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: 1-1282-L
Luminaire: 92.70.428.00
Report No: 2024619-B005
Ballast type: AC

Test No: 2024719-C005	Voltage(V): 18.030
LampCAT: CREE CXA1512 LES8.9	Current(A): 0.401
Lamp flux(lm): 1079.0	Power (W): 7.230
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 981.14, Efficiency(%): 90.93% , Luminous Efficacy(lm/W): 135.70
Central intensity(cd): 4707.316, Maximum intensity(cd): 4707.316
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=20.0
[C90/270]Total=20.0
Field angle(10%Imax): [C0/180]Total=48.4
[C90/270]Total=48.4
Maximum s/h(1/2): C0_180=0.34 C90_270=0.34
Maximum s/h(1/4): C0_180=0.37 C90_270=0.37
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.93%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.998%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4707.316	0.000	0	0.00%	0.00%
1.0	4670.300	4.487	4.487	0.42%	0.46%
2.0	4577.030	13.273	17.76	1.23%	1.81%
3.0	4425.969	21.532	39.292	2.00%	4.00%
4.0	4212.142	28.915	68.206	2.68%	6.95%
5.0	3961.593	35.163	103.369	3.26%	10.54%
6.0	3657.788	40.042	143.411	3.71%	14.62%
7.0	3351.349	43.506	186.917	4.03%	19.05%
8.0	3004.238	45.486	232.403	4.22%	23.69%
9.0	2693.264	46.175	278.578	4.28%	28.39%
10.0	2366.782	45.792	324.369	4.24%	33.06%
11.0	2060.226	44.235	368.604	4.10%	37.57%
12.0	1795.039	42.144	410.748	3.91%	41.86%
13.0	1578.220	40.032	450.78	3.71%	45.94%
14.0	1397.649	38.091	488.871	3.53%	49.83%
15.0	1240.384	36.216	525.087	3.36%	53.52%
16.0	1069.864	33.852	558.938	3.14%	56.97%
17.0	969.857	31.764	590.702	2.94%	60.21%
18.0	876.762	30.447	621.149	2.82%	63.31%
19.0	794.728	29.081	650.23	2.70%	66.27%
20.0	717.757	27.683	677.912	2.57%	69.09%
21.0	649.439	26.253	704.165	2.43%	71.77%
22.0	588.692	24.881	729.046	2.31%	74.31%
23.0	535.496	23.588	752.634	2.19%	76.71%
24.0	481.216	22.229	774.863	2.06%	78.98%
25.0	431.538	20.754	795.617	1.92%	81.09%
26.0	382.686	19.220	814.837	1.78%	83.05%
27.0	343.161	17.758	832.595	1.65%	84.86%
28.0	294.610	16.147	848.742	1.50%	86.51%
29.0	257.470	14.444	863.186	1.34%	87.98%
30.0	228.121	13.111	876.297	1.22%	89.31%
31.0	193.439	11.731	888.029	1.09%	90.51%
32.0	163.395	10.223	898.251	0.95%	91.55%
33.0	128.625	8.603	906.854	0.80%	92.43%
34.0	107.864	7.157	914.011	0.66%	93.16%
35.0	88.515	6.099	920.11	0.57%	93.78%
36.0	73.936	5.172	925.283	0.48%	94.31%
37.0	59.861	4.364	929.646	0.40%	94.75%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	49.561	3.652	933.299	0.34%	95.12%
39.0	40.739	3.082	936.381	0.29%	95.44%
40.0	33.885	2.603	938.983	0.24%	95.70%
41.0	28.413	2.218	941.202	0.21%	95.93%
42.0	24.206	1.912	943.114	0.18%	96.12%
43.0	21.127	1.679	944.793	0.16%	96.30%
44.0	18.457	1.494	946.287	0.14%	96.45%
45.0	16.459	1.342	947.629	0.12%	96.58%
46.0	14.952	1.228	948.857	0.11%	96.71%
47.0	13.621	1.136	949.994	0.11%	96.83%
48.0	12.685	1.063	951.057	0.10%	96.93%
49.0	11.880	1.009	952.066	0.09%	97.04%
50.0	11.185	0.962	953.027	0.09%	97.14%
51.0	10.636	0.923	953.951	0.09%	97.23%
52.0	10.219	0.895	954.846	0.08%	97.32%
53.0	9.854	0.873	955.719	0.08%	97.41%
54.0	9.525	0.854	956.573	0.08%	97.50%
55.0	9.283	0.840	957.412	0.08%	97.58%
56.0	9.064	0.829	958.241	0.08%	97.67%
57.0	8.895	0.821	959.063	0.08%	97.75%
58.0	8.720	0.815	959.877	0.08%	97.83%
59.0	8.581	0.809	960.686	0.07%	97.92%
60.0	8.464	0.805	961.491	0.07%	98.00%
61.0	8.369	0.803	962.295	0.07%	98.08%
62.0	8.244	0.801	963.095	0.07%	98.16%
63.0	8.142	0.797	963.892	0.07%	98.24%
64.0	7.981	0.791	964.683	0.07%	98.32%
65.0	7.849	0.783	965.467	0.07%	98.40%
66.0	7.659	0.774	966.24	0.07%	98.48%
67.0	7.506	0.763	967.003	0.07%	98.56%
68.0	7.418	0.756	967.759	0.07%	98.64%
69.0	7.403	0.756	968.515	0.07%	98.71%
70.0	7.323	0.756	969.271	0.07%	98.79%
71.0	7.249	0.753	970.024	0.07%	98.87%
72.0	6.993	0.741	970.765	0.07%	98.94%
73.0	6.723	0.717	971.482	0.07%	99.02%
74.0	6.364	0.688	972.17	0.06%	99.09%
75.0	6.138	0.661	972.831	0.06%	99.15%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.918	0.640	973.471	0.06%	99.22%
77.0	5.713	0.620	974.091	0.06%	99.28%
78.0	5.611	0.606	974.697	0.06%	99.34%
79.0	5.486	0.596	975.293	0.06%	99.40%
80.0	5.391	0.586	975.88	0.05%	99.46%
81.0	5.311	0.579	976.459	0.05%	99.52%
82.0	5.209	0.570	977.029	0.05%	99.58%
83.0	5.113	0.561	977.59	0.05%	99.64%
84.0	5.048	0.554	978.144	0.05%	99.69%
85.0	4.872	0.541	978.685	0.05%	99.75%
86.0	4.616	0.519	979.204	0.05%	99.80%
87.0	4.470	0.497	979.701	0.05%	99.85%
88.0	4.382	0.485	980.186	0.04%	99.90%
89.0	4.338	0.478	980.664	0.04%	99.95%
90.0	4.279	0.472	981.136	0.04%	100.00%

Zonal flux distribution table

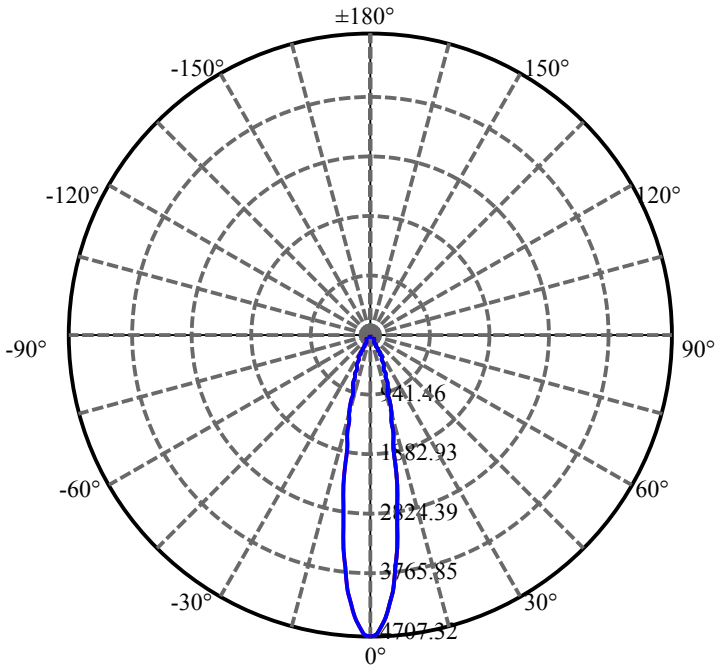
ZONAL LUMEN SUMMARY

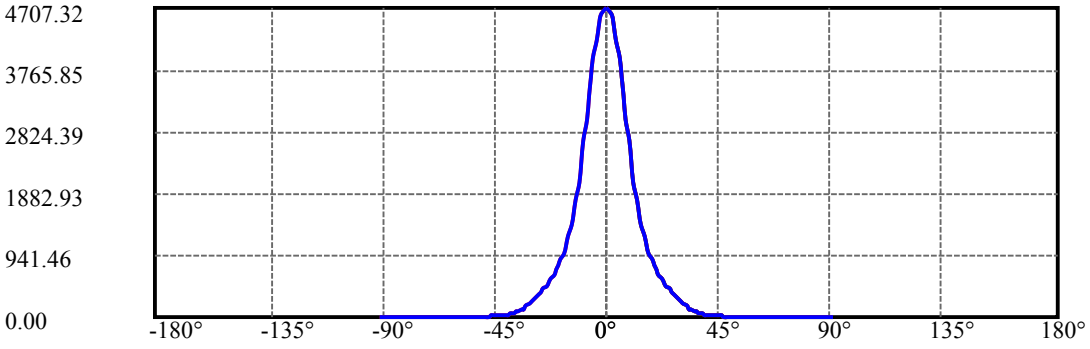
Zone	Lumens	%Lamp	%Fixt
0-30	876.30	81.21%	89.31%
0-40	938.98	87.02%	95.70%
0-60	961.49	89.11%	98.00%
0-90	980.66	90.89%	99.95%
0-120	980.66	90.89%	99.95%
0-180	981.14	90.93%	100.00%
60-90	19.17	1.78%	1.95%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.48	784.91	72.74%	80.00%

ZONAL LUMEN SUMMARY

0-10	324.37
10-20	353.54
20-30	198.38
30-40	62.69
40-50	14.04
50-60	8.46
60-70	7.78
70-80	6.61
80-90	4.78
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):

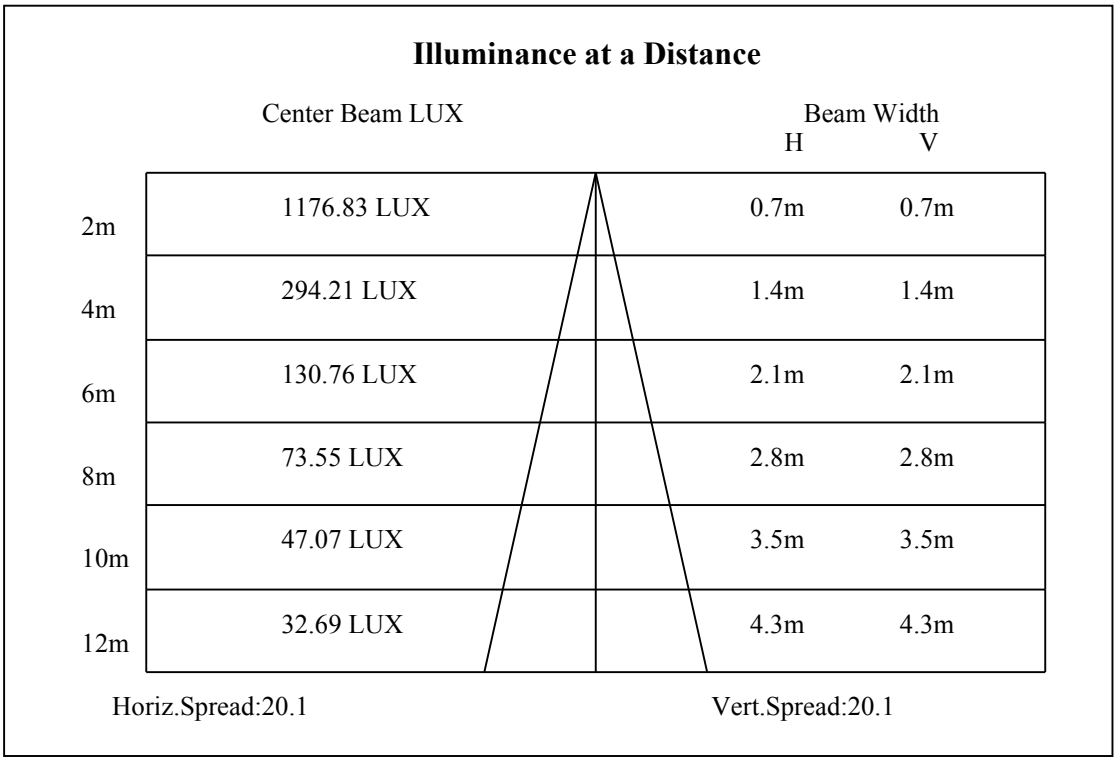
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:24.2 Right:24.2
:C90/270Left:24.2 Right:24.2

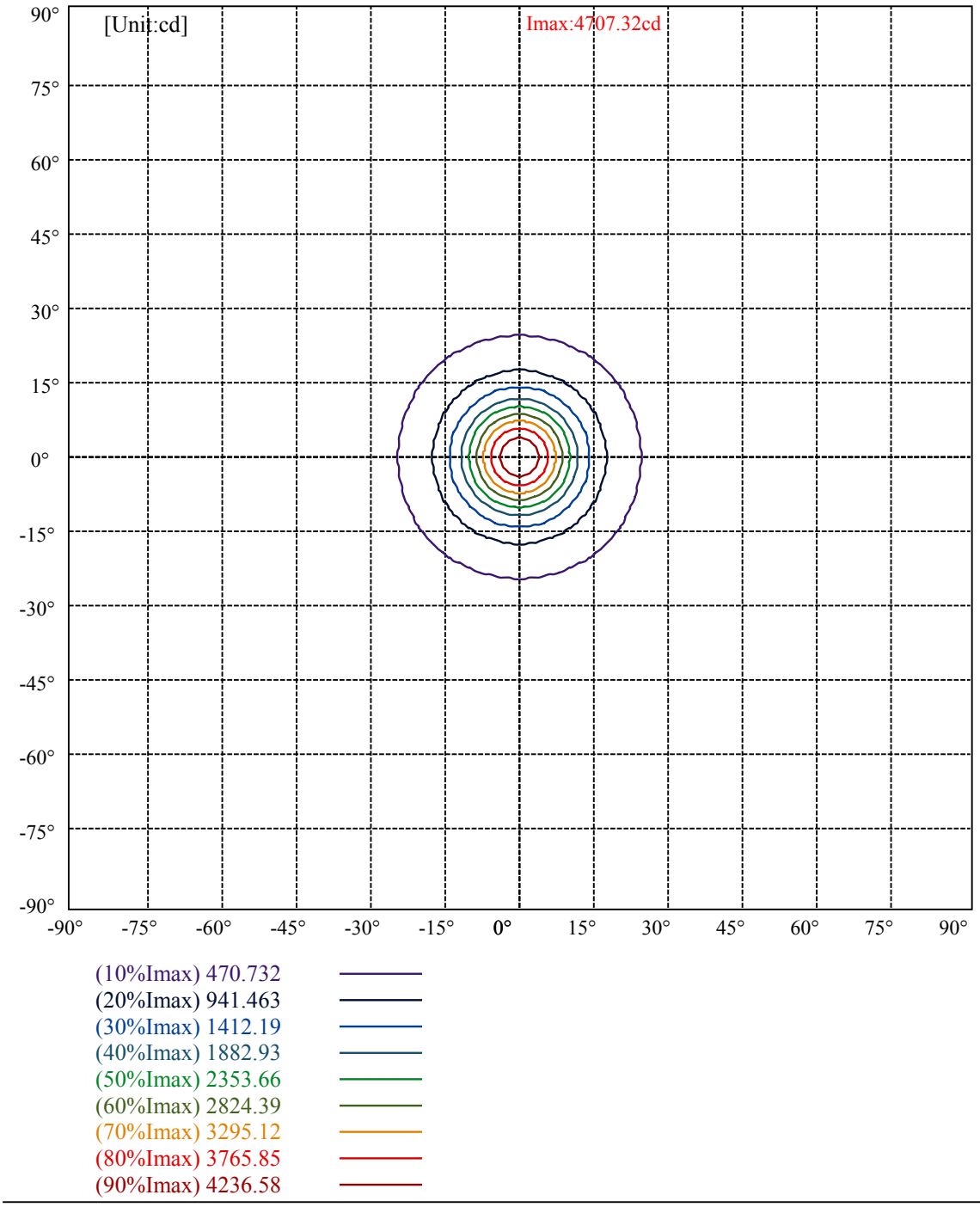
Beam Angle(50%Imax):C0/180Left:10.0 Right:10.0
:C90/270Left:10.0 Right:10.0

Lux distance Curve



Equipment: GMS1980 Date: 2024/7/19 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

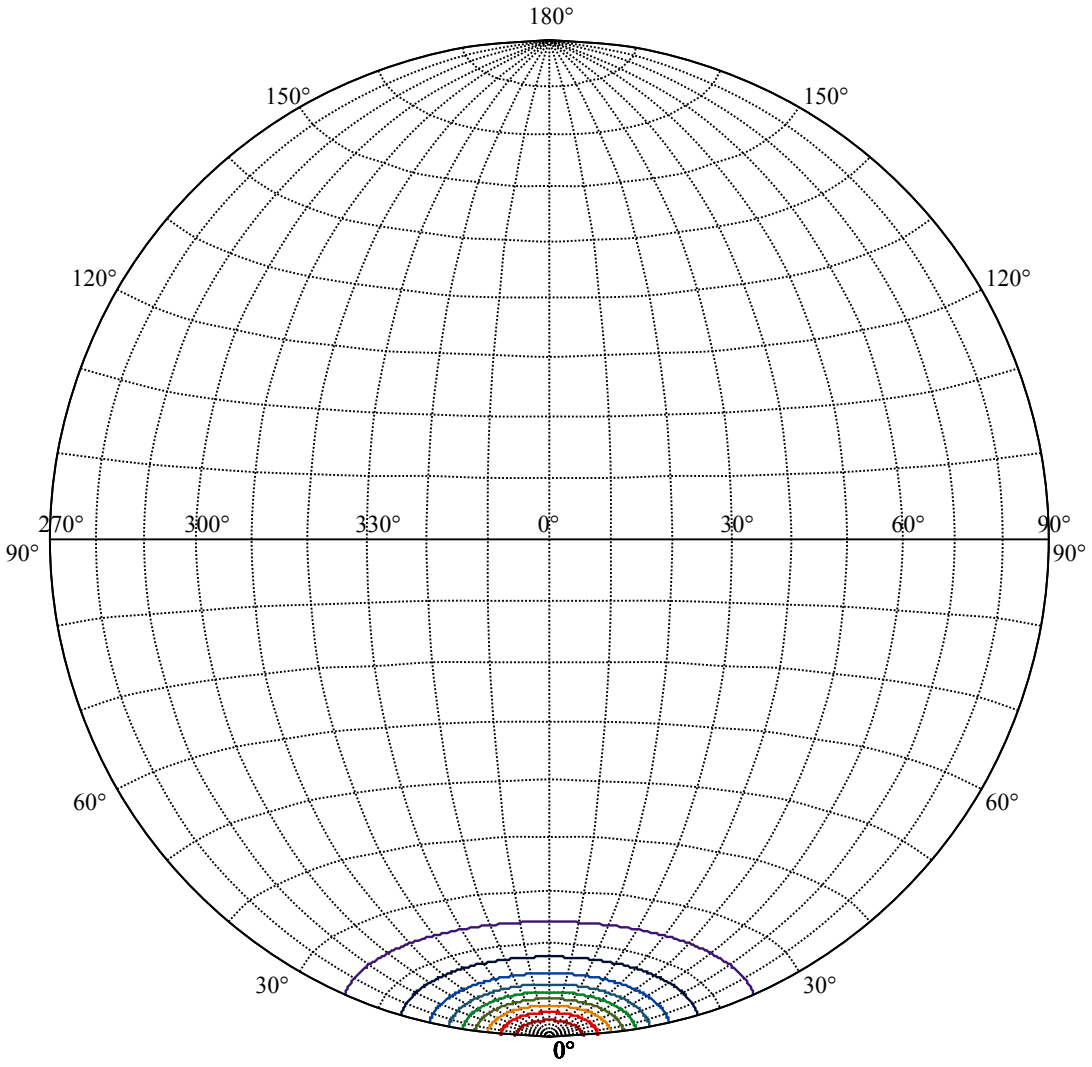


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/7/19
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web

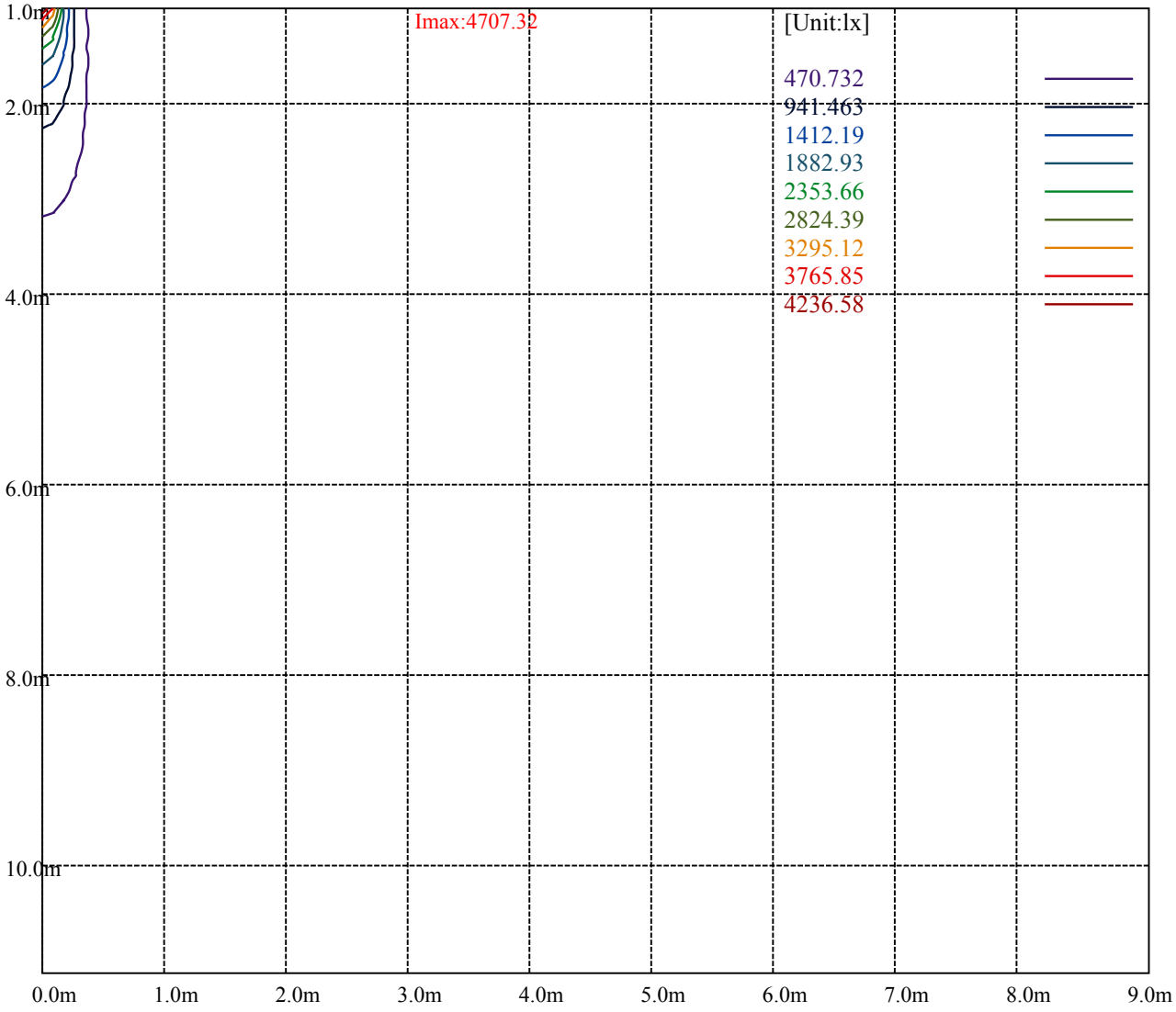


House [Unit:cd] Road

Imax:4707.32

(10%Imax) 470.732
(20%Imax) 941.463
(30%Imax) 1412.19
(40%Imax) 1882.93
(50%Imax) 2353.66
(60%Imax) 2824.39
(70%Imax) 3295.12
(80%Imax) 3765.85
(90%Imax) 4236.58

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/7/19
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 1-1282-L

Luminance Limitting Curve(no luminous side)

Luminance Table

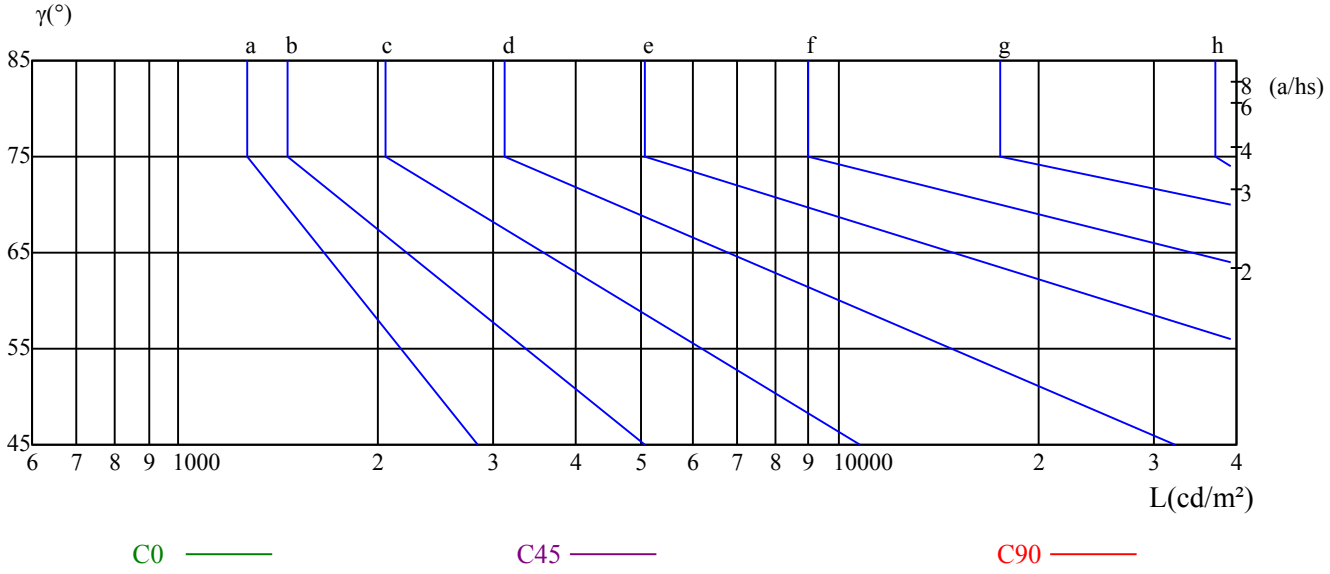
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

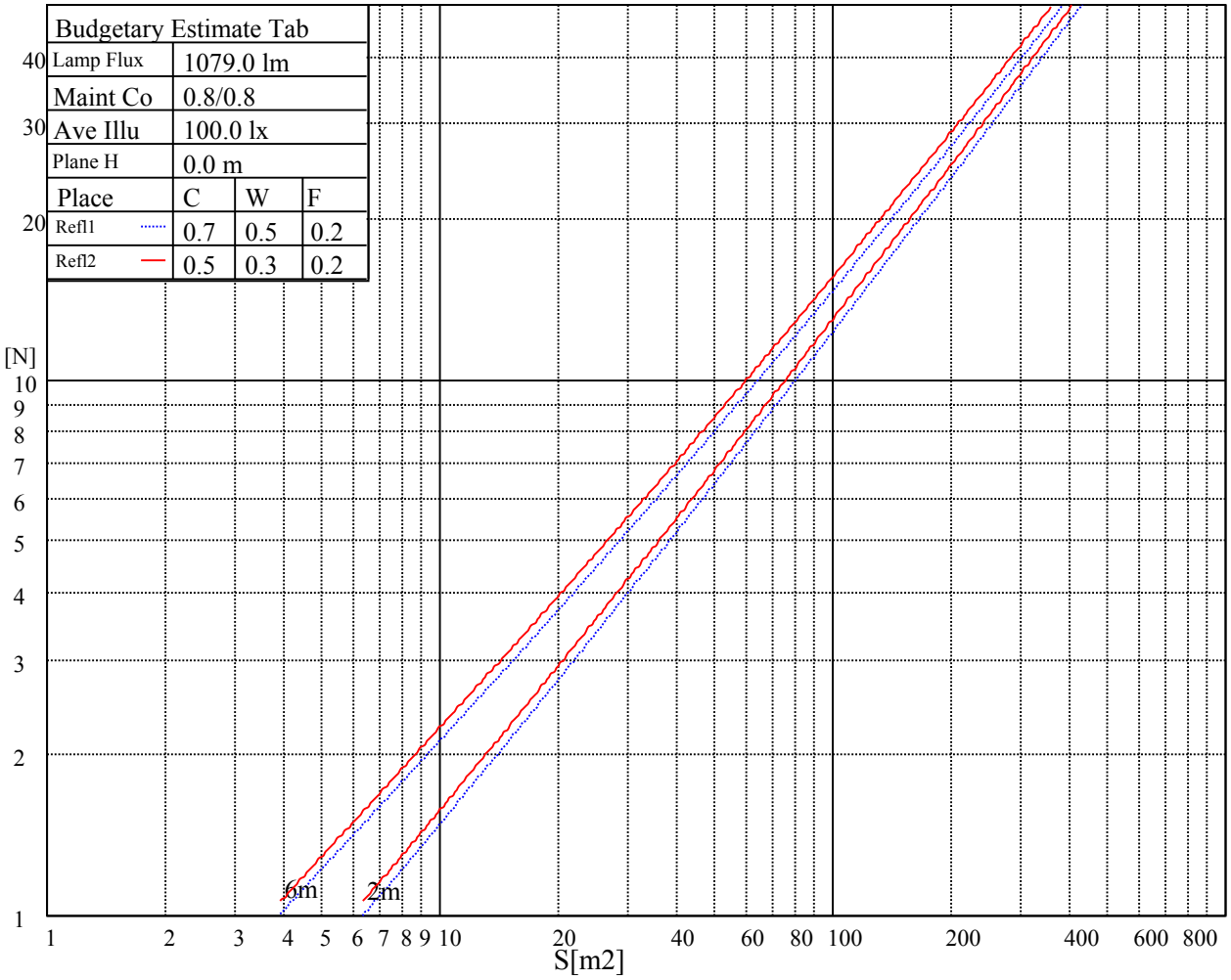
Date: 2024/7/19
Humidity(%): 60.0%

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

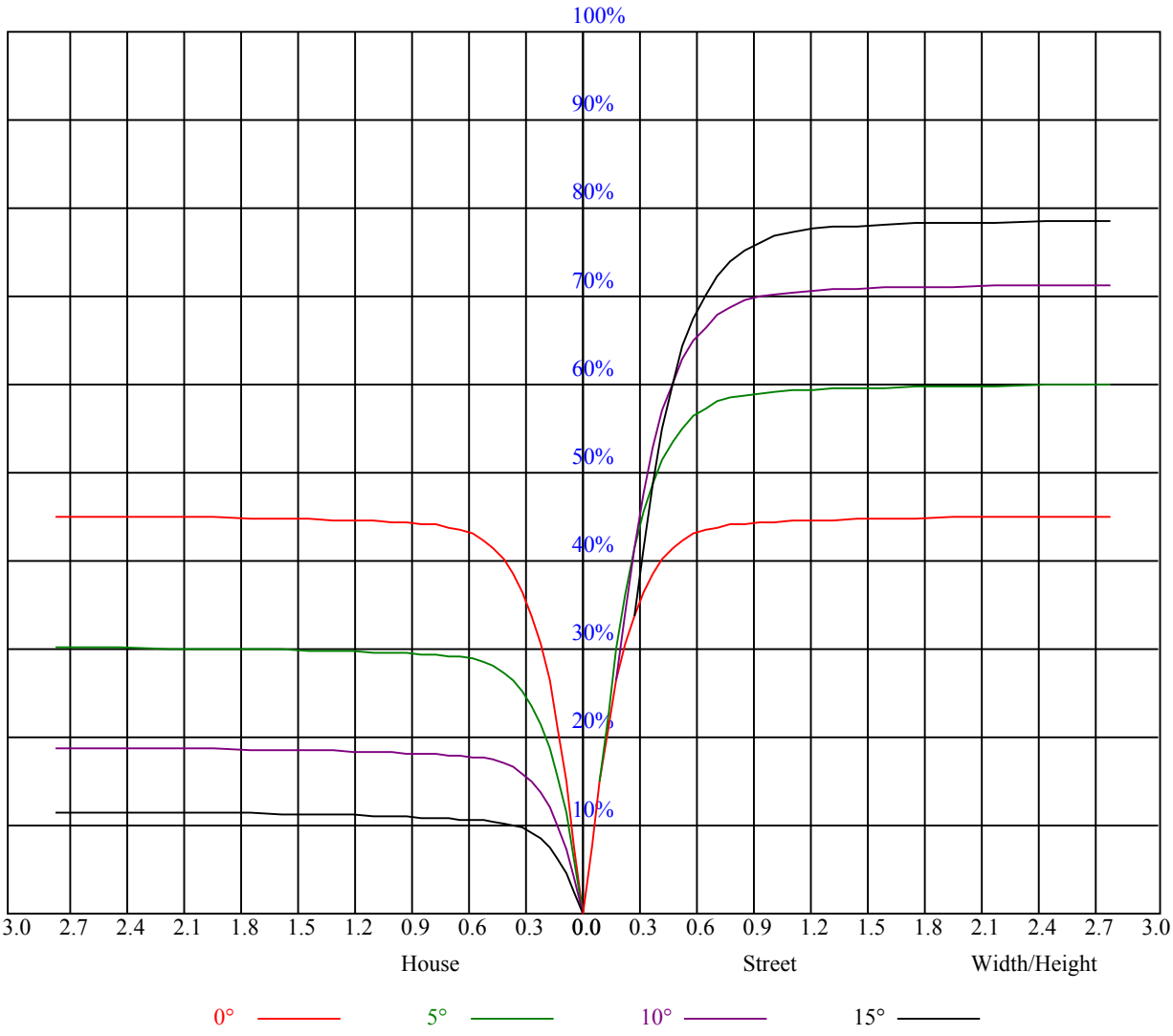


Equipment: GMS1980	Date: 2024/7/19	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Utilization factor table for indoor luminaire

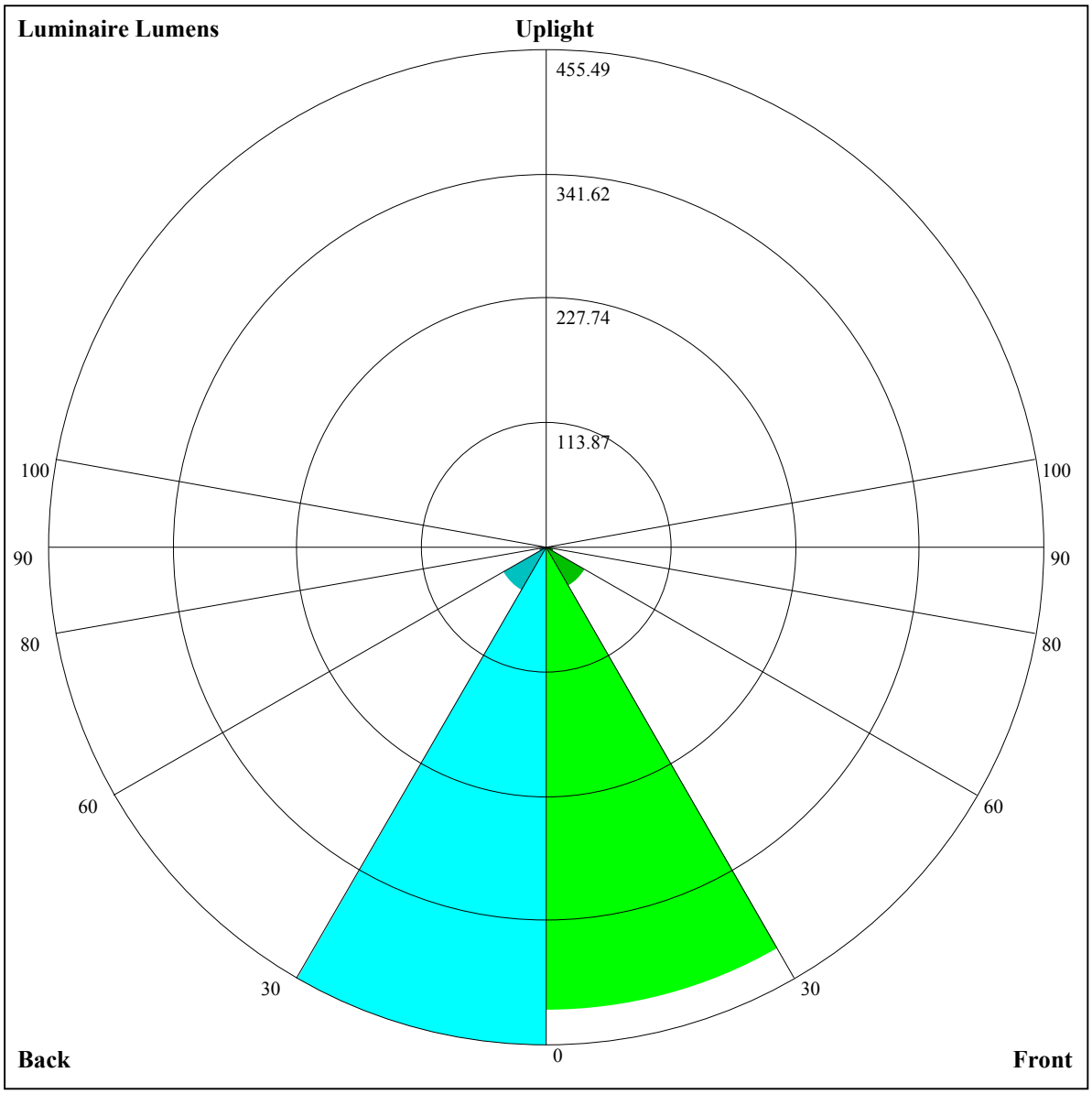
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.08	1.08	1.08	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.02	1.00	0.98	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.93	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.86	0.87	0.85	0.84	0.83
3	0.92	0.88	0.85	0.91	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.84	0.82	0.81	0.79
4	0.88	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.82	0.79	0.77	0.76
5	0.84	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.80	0.77	0.75	0.79	0.77	0.75	0.73
6	0.81	0.77	0.74	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
7	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.72	0.70	0.69
8	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66
9	0.73	0.69	0.66	0.72	0.68	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.64
10	0.70	0.66	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/7/19	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

LCS Graph



Luminaire Lumens:
FL=423.91,FM=40.64,FH=7.17,FVH=2.6
BL=455.49,BM=45.36,BH=7.45,BVH=2.66
UL=0,UH=0

BUG Rating:B1-U0-G0

Equipment: GMS1980	Date: 2024/7/19	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

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	4702.93	4584.71	4429.63	4211.92	3881.27	3583.39	3261.52	2946.08	2550.47
45.0	4671.32	4760.28	4787.78	4760.28	4636.80	4473.52	4242.35	3986.61	3614.99
90.0	4804.76	4905.41	4941.70	4917.70	4813.53	4653.18	4441.92	4104.24	3795.83
135.0	4650.26	4795.98	4879.08	4917.12	4887.27	4801.83	4594.07	4365.25	4011.19
180.0	4702.93	4755.01	4740.97	4660.79	4495.17	4289.76	3964.37	3658.30	3322.97
225.0	4671.32	4519.75	4264.01	4004.17	3696.34	3370.37	2936.72	2599.63	2288.87
270.0	4804.76	4653.18	4448.94	4110.09	3792.32	3453.47	3095.31	2748.86	2344.47
315.0	4650.26	4388.08	4124.14	3825.67	3494.44	3067.22	2726.04	2401.82	2105.11
360.0	4702.93	4584.71	4429.63	4211.92	3881.27	3583.39	3261.52	2946.08	2550.47

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2265.46	2005.04	1721.21	1524.57	1152.95	1152.95	1064.17	959.13	850.98
45.0	3279.66	2958.37	2649.96	2273.66	2001.53	1765.68	1514.04	1344.32	1196.26
90.0	3454.64	3012.21	2666.34	2349.15	2063.56	1755.15	1545.64	1143.53	1143.53
135.0	3693.41	3355.15	2993.48	2575.63	2266.63	1989.24	1742.86	1487.70	1309.21
180.0	2988.22	2575.63	2267.81	1989.24	1739.35	1483.60	1314.47	1174.61	1025.37
225.0	2013.82	1707.16	1502.92	1145.87	1145.87	1030.76	923.66	816.45	742.47
270.0	2059.47	1745.78	1529.84	1351.93	1166.41	1039.42	941.10	830.49	757.92
315.0	1791.43	1574.90	1150.26	1150.26	1089.45	964.39	877.14	802.69	733.11
360.0	2265.46	2005.04	1721.21	1524.57	1152.95	1152.95	1064.17	959.13	850.98

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	781.74	719.71	661.54	596.87	546.89	499.08	451.68	395.67	351.54
45.0	1051.12	950.46	844.54	767.87	705.25	649.07	583.53	533.20	482.87
90.0	1054.40	949.88	858.41	758.92	691.50	630.17	559.88	508.56	449.51
135.0	1168.75	1052.88	924.71	836.35	745.05	683.02	624.49	559.53	506.86
180.0	925.30	835.76	747.39	685.36	624.49	563.63	513.89	464.14	410.89
225.0	683.13	614.14	565.15	517.28	471.63	418.61	376.01	333.75	293.55
270.0	693.55	632.10	585.87	527.35	478.19	436.64	379.28	337.73	297.35
315.0	656.10	602.90	554.44	505.52	446.53	403.75	360.97	319.71	268.91
360.0	781.74	719.71	661.54	596.87	546.89	499.08	451.68	395.67	351.54

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	307.89	257.91	222.85	191.60	156.78	132.32	106.04	88.31	73.15
45.0	434.30	378.11	333.05	301.45	301.45	206.99	177.67	150.93	121.26
90.0	404.39	359.50	317.66	277.40	231.98	198.74	169.66	143.32	116.17
135.0	457.70	410.89	354.70	311.98	301.45	301.45	192.42	164.21	138.41
180.0	364.07	323.10	303.79	303.79	199.21	169.48	143.38	116.58	98.08
225.0	247.20	214.13	183.35	155.55	124.71	104.81	83.28	69.12	54.84
270.0	297.35	214.72	182.77	147.42	123.13	102.94	81.87	68.41	57.12
315.0	232.39	198.51	161.58	135.77	108.79	90.42	74.67	62.03	49.10
360.0	307.89	257.91	222.85	191.60	156.78	132.32	106.04	88.31	73.15

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	60.57	48.22	40.03	33.42	28.15	23.17	20.31	18.02	16.15
45.0	101.48	80.18	66.01	54.31	44.83	35.64	29.73	25.22	21.54
90.0	97.21	81.58	65.43	54.60	44.30	37.51	31.84	27.56	23.23
135.0	115.99	92.64	76.84	60.40	50.10	41.73	33.53	28.50	24.46
180.0	82.05	65.90	55.13	46.29	37.16	31.37	26.92	23.58	20.13
225.0	45.76	38.10	32.01	25.93	22.36	19.66	17.50	15.33	13.99
270.0	47.64	38.33	32.36	27.62	23.94	20.42	18.32	16.80	15.27
315.0	40.79	33.94	28.68	23.35	20.25	17.79	15.51	13.99	12.87
360.0	60.57	48.22	40.03	33.42	28.15	23.17	20.31	18.02	16.15

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	14.40	13.28	12.23	11.59	11.06	10.59	10.30	10.07	9.83
45.0	18.20	16.15	14.46	13.05	11.65	10.77	9.89	9.42	9.01
90.0	20.66	18.67	16.68	15.33	14.28	13.28	12.47	11.70	11.24
135.0	21.36	18.38	16.44	14.86	13.58	12.23	11.35	10.71	10.07
180.0	18.02	16.33	14.63	13.52	12.58	11.82	11.18	10.71	10.24
225.0	12.87	12.06	11.24	10.71	10.30	9.83	9.54	9.25	9.01
270.0	14.40	13.69	12.99	12.52	12.11	11.76	11.47	11.18	10.89
315.0	11.76	11.06	10.30	9.89	9.48	9.19	8.90	8.72	8.54
360.0	14.40	13.28	12.23	11.59	11.06	10.59	10.30	10.07	9.83

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	9.60	9.42	9.31	9.25	9.19	9.07	9.01	8.84	8.78
45.0	8.54	8.31	8.08	7.90	7.72	7.55	7.43	7.37	7.26
90.0	10.71	10.36	10.07	9.71	9.42	9.25	8.95	8.84	8.60
135.0	9.60	9.13	8.78	8.54	8.19	8.02	7.90	7.78	7.67
180.0	9.89	9.60	9.31	9.13	8.95	8.84	8.72	8.54	8.49
225.0	8.84	8.72	8.54	8.43	8.43	8.31	8.25	8.25	8.13
270.0	10.59	10.42	10.24	10.07	9.77	9.60	9.48	9.36	9.25
315.0	8.43	8.31	8.19	8.13	8.08	8.02	7.96	7.96	7.78
360.0	9.60	9.42	9.31	9.25	9.19	9.07	9.01	8.84	8.78

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	8.60	8.37	8.25	7.90	7.61	7.37	7.08	6.79	6.55
45.0	7.26	7.20	7.14	7.08	6.96	6.85	6.73	6.50	6.26
90.0	8.43	8.25	8.19	8.02	7.84	7.61	7.43	7.20	6.85
135.0	7.55	7.49	7.49	7.43	7.32	7.20	7.08	6.85	6.73
180.0	8.43	8.31	8.19	8.08	7.90	7.67	7.37	7.14	6.91
225.0	8.02	7.84	7.67	7.43	7.26	7.43	7.90	8.31	8.60
270.0	9.13	8.90	8.60	8.31	8.31	8.60	9.13	9.36	9.77
315.0	7.72	7.49	7.26	7.02	6.85	6.61	6.50	6.44	6.32
360.0	8.60	8.37	8.25	7.90	7.61	7.37	7.08	6.79	6.55

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.38	6.20	6.03	5.91	5.79	5.68	5.56	5.44	5.33
45.0	6.09	5.91	5.74	5.62	5.50	5.38	5.33	5.21	5.15
90.0	6.61	6.38	6.14	6.03	5.85	5.74	5.62	5.50	5.38
135.0	6.50	6.32	6.14	6.03	5.91	5.79	5.74	5.62	5.50
180.0	6.73	6.55	6.38	6.26	6.09	5.97	5.91	5.79	5.68
225.0	8.19	7.61	6.91	6.44	6.09	5.74	5.62	5.44	5.38
270.0	9.31	8.78	7.72	7.08	6.44	5.85	5.68	5.50	5.44
315.0	6.14	6.03	5.85	5.74	5.68	5.56	5.44	5.38	5.27
360.0	6.38	6.20	6.03	5.91	5.79	5.68	5.56	5.44	5.33

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.27	5.15	5.03	4.97	4.92	4.62	4.51	4.33	4.21
45.0	5.09	4.97	4.86	4.80	4.68	4.62	4.51	4.39	4.33
90.0	5.27	5.15	4.97	4.92	4.80	4.62	4.56	4.45	4.39
135.0	5.44	5.33	5.21	5.15	5.03	4.97	4.74	4.62	4.56
180.0	5.56	5.44	5.38	5.33	5.15	4.86	4.62	4.56	4.51
225.0	5.33	5.21	5.15	5.09	4.62	4.33	4.21	4.16	4.16
270.0	5.33	5.27	5.21	5.09	5.03	4.45	4.27	4.21	4.27
315.0	5.21	5.15	5.09	5.03	4.74	4.45	4.33	4.33	4.27
360.0	5.27	5.15	5.03	4.97	4.92	4.62	4.51	4.33	4.21

Intensity data(cd)

C/γ(°)	90.0
0.0	4.21
45.0	4.27
90.0	4.33
135.0	4.45
180.0	4.33
225.0	4.16
270.0	4.21
315.0	4.27
360.0	4.21