NATA LIGHTING CO.,LTD.
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Tel:+86-750-3770000 Fax:+86 750 3771111
Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client: NT
LumCAT: 61-0244
Luminaire: 92.70.458.00
Report No: 20250112-B006
Ballast type: DC

Test No: 20250212-C006	Voltage(V): 36.710
LampCAT: CITIZEN CLU7A2	Current(A): 0.175
Lamp flux(lm): 705.1	Power (W): 6.424
Number of Lamps: 1	PF: 0.000
Length(mm): 28	Width(mm): 28
Phm Type: C	Height(mm): 14

Photometric Results

Lumens(lm): 681.77, Efficiency(%): 96.69% , Luminous Efficacy(lm/W): 106.13
Central intensity(cd): 3343.010, Maximum intensity(cd): 3343.010
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.8
[C90/270]Total=24.8
Field angle(10%Imax): [C0/180]Total=40.8
[C90/270]Total=40.8
Maximum s/h(1/2): C0_180=0.42 C90_270=0.42
Maximum s/h(1/4): C0_180=0.40 C90_270=0.40
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.69%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.489%

Equipment: GMS1980	Date: 2025/2/12	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3343.010	0.000	0	0.00%	0.00%
1.0	3333.354	3.195	3.195	0.45%	0.47%
2.0	3290.413	9.507	12.702	1.35%	1.86%
3.0	3223.990	15.580	28.282	2.21%	4.15%
4.0	3129.037	21.266	49.547	3.02%	7.27%
5.0	3011.480	26.416	75.964	3.75%	11.14%
6.0	2877.025	30.946	106.909	4.39%	15.68%
7.0	2727.573	34.788	141.697	4.93%	20.78%
8.0	2562.832	37.862	179.559	5.37%	26.34%
9.0	2373.000	40.002	219.562	5.67%	32.20%
10.0	2171.316	41.124	260.686	5.83%	38.24%
11.0	1897.307	40.654	301.34	5.77%	44.20%
12.0	1741.564	39.778	341.118	5.64%	50.03%
13.0	1542.873	38.978	380.096	5.53%	55.75%
14.0	1283.523	36.178	416.274	5.13%	61.06%
15.0	1077.202	32.409	448.683	4.60%	65.81%
16.0	931.086	29.427	478.11	4.17%	70.13%
17.0	767.076	26.445	504.555	3.75%	74.01%
18.0	605.042	22.623	527.178	3.21%	77.33%
19.0	484.903	18.963	546.141	2.69%	80.11%
20.0	378.011	15.794	561.934	2.24%	82.42%
21.0	267.272	12.391	574.325	1.76%	84.24%
22.0	195.019	9.290	583.615	1.32%	85.60%
23.0	153.709	7.317	590.932	1.04%	86.68%
24.0	133.307	6.275	597.208	0.89%	87.60%
25.0	85.099	4.966	602.174	0.70%	88.33%
26.0	62.831	3.492	605.666	0.50%	88.84%
27.0	51.346	2.793	608.459	0.40%	89.25%
28.0	44.850	2.435	610.894	0.35%	89.60%
29.0	39.795	2.215	613.109	0.31%	89.93%
30.0	36.079	2.049	615.158	0.29%	90.23%
31.0	33.365	1.933	617.09	0.27%	90.51%
32.0	31.229	1.851	618.941	0.26%	90.78%
33.0	29.393	1.786	620.727	0.25%	91.05%
34.0	27.659	1.727	622.453	0.24%	91.30%
35.0	26.145	1.671	624.124	0.24%	91.54%
36.0	24.953	1.627	625.751	0.23%	91.78%
37.0	23.702	1.587	627.338	0.23%	92.02%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	22.546	1.544	628.882	0.22%	92.24%
39.0	21.551	1.505	630.387	0.21%	92.46%
40.0	20.688	1.473	631.86	0.21%	92.68%
41.0	19.832	1.443	633.303	0.20%	92.89%
42.0	19.071	1.413	634.716	0.20%	93.10%
43.0	18.405	1.388	636.104	0.20%	93.30%
44.0	17.805	1.367	637.471	0.19%	93.50%
45.0	17.279	1.348	638.819	0.19%	93.70%
46.0	16.781	1.332	640.151	0.19%	93.90%
47.0	16.313	1.316	641.468	0.19%	94.09%
48.0	15.925	1.303	642.771	0.18%	94.28%
49.0	15.574	1.294	644.065	0.18%	94.47%
50.0	15.260	1.286	645.35	0.18%	94.66%
51.0	14.952	1.278	646.628	0.18%	94.85%
52.0	14.689	1.272	647.9	0.18%	95.03%
53.0	14.455	1.268	649.168	0.18%	95.22%
54.0	14.206	1.263	650.431	0.18%	95.40%
55.0	13.972	1.258	651.689	0.18%	95.59%
56.0	13.731	1.252	652.941	0.18%	95.77%
57.0	13.460	1.243	654.184	0.18%	95.95%
58.0	13.168	1.231	655.416	0.17%	96.13%
59.0	12.868	1.217	656.633	0.17%	96.31%
60.0	12.495	1.198	657.831	0.17%	96.49%
61.0	12.151	1.176	659.007	0.17%	96.66%
62.0	11.748	1.152	660.159	0.16%	96.83%
63.0	11.353	1.124	661.282	0.16%	97.00%
64.0	10.922	1.093	662.375	0.16%	97.16%
65.0	10.512	1.061	663.436	0.15%	97.31%
66.0	10.081	1.027	664.463	0.15%	97.46%
67.0	9.671	0.993	665.457	0.14%	97.61%
68.0	9.239	0.958	666.415	0.14%	97.75%
69.0	8.873	0.924	667.339	0.13%	97.88%
70.0	8.471	0.891	668.229	0.13%	98.01%
71.0	8.120	0.858	669.087	0.12%	98.14%
72.0	7.827	0.829	669.916	0.12%	98.26%
73.0	7.659	0.810	670.726	0.11%	98.38%
74.0	7.579	0.801	671.527	0.11%	98.50%
75.0	7.513	0.797	672.324	0.11%	98.61%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.337	0.788	673.113	0.11%	98.73%
77.0	7.059	0.768	673.88	0.11%	98.84%
78.0	6.737	0.739	674.619	0.10%	98.95%
79.0	6.708	0.722	675.341	0.10%	99.06%
80.0	6.737	0.725	676.066	0.10%	99.16%
81.0	6.584	0.720	676.786	0.10%	99.27%
82.0	6.211	0.694	677.48	0.10%	99.37%
83.0	5.750	0.650	678.13	0.09%	99.47%
84.0	5.435	0.609	678.74	0.09%	99.56%
85.0	5.179	0.579	679.319	0.08%	99.64%
86.0	4.945	0.553	679.873	0.08%	99.72%
87.0	4.762	0.531	680.404	0.08%	99.80%
88.0	4.404	0.502	680.906	0.07%	99.87%
89.0	3.841	0.452	681.358	0.06%	99.94%
90.0	3.643	0.410	681.768	0.06%	100.00%

Zonal flux distribution table

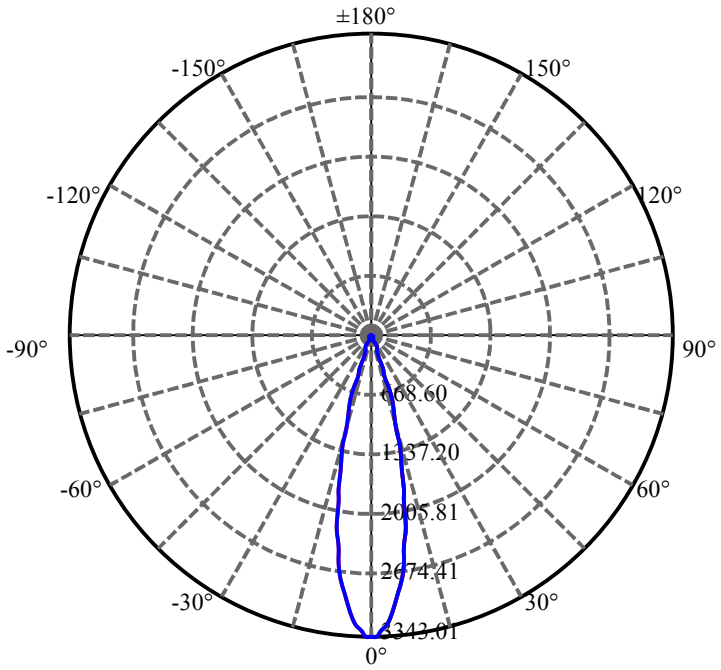
ZONAL LUMEN SUMMARY

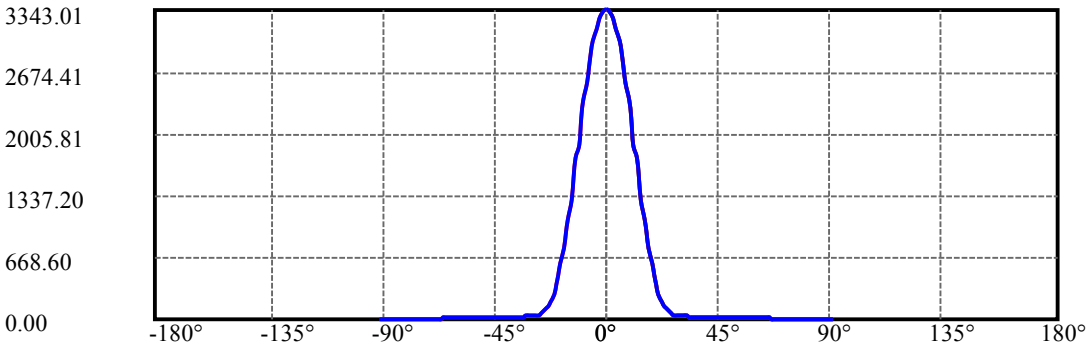
Zone	Lumens	%Lamp	%Fixt
0-30	615.16	87.25%	90.23%
0-40	631.86	89.61%	92.68%
0-60	657.83	93.30%	96.49%
0-90	681.36	96.63%	99.94%
0-120	681.36	96.63%	99.94%
0-180	681.77	96.69%	100.00%
60-90	23.53	3.34%	3.45%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-18.96	545.41	77.35%	80.00%

ZONAL LUMEN SUMMARY

0-10	260.69
10-20	301.25
20-30	53.22
30-40	16.70
40-50	13.49
50-60	12.48
60-70	10.40
70-80	7.84
80-90	5.29
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):

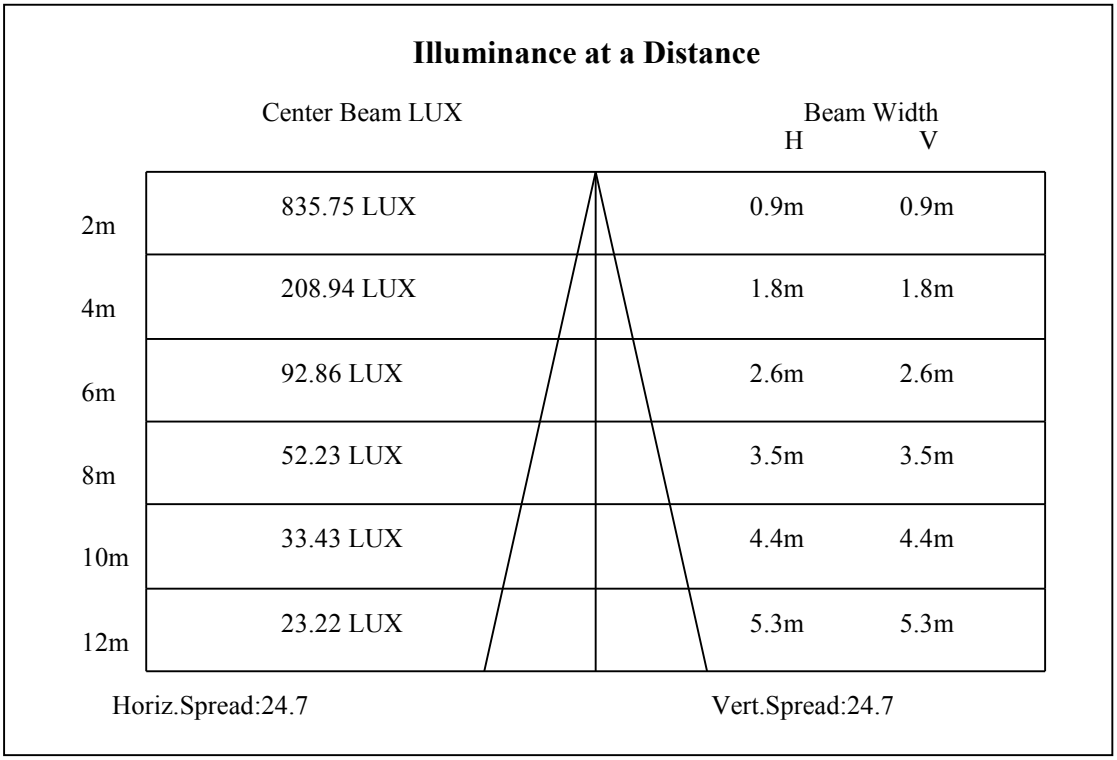
C0/C180:

C90/C270:

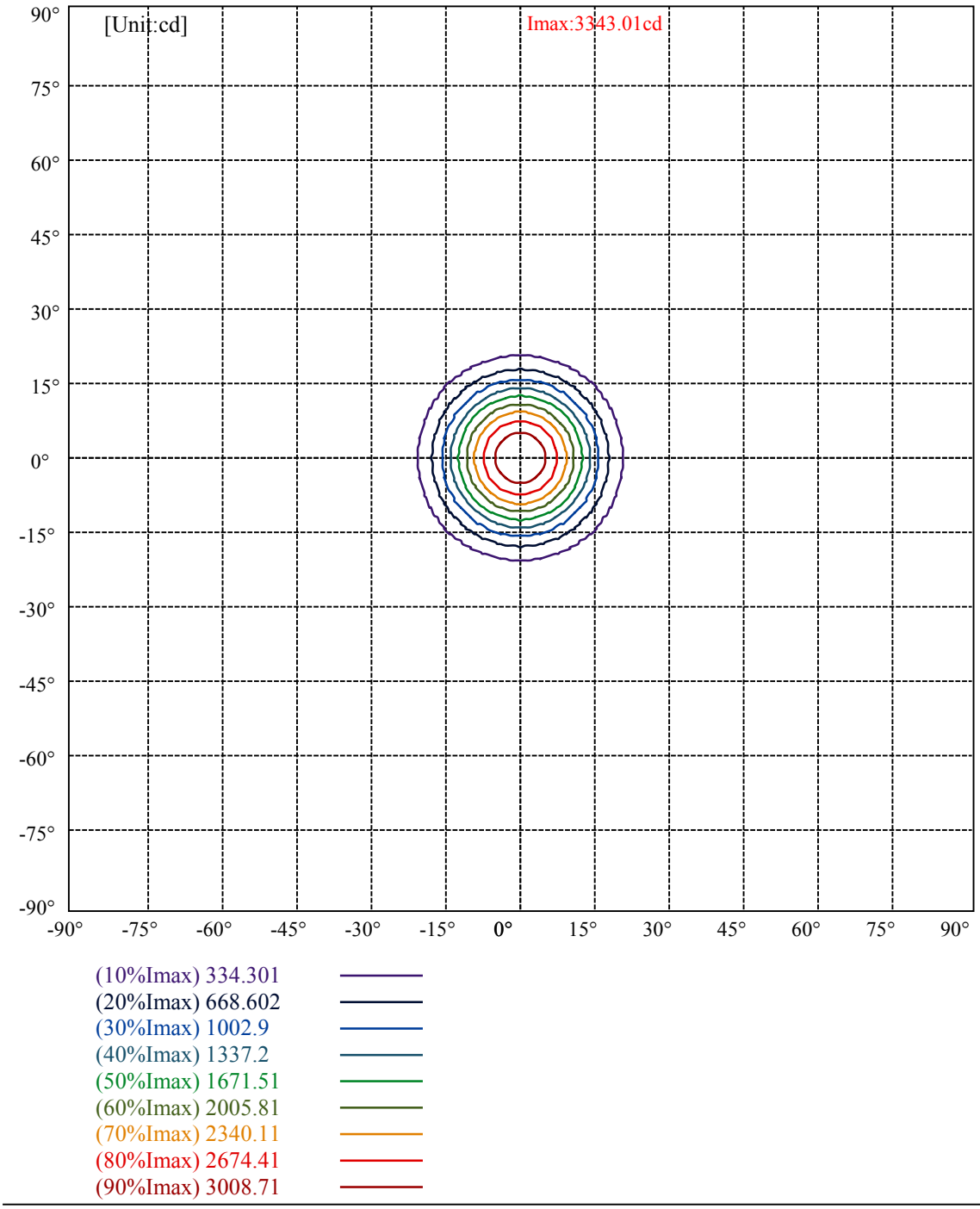
Field angle(10%Imax):C0/180Left:20.4 Right:20.4
:C90/270Left:20.4 Right:20.4

Beam Angle(50%Imax):C0/180Left:12.4 Right:12.4
:C90/270Left:12.4 Right:12.4

Lux distance Curve



ISO-Intensity(V-H)

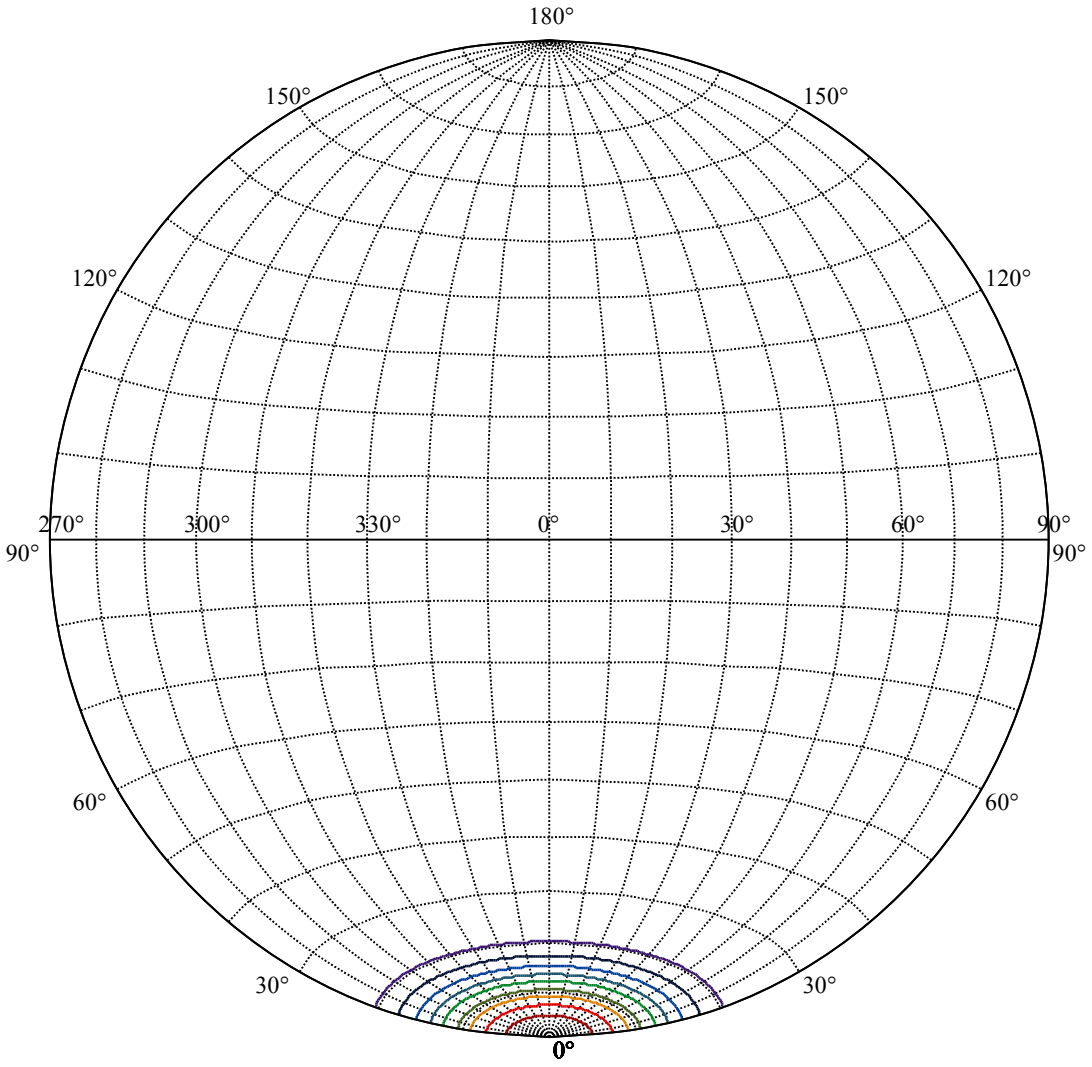


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/2/12
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



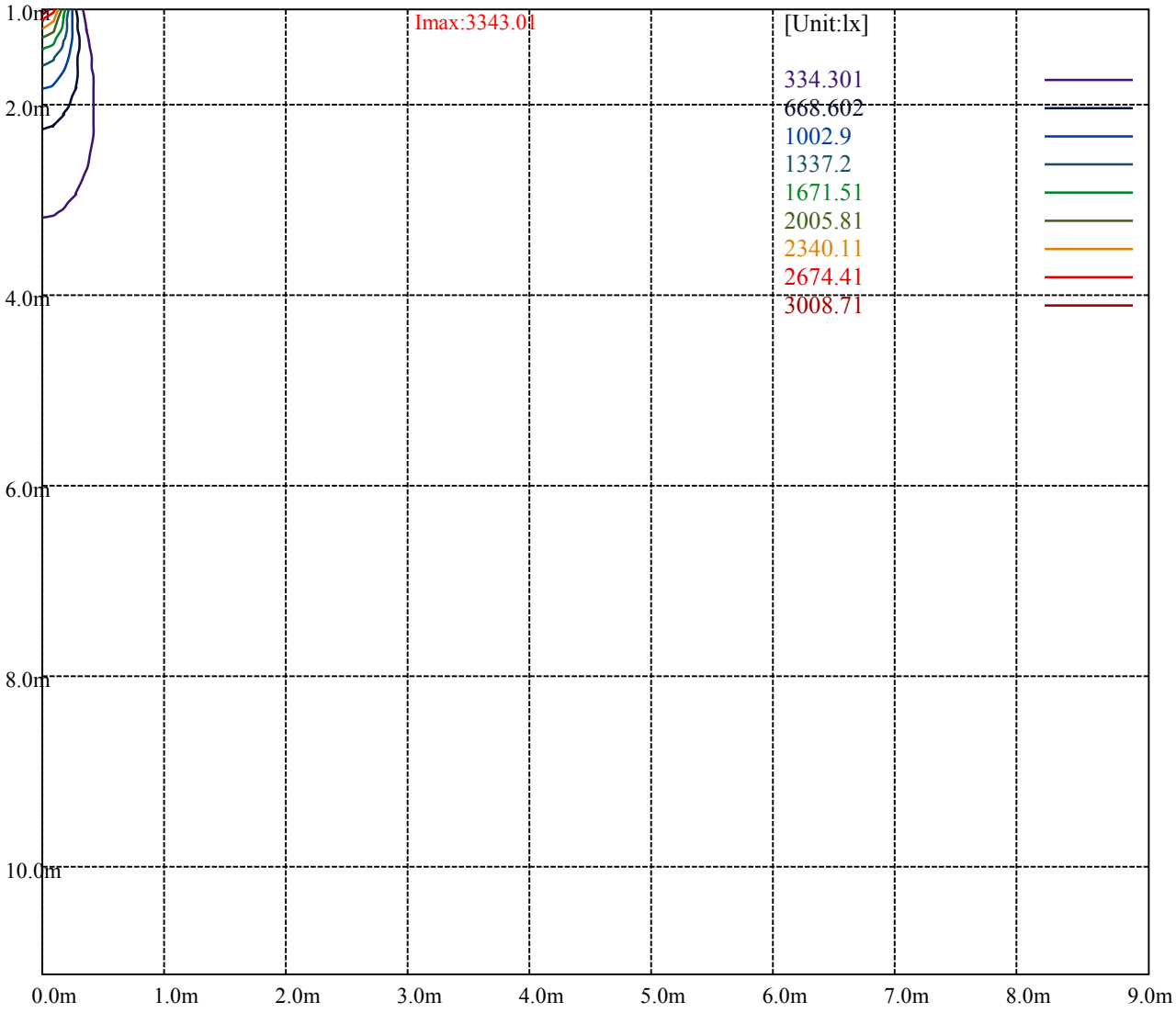
House [Unit:cd] Road

Imax:3343.01

(10%Imax) 334.301
(20%Imax) 668.602
(30%Imax) 1002.9
(40%Imax) 1337.2
(50%Imax) 1671.51
(60%Imax) 2005.81
(70%Imax) 2340.11
(80%Imax) 2674.41
(90%Imax) 3008.71

Equipment: GMS1980 Date: 2025/2/12 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/2/12
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

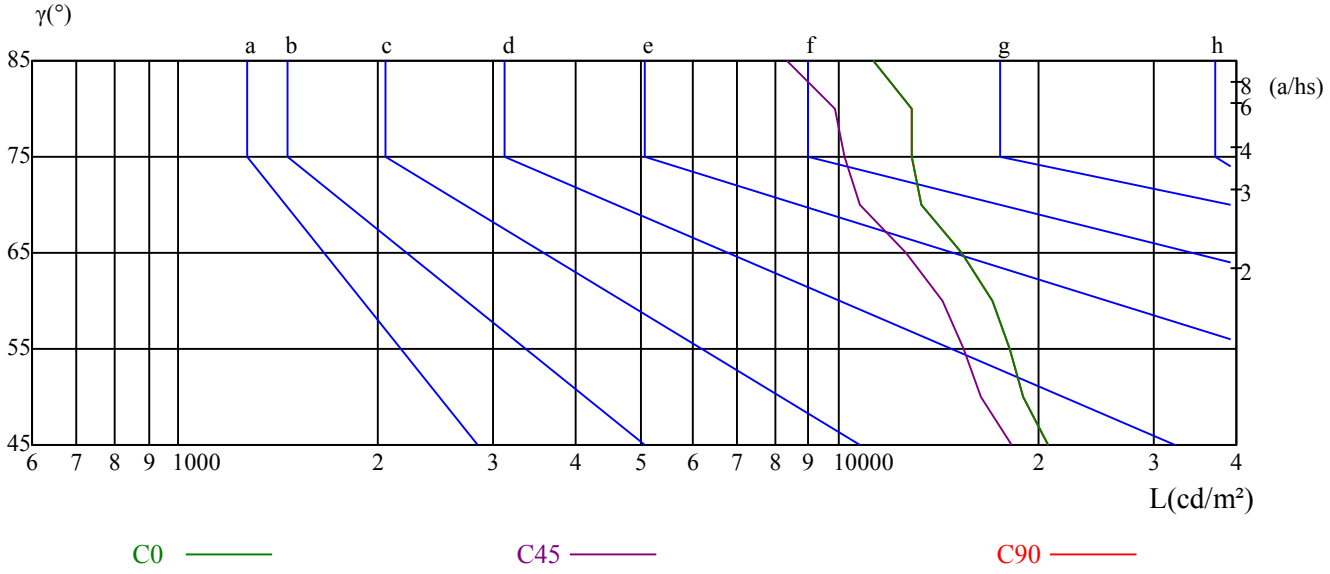
γ	45	50	55	60	65	70	75	80	85
C0	20779	18974	18127	17081	15310	13309	12918	12902	11288
C45	18258	16433	15459	14327	12608	10735	10175	9878	8346
C90	20779	18974	18127	17081	15310	13309	12918	12902	11288

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
31727	31727	31727	37025	37025	37025	75797	75797	75797

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

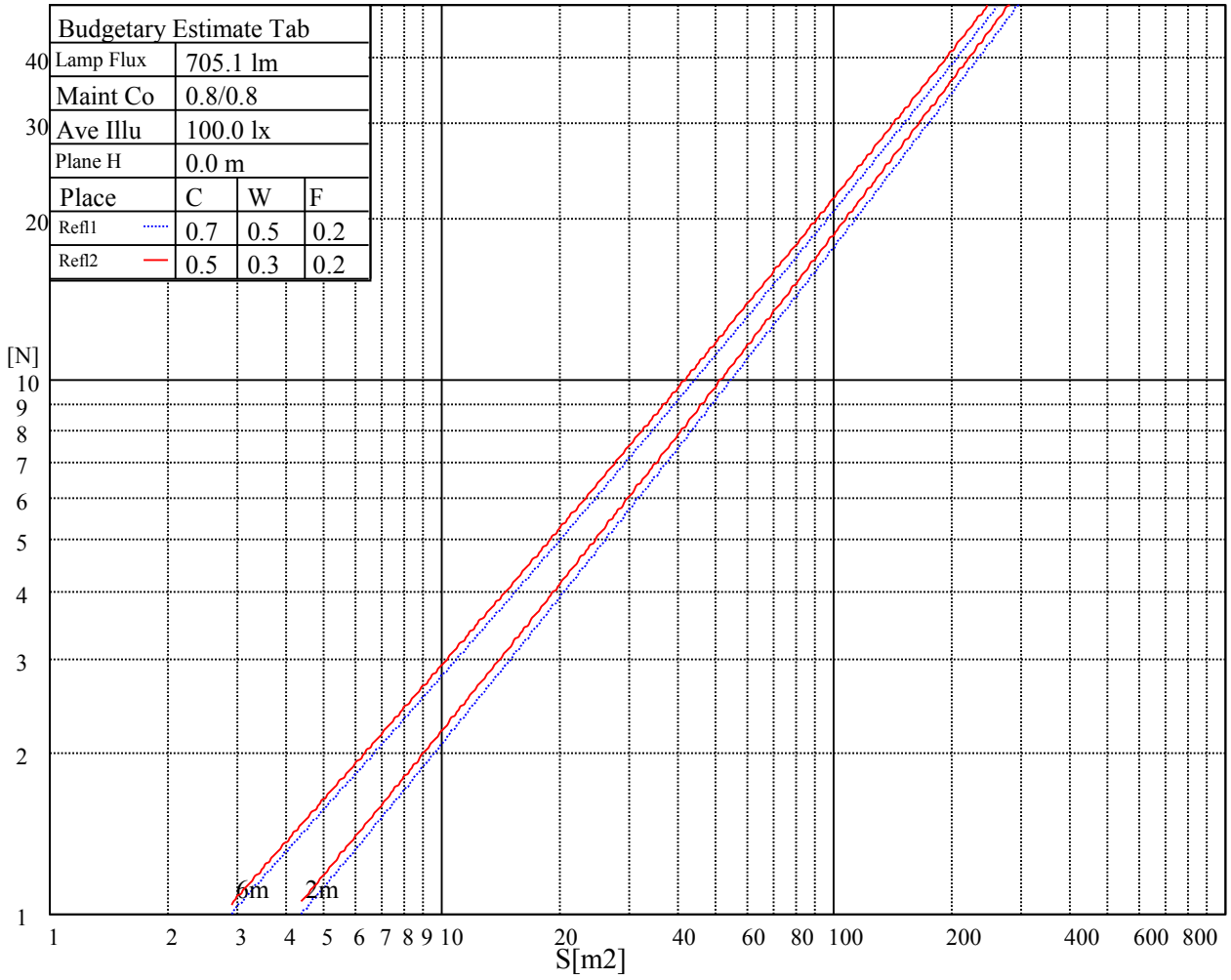
Luminance Limitting Curve



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	14.87	15.86	15.23	16.17	16.49	14.88	15.87	15.24	16.18	16.50
	3H	16.39	17.28	16.78	17.62	17.96	16.37	17.25	16.75	17.59	17.94
	4H	17.13	17.95	17.53	18.30	18.67	17.52	18.34	17.92	18.70	19.07
	6H	17.90	18.66	18.32	19.03	19.43	18.52	19.28	18.94	19.66	20.05
	8H	18.24	18.97	18.66	19.35	19.76	18.82	19.54	19.24	19.92	20.33
	12H	18.58	19.27	19.01	19.66	20.08	19.09	19.77	19.51	20.17	20.58
4H	2H	15.46	16.29	15.86	16.64	17.01	15.47	16.30	15.87	16.65	17.02
	3H	17.12	17.81	17.54	18.21	18.63	17.10	17.80	17.53	18.19	18.61
	4H	18.05	18.66	18.49	19.08	19.53	18.48	19.09	18.92	19.51	19.96
	6H	18.94	19.47	19.41	19.93	20.38	19.55	20.09	20.02	20.54	20.99
	8H	19.38	19.88	19.87	20.34	20.81	19.93	20.43	20.42	20.89	21.36
	12H	19.83	20.29	20.32	20.74	21.26	20.30	20.76	20.79	21.21	21.73
8H	4H	18.37	18.86	18.85	19.32	19.79	18.75	19.25	19.24	19.71	20.18
	6H	19.43	19.84	19.94	20.32	20.83	19.96	20.37	20.47	20.85	21.36
	8H	20.05	20.39	20.58	20.92	21.41	20.51	20.86	21.05	21.38	21.88
	12H	20.65	20.91	21.19	21.43	21.95	21.02	21.29	21.56	21.80	22.33
12H	4H	18.41	18.87	18.90	19.33	19.84	18.79	19.24	19.28	19.70	20.22
	6H	19.59	19.93	20.12	20.45	20.95	20.09	20.43	20.62	20.96	21.45
	8H	20.24	20.50	20.78	21.02	21.54	20.67	20.94	21.21	21.45	21.97
Variation with the observer position at spacings:											
S = 1.0H		0.3/-0.8					0.3/-0.8				
S = 1.5H		0.6/-0.8					0.6/-0.8				
S = 2.0H		0.4/-0.7					0.4/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		4.5					4.5				

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

Budgetary Estimate Table



Equipment: GMS1980
Temperature(°C): 25.0

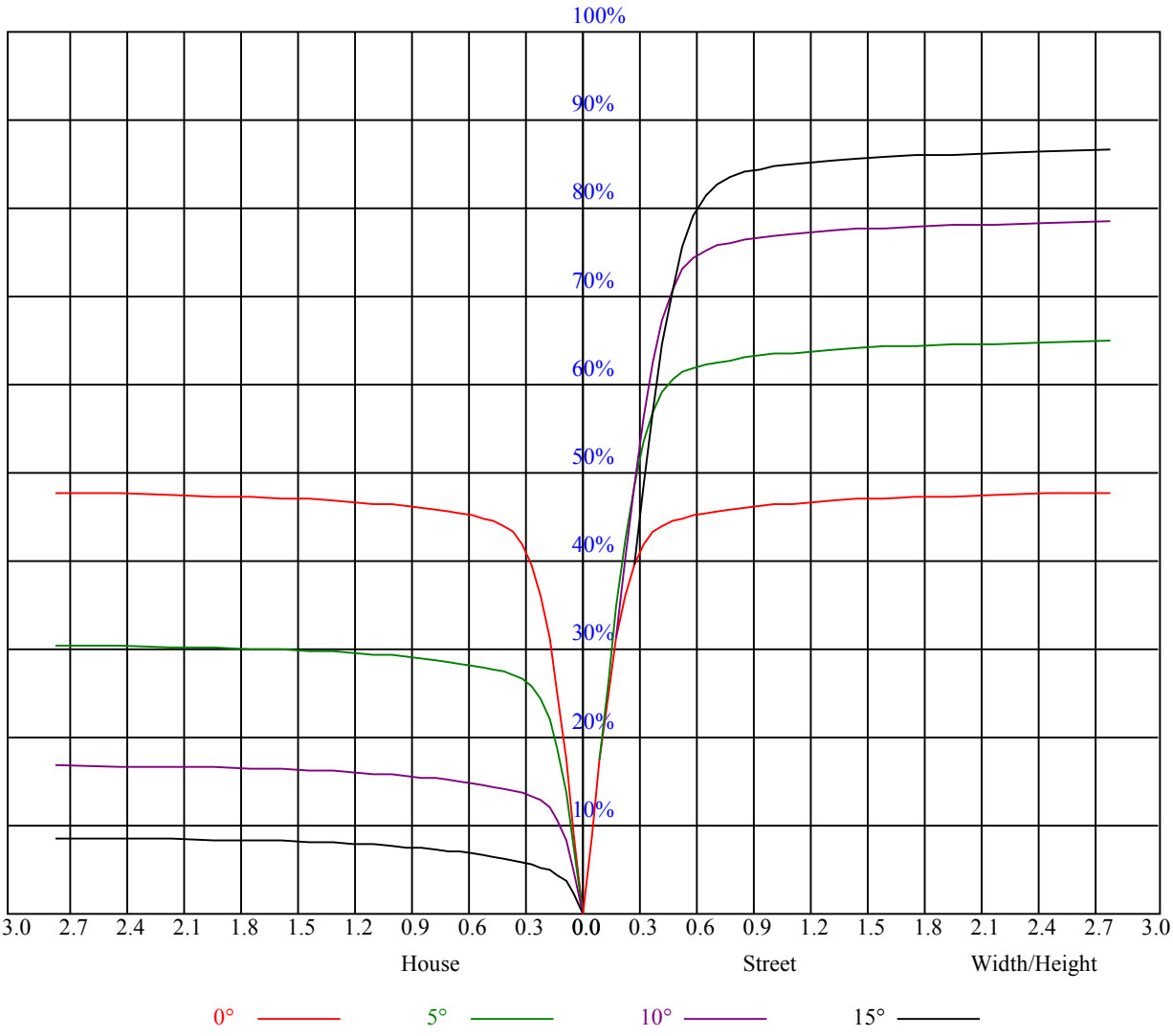
Date: 2025/2/12
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Utilization factor table for indoor luminaire

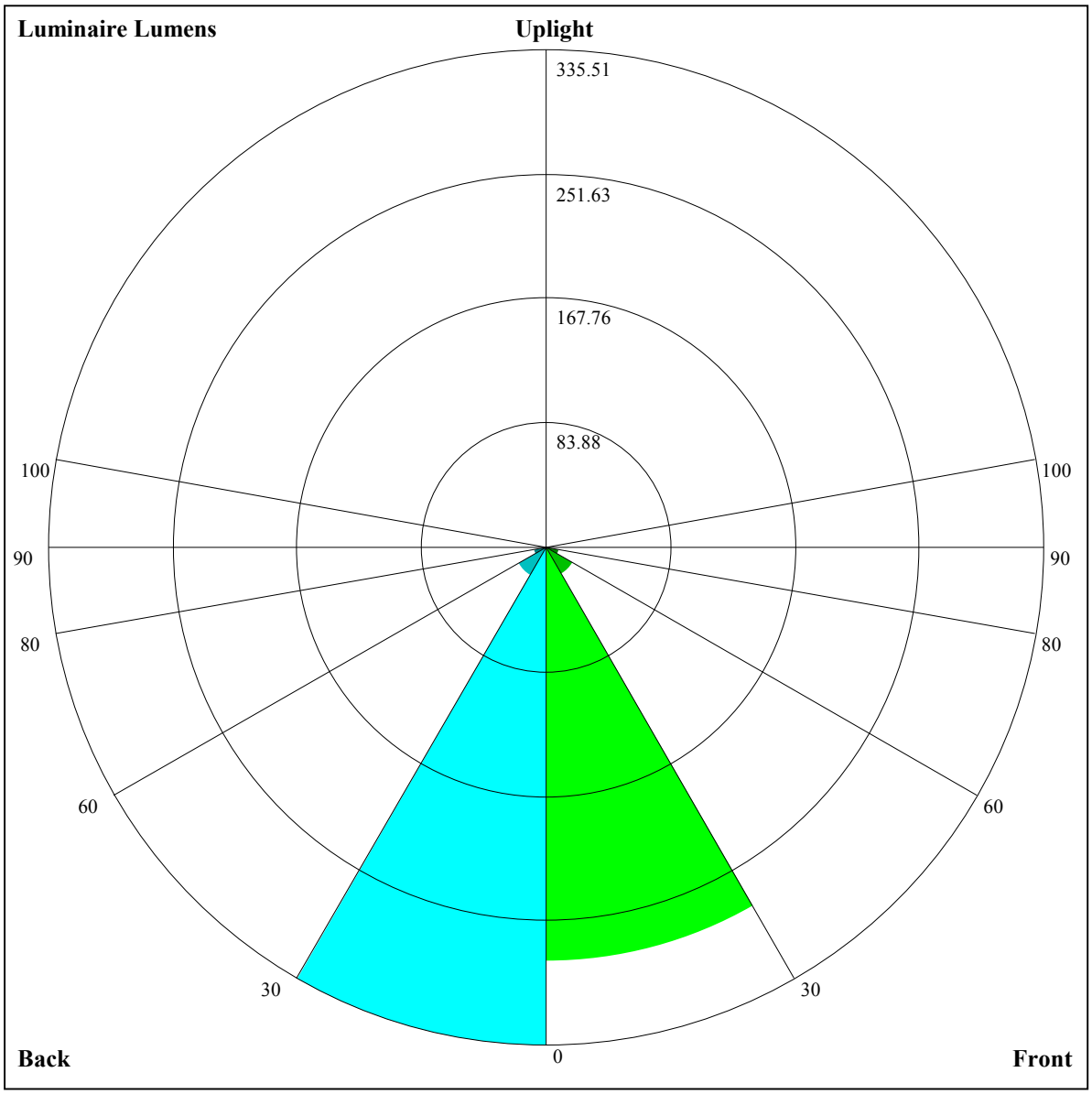
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.03	1.03	1.03	0.99	0.99	0.99	0.97
1	1.08	1.06	1.04	1.06	1.04	1.03	1.02	1.01	0.99	0.99	0.98	0.97	0.95	0.95	0.94	0.92
2	1.03	0.99	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	0.91	0.89	0.92	0.90	0.88	0.90	0.88	0.86	0.85
4	0.94	0.90	0.87	0.93	0.89	0.86	0.91	0.88	0.85	0.89	0.87	0.84	0.88	0.85	0.84	0.82
5	0.91	0.86	0.83	0.90	0.86	0.83	0.88	0.85	0.82	0.87	0.84	0.82	0.85	0.83	0.81	0.80
6	0.88	0.83	0.80	0.87	0.83	0.80	0.86	0.82	0.80	0.84	0.81	0.79	0.83	0.81	0.79	0.78
7	0.85	0.81	0.78	0.84	0.80	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.81	0.79	0.77	0.76
8	0.83	0.78	0.76	0.82	0.78	0.75	0.81	0.78	0.75	0.80	0.77	0.75	0.79	0.77	0.75	0.74
9	0.80	0.76	0.74	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.78	0.75	0.73	0.72
10	0.78	0.74	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.70

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2025/2/12	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

LCS Graph



Luminaire Lumens:

FL=279.59,FM=20.82,FH=9.02,FVH=2.87

BL=335.51,BM=21.79,BH=9.41,BVH=2.95

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	3276.73	3195.39	3091.80	2965.39	2782.22	2617.18	2401.82	2225.67	2041.32
45.0	3368.61	3322.97	3254.49	3164.37	3024.50	2892.83	2705.55	2541.11	2364.95
90.0	3333.50	3266.78	3150.32	3032.11	2899.85	2710.82	2546.37	2368.46	2177.10
135.0	3393.19	3363.35	3305.99	3197.14	3088.29	2964.81	2826.11	2635.33	2467.95
180.0	3276.73	3351.06	3387.34	3401.97	3393.19	3345.79	3277.32	3183.68	3036.79
225.0	3368.61	3391.44	3382.66	3351.64	3297.80	3200.07	3100.58	2982.37	2843.08
270.0	3333.50	3381.49	3392.61	3375.64	3317.11	3248.06	3161.44	3056.69	2898.68
315.0	3393.19	3394.36	3358.08	3303.65	3229.33	3112.29	2997.00	2827.28	2672.78
360.0	3276.73	3195.39	3091.80	2965.39	2782.22	2617.18	2401.82	2225.67	2041.32

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1799.63	1600.06	1148.04	1148.04	957.66	775.36	612.79	474.32	333.17
45.0	2125.01	1921.94	1712.43	1443.81	1226.10	1014.25	812.94	592.89	447.76
90.0	1970.51	1699.55	1146.92	1146.92	1041.12	785.96	608.05	459.46	312.69
135.0	2288.29	2046.01	1837.08	1619.38	1342.56	1127.20	922.37	694.14	538.47
180.0	2897.51	2746.52	2547.54	2371.39	2133.79	1939.49	1746.96	1549.73	1299.84
225.0	2647.03	2476.15	2253.17	2069.41	1880.39	1639.86	1158.45	1158.45	1065.11
270.0	2749.45	2589.09	2422.30	2203.43	2015.57	1826.55	1596.55	1408.70	1218.50
315.0	2506.58	2291.21	2110.97	1930.13	1745.78	1159.51	1159.51	1110.99	921.09
360.0	1799.63	1600.06	1148.04	1148.04	957.66	775.36	612.79	474.32	333.17

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	246.56	182.00	135.25	95.63	75.55	62.74	52.90	47.58	42.55
45.0	330.71	305.55	207.29	118.39	90.59	67.94	57.12	48.22	43.19
90.0	225.60	151.11	111.37	84.33	64.14	54.25	47.34	42.37	38.74
135.0	407.38	304.38	304.38	151.98	113.88	87.43	66.25	55.01	47.05
180.0	1107.89	922.96	746.81	553.10	424.93	321.93	299.69	209.74	122.78
225.0	838.74	670.55	520.50	393.33	268.03	194.29	140.92	103.58	73.68
270.0	985.58	805.33	595.23	445.41	326.61	301.45	301.45	102.77	76.43
315.0	697.88	537.35	403.28	296.01	196.40	139.63	100.78	71.51	58.23
360.0	246.56	182.00	135.25	95.63	75.55	62.74	52.90	47.58	42.55

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	39.33	36.64	34.35	31.72	29.96	28.15	26.63	24.93	23.76
45.0	39.68	36.87	33.94	31.89	30.14	28.62	26.86	25.52	24.29
90.0	35.05	32.83	31.02	28.85	27.45	26.22	25.05	23.64	22.41
135.0	40.38	36.75	33.30	31.37	29.61	28.09	26.39	25.22	24.05
180.0	88.43	70.40	58.35	47.93	42.19	38.27	35.17	32.19	30.20
225.0	59.34	50.33	43.07	39.21	35.64	33.36	31.54	29.96	28.21
270.0	59.87	50.86	43.95	40.20	37.34	34.47	32.71	30.67	29.09
315.0	48.69	44.13	40.38	37.45	34.59	32.66	30.78	29.14	27.15
360.0	39.33	36.64	34.35	31.72	29.96	28.15	26.63	24.93	23.76

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	22.65	21.59	20.42	19.66	18.73	18.02	17.50	16.80	16.33
45.0	23.17	21.95	21.13	20.13	19.55	18.96	18.26	17.67	17.21
90.0	21.48	20.60	19.78	18.90	18.26	17.79	17.21	16.62	16.27
135.0	23.06	21.83	20.89	20.13	19.49	18.67	18.08	17.50	17.03
180.0	28.56	27.04	25.40	24.29	23.17	22.00	21.13	20.37	19.43
225.0	26.98	25.81	24.64	23.35	22.36	21.48	20.31	19.61	18.96
270.0	27.86	26.22	24.93	23.70	22.65	21.48	20.60	19.84	19.08
315.0	25.87	24.58	23.17	22.24	21.30	20.25	19.49	18.84	18.14
360.0	22.65	21.59	20.42	19.66	18.73	18.02	17.50	16.80	16.33

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	15.86	15.51	15.10	14.86	14.63	14.46	14.28	14.16	13.99
45.0	16.68	16.27	15.86	15.51	15.16	14.92	14.75	14.51	14.34
90.0	15.92	15.57	15.10	14.86	14.57	14.40	14.28	14.05	13.87
135.0	16.68	16.27	15.86	15.51	15.10	14.81	14.63	14.46	14.22
180.0	18.79	18.08	17.56	17.09	16.68	16.21	15.80	15.45	15.22
225.0	18.20	17.67	17.21	16.74	16.33	15.98	15.45	15.10	14.81
270.0	18.43	17.67	17.15	16.56	16.21	15.80	15.39	15.04	14.75
315.0	17.67	17.21	16.68	16.27	15.92	15.51	15.04	14.75	14.46
360.0	15.86	15.51	15.10	14.86	14.63	14.46	14.28	14.16	13.99

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	13.69	13.46	13.23	12.76	12.35	11.88	11.41	11.00	10.59
45.0	14.16	13.93	13.58	13.28	12.87	12.47	12.06	11.59	11.06
90.0	13.69	13.52	13.17	12.82	12.47	12.06	11.59	11.18	10.77
135.0	14.05	13.87	13.69	13.34	13.05	12.70	12.17	11.76	11.18
180.0	14.92	14.69	14.51	14.40	14.16	13.99	13.69	13.40	13.05
225.0	14.51	14.22	14.05	13.87	13.64	13.46	13.17	12.87	12.52
270.0	14.40	14.10	13.87	13.69	13.46	13.28	13.05	12.87	12.64
315.0	14.22	13.99	13.75	13.52	13.34	13.11	12.82	12.52	12.17
360.0	13.69	13.46	13.23	12.76	12.35	11.88	11.41	11.00	10.59

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.12	9.71	9.36	9.01	8.66	8.25	7.96	7.55	7.37
45.0	10.71	10.30	9.89	9.48	9.01	8.60	8.25	7.84	7.49
90.0	10.24	9.83	9.42	8.90	8.54	8.08	7.72	7.43	7.20
135.0	10.77	10.36	9.95	9.42	9.07	8.66	8.31	7.84	7.49
180.0	12.64	12.23	11.76	11.35	10.83	10.42	10.01	9.60	9.13
225.0	12.17	11.65	11.29	10.89	10.48	9.95	9.54	9.13	8.78
270.0	12.35	12.00	11.53	11.12	10.65	10.30	9.95	9.48	9.07
315.0	11.82	11.29	10.89	10.48	10.12	9.66	9.25	8.90	8.43
360.0	10.12	9.71	9.36	9.01	8.66	8.25	7.96	7.55	7.37

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.26	7.02	6.85	6.67	6.50	6.38	6.14	5.91	5.62
45.0	7.26	7.08	6.96	7.08	7.08	6.61	6.20	5.97	5.85
90.0	7.02	7.72	9.01	10.01	9.89	9.19	8.02	6.44	5.91
135.0	7.20	7.02	6.85	6.67	6.44	6.26	6.09	5.91	5.74
180.0	8.72	8.43	7.96	7.72	7.43	7.26	7.08	6.96	6.67
225.0	8.31	7.96	7.61	7.26	7.08	6.91	6.67	6.61	6.32
270.0	8.78	8.37	8.02	7.55	7.32	7.14	7.14	9.48	11.59
315.0	8.08	7.67	7.37	7.14	6.96	6.73	6.55	6.38	6.20
360.0	7.26	7.02	6.85	6.67	6.50	6.38	6.14	5.91	5.62

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.44	5.21	5.09	4.92	4.74	4.45	4.39	4.10	3.04
45.0	5.68	5.50	5.33	5.21	5.09	4.68	4.51	4.39	3.80
90.0	5.62	5.33	5.15	4.86	4.56	4.45	4.21	3.57	2.93
135.0	5.62	5.38	5.21	5.03	4.68	4.39	4.21	4.04	2.93
180.0	6.50	6.26	6.09	5.85	5.62	5.38	5.27	4.92	4.62
225.0	6.09	5.97	5.85	5.62	5.38	5.27	4.97	4.56	4.33
270.0	11.76	10.18	7.61	6.44	5.97	5.74	5.44	4.92	4.56
315.0	5.97	5.85	5.68	5.56	5.38	5.21	5.09	4.74	4.51
360.0	5.44	5.21	5.09	4.92	4.74	4.45	4.39	4.10	3.04

Intensity data(cd)

C/γ(°)	90.0
0.0	2.98
45.0	2.98
90.0	2.93
135.0	2.93
180.0	4.33
225.0	4.21
270.0	4.39
315.0	4.39
360.0	2.98