NATA LIGHTING CO .LED
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Address:380 JinOu Road, JiangMen City, GuangDong, China 529040

NT

Client: NT
LumCAT: 2-2818-L2
Luminaire: 92.70.411.00 LED HOLDER
Report No: 20250319-B001
Ballast type: AC

Test No: 20250319-C001	Voltage(V): 34.550
LampCAT: LUMILEDS LUXEON COB 1208	Current(A): 0.661
Lamp flux(lm): 3142.0	Power (W): 22.837
Number of Lamps: 1	PF: 0.000
Length(mm): 75	Width(mm): 75
Phm Type: C	Height(mm): 52

Photometric Results

Lumens(lm): 2900.30, Efficiency(%): 92.31% , Luminous Efficacy(lm/W): 127.00
Central intensity(cd): 4692.393, Maximum intensity(cd): 4706.438
Angle of maximum intensity: C=90.0 γ=1.0
Beam Angle(50%Imax): [C0/180]Total=49.6
[C90/270]Total=47.2
Field angle(10%Imax): [C0/180]Total=71.4
[C90/270]Total=69.2
Maximum s/h(1/2): C0_180=0.79 C90_270=0.74
Maximum s/h(1/4): C0_180=0.80 C90_270=0.74
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.31%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.247%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4688.150	0.000	0	0.00%	0.00%
1.0	4680.395	4.483	4.483	0.14%	0.15%
2.0	4658.596	13.404	17.887	0.43%	0.62%
3.0	4629.042	22.213	40.1	0.71%	1.38%
4.0	4583.760	30.838	70.938	0.98%	2.45%
5.0	4528.968	39.202	110.141	1.25%	3.80%
6.0	4469.714	47.290	157.431	1.51%	5.43%
7.0	4405.486	55.088	212.519	1.75%	7.33%
8.0	4332.113	62.533	275.053	1.99%	9.48%
9.0	4256.839	69.609	344.661	2.22%	11.88%
10.0	4179.662	76.347	421.009	2.43%	14.52%
11.0	4088.733	82.618	503.627	2.63%	17.36%
12.0	3992.610	88.341	591.968	2.81%	20.41%
13.0	3879.588	93.423	685.391	2.97%	23.63%
14.0	3760.275	97.790	783.18	3.11%	27.00%
15.0	3639.646	101.589	884.77	3.23%	30.51%
16.0	3508.994	104.748	989.517	3.33%	34.12%
17.0	3361.810	106.997	1096.514	3.41%	37.81%
18.0	3220.698	108.531	1205.045	3.45%	41.55%
19.0	3089.608	109.786	1314.832	3.49%	45.33%
20.0	2943.375	110.420	1425.252	3.51%	49.14%
21.0	2797.507	110.237	1535.489	3.51%	52.94%
22.0	2658.516	109.641	1645.13	3.49%	56.72%
23.0	2516.745	108.591	1753.721	3.46%	60.47%
24.0	2384.704	107.163	1860.884	3.41%	64.16%
25.0	2239.129	105.136	1966.02	3.35%	67.79%
26.0	2093.555	102.273	2068.293	3.26%	71.31%
27.0	1922.888	98.263	2166.557	3.13%	74.70%
28.0	1735.982	92.635	2259.191	2.95%	77.90%
29.0	1423.121	82.651	2341.843	2.63%	80.74%
30.0	1316.844	73.979	2415.821	2.35%	83.30%
31.0	1172.250	69.268	2485.089	2.20%	85.68%
32.0	988.130	61.892	2546.981	1.97%	87.82%
33.0	811.963	53.031	2600.013	1.69%	89.65%
34.0	639.790	43.934	2643.947	1.40%	91.16%
35.0	493.791	35.205	2679.152	1.12%	92.38%
36.0	377.068	27.728	2706.88	0.88%	93.33%
37.0	292.598	21.841	2728.721	0.70%	94.08%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	233.337	17.555	2746.276	0.56%	94.69%
39.0	183.629	14.232	2760.508	0.45%	95.18%
40.0	152.817	11.734	2772.242	0.37%	95.58%
41.0	114.967	9.536	2781.778	0.30%	95.91%
42.0	95.933	7.662	2789.44	0.24%	96.18%
43.0	82.195	6.598	2796.039	0.21%	96.41%
44.0	71.222	5.790	2801.829	0.18%	96.60%
45.0	62.795	5.150	2806.979	0.16%	96.78%
46.0	55.399	4.622	2811.602	0.15%	96.94%
47.0	48.779	4.143	2815.745	0.13%	97.08%
48.0	44.038	3.752	2819.497	0.12%	97.21%
49.0	39.876	3.446	2822.943	0.11%	97.33%
50.0	36.013	3.164	2826.107	0.10%	97.44%
51.0	33.043	2.922	2829.029	0.09%	97.54%
52.0	30.563	2.729	2831.758	0.09%	97.64%
53.0	28.661	2.576	2834.335	0.08%	97.73%
54.0	26.635	2.437	2836.772	0.08%	97.81%
55.0	25.201	2.314	2839.086	0.07%	97.89%
56.0	23.914	2.219	2841.305	0.07%	97.97%
57.0	22.875	2.139	2843.444	0.07%	98.04%
58.0	21.887	2.070	2845.514	0.07%	98.11%
59.0	21.105	2.010	2847.524	0.06%	98.18%
60.0	20.432	1.962	2849.487	0.06%	98.25%
61.0	19.839	1.922	2851.408	0.06%	98.31%
62.0	19.429	1.892	2853.301	0.06%	98.38%
63.0	19.130	1.875	2855.176	0.06%	98.44%
64.0	18.859	1.864	2857.04	0.06%	98.51%
65.0	18.654	1.856	2858.896	0.06%	98.57%
66.0	18.442	1.851	2860.747	0.06%	98.64%
67.0	18.179	1.841	2862.589	0.06%	98.70%
68.0	17.952	1.830	2864.419	0.06%	98.76%
69.0	17.703	1.819	2866.238	0.06%	98.83%
70.0	17.432	1.804	2868.042	0.06%	98.89%
71.0	17.111	1.785	2869.828	0.06%	98.95%
72.0	16.818	1.764	2871.592	0.06%	99.01%
73.0	16.547	1.745	2873.337	0.06%	99.07%
74.0	16.299	1.727	2875.063	0.05%	99.13%
75.0	16.050	1.709	2876.773	0.05%	99.19%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.816	1.692	2878.464	0.05%	99.25%
77.0	15.596	1.675	2880.139	0.05%	99.31%
78.0	15.413	1.660	2881.799	0.05%	99.36%
79.0	15.216	1.646	2883.445	0.05%	99.42%
80.0	14.996	1.629	2885.073	0.05%	99.48%
81.0	14.828	1.613	2886.686	0.05%	99.53%
82.0	14.616	1.597	2888.283	0.05%	99.59%
83.0	14.411	1.578	2889.861	0.05%	99.64%
84.0	14.243	1.561	2891.422	0.05%	99.69%
85.0	14.009	1.542	2892.964	0.05%	99.75%
86.0	13.687	1.514	2894.478	0.05%	99.80%
87.0	13.438	1.485	2895.962	0.05%	99.85%
88.0	13.226	1.461	2897.423	0.05%	99.90%
89.0	13.087	1.442	2898.865	0.05%	99.95%
90.0	13.007	1.431	2900.296	0.05%	100.00%

Zonal flux distribution table

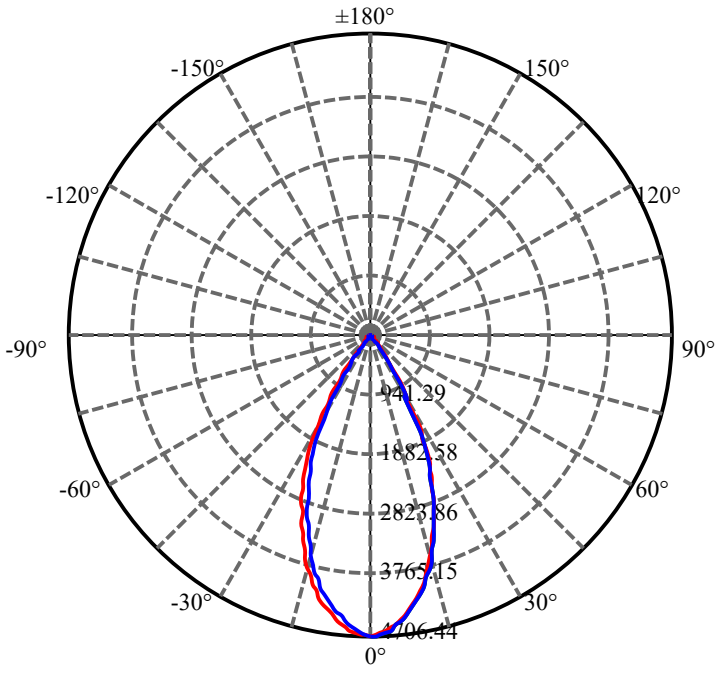
ZONAL LUMEN SUMMARY

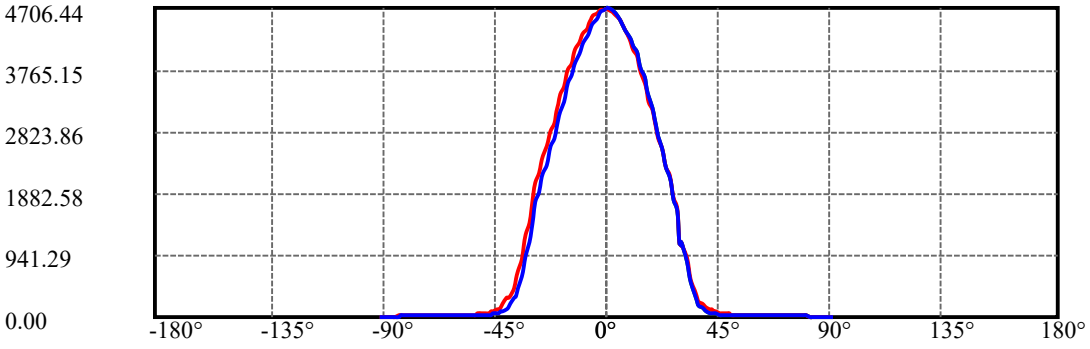
Zone	Lumens	%Lamp	%Fixt
0-30	2415.82	76.89%	83.30%
0-40	2772.24	88.23%	95.58%
0-60	2849.49	90.69%	98.25%
0-90	2898.87	92.26%	99.95%
0-120	2898.87	92.26%	99.95%
0-180	2900.30	92.31%	100.00%
60-90	49.38	1.57%	1.70%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.74	2320.24	73.85%	80.00%

ZONAL LUMEN SUMMARY

0-10	421.01
10-20	1004.24
20-30	990.57
30-40	356.42
40-50	53.87
50-60	23.38
60-70	18.56
70-80	17.03
80-90	13.79
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]





C90(Max):

C0/C180:

C90/C270:

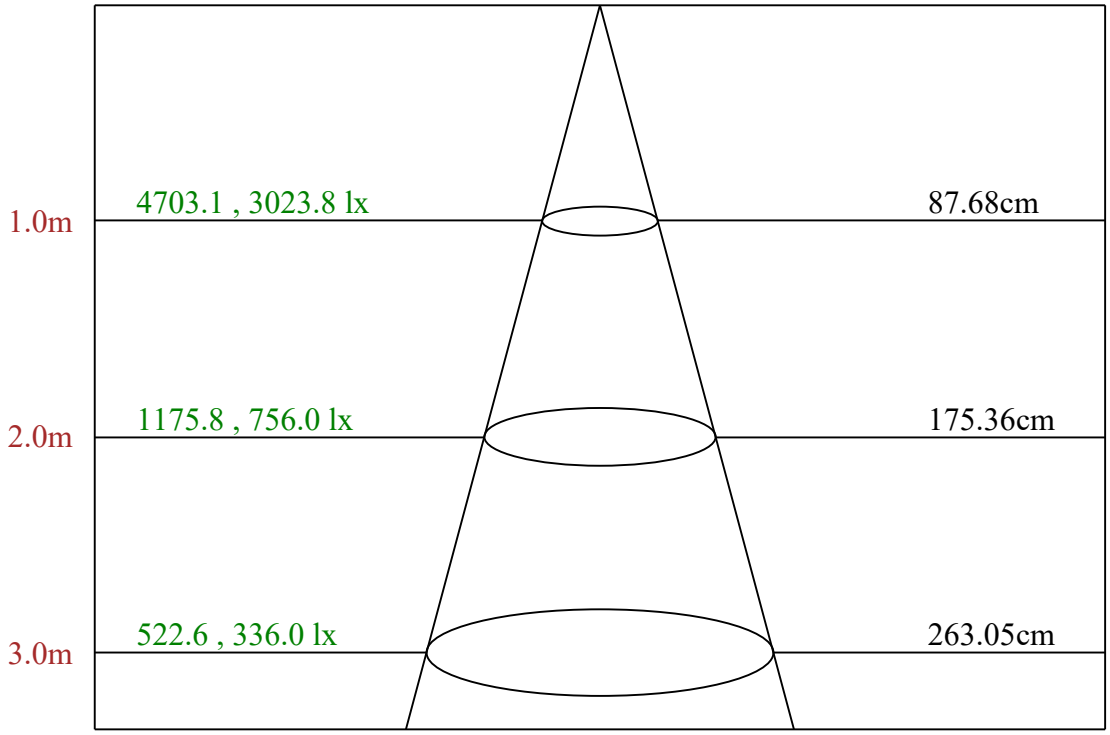
Field angle(10%Imax):C0/180Left:36.8 Right:34.6

:C90/270Left:35.8 Right:33.3

Beam Angle(50%Imax):C0/180Left:26.0 Right:23.6

:C90/270Left:24.8 Right:22.4

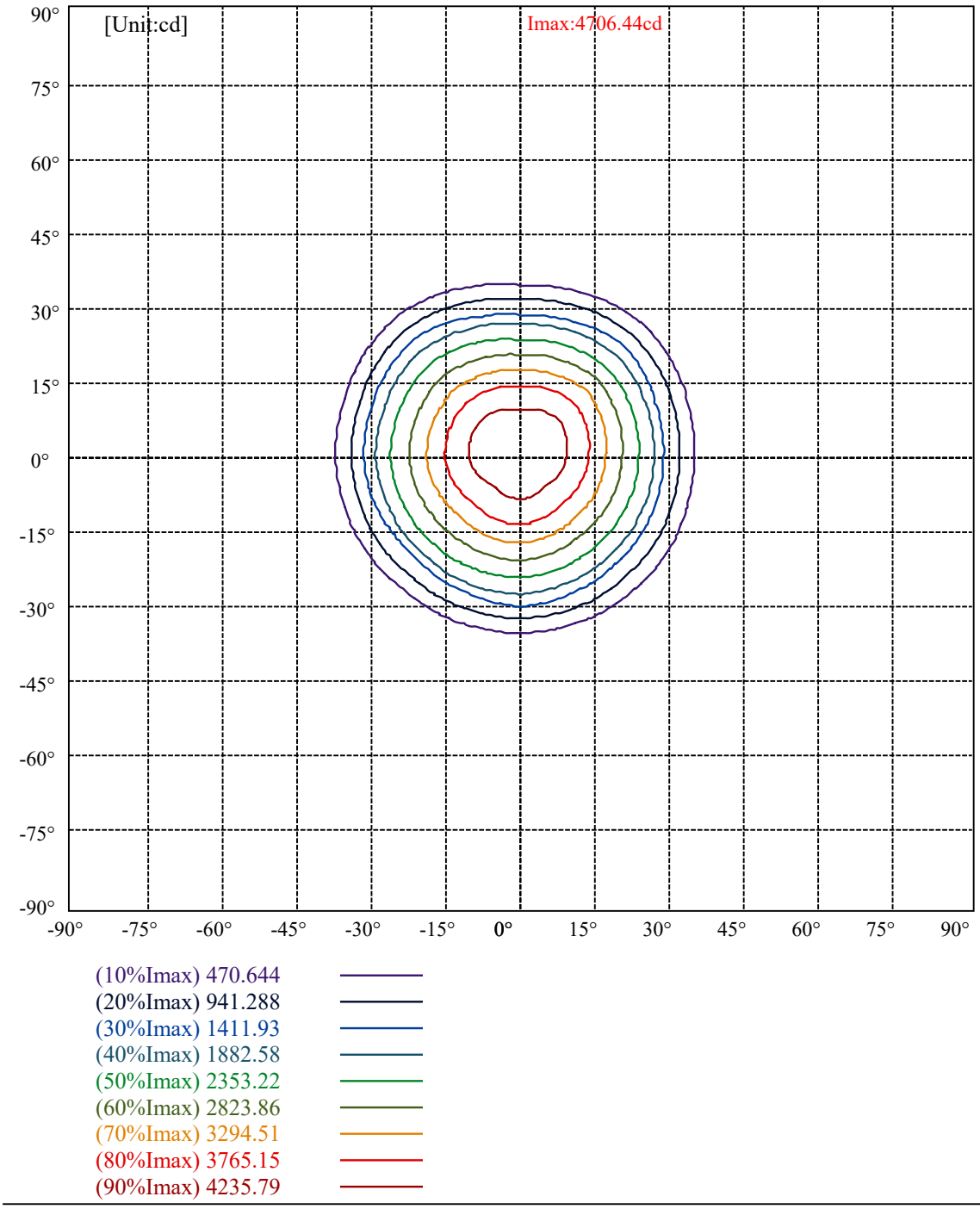
Lux distance Curve



Max , Ave

Beam angle of C90 plane 47.35

ISO-Intensity(V-H)



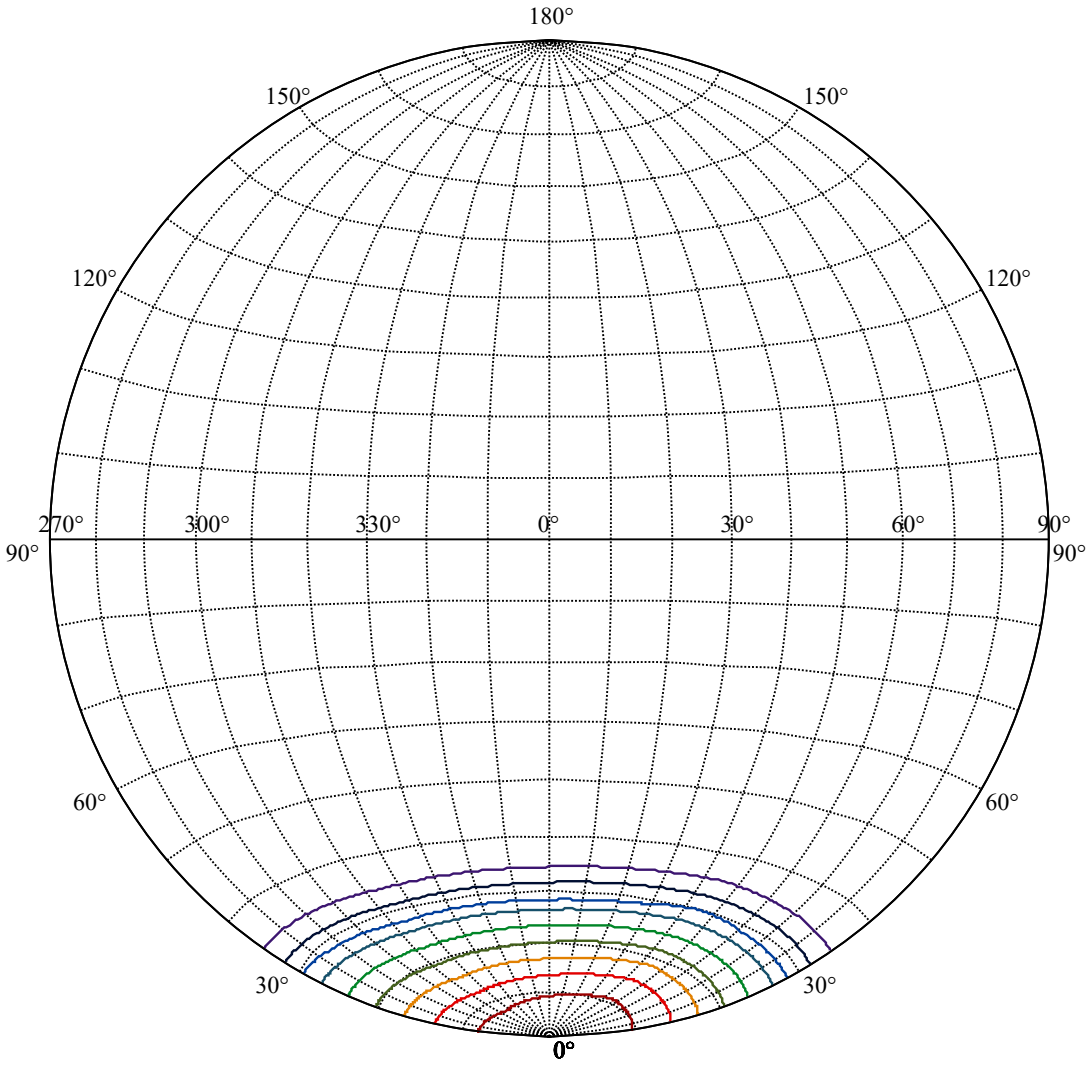
(10%Imax) 470.644
(20%Imax) 941.288
(30%Imax) 1411.93
(40%Imax) 1882.58
(50%Imax) 2353.22
(60%Imax) 2823.86
(70%Imax) 3294.51
(80%Imax) 3765.15
(90%Imax) 4235.79

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/12/31
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



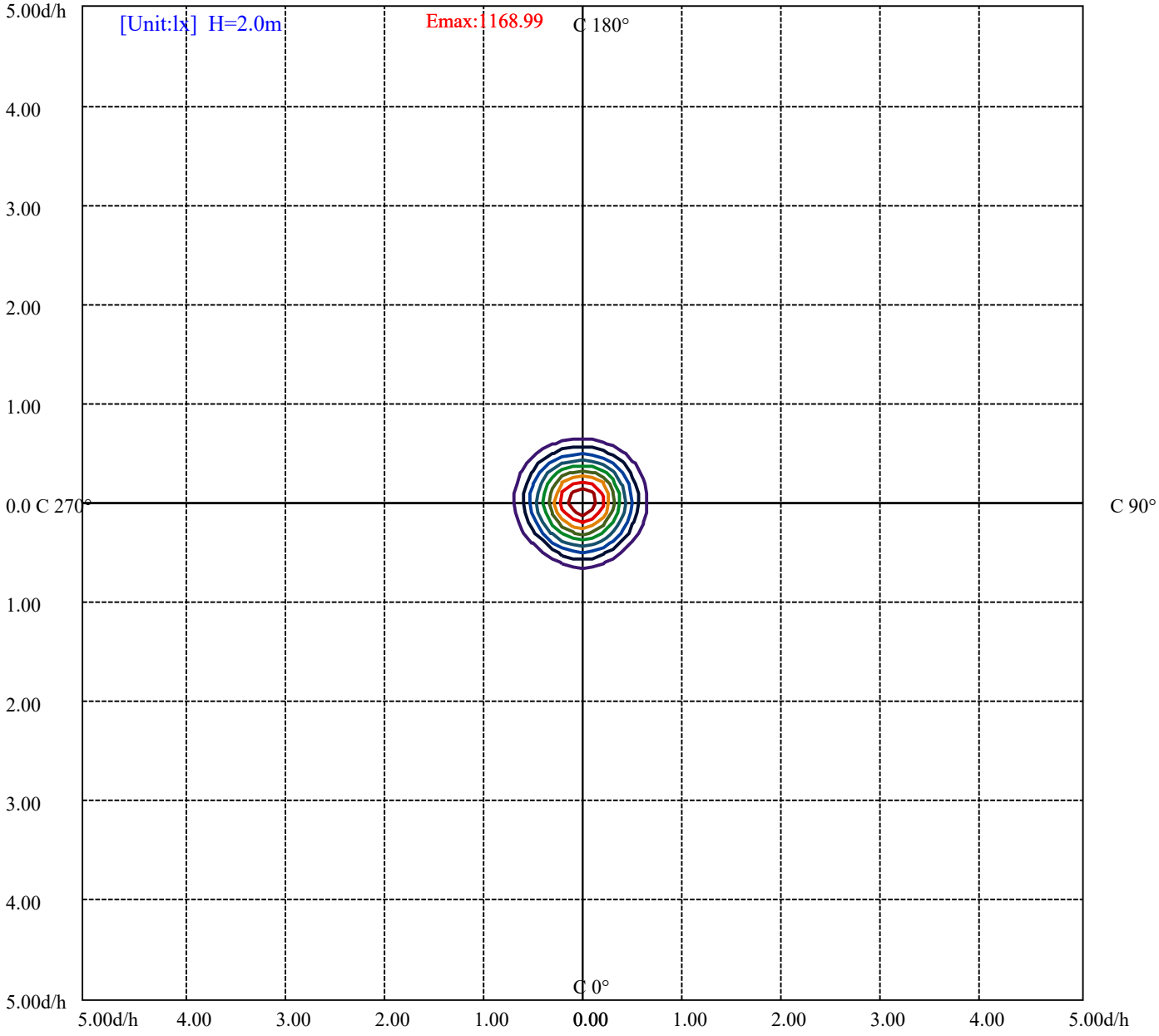
[Unit:cd]

Imax:4706.44

(10%Imax) 470.521
(20%Imax) 941.042
(30%Imax) 1411.56
(40%Imax) 1882.08
(50%Imax) 2352.6
(60%Imax) 2823.13
(70%Imax) 3293.65
(80%Imax) 3764.17
(90%Imax) 4234.69

NT NT 2-2818-L2

ISO illuminance diagram



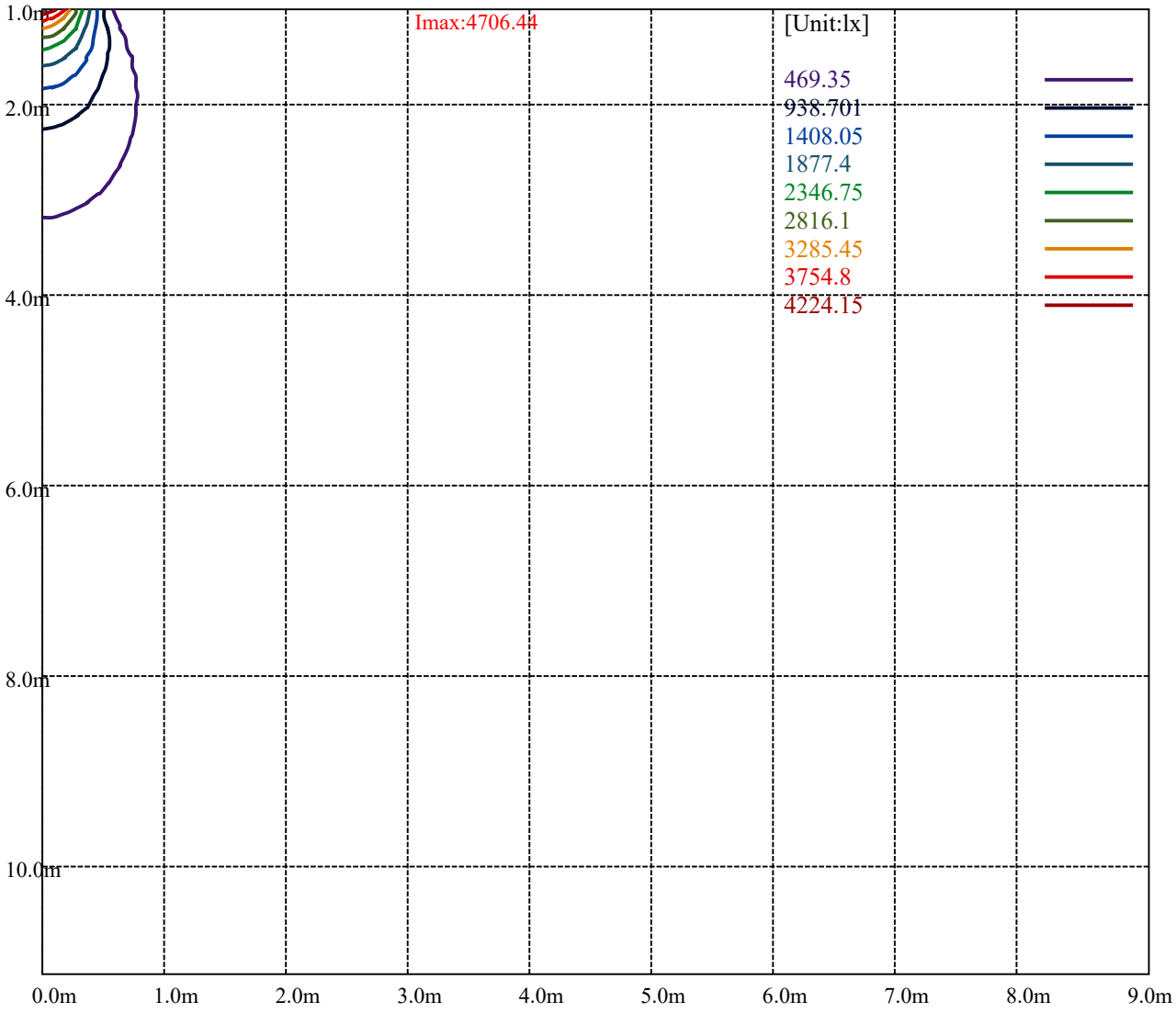
(10%Emax) 116.8988
(20%Emax) 233.7977
(30%Emax) 350.6975
(40%Emax) 467.595
(50%Emax) 584.495
(60%Emax) 701.3925
(70%Emax) 818.2925
(80%Emax) 935.19
(90%Emax) 1052.09

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/12/31
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/12/31
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT NT 2-2818-L2

Luminance Limitting Curve(no luminous side)

Luminance Table

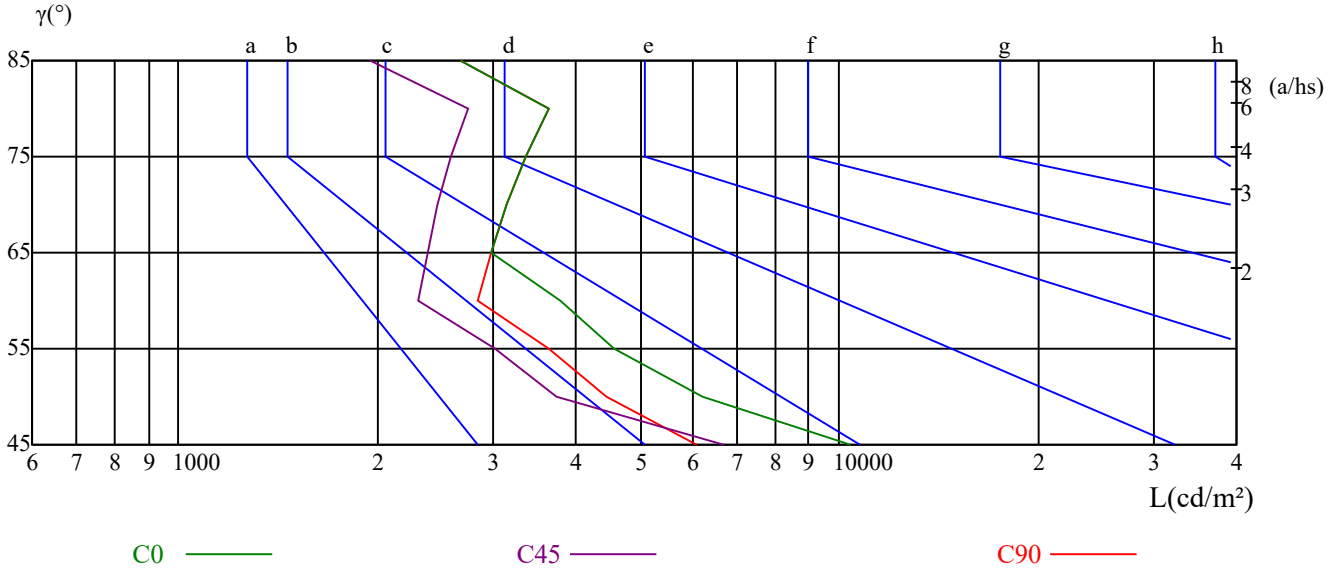
γ	45	50	55	60	65	70	75	80	85
C0	10427	6204	4557	3782	2970	3141	3361	3644	2675
C45	6686	3732	3023	2313	2380	2470	2588	2740	1956
C90	6082	4431	3646	2836	2970	3141	3361	3644	2675

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7385	7385	7385	12059	12059	12059	23875	23875	23875

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: GMS1980
Temperature(°C): 25.0

Date: 2024/12/31
Humidity(%): 60.0%

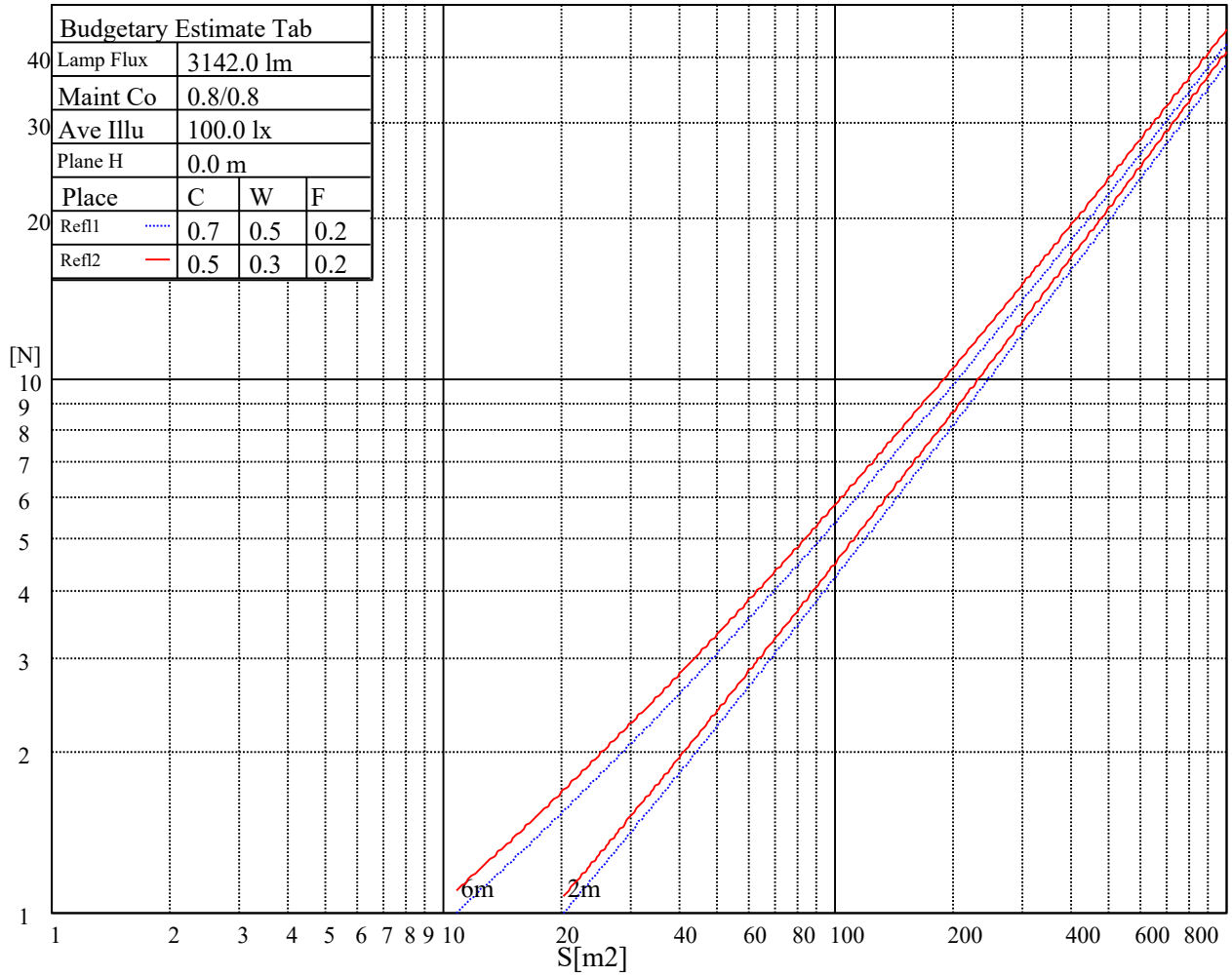
Operator: NT07
Distance(m): 7.65

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	15.68	16.63	16.05	16.94	17.26	15.22	16.16	15.58	16.48	16.79
	3H	15.67	16.51	16.05	16.85	17.19	15.21	16.06	15.60	16.39	16.74
	4H	15.72	16.50	16.12	16.85	17.22	15.28	16.06	15.69	16.42	16.79
	6H	15.86	16.57	16.27	16.94	17.34	15.45	16.16	15.87	16.54	16.94
	8H	15.93	16.61	16.35	16.99	17.40	15.54	16.22	15.96	16.60	17.01
	12H	16.02	16.66	16.45	17.06	17.48	15.65	16.30	16.08	16.69	17.11
4H	2H	15.42	16.20	15.83	16.56	16.93	14.97	15.75	15.37	16.10	16.47
	3H	15.46	16.11	15.88	16.51	16.93	15.03	15.68	15.45	16.08	16.49
	4H	15.63	16.19	16.07	16.62	17.07	15.22	15.79	15.66	16.22	16.66
	6H	15.85	16.35	16.32	16.80	17.26	15.49	15.99	15.96	16.44	16.89
	8H	16.03	16.49	16.51	16.95	17.42	15.69	16.15	16.18	16.61	17.09
	12H	16.24	16.67	16.74	17.12	17.65	15.94	16.36	16.43	16.82	17.34
8H	4H	15.56	16.02	16.05	16.48	16.96	15.17	15.64	15.66	16.10	16.57
	6H	15.90	16.28	16.40	16.76	17.27	15.56	15.94	16.07	16.42	16.93
	8H	16.22	16.54	16.75	17.06	17.56	15.92	16.24	16.45	16.76	17.26
	12H	16.57	16.81	17.11	17.33	17.85	16.30	16.55	16.85	17.06	17.59
12H	4H	15.54	15.97	16.03	16.42	16.94	15.16	15.59	15.65	16.04	16.56
	6H	15.96	16.27	16.49	16.80	17.30	15.63	15.95	16.17	16.47	16.97
	8H	16.29	16.53	16.83	17.05	17.57	16.00	16.24	16.54	16.76	17.28

Variation with the observer position at spacings:		
S = 1.0H	5.7/-5.5	5.7/-5.5
S = 1.5H	7.9/-4.3	7.9/-4.4
S = 2.0H	9.4/-3.6	9.4/-3.7
Standard tables:	BK2	BK2
Uncorrected UGR	-2.3	-1.9

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

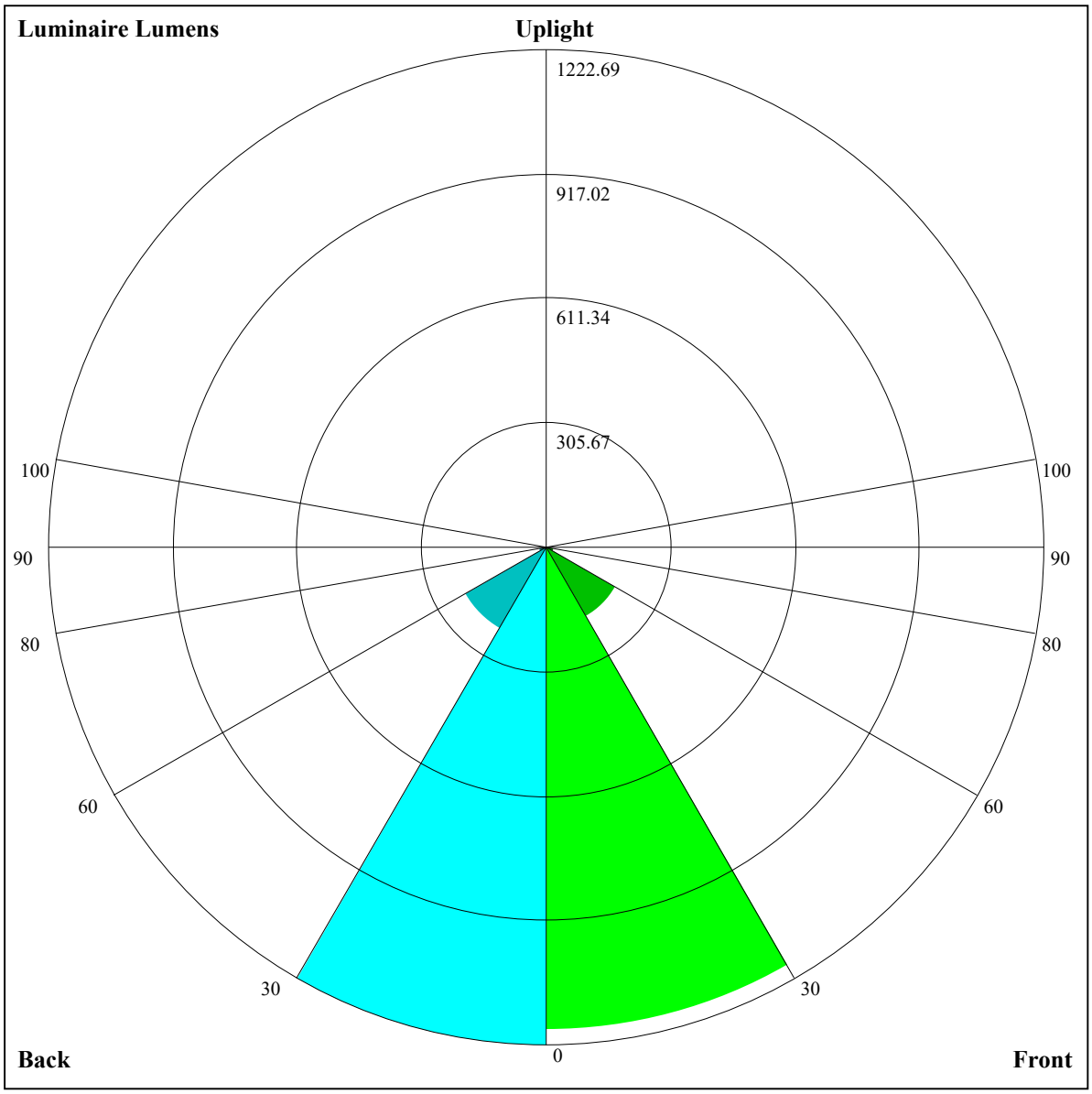
Budgetary Estimate Table



Equipment: GMS1980 Date: 2024/12/31 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

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	1.02	1.00	0.98	1.00	0.98	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.84	0.83	0.81
3	0.90	0.86	0.82	0.89	0.85	0.82	0.87	0.83	0.81	0.84	0.82	0.79	0.82	0.80	0.78	0.77
4	0.85	0.80	0.77	0.84	0.80	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.72
5	0.80	0.75	0.72	0.80	0.75	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.68
6	0.76	0.71	0.67	0.75	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.65
7	0.72	0.67	0.64	0.72	0.67	0.63	0.71	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.62	0.61
8	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.58
9	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.63	0.59	0.56	0.55
10	0.62	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.53



Luminaire Lumens:
FL=1183.84,FM=194.79,FH=17.41,FVH=7.56
BL=1222.69,BM=229.95,BH=18.05,BVH=7.67
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	4692.39	4680.10	4656.11	4622.75	4581.20	4536.14	4471.18	4410.31	4341.26
45.0	4673.08	4692.98	4697.07	4684.78	4644.99	4608.71	4558.38	4509.80	4453.62
90.0	4700.59	4706.44	4678.35	4654.35	4616.90	4541.40	4485.22	4428.46	4357.64
135.0	4686.54	4694.73	4696.49	4680.10	4646.75	4614.56	4570.08	4516.83	4447.77
180.0	4692.39	4684.20	4669.57	4650.84	4622.75	4575.35	4525.02	4461.23	4383.98
225.0	4673.08	4642.65	4608.12	4567.74	4518.00	4441.92	4368.76	4299.71	4219.53
270.0	4700.59	4682.44	4644.40	4598.17	4534.38	4474.10	4409.73	4340.09	4253.47
315.0	4686.54	4659.62	4618.65	4573.59	4505.12	4439.58	4369.35	4277.47	4199.63
360.0	4692.39	4680.10	4656.11	4622.75	4581.20	4536.14	4471.18	4410.31	4341.26

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4245.87	4165.10	4070.88	3967.88	3828.60	3708.63	3576.37	3442.35	3283.76
45.0	4374.03	4302.05	4224.80	4141.11	4023.48	3919.31	3806.36	3675.86	3506.73
90.0	4269.27	4199.63	4118.87	4020.55	3891.22	3782.37	3655.37	3489.17	3357.49
135.0	4386.91	4318.43	4224.21	4143.45	4028.75	3921.65	3806.95	3690.49	3530.72
180.0	4324.87	4265.18	4172.71	4084.34	3991.29	3870.74	3765.98	3648.94	3503.22
225.0	4152.82	4071.47	3962.03	3869.57	3773.59	3639.57	3527.21	3408.99	3253.91
270.0	4181.49	4100.73	4018.80	3900.00	3800.51	3690.49	3553.54	3420.11	3286.68
315.0	4119.46	4014.70	3917.55	3813.97	3699.27	3549.45	3425.38	3296.05	3171.98
360.0	4245.87	4165.10	4070.88	3967.88	3828.60	3708.63	3576.37	3442.35	3283.76

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3154.42	3022.75	2855.96	2719.01	2585.58	2421.13	2292.38	2167.15	1983.39
45.0	3374.47	3240.45	3066.64	2921.50	2773.44	2587.92	2444.54	2264.29	2126.18
90.0	3188.95	3044.98	2896.92	2746.52	2558.66	2413.53	2269.56	2130.28	1996.26
135.0	3395.53	3266.78	3136.28	2973.00	2844.84	2717.26	2585.58	2428.16	2301.16
180.0	3380.90	3253.32	3125.75	2964.81	2843.67	2727.21	2614.26	2466.20	2346.23
225.0	3128.09	2999.92	2867.66	2744.18	2597.87	2480.24	2357.34	2199.33	2054.78
270.0	3133.35	3008.12	2877.02	2717.26	2593.19	2467.95	2315.79	2188.80	2064.15
315.0	3009.87	2880.54	2720.77	2593.78	2470.88	2318.72	2198.16	2068.83	1876.29
360.0	3154.42	3022.75	2855.96	2719.01	2585.58	2421.13	2292.38	2167.15	1983.39

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1813.09	1637.52	1148.56	1148.56	1062.07	892.35	730.59	544.03	414.28
45.0	1978.70	1808.99	1586.02	1406.35	1227.86	1051.71	838.69	678.92	530.27
90.0	1796.11	1619.38	1136.16	1136.16	1048.96	837.75	678.45	528.81	363.31
135.0	2147.25	1999.77	1834.15	1621.13	1447.32	1271.17	1054.05	886.09	727.49
180.0	2190.56	2036.64	1861.66	1632.84	1446.73	1263.56	1083.90	870.87	712.86
225.0	1841.76	1656.83	1136.10	1136.10	1045.15	870.29	707.83	525.24	398.01
270.0	1910.23	1741.69	1514.62	1329.10	1148.27	929.40	763.78	612.20	444.83
315.0	1705.40	1387.04	1167.70	1124.51	951.63	788.82	638.42	472.16	359.27
360.0	1813.09	1637.52	1148.56	1148.56	1062.07	892.35	730.59	544.03	414.28

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	313.15	241.17	203.78	169.36	138.29	120.56	103.41	91.82	81.64
45.0	395.09	306.13	306.13	142.15	106.92	88.37	75.38	63.56	56.24
90.0	254.75	178.79	139.28	103.99	83.63	70.58	60.92	51.68	46.00
135.0	580.02	414.40	311.98	311.98	237.48	159.01	131.15	110.78	92.17
180.0	570.65	446.59	331.88	302.62	302.62	190.90	150.99	128.40	107.80
225.0	296.83	229.00	178.55	144.78	116.11	95.10	77.37	66.95	58.70
270.0	329.54	304.96	211.21	142.03	114.29	88.49	74.79	64.49	56.42
315.0	276.52	219.75	183.88	152.10	123.19	106.75	93.46	79.88	70.81
360.0	313.15	241.17	203.78	169.36	138.29	120.56	103.41	91.82	81.64

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	72.92	63.44	57.18	51.73	46.94	41.79	38.33	35.29	32.77
45.0	50.15	43.83	39.74	36.17	33.18	30.14	28.03	26.34	25.05
90.0	41.26	37.34	33.42	30.96	28.38	26.69	25.28	23.82	22.88
135.0	80.47	70.70	60.51	53.84	48.11	42.31	38.27	34.94	32.48
180.0	94.22	82.69	70.64	62.44	55.60	48.52	43.89	39.97	36.64
225.0	50.33	45.06	39.56	36.05	33.12	30.72	28.21	26.51	25.16
270.0	49.80	43.37	39.21	35.76	32.30	30.08	28.15	26.04	24.76
315.0	63.20	56.77	49.98	45.35	41.38	37.86	34.18	31.60	29.55
360.0	72.92	63.44	57.18	51.73	46.94	41.79	38.33	35.29	32.77

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	30.02	28.15	26.16	24.81	23.53	22.30	21.42	20.72	20.13
45.0	23.58	22.53	21.71	20.78	20.13	19.49	19.02	18.61	18.20
90.0	21.95	21.24	20.42	19.90	19.43	19.02	18.55	18.20	17.91
135.0	29.61	27.68	26.10	24.76	23.29	22.36	21.48	20.60	20.01
180.0	33.18	30.90	28.97	27.27	25.57	24.35	23.29	22.12	21.36
225.0	24.05	22.82	22.00	21.30	20.54	20.07	19.61	19.14	19.14
270.0	23.35	22.47	21.71	21.01	20.37	19.84	19.43	19.14	18.90
315.0	27.33	25.81	24.23	23.17	22.24	21.42	20.66	20.19	19.78
360.0	30.02	28.15	26.16	24.81	23.53	22.30	21.42	20.72	20.13

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.43	19.02	18.61	18.20	17.73	17.44	17.09	16.80	16.56
45.0	17.85	17.62	17.44	17.26	16.97	16.80	16.56	16.33	16.09
90.0	17.62	17.38	17.21	16.97	16.80	16.62	16.44	16.27	16.15
135.0	19.31	18.90	18.55	18.32	18.02	17.79	17.56	17.32	17.09
180.0	20.60	20.13	20.07	19.96	19.72	19.49	19.25	18.90	18.32
225.0	19.96	19.90	19.78	19.66	19.49	19.25	19.02	18.55	17.85
270.0	18.90	18.90	18.84	18.79	18.67	18.55	18.32	18.20	17.97
315.0	19.37	19.02	18.73	18.38	18.02	17.67	17.38	17.09	16.85
360.0	19.43	19.02	18.61	18.20	17.73	17.44	17.09	16.80	16.56

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.33	16.04	15.86	15.68	15.45	15.27	15.10	14.92	14.69
45.0	15.98	15.74	15.63	15.45	15.33	15.16	15.04	14.86	14.75
90.0	15.92	15.80	15.68	15.57	15.39	15.22	15.04	14.86	14.69
135.0	16.85	16.68	16.39	16.21	15.98	15.80	15.63	15.39	15.16
180.0	17.85	17.44	17.09	16.68	16.39	16.09	15.92	15.68	15.39
225.0	17.38	17.15	16.85	16.44	16.21	15.86	15.68	15.51	15.22
270.0	17.62	17.21	16.80	16.44	16.15	15.92	15.68	15.45	15.27
315.0	16.62	16.33	16.09	15.92	15.63	15.45	15.22	15.04	14.81
360.0	16.33	16.04	15.86	15.68	15.45	15.27	15.10	14.92	14.69

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.51	14.34	14.16	13.99	13.81	13.52	13.28	13.11	12.99
45.0	14.57	14.40	14.28	14.05	13.93	13.75	13.46	13.28	13.05
90.0	14.57	14.34	14.16	14.05	13.81	13.52	13.34	13.17	13.05
135.0	14.98	14.75	14.57	14.40	14.16	13.93	13.64	13.34	13.23
180.0	15.22	15.04	14.81	14.57	14.34	13.93	13.69	13.40	13.28
225.0	15.10	14.81	14.63	14.46	14.05	13.69	13.46	13.28	13.11
270.0	15.04	14.81	14.51	14.40	14.16	13.81	13.40	13.23	13.05
315.0	14.63	14.46	14.16	14.05	13.81	13.34	13.23	12.99	12.93
360.0	14.51	14.34	14.16	13.99	13.81	13.52	13.28	13.11	12.99

Intensity data(cd)

C/γ(°)	90.0
0.0	12.99
45.0	12.99
90.0	13.05
135.0	13.05
180.0	12.99
225.0	13.05
270.0	12.99
315.0	12.93
360.0	12.99