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

NT

Client: NT
LumCAT: 3-2964-LM
Luminaire: 92.70.411.00
Report No: 20250413-B001
Ballast type: AC
Test No: 20250413-C001
LampCAT: LUMILEDS LUXEON 1208
Lamp flux(lm): 3860.0
Number of Lamps: 1
Length(mm): 95
Phm Type: C

Voltage(V): 35.530
Current(A): 0.895
Power (W): 31.790
PF: 0.000
Width(mm): 95
Height(mm): 50

Photometric Results

Lumens(lm): 3736.38, Efficiency(%): 96.80% , Luminous Efficacy(lm/W): 117.53
Central intensity(cd): 3763.500, Maximum intensity(cd): 3776.822
Angle of maximum intensity: C=315.0 γ=1.0
Beam Angle(50%Imax): [C0/180]Total=61.9
[C90/270]Total=67.8
Field angle(10%Imax): [C0/180]Total=82.4
[C90/270]Total=85.6
Maximum s/h(1/2): C0_180=1.04 C90_270=0.97
Maximum s/h(1/4): C0_180=0.95 C90_270=0.94
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.77%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.498%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3764.965	0.000	0	0.00%	0.00%
1.0	3764.432	3.603	3.603	0.09%	0.10%
2.0	3758.504	10.798	14.4	0.28%	0.39%
3.0	3749.977	17.958	32.358	0.47%	0.87%
4.0	3740.119	25.072	57.43	0.65%	1.54%
5.0	3725.264	32.116	89.546	0.83%	2.40%
6.0	3708.411	39.066	128.611	1.01%	3.44%
7.0	3692.624	45.938	174.55	1.19%	4.67%
8.0	3674.439	52.725	227.274	1.37%	6.08%
9.0	3654.855	59.400	286.674	1.54%	7.67%
10.0	3634.005	65.962	352.636	1.71%	9.44%
11.0	3611.090	72.393	425.029	1.88%	11.38%
12.0	3582.847	78.640	503.669	2.04%	13.48%
13.0	3558.866	84.754	588.423	2.20%	15.75%
14.0	3529.890	90.735	679.159	2.35%	18.18%
15.0	3495.917	96.453	775.612	2.50%	20.76%
16.0	3459.280	101.913	877.525	2.64%	23.49%
17.0	3413.384	107.026	984.551	2.77%	26.35%
18.0	3370.419	111.850	1096.401	2.90%	29.34%
19.0	3308.003	116.191	1212.592	3.01%	32.45%
20.0	3252.715	120.079	1332.672	3.11%	35.67%
21.0	3190.366	123.720	1456.392	3.21%	38.98%
22.0	3119.823	126.806	1583.198	3.29%	42.37%
23.0	3040.021	129.250	1712.448	3.35%	45.83%
24.0	2946.298	130.882	1843.33	3.39%	49.33%
25.0	2843.115	131.639	1974.969	3.41%	52.86%
26.0	2735.469	131.683	2106.652	3.41%	56.38%
27.0	2595.183	130.416	2237.067	3.38%	59.87%
28.0	2462.691	128.055	2365.122	3.32%	63.30%
29.0	2336.660	125.565	2490.687	3.25%	66.66%
30.0	2189.246	122.199	2612.885	3.17%	69.93%
31.0	2055.888	118.136	2731.021	3.06%	73.09%
32.0	1920.332	113.914	2844.935	2.95%	76.14%
33.0	1792.569	109.383	2954.319	2.83%	79.07%
34.0	1667.604	104.715	3059.034	2.71%	81.87%
35.0	1509.093	98.656	3157.69	2.56%	84.51%
36.0	1359.834	91.347	3249.037	2.37%	86.96%
37.0	1173.905	82.636	3331.674	2.14%	89.17%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	1021.176	73.269	3404.943	1.90%	91.13%
39.0	867.042	64.450	3469.393	1.67%	92.85%
40.0	686.262	54.174	3523.566	1.40%	94.30%
41.0	519.364	42.932	3566.498	1.11%	95.45%
42.0	377.899	32.599	3599.097	0.84%	96.33%
43.0	288.612	24.690	3623.787	0.64%	96.99%
44.0	194.089	18.218	3642.005	0.47%	97.47%
45.0	123.573	12.208	3654.213	0.32%	97.80%
46.0	103.123	8.866	3663.079	0.23%	98.04%
47.0	92.818	7.793	3670.872	0.20%	98.25%
48.0	72.281	6.674	3677.546	0.17%	98.43%
49.0	62.842	5.549	3683.095	0.14%	98.57%
50.0	54.729	4.902	3687.997	0.13%	98.71%
51.0	47.808	4.338	3692.335	0.11%	98.82%
52.0	42.485	3.875	3696.21	0.10%	98.92%
53.0	37.736	3.490	3699.699	0.09%	99.02%
54.0	34.012	3.162	3702.862	0.08%	99.10%
55.0	30.009	2.858	3705.72	0.07%	99.18%
56.0	27.231	2.587	3708.306	0.07%	99.25%
57.0	24.567	2.368	3710.674	0.06%	99.31%
58.0	22.095	2.158	3712.832	0.06%	99.37%
59.0	20.370	1.985	3714.818	0.05%	99.42%
60.0	18.711	1.846	3716.664	0.05%	99.47%
61.0	17.459	1.726	3718.39	0.04%	99.52%
62.0	15.947	1.610	3720	0.04%	99.56%
63.0	14.715	1.491	3721.491	0.04%	99.60%
64.0	13.795	1.399	3722.89	0.04%	99.64%
65.0	12.676	1.310	3724.2	0.03%	99.67%
66.0	11.864	1.224	3725.424	0.03%	99.71%
67.0	10.958	1.148	3726.572	0.03%	99.74%
68.0	10.058	1.065	3727.637	0.03%	99.77%
69.0	9.246	0.985	3728.621	0.03%	99.79%
70.0	8.466	0.910	3729.531	0.02%	99.82%
71.0	7.694	0.835	3730.366	0.02%	99.84%
72.0	6.881	0.758	3731.124	0.02%	99.86%
73.0	6.268	0.688	3731.812	0.02%	99.88%
74.0	5.555	0.622	3732.433	0.02%	99.89%
75.0	4.883	0.552	3732.985	0.01%	99.91%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.077	0.476	3733.46	0.01%	99.92%
77.0	3.517	0.405	3733.865	0.01%	99.93%
78.0	2.911	0.344	3734.209	0.01%	99.94%
79.0	2.478	0.290	3734.499	0.01%	99.95%
80.0	2.232	0.254	3734.753	0.01%	99.96%
81.0	2.045	0.231	3734.984	0.01%	99.96%
82.0	1.898	0.214	3735.198	0.01%	99.97%
83.0	1.745	0.198	3735.396	0.01%	99.97%
84.0	1.612	0.183	3735.579	0.00%	99.98%
85.0	1.479	0.169	3735.748	0.00%	99.98%
86.0	1.352	0.155	3735.902	0.00%	99.99%
87.0	1.206	0.140	3736.042	0.00%	99.99%
88.0	1.086	0.126	3736.168	0.00%	99.99%
89.0	0.953	0.112	3736.28	0.00%	100.00%
90.0	0.886	0.101	3736.38	0.00%	100.00%

Zonal flux distribution table

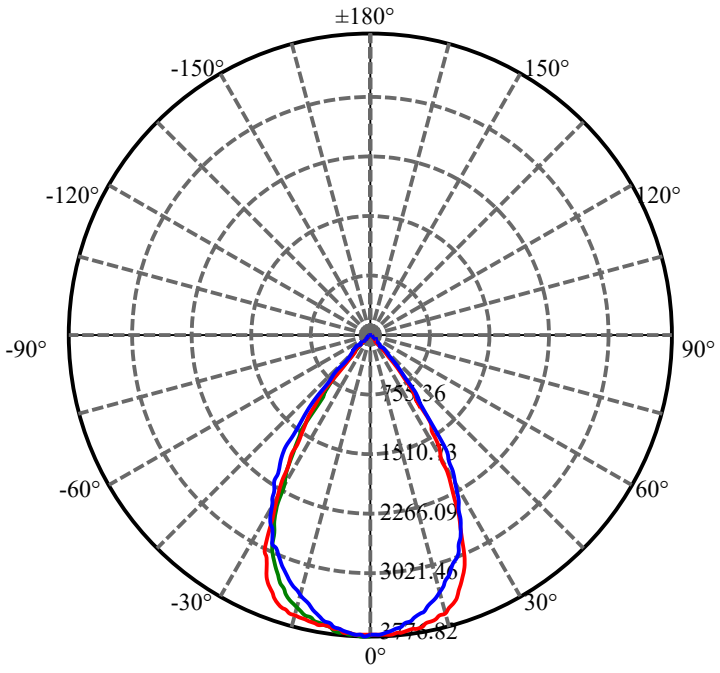
ZONAL LUMEN SUMMARY

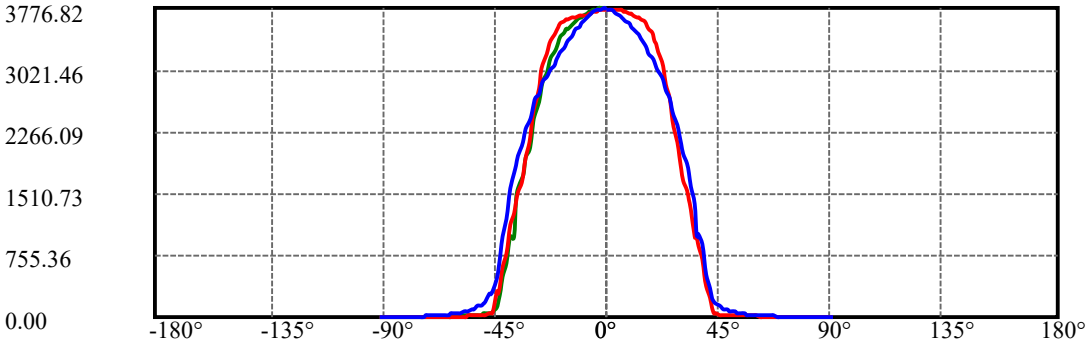
Zone	Lumens	%Lamp	%Fixt
0-30	2612.89	67.69%	69.93%
0-40	3523.57	91.28%	94.30%
0-60	3716.66	96.29%	99.47%
0-90	3736.28	96.79%	100.00%
0-120	3736.28	96.79%	100.00%
0-180	3736.38	96.80%	100.00%
60-90	19.62	0.51%	0.52%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-33.33	2989.10	77.44%	80.00%

ZONAL LUMEN SUMMARY

0-10	352.64
10-20	980.04
20-30	1280.21
30-40	910.68
40-50	164.43
50-60	28.67
60-70	12.87
70-80	5.22
80-90	1.53
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]





C315(Max):

C0/C180:

C90/C270:

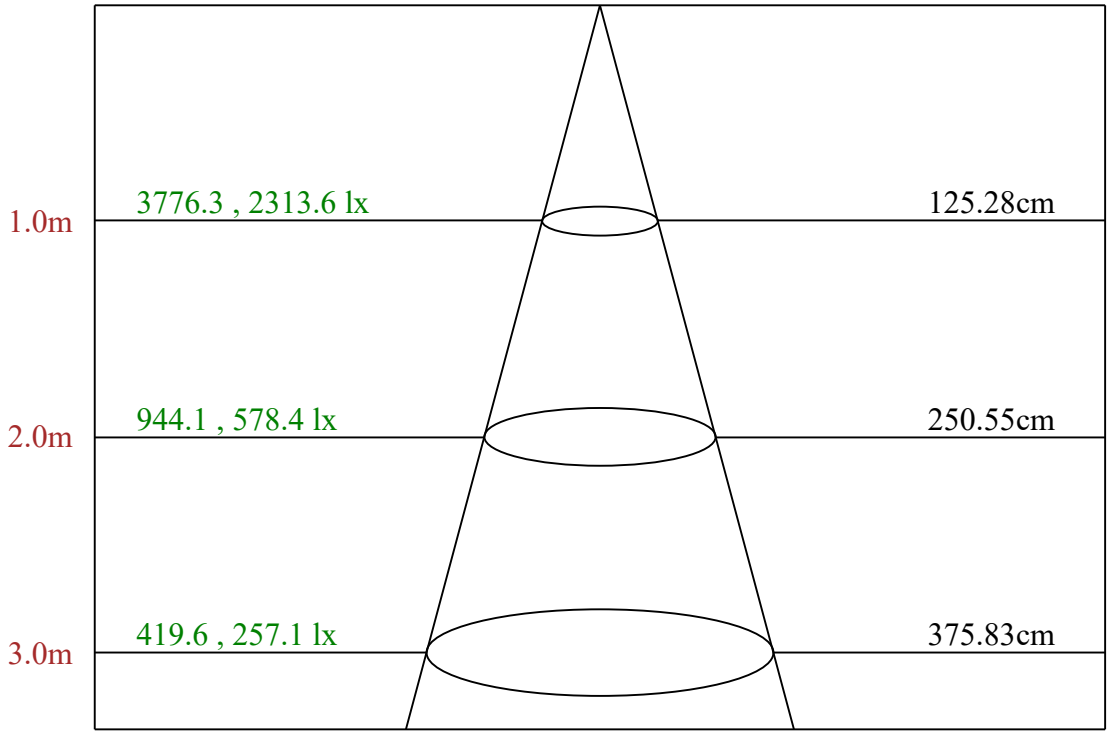
Field angle(10%Imax):C0/180Left:44.4 Right:38.0

:C90/270Left:43.7 Right:41.9

Beam Angle(50%Imax):C0/180Left:34.4 Right:27.5

:C90/270Left:34.8 Right:33.0

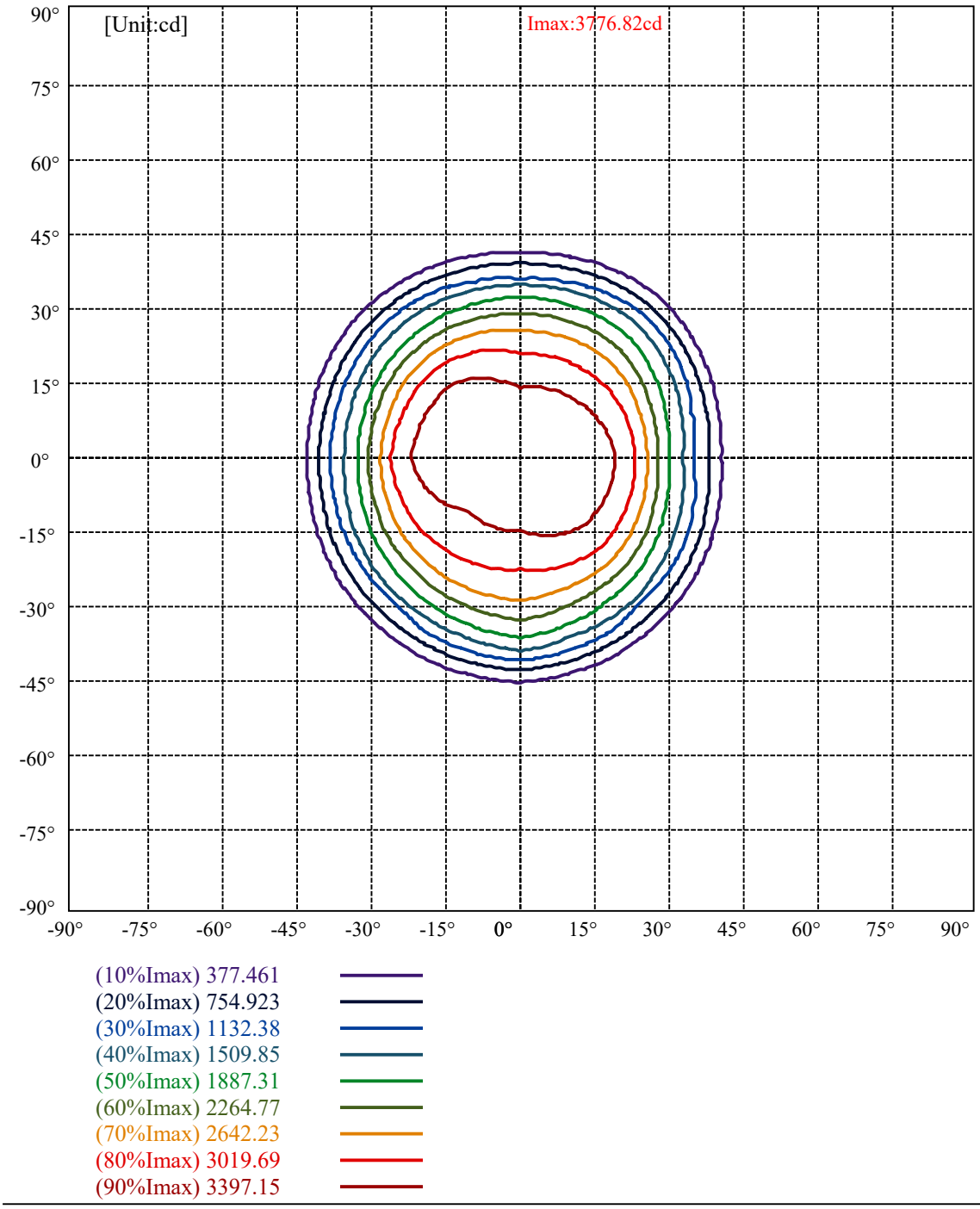
Lux distance Curve



Max , Ave

Beam angle of C315 plane 64.12

ISO-Intensity(V-H)

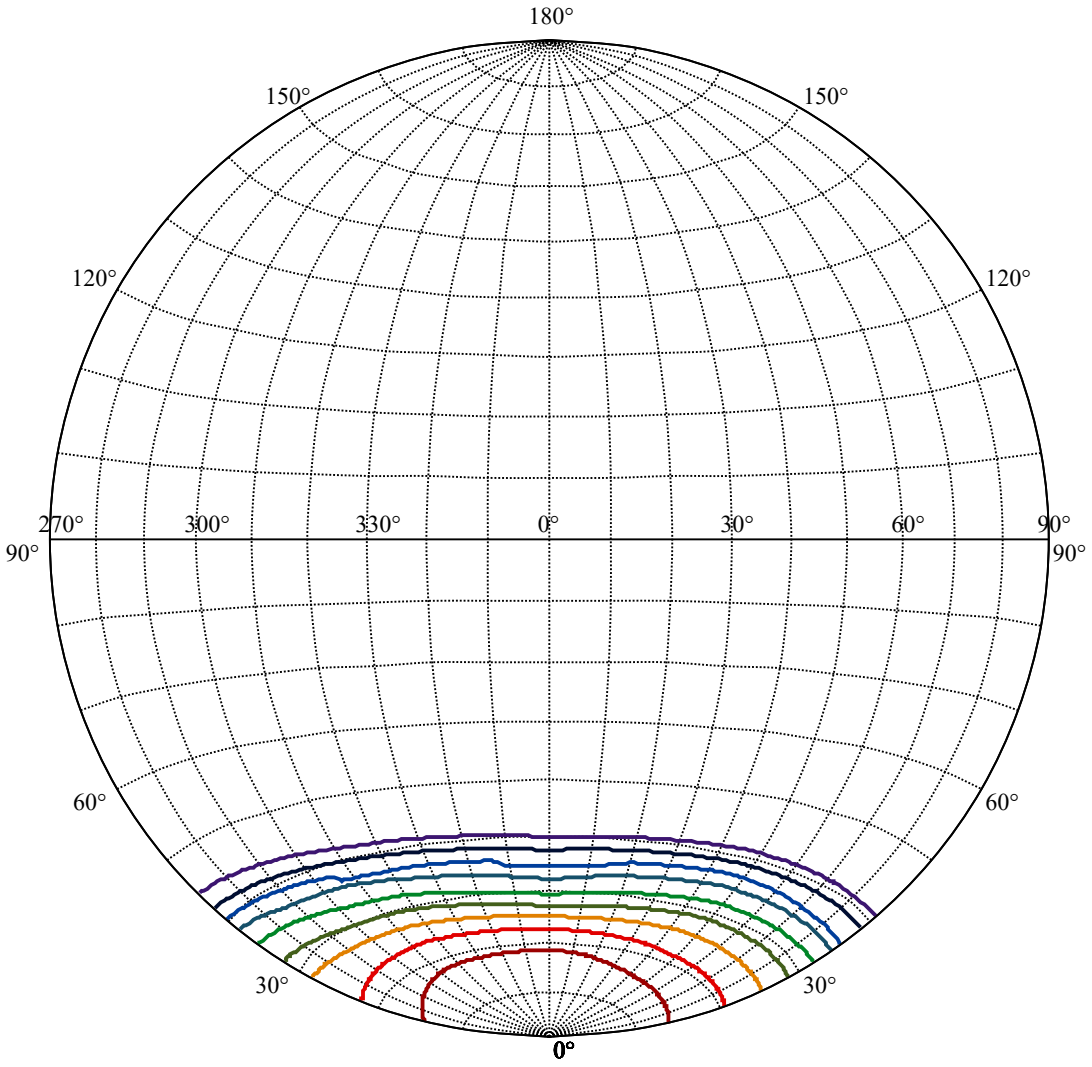


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/5/13
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

ISO candela diagram on circular web



House [Unit:cd] Road

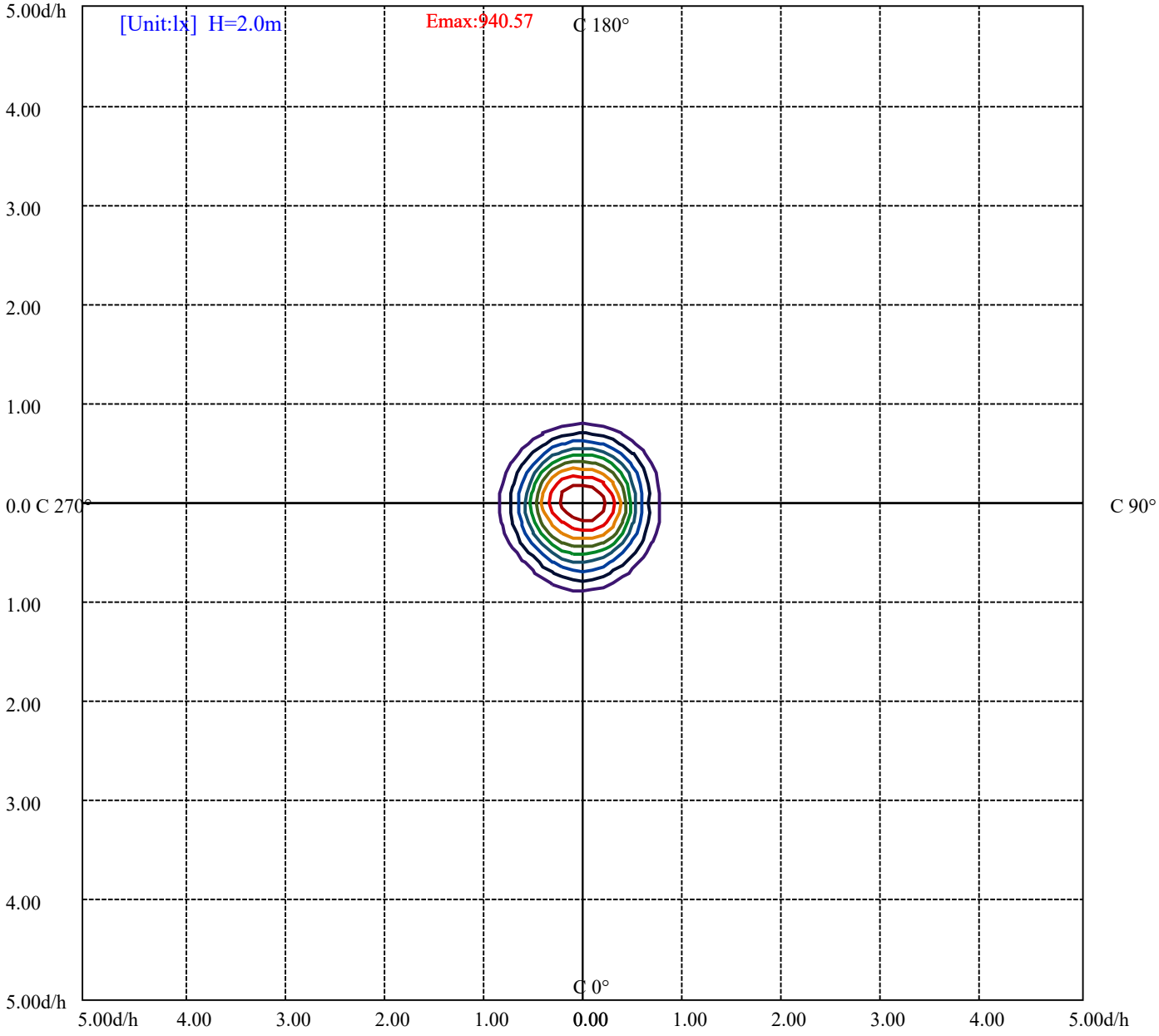
Imax:3776.82

(10%Imax) 377.826
(20%Imax) 755.652
(30%Imax) 1133.48
(40%Imax) 1511.3
(50%Imax) 1889.13
(60%Imax) 2266.96
(70%Imax) 2644.78
(80%Imax) 3022.61
(90%Imax) 3400.44

Equipment: GMS 1800
Temperature(°C): 25.0
Date: 2025/5/13
Humidity(%): 60.0%
Operator: NT
Distance(m): 7.30

NT NT 3-2964-LM

ISO illuminance diagram



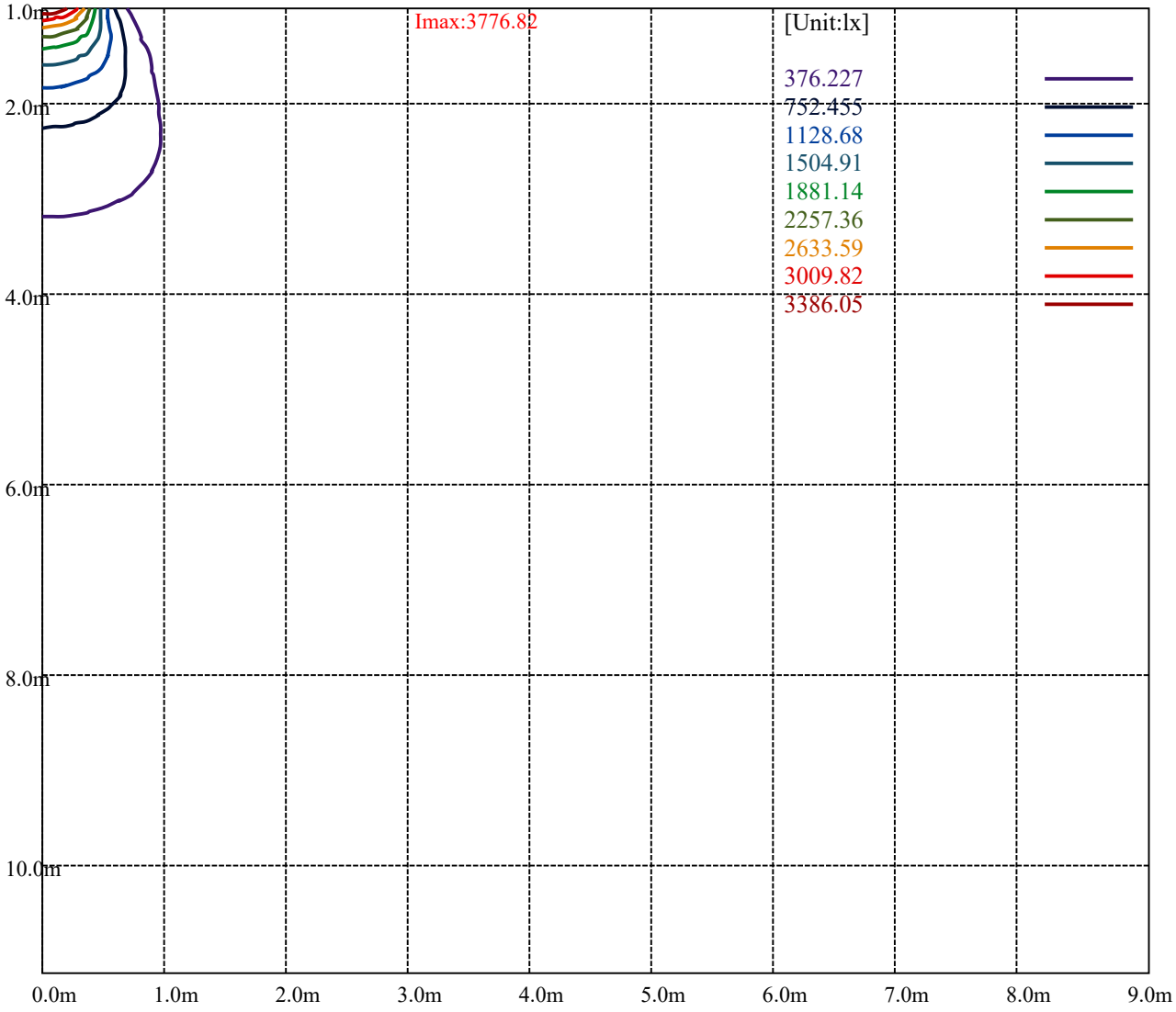
(10%Emax) 94.05675
(20%Emax) 188.1138
(30%Emax) 282.17
(40%Emax) 376.2275
(50%Emax) 470.285
(60%Emax) 564.34
(70%Emax) 658.3975
(80%Emax) 752.455
(90%Emax) 846.5125

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/5/13
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/5/13
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

NT NT 3-2964-LM

Luminance Limitting Curve(no luminous side)

Luminance Table

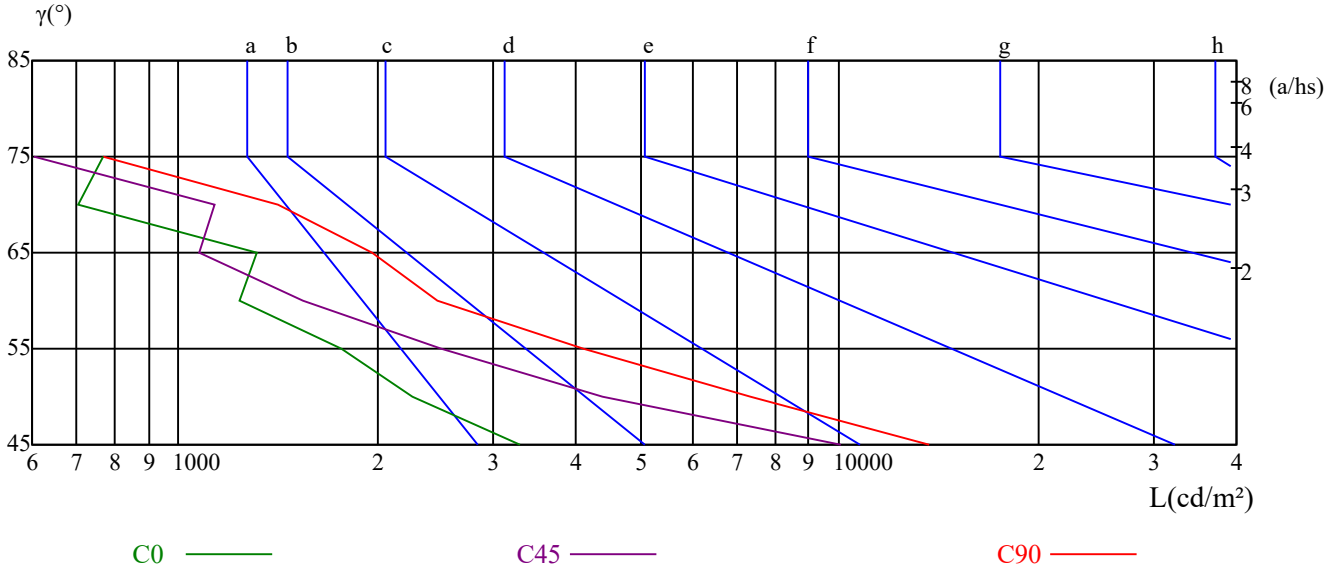
γ	45	50	55	60	65	70	75	80	85
C0	3283	2258	1763	1236	1313	706	770	0	0
C45	10053	4381	2495	1548	1076	1134	604	0	0
C90	13678	7339	4114	2471	1969	1412	770	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2794	5589	3144	2281	3422	2281	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

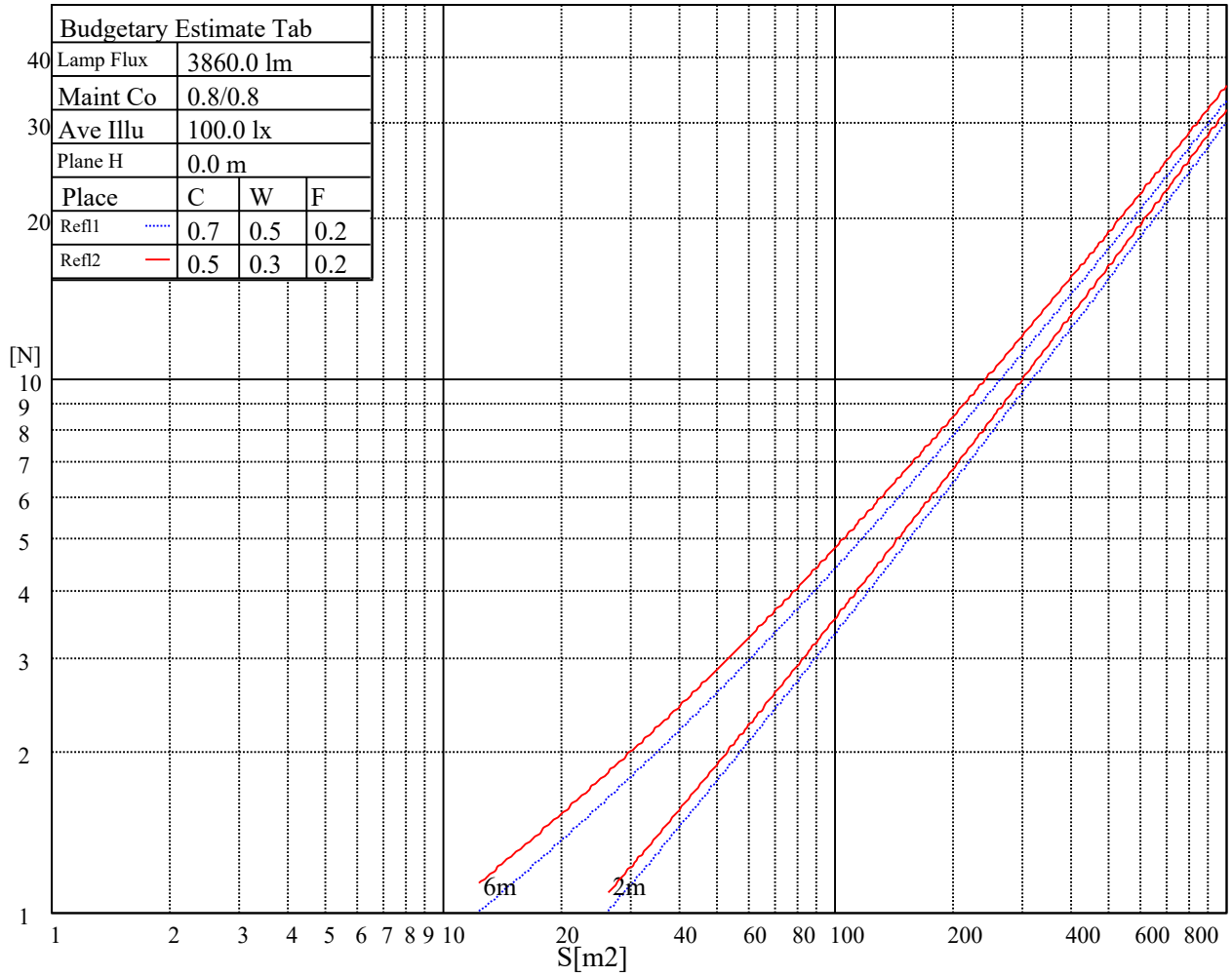


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	18.80	19.75	19.16	20.06	20.38	19.60	20.56	19.97	20.87	21.18
	3H	18.59	19.44	18.98	19.78	20.12	19.40	20.25	19.79	20.59	20.93
	4H	18.49	19.27	18.89	19.63	20.00	19.30	20.08	19.70	20.44	20.80
	6H	18.40	19.11	18.82	19.49	19.89	19.21	19.92	19.63	20.30	20.70
	8H	18.32	19.00	18.75	19.39	19.80	19.13	19.81	19.55	20.20	20.61
	12H	18.25	18.89	18.68	19.29	19.71	19.06	19.70	19.49	20.10	20.52
4H	2H	18.49	19.27	18.89	19.62	19.99	19.29	20.07	19.69	20.43	20.80
	3H	18.25	18.90	18.68	19.30	19.71	19.06	19.71	19.48	20.10	20.52
	4H	18.17	18.73	18.61	19.16	19.61	18.98	19.54	19.42	19.96	20.41
	6H	18.03	18.52	18.50	18.98	19.43	18.83	19.33	19.31	19.78	20.23
	8H	17.97	18.42	18.45	18.88	19.36	18.77	19.23	19.26	19.69	20.16
	12H	17.91	18.33	18.40	18.79	19.31	18.72	19.14	19.21	19.59	20.11
8H	4H	17.97	18.42	18.45	18.88	19.36	18.77	19.23	19.26	19.69	20.16
	6H	17.81	18.18	18.31	18.66	19.17	18.61	18.99	19.12	19.47	19.98
	8H	17.79	18.10	18.32	18.62	19.12	18.59	18.91	19.13	19.43	19.93
	12H	17.73	17.97	18.28	18.49	19.01	18.54	18.78	19.08	19.29	19.82
12H	4H	17.91	18.33	18.40	18.79	19.31	18.72	19.14	19.21	19.59	20.11
	6H	17.79	18.10	18.32	18.62	19.12	18.59	18.90	19.13	19.43	19.93
	8H	17.73	17.97	18.28	18.49	19.01	18.54	18.77	19.08	19.29	19.82

Variation with the observer position at spacings:		
S = 1.0H	5.5/-12.5	5.2/-14.8
S = 1.5H	8.3/-14.2	8.0/-15.4
S = 2.0H	10.3/-15.4	10.0/-15.8
Standard tables:	BK0	BK0
Uncorrected UGR	0.4	-0.4

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

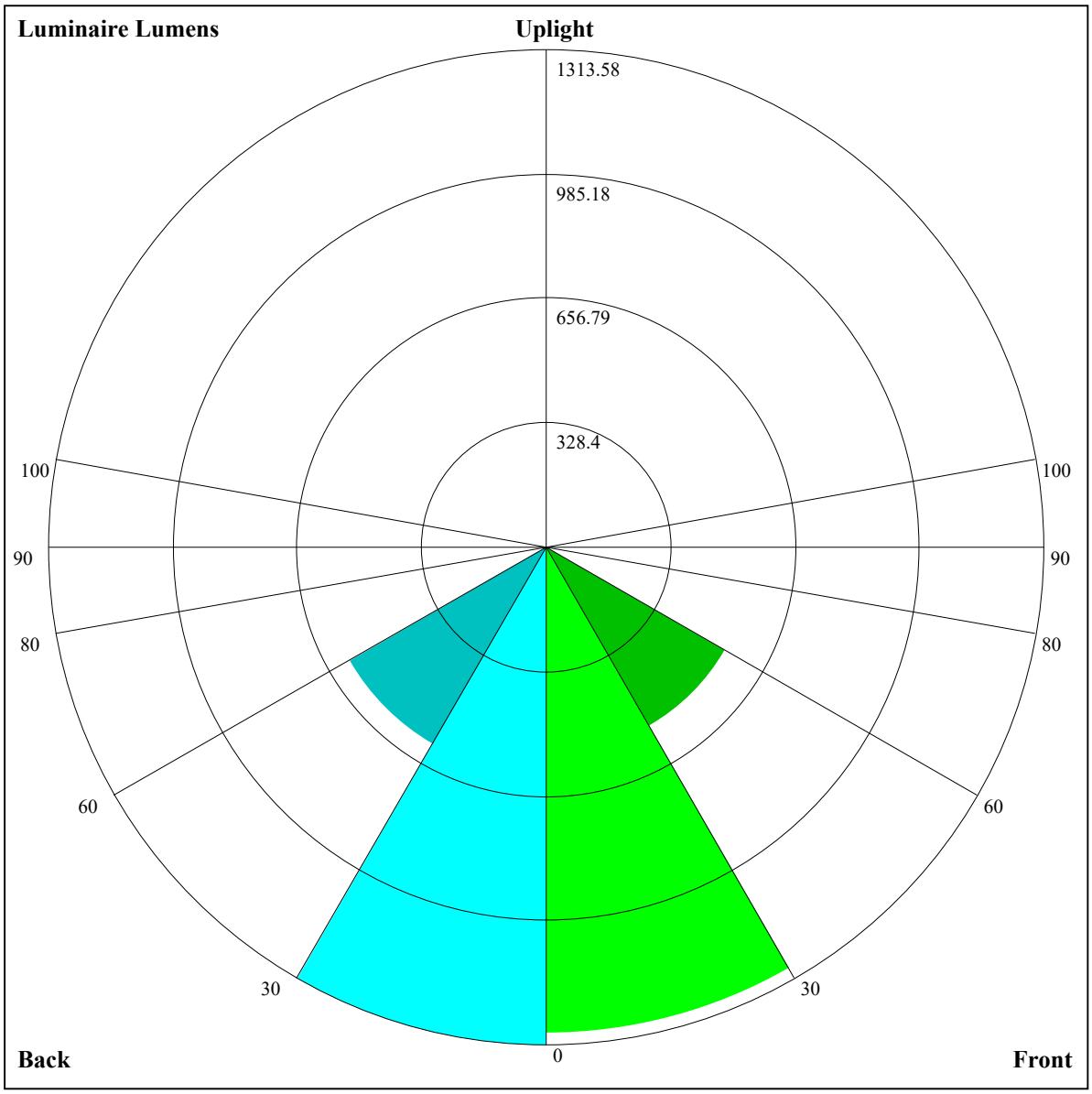
Budgetary Estimate Table



Equipment: GMS 1800 Date: 2025/5/13 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.30

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	1.15	1.15	1.15	1.13	1.13	1.13	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.97
1	1.07	1.05	1.03	1.05	1.03	1.01	1.01	0.99	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.90
2	1.00	0.96	0.92	0.98	0.94	0.91	0.95	0.92	0.89	0.92	0.90	0.87	0.89	0.87	0.86	0.84
3	0.93	0.88	0.84	0.91	0.87	0.83	0.89	0.85	0.82	0.87	0.83	0.81	0.84	0.82	0.80	0.78
4	0.87	0.81	0.77	0.86	0.81	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.74	0.73
5	0.81	0.75	0.71	0.80	0.75	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.67
6	0.76	0.70	0.66	0.75	0.70	0.66	0.74	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.63
7	0.71	0.65	0.61	0.71	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.60	0.67	0.63	0.60	0.59
8	0.67	0.61	0.57	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.55
9	0.63	0.57	0.53	0.63	0.57	0.53	0.62	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.51
10	0.60	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.50	0.58	0.53	0.50	0.57	0.53	0.50	0.48



Luminaire Lumens:
FL=1282.74,FM=545.97,FH=9.97,FVH=0.81
BL=1313.58,BM=602.24,BH=10.1,BVH=0.84
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	3763.50	3763.50	3764.03	3753.37	3755.51	3748.05	3742.18	3733.12	3723.53
45.0	3760.30	3764.57	3762.43	3755.51	3750.71	3737.39	3718.74	3699.02	3678.24
90.0	3759.77	3760.30	3746.98	3734.72	3712.34	3690.49	3664.91	3640.40	3615.35
135.0	3776.29	3772.03	3765.10	3757.10	3746.98	3733.66	3728.33	3722.47	3721.93
180.0	3763.50	3759.77	3753.91	3751.24	3738.45	3732.06	3711.28	3701.68	3692.62
225.0	3760.30	3752.31	3742.72	3727.80	3710.21	3684.63	3662.78	3636.67	3607.89
270.0	3759.77	3766.16	3761.37	3750.18	3747.51	3726.20	3701.68	3683.56	3652.66
315.0	3776.29	3776.82	3771.49	3769.89	3759.24	3749.64	3737.39	3724.07	3703.28
360.0	3763.50	3763.50	3764.03	3753.37	3755.51	3748.05	3742.18	3733.12	3723.53

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3715.01	3701.68	3685.70	3670.24	3651.06	3628.68	3612.69	3562.60	3510.91
45.0	3656.39	3628.68	3594.57	3560.46	3524.76	3487.99	3440.03	3388.34	3327.59
90.0	3584.45	3553.54	3517.83	3477.87	3443.23	3393.13	3335.58	3278.56	3210.35
135.0	3714.47	3708.08	3699.02	3684.63	3676.10	3665.45	3638.27	3613.22	3574.85
180.0	3686.23	3677.70	3676.10	3667.58	3661.18	3653.72	3636.67	3626.54	3603.10
225.0	3579.12	3551.94	3517.30	3482.13	3452.82	3416.05	3398.46	3357.43	3316.93
270.0	3618.55	3584.98	3547.68	3508.24	3465.61	3426.17	3379.28	3338.25	3294.01
315.0	3684.63	3665.45	3650.52	3611.62	3596.17	3567.93	3526.36	3509.31	3469.34
360.0	3715.01	3701.68	3685.70	3670.24	3651.06	3628.68	3612.69	3562.60	3510.91

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3473.07	3375.02	3327.05	3236.99	3130.41	2999.32	2846.91	2677.98	2497.86
45.0	3260.44	3193.83	3126.68	3065.93	2993.46	2909.26	2819.73	2717.95	2628.96
90.0	3168.25	3111.76	3053.14	2998.26	2927.91	2856.50	2765.91	2665.73	2562.34
135.0	3520.50	3457.08	3386.74	3318.00	3234.33	3145.34	3033.43	2914.59	2779.77
180.0	3582.85	3549.81	3501.85	3443.76	3378.21	3300.94	3206.09	3087.78	3007.31
225.0	3289.75	3224.74	3199.16	3152.80	3109.63	3051.01	2986.53	2908.20	2821.33
270.0	3246.59	3193.83	3135.74	3080.32	3027.56	2978.54	2923.12	2888.48	2825.06
315.0	3421.91	3357.96	3291.35	3226.87	3157.06	3079.26	2988.66	2884.21	2761.11
360.0	3473.07	3375.02	3327.05	3236.99	3130.41	2999.32	2846.91	2677.98	2497.86

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	2314.01	2133.36	1960.70	1802.96	1660.68	1537.04	1432.06	1313.76	996.36
45.0	2503.72	2378.49	2247.40	2115.77	1990.54	1861.58	1742.74	1619.11	1466.70
90.0	2454.16	2339.59	2225.02	2108.31	1995.34	1881.30	1760.33	1588.73	1395.29
135.0	2630.55	2476.01	2308.68	2212.76	2055.02	1842.40	1757.13	1626.57	1497.08
180.0	2789.89	2612.97	2501.59	2311.88	2126.96	1950.57	1789.11	1643.09	1516.26
225.0	2718.48	2596.98	2461.62	2322.01	2186.12	2049.16	1915.40	1787.51	1666.54
270.0	2721.15	2677.98	2590.05	2455.23	2395.55	2291.10	2187.18	2081.13	1969.23
315.0	2629.49	2486.14	2398.21	2185.05	2036.90	1949.51	1756.60	1680.93	1565.29
360.0	2314.01	2133.36	1960.70	1802.96	1660.68	1537.04	1432.06	1313.76	996.36

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	996.36	863.94	693.46	526.98	371.59	232.98	122.83	56.59	38.21
45.0	1292.44	1104.33	919.41	736.63	561.30	410.49	275.67	275.67	178.89
90.0	1007.50	1007.50	883.97	692.56	514.41	359.60	240.44	183.26	156.89
135.0	1338.27	1153.36	967.37	781.39	599.14	431.81	338.55	338.55	82.76
180.0	1407.02	1277.52	1114.45	943.39	770.20	599.14	437.14	296.45	296.45
225.0	1550.90	1243.42	1017.41	1017.41	822.85	642.14	478.81	336.69	227.87
270.0	1864.24	1750.20	1582.34	1393.16	1192.26	994.55	797.91	619.92	462.72
315.0	1421.94	990.98	990.98	844.81	658.34	484.19	331.84	201.76	108.92
360.0	996.36	863.94	693.46	526.98	371.59	232.98	122.83	56.59	38.21

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	31.60	27.28	24.03	21.74	20.73	19.56	18.60	17.75	16.47
45.0	109.88	92.46	78.23	66.67	57.29	49.45	43.06	37.73	32.93
90.0	134.40	115.75	100.29	87.66	76.84	67.25	59.37	52.38	46.52
135.0	62.46	47.27	39.75	32.45	27.07	24.57	21.96	19.93	18.17
180.0	78.92	53.40	43.48	35.17	28.88	23.87	20.57	17.91	15.61
225.0	168.82	142.28	120.01	101.73	86.44	73.97	63.31	54.94	48.01
270.0	331.09	287.93	287.93	191.90	168.61	147.67	129.28	114.73	102.26
315.0	71.41	58.62	48.81	40.93	36.88	31.49	26.33	24.51	21.90
360.0	31.60	27.28	24.03	21.74	20.73	19.56	18.60	17.75	16.47

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	15.19	14.28	13.80	13.43	13.00	12.47	11.99	11.35	10.92
45.0	29.15	25.79	22.91	20.73	19.02	17.37	15.88	14.92	13.91
90.0	42.42	37.04	34.05	30.75	27.39	25.31	22.86	20.78	18.97
135.0	16.57	15.19	13.96	12.90	11.99	11.35	10.82	10.18	9.81
180.0	13.64	11.94	10.60	9.54	9.01	8.63	8.47	8.37	8.37
225.0	44.12	36.82	33.89	29.84	25.21	23.77	21.85	19.77	17.69
270.0	91.23	81.11	72.21	64.11	56.91	50.63	45.08	42.21	36.40
315.0	19.77	17.91	16.41	15.24	14.23	13.43	12.74	12.10	11.51
360.0	15.19	14.28	13.80	13.43	13.00	12.47	11.99	11.35	10.92

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.34	9.75	9.27	8.79	8.26	7.73	7.14	6.61	6.13
45.0	12.84	12.04	11.46	10.55	9.97	9.27	8.58	8.05	7.30
90.0	17.37	15.88	14.39	13.06	11.83	10.55	9.43	8.37	7.46
135.0	9.38	8.85	8.42	8.26	7.57	7.09	6.82	6.08	5.76
180.0	8.42	8.42	8.42	8.37	8.21	7.83	7.30	7.09	6.61
225.0	15.93	14.49	13.54	12.31	11.40	10.28	9.81	8.95	7.94
270.0	32.45	30.48	26.01	24.30	21.74	19.34	17.32	15.40	13.75
315.0	10.98	10.44	9.91	9.27	8.69	8.37	7.57	7.19	6.61
360.0	10.34	9.75	9.27	8.79	8.26	7.73	7.14	6.61	6.13

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.54	5.06	4.48	3.62	2.98	2.61	2.13	2.08	1.92
45.0	6.55	5.97	5.33	4.26	3.73	3.30	2.45	2.18	2.03
90.0	6.66	5.70	4.80	4.26	2.93	2.40	2.24	1.97	1.87
135.0	5.38	5.01	4.69	4.26	3.62	3.14	2.61	2.29	2.13
180.0	6.08	5.76	5.33	4.85	4.32	3.78	3.14	2.50	2.24
225.0	7.14	6.61	5.81	5.44	4.21	3.57	3.09	2.61	2.45
270.0	12.04	10.66	9.17	7.99	6.98	6.13	5.01	4.00	3.14
315.0	5.65	5.38	4.85	4.37	3.84	3.20	2.61	2.18	2.08
360.0	5.54	5.06	4.48	3.62	2.98	2.61	2.13	2.08	1.92

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	1.76	1.65	1.60	1.44	1.39	1.23	1.12	1.01	0.85
45.0	1.92	1.76	1.71	1.60	1.44	1.44	1.23	1.07	0.96
90.0	1.71	1.60	1.49	1.44	1.28	1.17	1.07	0.96	0.85
135.0	2.03	1.92	1.71	1.60	1.49	1.33	1.17	1.07	0.96
180.0	2.08	1.87	1.71	1.55	1.44	1.28	1.17	1.12	0.96
225.0	2.24	2.13	1.92	1.81	1.60	1.49	1.28	1.12	0.96
270.0	2.77	2.45	2.18	1.92	1.76	1.60	1.44	1.28	1.12
315.0	1.87	1.81	1.65	1.55	1.44	1.28	1.17	1.07	0.96
360.0	1.76	1.65	1.60	1.44	1.39	1.23	1.12	1.01	0.85

Intensity data(cd)

C/γ(°)	90.0
0.0	0.85
45.0	1.01
90.0	0.85
135.0	0.75
180.0	0.85
225.0	0.85
270.0	1.01
315.0	0.91
360.0	0.85