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: 2-2456-L
Luminaire: 92.70.412.00
Report No: 2024806-B006
Ballast type: AC

Test No: 2024806-C006	Voltage(V): 35.000
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.450
Lamp flux(lm): 2571.0	Power (W): 15.750
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2324.36, Efficiency(%): 90.41% , Luminous Efficacy(lm/W): 147.58
Central intensity(cd): 5102.489, Maximum intensity(cd): 5102.489
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=36.8
[C90/270]Total=36.8
Field angle(10%Imax): [C0/180]Total=65.2
[C90/270]Total=65.2
Maximum s/h(1/2): C0_180=0.60 C90_270=0.60
Maximum s/h(1/4): C0_180=0.61 C90_270=0.61
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.41%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.890%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5102.489	0.000	0	0.00%	0.00%
1.0	5091.370	4.878	4.878	0.19%	0.21%
2.0	5059.402	14.569	19.447	0.57%	0.84%
3.0	5011.560	24.086	43.533	0.94%	1.87%
4.0	4941.552	33.316	76.85	1.30%	3.31%
5.0	4859.401	42.163	119.013	1.64%	5.12%
6.0	4759.620	50.551	169.563	1.97%	7.30%
7.0	4633.577	58.303	227.867	2.27%	9.80%
8.0	4499.268	65.362	293.229	2.54%	12.62%
9.0	4352.523	71.739	364.968	2.79%	15.70%
10.0	4179.516	77.212	442.18	3.00%	19.02%
11.0	4009.508	81.825	524.005	3.18%	22.54%
12.0	3819.676	85.584	609.589	3.33%	26.23%
13.0	3631.453	88.426	698.015	3.44%	30.03%
14.0	3429.696	90.382	788.397	3.52%	33.92%
15.0	3242.059	91.593	879.99	3.56%	37.86%
16.0	3037.523	92.013	972.003	3.58%	41.82%
17.0	2838.619	91.507	1063.511	3.56%	45.75%
18.0	2634.668	90.243	1153.753	3.51%	49.64%
19.0	2442.641	88.335	1242.088	3.44%	53.44%
20.0	2236.276	85.637	1327.725	3.33%	57.12%
21.0	2052.077	82.345	1410.07	3.20%	60.66%
22.0	1873.656	78.889	1488.96	3.07%	64.06%
23.0	1723.766	75.484	1564.443	2.94%	67.31%
24.0	1535.462	71.258	1635.702	2.77%	70.37%
25.0	1387.634	66.465	1702.167	2.59%	73.23%
26.0	1268.687	62.703	1764.869	2.44%	75.93%
27.0	1161.796	59.462	1824.332	2.31%	78.49%
28.0	1036.653	55.660	1879.992	2.16%	80.88%
29.0	913.090	51.011	1931.003	1.98%	83.08%
30.0	793.572	46.080	1977.082	1.79%	85.06%
31.0	674.516	40.855	2017.937	1.59%	86.82%
32.0	571.962	35.710	2053.647	1.39%	88.35%
33.0	475.247	30.851	2084.498	1.20%	89.68%
34.0	391.245	26.223	2110.721	1.02%	90.81%
35.0	315.297	21.943	2132.663	0.85%	91.75%
36.0	263.673	18.435	2151.098	0.72%	92.55%
37.0	213.205	15.553	2166.651	0.60%	93.21%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	172.766	12.883	2179.534	0.50%	93.77%
39.0	118.091	9.928	2189.462	0.39%	94.20%
40.0	98.823	7.565	2197.027	0.29%	94.52%
41.0	87.096	6.620	2203.647	0.26%	94.81%
42.0	79.203	6.042	2209.689	0.24%	95.07%
43.0	72.385	5.615	2215.305	0.22%	95.31%
44.0	66.591	5.245	2220.55	0.20%	95.53%
45.0	61.675	4.929	2225.479	0.19%	95.75%
46.0	57.352	4.655	2230.134	0.18%	95.95%
47.0	53.204	4.397	2234.531	0.17%	96.14%
48.0	49.444	4.150	2238.681	0.16%	96.31%
49.0	46.094	3.923	2242.604	0.15%	96.48%
50.0	43.007	3.715	2246.319	0.14%	96.64%
51.0	40.088	3.516	2249.835	0.14%	96.79%
52.0	37.688	3.337	2253.172	0.13%	96.94%
53.0	35.494	3.183	2256.356	0.12%	97.07%
54.0	33.394	3.036	2259.392	0.12%	97.20%
55.0	31.661	2.904	2262.296	0.11%	97.33%
56.0	30.146	2.793	2265.089	0.11%	97.45%
57.0	28.691	2.690	2267.779	0.10%	97.57%
58.0	27.403	2.594	2270.373	0.10%	97.68%
59.0	26.233	2.508	2272.881	0.10%	97.79%
60.0	25.201	2.430	2275.311	0.09%	97.89%
61.0	24.250	2.360	2277.67	0.09%	97.99%
62.0	23.387	2.295	2279.966	0.09%	98.09%
63.0	22.560	2.235	2282.201	0.09%	98.19%
64.0	21.741	2.174	2284.374	0.08%	98.28%
65.0	21.090	2.120	2286.494	0.08%	98.37%
66.0	20.351	2.068	2288.562	0.08%	98.46%
67.0	19.671	2.012	2290.574	0.08%	98.55%
68.0	18.976	1.958	2292.532	0.08%	98.63%
69.0	18.318	1.903	2294.434	0.07%	98.71%
70.0	17.696	1.850	2296.284	0.07%	98.79%
71.0	17.052	1.796	2298.08	0.07%	98.87%
72.0	16.430	1.741	2299.821	0.07%	98.94%
73.0	15.838	1.687	2301.508	0.07%	99.02%
74.0	15.340	1.639	2303.147	0.06%	99.09%
75.0	14.879	1.597	2304.744	0.06%	99.16%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.426	1.556	2306.3	0.06%	99.22%
77.0	13.980	1.514	2307.814	0.06%	99.29%
78.0	13.585	1.476	2309.29	0.06%	99.35%
79.0	13.204	1.439	2310.729	0.06%	99.41%
80.0	12.816	1.403	2312.132	0.05%	99.47%
81.0	12.429	1.365	2313.497	0.05%	99.53%
82.0	12.063	1.328	2314.825	0.05%	99.59%
83.0	11.705	1.292	2316.117	0.05%	99.65%
84.0	11.397	1.259	2317.376	0.05%	99.70%
85.0	11.119	1.229	2318.605	0.05%	99.75%
86.0	10.871	1.202	2319.807	0.05%	99.80%
87.0	10.622	1.176	2320.983	0.05%	99.85%
88.0	10.358	1.149	2322.132	0.04%	99.90%
89.0	10.139	1.124	2323.256	0.04%	99.95%
90.0	10.029	1.106	2324.361	0.04%	100.00%

Zonal flux distribution table

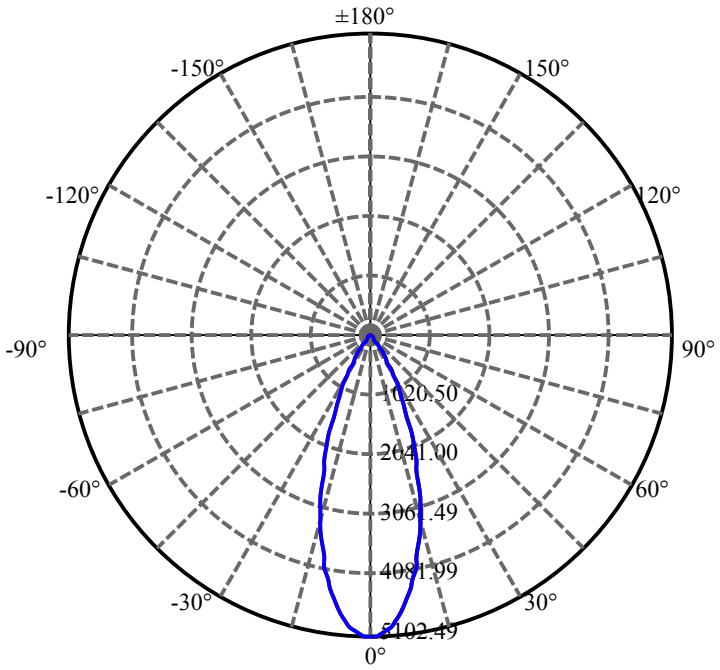
ZONAL LUMEN SUMMARY

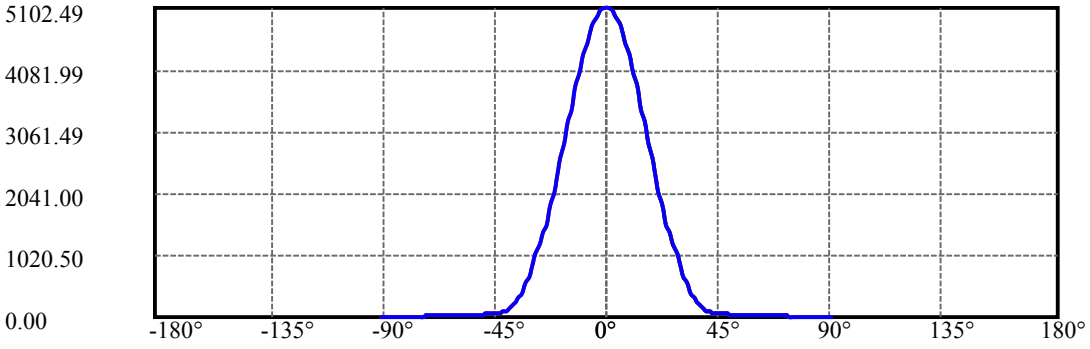
Zone	Lumens	%Lamp	%Fixt
0-30	1977.08	76.90%	85.06%
0-40	2197.03	85.45%	94.52%
0-60	2275.31	88.50%	97.89%
0-90	2323.26	90.36%	99.95%
0-120	2323.26	90.36%	99.95%
0-180	2324.36	90.41%	100.00%
60-90	47.95	1.86%	2.06%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.63	1859.49	72.33%	80.00%

ZONAL LUMEN SUMMARY

0-10	442.18
10-20	885.55
20-30	649.36
30-40	219.94
40-50	49.29
50-60	28.99
60-70	20.97
70-80	15.85
80-90	11.12
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):

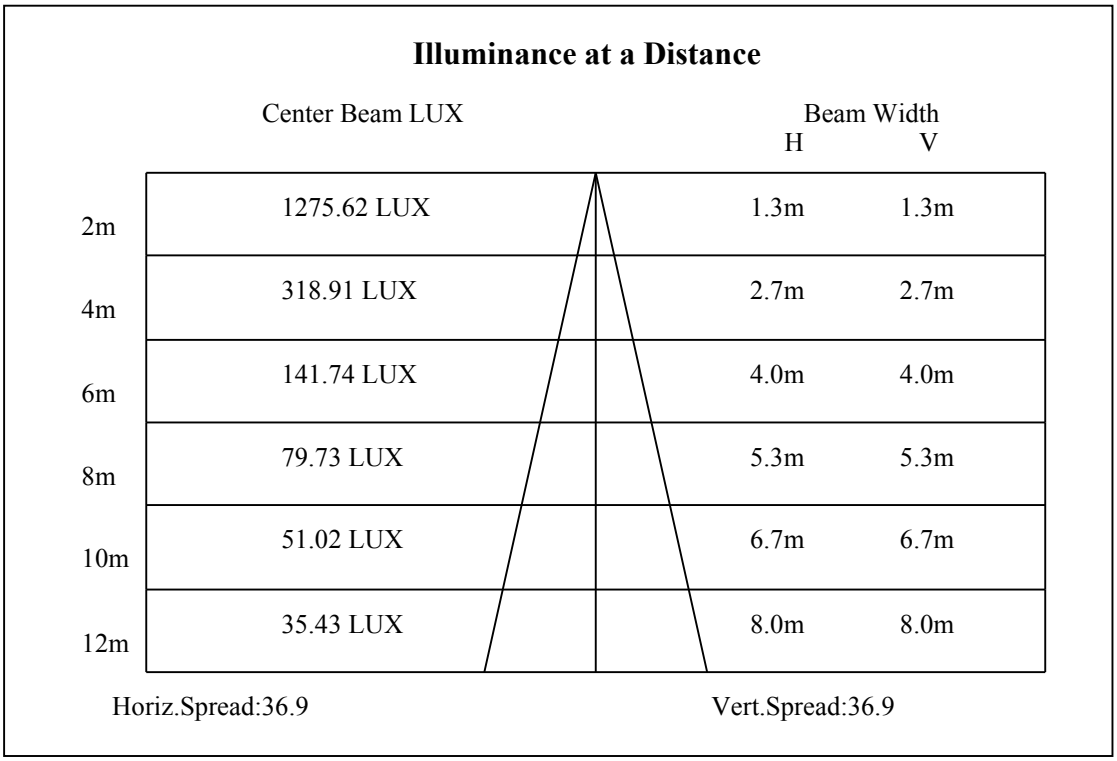
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:32.6 Right:32.6
:C90/270Left:32.6 Right:32.6

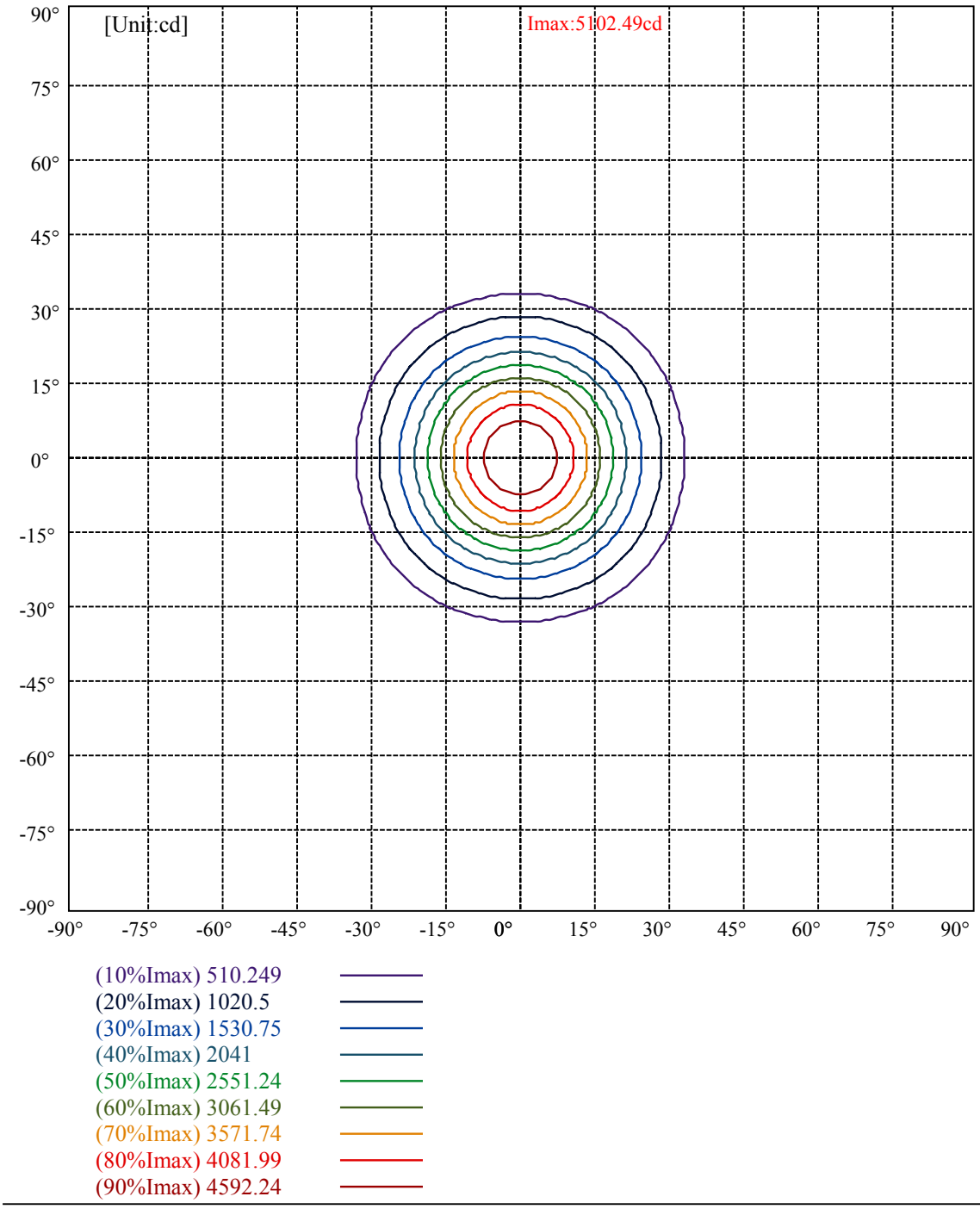
Beam Angle(50%Imax):C0/180Left:18.4 Right:18.4
:C90/270Left:18.4 Right:18.4

Lux distance Curve



Equipment: GMS1980 Date: 2024/8/6 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

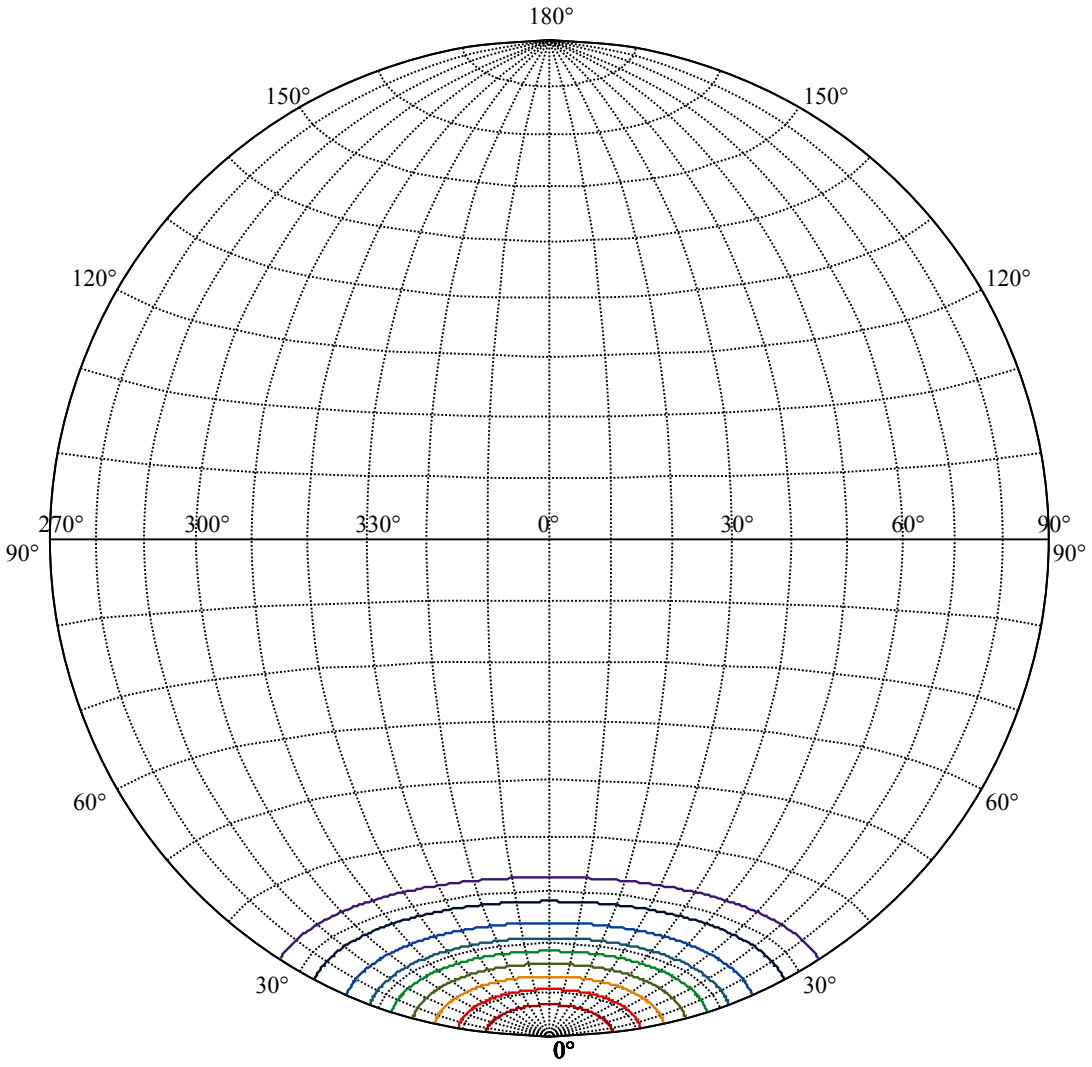


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/6
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



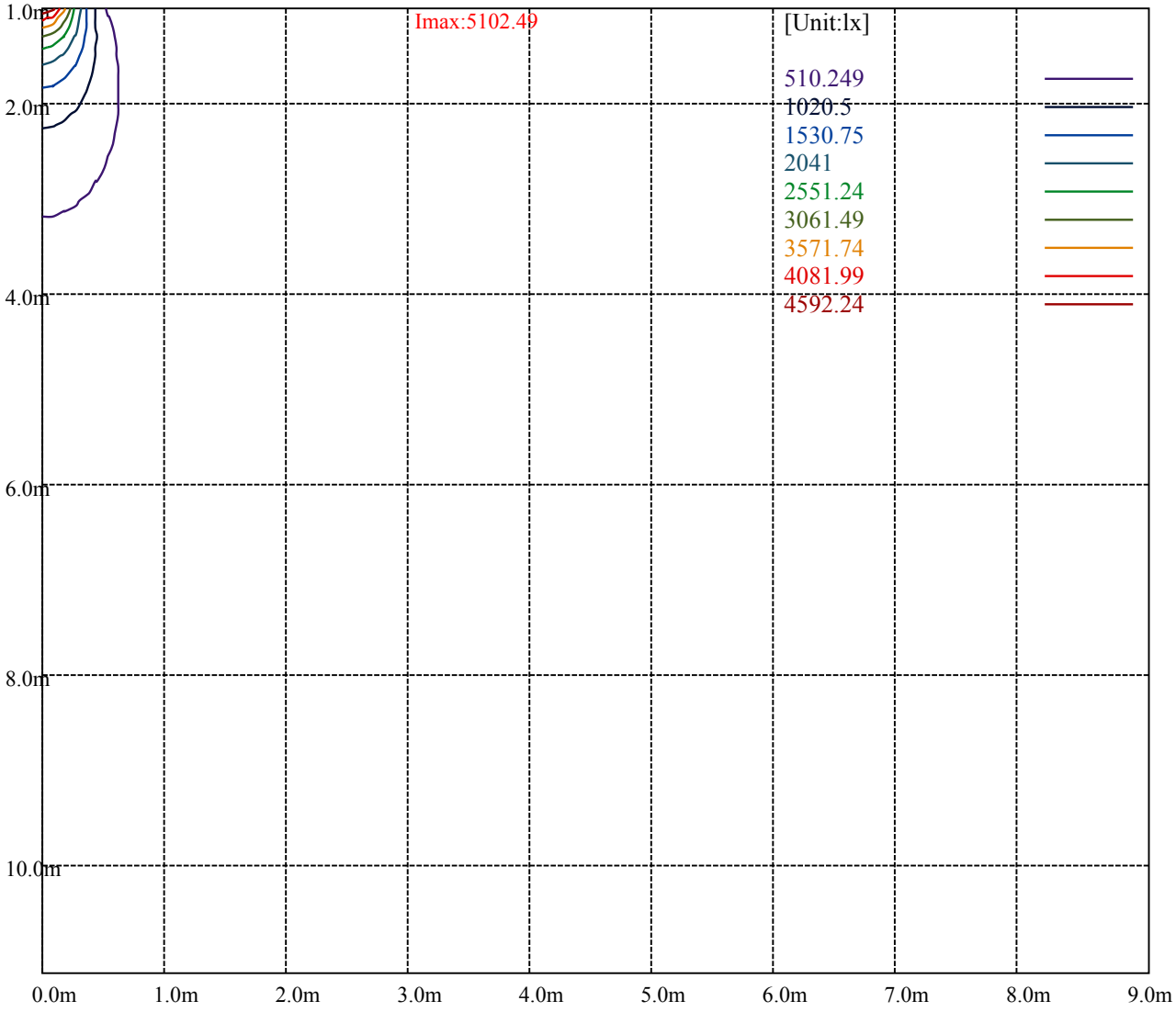
House [Unit:cd] Road

Imax:5102.49

(10%Imax) 510.249
(20%Imax) 1020.5
(30%Imax) 1530.75
(40%Imax) 2041
(50%Imax) 2551.24
(60%Imax) 3061.49
(70%Imax) 3571.74
(80%Imax) 4081.99
(90%Imax) 4592.24

Equipment: GMS1980 Date: 2024/8/6 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/6
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

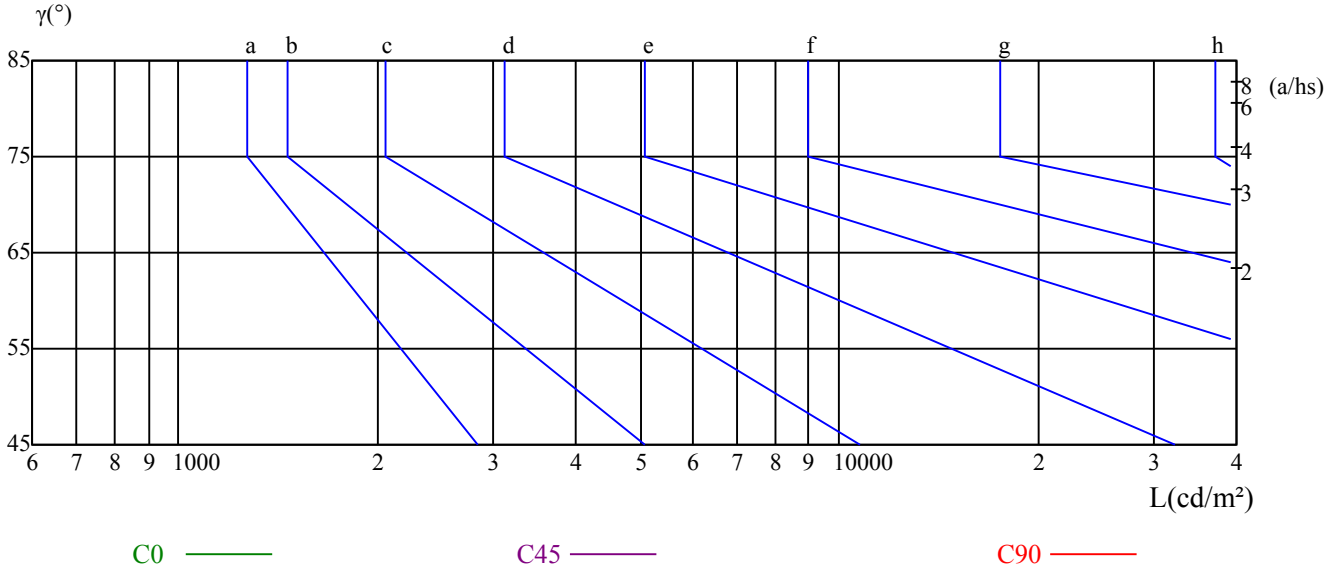
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

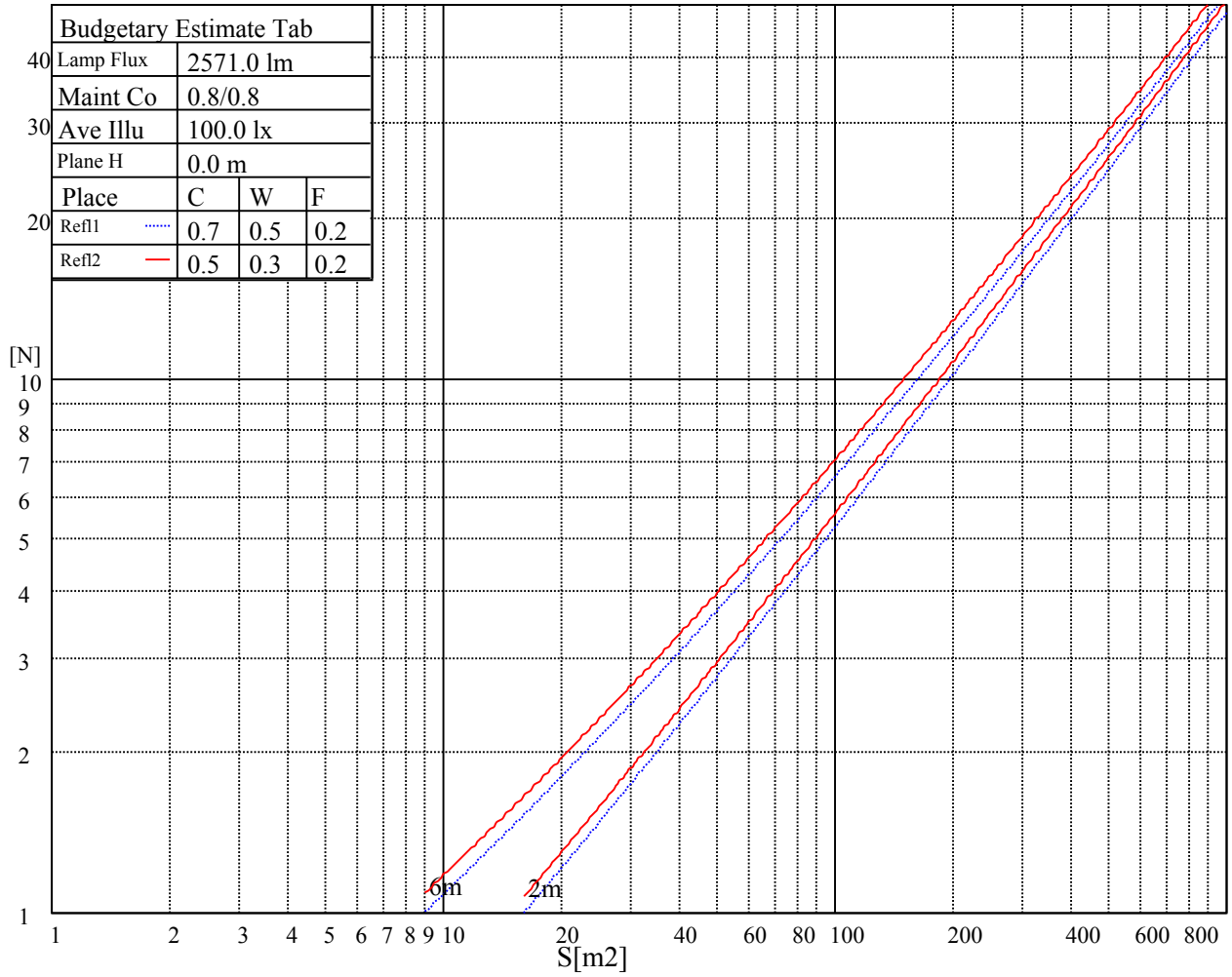
Luminance Limitting Curve



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

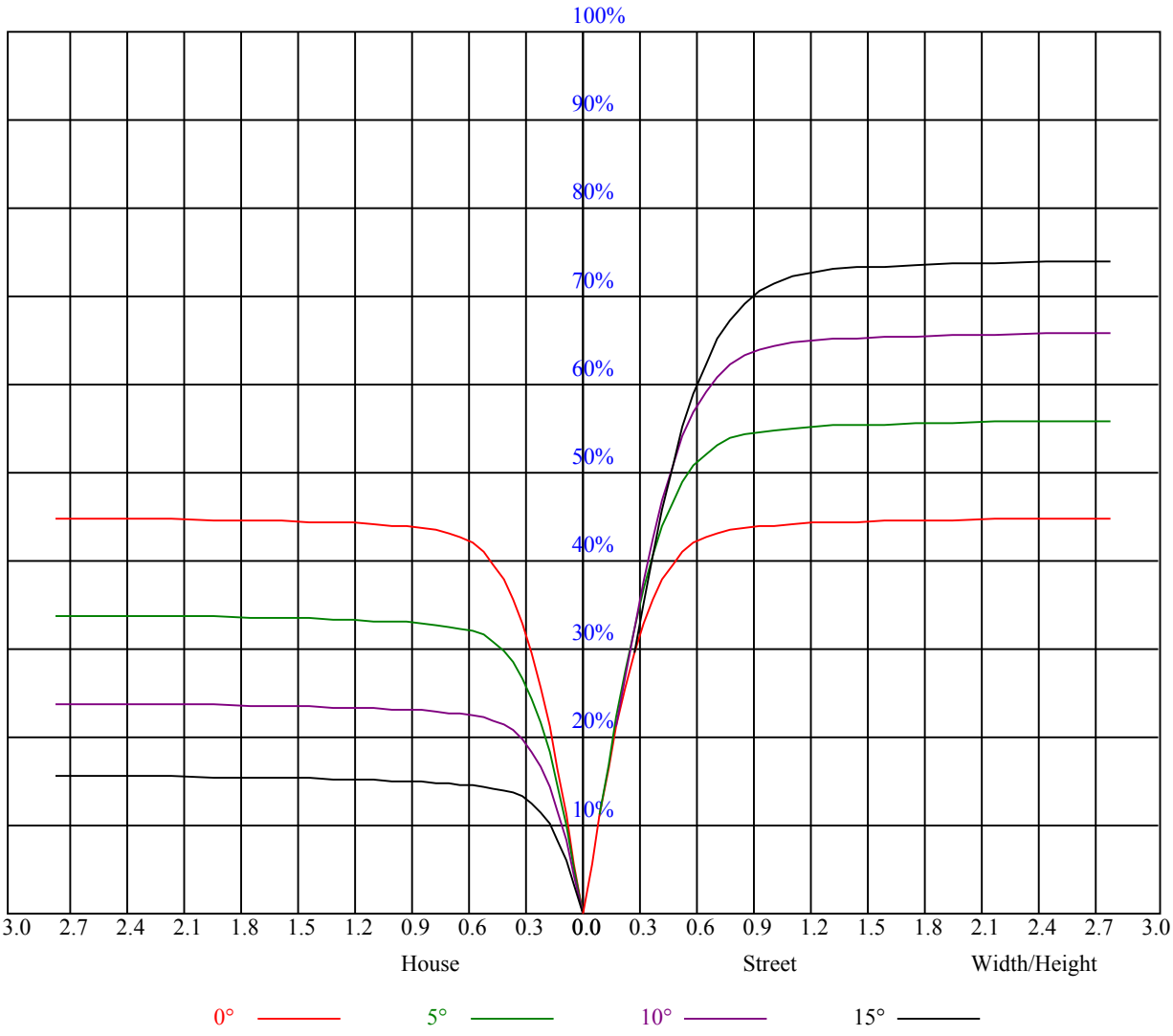


Equipment: GMS1980 Date: 2024/8/6 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

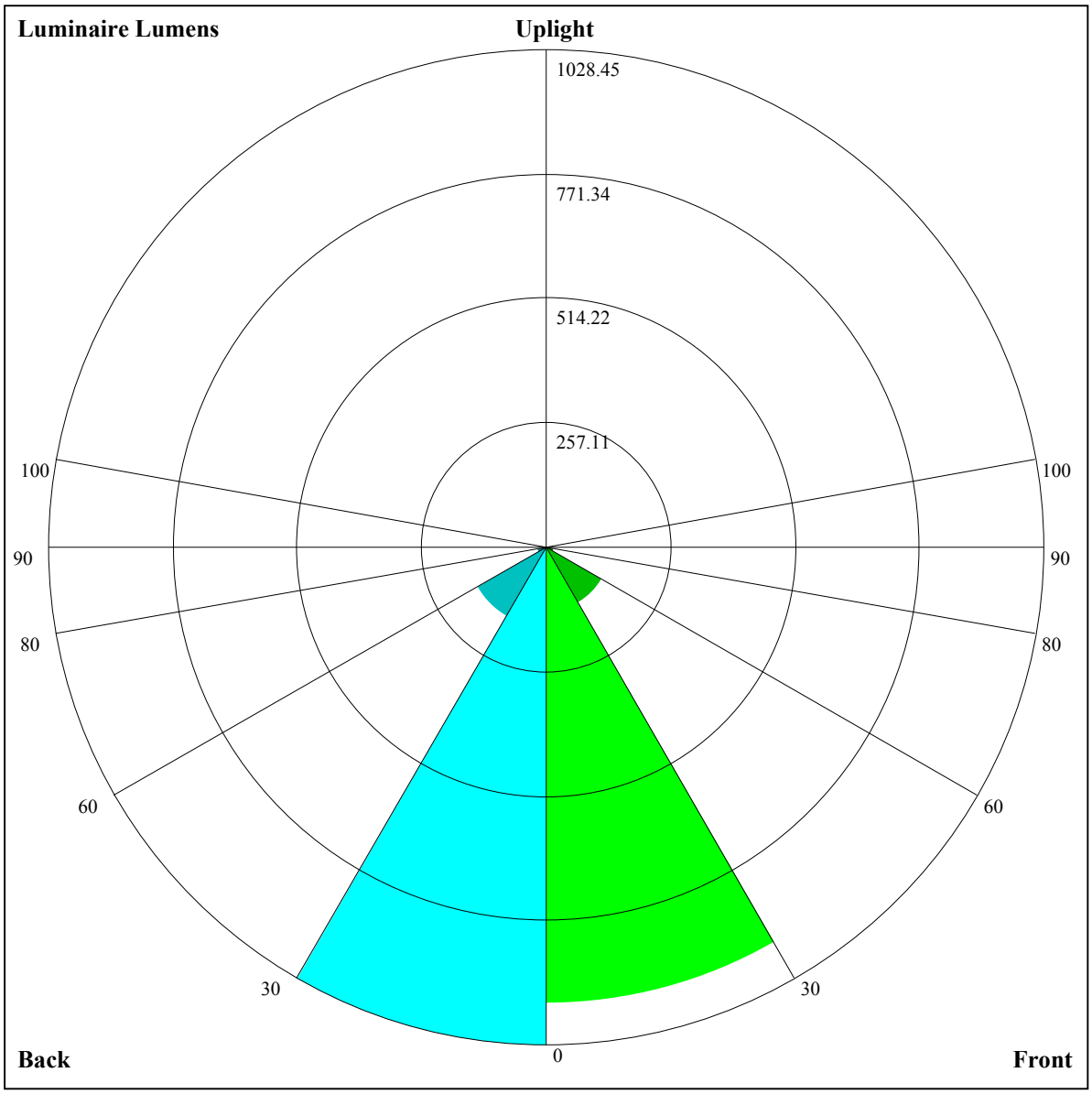
Utilization factor table for indoor luminaire

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	1.08	1.08	1.08	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	1.01	0.98	0.96	0.99	0.97	0.95	0.95	0.93	0.92	0.92	0.90	0.89	0.89	0.88	0.87	0.85
2	0.94	0.91	0.88	0.93	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.84	0.85	0.83	0.82	0.80
3	0.89	0.85	0.82	0.88	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.77	0.76
4	0.84	0.80	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.72
5	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
6	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.65
7	0.73	0.68	0.65	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
8	0.69	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.59
9	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.57
10	0.64	0.59	0.56	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/8/6	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=943.52,FM=133.72,FH=18.02,FVH=6.01
BL=1028.45,BM=165.83,BH=18.69,BVH=6.2
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	5088.59	5058.74	4992.61	4925.90	4839.87	4708.19	4590.56	4448.94	4300.88
45.0	5113.75	5097.37	5072.20	5023.63	4961.01	4883.18	4794.81	4638.55	4516.24
90.0	5109.66	5086.25	5051.14	4989.69	4915.36	4839.87	4699.42	4588.81	4448.35
135.0	5097.95	5116.10	5121.36	5100.29	5045.28	4991.44	4916.53	4807.68	4705.85
180.0	5088.59	5113.75	5103.22	5082.74	5037.09	4979.15	4901.32	4815.88	4678.93
225.0	5113.75	5099.71	5059.91	5008.41	4924.73	4852.74	4756.77	4605.78	4487.56
270.0	5109.66	5112.00	5071.03	5031.24	4964.52	4895.47	4809.44	4687.71	4569.50
315.0	5097.95	5047.04	5003.73	4930.58	4844.55	4725.17	4608.12	4475.27	4286.83
360.0	5088.59	5058.74	4992.61	4925.90	4839.87	4708.19	4590.56	4448.94	4300.88

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4096.63	3917.55	3737.89	3561.74	3327.06	3143.30	2953.69	2707.89	2517.70
45.0	4374.62	4217.78	4007.68	3835.62	3610.90	3427.72	3244.55	3003.43	2810.31
90.0	4292.68	4097.80	3931.60	3746.08	3575.20	3342.86	3164.37	2971.83	2727.79
135.0	4577.10	4418.51	4269.27	4061.52	3890.05	3717.41	3538.33	3302.48	3113.46
180.0	4574.76	4435.48	4288.00	4083.17	3909.95	3740.82	3509.07	3331.16	3152.08
225.0	4349.45	4155.74	3991.29	3812.80	3640.16	3422.45	3236.94	3061.96	2884.05
270.0	4436.06	4293.27	4128.24	3912.87	3734.38	3506.14	3329.99	3147.98	2920.33
315.0	4118.87	3900.00	3722.09	3543.60	3363.93	3136.86	2959.54	2773.44	2583.24
360.0	4096.63	3917.55	3737.89	3561.74	3327.06	3143.30	2953.69	2707.89	2517.70

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2333.35	2105.70	1930.13	1772.71	1594.21	1466.63	1158.75	1158.75	1067.22
45.0	2620.70	2431.67	2196.41	2017.91	1849.37	1698.97	1529.25	1402.84	1278.78
90.0	2532.33	2339.79	2105.70	1931.30	1727.06	1583.68	1450.83	1147.04	1147.04
135.0	2933.21	2744.18	2507.75	2320.48	2143.15	1972.27	1776.22	1625.81	1464.88
180.0	2925.01	2740.67	2560.42	2335.11	2155.44	1984.56	1819.52	1653.32	1529.25
225.0	2652.88	2467.37	2287.70	2071.76	1908.48	1759.83	1594.21	1467.80	1166.18
270.0	2731.89	2545.79	2317.55	2140.23	1959.39	1804.89	1653.90	1497.06	1378.26
315.0	2347.98	2165.98	1984.56	1827.13	1652.15	1519.30	1301.01	1148.45	1117.90
360.0	2333.35	2105.70	1930.13	1772.71	1594.21	1466.63	1158.75	1158.75	1067.22

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	942.91	825.28	721.70	603.54	513.77	433.36	343.88	278.86	219.69
45.0	1120.18	993.19	875.56	742.12	643.81	532.61	450.68	377.53	309.64
90.0	1055.80	930.80	822.48	717.95	596.46	509.73	428.03	338.67	269.55
135.0	1344.91	1222.59	1070.44	951.05	836.35	728.08	603.43	509.79	423.18
180.0	1410.45	1295.75	1147.10	1018.94	891.36	745.05	636.78	517.98	433.71
225.0	1166.18	1072.60	947.77	825.17	685.94	586.51	496.39	413.93	323.16
270.0	1257.12	1104.96	982.65	857.41	715.79	614.54	495.16	413.81	336.56
315.0	996.81	848.05	737.03	632.39	512.66	425.81	347.62	279.39	206.88
360.0	942.91	825.28	721.70	603.54	513.77	433.36	343.88	278.86	219.69

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	159.42	127.11	107.56	94.86	86.91	80.35	74.62	68.65	64.32
45.0	309.64	177.15	137.00	111.66	97.62	87.20	80.23	72.86	67.65
90.0	211.21	152.92	120.56	97.50	88.54	80.70	74.09	68.41	62.33
135.0	346.51	309.64	309.64	154.91	115.82	98.49	89.54	79.94	73.56
180.0	357.05	303.21	303.21	159.82	125.18	103.99	90.24	82.52	75.79
225.0	260.13	204.95	150.34	119.91	98.08	88.95	80.88	73.97	67.07
270.0	303.21	303.21	149.64	117.22	97.44	84.57	77.07	70.58	65.02
315.0	162.22	127.46	104.17	88.84	81.00	72.51	66.95	62.15	57.00
360.0	159.42	127.11	107.56	94.86	86.91	80.35	74.62	68.65	64.32

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	60.34	56.83	52.67	49.69	46.29	43.83	41.67	39.15	37.40
45.0	63.09	58.11	54.13	50.68	46.58	43.66	40.97	38.68	36.11
90.0	58.00	54.13	50.27	46.29	43.19	40.56	37.51	35.41	33.01
135.0	68.24	62.33	58.11	54.19	50.50	46.47	43.25	40.67	38.27
180.0	68.76	64.20	59.87	55.01	51.44	47.99	44.13	41.32	38.80
225.0	62.38	58.11	54.07	49.57	46.35	43.25	40.03	37.51	35.52
270.0	59.34	55.36	50.74	47.34	44.24	40.61	38.16	35.82	33.71
315.0	53.26	49.74	45.76	42.78	40.15	37.69	35.00	32.95	31.13
360.0	60.34	56.83	52.67	49.69	46.29	43.83	41.67	39.15	37.40

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	35.70	33.71	32.30	30.96	29.67	28.21	27.21	26.16	25.22
45.0	34.29	32.60	31.08	29.32	28.03	26.86	25.75	24.46	23.58
90.0	31.31	29.79	28.15	26.98	25.87	24.93	23.88	23.12	22.36
135.0	35.58	33.71	32.01	30.08	28.73	27.15	26.10	25.11	23.99
180.0	36.11	34.18	32.36	30.90	29.20	27.97	26.92	25.93	24.81
225.0	33.12	31.60	30.14	28.56	27.51	26.39	25.28	24.40	23.64
270.0	31.49	29.96	28.62	27.39	26.16	25.28	24.46	23.58	22.94
315.0	29.55	27.74	26.51	25.34	24.05	23.06	22.00	21.24	20.54
360.0	35.70	33.71	32.30	30.96	29.67	28.21	27.21	26.16	25.22

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	24.05	23.17	22.36	21.24	20.42	19.37	18.55	17.79	17.03
45.0	22.47	21.71	20.95	20.19	19.49	18.84	18.14	17.56	17.03
90.0	21.71	20.89	20.31	19.66	18.96	18.38	17.62	17.03	16.50
135.0	23.17	22.36	21.71	20.83	20.25	19.61	19.02	18.32	17.73
180.0	23.99	23.06	22.30	21.65	20.83	20.19	19.55	18.96	18.26
225.0	22.82	21.89	21.24	20.54	19.90	19.14	18.55	17.91	17.15
270.0	22.36	21.59	21.19	20.54	19.90	19.25	18.55	17.91	17.15
315.0	19.90	19.25	18.67	18.14	17.62	17.03	16.56	16.09	15.57
360.0	24.05	23.17	22.36	21.24	20.42	19.37	18.55	17.79	17.03

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.15	15.57	15.16	14.75	14.22	13.87	13.46	13.11	12.64
45.0	16.44	15.74	15.27	14.86	14.40	13.87	13.52	13.17	12.70
90.0	15.86	15.39	14.92	14.46	14.05	13.58	13.17	12.82	12.47
135.0	17.15	16.50	15.98	15.51	14.92	14.51	14.10	13.64	13.28
180.0	17.67	17.09	16.56	15.98	15.51	15.04	14.57	14.16	13.81
225.0	16.56	15.86	15.33	14.92	14.51	14.05	13.69	13.28	12.93
270.0	16.44	15.80	15.27	14.69	14.28	13.87	13.46	13.11	12.70
315.0	15.16	14.75	14.22	13.87	13.52	13.05	12.70	12.35	12.00
360.0	16.15	15.57	15.16	14.75	14.22	13.87	13.46	13.11	12.64

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.29	12.00	11.65	11.35	11.12	10.83	10.59	10.18	10.07
45.0	12.35	11.94	11.59	11.24	11.00	10.77	10.53	10.30	10.01
90.0	12.06	11.65	11.29	11.06	10.83	10.59	10.36	10.12	9.89
135.0	12.87	12.41	12.06	11.65	11.35	11.12	10.83	10.53	10.30
180.0	13.34	12.99	12.52	12.23	11.88	11.53	11.24	11.00	10.71
225.0	12.52	12.17	11.82	11.47	11.18	10.94	10.65	10.48	10.18
270.0	12.35	12.00	11.59	11.35	11.00	10.77	10.59	10.30	10.07
315.0	11.65	11.35	11.12	10.83	10.59	10.42	10.18	9.95	9.89
360.0	12.29	12.00	11.65	11.35	11.12	10.83	10.59	10.18	10.07

Intensity data(cd)

C/γ(°)	90.0
0.0	10.07
45.0	9.95
90.0	9.89
135.0	10.07
180.0	10.48
225.0	10.01
270.0	9.89
315.0	9.89
360.0	10.07