7.99	7.52	6.99	6.47	5.99
315.0	9.30	8.73	8.25	7.73	7.31	6.83	6.25	5.83	5.41
360.0	8.09	7.83	7.36	6.68	6.41	5.89	5.41	4.99	4.52

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.05	3.47	3.15	2.79	2.31	2.10	1.84	1.58	1.37
45.0	3.63	3.15	2.68	2.26	2.00	1.68	1.37	1.16	1.00
90.0	2.63	2.26	2.00	1.68	1.47	1.26	0.95	0.95	0.95
135.0	3.31	2.94	2.47	2.16	1.89	1.73	1.47	1.16	1.10
180.0	4.15	3.63	3.15	2.73	2.37	2.00	1.79	1.52	1.37
225.0	4.31	3.78	3.36	2.89	2.52	2.21	1.89	1.52	1.37
270.0	5.52	5.05	4.63	4.05	3.57	3.05	2.68	2.26	2.05
315.0	4.99	4.57	3.99	3.63	3.15	2.84	2.37	2.10	1.84
360.0	4.05	3.47	3.15	2.79	2.31	2.10	1.84	1.58	1.37

Intensity data(cd)

C/γ(°)	90.0
0.0	1.26
45.0	1.00
90.0	0.95
135.0	1.10
180.0	1.05
225.0	1.21
270.0	1.73
315.0	1.68
360.0	1.26