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: 2-2751-L
Luminaire: 92.70.412.00
Report No: 2024806-B011
Ballast type: AC

Test No: 2024806-C011	Voltage(V): 34.930
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.450
Lamp flux(lm): 2571.0	Power (W): 15.718
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2457.75, Efficiency(%): 95.60% , Luminous Efficacy(lm/W): 156.37
Central intensity(cd): 11903.950, Maximum intensity(cd): 11907.900
Angle of maximum intensity: C=0.0 γ=1.0
Beam Angle(50%Imax): [C0/180]Total=18.6
[C90/270]Total=18.6
Field angle(10%Imax): [C0/180]Total=48.8
[C90/270]Total=48.8
Maximum s/h(1/2): C0_180=0.32 C90_270=0.32
Maximum s/h(1/4): C0_180=0.35 C90_270=0.35
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 95.60%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.844%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11903.945	0.000	0	0.00%	0.00%
1.0	11907.895	11.394	11.394	0.44%	0.46%
2.0	11727.865	33.924	45.318	1.32%	1.84%
3.0	11292.970	55.058	100.376	2.14%	4.08%
4.0	10629.617	73.382	173.758	2.85%	7.07%
5.0	9821.641	87.980	261.738	3.42%	10.65%
6.0	8926.759	98.528	360.266	3.83%	14.66%
7.0	8061.796	105.448	465.714	4.10%	18.95%
8.0	7098.882	108.502	574.216	4.22%	23.36%
9.0	6185.858	107.666	681.881	4.19%	27.74%
10.0	5403.851	104.883	786.764	4.08%	32.01%
11.0	4731.793	101.276	888.04	3.94%	36.13%
12.0	4103.773	96.585	984.625	3.76%	40.06%
13.0	3587.459	91.276	1075.901	3.55%	43.78%
14.0	3159.293	86.358	1162.259	3.36%	47.29%
15.0	2837.127	82.322	1244.58	3.20%	50.64%
16.0	2646.563	80.351	1324.932	3.13%	53.91%
17.0	2361.500	77.989	1402.921	3.03%	57.08%
18.0	2030.350	72.412	1475.333	2.82%	60.03%
19.0	1858.075	67.651	1542.983	2.63%	62.78%
20.0	1710.232	65.310	1608.293	2.54%	65.44%
21.0	1565.682	62.904	1671.198	2.45%	68.00%
22.0	1413.699	59.872	1731.069	2.33%	70.43%
23.0	1315.410	57.264	1788.334	2.23%	72.76%
24.0	1222.294	55.483	1843.817	2.16%	75.02%
25.0	1138.065	53.669	1897.486	2.09%	77.20%
26.0	1040.632	51.428	1948.915	2.00%	79.30%
27.0	946.667	48.620	1997.534	1.89%	81.27%
28.0	855.767	45.634	2043.168	1.77%	83.13%
29.0	759.988	42.273	2085.441	1.64%	84.85%
30.0	659.929	38.337	2123.778	1.49%	86.41%
31.0	567.127	34.147	2157.926	1.33%	87.80%
32.0	482.737	30.077	2188.003	1.17%	89.02%
33.0	405.085	26.156	2214.159	1.02%	90.09%
34.0	337.872	22.484	2236.643	0.87%	91.00%
35.0	289.321	19.478	2256.121	0.76%	91.80%
36.0	257.616	17.415	2273.535	0.68%	92.50%
37.0	226.994	15.805	2289.341	0.61%	93.15%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	172.276	13.327	2302.668	0.52%	93.69%
39.0	144.221	10.803	2313.471	0.42%	94.13%
40.0	122.590	9.305	2322.776	0.36%	94.51%
41.0	103.855	8.064	2330.84	0.31%	94.84%
42.0	89.020	7.008	2337.847	0.27%	95.12%
43.0	76.233	6.121	2343.969	0.24%	95.37%
44.0	66.430	5.385	2349.353	0.21%	95.59%
45.0	58.362	4.796	2354.149	0.19%	95.78%
46.0	52.568	4.338	2358.487	0.17%	95.96%
47.0	48.098	4.004	2362.491	0.16%	96.12%
48.0	44.675	3.750	2366.241	0.15%	96.28%
49.0	42.041	3.561	2369.803	0.14%	96.42%
50.0	39.803	3.412	2373.215	0.13%	96.56%
51.0	37.937	3.289	2376.504	0.13%	96.69%
52.0	36.540	3.196	2379.7	0.12%	96.82%
53.0	35.487	3.133	2382.833	0.12%	96.95%
54.0	34.718	3.094	2385.927	0.12%	97.08%
55.0	34.323	3.082	2389.009	0.12%	97.20%
56.0	34.228	3.098	2392.107	0.12%	97.33%
57.0	34.148	3.126	2395.233	0.12%	97.46%
58.0	34.089	3.156	2398.389	0.12%	97.58%
59.0	33.972	3.182	2401.571	0.12%	97.71%
60.0	33.453	3.185	2404.756	0.12%	97.84%
61.0	32.458	3.145	2407.901	0.12%	97.97%
62.0	30.863	3.051	2410.953	0.12%	98.10%
63.0	28.778	2.901	2413.853	0.11%	98.21%
64.0	26.306	2.703	2416.556	0.11%	98.32%
65.0	24.045	2.492	2419.048	0.10%	98.43%
66.0	22.026	2.299	2421.347	0.09%	98.52%
67.0	20.388	2.133	2423.48	0.08%	98.61%
68.0	19.137	2.002	2425.482	0.08%	98.69%
69.0	18.215	1.906	2427.387	0.07%	98.76%
70.0	17.440	1.831	2429.218	0.07%	98.84%
71.0	16.767	1.768	2430.986	0.07%	98.91%
72.0	16.211	1.715	2432.701	0.07%	98.98%
73.0	15.721	1.670	2434.371	0.06%	99.05%
74.0	15.260	1.629	2436	0.06%	99.11%
75.0	14.872	1.592	2437.592	0.06%	99.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.528	1.561	2439.152	0.06%	99.24%
77.0	14.199	1.532	2440.684	0.06%	99.31%
78.0	13.906	1.505	2442.188	0.06%	99.37%
79.0	13.555	1.476	2443.664	0.06%	99.43%
80.0	13.182	1.441	2445.105	0.06%	99.49%
81.0	12.816	1.406	2446.511	0.05%	99.54%
82.0	12.436	1.369	2447.881	0.05%	99.60%
83.0	12.100	1.334	2449.215	0.05%	99.65%
84.0	11.778	1.301	2450.515	0.05%	99.71%
85.0	11.492	1.270	2451.785	0.05%	99.76%
86.0	11.192	1.240	2453.025	0.05%	99.81%
87.0	10.951	1.212	2454.237	0.05%	99.86%
88.0	10.761	1.189	2455.427	0.05%	99.91%
89.0	10.578	1.170	2456.596	0.05%	99.95%
90.0	10.497	1.156	2457.752	0.04%	100.00%

Zonal flux distribution table

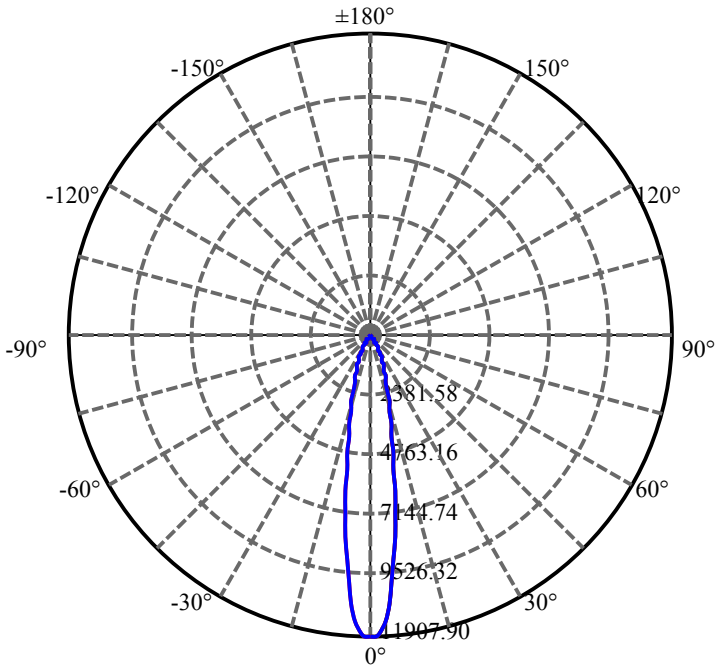
ZONAL LUMEN SUMMARY

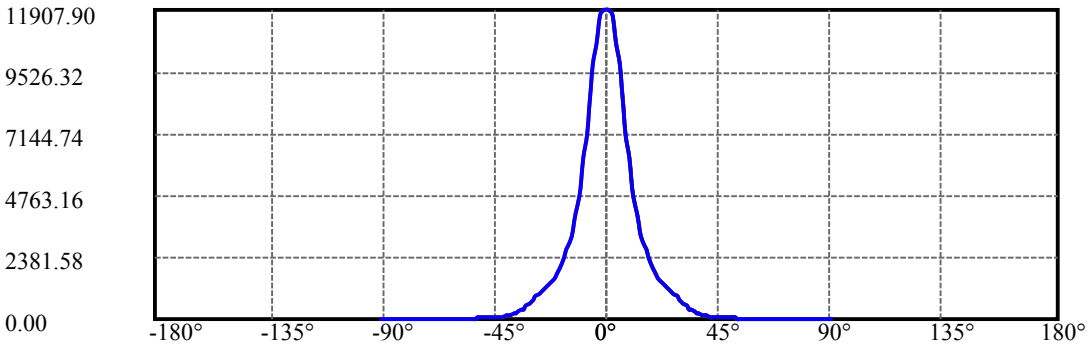
Zone	Lumens	%Lamp	%Fixt
0-30	2123.78	82.61%	86.41%
0-40	2322.78	90.35%	94.51%
0-60	2404.76	93.53%	97.84%
0-90	2456.60	95.55%	99.95%
0-120	2456.60	95.55%	99.95%
0-180	2457.75	95.60%	100.00%
60-90	51.84	2.02%	2.11%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.36	1966.20	76.48%	80.00%

ZONAL LUMEN SUMMARY

0-10	786.76
10-20	821.53
20-30	515.49
30-40	199.00
40-50	50.44
50-60	31.54
60-70	24.46
70-80	15.89
80-90	11.49
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:

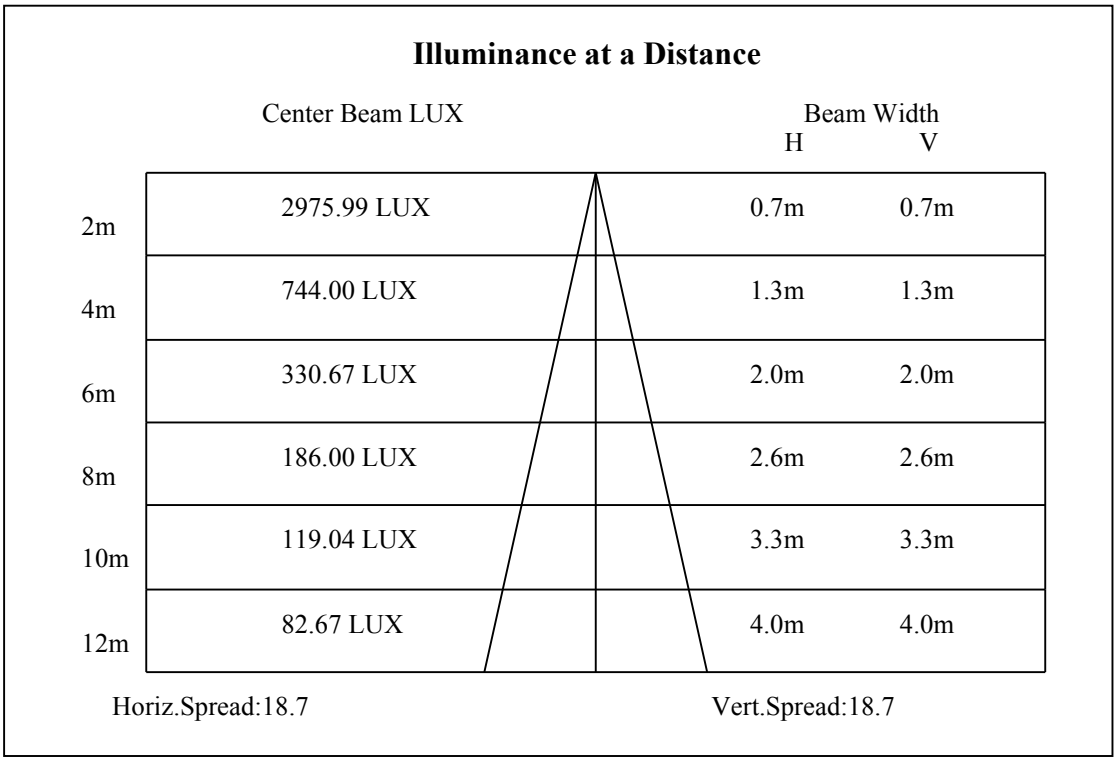
C90/C270:

Field angle(10%Imax):C0/180Left:25.4 Right:23.4
:C90/270Left:25.4 Right:23.4

Beam Angle(50%Imax):C0/180Left:10.3 Right:8.3
:C90/270Left:10.3 Right:8.3

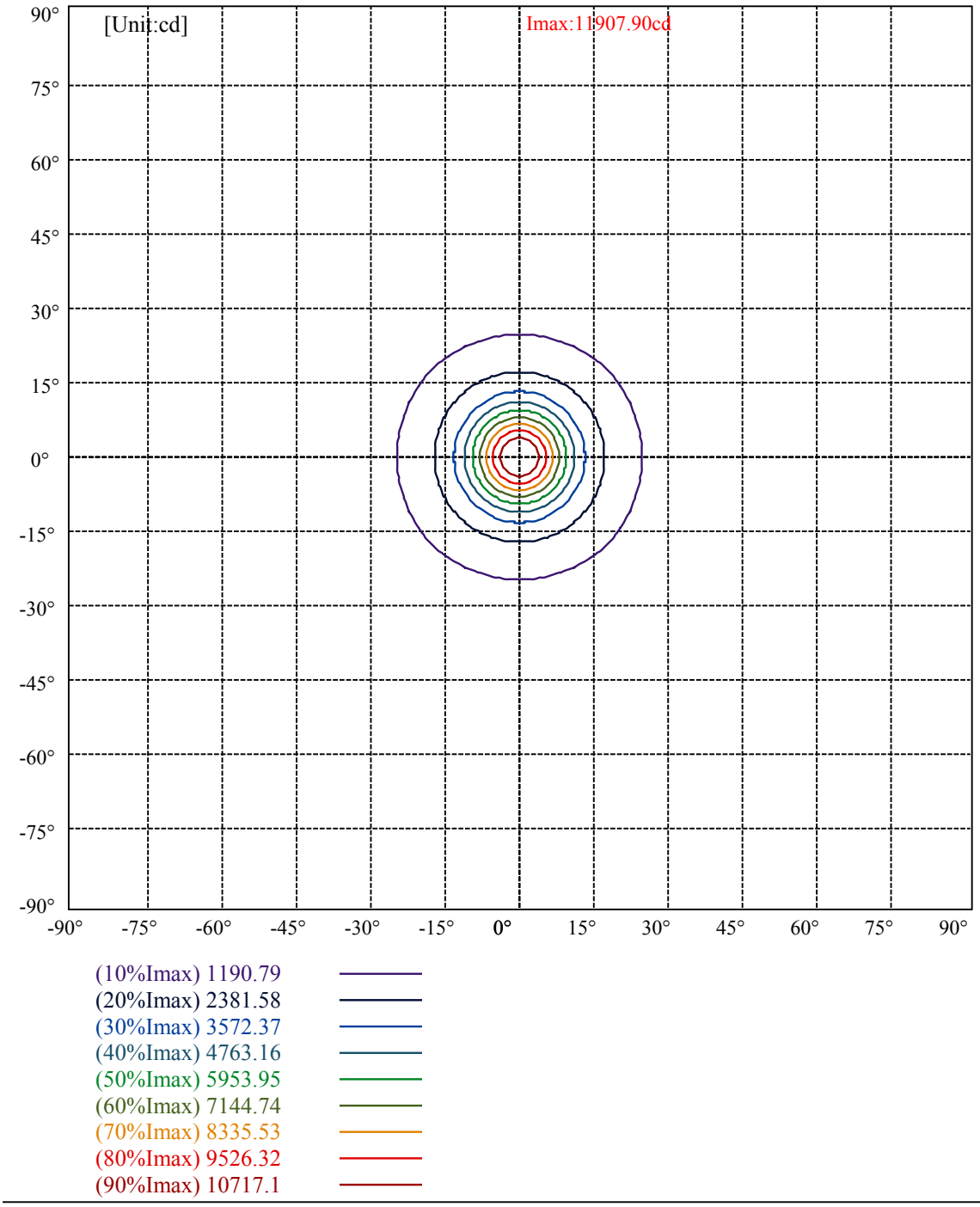
Equipment: GMS1980	Date: 2024/8/6	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

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)

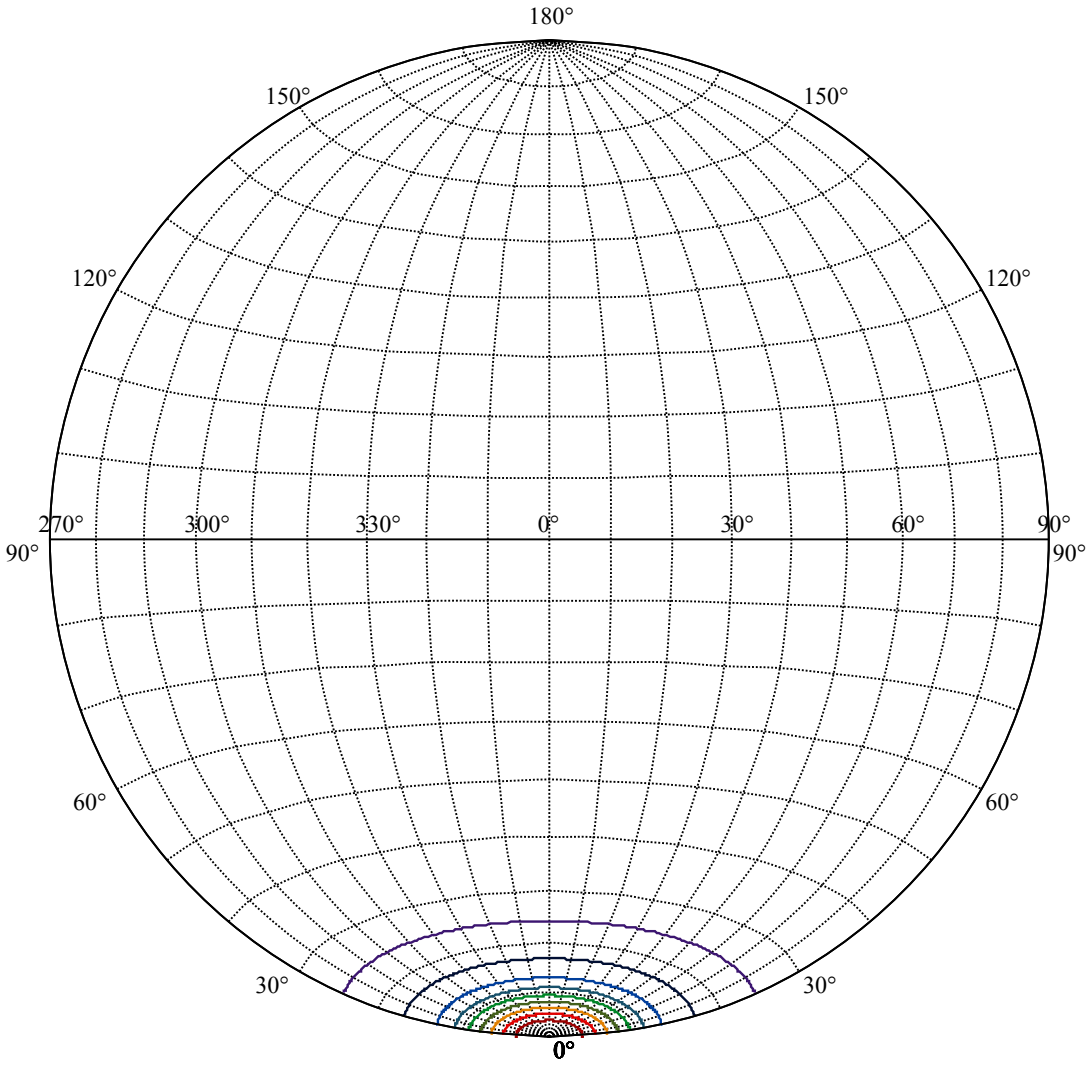


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



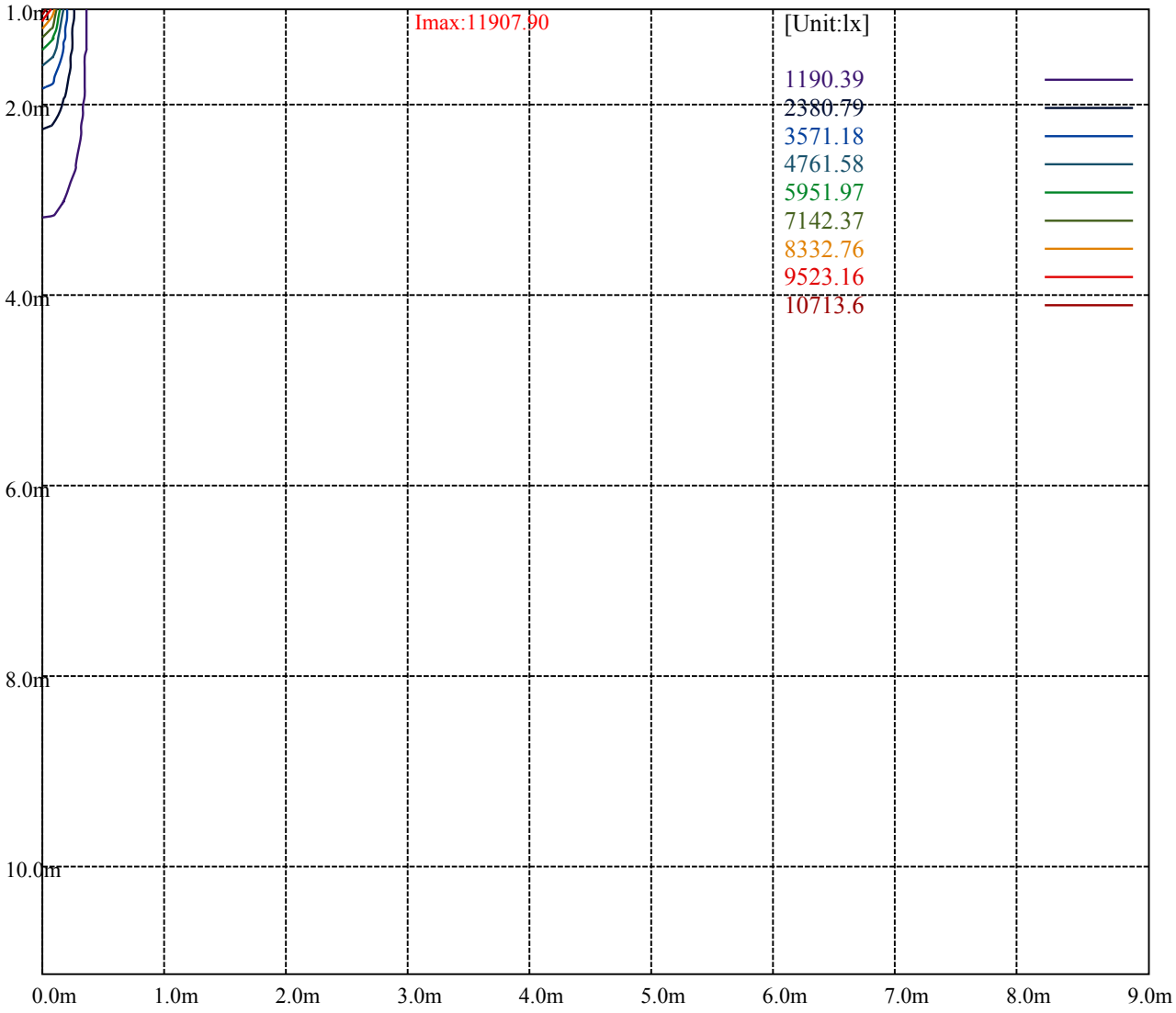
[Unit:cd]

Imax:11907.90

(10%Imax) 1190.79
(20%Imax) 2381.58
(30%Imax) 3572.37
(40%Imax) 4763.16
(50%Imax) 5953.95
(60%Imax) 7144.74
(70%Imax) 8335.53
(80%Imax) 9526.32
(90%Imax) 10717.1

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

NT 2-2751-L

Luminance Limitting Curve(no luminous side)

Luminance Table

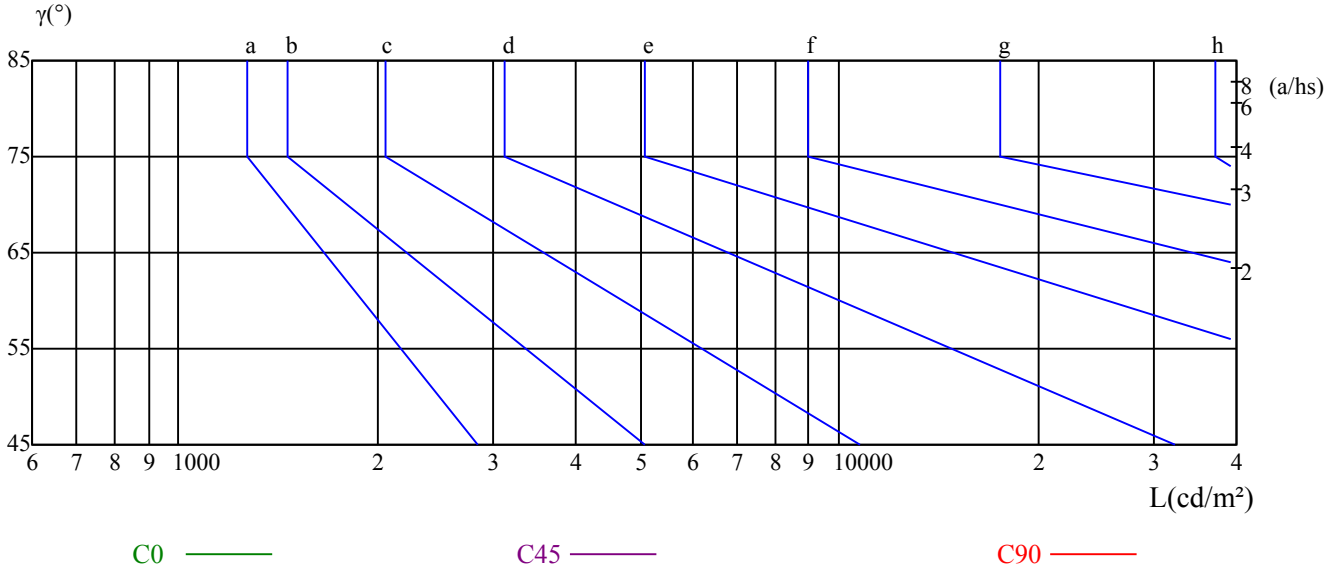
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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



Equipment: GMS1980
Temperature(°C): 25.0

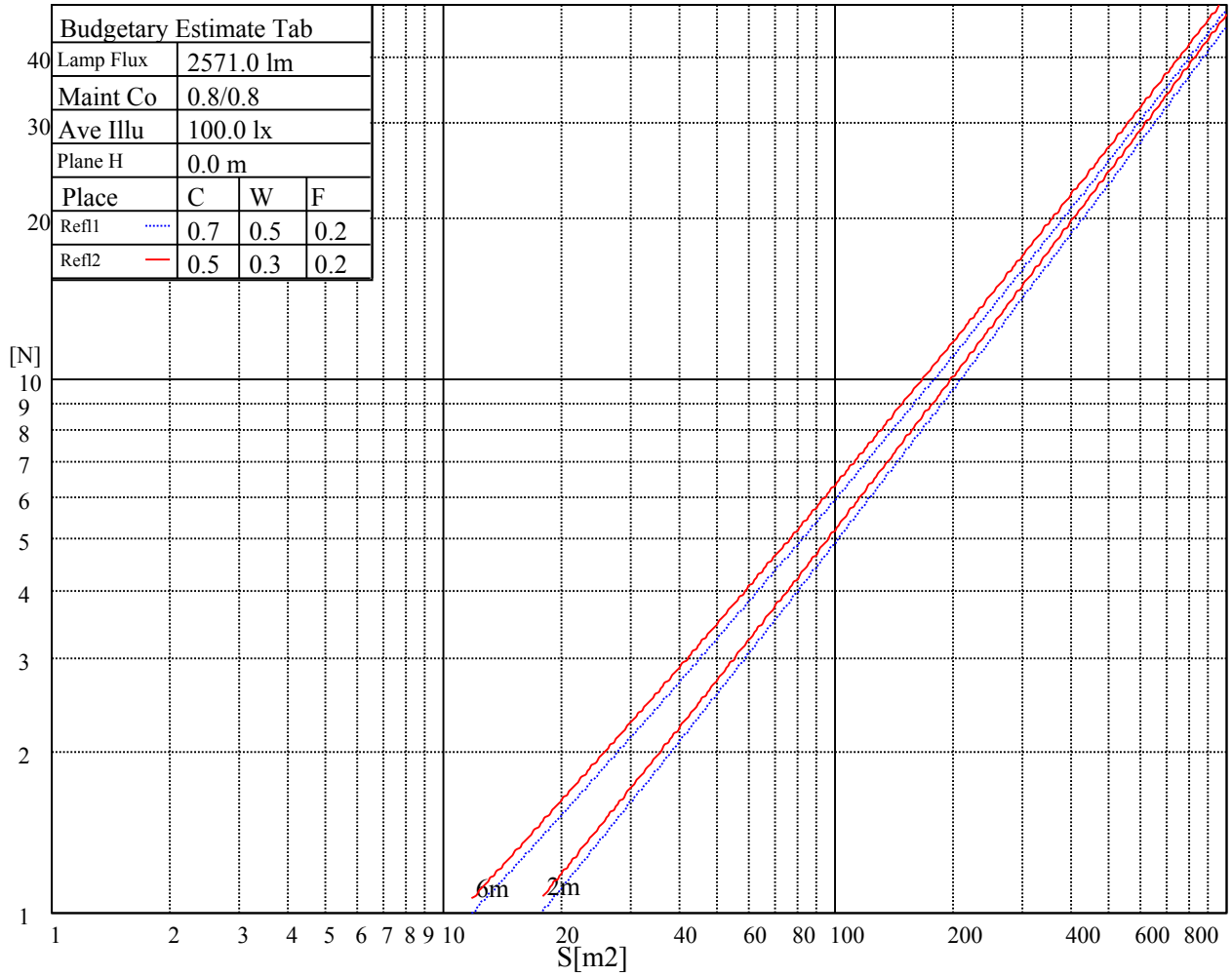
Date: 2024/8/6
Humidity(%): 60.0%

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

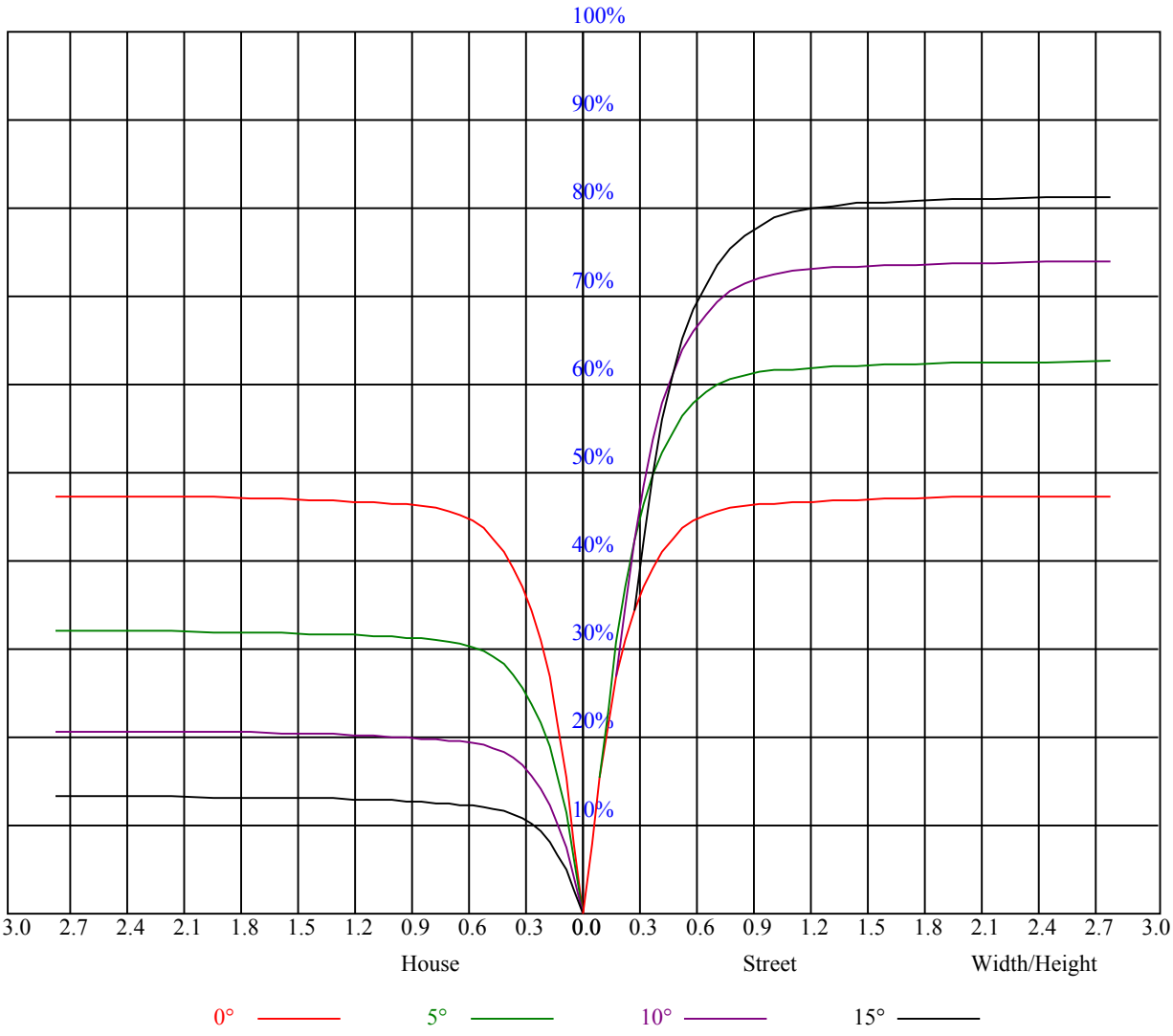


Equipment: GMS1980 Date: 2024/8/6 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

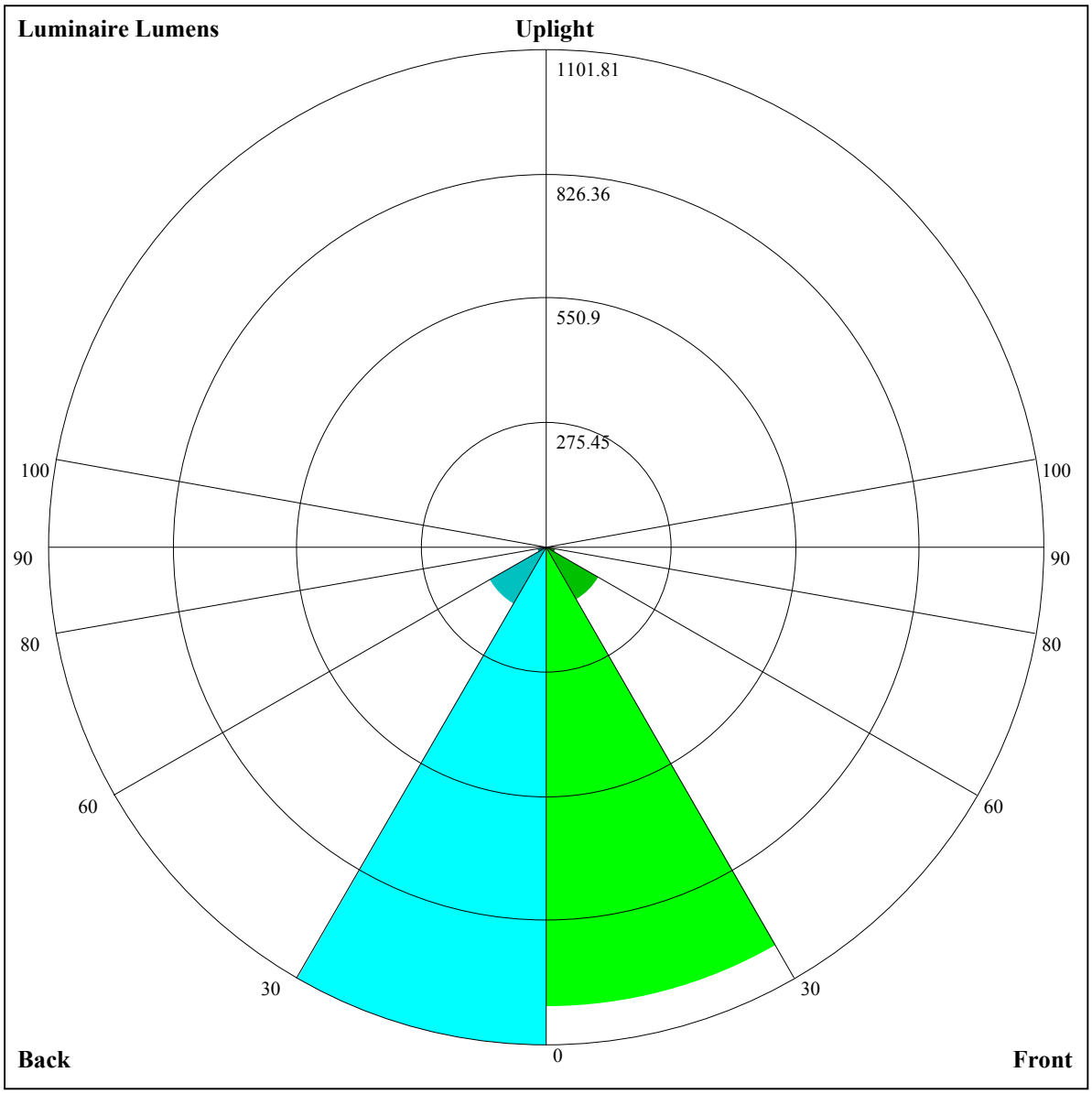
Utilization factor table for indoor luminaire

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	1.14	1.14	1.14	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.07	1.05	1.03	1.05	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91
2	1.01	0.98	0.95	0.99	0.96	0.94	0.96	0.94	0.92	0.93	0.92	0.90	0.91	0.89	0.88	0.86
3	0.96	0.92	0.89	0.94	0.91	0.88	0.92	0.89	0.87	0.90	0.87	0.85	0.88	0.86	0.84	0.83
4	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.86	0.84	0.81	0.85	0.82	0.80	0.79
5	0.87	0.83	0.79	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.78	0.82	0.79	0.77	0.76
6	0.84	0.79	0.76	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.73
7	0.81	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.72	0.70
8	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
9	0.75	0.70	0.68	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.66
10	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64

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=1019.3,FM=135.87,FH=19.74,FVH=6.25
BL=1101.81,BM=146.75,BH=20.57,BVH=6.38
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	11567.62	11567.62	11153.86	10493.73	9737.62	8685.97	7839.73	6983.55	6000.96
45.0	12234.71	12152.78	11895.28	11479.77	10736.54	9999.15	9179.84	8331.26	7295.41
90.0	12211.30	11574.05	11574.05	11171.42	10527.09	9560.29	8716.40	7846.76	6812.08
135.0	11602.14	12269.83	12223.01	11918.69	11491.48	10894.55	9987.45	9162.28	8272.74
180.0	11567.62	12258.12	12164.49	11918.69	11503.18	10742.39	10016.71	9179.84	8290.30
225.0	12234.71	11656.57	11656.57	11263.30	10435.79	9639.88	8537.91	7620.86	6702.06
270.0	12211.30	12182.04	11947.95	11561.71	10830.17	10116.20	9308.59	8436.60	7307.12
315.0	11602.14	11602.14	11207.70	10536.45	9775.07	8934.69	7827.44	6933.22	6110.39
360.0	11567.62	11567.62	11153.86	10493.73	9737.62	8685.97	7839.73	6983.55	6000.96

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5291.66	4658.45	4110.09	3631.96	3143.30	2822.60	2538.18	2243.23	2046.59
45.0	6493.66	5767.98	5089.12	4357.59	3860.14	3327.59	2982.31	2982.31	2353.25
90.0	6040.17	5158.23	4542.57	4019.38	3571.10	3092.39	2770.51	2491.95	2259.61
135.0	7195.93	6388.32	5639.23	4796.50	4217.13	3737.25	3321.74	2953.05	2953.05
180.0	7172.52	6318.09	5528.04	4656.05	4070.83	3585.09	3105.20	3017.42	3017.42
225.0	5673.23	4947.55	4330.72	3798.75	3261.52	2916.23	2620.70	2357.34	2078.19
270.0	6446.84	5463.66	4749.69	4158.61	3532.42	3134.47	2964.75	2964.75	2215.72
315.0	5172.86	4528.53	3864.88	3411.34	3043.23	2658.74	2393.63	2162.46	1968.17
360.0	5291.66	4658.45	4110.09	3631.96	3143.30	2822.60	2538.18	2243.23	2046.59

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1882.14	1710.09	1590.70	1455.51	1280.53	1153.89	1153.89	1040.65	953.74
45.0	2143.74	1964.07	1809.57	1652.73	1538.03	1433.27	1332.03	1218.50	1129.54
90.0	2019.67	1859.32	1722.38	1577.24	1464.29	1362.46	1154.71	1154.71	1070.26
135.0	2338.03	2126.77	1947.10	1755.15	1628.74	1513.45	1386.46	1288.72	1179.29
180.0	2190.56	1999.77	1836.49	1691.36	1533.93	1420.98	1320.33	1227.28	1119.59
225.0	1895.02	1739.35	1604.75	1453.17	1279.36	1159.27	1136.39	1047.14	941.33
270.0	2007.97	1835.91	1661.51	1538.03	1421.57	1316.81	1195.09	1113.16	1025.96
315.0	1765.68	1629.32	1509.35	1402.26	1163.13	1163.13	1099.46	1014.37	905.34
360.0	1882.14	1710.09	1590.70	1455.51	1280.53	1153.89	1153.89	1040.65	953.74

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	867.13	777.24	665.52	576.68	490.24	415.57	352.60	289.86	248.55
45.0	1041.17	930.57	840.44	752.66	639.12	550.17	465.31	377.53	319.59
90.0	956.43	865.20	775.60	660.48	568.14	482.17	406.32	330.54	281.73
135.0	1089.16	995.53	881.99	792.45	700.57	608.11	500.43	423.76	358.80
180.0	1031.81	948.12	865.61	751.49	664.29	551.93	468.82	396.84	323.69
225.0	858.29	772.15	688.05	579.90	496.33	421.19	357.46	293.49	250.94
270.0	914.77	831.08	746.22	634.44	543.15	462.97	373.43	318.42	306.13
315.0	814.57	726.26	616.48	531.33	435.17	369.80	316.31	272.54	225.14
360.0	867.13	777.24	665.52	576.68	490.24	415.57	352.60	289.86	248.55

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	205.41	176.33	150.52	123.89	106.92	92.58	77.72	68.06	60.57
45.0	295.01	295.01	189.91	161.76	138.11	114.29	99.14	86.15	75.32
90.0	241.87	207.58	170.36	145.08	125.06	104.52	90.48	78.89	67.42
135.0	306.13	306.13	213.67	181.77	149.06	127.29	109.55	91.12	79.53
180.0	299.11	299.11	199.74	163.51	138.70	118.39	101.13	83.80	72.33
225.0	214.02	175.63	149.88	122.55	104.52	89.66	77.13	64.37	56.36
270.0	306.13	191.49	163.80	139.99	119.33	98.84	85.21	74.38	63.26
315.0	193.24	164.68	140.34	115.23	99.02	85.27	71.81	63.09	56.65
360.0	205.41	176.33	150.52	123.89	106.92	92.58	77.72	68.06	60.57

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	54.72	49.04	46.00	43.31	41.02	38.74	37.69	36.17	35.41
45.0	64.32	57.88	52.90	47.87	45.12	42.43	39.50	38.10	36.81
90.0	60.34	54.66	49.10	45.53	42.60	39.91	37.75	36.58	35.41
135.0	67.36	60.16	54.43	49.80	45.59	42.78	40.32	38.27	36.81
180.0	63.09	54.72	49.92	46.23	43.07	41.20	39.33	37.34	36.52
225.0	50.39	46.23	42.19	40.09	38.45	36.81	35.23	34.59	33.47
270.0	56.30	51.15	46.35	43.60	41.49	39.27	37.51	36.40	35.41
315.0	50.39	46.70	43.89	40.97	38.98	37.28	36.17	34.88	34.06
360.0	54.72	49.04	46.00	43.31	41.02	38.74	37.69	36.17	35.41

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	35.29	35.23	34.94	34.94	34.70	33.77	32.60	31.31	28.38
45.0	35.35	34.88	34.82	34.47	34.24	34.41	34.00	33.01	31.60
90.0	34.65	34.53	34.59	34.59	34.88	34.76	33.59	32.25	30.67
135.0	35.52	34.47	34.06	33.94	33.83	33.83	33.83	33.42	32.07
180.0	35.52	34.41	34.35	34.35	34.24	34.24	34.59	34.24	33.18
225.0	32.95	32.83	32.95	32.77	33.01	33.36	32.95	32.07	31.13
270.0	34.41	34.18	34.24	34.24	34.00	34.18	34.12	32.95	31.89
315.0	34.06	34.06	33.88	33.88	33.83	33.24	31.95	30.43	27.97
360.0	35.29	35.23	34.94	34.94	34.70	33.77	32.60	31.31	28.38

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.98	24.11	22.18	20.42	19.43	18.55	17.67	17.09	16.44
45.0	29.79	26.63	24.52	22.59	20.42	19.31	18.38	17.67	16.85
90.0	28.09	25.16	23.12	21.07	19.72	18.43	17.62	16.97	16.27
135.0	31.02	29.20	26.57	23.94	21.95	20.31	19.14	18.08	17.38
180.0	31.84	29.73	26.39	24.46	22.47	20.60	19.61	18.73	18.02
225.0	28.38	25.93	23.94	21.83	19.96	18.90	17.97	17.15	16.50
270.0	29.61	26.69	24.58	22.18	20.42	19.25	18.32	17.32	16.68
315.0	25.52	23.00	21.07	19.72	18.73	17.73	17.03	16.50	15.98
360.0	25.98	24.11	22.18	20.42	19.43	18.55	17.67	17.09	16.44

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.98	15.51	15.10	14.75	14.46	14.10	13.81	13.40	12.99
45.0	16.33	15.86	15.39	14.92	14.57	14.28	13.93	13.64	13.34
90.0	15.86	15.45	14.98	14.63	14.28	13.99	13.69	13.34	12.87
135.0	16.80	16.15	15.68	15.27	14.86	14.51	14.28	13.87	13.58
180.0	17.26	16.68	16.21	15.74	15.22	14.92	14.63	14.22	13.93
225.0	15.92	15.45	14.98	14.63	14.34	14.05	13.75	13.46	12.99
270.0	16.09	15.63	15.04	14.69	14.40	14.05	13.75	13.46	13.05
315.0	15.45	15.04	14.69	14.34	14.10	13.69	13.40	13.05	12.70
360.0	15.98	15.51	15.10	14.75	14.46	14.10	13.81	13.40	12.99

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.64	12.23	11.94	11.59	11.35	11.06	10.89	10.71	10.48
45.0	12.82	12.47	12.06	11.70	11.41	11.12	10.89	10.71	10.48
90.0	12.52	12.11	11.88	11.53	11.29	11.06	10.77	10.59	10.42
135.0	13.28	12.82	12.47	12.11	11.82	11.47	11.12	10.94	10.71
180.0	13.52	13.17	12.76	12.47	12.11	11.70	11.47	11.24	11.00
225.0	12.70	12.35	12.00	11.70	11.41	11.12	10.89	10.71	10.53
270.0	12.70	12.35	12.00	11.70	11.41	11.12	10.89	10.65	10.48
315.0	12.35	12.00	11.70	11.41	11.12	10.89	10.71	10.53	10.53
360.0	12.64	12.23	11.94	11.59	11.35	11.06	10.89	10.71	10.48

Intensity data(cd)

C/γ(°)	90.0
0.0	10.48
45.0	10.42
90.0	10.42
135.0	10.53
180.0	10.65
225.0	10.48
270.0	10.48
315.0	10.53
360.0	10.48