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: 3-2833-L
Luminaire: 92.70.412.00
Report No: 2024321-B025
Ballast type: AC

Test No: 2024321-C025	Voltage(V): 35.170
LampCAT: Fortimo_SLM_C_1205	Current(A): 0.450
Lamp flux(lm): 2693.0	Power (W): 15.826
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2303.80, Efficiency(%): 85.55% , Luminous Efficacy(lm/W): 145.57
Central intensity(cd): 8122.250, Maximum intensity(cd): 8122.250
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=23.8
[C90/270]Total=23.8
Field angle(10%Imax): [C0/180]Total=58.8
[C90/270]Total=58.8
Maximum s/h(1/2): C0_180=0.40 C90_270=0.40
Maximum s/h(1/4): C0_180=0.44 C90_270=0.44
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.55%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.011%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8122.250	0.000	0	0.00%	0.00%
1.0	8092.184	7.758	7.758	0.29%	0.34%
2.0	8004.620	23.104	30.862	0.86%	1.34%
3.0	7845.658	37.909	68.771	1.41%	2.99%
4.0	7599.864	51.701	120.472	1.92%	5.23%
5.0	7253.118	63.897	184.368	2.37%	8.00%
6.0	6835.633	74.040	258.409	2.75%	11.22%
7.0	6345.507	81.815	340.224	3.04%	14.77%
8.0	5853.918	87.309	427.533	3.24%	18.56%
9.0	5390.932	91.133	518.666	3.38%	22.51%
10.0	4910.389	93.223	611.889	3.46%	26.56%
11.0	4465.325	93.683	705.572	3.48%	30.63%
12.0	4023.919	92.800	798.372	3.45%	34.65%
13.0	3639.939	90.951	889.322	3.38%	38.60%
14.0	3299.850	88.829	978.151	3.30%	42.46%
15.0	2977.025	86.172	1064.323	3.20%	46.20%
16.0	2693.191	83.085	1147.407	3.09%	49.81%
17.0	2429.913	79.780	1227.188	2.96%	53.27%
18.0	2211.185	76.522	1303.709	2.84%	56.59%
19.0	2028.083	73.755	1377.464	2.74%	59.79%
20.0	1845.200	70.892	1448.356	2.63%	62.87%
21.0	1693.919	67.958	1516.314	2.52%	65.82%
22.0	1534.445	64.875	1581.189	2.41%	68.63%
23.0	1371.087	60.966	1642.155	2.26%	71.28%
24.0	1252.762	57.367	1699.522	2.13%	73.77%
25.0	1168.877	55.063	1754.585	2.04%	76.16%
26.0	1068.614	52.816	1807.401	1.96%	78.45%
27.0	980.515	50.132	1857.533	1.86%	80.63%
28.0	914.933	47.989	1905.522	1.78%	82.71%
29.0	847.530	46.111	1951.633	1.71%	84.71%
30.0	767.076	43.594	1995.227	1.62%	86.61%
31.0	666.725	39.901	2035.128	1.48%	88.34%
32.0	570.763	35.453	2070.58	1.32%	89.88%
33.0	465.386	30.525	2101.106	1.13%	91.20%
34.0	361.172	25.014	2126.12	0.93%	92.29%
35.0	277.953	19.849	2145.969	0.74%	93.15%
36.0	226.884	16.074	2162.043	0.60%	93.85%
37.0	143.600	12.083	2174.126	0.45%	94.37%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	91.873	7.860	2181.986	0.29%	94.71%
39.0	79.415	5.847	2187.832	0.22%	94.97%
40.0	72.546	5.300	2193.132	0.20%	95.20%
41.0	66.182	4.940	2198.072	0.18%	95.41%
42.0	60.893	4.617	2202.689	0.17%	95.61%
43.0	55.955	4.328	2207.017	0.16%	95.80%
44.0	51.712	4.064	2211.081	0.15%	95.98%
45.0	47.820	3.825	2214.906	0.14%	96.14%
46.0	44.411	3.607	2218.513	0.13%	96.30%
47.0	41.588	3.420	2221.933	0.13%	96.45%
48.0	38.881	3.253	2225.186	0.12%	96.59%
49.0	36.767	3.107	2228.293	0.12%	96.72%
50.0	34.711	2.980	2231.273	0.11%	96.85%
51.0	33.204	2.873	2234.146	0.11%	96.98%
52.0	32.056	2.800	2236.947	0.10%	97.10%
53.0	30.900	2.739	2239.685	0.10%	97.22%
54.0	30.110	2.689	2242.374	0.10%	97.33%
55.0	29.539	2.663	2245.037	0.10%	97.45%
56.0	29.020	2.646	2247.683	0.10%	97.56%
57.0	28.442	2.627	2250.31	0.10%	97.68%
58.0	27.849	2.603	2252.913	0.10%	97.79%
59.0	26.913	2.560	2255.474	0.10%	97.90%
60.0	25.860	2.493	2257.967	0.09%	98.01%
61.0	24.689	2.412	2260.379	0.09%	98.12%
62.0	23.424	2.318	2262.697	0.09%	98.22%
63.0	22.217	2.220	2264.917	0.08%	98.31%
64.0	20.951	2.118	2267.035	0.08%	98.40%
65.0	19.890	2.021	2269.057	0.08%	98.49%
66.0	18.676	1.924	2270.981	0.07%	98.58%
67.0	17.747	1.831	2272.812	0.07%	98.66%
68.0	16.898	1.755	2274.567	0.07%	98.73%
69.0	16.167	1.687	2276.254	0.06%	98.80%
70.0	15.538	1.628	2277.882	0.06%	98.88%
71.0	15.018	1.579	2279.462	0.06%	98.94%
72.0	14.565	1.538	2281	0.06%	99.01%
73.0	14.148	1.501	2282.501	0.06%	99.08%
74.0	13.797	1.469	2283.97	0.05%	99.14%
75.0	13.453	1.440	2285.41	0.05%	99.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.116	1.410	2286.821	0.05%	99.26%
77.0	12.802	1.382	2288.202	0.05%	99.32%
78.0	12.495	1.354	2289.557	0.05%	99.38%
79.0	12.195	1.327	2290.883	0.05%	99.44%
80.0	11.895	1.299	2292.182	0.05%	99.50%
81.0	11.595	1.270	2293.452	0.05%	99.55%
82.0	11.324	1.243	2294.695	0.05%	99.60%
83.0	11.031	1.215	2295.91	0.05%	99.66%
84.0	10.790	1.189	2297.099	0.04%	99.71%
85.0	10.556	1.165	2298.264	0.04%	99.76%
86.0	10.366	1.144	2299.408	0.04%	99.81%
87.0	10.168	1.124	2300.531	0.04%	99.86%
88.0	9.993	1.104	2301.636	0.04%	99.91%
89.0	9.810	1.085	2302.721	0.04%	99.95%
90.0	9.824	1.077	2303.798	0.04%	100.00%

Zonal flux distribution table

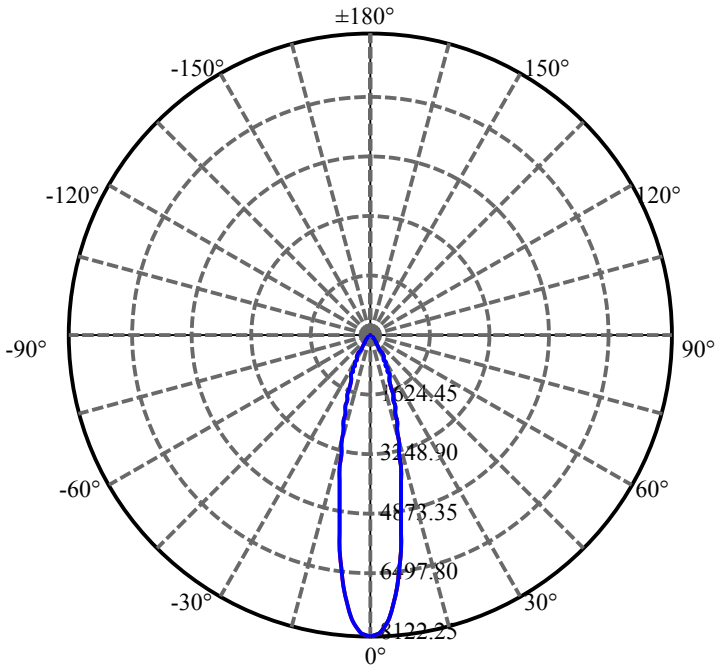
ZONAL LUMEN SUMMARY

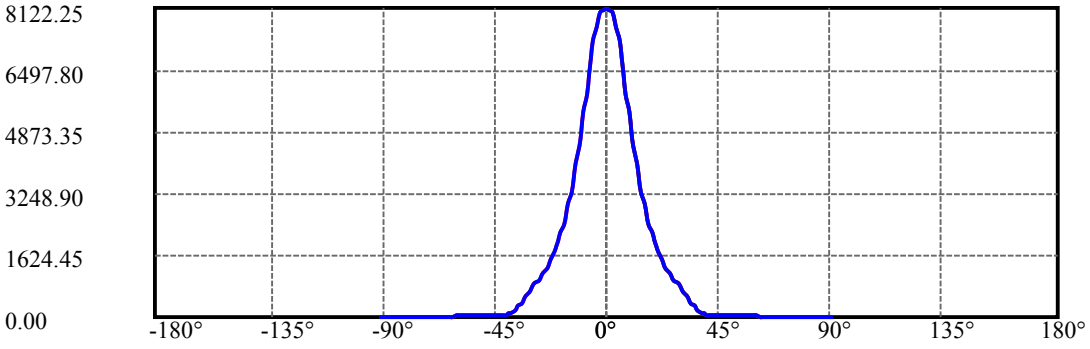
Zone	Lumens	%Lamp	%Fixt
0-30	1995.23	74.09%	86.61%
0-40	2193.13	81.44%	95.20%
0-60	2257.97	83.85%	98.01%
0-90	2302.72	85.51%	99.95%
0-120	2302.72	85.51%	99.95%
0-180	2303.80	85.55%	100.00%
60-90	44.75	1.66%	1.94%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.71	1843.04	68.44%	80.00%

ZONAL LUMEN SUMMARY

0-10	611.89
10-20	836.47
20-30	546.87
30-40	197.90
40-50	38.14
50-60	26.69
60-70	19.92
70-80	14.30
80-90	10.54
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):

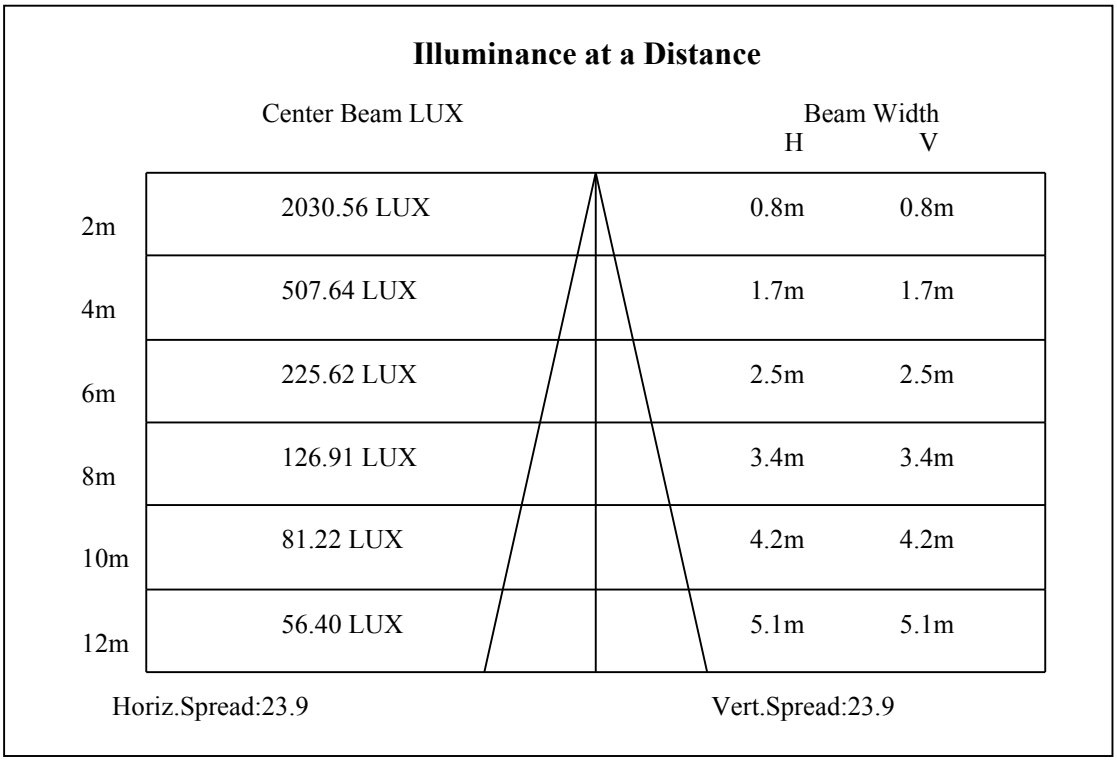
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:29.4 Right:29.4
:C90/270Left:29.4 Right:29.4

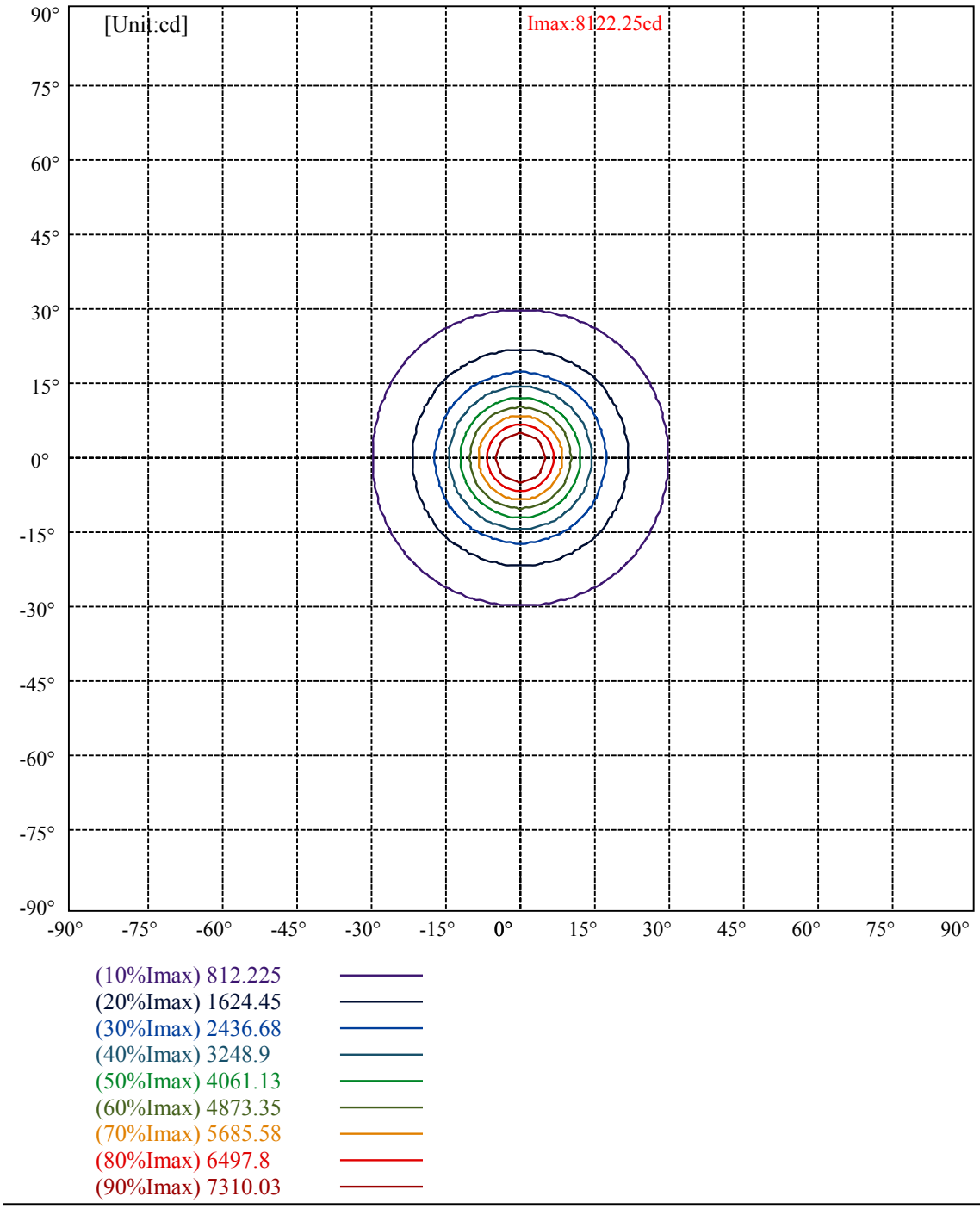
Beam Angle(50%Imax):C0/180Left:11.9 Right:11.9
:C90/270Left:11.9 Right:11.9

Lux distance Curve



Equipment: GMS1980 Date: 2024/3/21 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

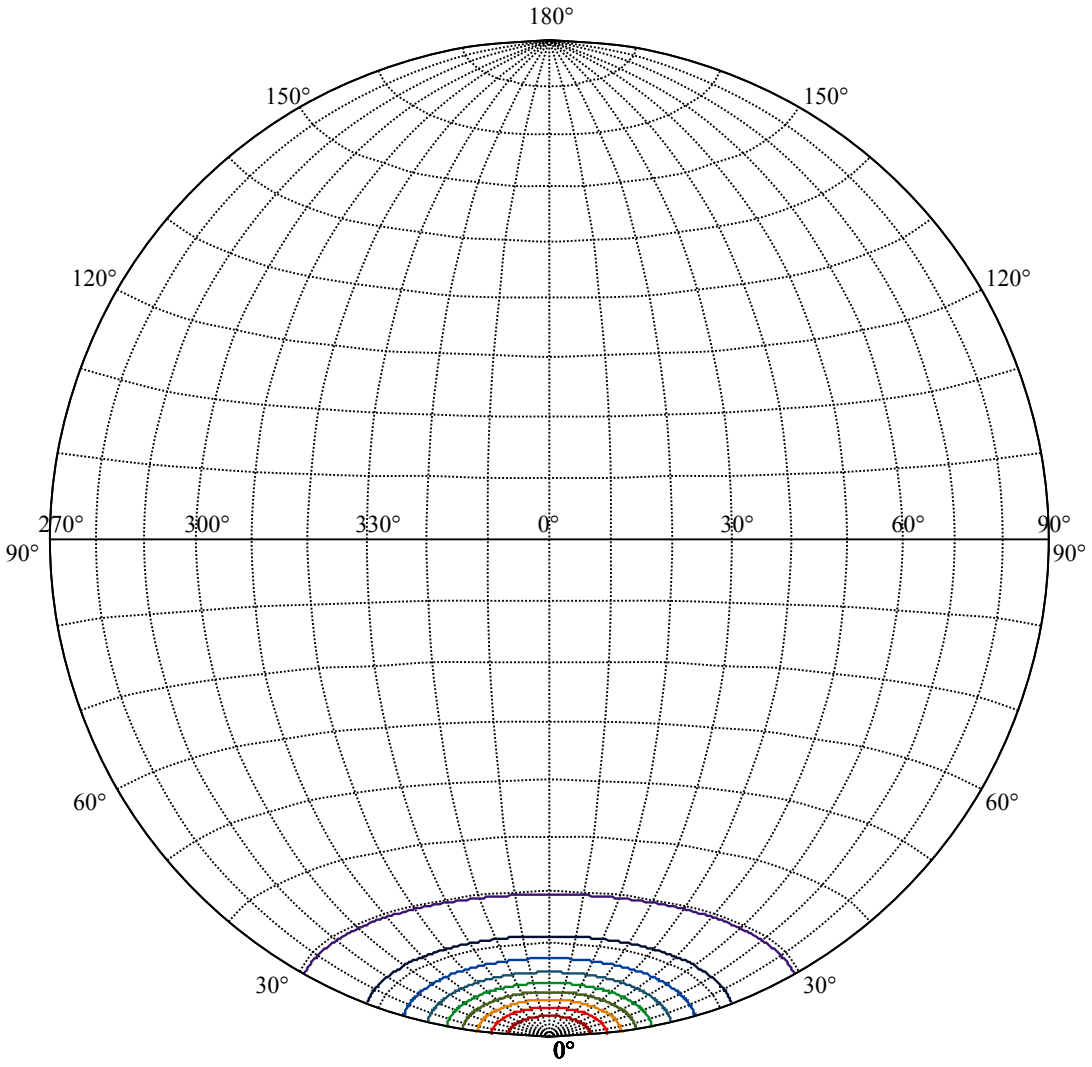


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/21
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



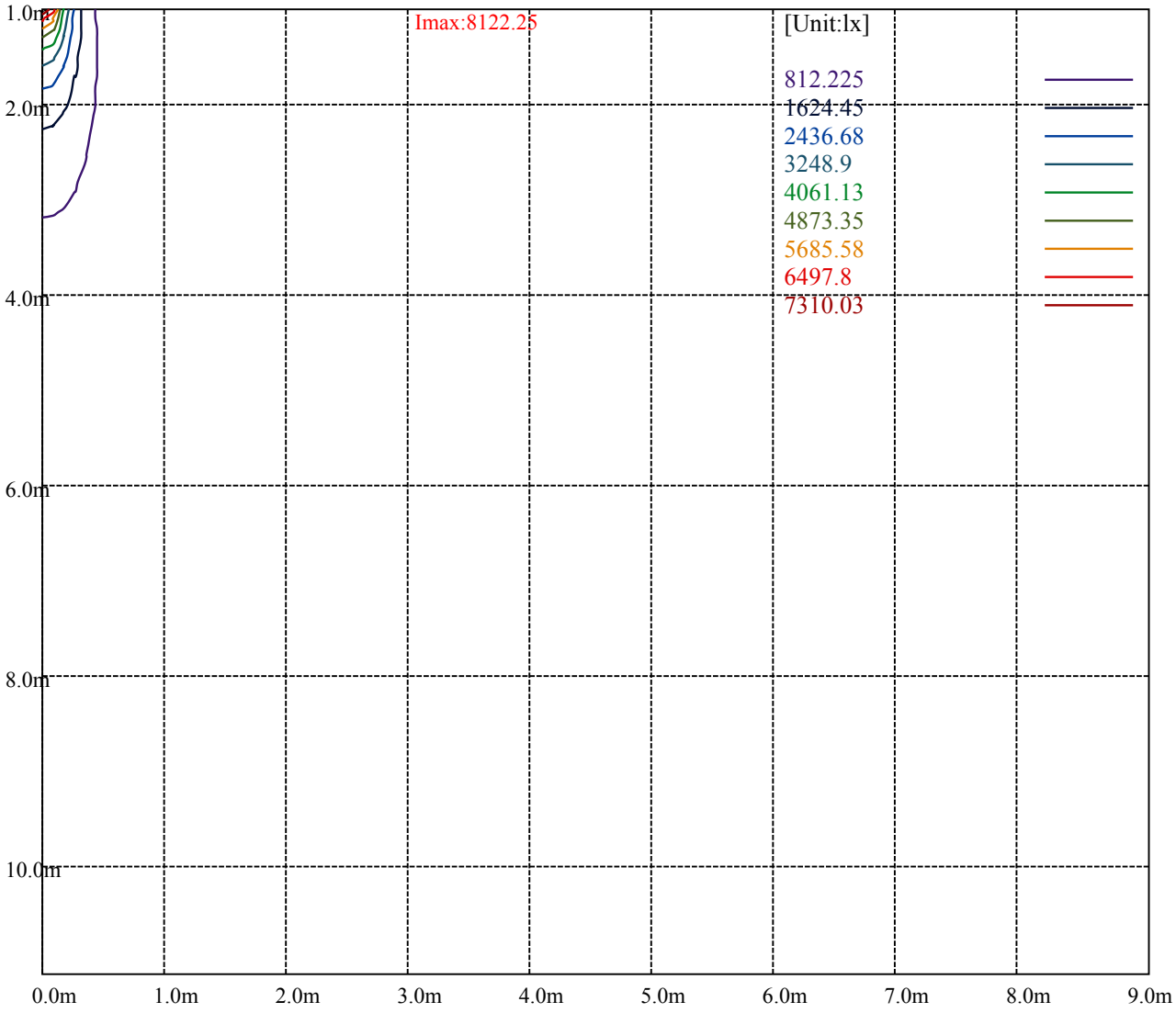
House [Unit:cd] Road

Imax:8122.25

(10%Imax) 812.225
(20%Imax) 1624.45
(30%Imax) 2436.68
(40%Imax) 3248.9
(50%Imax) 4061.13
(60%Imax) 4873.35
(70%Imax) 5685.58
(80%Imax) 6497.8
(90%Imax) 7310.03

Equipment: GMS1980	Date: 2024/3/21	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/21
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

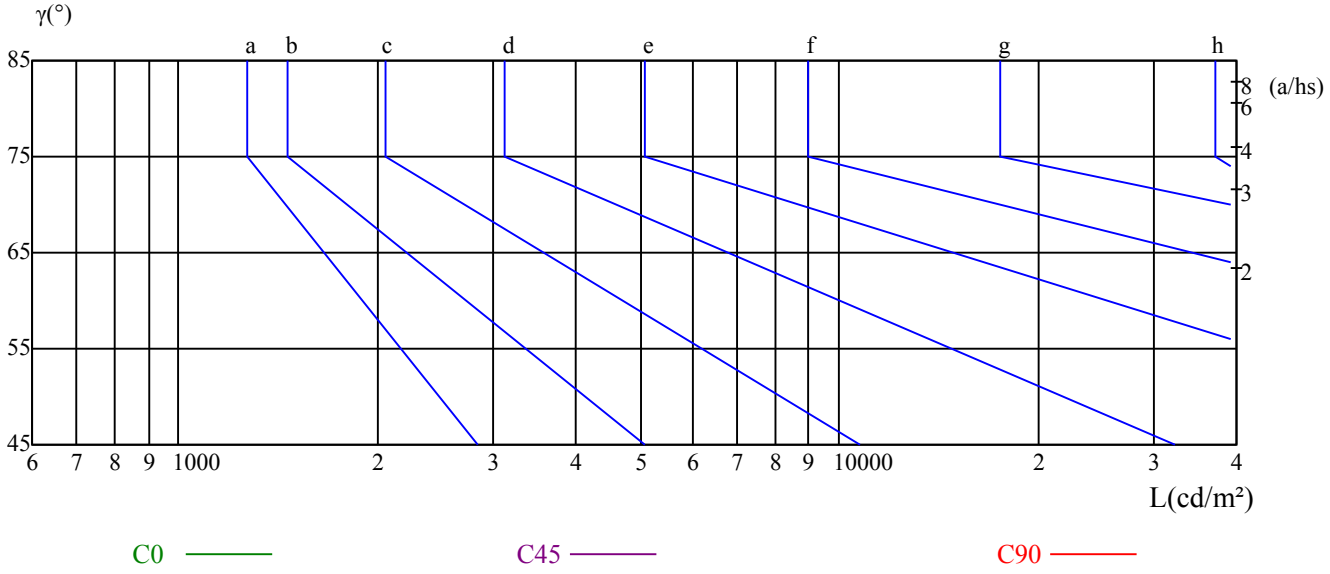
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	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

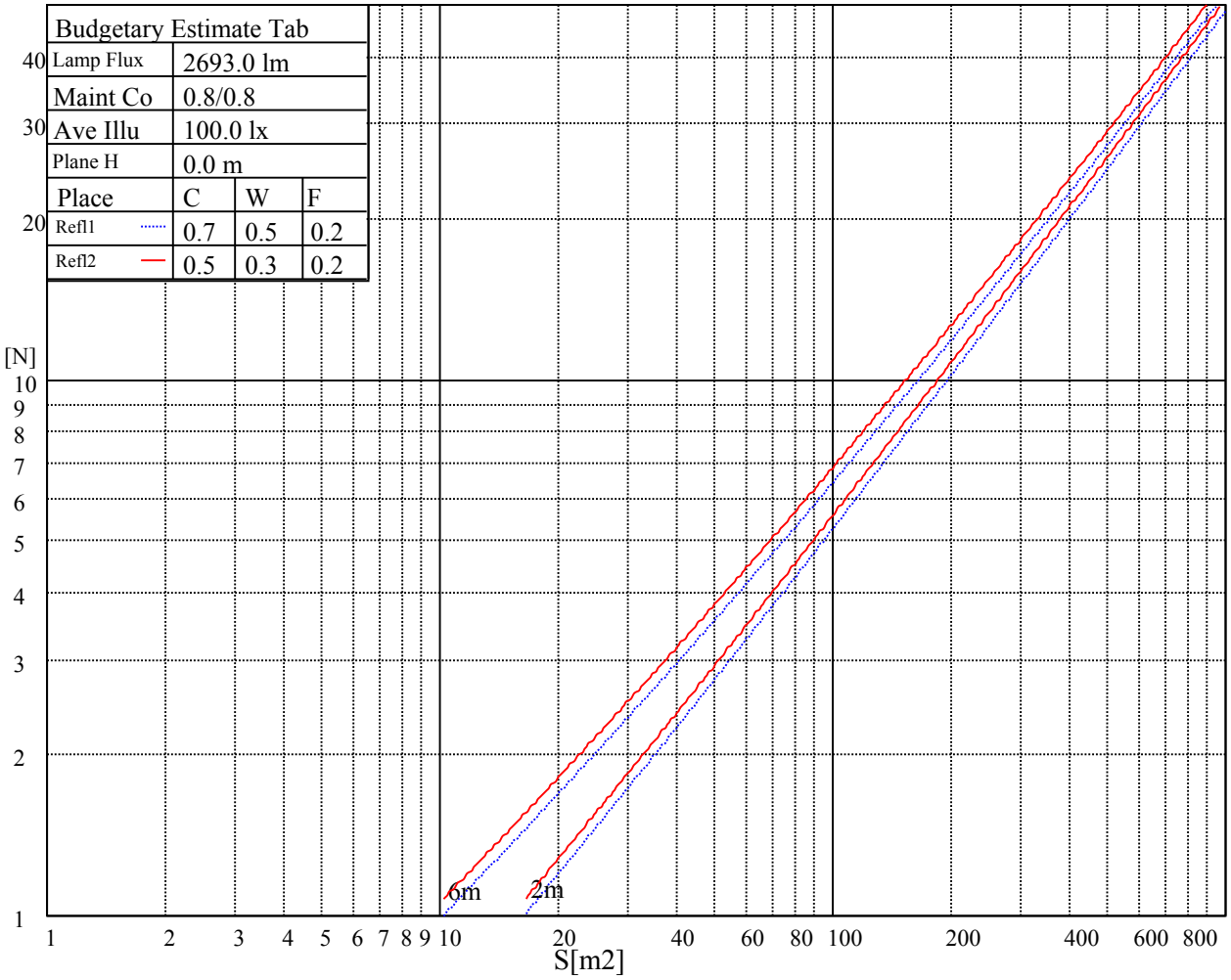
Luminance Limitting Curve



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	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

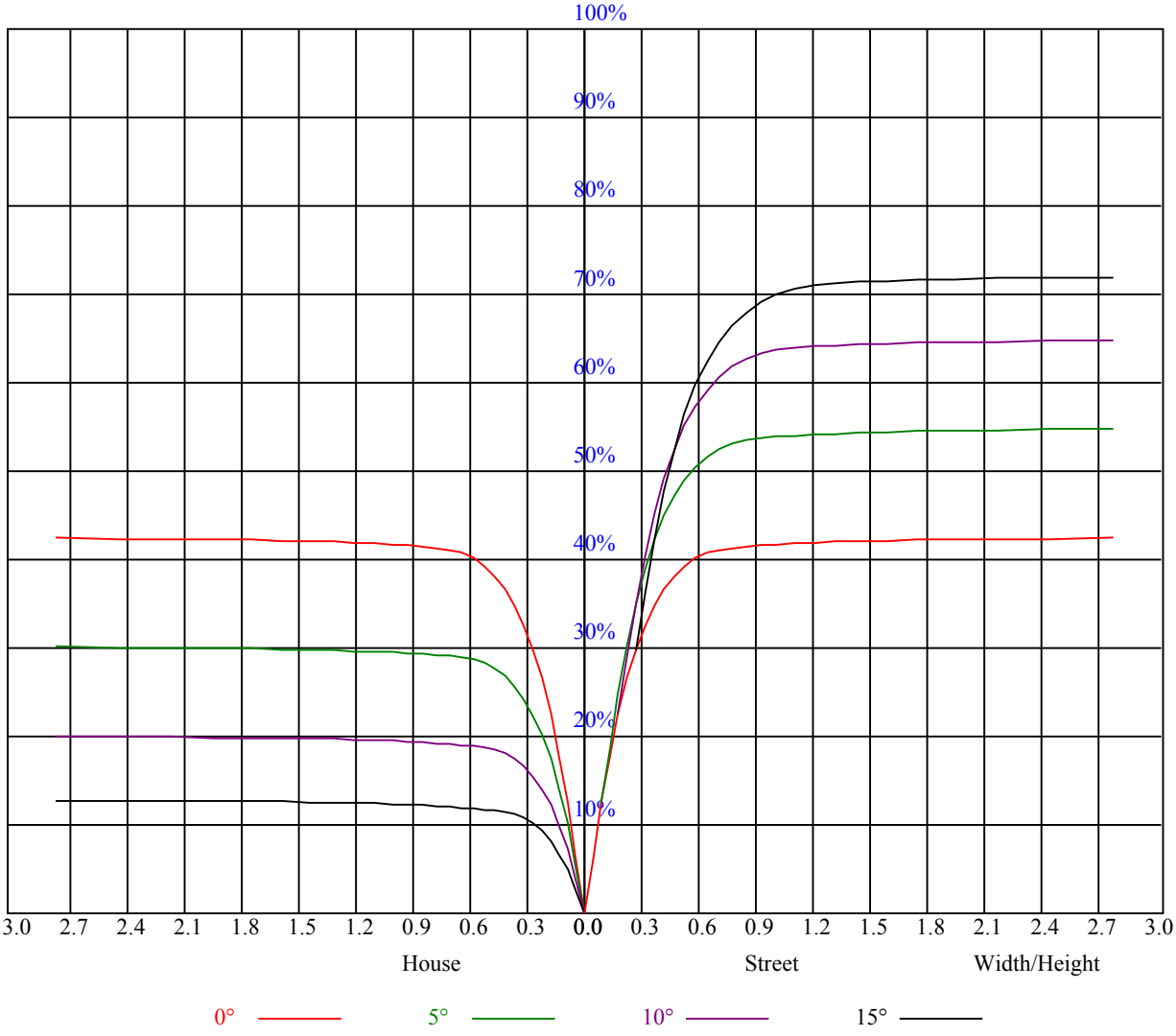


Equipment: GMS1980 Date: 2024/3/21 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

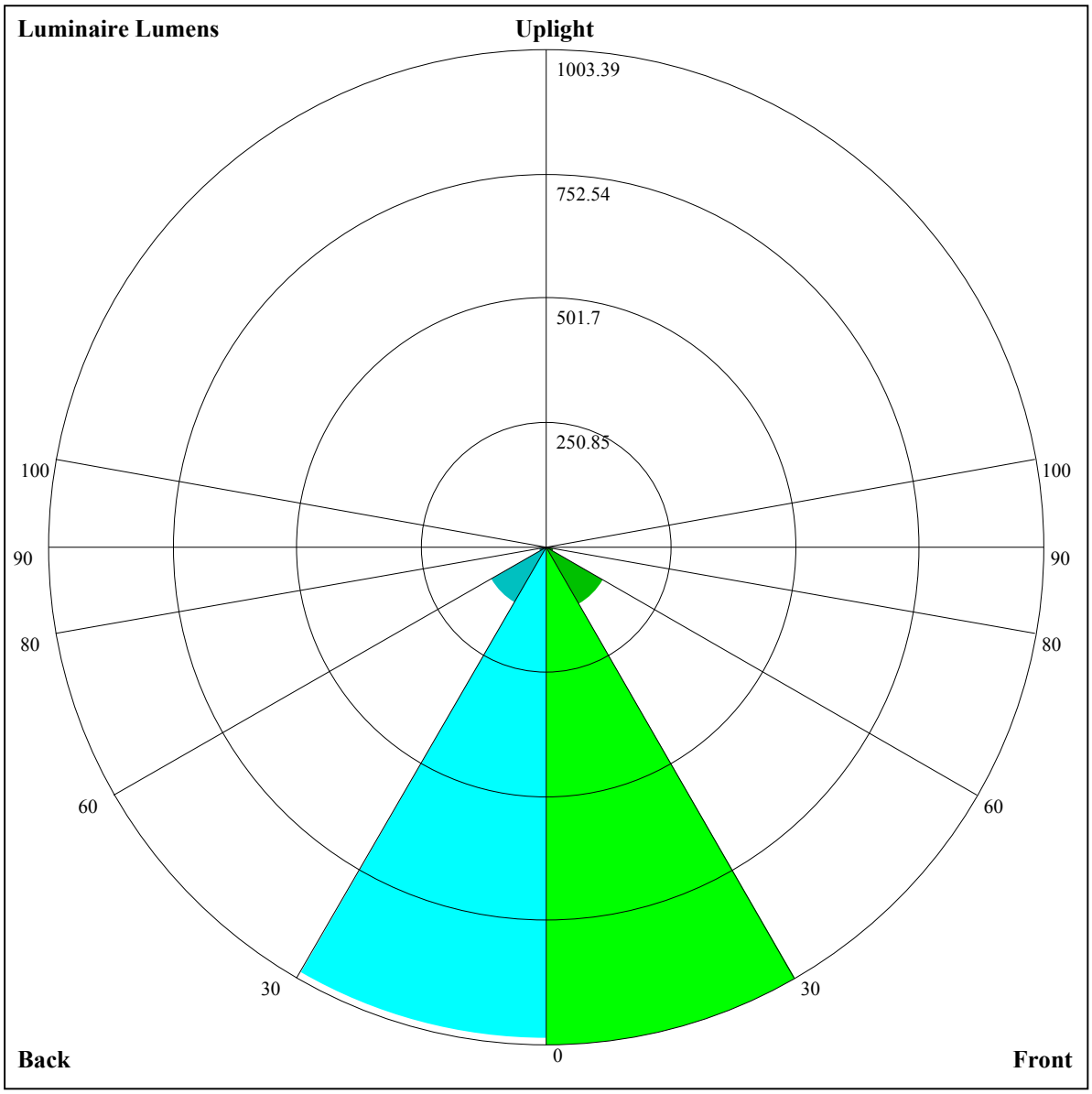
Utilization factor table for indoor luminaire

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	1.02	1.02	1.02	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.86
1	0.95	0.94	0.92	0.94	0.92	0.90	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.83	0.81
2	0.90	0.87	0.84	0.89	0.86	0.84	0.86	0.84	0.82	0.83	0.82	0.80	0.81	0.80	0.78	0.77
3	0.85	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.78	0.76	0.75	0.73
4	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.70
5	0.77	0.73	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.67
6	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
7	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.62
8	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.59
9	0.66	0.62	0.59	0.65	0.61	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.57
10	0.63	0.59	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/3/21	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1003.39,FM=134.46,FH=17.17,FVH=5.83
BL=990.47,BM=129.62,BH=17.1,BVH=5.8
UL=0,UH=0

BUG Rating:B2-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	8126.49	8080.26	7988.38	7846.17	7557.65	7218.81	6823.20	6281.28	5829.48
45.0	8113.62	8130.59	8108.94	8007.11	7872.51	7665.34	7276.16	6889.91	6362.04
90.0	8130.59	8084.94	7990.14	7801.69	7555.31	7214.71	6819.69	6277.77	5827.73
135.0	8118.30	8127.08	8082.02	7961.46	7787.65	7521.96	7156.19	6641.19	6205.78
180.0	8126.49	8112.45	8041.64	7904.11	7694.01	7303.67	6904.54	6340.39	5885.08
225.0	8113.62	8019.40	7856.70	7609.74	7269.14	6850.70	6290.64	5828.31	5364.23
270.0	8130.59	8118.88	8056.85	7925.18	7644.85	7317.71	6919.76	6469.14	5896.20
315.0	8118.30	8063.87	7912.30	7709.81	7417.79	6932.05	6494.89	6036.07	5460.79
360.0	8126.49	8080.26	7988.38	7846.17	7557.65	7218.81	6823.20	6281.28	5829.48

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5381.79	4835.19	4412.07	4024.65	3579.29	3258.59	2966.56	2699.70	2407.67
45.0	5918.44	5469.57	5024.22	4486.39	4093.71	3716.24	3372.12	2984.12	2711.99
90.0	5375.94	4927.65	4397.44	4006.51	3642.50	3304.82	2937.30	2671.61	2385.44
135.0	5758.67	5205.05	4773.15	4263.42	3883.03	3534.23	3208.85	2847.18	2593.78
180.0	5432.70	4885.52	4470.01	4073.81	3617.92	3288.44	2995.24	2733.06	2436.94
225.0	4805.93	4392.76	4004.75	3564.66	3240.45	2948.42	2626.55	2400.65	2194.65
270.0	5447.33	4992.03	4554.28	4046.30	3678.20	3342.28	2964.22	2702.63	2416.45
315.0	5006.66	4575.35	4086.68	3725.60	3384.41	3005.77	2745.35	2506.58	2292.38
360.0	5381.79	4835.19	4412.07	4024.65	3579.29	3258.59	2966.56	2699.70	2407.67

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2204.02	2023.77	1861.07	1676.73	1542.71	1416.89	1158.45	1158.45	1063.59
45.0	2472.63	2271.90	2044.83	1880.39	1699.55	1563.78	1436.79	1287.55	1179.29
90.0	2185.29	2007.97	1808.99	1667.95	1536.86	1297.50	1154.77	1154.77	1059.26
135.0	2373.15	2174.75	1957.05	1802.55	1662.68	1531.59	1378.26	1261.22	1126.62
180.0	2225.67	2034.89	1868.68	1720.62	1552.66	1427.42	1304.53	1173.43	1073.36
225.0	1965.83	1805.48	1660.93	1526.33	1289.89	1149.56	1149.56	1055.69	961.64
270.0	2205.19	2014.99	1816.60	1672.63	1545.05	1420.40	1278.19	1174.02	1079.80
315.0	2057.71	1890.92	1743.44	1604.16	1446.15	1161.55	1161.55	1085.88	1005.36
360.0	2204.02	2023.77	1861.07	1676.73	1542.71	1416.89	1158.45	1158.45	1063.59

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	969.13	911.20	857.59	761.55	670.73	573.93	478.95	361.14	269.26
45.0	1079.80	997.87	918.28	862.68	790.11	707.01	593.48	495.16	394.50
90.0	963.05	899.96	844.48	770.33	659.67	562.40	441.49	344.11	250.65
135.0	1035.32	963.92	892.53	827.57	743.88	654.34	534.95	435.47	337.15
180.0	974.46	914.18	859.17	759.10	664.87	567.14	471.16	354.70	309.06
225.0	902.71	850.39	751.43	660.25	538.00	435.23	337.27	250.30	159.47
270.0	999.04	915.94	863.27	787.77	673.07	571.82	471.75	350.02	306.72
315.0	920.62	866.02	793.51	707.36	593.48	494.22	394.03	298.46	196.81
360.0	969.13	911.20	857.59	761.55	670.73	573.93	478.95	361.14	269.26

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	186.04	122.78	87.96	79.94	71.98	66.36	61.16	55.48	51.38
45.0	299.11	299.11	124.83	89.36	81.52	73.33	67.77	62.50	58.05
90.0	158.95	111.31	91.24	81.11	74.73	68.88	63.26	58.64	53.37
135.0	314.32	209.80	101.89	85.33	76.14	70.46	64.90	58.93	54.84
180.0	309.06	117.10	84.74	77.60	71.57	65.02	60.10	54.78	50.80
225.0	107.45	84.57	77.13	69.47	64.08	59.11	53.72	49.86	46.58
270.0	306.72	109.55	86.85	79.18	72.63	65.49	60.16	55.54	51.44
315.0	133.43	94.57	80.35	73.33	67.71	60.80	56.06	51.91	47.23
360.0	186.04	122.78	87.96	79.94	71.98	66.36	61.16	55.48	51.38

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	47.70	43.54	40.79	38.33	36.40	34.06	32.83	31.66	30.72
45.0	53.96	49.28	46.00	43.07	40.38	37.63	35.58	34.76	32.54
90.0	49.74	46.35	43.37	40.03	37.92	35.41	34.00	32.77	31.54
135.0	50.04	46.76	43.72	41.08	38.22	36.23	34.47	33.12	31.78
180.0	47.34	44.18	40.91	38.51	36.69	34.82	33.12	31.95	30.96
225.0	42.78	40.32	38.10	35.82	34.12	32.89	31.43	30.55	29.73
270.0	46.94	43.66	41.02	37.98	36.11	33.83	32.54	31.31	30.37
315.0	44.07	41.20	38.80	36.23	34.29	32.83	31.66	30.31	29.55
360.0	47.70	43.54	40.79	38.33	36.40	34.06	32.83	31.66	30.72

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	29.85	29.44	29.03	28.32	27.86	26.63	25.75	24.52	23.35
45.0	31.54	30.84	29.96	29.50	28.91	28.21	27.21	26.16	24.81
90.0	30.78	30.26	29.55	28.97	28.38	27.45	26.45	24.99	23.82
135.0	31.02	30.26	29.85	29.20	28.68	27.92	26.80	25.98	24.29
180.0	30.20	29.55	29.14	28.32	27.97	26.98	25.87	24.64	23.53
225.0	29.20	28.68	28.09	27.62	26.74	25.63	24.52	23.17	22.00
270.0	29.38	28.79	28.50	27.97	27.51	26.57	25.63	24.64	23.17
315.0	28.91	28.50	28.03	27.62	26.74	25.93	24.64	23.41	22.41
360.0	29.85	29.44	29.03	28.32	27.86	26.63	25.75	24.52	23.35

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.00	20.78	19.90	18.49	17.67	16.85	16.09	15.57	14.98
45.0	23.58	22.53	21.24	20.01	18.90	17.97	17.26	16.27	15.68
90.0	22.77	21.24	20.25	18.79	17.91	17.15	16.21	15.68	15.22
135.0	23.29	22.06	20.89	19.66	18.49	17.73	16.91	16.04	15.51
180.0	22.12	20.89	19.96	18.79	17.67	16.85	16.09	15.57	14.98
225.0	20.83	19.61	18.49	17.67	16.85	15.98	15.45	14.92	14.51
270.0	22.06	20.54	19.61	18.20	17.44	16.62	15.86	15.27	14.81
315.0	21.07	19.96	18.79	17.79	17.03	16.04	15.45	14.98	14.46
360.0	22.00	20.78	19.90	18.49	17.67	16.85	16.09	15.57	14.98

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.57	14.10	13.81	13.52	13.11	12.82	12.52	12.23	11.94
45.0	15.10	14.63	14.28	13.87	13.52	13.23	12.93	12.52	12.29
90.0	14.63	14.28	13.93	13.58	13.23	12.82	12.58	12.29	11.94
135.0	15.04	14.51	14.16	13.81	13.46	13.11	12.82	12.47	12.23
180.0	14.57	14.10	13.75	13.46	13.05	12.76	12.47	12.17	11.82
225.0	14.10	13.75	13.40	13.05	12.76	12.47	12.06	11.82	11.47
270.0	14.40	14.05	13.64	13.28	12.99	12.76	12.35	12.11	11.82
315.0	14.10	13.75	13.40	13.05	12.82	12.47	12.23	11.94	11.65
360.0	14.57	14.10	13.81	13.52	13.11	12.82	12.52	12.23	11.94

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.65	11.35	11.06	10.83	10.65	10.42	10.18	10.01	9.77
45.0	12.06	11.70	11.41	11.06	10.83	10.59	10.42	10.18	9.95
90.0	11.65	11.35	11.06	10.83	10.59	10.48	10.18	10.01	9.77
135.0	11.88	11.59	11.24	10.94	10.71	10.48	10.30	10.12	9.95
180.0	11.53	11.24	10.94	10.77	10.48	10.30	10.12	9.95	9.71
225.0	11.18	11.00	10.77	10.48	10.30	10.12	9.95	9.77	9.83
270.0	11.47	11.29	10.94	10.77	10.48	10.30	10.12	9.95	9.71
315.0	11.35	11.06	10.83	10.65	10.42	10.24	10.07	9.95	9.77
360.0	11.65	11.35	11.06	10.83	10.65	10.42	10.18	10.01	9.77

Intensity data(cd)

C/γ(°)	90.0
0.0	9.77
45.0	9.77
90.0	9.77
135.0	9.77
180.0	9.83
225.0	9.95
270.0	9.83
315.0	9.89
360.0	9.77