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Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

Client:
LumCAT: 2-2755-L
Luminaire: 92.70.411.00
Report No: 2024910-B013
Ballast type: AC

Test No: 2024910-C013	Voltage(V): 33.870
LampCAT: NICHIA NFCWJ120B-V3	Current(A): 0.580
Lamp flux(lm): 2597.0	Power (W): 19.630
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2421.26, Efficiency(%): 93.23% , Luminous Efficacy(lm/W): 123.34
Central intensity(cd): 8691.341, Maximum intensity(cd): 8691.341
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.0
[C90/270]Total=25.0
Field angle(10%Imax): [C0/180]Total=56.0
[C90/270]Total=56.0
Maximum s/h(1/2): C0_180=0.42 C90_270=0.42
Maximum s/h(1/4): C0_180=0.44 C90_270=0.44
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.23%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.930%

Equipment: GMS 1800	Date: 2024/9/10	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8691.341	0.000	0	0.00%	0.00%
1.0	8642.523	8.294	8.294	0.32%	0.34%
2.0	8509.139	24.618	32.912	0.95%	1.36%
3.0	8291.071	40.181	73.092	1.55%	3.02%
4.0	8020.098	54.599	127.691	2.10%	5.27%
5.0	7681.057	67.546	195.236	2.60%	8.06%
6.0	7308.875	78.776	274.013	3.03%	11.32%
7.0	6882.928	88.088	362.101	3.39%	14.96%
8.0	6432.251	95.294	457.395	3.67%	18.89%
9.0	5942.079	100.287	557.682	3.86%	23.03%
10.0	5463.419	103.216	660.898	3.97%	27.30%
11.0	5000.343	104.554	765.452	4.03%	31.61%
12.0	4580.736	104.735	870.187	4.03%	35.94%
13.0	4083.949	102.828	973.015	3.96%	40.19%
14.0	3650.820	99.004	1072.02	3.81%	44.28%
15.0	3250.353	94.742	1166.762	3.65%	48.19%
16.0	2879.571	89.821	1256.582	3.46%	51.90%
17.0	2558.913	84.692	1341.274	3.26%	55.40%
18.0	2281.528	79.808	1421.083	3.07%	58.69%
19.0	2022.520	74.882	1495.964	2.88%	61.78%
20.0	1816.862	70.271	1566.236	2.71%	64.69%
21.0	1646.849	66.510	1632.746	2.56%	67.43%
22.0	1482.197	62.880	1695.625	2.42%	70.03%
23.0	1368.333	59.812	1755.437	2.30%	72.50%
24.0	1247.275	57.187	1812.624	2.20%	74.86%
25.0	1131.703	54.093	1866.717	2.08%	77.10%
26.0	1045.435	51.392	1918.108	1.98%	79.22%
27.0	963.648	49.153	1967.261	1.89%	81.25%
28.0	867.176	46.353	2013.613	1.78%	83.16%
29.0	790.323	43.365	2056.978	1.67%	84.95%
30.0	687.123	39.891	2096.869	1.54%	86.60%
31.0	606.453	35.998	2132.867	1.39%	88.09%
32.0	523.739	32.379	2165.246	1.25%	89.43%
33.0	445.802	28.563	2193.809	1.10%	90.61%
34.0	378.930	24.959	2218.768	0.96%	91.64%
35.0	326.400	21.905	2240.673	0.84%	92.54%
36.0	286.880	19.527	2260.2	0.75%	93.35%
37.0	233.305	16.966	2277.165	0.65%	94.05%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	196.919	14.360	2291.526	0.55%	94.64%
39.0	168.049	12.457	2303.983	0.48%	95.16%
40.0	142.517	10.831	2314.814	0.42%	95.60%
41.0	116.702	9.231	2324.045	0.36%	95.99%
42.0	99.422	7.852	2331.897	0.30%	96.31%
43.0	84.369	6.808	2338.705	0.26%	96.59%
44.0	72.687	5.928	2344.633	0.23%	96.84%
45.0	62.858	5.209	2349.842	0.20%	97.05%
46.0	55.795	4.640	2354.483	0.18%	97.24%
47.0	49.632	4.193	2358.676	0.16%	97.42%
48.0	45.204	3.834	2362.509	0.15%	97.57%
49.0	41.354	3.555	2366.064	0.14%	97.72%
50.0	38.522	3.330	2369.394	0.13%	97.86%
51.0	36.032	3.154	2372.548	0.12%	97.99%
52.0	33.870	3.000	2375.548	0.12%	98.11%
53.0	32.030	2.867	2378.415	0.11%	98.23%
54.0	30.177	2.742	2381.157	0.11%	98.34%
55.0	28.509	2.620	2383.776	0.10%	98.45%
56.0	27.096	2.513	2386.289	0.10%	98.56%
57.0	25.788	2.418	2388.707	0.09%	98.66%
58.0	24.350	2.319	2391.025	0.09%	98.75%
59.0	23.036	2.215	2393.241	0.09%	98.84%
60.0	21.682	2.113	2395.353	0.08%	98.93%
61.0	20.348	2.006	2397.359	0.08%	99.01%
62.0	19.172	1.904	2399.263	0.07%	99.09%
63.0	17.871	1.802	2401.065	0.07%	99.17%
64.0	16.761	1.699	2402.764	0.07%	99.24%
65.0	15.690	1.606	2404.37	0.06%	99.30%
66.0	14.586	1.511	2405.881	0.06%	99.36%
67.0	13.607	1.418	2407.298	0.05%	99.42%
68.0	12.549	1.325	2408.623	0.05%	99.48%
69.0	11.570	1.230	2409.854	0.05%	99.53%
70.0	10.729	1.145	2410.999	0.04%	99.58%
71.0	9.941	1.068	2412.068	0.04%	99.62%
72.0	9.074	0.989	2413.056	0.04%	99.66%
73.0	8.305	0.909	2413.965	0.03%	99.70%
74.0	7.687	0.841	2414.806	0.03%	99.73%
75.0	7.043	0.778	2415.584	0.03%	99.77%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.439	0.716	2416.3	0.03%	99.80%
77.0	5.867	0.656	2416.956	0.03%	99.82%
78.0	5.361	0.601	2417.557	0.02%	99.85%
79.0	4.829	0.548	2418.105	0.02%	99.87%
80.0	4.363	0.496	2418.6	0.02%	99.89%
81.0	3.890	0.446	2419.046	0.02%	99.91%
82.0	3.463	0.399	2419.445	0.02%	99.93%
83.0	3.016	0.352	2419.797	0.01%	99.94%
84.0	2.661	0.309	2420.106	0.01%	99.95%
85.0	2.280	0.270	2420.376	0.01%	99.96%
86.0	1.971	0.232	2420.608	0.01%	99.97%
87.0	1.689	0.200	2420.809	0.01%	99.98%
88.0	1.426	0.171	2420.979	0.01%	99.99%
89.0	1.255	0.147	2421.126	0.01%	99.99%
90.0	1.143	0.131	2421.258	0.01%	100.00%

Zonal flux distribution table

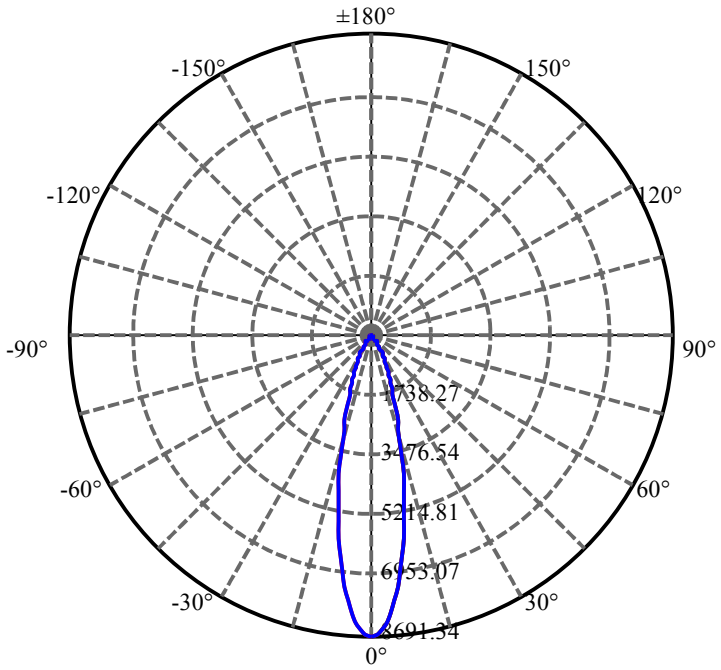
ZONAL LUMEN SUMMARY

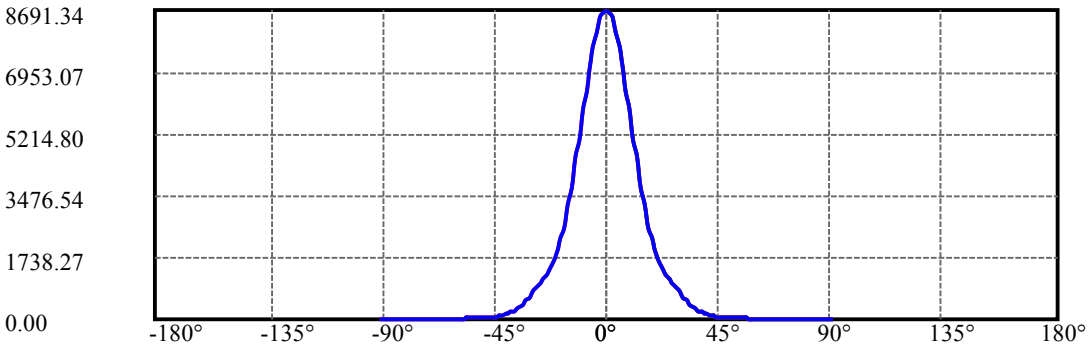
Zone	Lumens	%Lamp	%Fixt
0-30	2096.87	80.74%	86.60%
0-40	2314.81	89.13%	95.60%
0-60	2395.35	92.24%	98.93%
0-90	2421.13	93.23%	99.99%
0-120	2421.13	93.23%	99.99%
0-180	2421.26	93.23%	100.00%
60-90	25.77	0.99%	1.06%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.38	1937.01	74.59%	80.00%

ZONAL LUMEN SUMMARY

0-10	660.90
10-20	905.34
20-30	530.63
30-40	217.95
40-50	54.58
50-60	25.96
60-70	15.65
70-80	7.60
80-90	2.53
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):

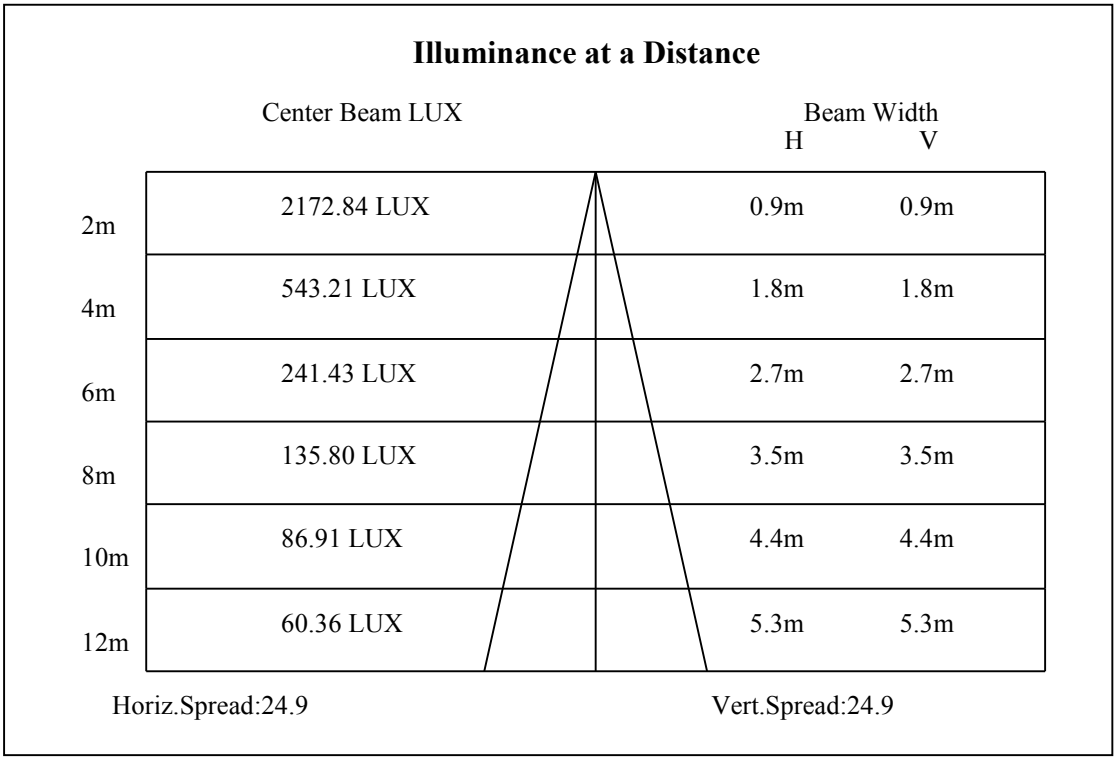
C0/C180:

C90/C270:

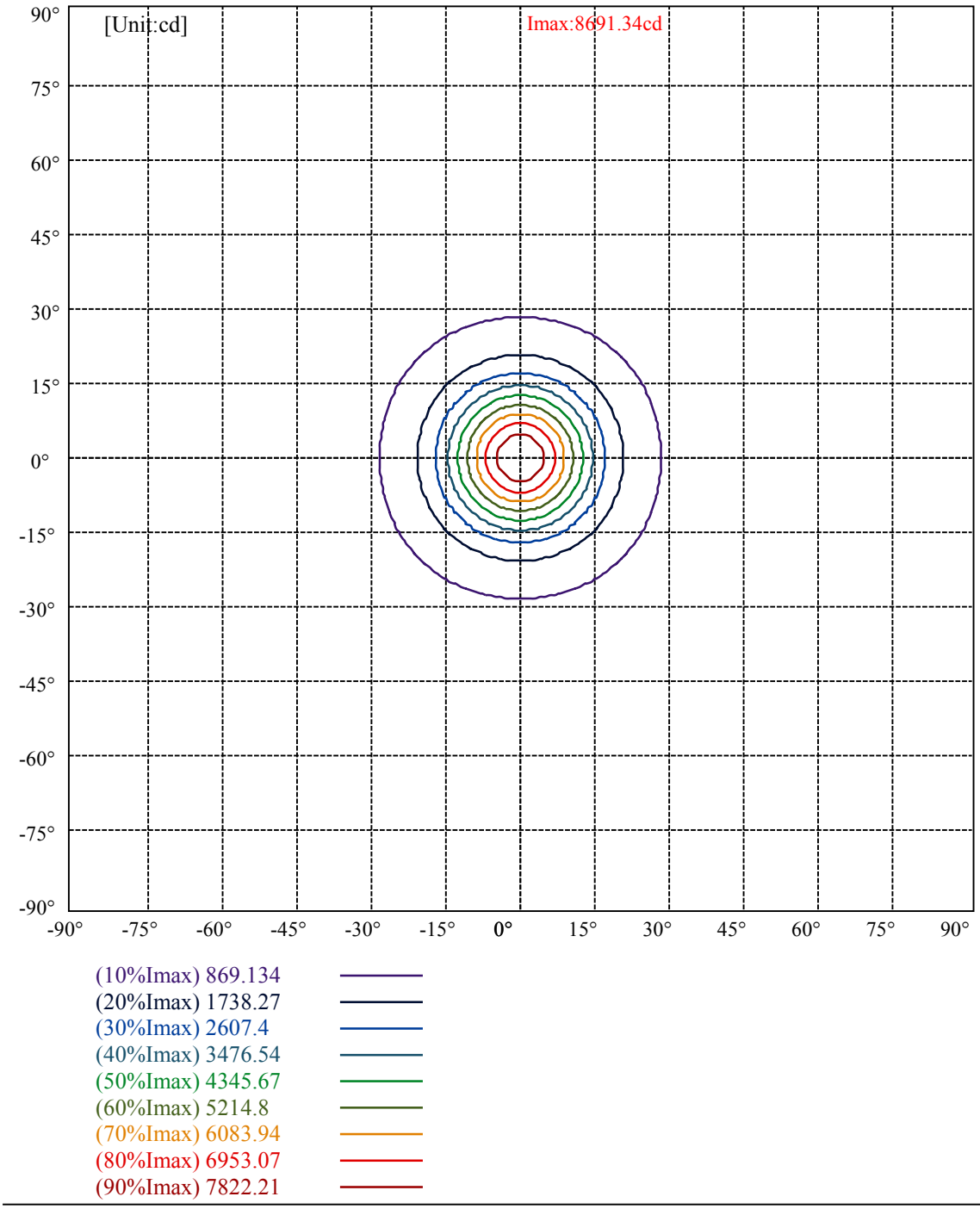
Field angle(10%Imax):C0/180Left:28.0 Right:28.0
:C90/270Left:28.0 Right:28.0

Beam Angle(50%Imax):C0/180Left:12.5 Right:12.5
:C90/270Left:12.5 Right:12.5

Lux distance Curve



ISO-Intensity(V-H)



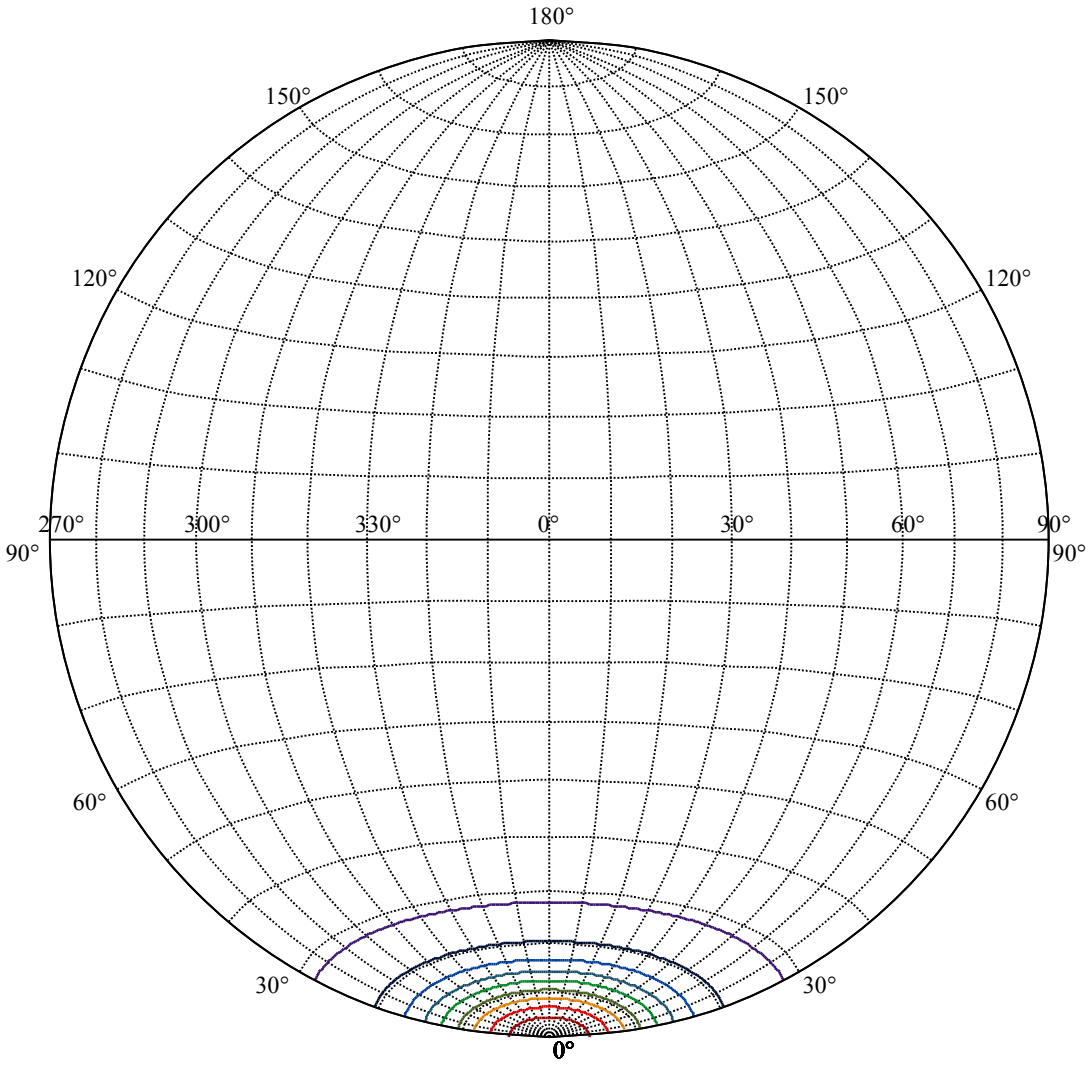
(10%Imax) 869.134
(20%Imax) 1738.27
(30%Imax) 2607.4
(40%Imax) 3476.54
(50%Imax) 4345.67
(60%Imax) 5214.8
(70%Imax) 6083.94
(80%Imax) 6953.07
(90%Imax) 7822.21

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:8691.34

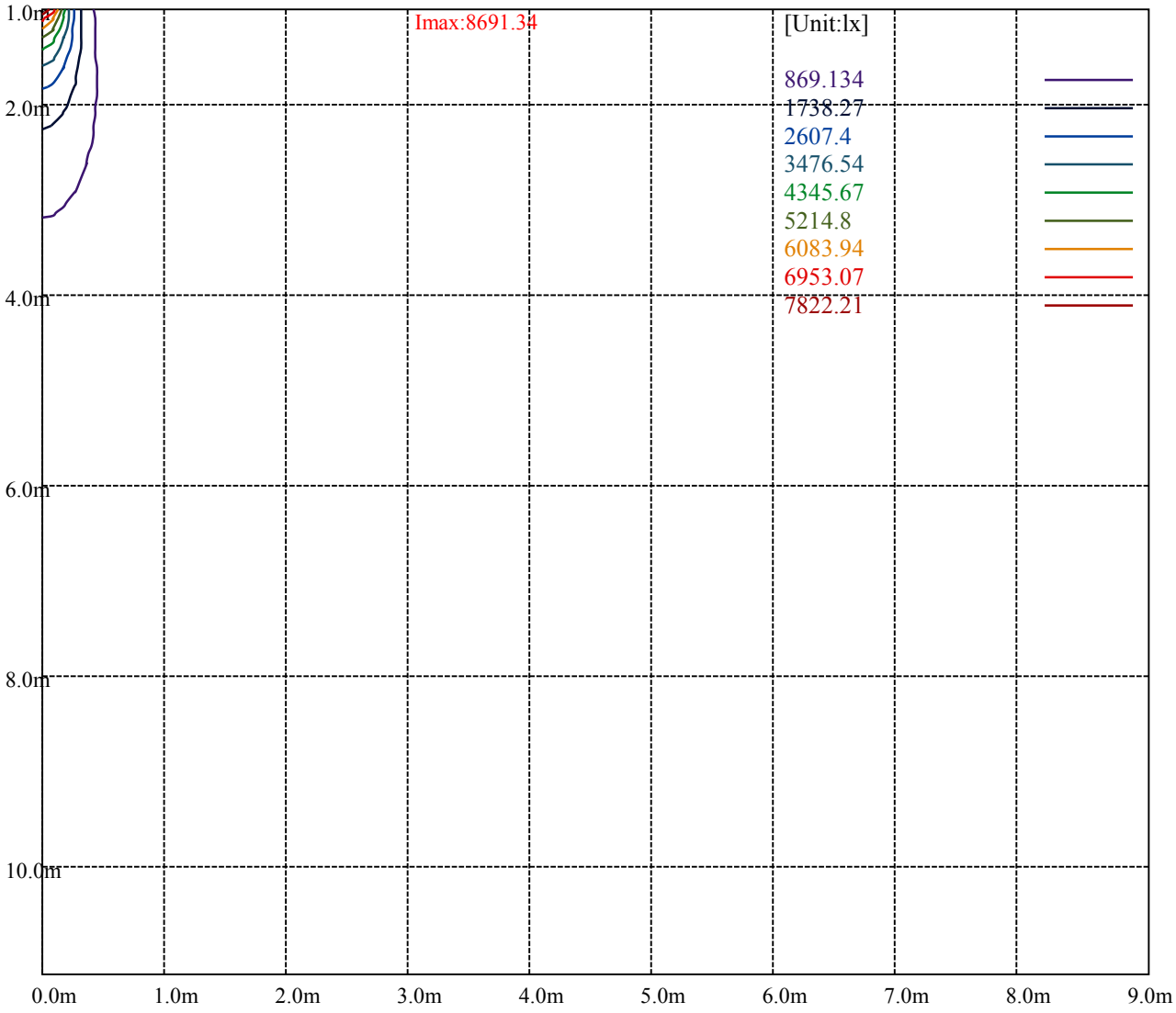
(10%Imax) 869.134
(20%Imax) 1738.27
(30%Imax) 2607.4
(40%Imax) 3476.54
(50%Imax) 4345.67
(60%Imax) 5214.8
(70%Imax) 6083.94
(80%Imax) 6953.07
(90%Imax) 7822.21

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

Nata 2-2755-L

Luminance Limitting Curve(no luminous side)

Luminance Table

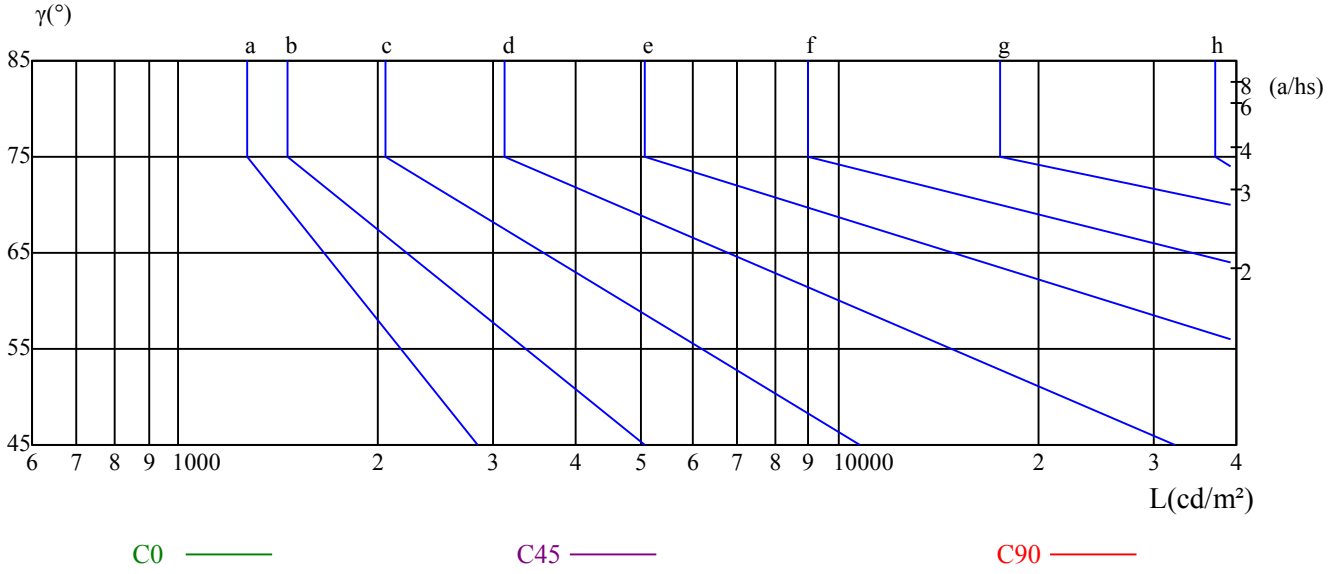
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

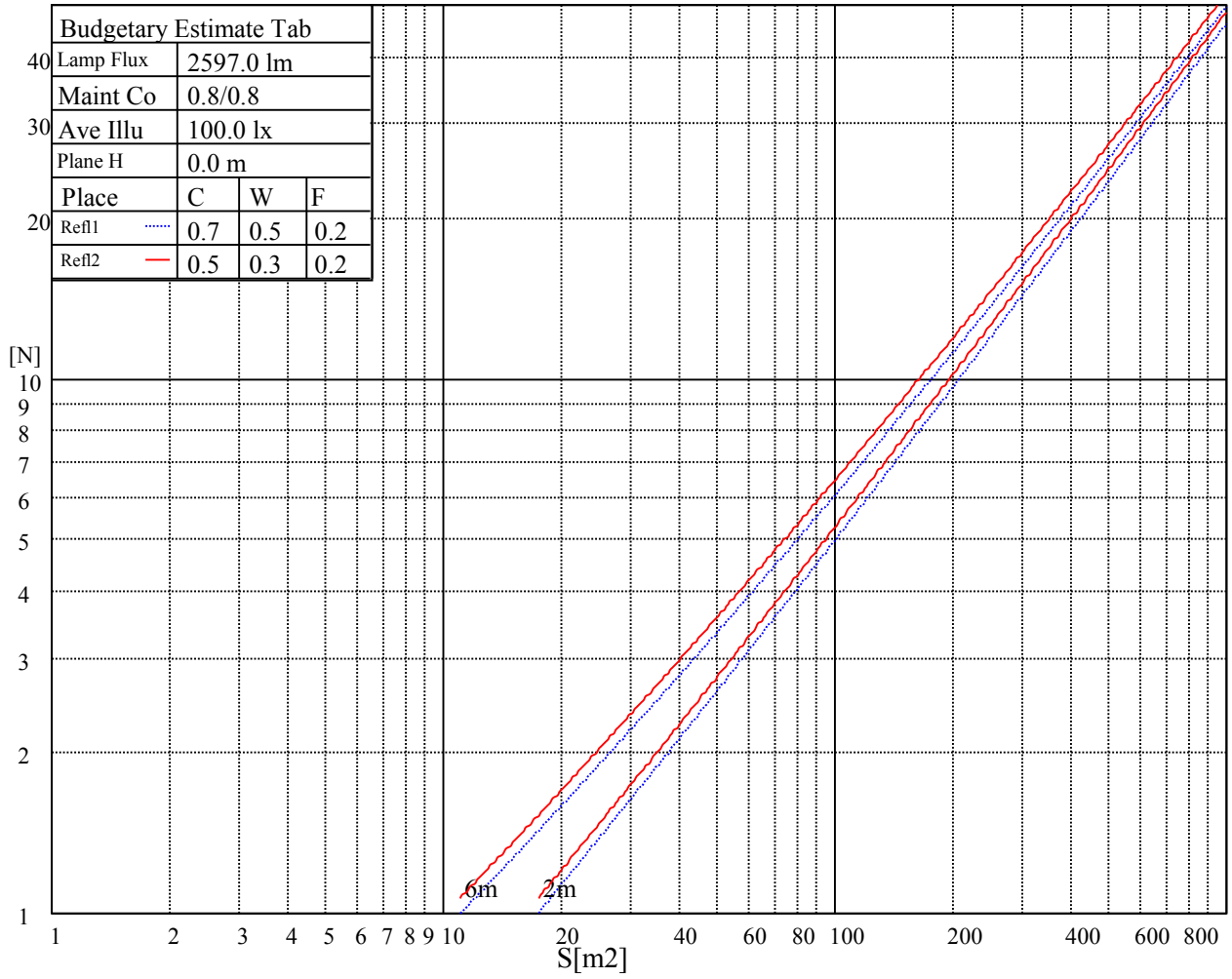
Operator: NT
Distance(m): 7.25

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

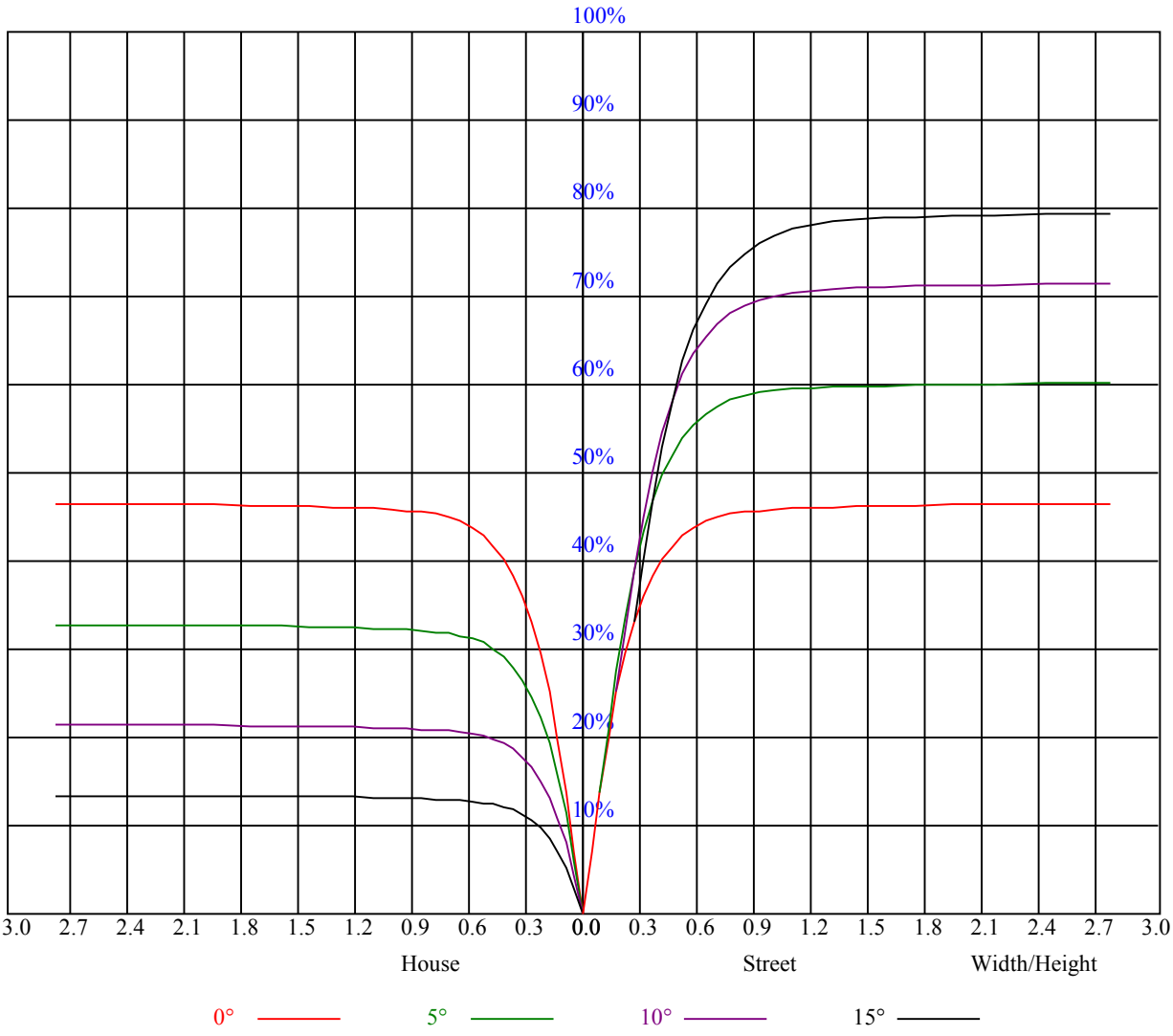
Date: 2024/9/10
Humidity(%): 60.0%

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	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.04	1.02	1.01	1.02	1.01	0.99	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89
2	0.99	0.95	0.93	0.97	0.94	0.92	0.94	0.92	0.90	0.91	0.89	0.88	0.89	0.87	0.86	0.85
3	0.93	0.90	0.87	0.92	0.89	0.86	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.81
4	0.89	0.85	0.81	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.83	0.80	0.78	0.77
5	0.85	0.80	0.77	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.74
6	0.81	0.77	0.74	0.81	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
7	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
8	0.75	0.70	0.67	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.65
9	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.63
10	0.70	0.65	0.62	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61

Coefficient Utilization Curve

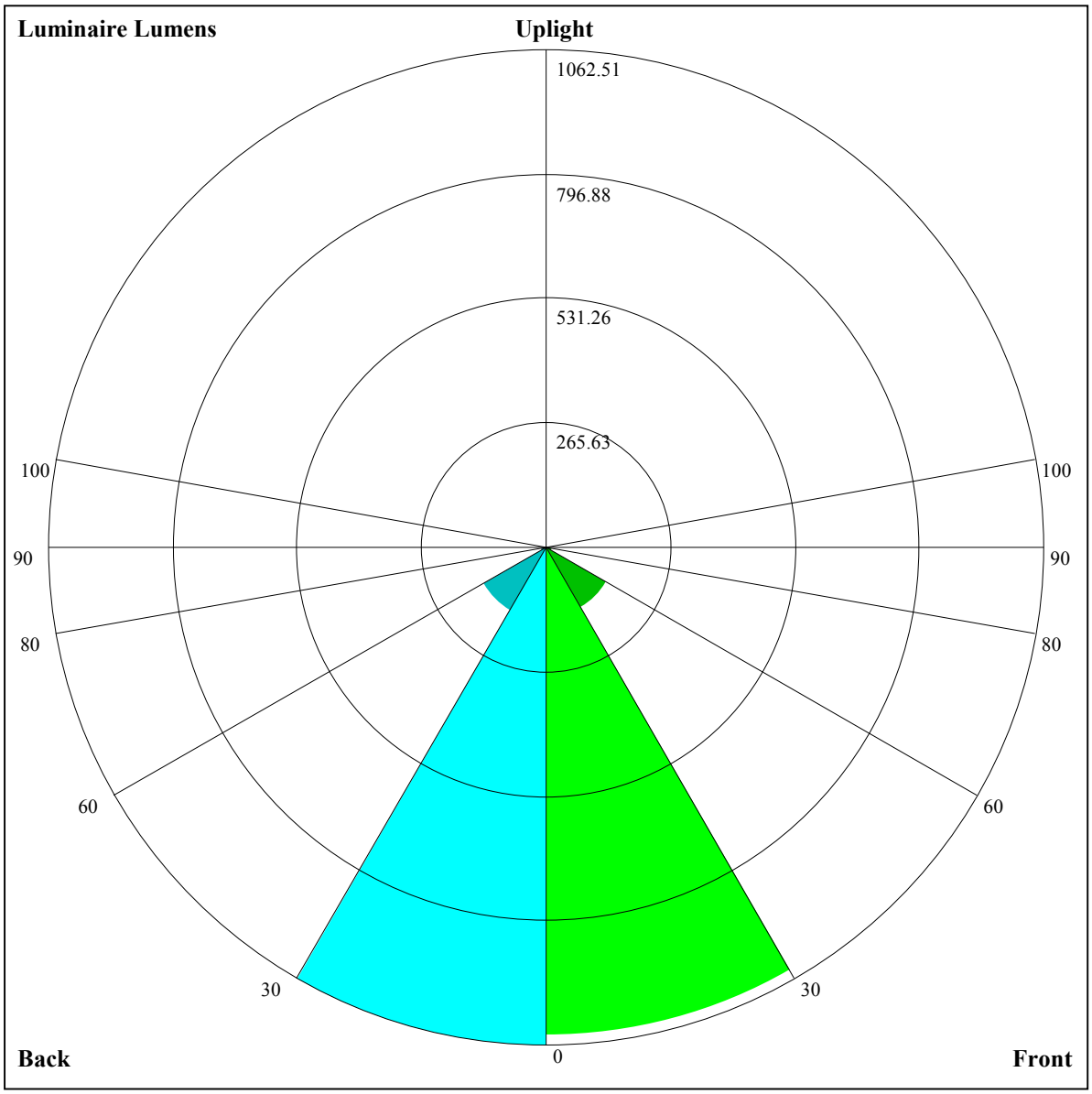


Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25

LCS Graph



Luminaire Lumens:

FL=1042.19,FM=148.2,FH=11.44,FVH=1.34

BL=1062.51,BM=155.39,BH=11.69,BVH=1.35

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	8722.69	8617.94	8419.04	8128.16	7782.19	7374.89	6925.85	6465.03	5994.23
45.0	8761.12	8608.48	8372.21	8067.45	7698.62	7293.57	7035.02	6425.50	6131.89
90.0	8500.93	8167.16	7796.12	7417.78	6997.12	6550.29	6064.45	5559.12	5060.45
135.0	8780.62	8614.05	8344.93	8010.05	7641.22	7243.95	6824.98	6386.50	5900.67
180.0	8722.69	8748.87	8699.25	8476.39	8313.18	8015.62	7652.94	7269.03	6858.41
225.0	8761.12	8795.13	8746.61	8600.12	8360.54	8030.13	7655.15	7233.97	6771.47
270.0	8500.93	8742.20	8859.20	8894.26	8853.05	8718.23	8469.71	8131.52	7816.20
315.0	8780.62	8846.37	8835.76	8734.36	8514.86	8221.77	7842.90	7592.76	6924.69
360.0	8722.69	8617.94	8419.04	8128.16	7782.19	7374.89	6925.85	6465.03	5994.23

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5494.46	4985.24	4501.03	4034.17	3588.97	3173.36	2787.76	2458.51	2173.77
45.0	5615.36	4905.55	4599.69	4123.84	3660.87	3229.07	2843.47	2508.65	2216.67
90.0	4562.32	4076.48	3614.62	3353.28	2815.09	2612.83	2314.75	1969.88	1850.62
135.0	5398.64	4912.23	4412.46	4128.89	3665.87	3080.27	2860.19	2534.25	2244.52
180.0	6408.21	5911.81	5424.29	4936.78	4439.74	3959.48	3510.96	3108.70	2746.55
225.0	6310.18	5830.44	5330.10	4927.84	4355.64	3980.09	3448.57	3111.49	2736.51
270.0	7299.67	6923.06	6453.36	5978.67	5468.87	4969.05	4482.69	4016.88	3569.47
315.0	6447.79	6162.53	5667.18	5162.43	4676.54	4202.42	3754.43	3328.20	2933.20
360.0	5494.46	4985.24	4501.03	4034.17	3588.97	3173.36	2787.76	2458.51	2173.77

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2030.59	1750.91	1591.01	1504.65	1383.71	1271.75	1062.50	1062.50	968.73
45.0	1965.94	1757.01	1593.80	1452.83	1335.25	1228.86	1167.57	1036.06	945.81
90.0	1680.69	1535.30	1412.72	1306.28	1076.16	1076.16	1018.92	925.73	831.28
135.0	2006.63	1802.74	1639.48	1496.82	1378.14	1266.70	1163.10	1066.70	971.99
180.0	2426.76	2149.81	1919.74	1727.52	1572.04	1461.71	1319.63	1235.53	1133.56
225.0	2407.26	2124.21	1895.19	1701.29	1537.51	1406.57	1295.14	1055.46	1055.46
270.0	3149.39	2773.30	2450.15	2166.52	1933.09	1739.77	1582.08	1442.79	1370.36
315.0	2584.97	2286.89	2032.80	1818.87	1641.68	1495.14	1369.25	1228.86	1086.31
360.0	2030.59	1750.91	1591.01	1504.65	1383.71	1271.75	1062.50	1062.50	968.73

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	875.22	782.50	687.20	593.69	502.76	420.92	354.48	300.45	256.45
45.0	892.30	770.30	716.79	629.91	542.97	459.40	385.28	325.10	286.10
90.0	738.24	642.05	567.10	459.13	398.11	335.19	284.05	240.89	204.15
135.0	880.63	787.02	693.40	598.69	525.68	424.86	355.74	310.64	300.60
180.0	1022.13	947.49	857.19	765.26	675.01	583.08	495.61	417.03	351.33
225.0	1000.00	906.02	851.41	726.99	672.69	582.66	494.51	417.61	351.91
270.0	1214.35	1111.85	1053.35	921.26	829.91	774.77	681.16	589.23	500.08
315.0	1086.31	990.17	896.14	802.05	704.50	609.04	515.59	430.49	360.58
360.0	875.22	782.50	687.20	593.69	502.76	420.92	354.48	300.45	256.45

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	233.11	186.23	157.00	141.71	111.17	100.60	85.26	72.75	63.02
45.0	286.10	192.43	162.42	136.40	114.90	97.50	82.84	70.75	64.91
90.0	172.09	144.86	121.95	102.97	86.83	73.64	63.23	55.35	49.51
135.0	281.68	187.75	157.90	132.14	111.17	93.67	79.05	67.23	58.13
180.0	298.92	289.46	242.63	183.44	165.83	130.78	118.27	100.50	85.89
225.0	299.34	254.56	216.93	183.97	155.59	130.83	110.70	94.19	80.32
270.0	419.29	353.54	298.92	280.00	240.26	177.50	147.65	122.63	102.13
315.0	304.49	257.61	217.61	183.76	154.38	129.09	108.38	91.56	77.58
360.0	233.11	186.23	157.00	141.71	111.17	100.60	85.26	72.75	63.02

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	55.45	50.14	45.83	42.68	40.37	38.21	36.06	34.01	32.33
45.0	57.03	49.41	46.78	43.21	39.21	37.74	35.32	32.96	31.12
90.0	44.84	41.16	38.27	35.64	33.17	31.17	29.54	27.96	27.07
135.0	51.62	46.62	42.63	40.47	36.69	34.32	32.90	31.06	29.59
180.0	73.75	64.23	56.82	51.25	46.78	43.36	40.58	38.11	35.69
225.0	68.96	60.39	53.77	48.57	44.21	41.31	38.16	36.22	33.85
270.0	85.15	74.11	62.65	52.62	47.78	42.94	39.21	36.37	34.27
315.0	66.07	60.29	50.30	47.20	42.63	39.11	36.48	34.27	32.33
360.0	55.45	50.14	45.83	42.68	40.37	38.21	36.06	34.01	32.33

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	30.75	29.17	27.44	26.44	24.55	23.81	22.34	20.03	19.34
45.0	29.59	27.96	26.07	24.55	23.29	21.97	20.39	18.87	17.77
90.0	25.39	23.50	22.86	21.60	20.08	18.61	17.35	16.40	15.30
135.0	28.07	26.49	25.07	23.71	22.65	21.39	19.76	18.45	17.56
180.0	33.64	31.96	30.59	29.07	27.33	25.76	24.49	23.44	21.60
225.0	31.54	30.01	28.80	27.44	26.07	24.76	23.50	21.97	20.45
270.0	32.06	30.22	28.49	27.23	26.07	24.70	23.29	22.23	21.29
315.0	30.38	28.75	27.44	26.28	24.76	23.29	22.34	21.39	20.08
360.0	30.75	29.17	27.44	26.44	24.55	23.81	22.34	20.03	19.34

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.13	17.03	15.72	14.35	13.40	12.46	11.41	10.25	9.41
45.0	16.71	15.51	14.82	13.51	12.62	11.77	10.83	9.83	8.99
90.0	14.19	13.04	12.19	11.35	10.51	9.51	8.67	7.99	7.36
135.0	16.45	15.45	14.19	13.14	12.25	11.46	10.46	9.67	8.73
180.0	19.87	18.98	17.82	16.56	15.09	13.98	13.09	12.19	11.20
225.0	18.87	17.71	16.61	15.45	14.24	13.19	12.30	11.35	10.83
270.0	20.13	18.82	17.56	16.61	15.98	14.56	13.35	12.72	11.98
315.0	18.61	17.56	16.61	15.72	14.77	13.46	12.46	11.83	11.04
360.0	18.13	17.03	15.72	14.35	13.40	12.46	11.41	10.25	9.41

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.67	7.94	7.25	6.57	5.99	5.47	5.05	4.52	3.99
45.0	8.36	7.62	6.99	6.47	5.94	5.41	4.84	4.36	3.94
90.0	6.78	6.15	5.89	5.31	4.84	4.36	3.94	3.47	3.05
135.0	8.20	7.52	6.89	6.25	5.73	5.15	4.73	4.21	3.78
180.0	10.04	9.20	8.46	7.78	7.04	6.36	5.83	5.26	4.73
225.0	9.46	8.67	8.30	7.67	6.99	6.41	5.89	5.31	4.78
270.0	11.20	10.30	9.30	8.57	7.94	7.31	6.73	6.10	5.68
315.0	9.88	9.04	8.41	7.73	7.04	6.47	5.89	5.41	4.94
360.0	8.67	7.94	7.25	6.57	5.99	5.47	5.05	4.52	3.99

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.57	3.15	2.73	2.42	2.05	1.79	1.52	1.31	1.10
45.0	3.42	3.00	2.47	2.10	1.84	1.47	1.26	1.10	0.95
90.0	2.68	2.21	2.00	1.73	1.42	1.21	1.05	0.89	0.89
135.0	3.26	2.94	2.52	2.16	1.84	1.58	1.37	1.16	1.00
180.0	4.21	3.84	3.26	2.94	2.42	2.16	1.79	1.47	1.26
225.0	4.36	3.78	3.36	3.00	2.63	2.21	1.89	1.52	1.26
270.0	5.15	4.68	4.10	3.73	3.26	2.84	2.52	2.10	1.89
315.0	4.47	4.10	3.68	3.21	2.79	2.52	2.10	1.84	1.68
360.0	3.57	3.15	2.73	2.42	2.05	1.79	1.52	1.31	1.10

Intensity data(cd)

C/γ(°)	90.0
0.0	1.05
45.0	1.00
90.0	0.89
135.0	0.95
180.0	1.05
225.0	1.21
270.0	1.58
315.0	1.42
360.0	1.05