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

NT

Client:
LumCAT: 2-2689-L
Luminaire: 92.70.412.00
Report No: 2024322-B025
Ballast type: AC

Test No: 2024322-C025	Voltage(V): 34.760
LampCAT: Fortimo_SLM_C_1208	Current(A): 0.577
Lamp flux(lm): 3486.0	Power (W): 20.056
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2886.51, Efficiency(%): 82.80% , Luminous Efficacy(lm/W): 143.92
Central intensity(cd): 5262.256, Maximum intensity(cd): 5262.256
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=44.0
[C90/270]Total=44.0
Field angle(10%Imax): [C0/180]Total=67.2
[C90/270]Total=67.2
Maximum s/h(1/2): C0_180=0.70 C90_270=0.70
Maximum s/h(1/4): C0_180=0.69 C90_270=0.69
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.80%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.934%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5262.255	0.000	0	0.00%	0.00%
1.0	5259.841	5.035	5.035	0.14%	0.17%
2.0	5248.942	15.083	20.118	0.43%	0.70%
3.0	5232.482	25.068	45.186	0.72%	1.57%
4.0	5200.734	34.923	80.109	1.00%	2.78%
5.0	5158.963	44.567	124.676	1.28%	4.32%
6.0	5092.833	53.876	178.552	1.55%	6.19%
7.0	5016.315	62.747	241.299	1.80%	8.36%
8.0	4923.264	71.136	312.435	2.04%	10.82%
9.0	4820.045	78.964	391.399	2.27%	13.56%
10.0	4691.588	86.077	477.476	2.47%	16.54%
11.0	4558.303	92.425	569.901	2.65%	19.74%
12.0	4405.486	97.987	667.889	2.81%	23.14%
13.0	4236.429	102.558	770.446	2.94%	26.69%
14.0	4073.078	106.361	876.807	3.05%	30.38%
15.0	3903.582	109.507	986.314	3.14%	34.17%
16.0	3723.553	111.759	1098.073	3.21%	38.04%
17.0	3560.421	113.431	1211.504	3.25%	41.97%
18.0	3388.292	114.569	1326.074	3.29%	45.94%
19.0	3207.384	114.751	1440.825	3.29%	49.92%
20.0	3010.822	113.810	1554.635	3.26%	53.86%
21.0	2828.670	112.130	1666.765	3.22%	57.74%
22.0	2634.815	109.791	1776.556	3.15%	61.55%
23.0	2444.031	106.568	1883.124	3.06%	65.24%
24.0	2250.102	102.631	1985.755	2.94%	68.79%
25.0	2051.053	97.799	2083.554	2.81%	72.18%
26.0	1858.879	92.294	2175.848	2.65%	75.38%
27.0	1555.806	83.541	2259.389	2.40%	78.27%
28.0	1358.966	73.796	2333.185	2.12%	80.83%
29.0	1244.218	68.107	2401.292	1.95%	83.19%
30.0	1075.249	62.625	2463.917	1.80%	85.36%
31.0	889.857	54.686	2518.603	1.57%	87.25%
32.0	737.888	46.633	2565.236	1.34%	88.87%
33.0	590.894	39.146	2604.382	1.12%	90.23%
34.0	474.376	32.238	2636.62	0.92%	91.34%
35.0	376.731	26.432	2663.053	0.76%	92.26%
36.0	297.031	21.453	2684.505	0.62%	93.00%
37.0	251.830	17.901	2702.406	0.51%	93.62%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	214.229	15.556	2717.963	0.45%	94.16%
39.0	148.998	12.398	2730.36	0.36%	94.59%
40.0	117.162	9.283	2739.643	0.27%	94.91%
41.0	98.025	7.663	2747.306	0.22%	95.18%
42.0	85.121	6.654	2753.96	0.19%	95.41%
43.0	75.940	5.966	2759.926	0.17%	95.61%
44.0	69.166	5.477	2765.403	0.16%	95.80%
45.0	63.731	5.107	2770.51	0.15%	95.98%
46.0	59.978	4.838	2775.348	0.14%	96.15%
47.0	56.533	4.634	2779.982	0.13%	96.31%
48.0	53.482	4.447	2784.43	0.13%	96.46%
49.0	50.644	4.276	2788.706	0.12%	96.61%
50.0	48.186	4.121	2792.826	0.12%	96.75%
51.0	45.882	3.980	2796.806	0.11%	96.89%
52.0	43.658	3.842	2800.648	0.11%	97.03%
53.0	41.514	3.705	2804.353	0.11%	97.15%
54.0	39.525	3.572	2807.925	0.10%	97.28%
55.0	37.806	3.452	2811.377	0.10%	97.40%
56.0	35.947	3.333	2814.71	0.10%	97.51%
57.0	34.265	3.210	2817.92	0.09%	97.62%
58.0	32.641	3.094	2821.014	0.09%	97.73%
59.0	31.149	2.982	2823.996	0.09%	97.83%
60.0	29.612	2.871	2826.867	0.08%	97.93%
61.0	28.062	2.752	2829.619	0.08%	98.03%
62.0	26.584	2.633	2832.252	0.08%	98.12%
63.0	25.128	2.515	2834.767	0.07%	98.21%
64.0	23.687	2.395	2837.162	0.07%	98.29%
65.0	22.524	2.287	2839.449	0.07%	98.37%
66.0	21.617	2.202	2841.652	0.06%	98.45%
67.0	21.017	2.144	2843.795	0.06%	98.52%
68.0	20.695	2.113	2845.908	0.06%	98.59%
69.0	20.644	2.109	2848.017	0.06%	98.67%
70.0	20.732	2.125	2850.142	0.06%	98.74%
71.0	20.834	2.148	2852.291	0.06%	98.81%
72.0	20.666	2.158	2854.448	0.06%	98.89%
73.0	20.380	2.146	2856.595	0.06%	98.96%
74.0	20.110	2.129	2858.724	0.06%	99.04%
75.0	19.949	2.117	2860.84	0.06%	99.11%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	19.671	2.103	2862.943	0.06%	99.18%
77.0	19.232	2.074	2865.017	0.06%	99.26%
78.0	18.800	2.036	2867.053	0.06%	99.33%
79.0	18.332	1.995	2869.048	0.06%	99.40%
80.0	17.623	1.938	2870.987	0.06%	99.46%
81.0	16.730	1.858	2872.845	0.05%	99.53%
82.0	16.116	1.781	2874.626	0.05%	99.59%
83.0	15.472	1.717	2876.343	0.05%	99.65%
84.0	14.726	1.645	2877.988	0.05%	99.70%
85.0	13.921	1.563	2879.551	0.04%	99.76%
86.0	13.211	1.483	2881.035	0.04%	99.81%
87.0	12.729	1.420	2882.454	0.04%	99.86%
88.0	12.429	1.378	2883.832	0.04%	99.91%
89.0	12.173	1.348	2885.181	0.04%	99.95%
90.0	12.070	1.329	2886.51	0.04%	100.00%

Zonal flux distribution table

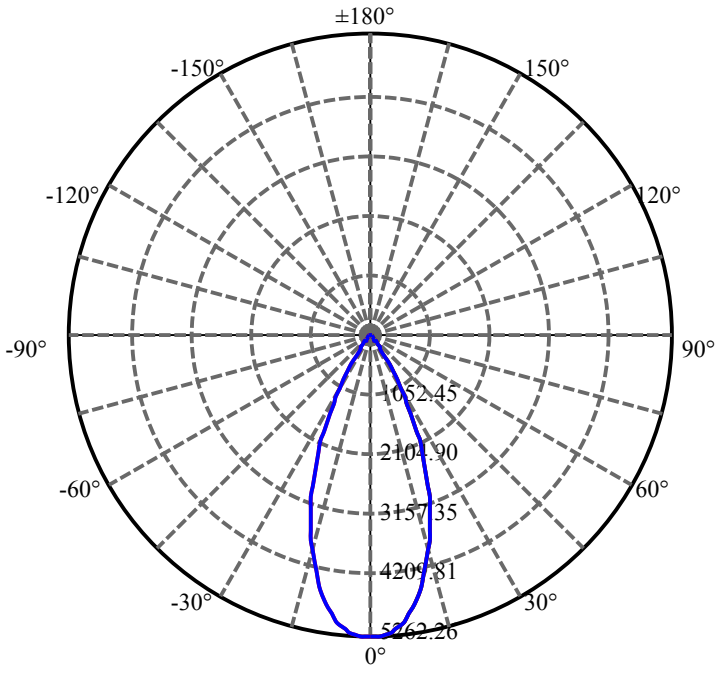
ZONAL LUMEN SUMMARY

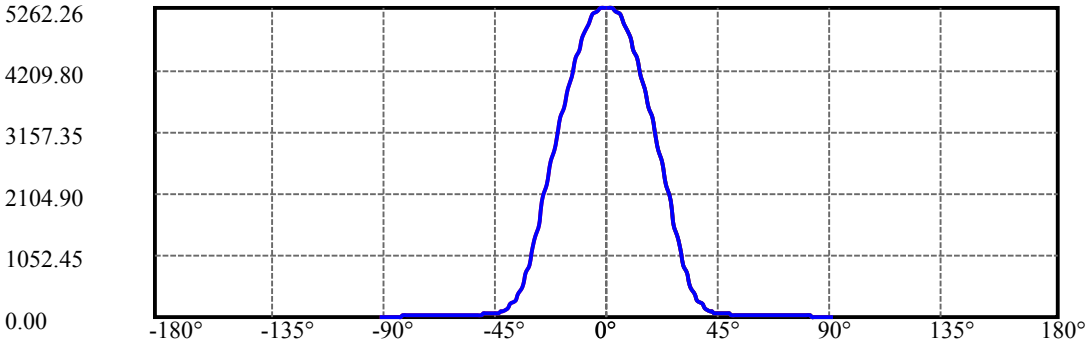
Zone	Lumens	%Lamp	%Fixt
0-30	2463.92	70.68%	85.36%
0-40	2739.64	78.59%	94.91%
0-60	2826.87	81.09%	97.93%
0-90	2885.18	82.76%	99.95%
0-120	2885.18	82.76%	99.95%
0-180	2886.51	82.80%	100.00%
60-90	58.31	1.67%	2.02%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.68	2309.21	66.24%	80.00%

ZONAL LUMEN SUMMARY

0-10	477.48
10-20	1077.16
20-30	909.28
30-40	275.73
40-50	53.18
50-60	34.04
60-70	23.28
70-80	20.84
80-90	14.19
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):

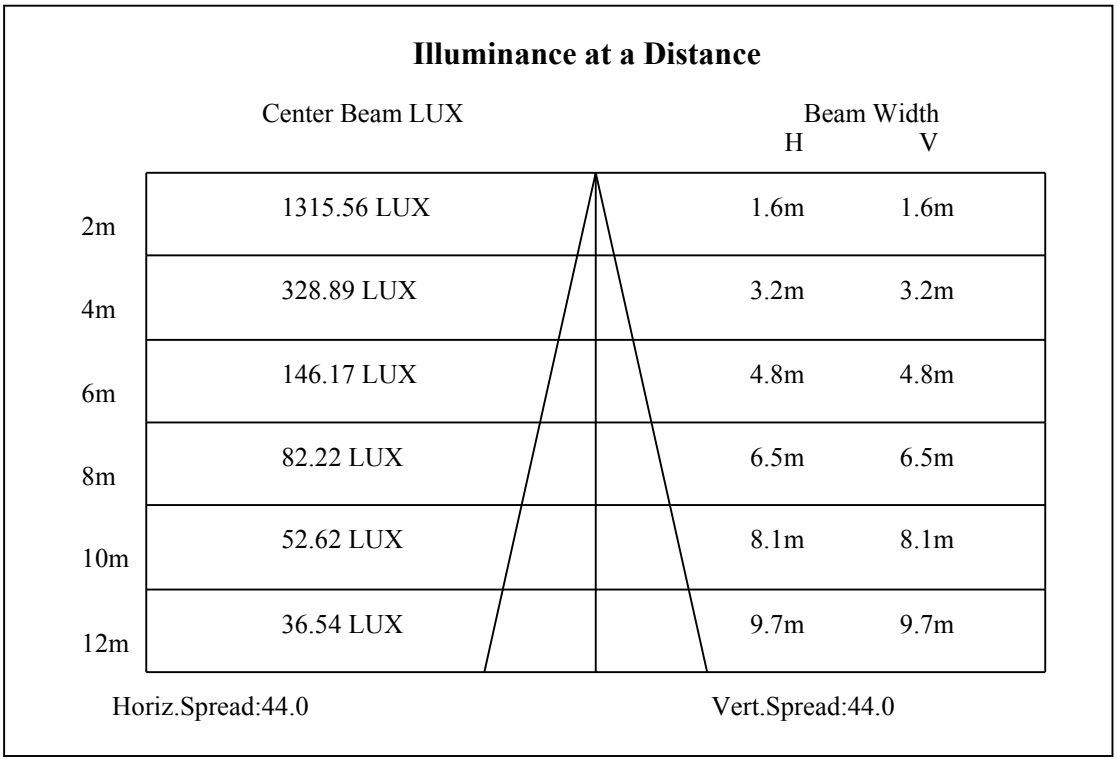
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:33.6 Right:33.6
:C90/270Left:33.6 Right:33.6

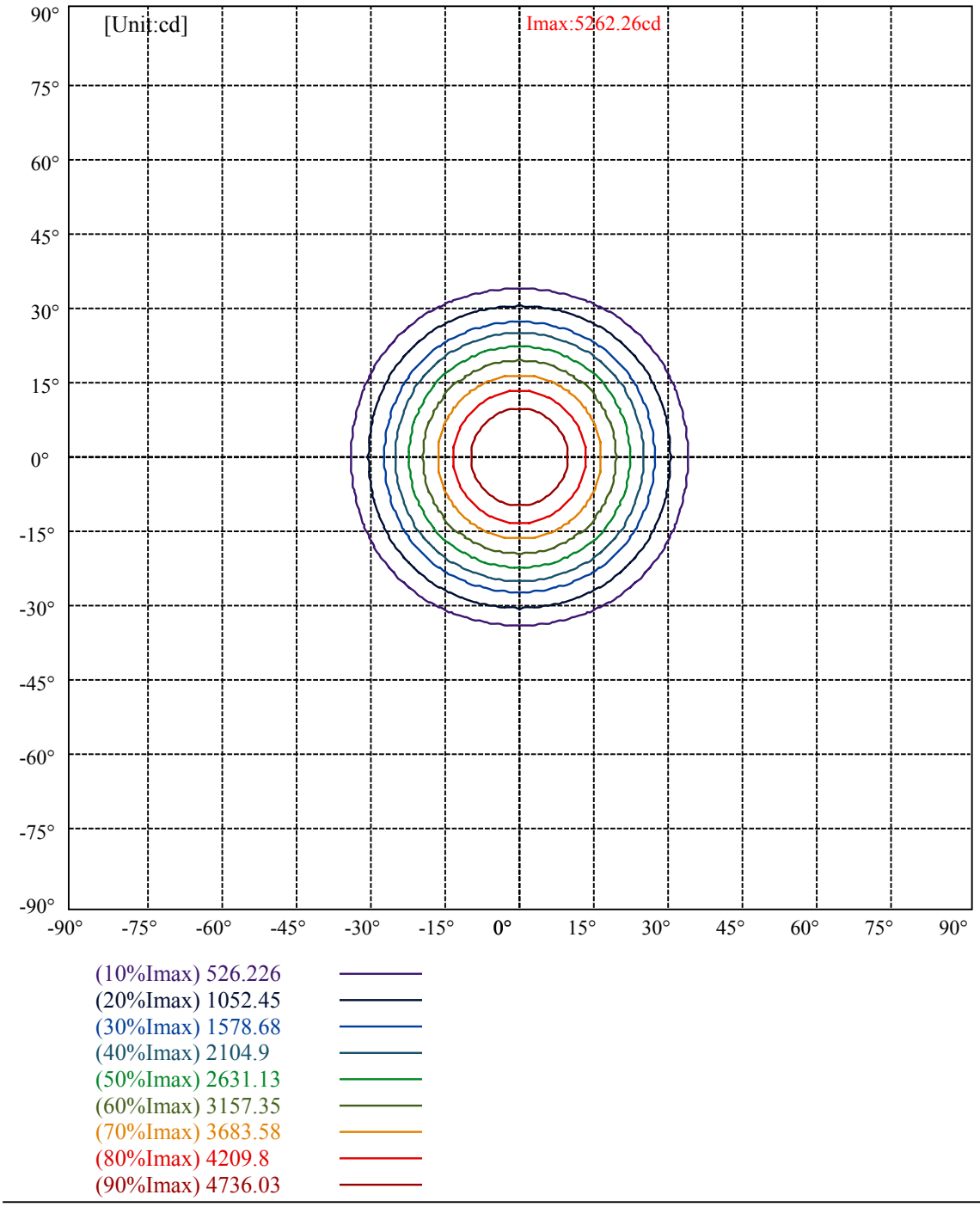
Beam Angle(50%Imax):C0/180Left:22.0 Right:22.0
:C90/270Left:22.0 Right:22.0

Lux distance Curve



Equipment: GMS1980 Date: 2024/3/22 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

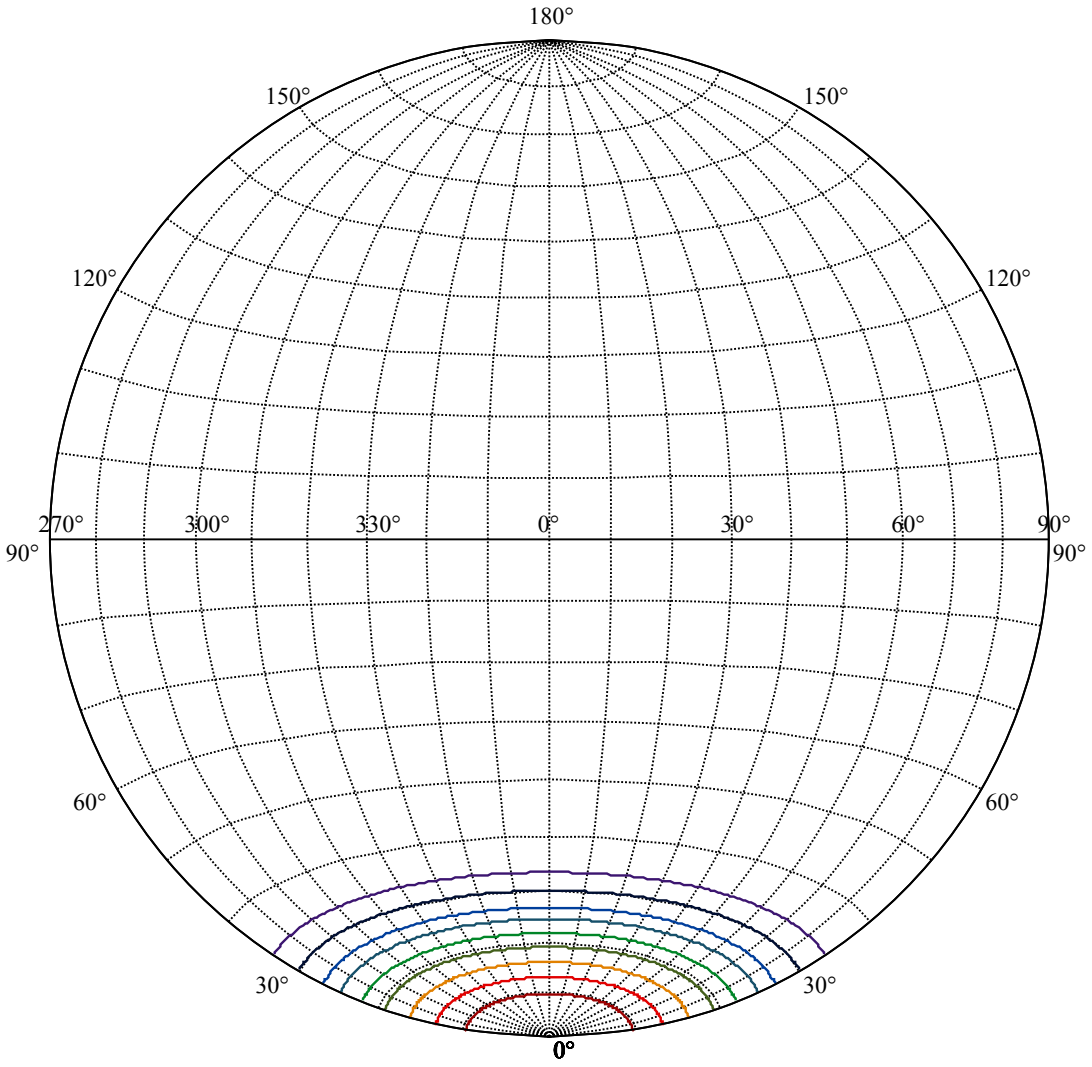


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/22
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



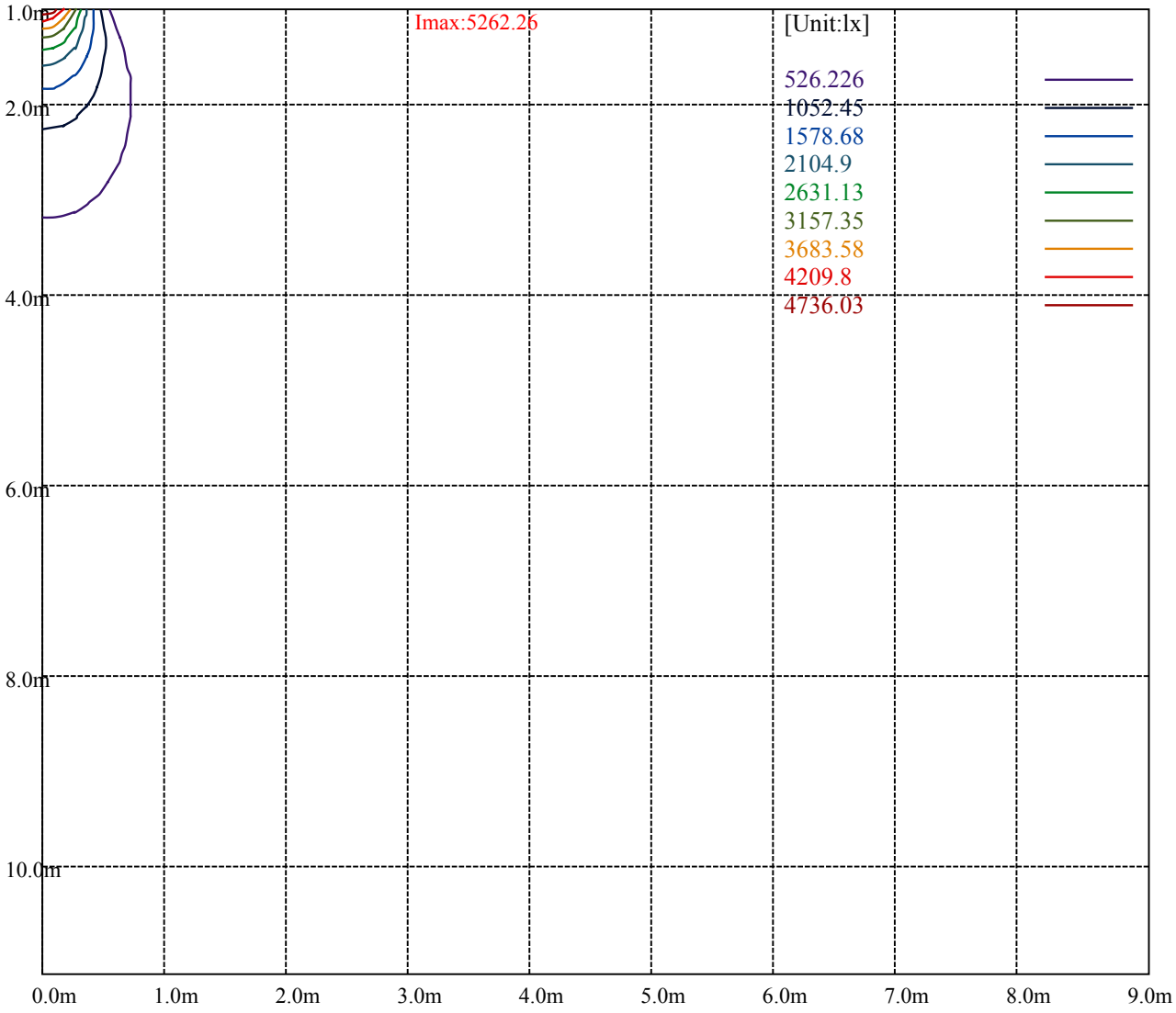
[Unit:cd]

Imax:5262.26

(10%Imax) 526.226
(20%Imax) 1052.45
(30%Imax) 1578.68
(40%Imax) 2104.9
(50%Imax) 2631.13
(60%Imax) 3157.35
(70%Imax) 3683.58
(80%Imax) 4209.8
(90%Imax) 4736.03

Equipment: GMS1980	Date: 2024/3/22	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/22
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 2-2689-L

Luminance Limitting Curve(no luminous side)

Luminance Table

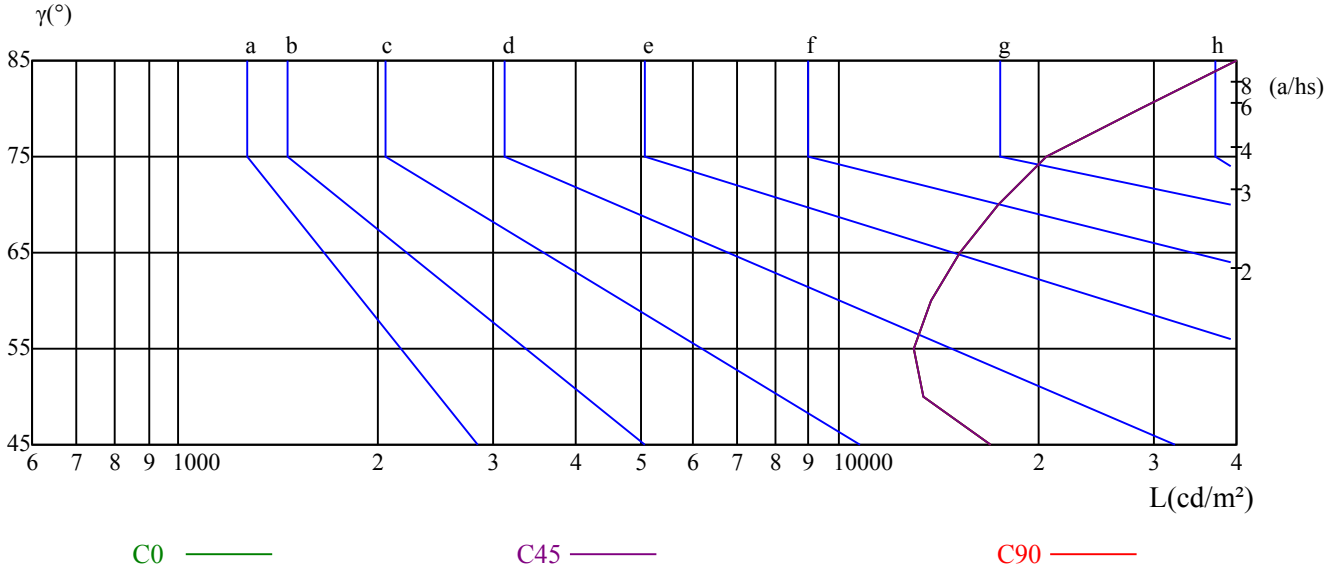
γ	45	50	55	60	65	70	75	80	85
C0	16916	13424	12973	13807	15255	17397	20571	28543	54228
C45	16916	13424	12973	13807	15255	17397	20571	28543	54228
C90	16916	13424	12973	13807	15255	17397	20571	28543	54228

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
15255	15255	15255	20571	20571	20571	54228	54228	54228

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

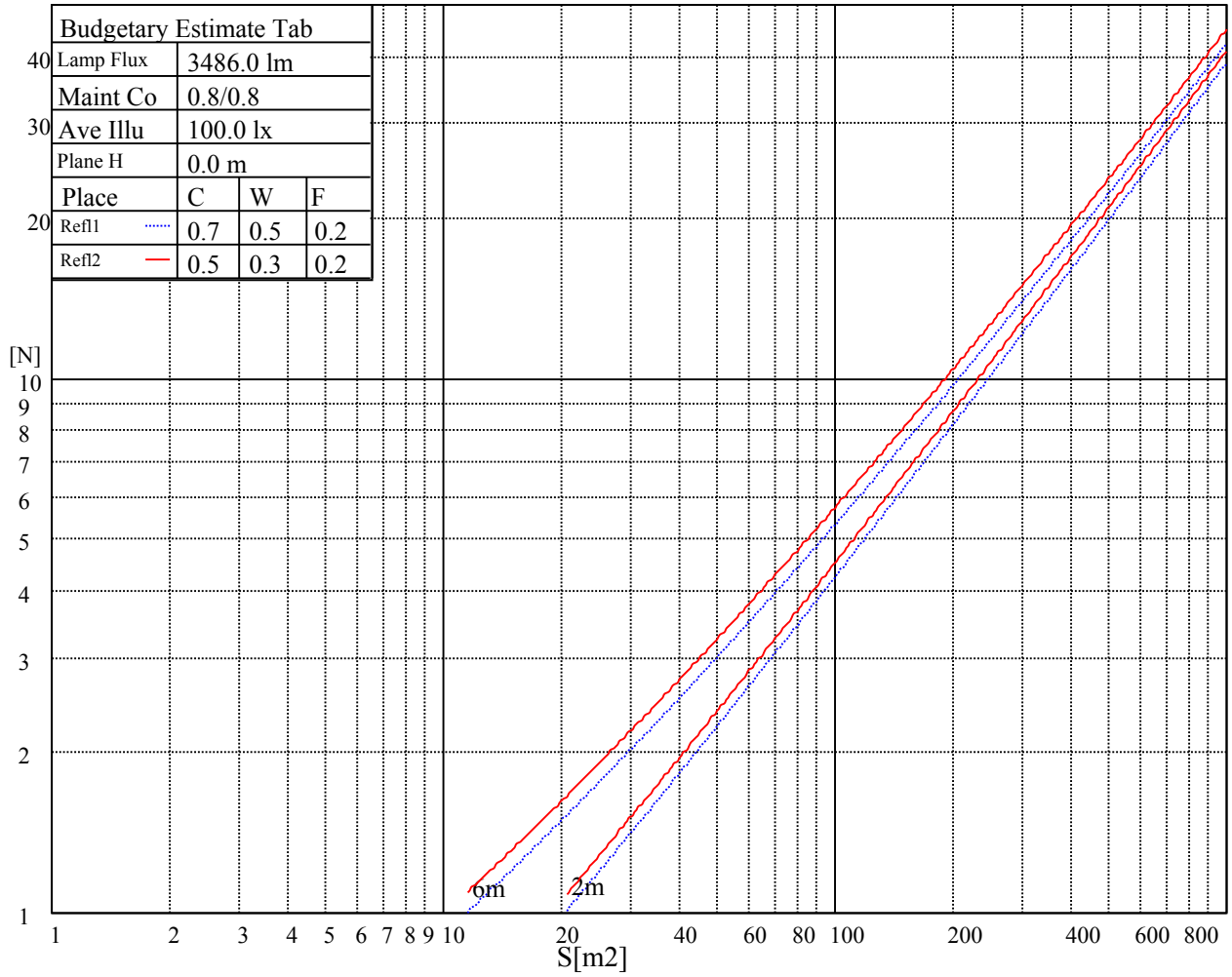
Date: 2024/3/22
Humidity(%): 60.0%

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	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H 2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H 4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H 4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
Variation with the observer position at spacings:										
S = 1.0H	非数字/非数字					非数字/非数字				
S = 1.5H	非数字/非数字					非数字/非数字				
S = 2.0H	非数字/非数字					非数字/非数字				
Standard tables:	BK0					BK0				
Uncorrected UGR	负无穷大					负无穷大				

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

Budgetary Estimate Table

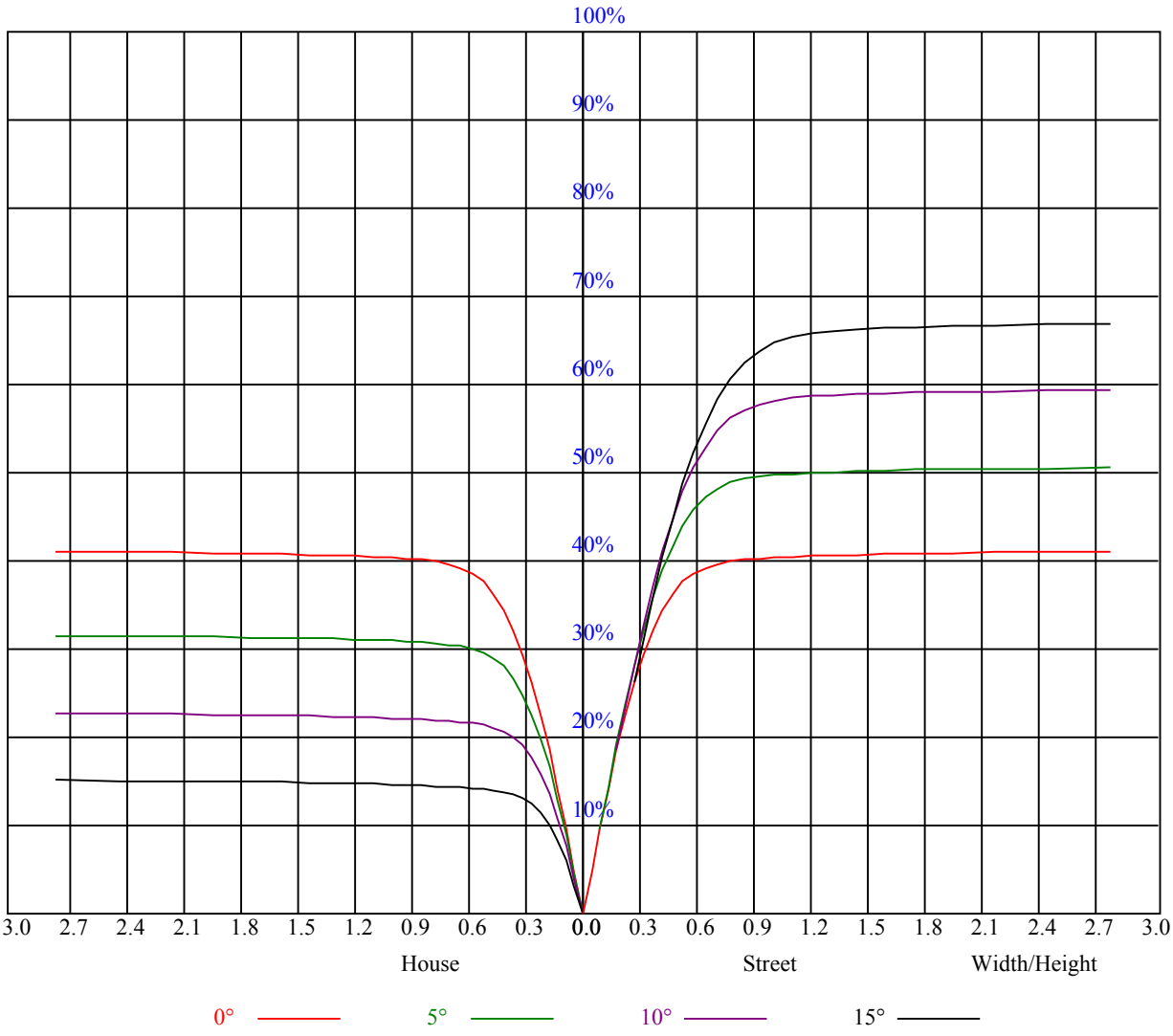


Equipment: GMS1980 Date: 2024/3/22 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

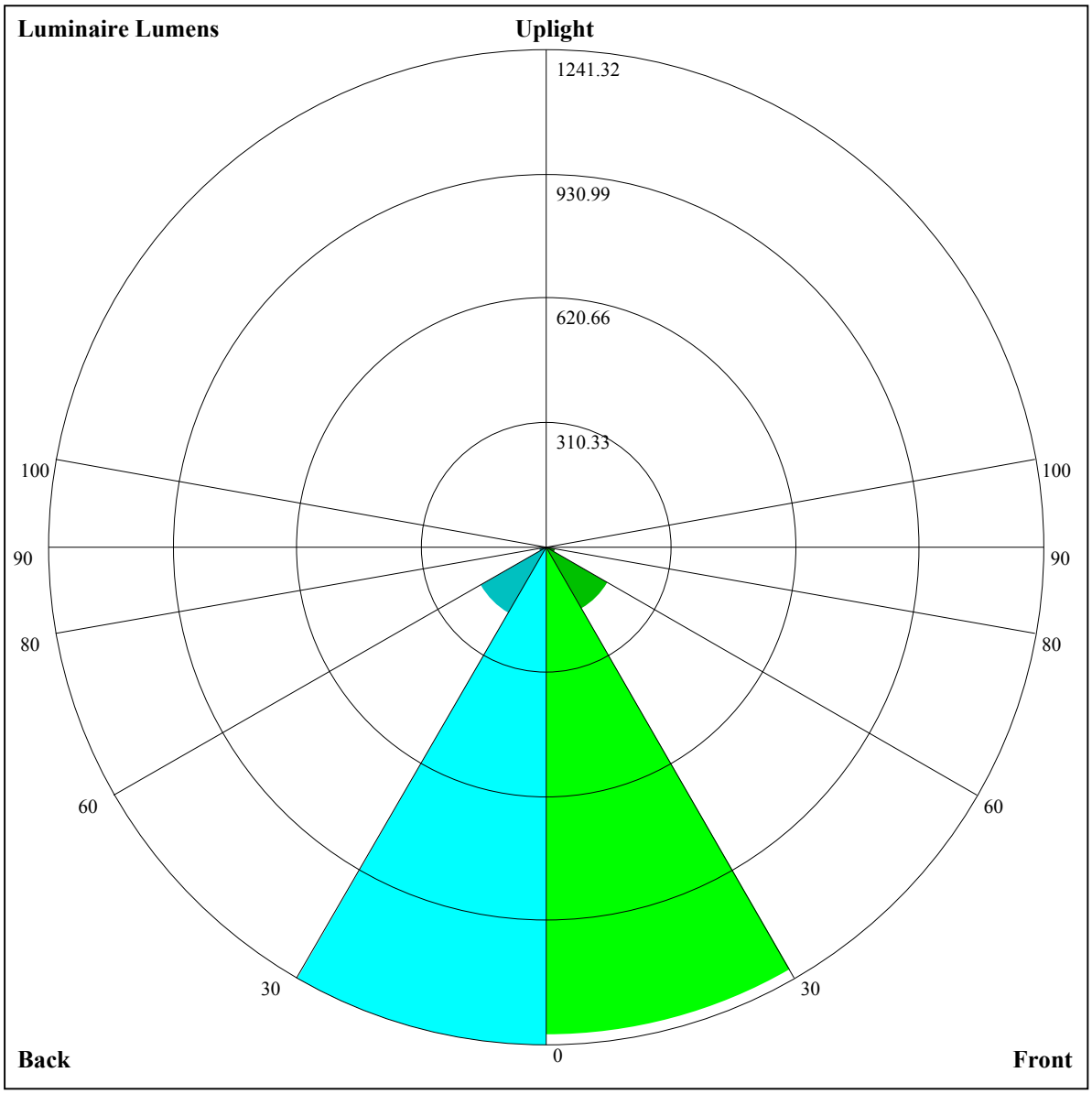
Utilization factor table for indoor luminaire

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	0.99	0.99	0.99	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.83
1	0.92	0.90	0.88	0.90	0.88	0.87	0.87	0.85	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.78
2	0.86	0.83	0.81	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.75	0.73
3	0.81	0.77	0.74	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.70	0.69
4	0.77	0.73	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.67	0.71	0.69	0.67	0.66
5	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
6	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
7	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.57	0.62	0.59	0.57	0.56
8	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.54
9	0.60	0.56	0.53	0.60	0.55	0.53	0.59	0.55	0.52	0.58	0.55	0.52	0.57	0.54	0.52	0.51
10	0.57	0.53	0.50	0.57	0.53	0.50	0.56	0.53	0.50	0.56	0.52	0.50	0.55	0.52	0.50	0.49

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/3/22	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1215.51,FM=178.89,FH=22.64,FVH=7.81
BL=1241.32,BM=189.35,BH=21.18,BVH=7.75
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	5271.18	5265.91	5251.87	5229.04	5181.64	5127.80	5056.99	4975.64	4857.43
45.0	5262.40	5268.84	5268.25	5260.65	5238.41	5207.39	5165.25	5103.81	5011.34
90.0	5262.99	5265.91	5260.06	5248.94	5217.34	5171.69	5109.07	5017.78	4931.75
135.0	5252.45	5255.96	5254.79	5250.70	5240.75	5222.61	5180.47	5127.21	5040.60
180.0	5271.18	5268.84	5262.40	5250.11	5226.70	5199.20	5140.67	5079.81	5002.56
225.0	5262.40	5249.53	5229.04	5205.05	5161.74	5106.15	5018.95	4939.94	4848.65
270.0	5262.99	5258.89	5245.43	5226.70	5196.27	5155.31	5091.52	4999.05	4915.36
315.0	5252.45	5244.84	5219.68	5188.66	5143.02	5081.57	4979.74	4887.27	4778.42
360.0	5271.18	5265.91	5251.87	5229.04	5181.64	5127.80	5056.99	4975.64	4857.43

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4750.33	4625.68	4453.04	4307.31	4113.02	3950.91	3794.66	3596.27	3441.18
45.0	4920.63	4817.63	4700.00	4540.23	4400.37	4251.13	4052.74	3891.22	3734.38
90.0	4830.51	4686.54	4555.45	4413.83	4264.59	4069.71	3908.19	3753.69	3597.44
135.0	4959.26	4859.18	4748.57	4590.56	4448.94	4295.61	4132.33	3926.33	3760.13
180.0	4913.61	4790.13	4668.40	4536.14	4354.72	4197.29	4037.53	3874.25	3677.03
225.0	4738.63	4578.27	4435.48	4283.32	4085.51	3917.55	3757.79	3556.47	3393.78
270.0	4816.46	4674.84	4539.65	4392.17	4200.22	4035.77	3871.32	3672.93	3521.94
315.0	4630.94	4500.44	4365.84	4180.32	4024.07	3866.64	3674.10	3517.26	3357.49
360.0	4750.33	4625.68	4453.04	4307.31	4113.02	3950.91	3794.66	3596.27	3441.18

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3279.66	3107.60	2934.96	2713.16	2537.59	2357.34	2174.17	1942.42	1753.98
45.0	3538.33	3377.98	3173.15	3001.09	2821.43	2645.28	2423.48	2238.54	2051.27
90.0	3399.63	3234.60	3016.89	2839.57	2660.49	2436.94	2254.93	2070.58	1883.90
135.0	3602.12	3447.03	3239.28	3067.81	2846.01	2669.27	2493.70	2270.73	2080.53
180.0	3516.68	3337.01	3122.23	2939.64	2695.60	2528.82	2335.69	2166.56	1935.40
225.0	3221.72	2998.75	2823.18	2648.79	2470.88	2247.91	2067.66	1885.65	1700.14
270.0	3359.84	3181.93	2977.68	2800.95	2604.31	2445.13	2212.79	2027.86	1844.69
315.0	3188.36	2974.17	2799.19	2618.36	2442.20	2221.57	2038.40	1806.06	1621.13
360.0	3279.66	3107.60	2934.96	2713.16	2537.59	2357.34	2174.17	1942.42	1753.98

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1371.24	1149.62	1149.62	981.60	791.75	652.00	500.43	401.46	321.05
45.0	1861.07	1622.89	1435.62	1251.27	1033.57	875.56	728.66	565.97	456.53
90.0	1646.88	1138.85	1138.85	1095.48	891.88	742.07	607.05	488.08	369.75
135.0	1892.68	1655.07	1467.22	1281.12	1103.79	899.55	750.90	614.54	496.33
180.0	1747.54	1563.78	1376.51	1147.68	980.31	825.23	647.32	524.42	423.18
225.0	1149.73	1149.73	1106.95	941.80	753.59	617.06	472.39	378.82	303.21
270.0	1612.94	1427.42	1244.83	1028.30	870.29	726.32	564.80	455.36	365.82
315.0	1164.36	1164.36	1034.15	874.74	693.67	565.33	455.60	366.35	277.98
360.0	1371.24	1149.62	1149.62	981.60	791.75	652.00	500.43	401.46	321.05

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	255.98	193.48	155.08	126.35	105.98	88.49	78.95	71.98	66.54
45.0	367.58	310.81	310.81	171.88	139.23	110.90	95.33	84.39	76.14
90.0	295.48	236.49	178.20	143.15	113.36	96.80	85.03	76.37	68.59
135.0	375.77	299.69	299.69	225.43	141.16	116.81	95.68	83.80	75.14
180.0	320.18	302.62	302.62	152.74	124.54	104.29	90.12	77.83	70.81
225.0	229.12	183.47	148.41	116.69	98.84	86.38	77.48	69.35	64.49
270.0	309.64	309.64	174.63	141.74	117.10	95.45	83.98	75.61	68.06
315.0	222.50	178.44	144.38	114.00	97.09	85.09	74.38	68.18	63.56
360.0	255.98	193.48	155.08	126.35	105.98	88.49	78.95	71.98	66.54

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	61.39	58.17	55.25	51.97	49.63	46.88	44.83	42.90	41.14
45.0	68.65	64.14	60.51	57.41	53.78	51.21	48.34	46.35	44.36
90.0	63.91	60.22	57.06	53.61	50.91	48.57	46.41	43.89	41.96
135.0	67.07	62.50	58.99	55.95	52.49	50.04	47.81	45.59	42.96
180.0	65.60	61.62	57.64	54.78	52.09	49.69	46.94	44.77	42.19
225.0	60.63	57.35	53.78	51.15	48.81	46.06	43.95	41.38	39.44
270.0	63.56	59.93	56.06	53.31	50.10	47.75	45.47	43.37	40.79
315.0	59.05	55.89	52.96	49.69	47.34	45.30	43.31	41.02	39.27
360.0	61.39	58.17	55.25	51.97	49.63	46.88	44.83	42.90	41.14

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	39.03	37.40	35.82	34.24	32.42	30.96	29.50	27.74	26.39
45.0	41.96	40.20	38.45	36.75	34.70	33.12	31.66	30.14	28.32
90.0	39.80	38.10	36.40	34.47	33.07	31.60	29.85	28.32	26.80
135.0	40.91	39.09	36.99	35.35	33.42	32.01	30.67	29.26	27.51
180.0	40.32	38.45	36.23	34.53	32.95	31.54	29.73	28.38	27.04
225.0	37.69	35.99	33.94	32.48	31.08	29.73	28.09	26.74	25.40
270.0	38.98	37.34	35.87	34.00	32.66	31.19	29.79	27.97	26.57
315.0	37.51	35.87	33.88	32.30	30.84	29.03	27.62	25.93	24.64
360.0	39.03	37.40	35.82	34.24	32.42	30.96	29.50	27.74	26.39

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.11	23.41	22.59	21.83	21.24	20.95	21.42	22.82	24.29
45.0	26.92	25.57	23.88	22.94	22.59	22.82	23.47	25.11	26.74
90.0	25.52	23.76	22.59	21.71	21.07	20.48	20.01	19.66	19.31
135.0	26.10	24.76	23.41	21.95	21.13	20.48	19.90	19.43	19.08
180.0	25.69	23.99	22.71	21.71	20.83	20.31	19.84	19.31	18.96
225.0	23.70	22.47	21.59	20.83	20.42	20.54	21.30	21.13	20.48
270.0	24.76	23.41	22.24	21.30	20.66	20.19	19.78	19.31	19.02
315.0	23.23	22.12	21.19	20.66	20.19	19.78	19.43	19.08	18.79
360.0	25.11	23.41	22.59	21.83	21.24	20.95	21.42	22.82	24.29

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	24.64	24.81	25.28	25.93	26.04	24.81	23.70	22.06	18.79
45.0	27.45	26.86	25.98	25.75	24.93	24.05	23.17	22.53	21.54
90.0	19.14	18.96	18.96	18.84	18.67	18.49	18.14	17.79	17.50
135.0	18.61	18.32	18.02	17.79	17.56	17.38	17.15	16.91	16.80
180.0	18.55	18.20	17.97	17.67	17.44	17.21	17.03	16.85	16.68
225.0	19.72	19.20	18.55	18.02	17.56	17.26	17.03	16.85	16.56
270.0	18.73	18.49	18.20	17.91	17.67	17.38	17.15	16.85	16.68
315.0	18.49	18.20	17.91	17.67	17.50	17.26	17.03	16.80	16.44
360.0	24.64	24.81	25.28	25.93	26.04	24.81	23.70	22.06	18.79

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	16.62	16.15	15.63	14.63	13.81	13.17	12.64	12.35	12.06
45.0	18.43	16.74	15.86	15.39	14.57	13.81	12.93	12.58	12.35
90.0	17.21	16.62	15.68	14.86	14.10	13.17	12.70	12.47	12.11
135.0	16.50	16.27	15.98	15.33	14.69	13.99	13.17	12.82	12.52
180.0	16.44	16.09	15.68	14.98	14.34	13.40	12.99	12.70	12.29
225.0	16.21	15.57	14.86	14.16	13.05	12.70	12.47	12.11	12.06
270.0	16.44	15.98	15.33	14.63	13.64	12.82	12.47	12.35	11.94
315.0	15.98	15.51	14.75	13.81	13.17	12.64	12.47	12.06	12.06
360.0	16.62	16.15	15.63	14.63	13.81	13.17	12.64	12.35	12.06

Intensity data(cd)

C/γ(°)	90.0
0.0	12.17
45.0	11.94
90.0	12.00
135.0	12.06
180.0	12.06
225.0	12.11
270.0	12.11
315.0	12.11
360.0	12.17