NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86 750 3771111
Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

Client:
LumCAT: 2-2521-L
Luminaire: 92.70.412.00
Report No: 2024812-B014
Ballast type: AC

Test No: 2024812-C014	Voltage(V): 36.620
LampCAT: P2141-036-1206-P3090-1	Current(A): 0.695
Lamp flux(lm): 3141.0	Power (W): 25.430
Number of Lamps: 1	PF: 0.000
Length(mm): 40	Width(mm): 280
Phm Type: C	Height(mm): 25

Photometric Results

Lumens(lm): 2825.39, Efficiency(%): 89.95% , Luminous Efficacy(lm/W): 111.10
Central intensity(cd): 4742.728, Maximum intensity(cd): 4742.728
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=49.0
[C90/270]Total=49.0
Field angle(10%Imax): [C0/180]Total=68.8
[C90/270]Total=68.8
Maximum s/h(1/2): C0_180=0.76 C90_270=0.76
Maximum s/h(1/4): C0_180=0.75 C90_270=0.75
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.95%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.090%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4742.728	0.000	0	0.00%	0.00%
1.0	4726.847	4.531	4.531	0.14%	0.16%
2.0	4694.120	13.522	18.053	0.43%	0.64%
3.0	4638.673	22.321	40.374	0.71%	1.43%
4.0	4584.488	30.873	71.247	0.98%	2.52%
5.0	4511.150	39.129	110.376	1.25%	3.91%
6.0	4427.642	46.976	157.351	1.50%	5.57%
7.0	4346.925	54.464	211.815	1.73%	7.50%
8.0	4262.385	61.615	273.43	1.96%	9.68%
9.0	4174.001	68.372	341.803	2.18%	12.10%
10.0	4085.269	74.743	416.546	2.38%	14.74%
11.0	3996.682	80.755	497.301	2.57%	17.60%
12.0	3901.977	86.344	583.645	2.75%	20.66%
13.0	3802.030	91.427	675.072	2.91%	23.89%
14.0	3694.073	95.949	771.021	3.05%	27.29%
15.0	3594.690	100.063	871.085	3.19%	30.83%
16.0	3495.025	103.884	974.969	3.31%	34.51%
17.0	3370.498	106.915	1081.884	3.40%	38.29%
18.0	3264.210	109.392	1191.276	3.48%	42.16%
19.0	3147.850	111.557	1302.832	3.55%	46.11%
20.0	3021.923	112.924	1415.756	3.60%	50.11%
21.0	2894.479	113.607	1529.363	3.62%	54.13%
22.0	2751.627	113.461	1642.824	3.61%	58.14%
23.0	2611.226	112.527	1755.351	3.58%	62.13%
24.0	2445.687	110.562	1865.913	3.52%	66.04%
25.0	2301.856	107.949	1973.862	3.44%	69.86%
26.0	2110.687	104.159	2078.021	3.32%	73.55%
27.0	1909.353	98.351	2176.372	3.13%	77.03%
28.0	1690.167	91.132	2267.504	2.90%	80.25%
29.0	1476.895	82.859	2350.363	2.64%	83.19%
30.0	1263.491	73.990	2424.353	2.36%	85.81%
31.0	1040.508	64.117	2488.47	2.04%	88.08%
32.0	888.306	55.258	2543.728	1.76%	90.03%
33.0	705.783	46.962	2590.691	1.50%	91.69%
34.0	534.784	37.543	2628.234	1.20%	93.02%
35.0	395.204	28.882	2657.116	0.92%	94.04%
36.0	311.492	22.501	2679.617	0.72%	94.84%
37.0	233.154	17.763	2697.381	0.57%	95.47%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	184.645	13.946	2711.326	0.44%	95.96%
39.0	145.973	11.285	2722.611	0.36%	96.36%
40.0	112.076	9.000	2731.611	0.29%	96.68%
41.0	95.046	7.376	2738.987	0.23%	96.94%
42.0	81.781	6.424	2745.411	0.20%	97.17%
43.0	71.728	5.686	2751.097	0.18%	97.37%
44.0	62.037	5.049	2756.146	0.16%	97.55%
45.0	55.690	4.524	2760.67	0.14%	97.71%
46.0	49.803	4.126	2764.796	0.13%	97.86%
47.0	44.724	3.760	2768.556	0.12%	97.99%
48.0	40.769	3.456	2772.012	0.11%	98.11%
49.0	37.241	3.203	2775.215	0.10%	98.22%
50.0	34.179	2.978	2778.193	0.09%	98.33%
51.0	31.675	2.786	2780.979	0.09%	98.43%
52.0	29.120	2.609	2783.588	0.08%	98.52%
53.0	26.938	2.439	2786.026	0.08%	98.61%
54.0	25.164	2.296	2788.323	0.07%	98.69%
55.0	23.377	2.167	2790.49	0.07%	98.76%
56.0	21.767	2.040	2792.53	0.06%	98.84%
57.0	20.506	1.933	2794.462	0.06%	98.91%
58.0	19.172	1.835	2796.297	0.06%	98.97%
59.0	17.917	1.734	2798.031	0.06%	99.03%
60.0	16.859	1.643	2799.674	0.05%	99.09%
61.0	16.104	1.573	2801.247	0.05%	99.15%
62.0	15.598	1.528	2802.775	0.05%	99.20%
63.0	15.532	1.514	2804.289	0.05%	99.25%
64.0	15.237	1.510	2805.799	0.05%	99.31%
65.0	14.763	1.485	2807.283	0.05%	99.36%
66.0	14.231	1.447	2808.73	0.05%	99.41%
67.0	13.666	1.403	2810.133	0.04%	99.46%
68.0	12.963	1.349	2811.482	0.04%	99.51%
69.0	12.372	1.292	2812.774	0.04%	99.55%
70.0	11.800	1.241	2814.016	0.04%	99.60%
71.0	11.117	1.184	2815.2	0.04%	99.64%
72.0	10.322	1.115	2816.315	0.04%	99.68%
73.0	9.402	1.031	2817.346	0.03%	99.72%
74.0	8.279	0.930	2818.276	0.03%	99.75%
75.0	7.405	0.829	2819.105	0.03%	99.78%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.761	0.752	2819.857	0.02%	99.80%
77.0	6.130	0.687	2820.544	0.02%	99.83%
78.0	5.703	0.633	2821.177	0.02%	99.85%
79.0	5.158	0.584	2821.761	0.02%	99.87%
80.0	4.711	0.532	2822.293	0.02%	99.89%
81.0	4.304	0.487	2822.78	0.02%	99.91%
82.0	3.876	0.444	2823.224	0.01%	99.92%
83.0	3.443	0.398	2823.622	0.01%	99.94%
84.0	3.068	0.355	2823.977	0.01%	99.95%
85.0	2.707	0.315	2824.292	0.01%	99.96%
86.0	2.378	0.278	2824.57	0.01%	99.97%
87.0	2.089	0.245	2824.814	0.01%	99.98%
88.0	1.827	0.215	2825.029	0.01%	99.99%
89.0	1.636	0.190	2825.218	0.01%	99.99%
90.0	1.544	0.174	2825.393	0.01%	100.00%

Zonal flux distribution table

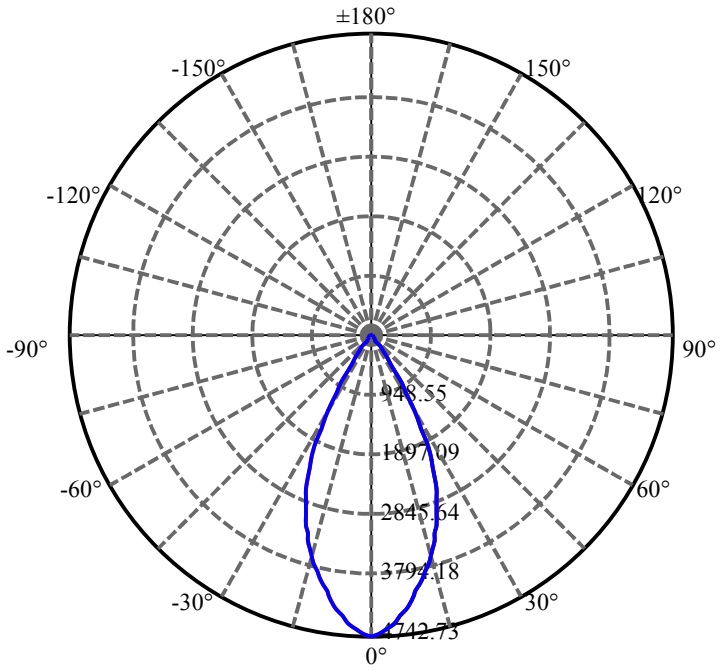
ZONAL LUMEN SUMMARY

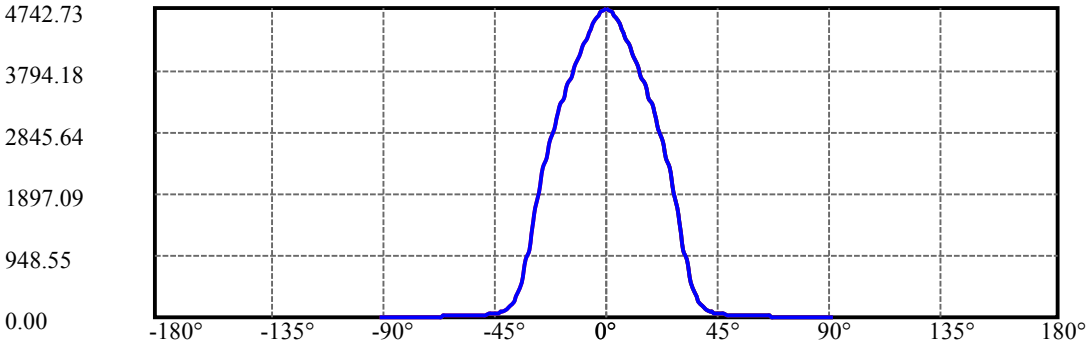
Zone	Lumens	%Lamp	%Fixt
0-30	2424.35	77.18%	85.81%
0-40	2731.61	86.97%	96.68%
0-60	2799.67	89.13%	99.09%
0-90	2825.22	89.95%	99.99%
0-120	2825.22	89.95%	99.99%
0-180	2825.39	89.95%	100.00%
60-90	25.54	0.81%	0.90%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.92	2260.31	71.96%	80.00%

ZONAL LUMEN SUMMARY

0-10	416.55
10-20	999.21
20-30	1008.60
30-40	307.26
40-50	46.58
50-60	21.48
60-70	14.34
70-80	8.28
80-90	2.93
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):

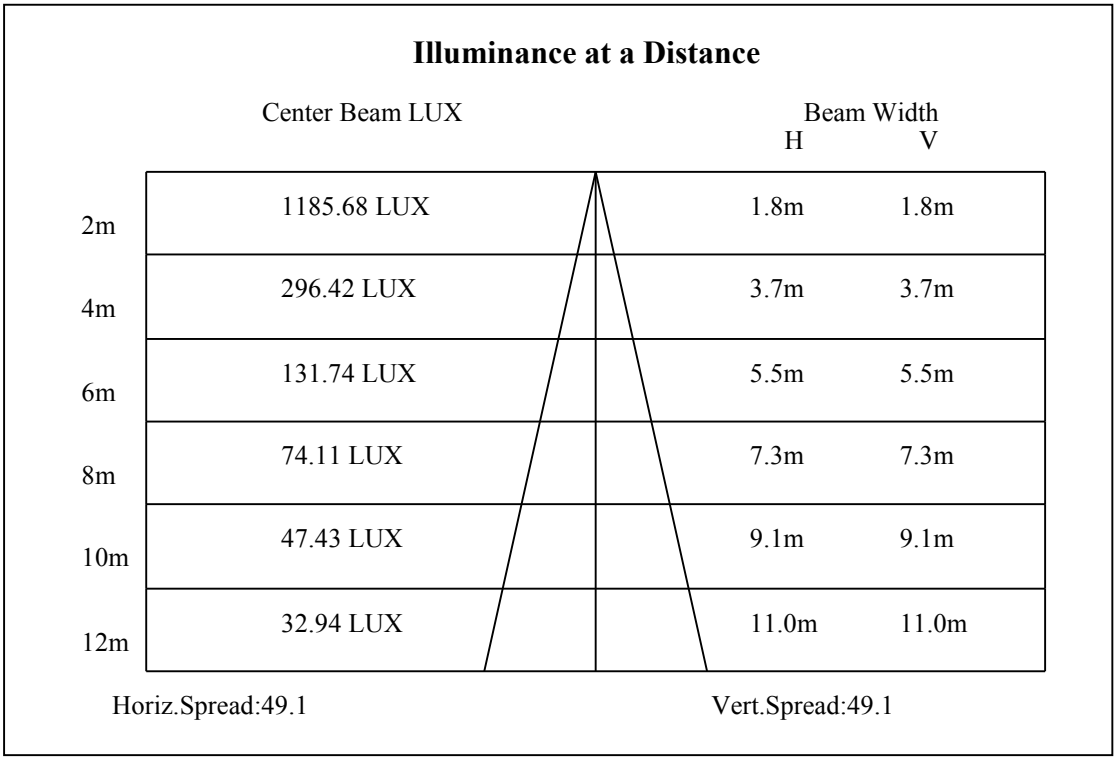
C0/C180:

C90/C270:

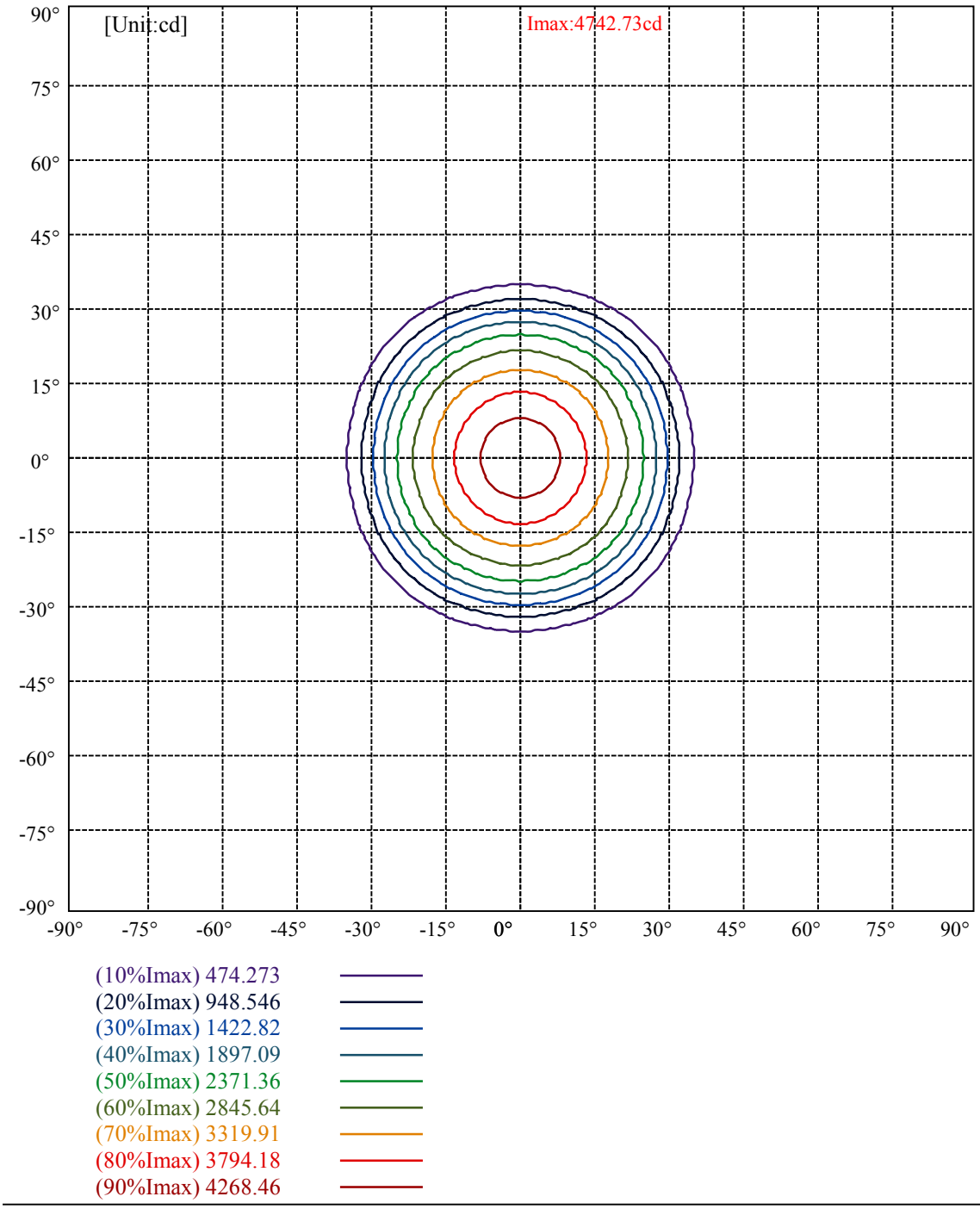
Field angle(10%Imax):C0/180Left:34.4 Right:34.4
:C90/270Left:34.4 Right:34.4

Beam Angle(50%Imax):C0/180Left:24.5 Right:24.5
:C90/270Left:24.5 Right:24.5

Lux distance Curve



ISO-Intensity(V-H)

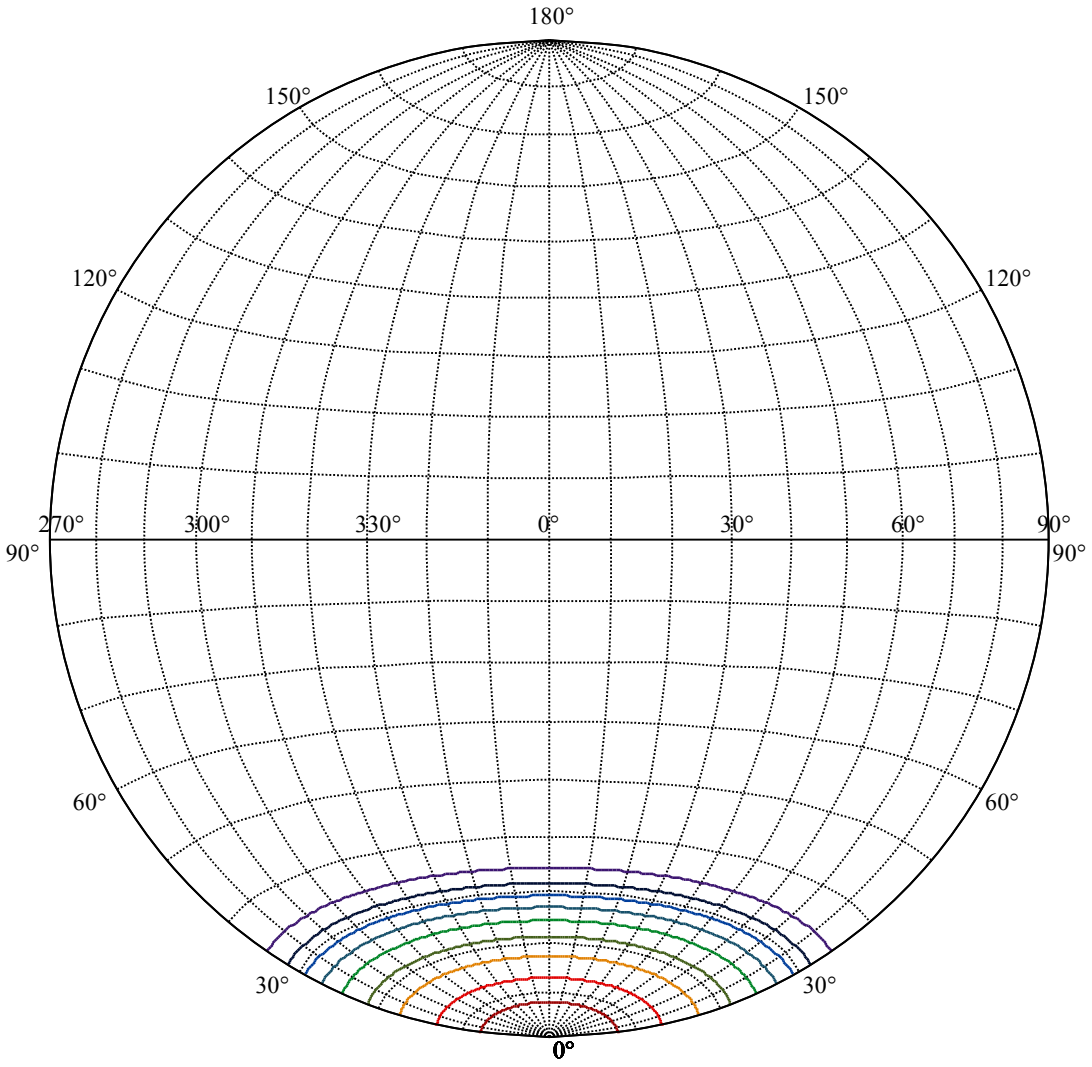


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/12
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:4742.73

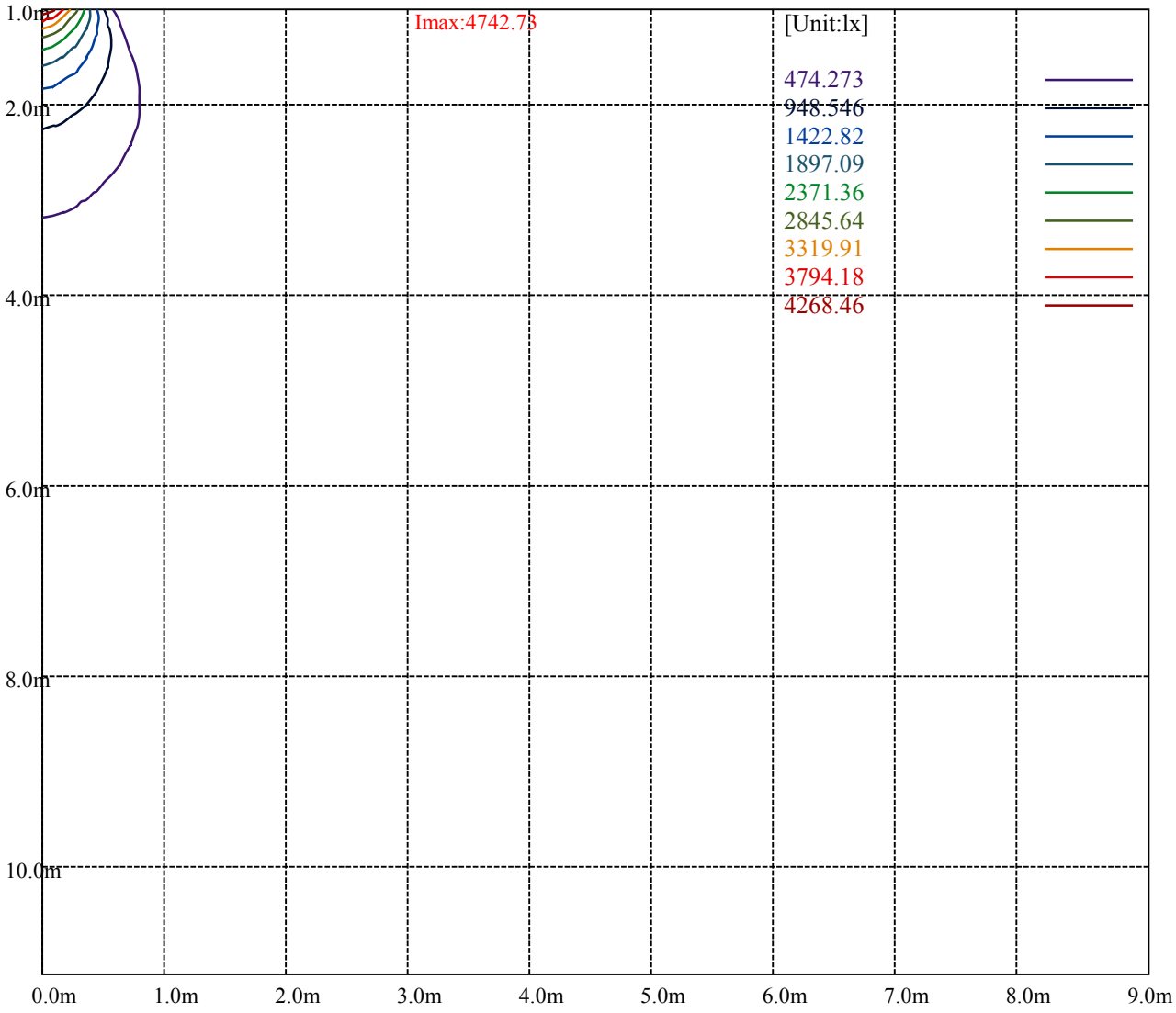
(10%Imax) 474.273
(20%Imax) 948.546
(30%Imax) 1422.82
(40%Imax) 1897.09
(50%Imax) 2371.36
(60%Imax) 2845.64
(70%Imax) 3319.91
(80%Imax) 3794.18
(90%Imax) 4268.46

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/12
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/12
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2521-L

Luminance Limitting Curve(no luminous side)

Luminance Table

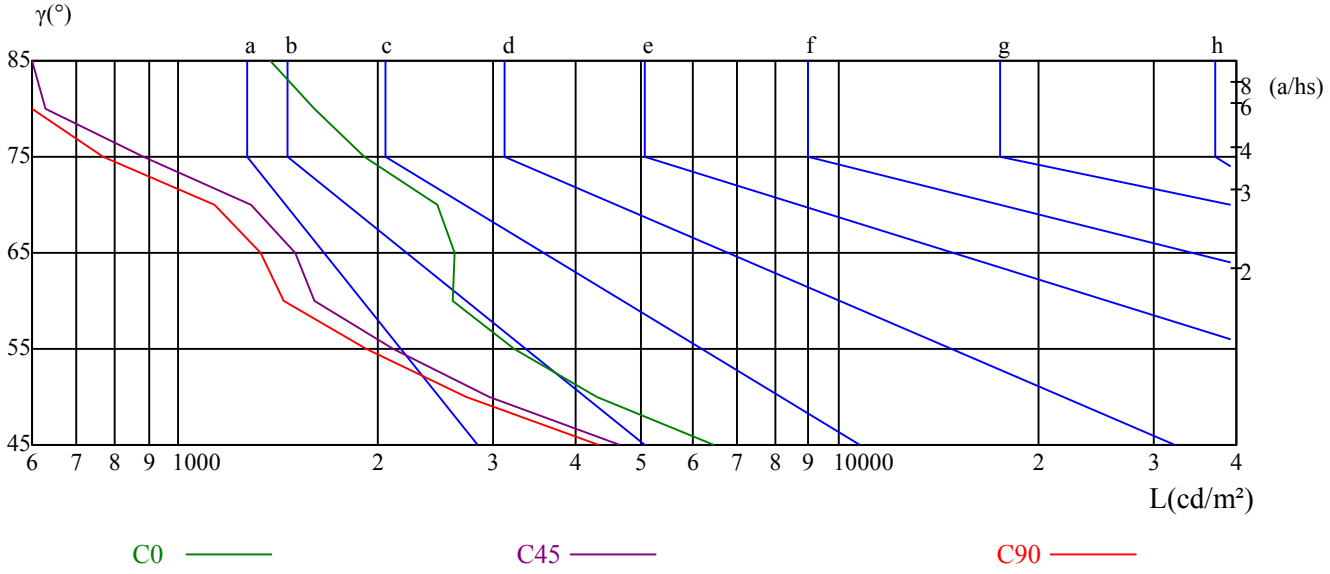
γ	45	50	55	60	65	70	75	80	85
C0	6456	4291	3227	2607	2618	2474	1916	1608	1372
C45	4672	2964	2114	1606	1497	1290	885	627	409
C90	4327	2721	1923	1446	1333	1134	767	533	341

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3119	3119	3119	2554	2554	2554	2773	2773	2773

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



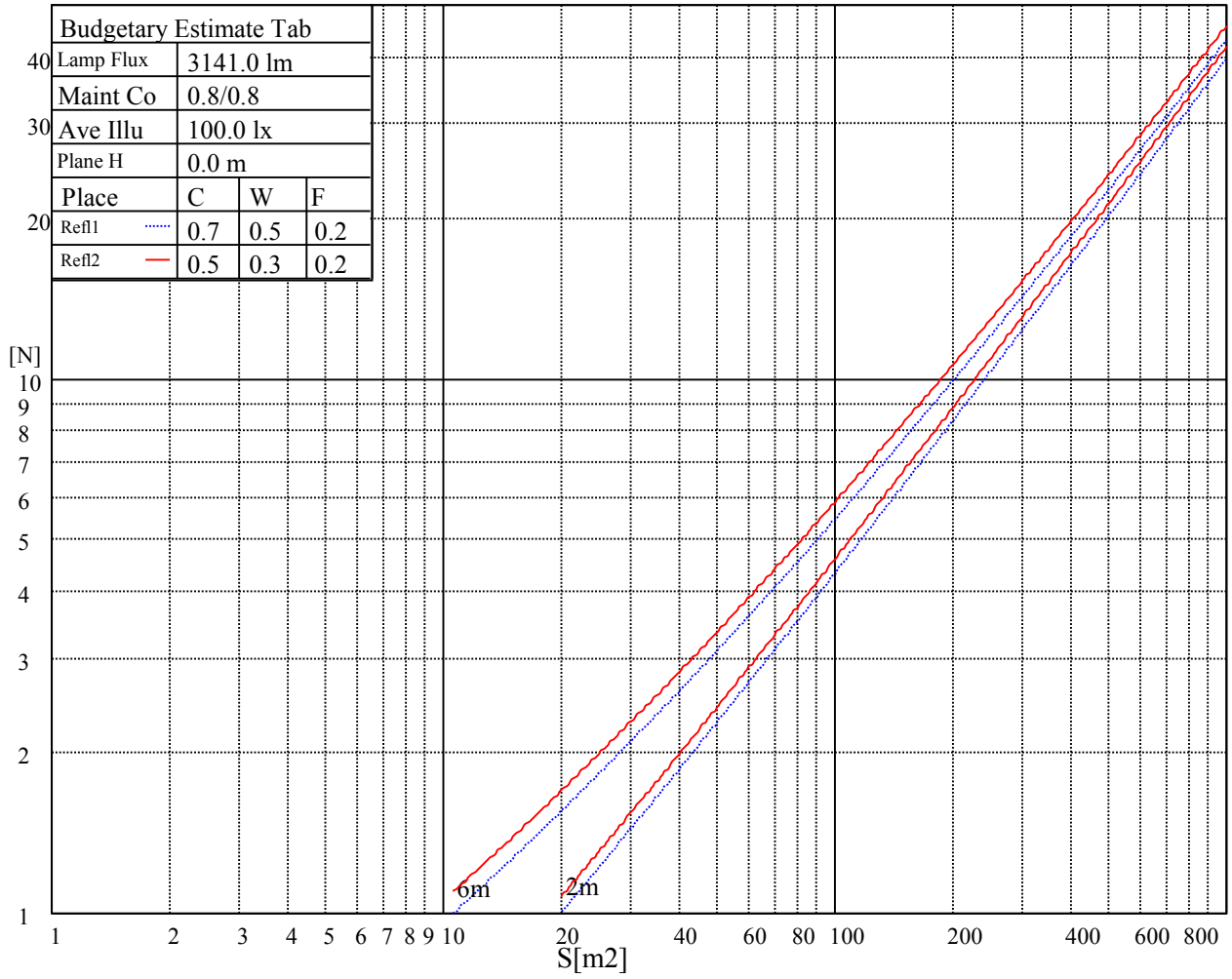
UGR Glare

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	12.36	13.28	12.72	13.59	13.91	11.21	12.13	11.57	12.44	12.76
	3H	12.49	13.31	12.88	13.65	14.00	11.38	12.20	11.77	12.54	12.88
	4H	12.52	13.28	12.92	13.63	14.00	11.39	12.15	11.79	12.50	12.87
	6H	12.51	13.21	12.93	13.59	13.98	11.34	12.04	11.76	12.42	12.82
	8H	12.48	13.14	12.90	13.52	13.93	11.29	11.95	11.71	12.33	12.74
	12H	12.44	13.06	12.87	13.46	13.88	11.23	11.85	11.65	12.25	12.67
4H	2H	12.17	12.93	12.57	13.28	13.65	11.07	11.83	11.47	12.18	12.55
	3H	12.41	13.05	12.84	13.44	13.86	11.37	12.01	11.80	12.40	12.82
	4H	12.52	13.07	12.96	13.49	13.94	11.45	12.00	11.89	12.42	12.87
	6H	12.50	12.99	12.98	13.44	13.89	11.39	11.87	11.86	12.32	12.78
	8H	12.50	12.95	12.99	13.41	13.88	11.36	11.80	11.84	12.26	12.74
	12H	12.51	12.92	13.00	13.37	13.89	11.32	11.74	11.82	12.19	12.71
8H	4H	12.40	12.84	12.89	13.30	13.78	11.37	11.81	11.85	12.27	12.75
	6H	12.40	12.77	12.91	13.25	13.76	11.32	11.69	11.83	12.17	12.68
	8H	12.47	12.77	13.01	13.30	13.80	11.35	11.65	11.89	12.18	12.68
	12H	12.50	12.72	13.04	13.24	13.77	11.33	11.56	11.88	12.08	12.60
12H	4H	12.35	12.76	12.84	13.21	13.74	11.32	11.73	11.81	12.19	12.71
	6H	12.40	12.70	12.93	13.22	13.72	11.32	11.63	11.86	12.15	12.65
	8H	12.44	12.66	12.98	13.18	13.71	11.32	11.55	11.87	12.07	12.59

Variation with the observer position at spacings:		
S = 1.0H	6.0/-6.9	6.0/-6.4
S = 1.5H	8.7/-7.0	8.6/-6.4
S = 2.0H	10.6/-6.7	10.5/-5.9
Standard tables:	BK0	BK1
Uncorrected UGR	-5.1	-4.5

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

Budgetary Estimate Table



Equipment: GMS 1800
Temperature(°C): 25.0

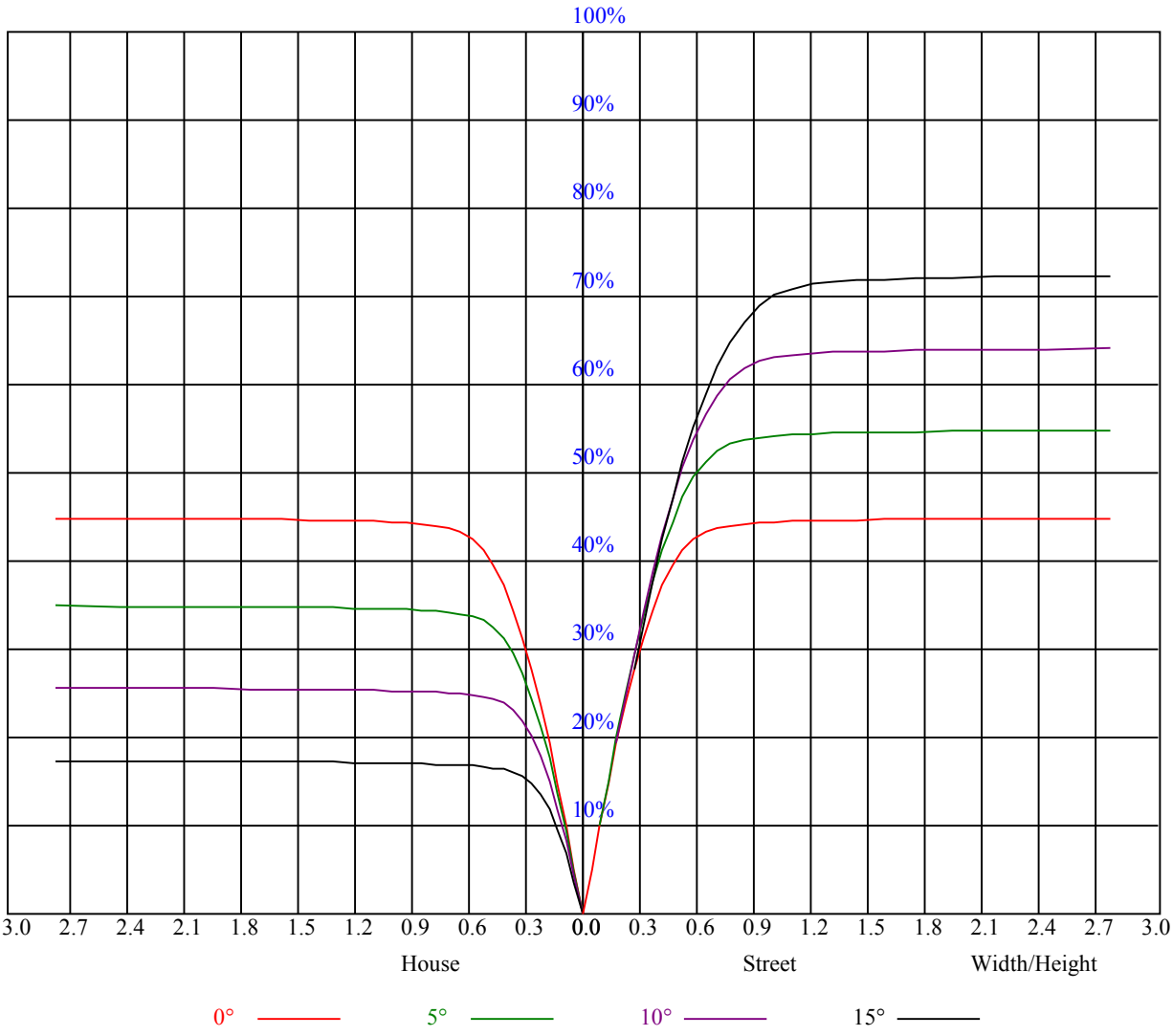
Date: 2024/8/12
Humidity(%): 60.0%

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	1.07	1.07	1.07	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	1.00	0.98	0.96	0.98	0.96	0.95	0.95	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.87	0.85
2	0.94	0.91	0.88	0.92	0.89	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.81	0.80
3	0.88	0.84	0.81	0.87	0.84	0.81	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
4	0.84	0.79	0.76	0.83	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.73	0.71
5	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.67
6	0.75	0.70	0.67	0.74	0.70	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
7	0.71	0.66	0.63	0.71	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.61
8	0.68	0.63	0.60	0.67	0.63	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.58
9	0.65	0.60	0.57	0.64	0.60	0.56	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.55
10	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.56	0.54	0.60	0.56	0.53	0.59	0.56	0.53	0.52

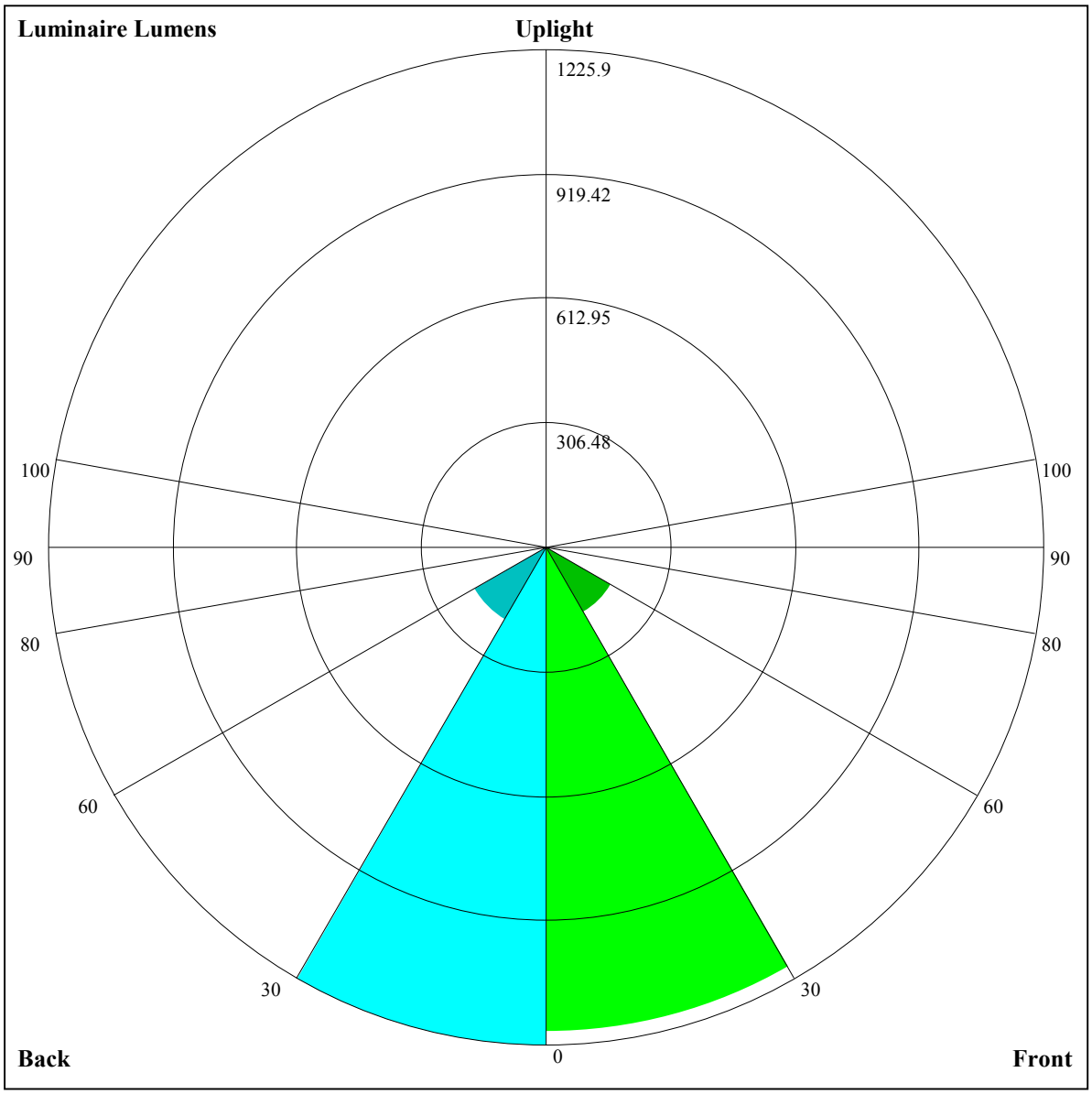
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/12
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=1194.77,FM=183.48,FH=12.05,FVH=1.63
BL=1225.9,BM=204.54,BH=10.74,BVH=1.49
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	4731.15	4684.37	4638.69	4560.69	4501.61	4393.54	4330.57	4254.25	4170.10
45.0	4755.70	4740.09	4687.16	4633.12	4550.65	4477.12	4385.71	4294.88	4215.78
90.0	4714.44	4634.75	4580.72	4503.82	4438.64	4333.88	4243.63	4179.56	4093.20
135.0	4769.63	4748.44	4691.05	4633.65	4588.55	4511.07	4434.17	4328.89	4245.89
180.0	4731.15	4742.87	4723.37	4676.54	4628.08	4594.65	4512.75	4434.17	4357.33
225.0	4755.70	4747.87	4699.98	4660.98	4632.54	4565.11	4461.51	4399.11	4295.46
270.0	4714.44	4750.13	4784.66	4751.23	4696.04	4649.26	4573.46	4517.75	4428.08
315.0	4769.63	4766.26	4747.34	4689.36	4639.80	4564.58	4479.32	4366.79	4293.25
360.0	4731.15	4684.37	4638.69	4560.69	4501.61	4393.54	4330.57	4254.25	4170.10

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4086.52	3994.59	3897.67	3808.52	3695.93	3591.23	3486.47	3381.71	3274.17
45.0	4117.75	4033.02	3944.45	3844.16	3742.77	3626.29	3527.15	3429.07	3294.25
90.0	3994.01	3906.55	3789.55	3690.94	3583.97	3483.68	3375.04	3276.96	3151.59
135.0	4148.39	4055.88	3983.45	3873.70	3759.48	3648.05	3527.68	3412.94	3302.61
180.0	4282.11	4198.53	4121.06	4039.74	3950.60	3828.55	3733.83	3670.86	3518.80
225.0	4222.45	4130.52	4053.67	3958.95	3865.34	3755.01	3646.37	3537.72	3425.71
270.0	4329.47	4240.32	4152.81	4051.99	3978.98	3884.84	3833.02	3724.95	3576.72
315.0	4211.31	4122.74	4030.81	3947.81	3839.17	3734.93	3627.97	3526.00	3420.14
360.0	4086.52	3994.59	3897.67	3808.52	3695.93	3591.23	3486.47	3381.71	3274.17

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3147.13	3016.77	2880.85	2742.66	2598.90	2441.21	2258.45	2135.35	1851.20
45.0	3194.49	3071.38	2933.20	2795.59	2643.47	2506.97	2348.18	2165.42	1965.94
90.0	3022.34	2891.99	2765.47	2627.86	2499.19	2336.46	2145.92	1935.30	1763.73
135.0	3177.77	3050.78	2970.52	2762.16	2632.33	2545.39	2340.40	2235.06	2041.74
180.0	3403.42	3336.56	3159.43	3081.95	2924.26	2776.09	2628.44	2473.54	2316.43
225.0	3338.24	3206.21	3082.53	2953.28	2807.26	2641.79	2489.15	2405.00	2193.28
270.0	3508.76	3422.40	3319.85	3204.00	3062.45	2928.20	2780.56	2641.79	2500.82
315.0	3321.53	3186.71	3063.55	2988.34	2845.16	2713.70	2574.41	2423.39	2252.36
360.0	3147.13	3016.77	2880.85	2742.66	2598.90	2441.21	2258.45	2135.35	1851.20

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1638.37	1506.28	1083.31	1083.31	877.85	687.83	518.48	372.72	265.76
45.0	1758.16	1541.40	1324.68	1115.17	914.06	726.26	551.33	400.32	283.89
90.0	1500.71	1030.49	1030.49	906.23	705.76	528.88	377.56	272.33	210.72
135.0	1836.17	1618.29	1400.42	1183.71	975.35	778.08	594.80	434.32	305.07
180.0	2137.03	1931.99	1714.69	1496.30	1280.11	1071.17	868.33	677.79	502.87
225.0	1997.16	1869.02	1651.15	1443.89	991.85	991.85	798.53	614.61	446.26
270.0	2351.54	2181.03	1987.13	1777.66	1562.00	1347.49	1129.67	920.74	722.37
315.0	2055.67	1842.84	1623.29	1101.66	1017.08	974.88	807.57	585.44	424.71
360.0	1638.37	1506.28	1083.31	1083.31	877.85	687.83	518.48	372.72	265.76

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	204.05	161.84	131.09	108.33	91.04	77.53	68.54	59.61	50.99
45.0	283.89	217.19	144.44	117.48	98.19	83.15	71.33	61.81	54.40
90.0	167.83	135.98	113.43	96.50	83.10	72.48	64.02	59.61	51.04
135.0	305.07	215.09	146.75	122.10	104.13	89.78	78.21	68.65	61.13
180.0	354.64	305.07	305.07	148.49	120.68	101.97	87.52	75.69	65.91
225.0	311.06	219.40	168.36	134.61	111.38	94.14	80.74	73.75	61.03
270.0	544.07	388.65	291.14	291.14	168.94	137.19	114.59	97.24	83.73
315.0	321.31	222.02	176.87	149.12	119.16	104.13	89.30	77.48	68.07
360.0	204.05	161.84	131.09	108.33	91.04	77.53	68.54	59.61	50.99

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	45.99	41.00	36.74	33.27	30.28	27.75	25.60	23.81	22.23
45.0	48.15	43.15	39.05	35.37	32.06	29.22	26.91	25.28	22.97
90.0	48.04	43.57	38.21	36.37	33.48	30.91	28.65	26.49	24.70
135.0	54.93	49.78	45.57	41.63	38.27	35.37	32.64	30.17	28.12
180.0	58.19	51.88	46.62	42.31	38.69	35.43	32.59	30.07	27.75
225.0	57.08	50.78	45.83	41.79	38.58	35.53	32.90	30.28	28.07
270.0	72.75	64.28	57.08	51.20	46.15	41.94	39.84	35.22	32.38
315.0	60.39	53.98	48.67	44.21	40.42	37.27	34.27	31.64	29.28
360.0	45.99	41.00	36.74	33.27	30.28	27.75	25.60	23.81	22.23

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	20.71	19.45	18.29	17.24	16.29	15.45	14.77	14.19	14.14
45.0	21.71	20.29	18.82	18.03	17.03	16.19	15.30	14.61	15.03
90.0	22.97	21.45	19.97	18.66	17.40	16.40	15.40	15.51	16.61
135.0	26.12	24.28	22.65	21.18	20.18	18.92	17.29	16.61	15.66
180.0	25.65	24.55	22.23	21.34	19.87	18.08	17.35	16.29	15.24
225.0	25.97	24.07	22.23	20.50	19.24	17.82	16.56	15.93	14.51
270.0	30.96	27.70	26.44	24.60	22.86	21.34	19.71	18.45	17.35
315.0	27.23	25.23	23.50	22.50	20.50	19.13	18.50	17.24	16.24
360.0	20.71	19.45	18.29	17.24	16.29	15.45	14.77	14.19	14.14

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.61	14.88	15.09	14.98	14.56	14.30	13.77	13.35	12.40
45.0	18.45	19.87	20.29	19.97	19.76	18.29	17.92	17.14	16.71
90.0	16.93	16.82	16.56	16.08	15.51	14.93	14.40	14.14	13.14
135.0	14.77	14.03	13.30	12.56	11.93	11.35	10.67	10.14	9.57
180.0	14.30	13.46	12.72	12.09	11.41	10.78	10.20	9.51	8.83
225.0	13.61	13.14	12.04	11.56	10.88	10.30	9.67	9.04	8.46
270.0	16.24	15.19	14.35	13.56	12.88	12.04	11.30	10.62	9.93
315.0	15.35	14.51	13.77	13.04	12.40	11.72	11.04	10.46	9.88
360.0	14.61	14.88	15.09	14.98	14.56	14.30	13.77	13.35	12.40

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.14	9.93	8.83	7.62	6.78	6.10	5.57	5.05	4.68
45.0	15.87	13.98	10.09	8.04	7.25	6.04	5.73	5.15	4.63
90.0	11.51	9.93	8.46	7.04	5.99	5.41	4.89	4.36	3.94
135.0	9.04	8.57	8.04	7.46	6.83	6.47	5.78	5.20	4.99
180.0	8.30	7.78	7.31	6.99	6.57	5.89	5.57	5.10	4.47
225.0	7.94	7.52	7.04	6.52	6.04	5.68	5.20	4.73	4.26
270.0	9.36	8.67	8.09	7.73	7.25	6.68	6.36	5.83	5.41
315.0	9.41	8.83	8.36	7.83	7.36	6.78	6.52	5.83	5.31
360.0	11.14	9.93	8.83	7.62	6.78	6.10	5.57	5.05	4.68

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.31	3.94	3.47	3.10	2.79	2.52	2.26	2.10	1.79
45.0	4.21	3.63	3.26	2.89	2.63	2.31	2.00	1.73	1.68
90.0	3.63	3.26	2.89	2.63	2.31	2.10	1.89	1.84	1.89
135.0	4.31	3.89	3.47	3.05	2.63	2.31	2.00	1.73	1.42
180.0	4.26	3.73	3.31	2.89	2.52	2.16	1.84	1.52	1.26
225.0	3.89	3.63	3.05	2.63	2.37	2.00	1.68	1.42	1.21
270.0	4.94	4.36	4.05	3.57	3.05	2.73	2.31	1.94	1.68
315.0	4.89	4.57	4.05	3.78	3.36	2.89	2.73	2.31	2.16
360.0	4.31	3.94	3.47	3.10	2.79	2.52	2.26	2.10	1.79

Intensity data(cd)

C/γ(°)	90.0
0.0	1.79
45.0	1.68
90.0	1.94
135.0	1.42
180.0	1.00
225.0	1.05
270.0	1.42
315.0	2.05
360.0	1.79