NATA LIGHTING CO.,LTD.
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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client: NT
LumCAT: 61-0226
Luminaire: 92.70.427.00
Report No: 20241108-B006
Ballast type: AC

Test No: 20241108-C006	Voltage(V): 36.900
LampCAT: CITIZEN CLU7A2 LES4.5	Current(A): 0.197
Lamp flux(lm): 686.5	Power (W): 7.270
Number of Lamps: 1	PF: 0.000
Length(mm): 35	Width(mm): 35
Phm Type: C	Height(mm): 17

Photometric Results

Lumens(lm): 665.22, Efficiency(%): 96.90% , Luminous Efficacy(lm/W): 91.50
Central intensity(cd): 3460.933, Maximum intensity(cd): 3460.933
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=23.0
[C90/270]Total=23.0
Field angle(10%Imax): [C0/180]Total=39.4
[C90/270]Total=39.4
Maximum s/h(1/2): C0_180=0.40 C90_270=0.40
Maximum s/h(1/4): C0_180=0.39 C90_270=0.39
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.90%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.299%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3460.933	0.000	0	0.00%	0.00%
1.0	3447.838	3.306	3.306	0.48%	0.50%
2.0	3406.361	9.838	13.144	1.43%	1.98%
3.0	3343.815	16.144	29.288	2.35%	4.40%
4.0	3245.716	22.057	51.345	3.21%	7.72%
5.0	3131.817	27.436	78.781	4.00%	11.84%
6.0	2969.344	32.063	110.844	4.67%	16.66%
7.0	2797.434	35.794	146.638	5.21%	22.04%
8.0	2597.141	38.608	185.246	5.62%	27.85%
9.0	2377.389	40.316	225.562	5.87%	33.91%
10.0	2144.616	40.922	266.485	5.96%	40.06%
11.0	1899.845	40.412	306.897	5.89%	46.13%
12.0	1576.735	38.004	344.901	5.54%	51.85%
13.0	1334.650	34.551	379.452	5.03%	57.04%
14.0	1198.058	32.418	411.87	4.72%	61.92%
15.0	1024.524	30.513	442.383	4.44%	66.50%
16.0	833.141	27.220	469.603	3.97%	70.59%
17.0	678.481	23.540	493.143	3.43%	74.13%
18.0	535.049	20.008	513.151	2.91%	77.14%
19.0	414.471	16.520	529.671	2.41%	79.62%
20.0	316.760	13.384	543.055	1.95%	81.64%
21.0	260.535	11.085	554.14	1.61%	83.30%
22.0	210.337	9.462	563.602	1.38%	84.72%
23.0	148.340	7.526	571.128	1.10%	85.86%
24.0	103.336	5.503	576.631	0.80%	86.68%
25.0	82.290	4.221	580.852	0.61%	87.32%
26.0	68.025	3.548	584.4	0.52%	87.85%
27.0	57.696	3.076	587.476	0.45%	88.31%
28.0	50.381	2.736	590.212	0.40%	88.72%
29.0	44.799	2.490	592.702	0.36%	89.10%
30.0	40.578	2.305	595.007	0.34%	89.45%
31.0	37.037	2.160	597.167	0.31%	89.77%
32.0	34.177	2.040	599.207	0.30%	90.08%
33.0	31.456	1.934	601.141	0.28%	90.37%
34.0	29.393	1.841	602.982	0.27%	90.64%
35.0	27.484	1.766	604.749	0.26%	90.91%
36.0	25.925	1.701	606.449	0.25%	91.17%
37.0	24.521	1.645	608.095	0.24%	91.41%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	23.380	1.599	609.693	0.23%	91.65%
39.0	22.239	1.557	611.25	0.23%	91.89%
40.0	21.361	1.521	612.771	0.22%	92.12%
41.0	20.498	1.491	614.262	0.22%	92.34%
42.0	19.788	1.464	615.725	0.21%	92.56%
43.0	19.144	1.442	617.167	0.21%	92.78%
44.0	18.581	1.424	618.591	0.21%	92.99%
45.0	18.083	1.409	620	0.21%	93.20%
46.0	17.718	1.400	621.4	0.20%	93.41%
47.0	17.381	1.396	622.796	0.20%	93.62%
48.0	17.118	1.395	624.191	0.20%	93.83%
49.0	16.884	1.396	625.587	0.20%	94.04%
50.0	16.708	1.401	626.988	0.20%	94.25%
51.0	16.481	1.404	628.392	0.20%	94.46%
52.0	16.181	1.402	629.794	0.20%	94.67%
53.0	15.911	1.396	631.19	0.20%	94.88%
54.0	15.633	1.390	632.58	0.20%	95.09%
55.0	15.348	1.383	633.963	0.20%	95.30%
56.0	15.004	1.371	635.334	0.20%	95.51%
57.0	14.587	1.353	636.687	0.20%	95.71%
58.0	14.155	1.329	638.016	0.19%	95.91%
59.0	13.753	1.305	639.321	0.19%	96.11%
60.0	13.336	1.280	640.601	0.19%	96.30%
61.0	12.868	1.250	641.851	0.18%	96.49%
62.0	12.356	1.215	643.067	0.18%	96.67%
63.0	11.836	1.177	644.243	0.17%	96.85%
64.0	11.324	1.136	645.38	0.17%	97.02%
65.0	10.834	1.097	646.476	0.16%	97.18%
66.0	10.344	1.057	647.533	0.15%	97.34%
67.0	9.927	1.019	648.552	0.15%	97.49%
68.0	9.495	0.984	649.536	0.14%	97.64%
69.0	9.159	0.952	650.488	0.14%	97.79%
70.0	8.800	0.922	651.41	0.13%	97.92%
71.0	8.515	0.895	652.305	0.13%	98.06%
72.0	8.244	0.871	653.177	0.13%	98.19%
73.0	7.930	0.846	654.022	0.12%	98.32%
74.0	7.601	0.816	654.839	0.12%	98.44%
75.0	7.323	0.788	655.627	0.11%	98.56%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.132	0.767	656.395	0.11%	98.67%
77.0	6.928	0.750	657.144	0.11%	98.79%
78.0	6.737	0.731	657.876	0.11%	98.90%
79.0	6.555	0.714	658.59	0.10%	99.00%
80.0	6.357	0.696	659.286	0.10%	99.11%
81.0	6.196	0.679	659.965	0.10%	99.21%
82.0	6.050	0.664	660.629	0.10%	99.31%
83.0	5.889	0.649	661.278	0.09%	99.41%
84.0	5.713	0.632	661.91	0.09%	99.50%
85.0	5.530	0.614	662.524	0.09%	99.59%
86.0	5.326	0.593	663.117	0.09%	99.68%
87.0	5.091	0.570	663.687	0.08%	99.77%
88.0	4.879	0.546	664.233	0.08%	99.85%
89.0	4.484	0.513	664.747	0.07%	99.93%
90.0	4.119	0.472	665.218	0.07%	100.00%

Zonal flux distribution table

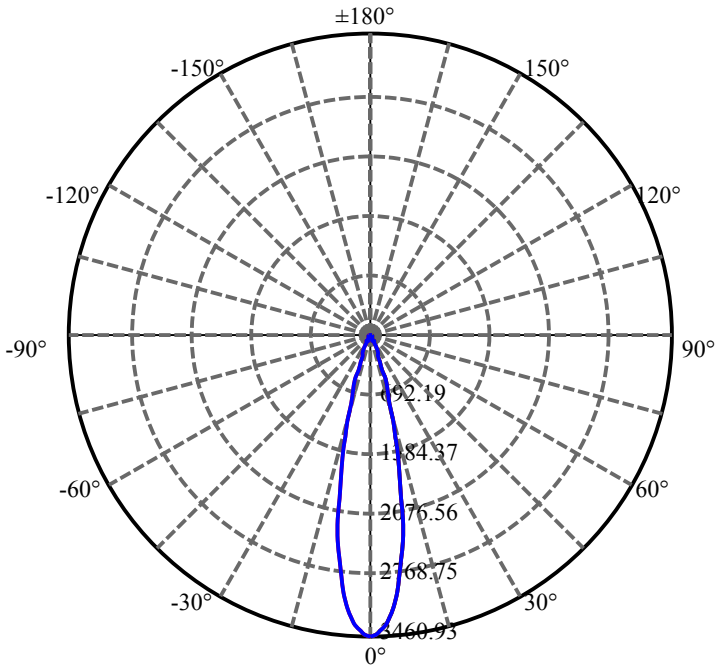
ZONAL LUMEN SUMMARY

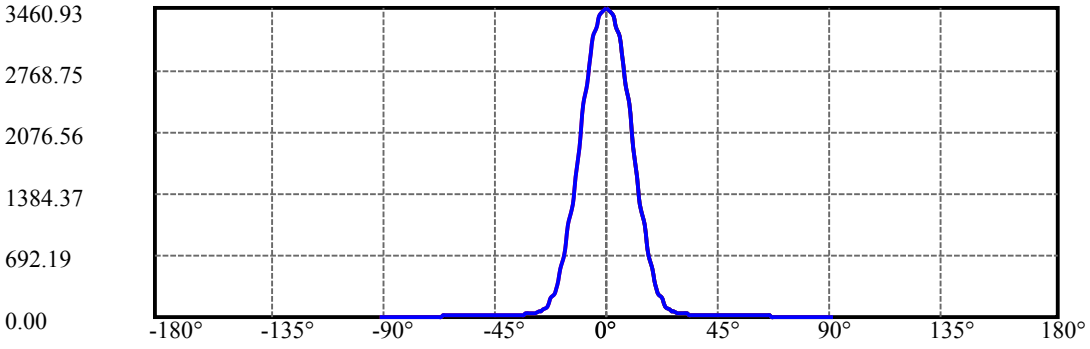
Zone	Lumens	%Lamp	%Fixt
0-30	595.01	86.67%	89.45%
0-40	612.77	89.26%	92.12%
0-60	640.60	93.31%	96.30%
0-90	664.75	96.83%	99.93%
0-120	664.75	96.83%	99.93%
0-180	665.22	96.90%	100.00%
60-90	24.15	3.52%	3.63%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-19.19	532.17	77.52%	80.00%

ZONAL LUMEN SUMMARY

0-10	266.48
10-20	276.57
20-30	51.95
30-40	17.76
40-50	14.22
50-60	13.61
60-70	10.81
70-80	7.88
80-90	5.46
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):

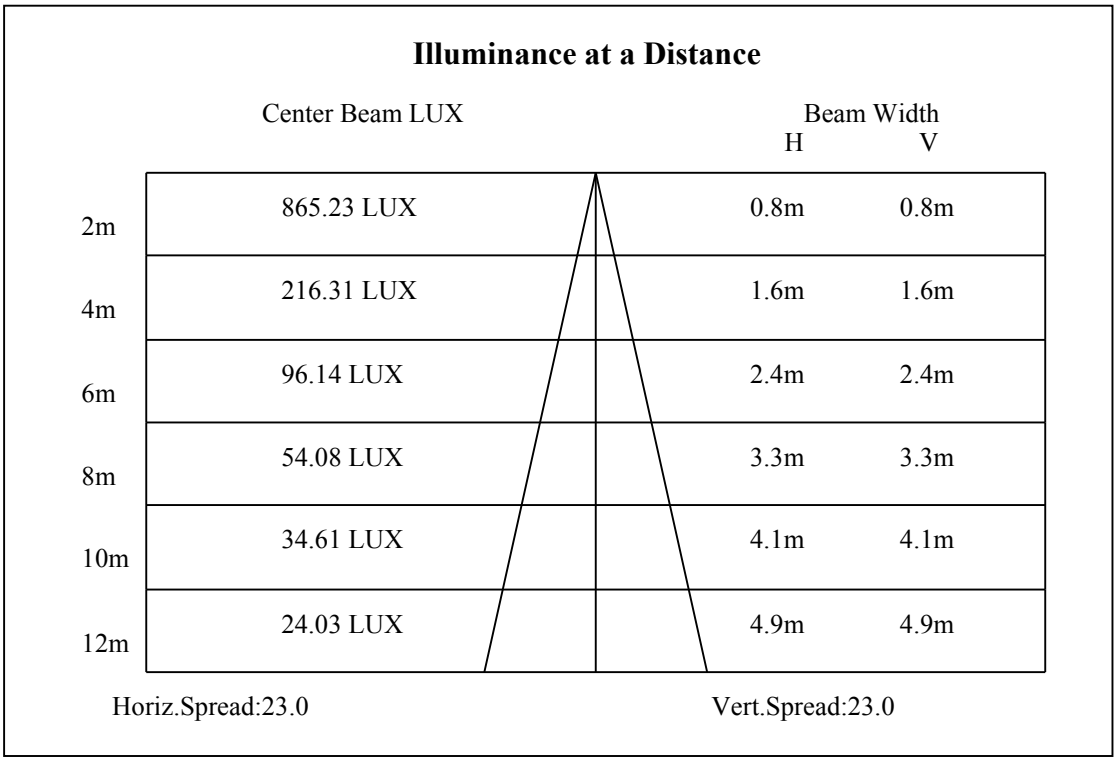
C0/C180:

C90/C270:

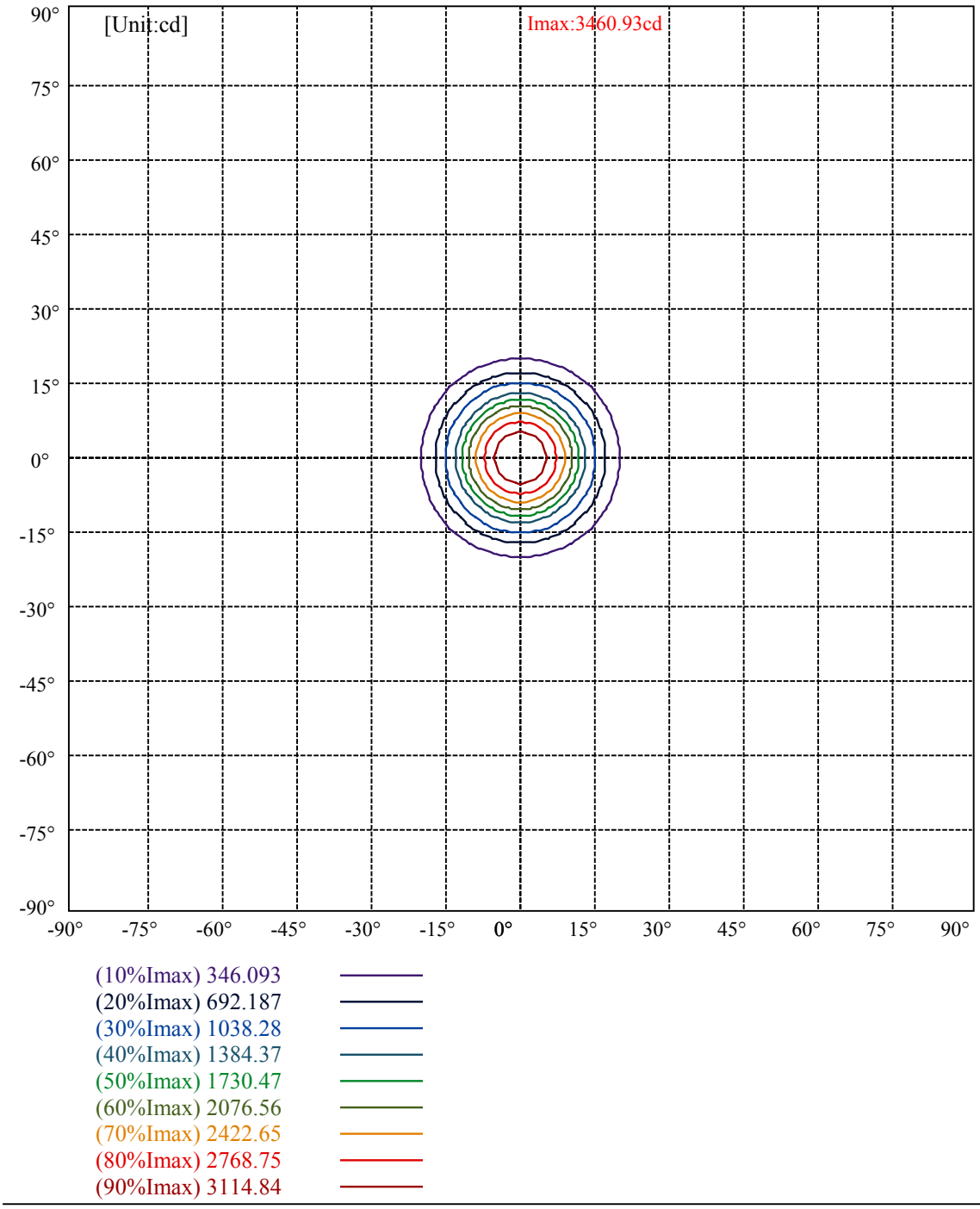
Field angle(10%Imax):C0/180Left:19.7 Right:19.7
:C90/270Left:19.7 Right:19.7

Beam Angle(50%Imax):C0/180Left:11.5 Right:11.5
:C90/270Left:11.5 Right:11.5

Lux distance Curve



ISO-Intensity(V-H)



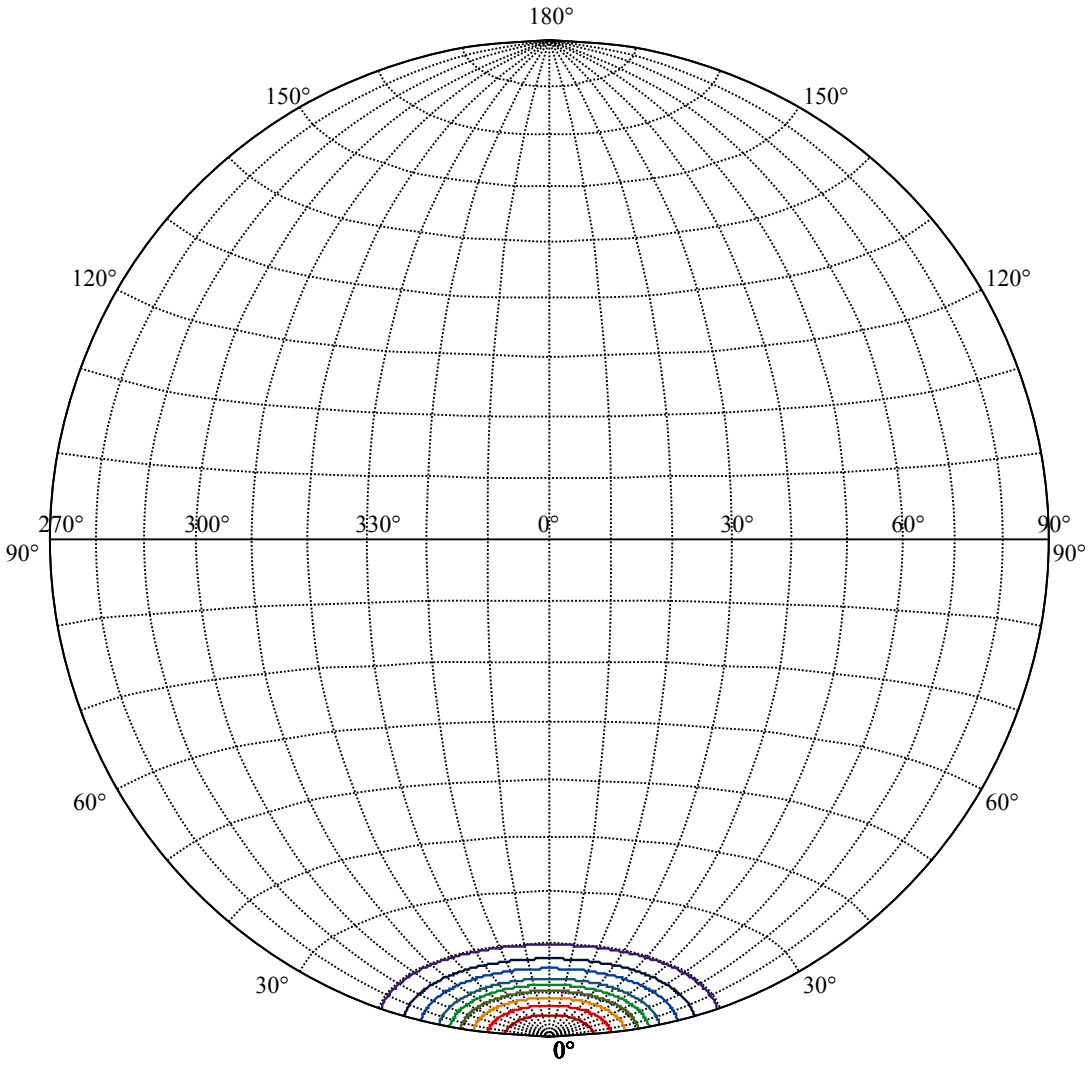
(10%Imax) 346.093
(20%Imax) 692.187
(30%Imax) 1038.28
(40%Imax) 1384.37
(50%Imax) 1730.47
(60%Imax) 2076.56
(70%Imax) 2422.65
(80%Imax) 2768.75
(90%Imax) 3114.84

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/11/8
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:3460.93

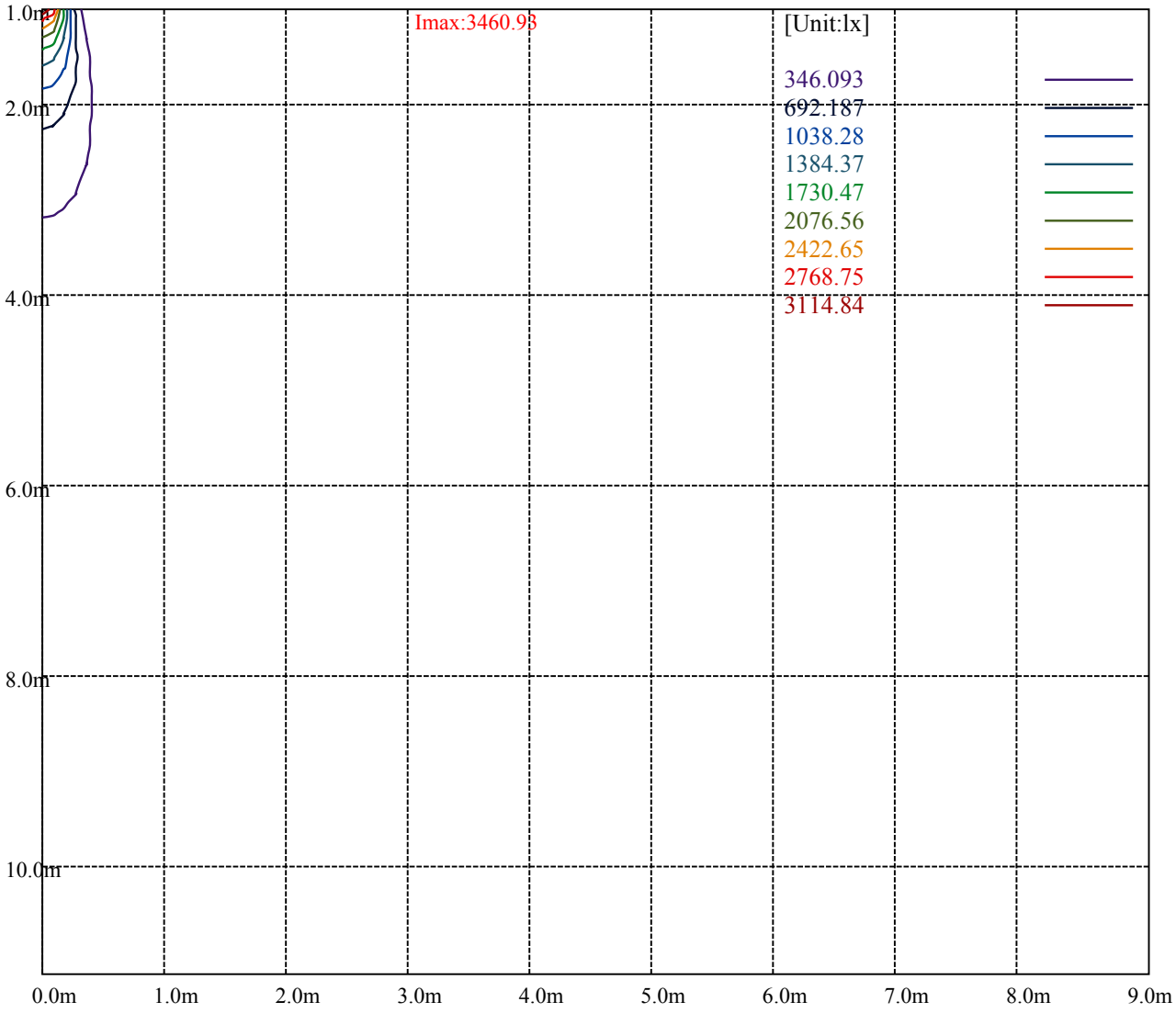
(10%Imax) 346.093
(20%Imax) 692.187
(30%Imax) 1038.28
(40%Imax) 1384.37
(50%Imax) 1730.47
(60%Imax) 2076.56
(70%Imax) 2422.65
(80%Imax) 2768.75
(90%Imax) 3114.84

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/11/8
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/11/8
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT NT 61-0226

Luminance Limitting Curve(no luminous side)

Luminance Table

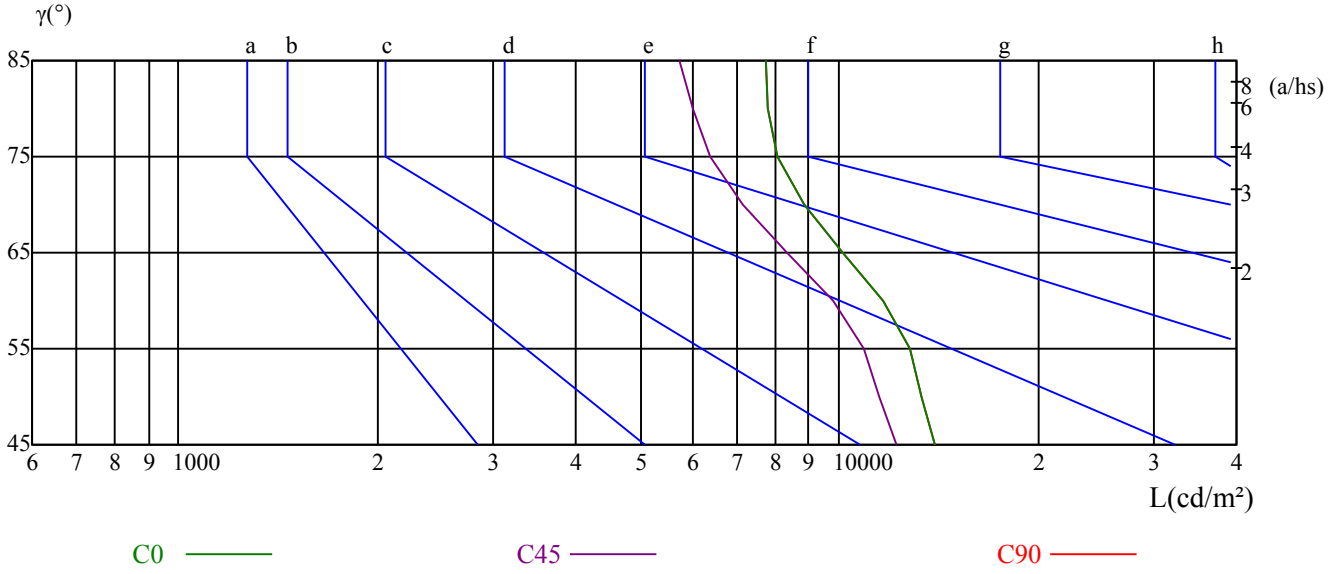
γ	45	50	55	60	65	70	75	80	85
C0	13944	13325	12774	11699	10129	8878	8089	7824	7752
C45	12258	11545	10899	9818	8345	7165	6373	5992	5732
C90	13944	13325	12774	11699	10129	8878	8089	7824	7752

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
20927	20927	20927	23096	23096	23096	51799	51799	51799

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: 2024/11/8
Humidity(%): 60.0%

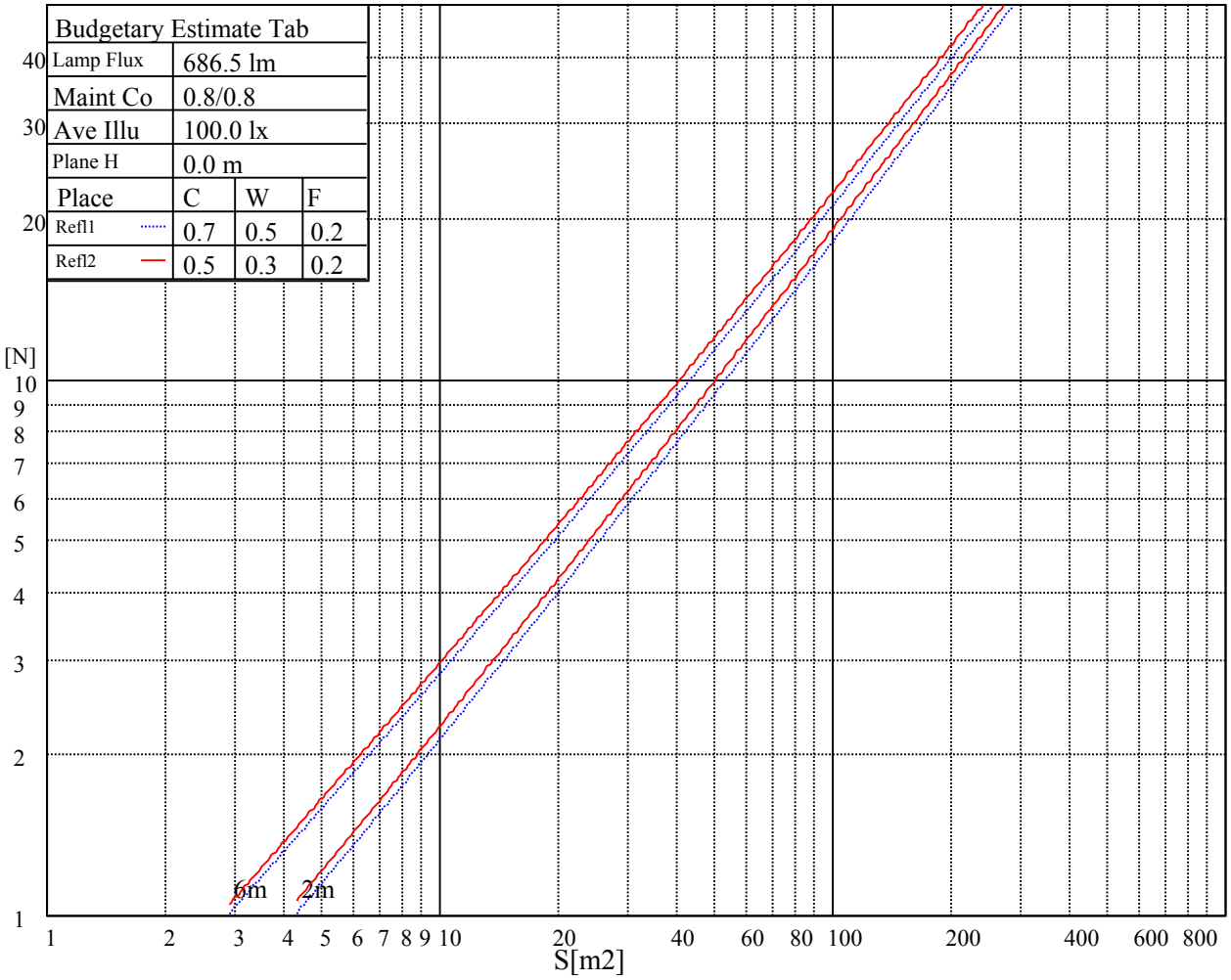
Operator: NT07
Distance(m): 7.65

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	14.54	15.54	14.90	15.85	16.17	14.21	15.21	14.57	15.52	15.84
	3H	16.13	17.02	16.51	17.36	17.71	15.72	16.62	16.11	16.96	17.30
	4H	16.85	17.68	17.25	18.03	18.40	16.37	17.21	16.77	17.56	17.93
	6H	17.61	18.37	18.03	18.75	19.15	17.08	17.85	17.50	18.22	18.62
	8H	17.97	18.70	18.39	19.09	19.49	17.42	18.15	17.84	18.54	18.94
	12H	18.32	19.02	18.75	19.41	19.83	17.77	18.46	18.19	18.85	19.27
4H	2H	15.13	15.97	15.53	16.32	16.69	14.88	15.71	15.28	16.07	16.44
	3H	16.84	17.55	17.27	17.94	18.36	16.51	17.21	16.94	17.61	18.03
	4H	17.73	18.34	18.17	18.77	19.21	17.33	17.94	17.77	18.37	18.81
	6H	18.60	19.14	19.07	19.59	20.04	18.14	18.68	18.61	19.13	19.59
	8H	19.07	19.57	19.56	20.03	20.50	18.59	19.09	19.07	19.55	20.02
	12H	19.54	20.00	20.03	20.46	20.97	19.04	19.51	19.53	19.96	20.48
8H	4H	17.96	18.46	18.44	18.92	19.39	17.61	18.11	18.09	18.57	19.04
	6H	19.02	19.43	19.52	19.91	20.42	18.62	19.03	19.12	19.51	20.02
	8H	19.68	20.03	20.21	20.55	21.05	19.25	19.60	19.79	20.12	20.62
	12H	20.31	20.59	20.86	21.10	21.62	19.87	20.14	20.42	20.66	21.18
12H	4H	17.99	18.45	18.48	18.91	19.42	17.65	18.12	18.14	18.57	19.09
	6H	19.16	19.51	19.70	20.03	20.53	18.79	19.13	19.32	19.65	20.15
	8H	19.86	20.13	20.40	20.65	21.17	19.46	19.73	20.00	20.25	20.77

Variation with the observer position at spacings:		
S = 1.0H	0.2/-0.7	0.2/-0.7
S = 1.5H	0.5/-0.7	0.5/-0.7
S = 2.0H	0.4/-0.8	0.4/-0.8
Standard tables:	BKBF	BKBF
Uncorrected UGR	3.3	3.3

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

Budgetary Estimate Table

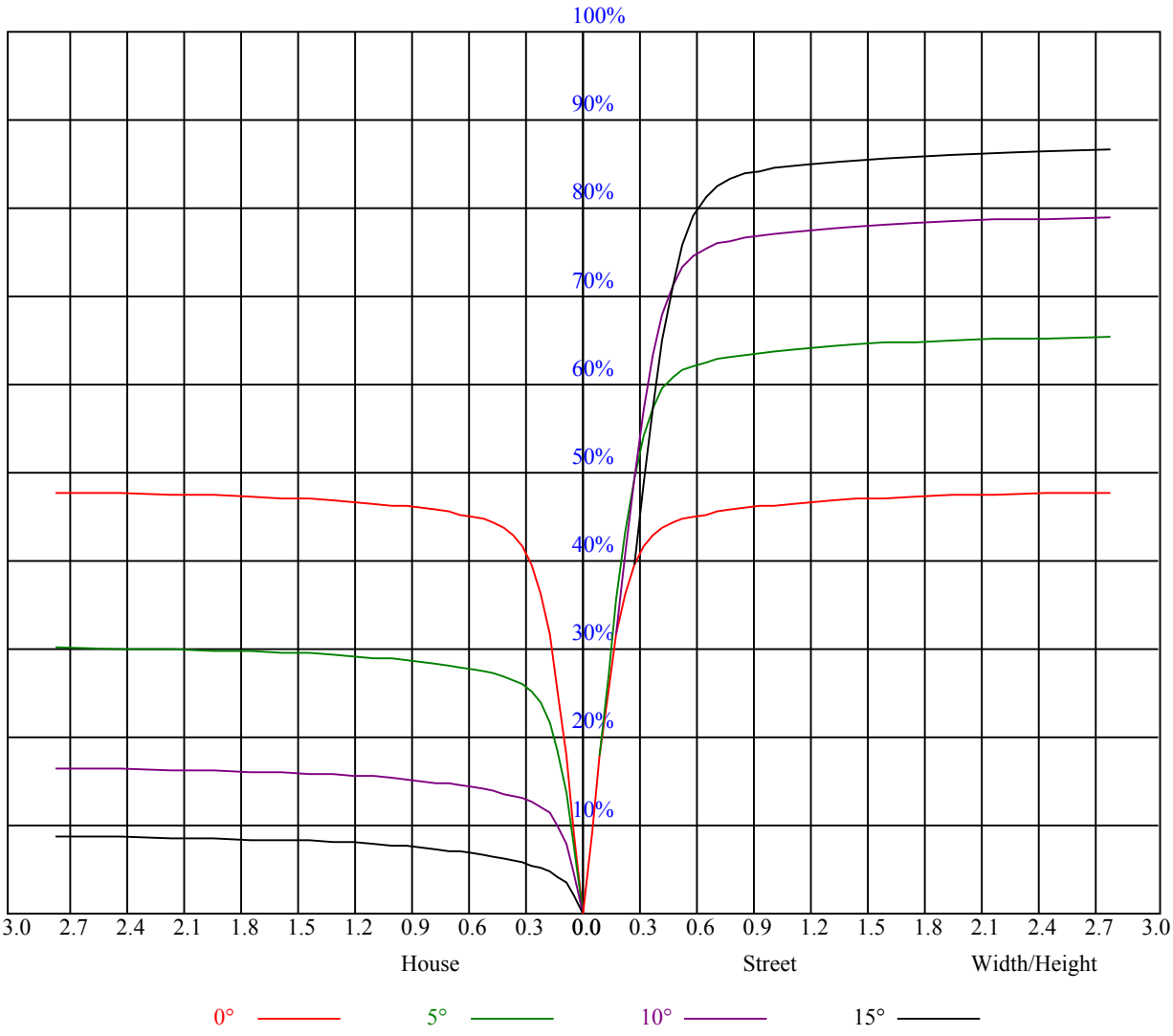


Equipment: GMS1980 Date: 2024/11/8 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

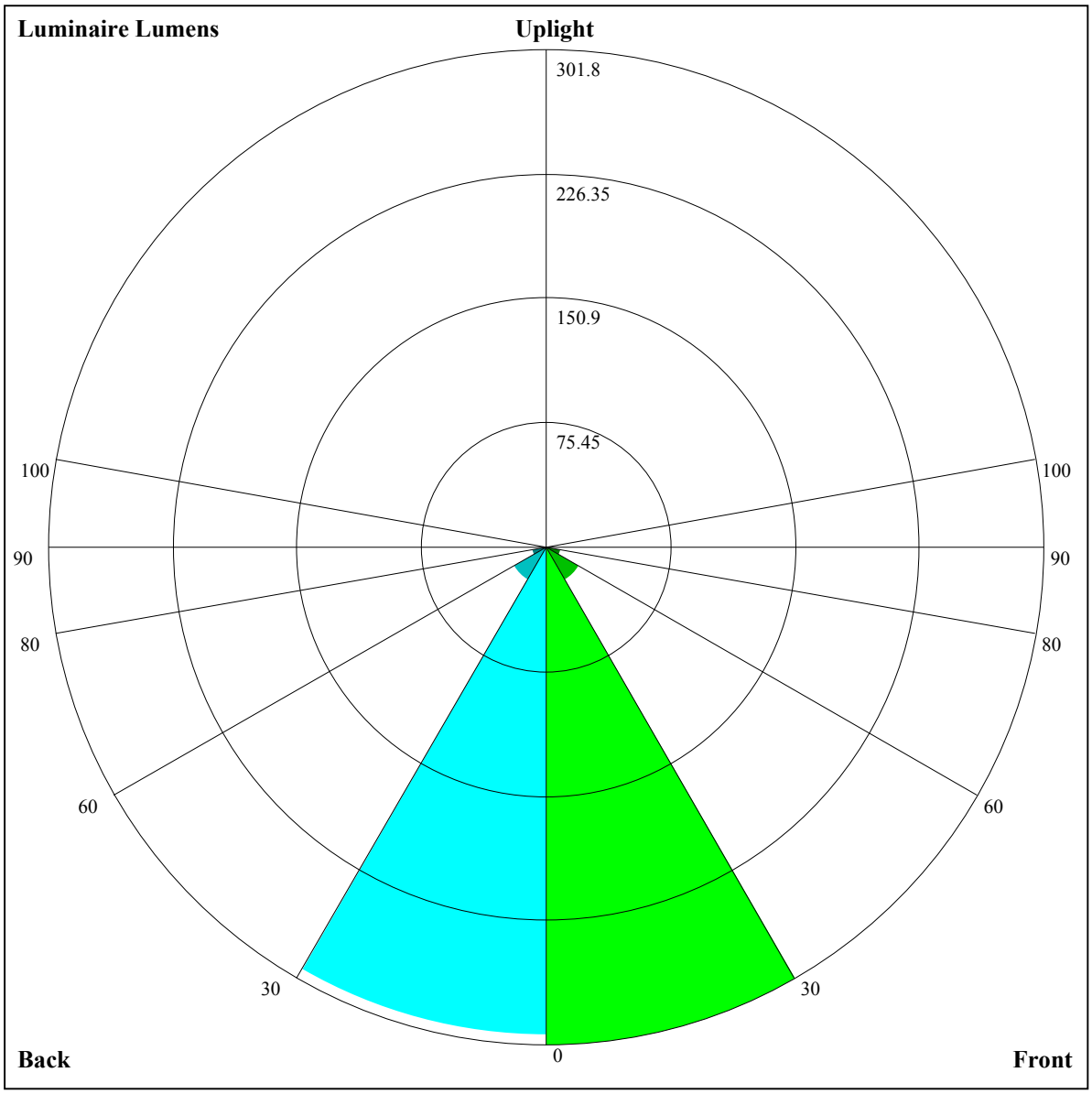
Utilization factor table for indoor luminaire

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	1.15	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	1.08	1.06	1.04	1.06	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.92
2	1.03	1.00	0.97	1.01	0.98	0.96	0.98	0.96	0.94	0.95	0.93	0.92	0.93	0.91	0.90	0.88
3	0.98	0.94	0.91	0.97	0.93	0.91	0.94	0.92	0.89	0.92	0.90	0.88	0.90	0.88	0.87	0.85
4	0.94	0.90	0.87	0.93	0.89	0.86	0.91	0.88	0.86	0.89	0.87	0.85	0.88	0.85	0.84	0.82
5	0.91	0.87	0.83	0.90	0.86	0.83	0.88	0.85	0.82	0.87	0.84	0.82	0.86	0.83	0.81	0.80
6	0.88	0.84	0.81	0.87	0.83	0.80	0.86	0.82	0.80	0.85	0.82	0.79	0.83	0.81	0.79	0.78
7	0.85	0.81	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.82	0.79	0.77	0.76
8	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.80	0.77	0.75	0.74
9	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.72
10	0.79	0.75	0.72	0.78	0.74	0.72	0.78	0.74	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.71

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/11/8	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=301.8,FM=23.06,FH=9.43,FVH=2.97
BL=296.15,BM=22.6,BH=9.11,BVH=2.9
UL=0,UH=0

BUG Rating:B1-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	3468.10	3436.50	3389.10	3320.63	3205.92	3088.88	2947.84	2782.80	2549.88
45.0	3465.18	3456.98	3427.14	3376.81	3283.17	3181.34	3057.27	2867.66	2690.92
90.0	3451.13	3413.09	3331.74	3238.11	3121.06	2980.61	2778.71	2594.95	2393.63
135.0	3459.32	3458.74	3430.65	3375.64	3269.13	3153.84	3016.89	2859.47	2628.30
180.0	3468.10	3469.86	3437.08	3385.59	3306.58	3201.24	3027.43	2847.76	2649.96
225.0	3465.18	3446.45	3404.31	3338.77	3219.97	3088.88	2879.37	2681.56	2463.86
270.0	3451.13	3465.76	3456.98	3414.26	3352.81	3267.37	3128.09	2989.39	2827.87
315.0	3459.32	3435.33	3373.88	3300.73	3207.09	3092.39	2919.16	2755.88	2572.71
360.0	3468.10	3436.50	3389.10	3320.63	3205.92	3088.88	2947.84	2782.80	2549.88

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2345.06	2125.01	1896.77	1616.45	1156.11	1156.11	1018.53	804.39	653.11
45.0	2493.70	2284.19	2008.55	1788.51	1573.14	1313.89	1117.25	889.60	726.32
90.0	2125.01	1902.04	1627.57	1125.74	1125.74	993.65	830.61	682.72	552.69
135.0	2419.96	2201.67	1975.19	1697.21	1482.43	1279.36	1042.34	869.70	713.45
180.0	2431.08	2138.47	1901.45	1667.95	1388.80	1191.58	999.04	787.19	646.15
225.0	2236.79	2010.31	1729.98	1153.30	1153.30	1059.37	883.22	723.63	582.36
270.0	2595.53	2388.95	2168.32	1888.58	1669.12	1461.95	1265.90	1037.08	872.63
315.0	2371.98	2106.28	1890.92	1676.14	1128.55	1128.55	1039.30	870.81	681.14
360.0	2345.06	2125.01	1896.77	1616.45	1156.11	1156.11	1018.53	804.39	653.11

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	523.72	386.31	296.07	208.11	156.78	119.33	93.58	72.92	61.98
45.0	585.87	465.90	340.66	298.52	298.52	145.96	104.64	82.75	67.71
90.0	418.96	329.60	256.27	197.86	142.74	110.84	87.90	72.16	59.11
135.0	548.41	437.22	322.52	303.21	303.21	144.67	106.16	85.21	70.70
180.0	479.94	376.36	311.40	311.40	155.26	121.96	98.26	80.70	65.31
225.0	460.69	336.86	258.32	184.70	142.91	112.71	86.79	72.74	62.38
270.0	714.03	574.16	431.37	337.15	297.35	297.35	144.78	107.74	87.32
315.0	548.77	409.36	317.48	243.34	185.93	133.90	104.58	84.10	69.70
360.0	523.72	386.31	296.07	208.11	156.78	119.33	93.58	72.92	61.98

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	53.90	47.99	42.72	39.44	36.64	34.18	31.54	29.61	27.56
45.0	55.48	48.57	43.48	38.92	35.99	33.47	30.78	28.91	27.27
90.0	51.73	44.89	40.73	37.28	33.65	31.19	29.09	27.27	25.34
135.0	60.34	51.03	45.53	41.26	37.75	34.00	31.60	29.03	27.27
180.0	56.88	50.33	45.06	40.09	36.93	34.18	31.13	29.20	27.21
225.0	53.08	47.46	42.90	39.21	35.41	32.83	30.61	28.68	26.57
270.0	72.57	61.92	52.32	46.76	42.37	38.68	34.88	32.36	30.20
315.0	57.59	50.86	45.65	41.67	37.57	34.88	32.01	30.08	28.44
360.0	53.90	47.99	42.72	39.44	36.64	34.18	31.54	29.61	27.56

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	26.16	24.64	23.64	22.65	21.83	20.89	20.25	19.61	19.14
45.0	25.57	24.35	23.23	22.18	21.42	20.60	20.07	19.66	19.20
90.0	23.99	22.82	21.83	20.66	19.90	19.25	18.49	17.97	17.50
135.0	25.75	24.11	22.94	21.95	21.07	20.07	19.49	18.96	18.43
180.0	25.69	24.40	23.29	22.12	21.30	20.48	19.78	19.02	18.43
225.0	25.16	23.94	22.59	21.59	20.54	19.78	19.08	18.43	17.79
270.0	28.38	26.51	25.22	23.76	22.71	21.71	20.66	19.90	19.14
315.0	26.69	25.40	24.29	23.00	22.12	21.19	20.48	19.61	19.02
360.0	26.16	24.64	23.64	22.65	21.83	20.89	20.25	19.61	19.14

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	18.49	18.08	17.73	17.44	17.09	16.91	16.68	16.56	16.50
45.0	18.96	18.67	18.38	17.91	17.38	16.97	16.56	16.15	15.80
90.0	17.03	16.80	16.62	16.50	16.44	16.39	16.33	15.92	15.51
135.0	17.97	17.62	17.44	17.32	17.38	17.44	17.09	16.50	16.04
180.0	17.97	17.56	17.09	16.74	16.44	16.21	16.04	15.74	15.51
225.0	17.38	17.09	16.85	16.62	16.50	16.33	16.15	15.92	15.68
270.0	18.38	17.91	17.38	17.09	16.74	16.50	16.27	16.15	16.04
315.0	18.49	18.02	17.56	17.32	17.09	16.91	16.74	16.50	16.21
360.0	18.49	18.08	17.73	17.44	17.09	16.91	16.68	16.56	16.50

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	16.50	16.27	15.86	15.16	14.51	14.05	13.58	13.17	12.58
45.0	15.63	15.57	15.51	15.39	15.22	15.04	14.81	14.46	13.93
90.0	15.04	14.57	14.16	13.81	13.28	12.87	12.52	11.94	11.53
135.0	15.51	15.16	14.75	14.34	13.81	13.46	13.05	12.64	12.11
180.0	15.27	14.98	14.63	14.28	13.99	13.58	13.11	12.70	12.35
225.0	15.22	14.86	14.51	13.93	13.58	13.17	12.76	12.17	11.65
270.0	15.92	15.74	15.45	15.04	14.51	13.93	13.46	12.93	12.23
315.0	15.98	15.63	15.16	14.75	14.34	13.93	13.40	12.93	12.47
360.0	16.50	16.27	15.86	15.16	14.51	14.05	13.58	13.17	12.58

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	12.17	11.76	11.24	10.89	10.53	10.07	9.77	9.48	9.13
45.0	13.11	12.35	11.65	10.83	10.24	9.83	9.48	9.13	8.84
90.0	11.12	10.65	10.30	9.89	9.54	9.13	8.84	8.54	8.19
135.0	11.70	11.29	10.83	10.48	10.01	9.66	9.36	8.95	8.66
180.0	11.82	11.41	11.06	10.59	10.30	9.89	9.60	9.31	9.01
225.0	11.18	10.65	10.12	9.66	9.13	8.66	8.37	7.78	7.37
270.0	11.65	11.00	10.42	9.89	9.48	8.95	8.49	8.13	8.19
315.0	11.94	11.47	11.06	10.53	10.18	9.77	9.36	9.07	8.72
360.0	12.17	11.76	11.24	10.89	10.53	10.07	9.77	9.48	9.13

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.84	8.49	8.19	7.84	7.67	7.49	7.26	7.02	6.79
45.0	8.49	8.19	7.72	7.43	7.14	6.91	6.73	6.61	6.44
90.0	7.78	7.43	7.14	6.91	6.79	6.55	6.44	6.26	6.09
135.0	8.37	7.96	7.55	7.32	7.20	6.96	6.79	6.61	6.44
180.0	8.66	8.25	7.96	7.72	7.49	7.32	7.20	7.02	6.79
225.0	7.32	7.20	6.96	6.79	6.67	6.38	6.09	5.91	5.68
270.0	8.08	7.90	7.61	7.20	6.96	6.79	6.61	6.38	6.20
315.0	8.43	8.02	7.67	7.37	7.14	7.02	6.79	6.61	6.44
360.0	8.84	8.49	8.19	7.84	7.67	7.49	7.26	7.02	6.79

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.61	6.38	6.14	5.97	5.74	5.50	5.27	5.15	4.74
45.0	6.44	6.44	6.38	6.20	6.03	5.85	5.44	5.21	4.74
90.0	5.85	5.68	5.56	5.38	5.27	5.03	4.86	4.74	4.39
135.0	6.20	6.09	5.79	5.62	5.50	5.33	5.09	4.86	4.62
180.0	6.67	6.50	6.32	6.09	5.85	5.62	5.33	5.15	4.62
225.0	5.50	5.38	5.33	5.27	5.09	4.92	4.80	4.51	4.16
270.0	5.97	5.79	5.62	5.38	5.21	5.03	4.86	4.68	4.21
315.0	6.32	6.14	5.97	5.79	5.56	5.33	5.09	4.74	4.39
360.0	6.61	6.38	6.14	5.97	5.74	5.50	5.27	5.15	4.74

Intensity data(cd)

C/γ(°)	90.0
0.0	4.51
45.0	4.16
90.0	4.21
135.0	4.33
180.0	4.16
225.0	4.04
270.0	3.86
315.0	3.69
360.0	4.51