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: 2-2518-L
Luminaire: 92.70.412.00
Report No: 2024807-B007
Ballast type: AC

Test No: 2024807-C007	Voltage(V): 35.000
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.450
Lamp flux(lm): 2561.0	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): 2398.75, Efficiency(%): 93.66% , Luminous Efficacy(lm/W): 152.30
Central intensity(cd): 12307.590, Maximum intensity(cd): 12307.590
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=18.4
[C90/270]Total=18.4
Field angle(10%Imax): [C0/180]Total=47.0
[C90/270]Total=47.0
Maximum s/h(1/2): C0_180=0.31 C90_270=0.31
Maximum s/h(1/4): C0_180=0.34 C90_270=0.34
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.66%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.769%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12307.589	0.000	0	0.00%	0.00%
1.0	12241.539	11.746	11.746	0.46%	0.49%
2.0	11973.294	34.755	46.502	1.36%	1.94%
3.0	11519.964	56.188	102.69	2.19%	4.28%
4.0	10874.388	74.961	177.651	2.93%	7.41%
5.0	10066.777	90.088	267.739	3.52%	11.16%
6.0	9146.877	100.973	368.712	3.94%	15.37%
7.0	8197.788	107.658	476.37	4.20%	19.86%
8.0	7204.807	110.233	586.603	4.30%	24.45%
9.0	6307.950	109.514	696.117	4.28%	29.02%
10.0	5498.072	106.840	802.957	4.17%	33.47%
11.0	4783.512	102.734	905.691	4.01%	37.76%
12.0	4135.668	97.499	1003.19	3.81%	41.82%
13.0	3625.206	92.102	1095.292	3.60%	45.66%
14.0	3201.722	87.384	1182.676	3.41%	49.30%
15.0	2881.677	83.516	1266.192	3.26%	52.79%
16.0	2643.571	80.960	1347.152	3.16%	56.16%
17.0	2480.074	79.789	1426.941	3.12%	59.49%
18.0	2104.528	75.590	1502.531	2.95%	62.64%
19.0	1910.452	69.852	1572.384	2.73%	65.55%
20.0	1745.858	66.921	1639.305	2.61%	68.34%
21.0	1553.531	63.355	1702.66	2.47%	70.98%
22.0	1395.389	59.260	1761.919	2.31%	73.45%
23.0	1279.829	56.133	1818.053	2.19%	75.79%
24.0	1171.613	53.597	1871.65	2.09%	78.03%
25.0	1069.052	50.948	1922.598	1.99%	80.15%
26.0	957.479	47.837	1970.434	1.87%	82.14%
27.0	850.288	44.227	2014.662	1.73%	83.99%
28.0	747.508	40.453	2055.114	1.58%	85.67%
29.0	650.009	36.563	2091.677	1.43%	87.20%
30.0	558.575	32.632	2124.309	1.27%	88.56%
31.0	479.168	28.879	2153.188	1.13%	89.76%
32.0	402.884	25.270	2178.458	0.99%	90.82%
33.0	335.612	21.756	2200.214	0.85%	91.72%
34.0	280.659	18.650	2218.864	0.73%	92.50%
35.0	244.609	16.313	2235.177	0.64%	93.18%
36.0	208.399	14.424	2249.601	0.56%	93.78%
37.0	152.195	11.761	2261.361	0.46%	94.27%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	120.469	9.101	2270.463	0.36%	94.65%
39.0	98.084	7.460	2277.922	0.29%	94.96%
40.0	82.261	6.290	2284.212	0.25%	95.23%
41.0	69.188	5.393	2289.605	0.21%	95.45%
42.0	60.468	4.711	2294.316	0.18%	95.65%
43.0	53.263	4.213	2298.529	0.16%	95.82%
44.0	48.362	3.836	2302.364	0.15%	95.98%
45.0	44.228	3.558	2305.923	0.14%	96.13%
46.0	40.915	3.330	2309.252	0.13%	96.27%
47.0	38.201	3.147	2312.399	0.12%	96.40%
48.0	35.874	2.994	2315.394	0.12%	96.52%
49.0	33.643	2.855	2318.248	0.11%	96.64%
50.0	31.961	2.735	2320.984	0.11%	96.76%
51.0	30.476	2.642	2323.625	0.10%	96.87%
52.0	29.144	2.558	2326.184	0.10%	96.97%
53.0	28.062	2.488	2328.672	0.10%	97.08%
54.0	27.147	2.433	2331.105	0.10%	97.18%
55.0	26.372	2.389	2333.494	0.09%	97.28%
56.0	25.794	2.357	2335.852	0.09%	97.38%
57.0	25.413	2.341	2338.193	0.09%	97.48%
58.0	25.157	2.339	2340.531	0.09%	97.57%
59.0	25.055	2.347	2342.879	0.09%	97.67%
60.0	24.967	2.363	2345.242	0.09%	97.77%
61.0	24.960	2.383	2347.625	0.09%	97.87%
62.0	24.901	2.403	2350.027	0.09%	97.97%
63.0	24.762	2.415	2352.443	0.09%	98.07%
64.0	24.433	2.414	2354.857	0.09%	98.17%
65.0	24.009	2.397	2357.254	0.09%	98.27%
66.0	23.650	2.378	2359.632	0.09%	98.37%
67.0	23.160	2.354	2361.986	0.09%	98.47%
68.0	22.685	2.322	2364.308	0.09%	98.56%
69.0	22.129	2.286	2366.594	0.09%	98.66%
70.0	21.427	2.237	2368.831	0.09%	98.75%
71.0	20.241	2.154	2370.985	0.08%	98.84%
72.0	18.947	2.038	2373.022	0.08%	98.93%
73.0	17.571	1.910	2374.932	0.07%	99.01%
74.0	16.291	1.780	2376.712	0.07%	99.08%
75.0	15.428	1.676	2378.388	0.07%	99.15%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.777	1.603	2379.992	0.06%	99.22%
77.0	14.316	1.551	2381.543	0.06%	99.28%
78.0	13.936	1.512	2383.055	0.06%	99.35%
79.0	13.614	1.480	2384.535	0.06%	99.41%
80.0	13.277	1.450	2385.985	0.06%	99.47%
81.0	12.933	1.417	2387.403	0.06%	99.53%
82.0	12.648	1.387	2388.79	0.05%	99.58%
83.0	12.370	1.360	2390.15	0.05%	99.64%
84.0	12.092	1.333	2391.482	0.05%	99.70%
85.0	11.778	1.303	2392.785	0.05%	99.75%
86.0	11.251	1.259	2394.044	0.05%	99.80%
87.0	10.914	1.213	2395.257	0.05%	99.85%
88.0	10.688	1.183	2396.44	0.05%	99.90%
89.0	10.534	1.163	2397.604	0.05%	99.95%
90.0	10.395	1.148	2398.751	0.04%	100.00%

Zonal flux distribution table

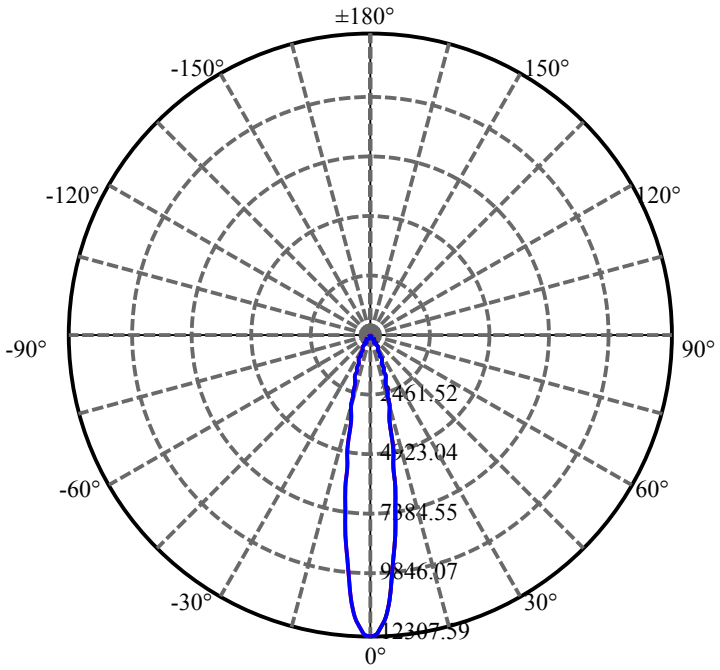
ZONAL LUMEN SUMMARY

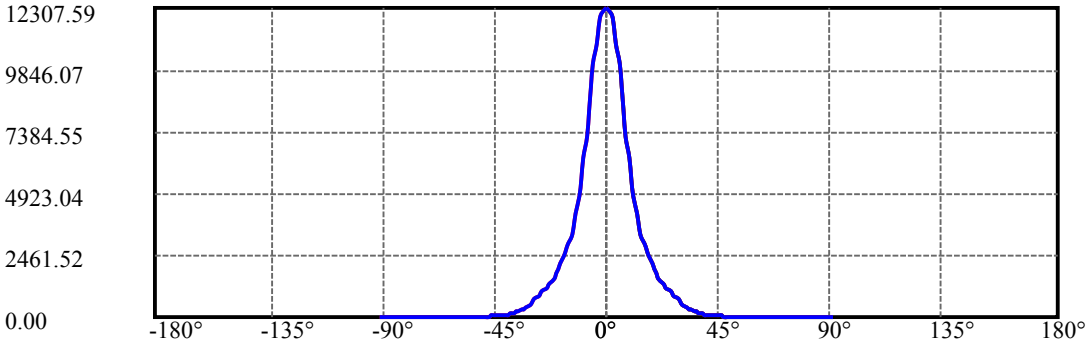
Zone	Lumens	%Lamp	%Fixt
0-30	2124.31	82.95%	88.56%
0-40	2284.21	89.19%	95.23%
0-60	2345.24	91.58%	97.77%
0-90	2397.60	93.62%	99.95%
0-120	2397.60	93.62%	99.95%
0-180	2398.75	93.66%	100.00%
60-90	52.36	2.04%	2.18%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.93	1919.00	74.93%	80.00%

ZONAL LUMEN SUMMARY

0-10	802.96
10-20	836.35
20-30	485.00
30-40	159.90
40-50	36.77
50-60	24.26
60-70	23.59
70-80	17.15
80-90	11.62
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):

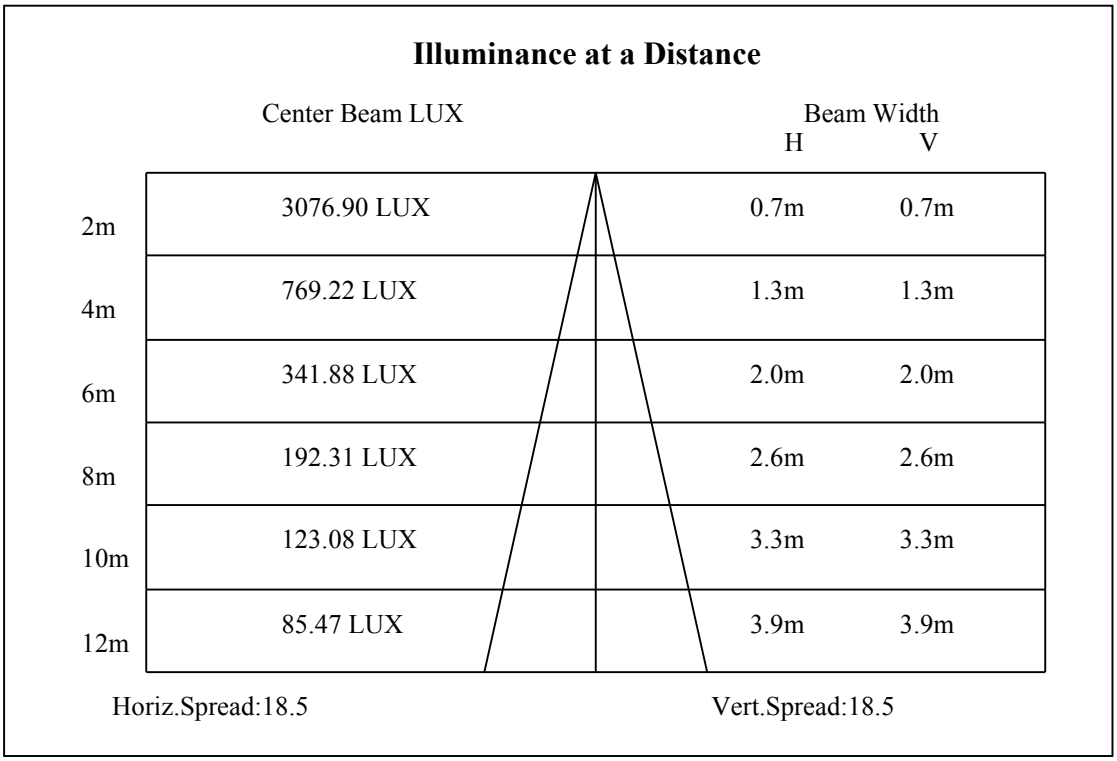
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:23.5 Right:23.5
:C90/270Left:23.5 Right:23.5

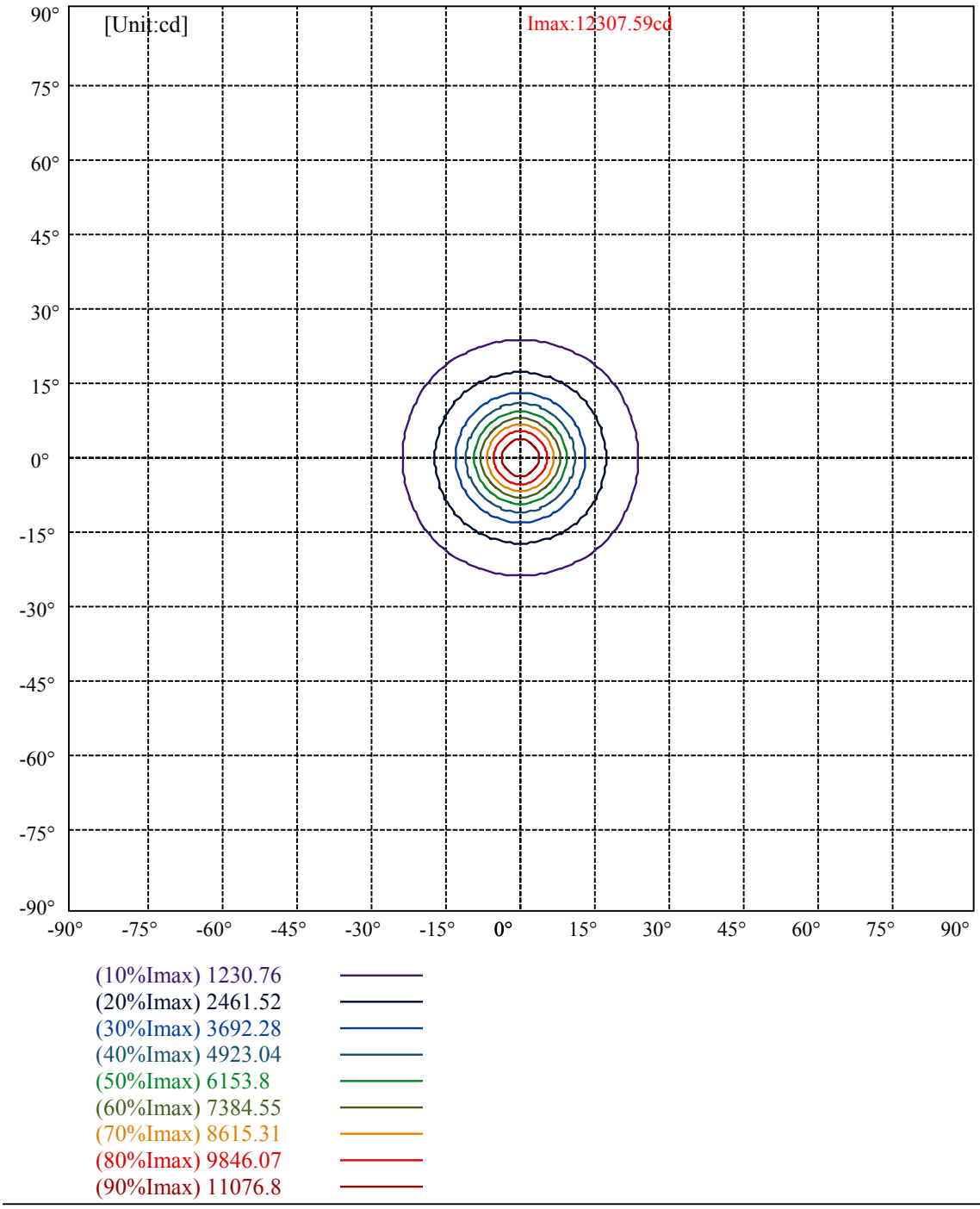
Beam Angle(50%Imax):C0/180Left:9.2 Right:9.2
:C90/270Left:9.2 Right:9.2

Lux distance Curve



Equipment: GMS1980 Date: 2024/8/7 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)



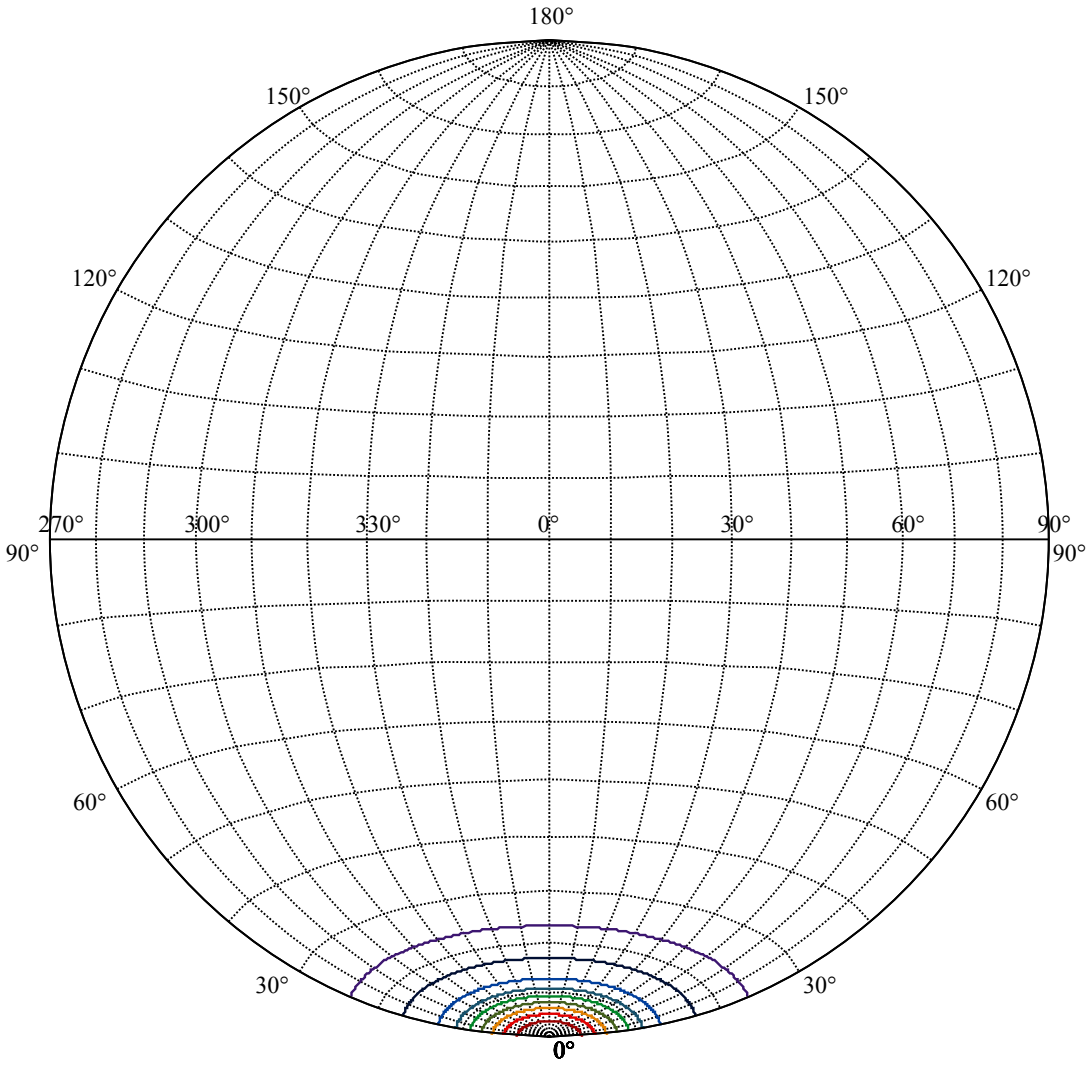
(10%Imax) 1230.76
(20%Imax) 2461.52
(30%Imax) 3692.28
(40%Imax) 4923.04
(50%Imax) 6153.8
(60%Imax) 7384.55
(70%Imax) 8615.31
(80%Imax) 9846.07
(90%Imax) 11076.8

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/7
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



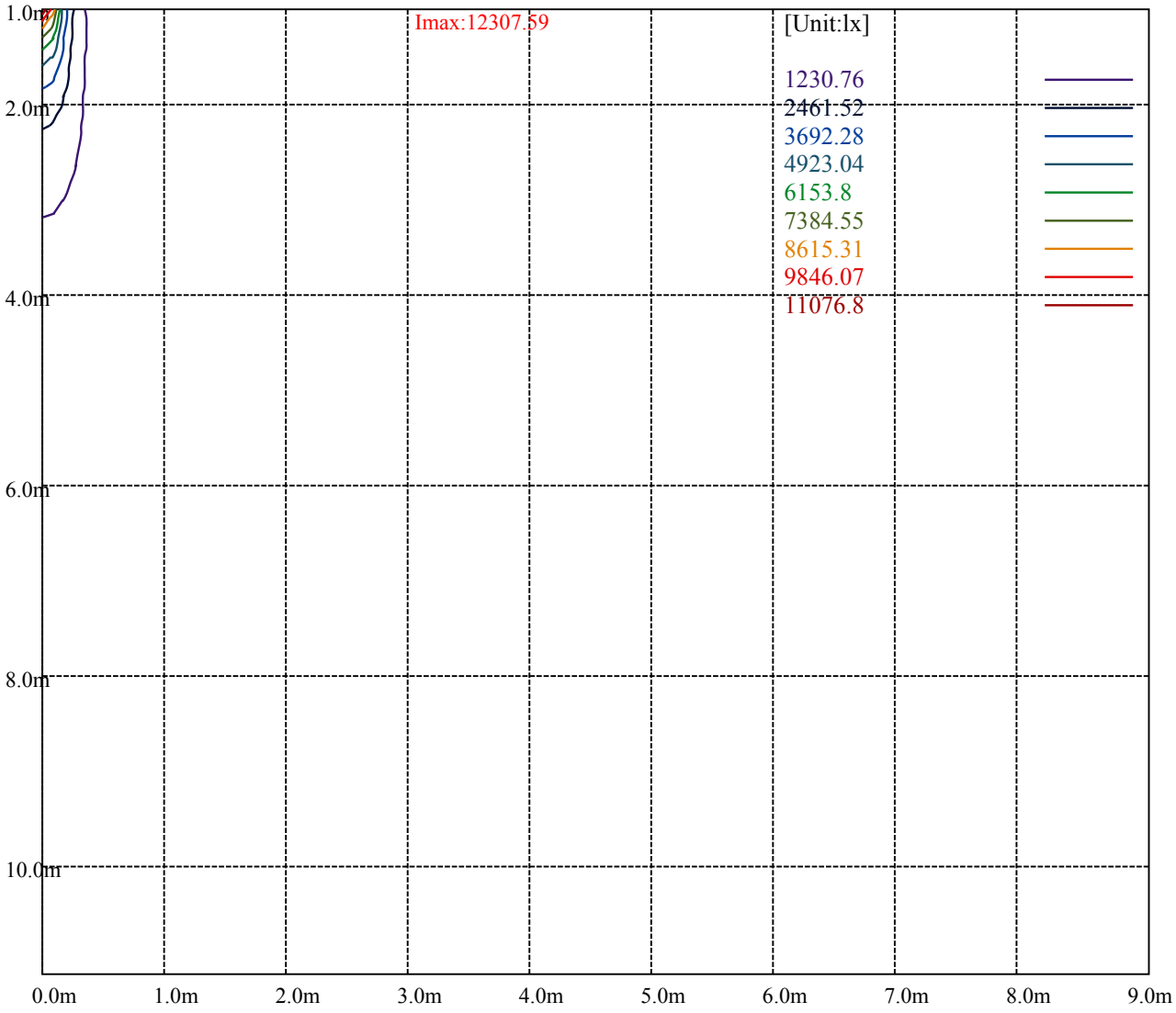
[Unit:cd]

Imax:12307.59

(10%Imax) 1230.76
(20%Imax) 2461.52
(30%Imax) 3692.28
(40%Imax) 4923.04
(50%Imax) 6153.8
(60%Imax) 7384.55
(70%Imax) 8615.31
(80%Imax) 9846.07
(90%Imax) 11076.8

Equipment: GMS1980	Date: 2024/8/7	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/7
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 2-2518-L

Luminance Limitting Curve(no luminous side)

Luminance Table

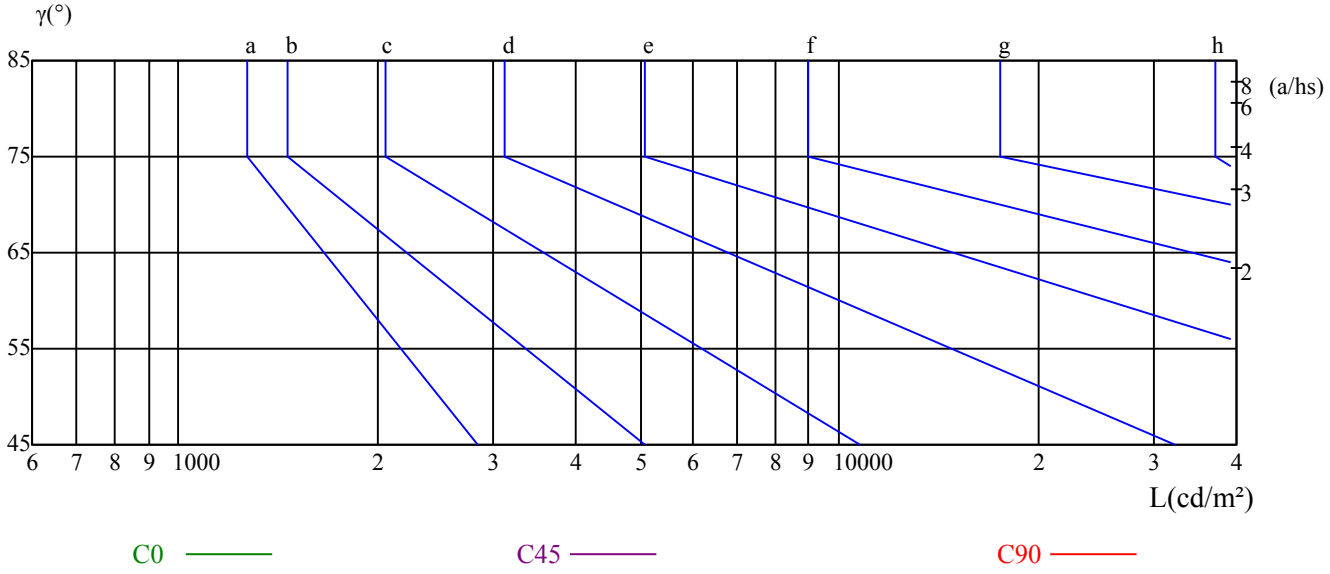
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

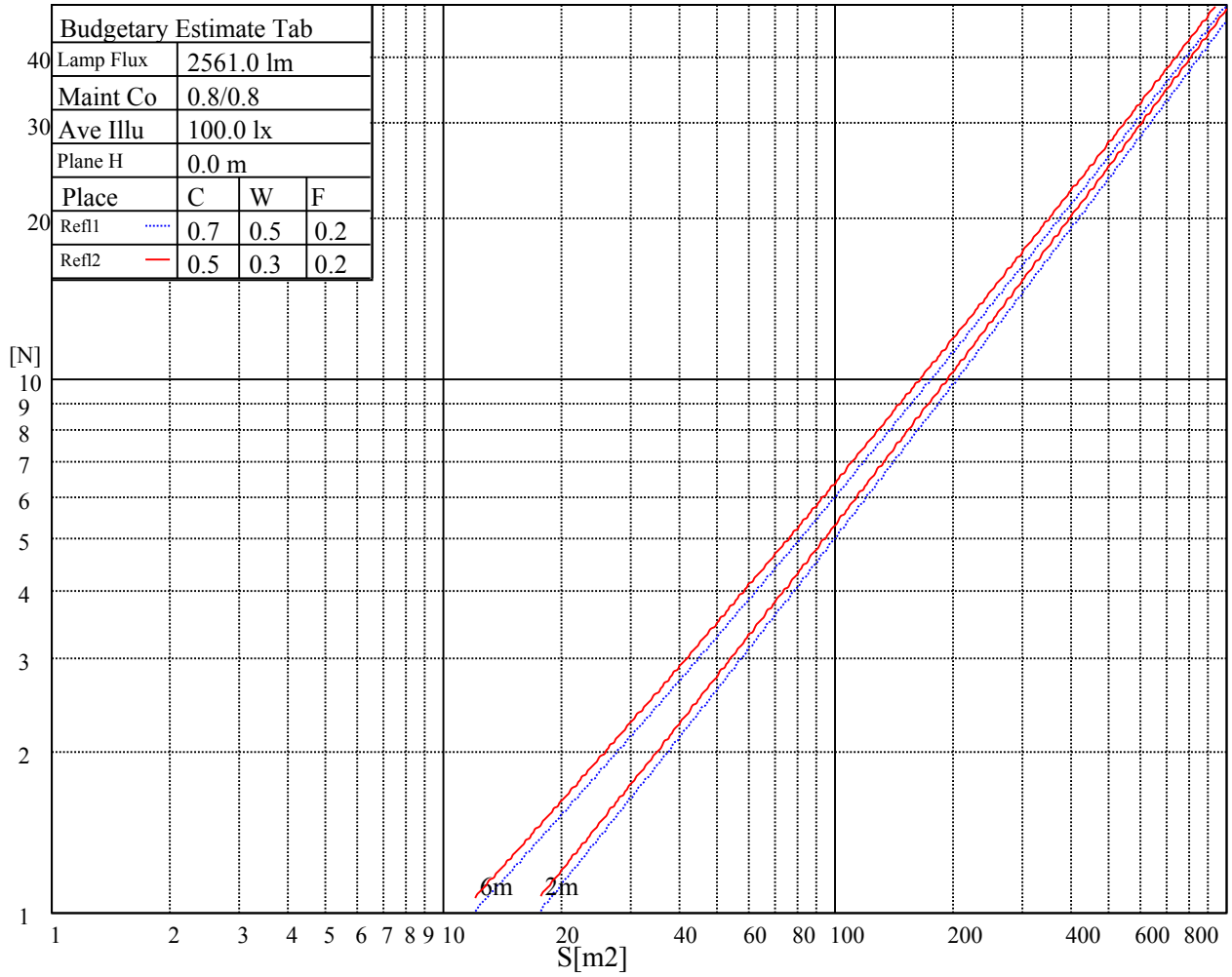
Luminance Limitting Curve



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

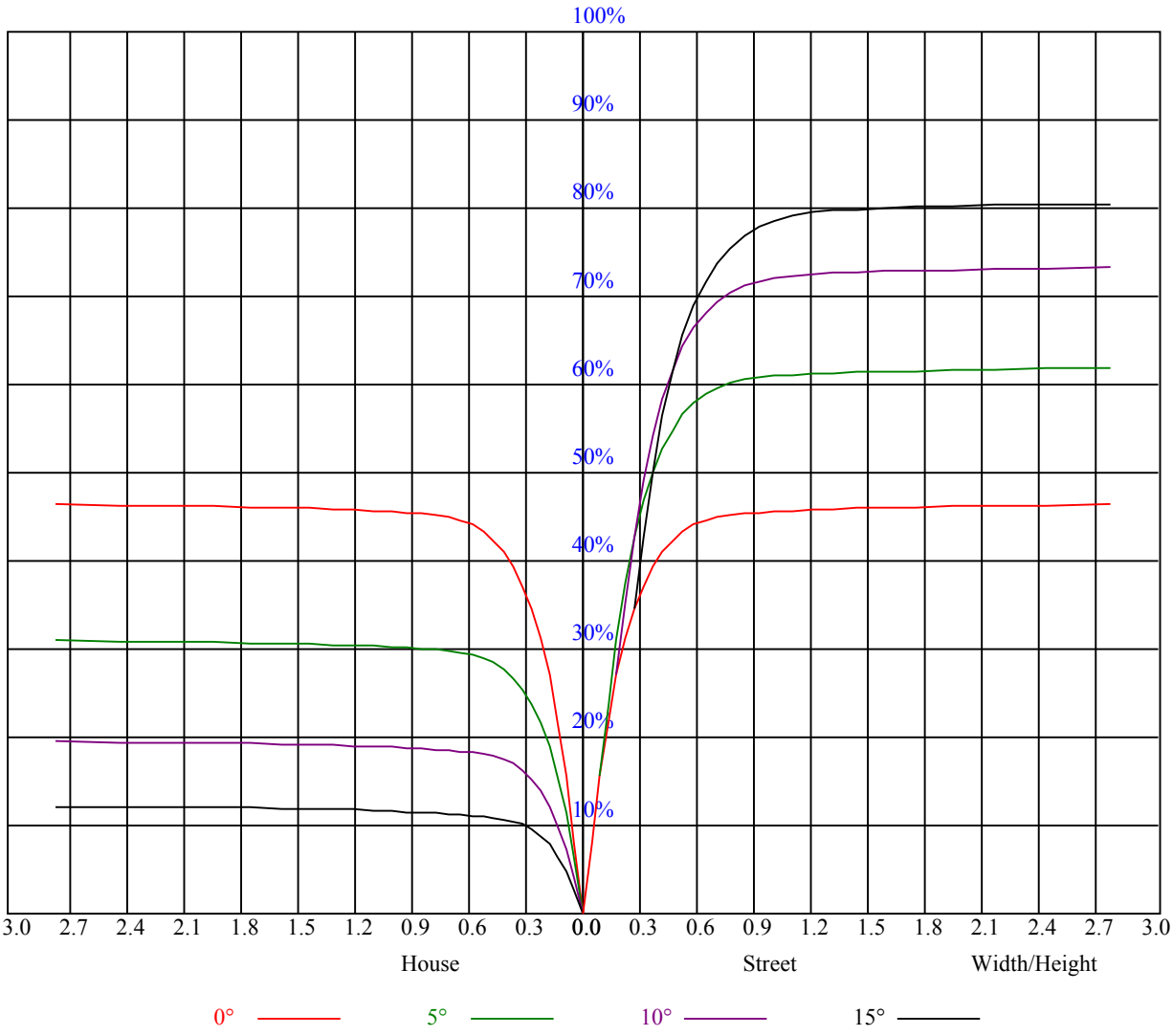


Equipment: GMS1980 Date: 2024/8/7 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

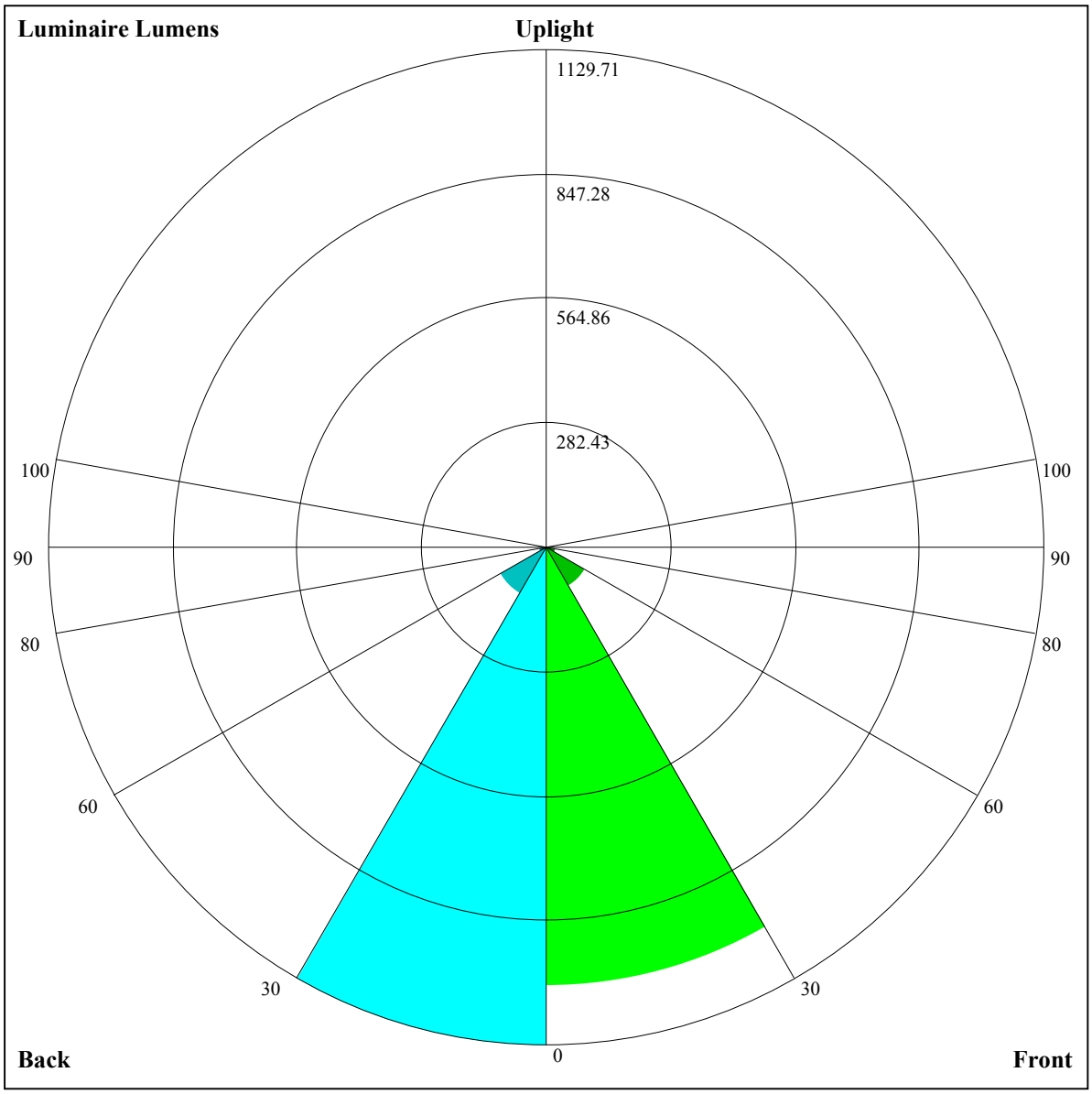
Utilization factor table for indoor luminaire

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	1.12	1.12	1.12	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.98	0.96	0.96	0.94	0.93	0.92	0.92	0.91	0.89
2	0.99	0.96	0.93	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.87	0.85
3	0.94	0.91	0.87	0.93	0.90	0.87	0.91	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.82
4	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.83	0.80	0.84	0.81	0.80	0.78
5	0.86	0.82	0.79	0.86	0.82	0.79	0.84	0.80	0.78	0.83	0.80	0.77	0.81	0.79	0.77	0.75
6	0.83	0.79	0.75	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
7	0.80	0.76	0.73	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
8	0.77	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	0.73	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: 2024/8/7	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=997.1,FM=100.69,FH=20.75,FVH=6.33
BL=1129.71,BM=122.82,BH=19.95,BVH=6.43
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	11636.67	11636.67	11325.92	10603.75	9585.46	8691.82	7793.50	6906.88	5841.19
45.0	12673.63	12486.36	11983.07	11421.25	10718.98	9887.96	8805.30	7904.05	6809.68
90.0	12527.33	11671.79	11671.79	11019.26	10259.64	9392.92	8296.21	7377.40	6515.95
135.0	12392.72	12638.52	12533.18	12269.83	11620.23	10935.51	10168.87	9308.59	8184.96
180.0	11636.67	12638.52	12656.08	12433.69	12035.74	11333.47	10637.05	9554.38	8670.69
225.0	12673.63	12644.37	11593.37	11593.37	11272.08	10527.67	9646.32	8509.23	7604.47
270.0	12527.33	12597.55	12404.43	12041.59	11520.74	10666.31	9858.70	8957.45	7810.41
315.0	12392.72	11618.53	11618.53	10776.98	9982.24	9098.55	7969.07	7064.31	6201.10
360.0	11636.67	11636.67	11325.92	10603.75	9585.46	8691.82	7793.50	6906.88	5841.19

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5098.54	4447.18	3768.91	3332.33	2903.36	2629.47	2404.16	2201.67	1982.22
45.0	5961.10	5241.28	4445.37	3906.96	3450.49	3093.50	3005.72	2685.66	2263.12
90.0	5536.87	4854.50	4255.81	3743.16	3234.01	2901.02	2627.72	2329.25	2126.18
135.0	7272.01	6423.43	5621.67	4743.83	4152.76	3661.17	3157.87	2994.01	2994.01
180.0	7757.74	6663.37	5838.20	5077.41	4416.11	3737.25	3304.18	3029.12	3029.12
225.0	6503.08	5688.45	4988.52	4222.46	3722.67	3302.48	2882.29	2605.48	2375.49
270.0	6932.58	6107.41	5352.47	4533.15	3977.19	3526.57	3157.87	3005.72	3005.72
315.0	5401.69	4558.96	3997.15	3526.04	3145.06	2762.32	2513.60	2297.65	2064.73
360.0	5098.54	4447.18	3768.91	3332.33	2903.36	2629.47	2404.16	2201.67	1982.22

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1820.11	1666.19	1526.91	1164.60	1164.60	1137.27	1029.76	903.35	803.34
45.0	2076.44	1861.66	1705.40	1560.85	1432.10	1279.36	1169.34	1038.25	935.25
90.0	1904.97	1742.86	1590.70	1452.59	1154.47	1154.47	1071.49	971.18	848.23
135.0	2301.16	2106.28	1935.98	1735.84	1591.87	1461.95	1308.62	1192.75	1086.82
180.0	2359.10	2154.86	1972.27	1768.02	1618.79	1485.36	1330.27	1220.25	1089.75
225.0	2170.66	1948.27	1786.75	1634.01	1496.48	1144.17	1144.17	1117.90	990.20
270.0	2312.87	2068.83	1901.45	1694.28	1544.47	1415.72	1266.49	1161.14	1055.22
315.0	1890.92	1734.67	1547.39	1418.06	1160.33	1160.33	1052.76	947.60	851.03
360.0	1820.11	1666.19	1526.91	1164.60	1164.60	1137.27	1029.76	903.35	803.34

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	678.92	588.91	508.91	419.72	353.18	292.96	229.29	186.16	149.99
45.0	832.83	705.84	612.79	532.03	457.12	371.68	309.64	295.60	295.60
90.0	748.97	655.51	571.30	478.30	407.73	342.82	271.95	223.15	173.40
135.0	979.14	852.15	753.24	663.12	577.09	482.28	414.40	334.81	306.13
180.0	985.58	887.26	787.77	668.97	582.36	505.11	435.47	357.63	301.45
225.0	895.75	798.19	680.32	592.95	512.60	426.16	361.73	304.43	253.17
270.0	950.46	852.73	731.59	636.20	553.10	475.26	391.57	330.71	303.21
315.0	730.65	639.48	554.15	477.31	390.17	326.79	270.84	212.79	173.93
360.0	678.92	588.91	508.91	419.72	353.18	292.96	229.29	186.16	149.99

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	121.26	98.79	77.43	65.37	56.59	48.57	44.01	40.32	36.75
45.0	157.43	126.99	102.94	84.21	67.48	58.00	49.28	44.24	40.32
90.0	141.68	116.17	96.21	77.95	67.59	59.87	53.78	48.05	44.36
135.0	306.13	175.45	143.26	116.87	96.74	78.65	67.89	59.99	54.02
180.0	301.45	240.94	161.93	134.08	110.14	88.43	75.96	64.37	57.70
225.0	200.09	165.03	135.89	107.45	90.18	76.78	66.72	57.70	52.44
270.0	303.21	182.12	153.04	123.60	104.29	85.97	74.62	65.19	58.46
315.0	135.95	112.07	93.05	75.14	65.08	57.24	51.50	46.23	42.84
360.0	121.26	98.79	77.43	65.37	56.59	48.57	44.01	40.32	36.75

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	34.47	32.30	30.84	29.73	28.79	27.92	27.27	26.69	26.16
45.0	36.46	34.06	32.01	30.26	28.62	27.62	26.80	25.98	25.40
90.0	41.26	38.16	35.93	34.06	32.13	30.72	29.50	28.21	27.39
135.0	48.46	44.89	41.73	39.03	36.11	34.18	32.13	30.72	29.50
180.0	52.85	48.75	44.71	42.02	39.74	37.57	35.46	33.83	32.48
225.0	48.28	43.89	41.08	38.57	35.87	34.06	32.54	31.02	29.44
270.0	52.03	47.64	43.72	39.97	36.11	33.47	31.13	28.73	27.33
315.0	40.03	37.63	35.58	33.36	31.78	30.14	28.97	27.97	26.80
360.0	34.47	32.30	30.84	29.73	28.79	27.92	27.27	26.69	26.16

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.52	25.22	24.93	24.93	25.22	25.40	25.52	25.75	26.10
45.0	24.93	24.52	24.23	24.29	24.46	25.11	25.52	25.93	26.28
90.0	26.69	25.98	25.63	25.46	25.52	25.93	25.98	26.10	26.28
135.0	28.15	27.21	26.39	25.69	25.05	24.58	24.35	24.17	23.82
180.0	31.31	29.96	29.03	28.03	27.33	26.74	26.10	25.75	25.34
225.0	28.44	27.51	26.80	26.04	25.57	25.11	24.87	24.64	24.29
270.0	26.10	25.16	24.64	24.64	24.23	23.99	24.11	24.35	24.23
315.0	26.04	25.40	24.70	24.23	23.88	23.58	23.29	23.00	22.88
360.0	25.52	25.22	24.93	24.93	25.22	25.40	25.52	25.75	26.10

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	26.28	26.10	26.22	26.28	26.16	26.28	26.22	24.87	22.71
45.0	26.69	26.92	27.04	27.56	27.86	27.97	28.15	27.74	25.93
90.0	26.28	26.04	25.81	25.93	25.87	25.75	25.52	25.22	23.82
135.0	23.58	23.47	23.12	22.65	22.12	21.59	21.07	20.48	20.13
180.0	24.99	24.70	24.29	23.76	22.82	21.71	20.78	19.72	18.67
225.0	23.99	23.47	22.41	21.42	20.48	19.49	18.20	17.50	16.80
270.0	23.76	23.12	22.18	21.19	20.31	19.43	18.20	17.50	16.68
315.0	22.53	21.65	21.01	20.42	19.66	19.25	18.90	18.38	17.21
360.0	26.28	26.10	26.22	26.28	26.16	26.28	26.22	24.87	22.71

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	20.31	18.26	16.50	15.57	14.92	14.40	14.10	13.69	13.34
45.0	23.70	20.78	17.73	16.09	15.16	14.57	14.10	13.81	13.46
90.0	21.48	19.02	17.09	15.63	14.69	14.22	13.81	13.40	13.05
135.0	19.66	18.67	17.32	16.33	15.45	14.75	14.16	13.81	13.52
180.0	18.08	17.44	16.62	16.15	15.63	15.22	14.92	14.63	14.22
225.0	16.09	15.39	14.92	14.46	14.05	13.75	13.34	13.11	12.82
270.0	16.09	15.51	15.16	14.69	14.34	13.99	13.69	13.40	13.05
315.0	16.15	15.51	14.98	14.51	13.99	13.64	13.34	13.05	12.76
360.0	20.31	18.26	16.50	15.57	14.92	14.40	14.10	13.69	13.34

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.05	12.76	12.52	12.23	11.94	11.06	10.83	10.53	10.48
45.0	13.11	12.82	12.52	12.29	12.00	11.59	10.83	10.59	10.42
90.0	12.70	12.52	12.23	11.94	11.59	10.77	10.59	10.36	10.24
135.0	13.11	12.82	12.47	12.17	11.94	11.53	11.00	10.71	10.53
180.0	13.87	13.52	13.23	12.93	12.58	12.11	11.70	11.59	11.41
225.0	12.47	12.23	11.94	11.70	11.41	11.06	10.89	10.65	10.48
270.0	12.76	12.41	12.17	11.82	11.53	11.12	10.89	10.65	10.48
315.0	12.41	12.11	11.88	11.65	11.24	10.77	10.59	10.42	10.24
360.0	13.05	12.76	12.52	12.23	11.94	11.06	10.83	10.53	10.48

Intensity data(cd)

C/γ(°)	90.0
0.0	10.48
45.0	10.36
90.0	10.24
135.0	10.30
180.0	10.89
225.0	10.30
270.0	10.30
315.0	10.30
360.0	10.48