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Nata

Client:
LumCAT: 2-2519-L
Luminaire: 92.70.411.00
Report No: 2024911-B003
Ballast type: AC

Test No: 2024911-C003	Voltage(V): 33.860
LampCAT: NICHIA NFCWJ120B-V3	Current(A): 0.580
Lamp flux(lm): 2595.0	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): 2347.17, Efficiency(%): 90.45% , Luminous Efficacy(lm/W): 119.57
Central intensity(cd): 7866.319, Maximum intensity(cd): 7866.319
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=26.4
[C90/270]Total=26.4
Field angle(10%Imax): [C0/180]Total=57.2
[C90/270]Total=57.2
Maximum s/h(1/2): C0_180=0.44 C90_270=0.44
Maximum s/h(1/4): C0_180=0.48 C90_270=0.48
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.45%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.078%

Nata 2-2519-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7866.320	0.000	0	0.00%	0.00%
1.0	7837.483	7.514	7.514	0.29%	0.32%
2.0	7763.941	22.393	29.907	0.86%	1.27%
3.0	7601.602	36.749	66.656	1.42%	2.84%
4.0	7386.674	50.171	116.826	1.93%	4.98%
5.0	7144.302	62.511	179.338	2.41%	7.64%
6.0	6833.276	73.456	252.794	2.83%	10.77%
7.0	6443.676	82.410	335.204	3.18%	14.28%
8.0	6034.786	89.306	424.51	3.44%	18.09%
9.0	5631.402	94.548	519.058	3.64%	22.11%
10.0	5178.431	97.825	616.883	3.77%	26.28%
11.0	4797.530	99.680	716.563	3.84%	30.53%
12.0	4361.347	100.120	816.683	3.86%	34.79%
13.0	3990.000	99.109	915.792	3.82%	39.02%
14.0	3619.684	97.403	1013.195	3.75%	43.17%
15.0	3263.737	94.499	1107.694	3.64%	47.19%
16.0	2962.101	91.226	1198.92	3.52%	51.08%
17.0	2691.463	88.041	1286.961	3.39%	54.83%
18.0	2453.414	84.828	1371.789	3.27%	58.44%
19.0	2204.432	81.037	1452.826	3.12%	61.90%
20.0	2007.743	77.094	1529.921	2.97%	65.18%
21.0	1815.798	73.420	1603.34	2.83%	68.31%
22.0	1626.369	69.172	1672.512	2.67%	71.26%
23.0	1500.180	65.603	1738.116	2.53%	74.05%
24.0	1313.353	61.514	1799.629	2.37%	76.67%
25.0	1186.487	56.841	1856.47	2.19%	79.09%
26.0	1058.642	52.997	1909.467	2.04%	81.35%
27.0	954.588	49.254	1958.721	1.90%	83.45%
28.0	848.983	45.663	2004.384	1.76%	85.40%
29.0	742.741	41.644	2046.028	1.60%	87.17%
30.0	631.492	37.104	2083.132	1.43%	88.75%
31.0	546.834	32.791	2115.923	1.26%	90.15%
32.0	467.353	29.055	2144.978	1.12%	91.39%
33.0	388.746	25.221	2170.199	0.97%	92.46%
34.0	332.497	21.827	2192.026	0.84%	93.39%
35.0	272.241	18.781	2210.807	0.72%	94.19%
36.0	225.795	15.858	2226.664	0.61%	94.87%
37.0	176.465	13.119	2239.784	0.51%	95.42%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	147.405	10.810	2250.594	0.42%	95.89%
39.0	125.072	9.300	2259.895	0.36%	96.28%
40.0	96.124	7.715	2267.609	0.30%	96.61%
41.0	79.448	6.252	2273.861	0.24%	96.88%
42.0	65.703	5.274	2279.135	0.20%	97.10%
43.0	57.543	4.565	2283.7	0.18%	97.30%
44.0	50.256	4.069	2287.769	0.16%	97.47%
45.0	44.474	3.641	2291.409	0.14%	97.62%
46.0	40.138	3.309	2294.718	0.13%	97.77%
47.0	36.820	3.061	2297.779	0.12%	97.90%
48.0	33.555	2.845	2300.624	0.11%	98.02%
49.0	30.834	2.644	2303.268	0.10%	98.13%
50.0	28.798	2.486	2305.755	0.10%	98.24%
51.0	26.794	2.352	2308.107	0.09%	98.34%
52.0	25.302	2.235	2310.342	0.09%	98.43%
53.0	24.001	2.145	2312.487	0.08%	98.52%
54.0	22.740	2.060	2314.547	0.08%	98.61%
55.0	21.643	1.981	2316.528	0.08%	98.69%
56.0	20.848	1.920	2318.448	0.07%	98.78%
57.0	19.928	1.864	2320.312	0.07%	98.86%
58.0	19.041	1.802	2322.115	0.07%	98.93%
59.0	18.285	1.745	2323.86	0.07%	99.01%
60.0	17.293	1.681	2325.54	0.06%	99.08%
61.0	16.373	1.607	2327.147	0.06%	99.15%
62.0	15.526	1.537	2328.684	0.06%	99.21%
63.0	14.553	1.463	2330.147	0.06%	99.27%
64.0	13.752	1.389	2331.536	0.05%	99.33%
65.0	12.871	1.318	2332.853	0.05%	99.39%
66.0	12.070	1.244	2334.098	0.05%	99.44%
67.0	11.248	1.172	2335.27	0.05%	99.49%
68.0	10.486	1.101	2336.371	0.04%	99.54%
69.0	9.770	1.033	2337.405	0.04%	99.58%
70.0	9.021	0.965	2338.37	0.04%	99.62%
71.0	8.351	0.898	2339.268	0.03%	99.66%
72.0	7.687	0.834	2340.102	0.03%	99.70%
73.0	7.057	0.771	2340.873	0.03%	99.73%
74.0	6.452	0.710	2341.583	0.03%	99.76%
75.0	5.972	0.656	2342.239	0.03%	99.79%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.407	0.604	2342.843	0.02%	99.82%
77.0	4.961	0.553	2343.396	0.02%	99.84%
78.0	4.534	0.508	2343.904	0.02%	99.86%
79.0	4.060	0.462	2344.366	0.02%	99.88%
80.0	3.725	0.420	2344.786	0.02%	99.90%
81.0	3.338	0.382	2345.168	0.01%	99.91%
82.0	3.022	0.345	2345.513	0.01%	99.93%
83.0	2.674	0.310	2345.822	0.01%	99.94%
84.0	2.372	0.275	2346.097	0.01%	99.95%
85.0	2.083	0.243	2346.34	0.01%	99.96%
86.0	1.840	0.214	2346.555	0.01%	99.97%
87.0	1.583	0.187	2346.742	0.01%	99.98%
88.0	1.373	0.162	2346.904	0.01%	99.99%
89.0	1.209	0.142	2347.046	0.01%	99.99%
90.0	1.110	0.127	2347.173	0.00%	100.00%

Zonal flux distribution table

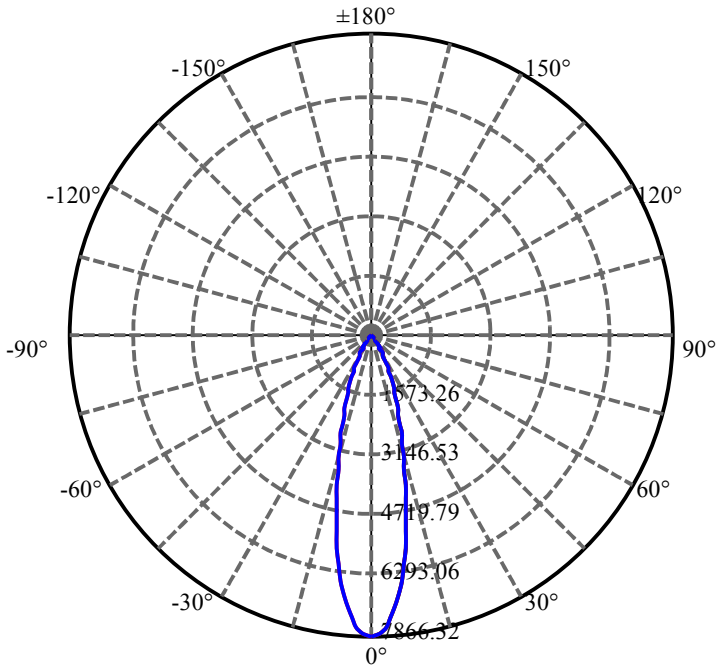
ZONAL LUMEN SUMMARY

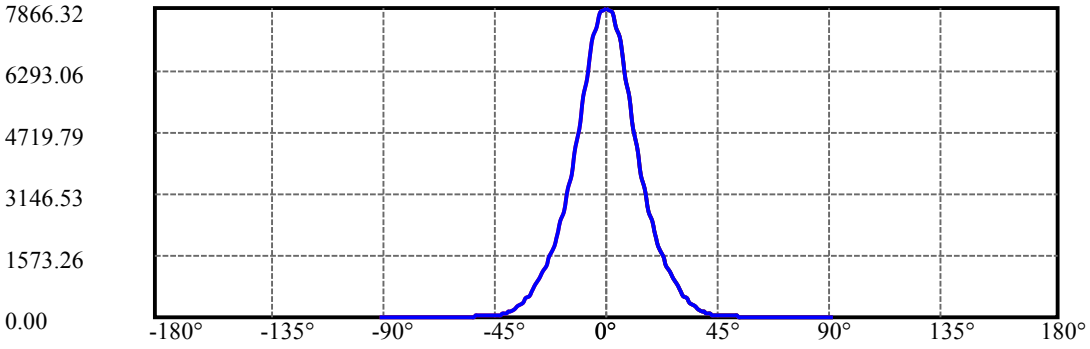
Zone	Lumens	%Lamp	%Fixt
0-30	2083.13	80.27%	88.75%
0-40	2267.61	87.38%	96.61%
0-60	2325.54	89.62%	99.08%
0-90	2347.05	90.44%	99.99%
0-120	2347.05	90.44%	99.99%
0-180	2347.17	90.45%	100.00%
60-90	21.51	0.83%	0.92%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.40	1877.74	72.36%	80.00%

ZONAL LUMEN SUMMARY

0-10	616.88
10-20	913.04
20-30	553.21
30-40	184.48
40-50	38.15
50-60	19.79
60-70	12.83
70-80	6.42
80-90	2.26
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):

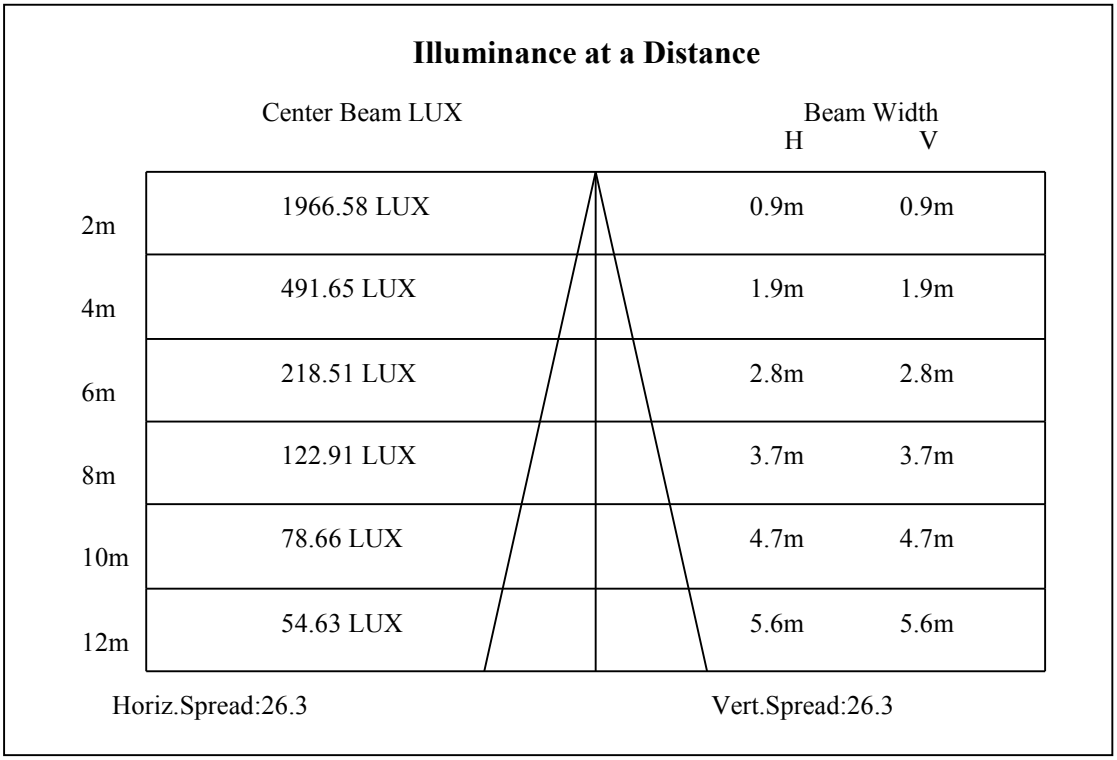
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:28.6 Right:28.6
:C90/270Left:28.6 Right:28.6

Beam Angle(50%Imax):C0/180Left:13.2 Right:13.2
:C90/270Left:13.2 Right:13.2

Lux distance Curve

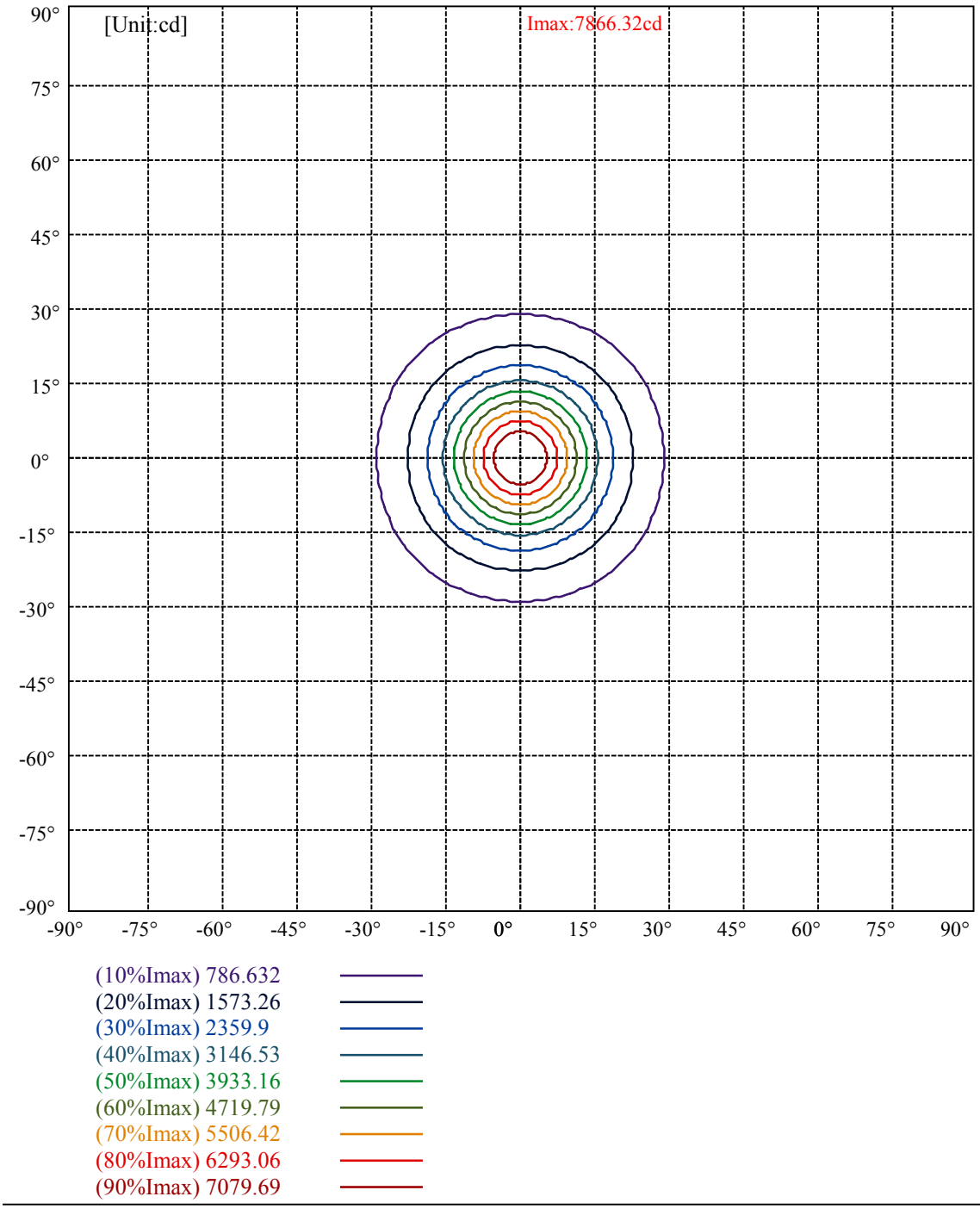


Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)



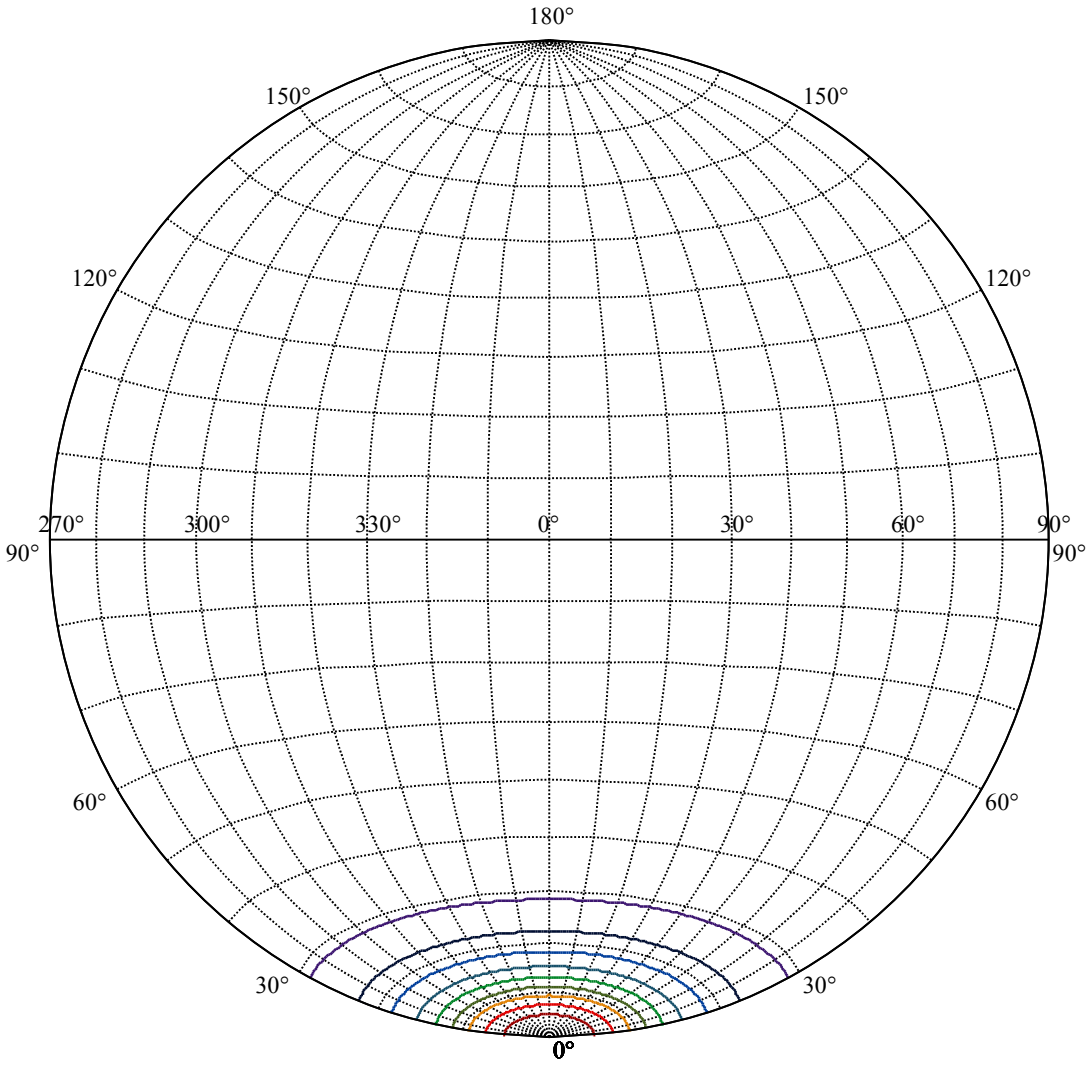
(10%Imax) 786.632
(20%Imax) 1573.26
(30%Imax) 2359.9
(40%Imax) 3146.53
(50%Imax) 3933.16
(60%Imax) 4719.79
(70%Imax) 5506.42
(80%Imax) 6293.06
(90%Imax) 7079.69

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:7866.32

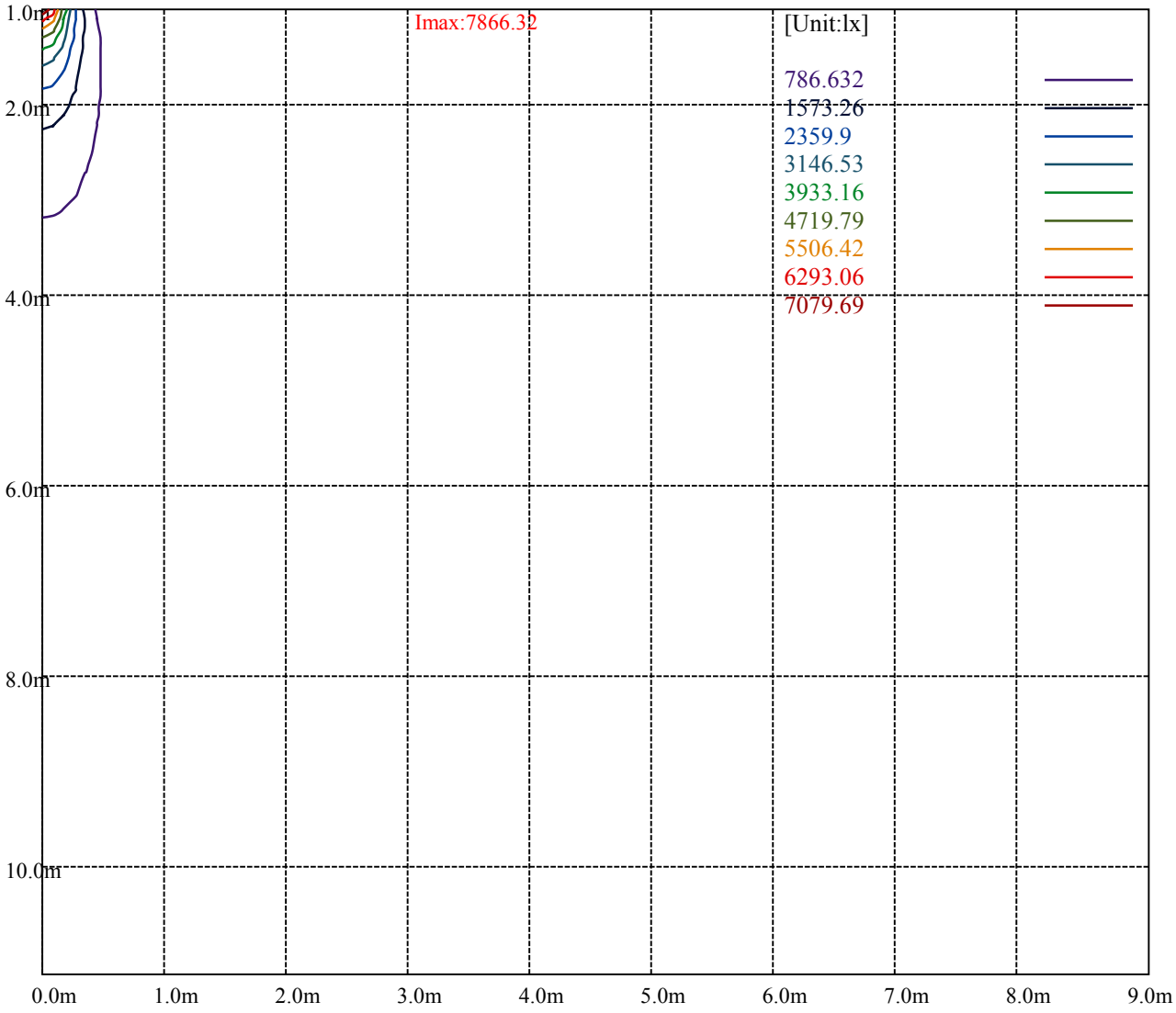
(10%Imax) 786.632
(20%Imax) 1573.26
(30%Imax) 2359.9
(40%Imax) 3146.53
(50%Imax) 3933.16
(60%Imax) 4719.79
(70%Imax) 5506.42
(80%Imax) 6293.06
(90%Imax) 7079.69

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 2-2519-L

Luminance Limitting Curve(no luminous side)

Luminance Table

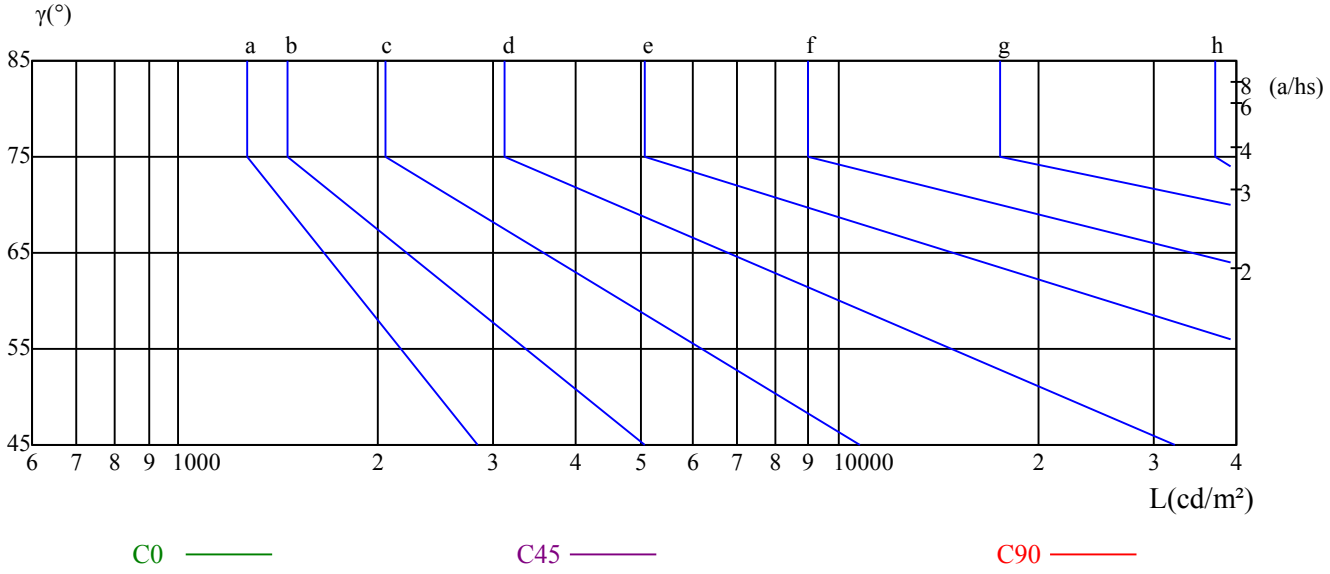
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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%

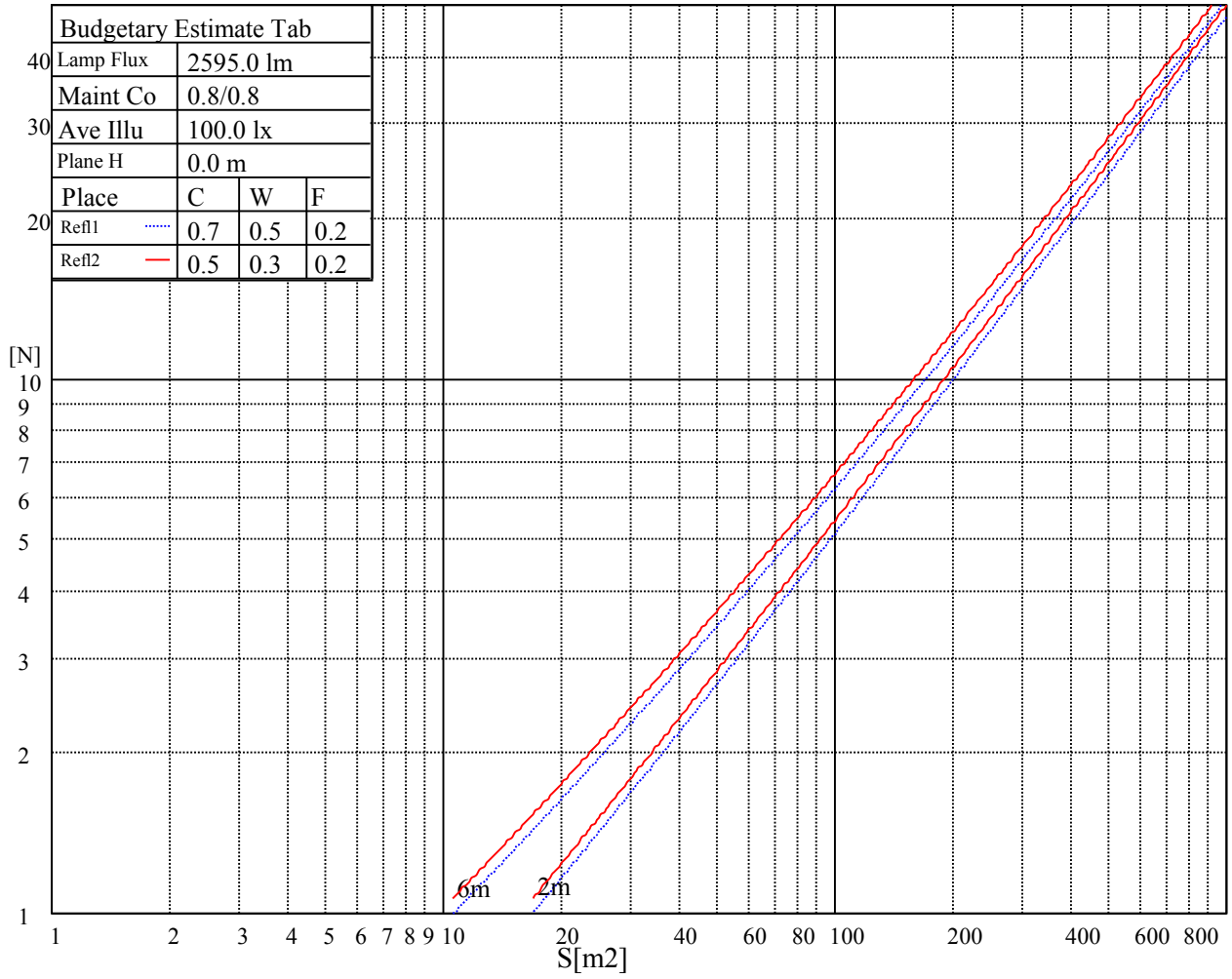
Operator: NT
Distance(m): 7.25

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

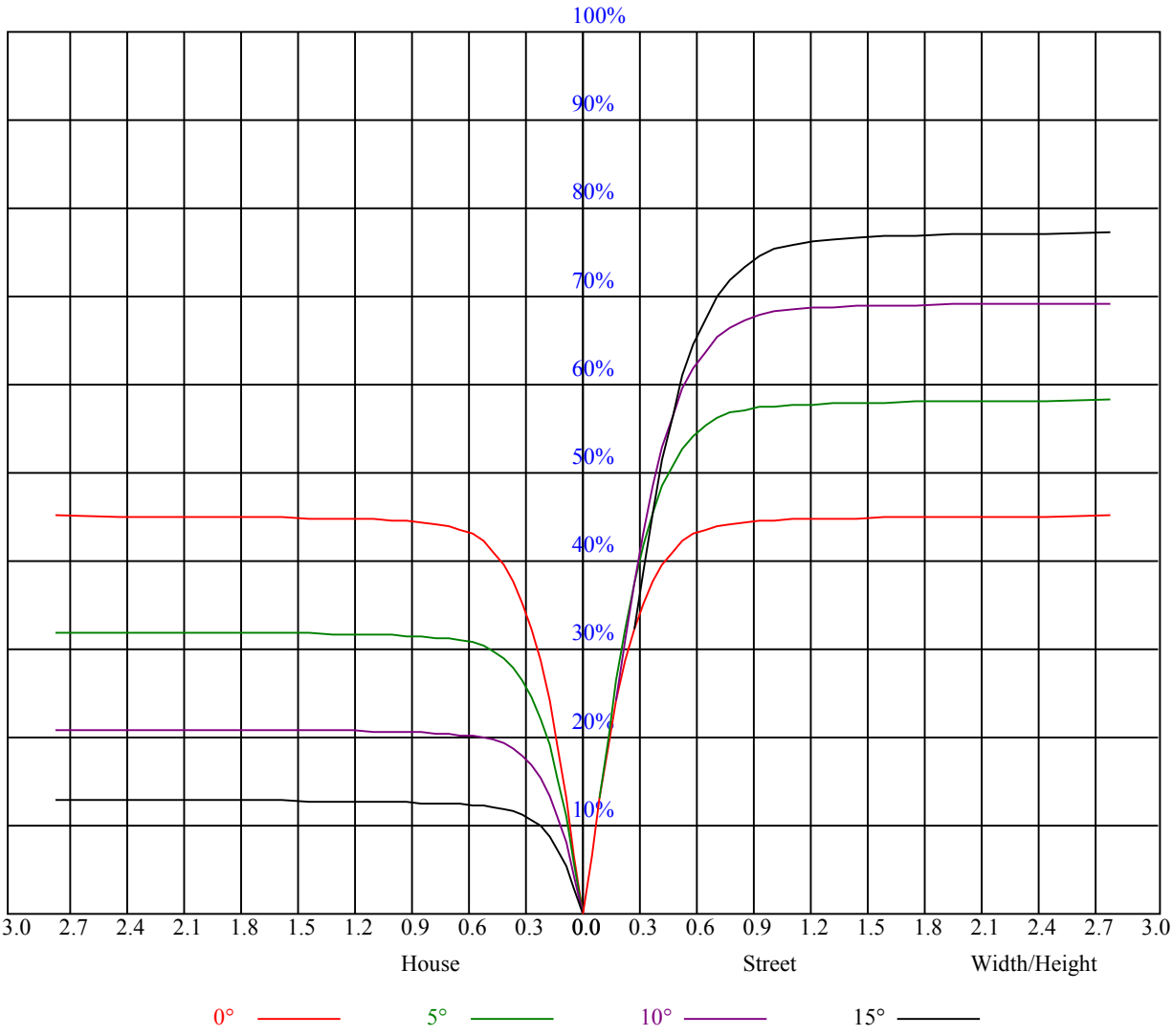
Date: 2024/9/11
Humidity(%): 60.0%

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	1.08	1.08	1.08	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	0.99	0.98	0.99	0.98	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.86
2	0.96	0.93	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	0.86	0.84	0.87	0.85	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.79
4	0.87	0.82	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
6	0.79	0.75	0.72	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
7	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.70	0.67	0.66
8	0.73	0.69	0.66	0.73	0.68	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.64
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.62
10	0.68	0.64	0.61	0.67	0.63	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.66	0.63	0.60	0.59

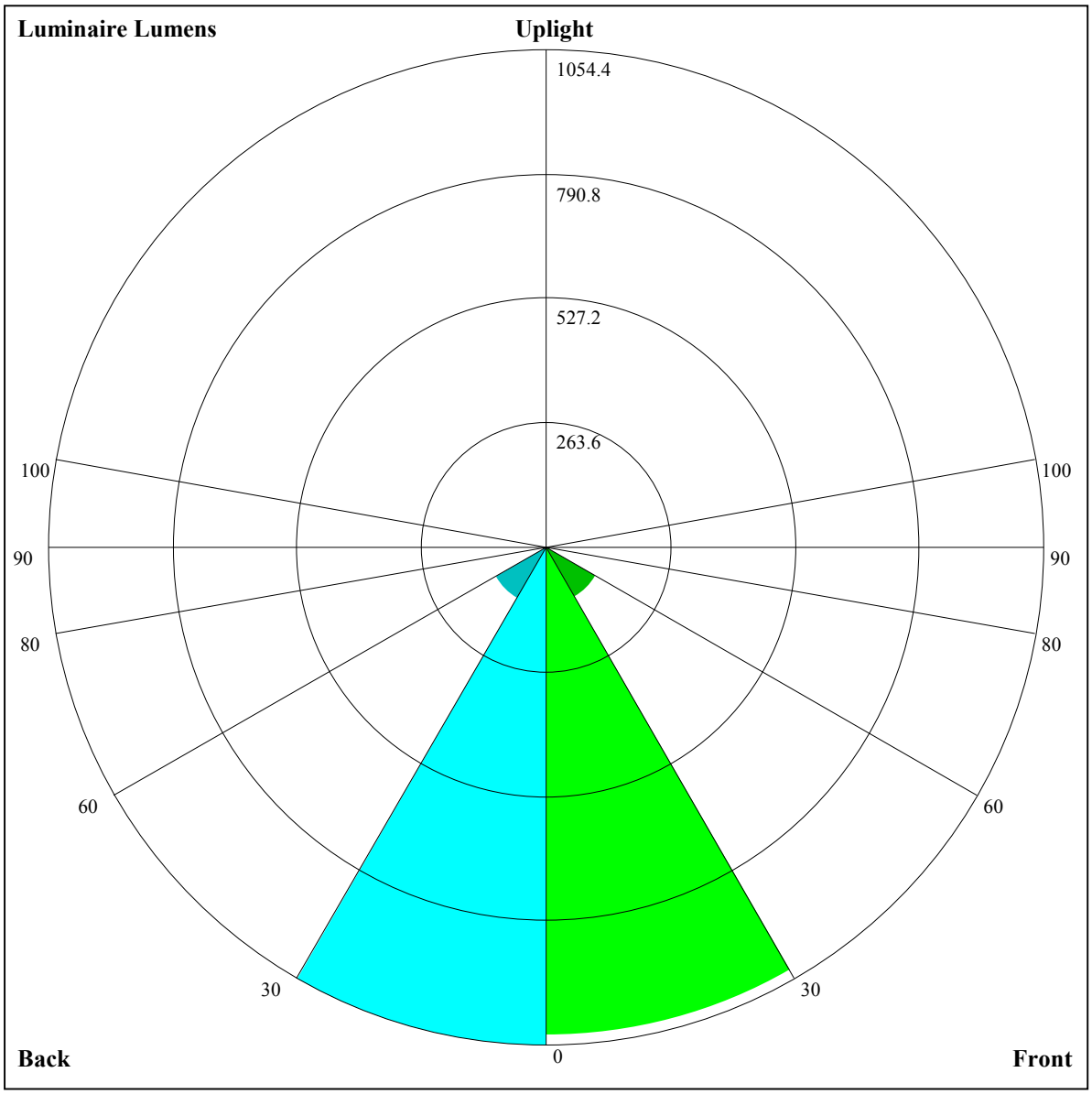
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=1032.97,FM=122.66,FH=9.65,FVH=1.22
BL=1054.4,BM=125.42,BH=9.65,BVH=1.2
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	7876.91	7799.43	7652.36	7462.40	7190.50	6863.40	6498.46	6105.13	5676.64
45.0	7901.98	7778.30	7682.43	7396.07	7110.23	6929.16	6559.22	6143.56	5699.51
90.0	7736.52	7534.26	7263.45	6935.31	6567.00	6145.24	5694.52	5225.92	4765.16
135.0	7949.87	7815.62	7644.58	7411.68	7115.28	6768.16	6541.40	5951.91	5495.57
180.0	7876.91	7886.95	7858.51	7709.76	7533.15	7401.12	7124.16	6797.12	6433.86
225.0	7901.98	7961.01	7942.67	7861.30	7710.29	7470.18	7171.00	6821.09	6432.76
270.0	7736.52	7911.44	8040.17	8083.06	8084.17	8034.02	7829.55	7610.05	7265.71
315.0	7949.87	8012.84	8027.35	7953.23	7782.77	7543.14	7247.90	6894.62	6509.08
360.0	7876.91	7799.43	7652.36	7462.40	7190.50	6863.40	6498.46	6105.13	5676.64

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5222.03	4758.48	4328.31	3931.10	3568.94	3231.28	2913.12	2641.27	2491.94
45.0	5246.53	4790.23	4357.85	3966.16	3594.54	3241.84	2926.52	2656.30	2413.93
90.0	4325.00	3930.52	3556.12	3212.88	2901.98	2630.65	2384.39	2166.52	1957.59
135.0	5219.77	4584.08	4333.88	3929.41	3555.01	3208.99	2891.99	2617.82	2373.83
180.0	6031.60	5590.86	5136.78	4683.27	4256.46	3864.24	3501.50	3167.78	2866.34
225.0	6017.67	5609.26	5181.93	4740.09	4312.75	3909.34	3599.59	3180.03	2874.70
270.0	6892.94	6486.79	6063.87	5621.51	5193.07	4765.68	4332.78	3920.48	3537.72
315.0	6095.67	5677.22	5421.51	4806.37	4537.25	4105.45	3560.01	3346.60	3015.67
360.0	5222.03	4758.48	4328.31	3931.10	3568.94	3231.28	2913.12	2641.27	2491.94

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2264.60	1972.67	1854.51	1680.69	1523.58	1376.51	1066.70	1066.70	968.99
45.0	2190.49	1977.66	1784.34	1606.05	1450.57	1363.10	1173.67	1047.20	973.09
90.0	1840.58	1663.97	1501.29	1355.85	1098.98	1098.98	971.14	850.46	735.93
135.0	2150.38	1943.66	1754.80	1583.18	1431.64	1294.04	1163.10	1041.63	922.42
180.0	2597.80	2361.53	2134.77	1935.30	1749.23	1585.44	1436.11	1299.61	1198.21
225.0	2657.98	2361.00	2182.13	1968.73	1777.66	1604.94	1446.68	1248.89	1102.29
270.0	3197.85	2883.63	2609.47	2367.10	2150.38	2025.02	1758.69	1588.75	1495.14
315.0	2727.63	2471.33	2240.63	2029.49	1828.91	1653.41	1490.73	1348.65	1073.06
360.0	2264.60	1972.67	1854.51	1680.69	1523.58	1376.51	1066.70	1066.70	968.99

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	851.88	737.40	631.54	535.51	451.04	402.58	303.39	244.68	214.24
45.0	852.77	738.56	632.69	539.08	455.51	379.19	311.17	286.68	228.33
90.0	628.28	533.19	447.89	369.83	302.34	245.10	206.26	159.42	134.09
135.0	805.42	693.98	591.43	519.58	419.29	359.11	291.67	291.67	188.38
180.0	1075.06	936.87	844.42	729.62	624.86	531.25	446.57	369.15	298.92
225.0	1052.30	932.51	817.56	705.23	602.89	513.69	433.75	360.47	320.74
270.0	1297.93	1221.61	1096.24	928.52	858.87	745.76	639.37	546.33	461.60
315.0	1073.06	997.74	880.16	724.57	659.87	562.16	477.79	401.58	331.62
360.0	851.88	737.40	631.54	535.51	451.04	402.58	303.39	244.68	214.24

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	172.41	138.45	112.12	91.46	75.74	64.28	56.14	50.04	45.10
45.0	159.84	130.46	107.33	89.46	80.63	69.07	56.98	53.04	47.67
90.0	109.22	86.99	75.90	65.28	57.50	51.51	46.68	42.79	39.47
135.0	151.22	121.95	98.98	81.63	68.59	58.76	51.20	45.26	40.79
180.0	298.92	191.27	152.54	121.47	97.45	85.89	65.86	59.82	51.62
225.0	260.76	210.62	169.20	135.30	108.75	88.09	72.38	60.81	52.77
270.0	384.76	315.64	290.04	277.74	169.41	128.52	102.76	86.52	70.85
315.0	269.23	216.35	173.14	138.24	110.91	89.46	73.64	62.08	53.77
360.0	172.41	138.45	112.12	91.46	75.74	64.28	56.14	50.04	45.10

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	40.89	37.42	34.48	31.85	29.65	27.81	26.18	24.76	24.02
45.0	43.21	39.68	37.00	34.59	32.01	30.01	28.49	27.12	25.65
90.0	36.74	34.27	31.91	29.96	28.28	26.81	25.49	24.28	23.29
135.0	38.37	33.85	32.22	29.75	27.02	26.07	24.65	23.44	22.55
180.0	43.05	40.26	36.16	32.75	29.96	27.49	25.49	24.02	22.65
225.0	46.52	41.52	37.32	33.85	31.01	28.38	26.23	24.55	23.34
270.0	59.45	51.30	45.26	40.58	36.64	33.32	30.64	28.17	26.12
315.0	47.57	42.79	40.21	35.11	32.12	30.49	27.17	26.07	24.39
360.0	40.89	37.42	34.48	31.85	29.65	27.81	26.18	24.76	24.02

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.55	21.50	20.87	19.50	18.92	18.03	16.93	15.82	14.93
45.0	24.34	23.29	22.44	21.45	20.34	19.55	17.87	16.87	16.29
90.0	22.60	21.08	20.55	19.45	17.82	17.14	16.08	15.03	14.03
135.0	21.60	20.81	19.97	19.19	18.50	17.50	16.45	15.66	14.82
180.0	21.55	20.71	19.92	19.24	18.55	17.87	17.24	16.35	15.40
225.0	21.81	20.97	20.39	19.76	19.03	18.45	17.71	16.77	15.82
270.0	24.49	22.97	21.76	20.87	20.03	19.34	18.45	17.71	17.03
315.0	22.97	21.81	20.87	19.97	19.13	18.40	17.61	16.77	15.87
360.0	22.55	21.50	20.87	19.50	18.92	18.03	16.93	15.82	14.93

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.98	13.04	12.14	11.35	10.62	9.83	9.15	8.46	7.78
45.0	14.82	14.09	13.25	12.30	11.30	10.35	9.67	8.83	8.04
90.0	13.14	12.19	11.30	10.51	9.62	8.88	8.09	7.41	6.73
135.0	13.77	12.93	12.19	11.51	10.46	9.67	9.20	8.41	7.78
180.0	14.51	13.77	13.09	12.09	11.46	10.67	9.93	9.20	8.52
225.0	15.03	14.14	13.40	12.51	11.77	11.09	10.35	9.51	8.83
270.0	16.19	15.66	14.35	13.88	13.04	12.25	11.51	10.78	10.14
315.0	14.98	14.19	13.25	12.40	11.72	11.14	10.25	9.57	8.99
360.0	13.98	13.04	12.14	11.35	10.62	9.83	9.15	8.46	7.78

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.10	6.52	6.04	5.57	5.05	4.73	4.21	3.84	3.57
45.0	7.31	6.68	6.10	5.52	5.05	4.63	4.21	3.78	3.36
90.0	6.04	5.52	5.05	4.78	4.15	3.78	3.57	3.00	2.84
135.0	7.15	6.57	5.94	5.41	4.89	4.52	4.10	3.68	3.31
180.0	7.88	7.25	6.62	6.04	5.62	5.10	4.63	4.21	3.84
225.0	8.20	7.46	6.73	6.41	5.68	5.26	4.84	4.21	3.94
270.0	9.46	8.78	8.09	7.46	6.78	6.15	5.68	5.15	4.73
315.0	8.36	7.67	7.04	6.57	6.04	5.52	5.05	4.63	4.21
360.0	7.10	6.52	6.04	5.57	5.05	4.73	4.21	3.84	3.57

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.15	2.89	2.52	2.26	2.00	1.79	1.47	1.31	1.16
45.0	3.00	2.79	2.42	2.16	1.84	1.58	1.37	1.16	1.05
90.0	2.42	2.21	1.94	1.73	1.52	1.31	1.16	1.10	1.10
135.0	3.00	2.73	2.31	2.00	1.79	1.52	1.37	1.05	0.95
180.0	3.42	3.10	2.79	2.37	2.05	1.94	1.58	1.37	1.21
225.0	3.68	3.15	2.89	2.52	2.26	1.94	1.73	1.42	1.21
270.0	4.26	3.89	3.42	3.15	2.79	2.42	2.16	1.89	1.58
315.0	3.78	3.42	3.10	2.79	2.42	2.21	1.84	1.68	1.42
360.0	3.15	2.89	2.52	2.26	2.00	1.79	1.47	1.31	1.16

Intensity data(cd)

C/γ(°)	90.0
0.0	1.05
45.0	1.05
90.0	1.05
135.0	0.95
180.0	0.95
225.0	1.10
270.0	1.42
315.0	1.31
360.0	1.05