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: 2-2682-L
Luminaire: 92.70.412.00
Report No: 2024326-B013
Ballast type: AC

Test No: 2024326-C013	Voltage(V): 34.430
LampCAT: Fortimo_SLM_C_1210	Current(A): 0.720
Lamp flux(lm): 4230.0	Power (W): 24.789
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3644.30, Efficiency(%): 86.15% , Luminous Efficacy(lm/W): 147.01
Central intensity(cd): 15225.210, Maximum intensity(cd): 15225.210
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=19.6
[C90/270]Total=19.6
Field angle(10%Imax): [C0/180]Total=54.0
[C90/270]Total=54.0
Maximum s/h(1/2): C0_180=0.33 C90_270=0.33
Maximum s/h(1/4): C0_180=0.39 C90_270=0.39
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 86.15%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.046%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	15225.214	0.000	0	0.00%	0.00%
1.0	15082.565	14.502	14.502	0.34%	0.40%
2.0	14756.302	42.828	57.329	1.01%	1.57%
3.0	14214.969	69.290	126.619	1.64%	3.47%
4.0	12857.269	90.619	217.238	2.14%	5.96%
5.0	12274.465	108.115	325.354	2.56%	8.93%
6.0	11489.459	124.886	450.24	2.95%	12.35%
7.0	10412.426	135.945	586.184	3.21%	16.08%
8.0	9336.343	141.338	727.522	3.34%	19.96%
9.0	8349.142	143.331	870.854	3.39%	23.90%
10.0	7464.208	143.105	1013.959	3.38%	27.82%
11.0	6718.046	141.710	1155.669	3.35%	31.71%
12.0	6044.087	139.508	1295.177	3.30%	35.54%
13.0	5412.044	135.955	1431.132	3.21%	39.27%
14.0	4861.128	131.496	1562.628	3.11%	42.88%
15.0	4413.869	127.331	1689.959	3.01%	46.37%
16.0	3991.849	123.167	1813.127	2.91%	49.75%
17.0	3588.848	118.052	1931.179	2.79%	52.99%
18.0	3272.607	113.131	2044.309	2.67%	56.10%
19.0	3004.501	109.209	2153.518	2.58%	59.09%
20.0	2837.346	106.922	2260.44	2.53%	62.03%
21.0	2626.607	104.919	2365.359	2.48%	64.91%
22.0	2397.425	100.960	2466.319	2.39%	67.68%
23.0	2182.436	96.098	2562.417	2.27%	70.31%
24.0	2018.792	91.854	2654.271	2.17%	72.83%
25.0	1866.926	88.353	2742.624	2.09%	75.26%
26.0	1707.672	84.379	2827.002	1.99%	77.57%
27.0	1530.027	79.211	2906.213	1.87%	79.75%
28.0	1317.305	72.088	2978.302	1.70%	81.72%
29.0	1233.025	66.724	3045.026	1.58%	83.56%
30.0	1086.602	62.629	3107.655	1.48%	85.27%
31.0	940.091	56.400	3164.055	1.33%	86.82%
32.0	800.003	49.852	3213.907	1.18%	88.19%
33.0	666.952	43.217	3257.124	1.02%	89.38%
34.0	548.970	36.797	3293.921	0.87%	90.39%
35.0	466.797	31.546	3325.467	0.75%	91.25%
36.0	399.965	27.598	3353.065	0.65%	92.01%
37.0	340.221	24.141	3377.206	0.57%	92.67%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	291.486	21.086	3398.291	0.50%	93.25%
39.0	264.792	18.987	3417.278	0.45%	93.77%
40.0	225.004	17.082	3434.361	0.40%	94.24%
41.0	180.205	14.429	3448.79	0.34%	94.64%
42.0	155.436	12.194	3460.985	0.29%	94.97%
43.0	133.826	10.715	3471.7	0.25%	95.26%
44.0	115.750	9.420	3481.119	0.22%	95.52%
45.0	100.395	8.307	3489.426	0.20%	95.75%
46.0	88.113	7.372	3496.798	0.17%	95.95%
47.0	79.649	6.672	3503.471	0.16%	96.14%
48.0	73.131	6.176	3509.647	0.15%	96.31%
49.0	68.479	5.815	3515.462	0.14%	96.46%
50.0	64.580	5.548	3521.01	0.13%	96.62%
51.0	62.487	5.376	3526.386	0.13%	96.76%
52.0	61.412	5.317	3531.702	0.13%	96.91%
53.0	60.461	5.301	3537.004	0.13%	97.06%
54.0	59.444	5.285	3542.289	0.12%	97.20%
55.0	59.115	5.292	3547.581	0.13%	97.35%
56.0	58.435	5.312	3552.893	0.13%	97.49%
57.0	57.030	5.279	3558.172	0.12%	97.64%
58.0	55.040	5.183	3563.355	0.12%	97.78%
59.0	52.019	5.005	3568.36	0.12%	97.92%
60.0	48.076	4.729	3573.089	0.11%	98.05%
61.0	44.280	4.407	3577.496	0.10%	98.17%
62.0	40.549	4.088	3581.584	0.10%	98.28%
63.0	36.145	3.730	3585.314	0.09%	98.38%
64.0	32.429	3.365	3588.678	0.08%	98.47%
65.0	29.825	3.081	3591.759	0.07%	98.56%
66.0	27.754	2.873	3594.632	0.07%	98.64%
67.0	26.145	2.710	3597.342	0.06%	98.71%
68.0	24.982	2.590	3599.932	0.06%	98.78%
69.0	24.045	2.501	3602.433	0.06%	98.85%
70.0	23.211	2.427	3604.86	0.06%	98.92%
71.0	22.495	2.362	3607.223	0.06%	98.98%
72.0	21.822	2.304	3609.527	0.05%	99.05%
73.0	21.273	2.254	3611.781	0.05%	99.11%
74.0	20.797	2.212	3613.992	0.05%	99.17%
75.0	20.344	2.174	3616.166	0.05%	99.23%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	19.963	2.140	3618.306	0.05%	99.29%
77.0	19.561	2.107	3620.413	0.05%	99.34%
78.0	19.137	2.072	3622.485	0.05%	99.40%
79.0	18.669	2.031	3624.516	0.05%	99.46%
80.0	18.208	1.988	3626.504	0.05%	99.51%
81.0	17.784	1.946	3628.45	0.05%	99.57%
82.0	17.337	1.905	3630.355	0.05%	99.62%
83.0	16.906	1.861	3632.216	0.04%	99.67%
84.0	16.496	1.820	3634.036	0.04%	99.72%
85.0	16.167	1.783	3635.819	0.04%	99.77%
86.0	15.845	1.750	3637.568	0.04%	99.82%
87.0	15.560	1.719	3639.287	0.04%	99.86%
88.0	15.318	1.691	3640.979	0.04%	99.91%
89.0	15.099	1.667	3642.646	0.04%	99.95%
90.0	15.033	1.652	3644.298	0.04%	100.00%

Zonal flux distribution table

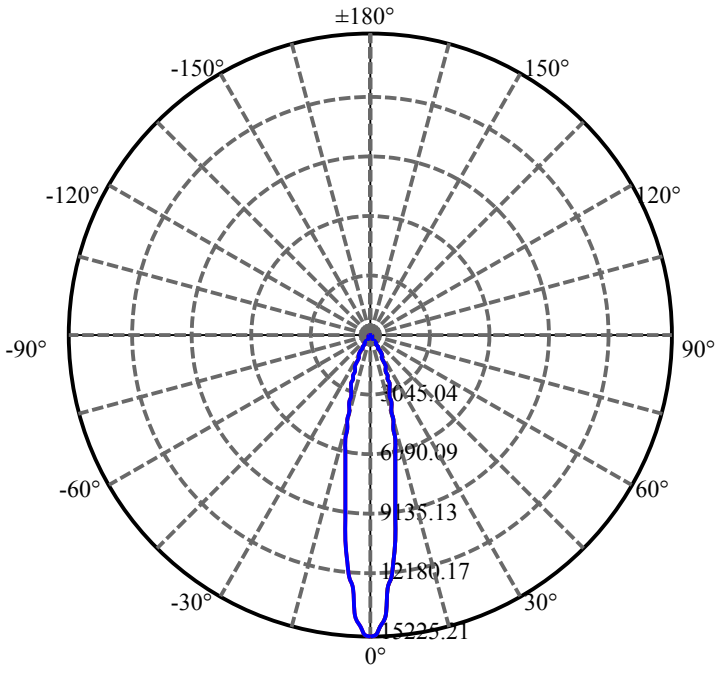
ZONAL LUMEN SUMMARY

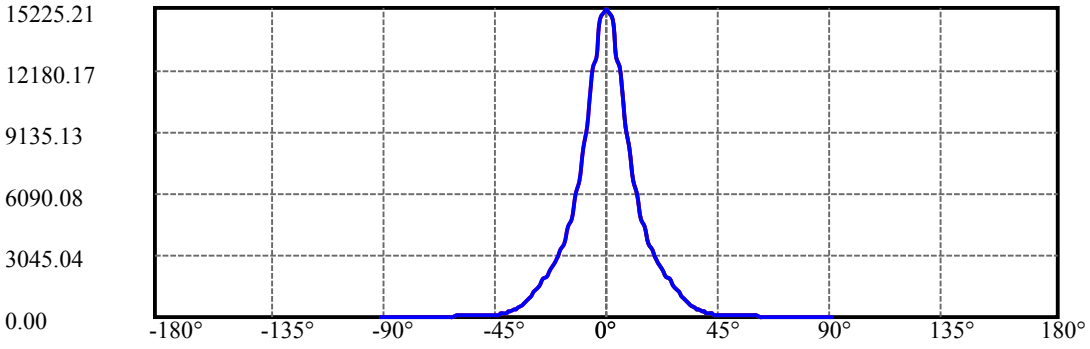
Zone	Lumens	%Lamp	%Fixt
0-30	3107.66	73.47%	85.27%
0-40	3434.36	81.19%	94.24%
0-60	3573.09	84.47%	98.05%
0-90	3642.65	86.11%	99.95%
0-120	3642.65	86.11%	99.95%
0-180	3644.30	86.15%	100.00%
60-90	69.56	1.64%	1.91%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.13	2915.44	68.92%	80.00%

ZONAL LUMEN SUMMARY

0-10	1013.96
10-20	1246.48
20-30	847.22
30-40	326.71
40-50	86.65
50-60	52.08
60-70	31.77
70-80	21.64
80-90	16.14
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):

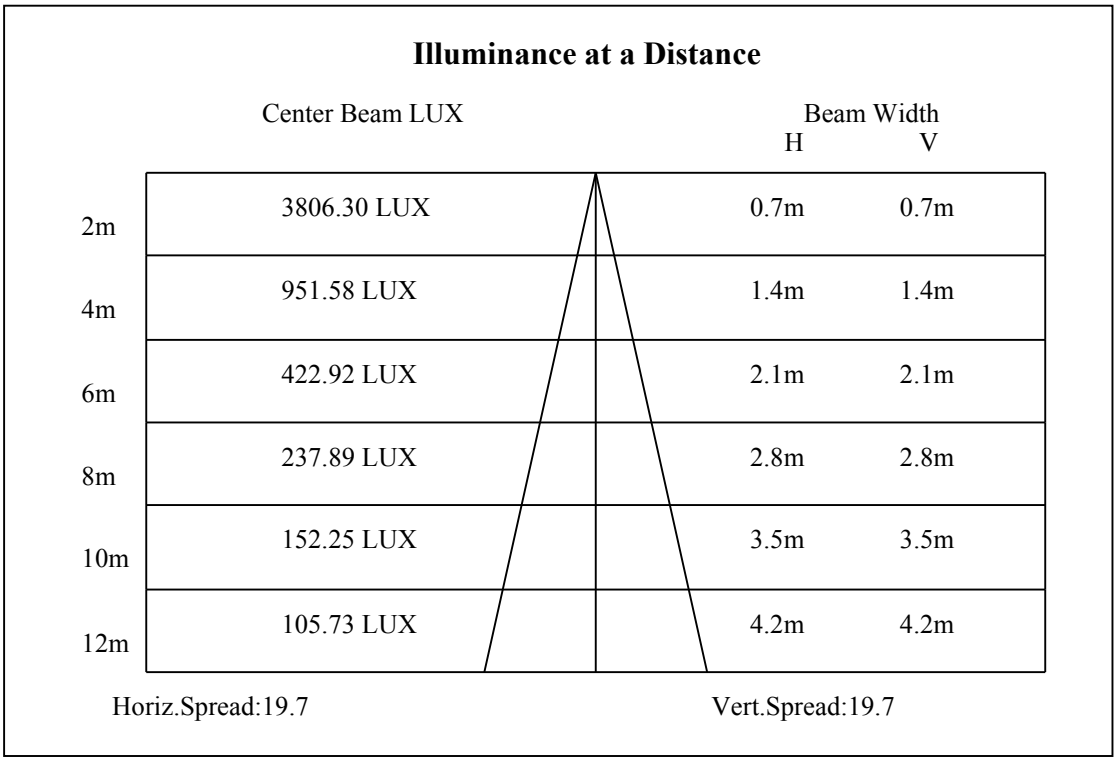
C0/C180:

C90/C270:

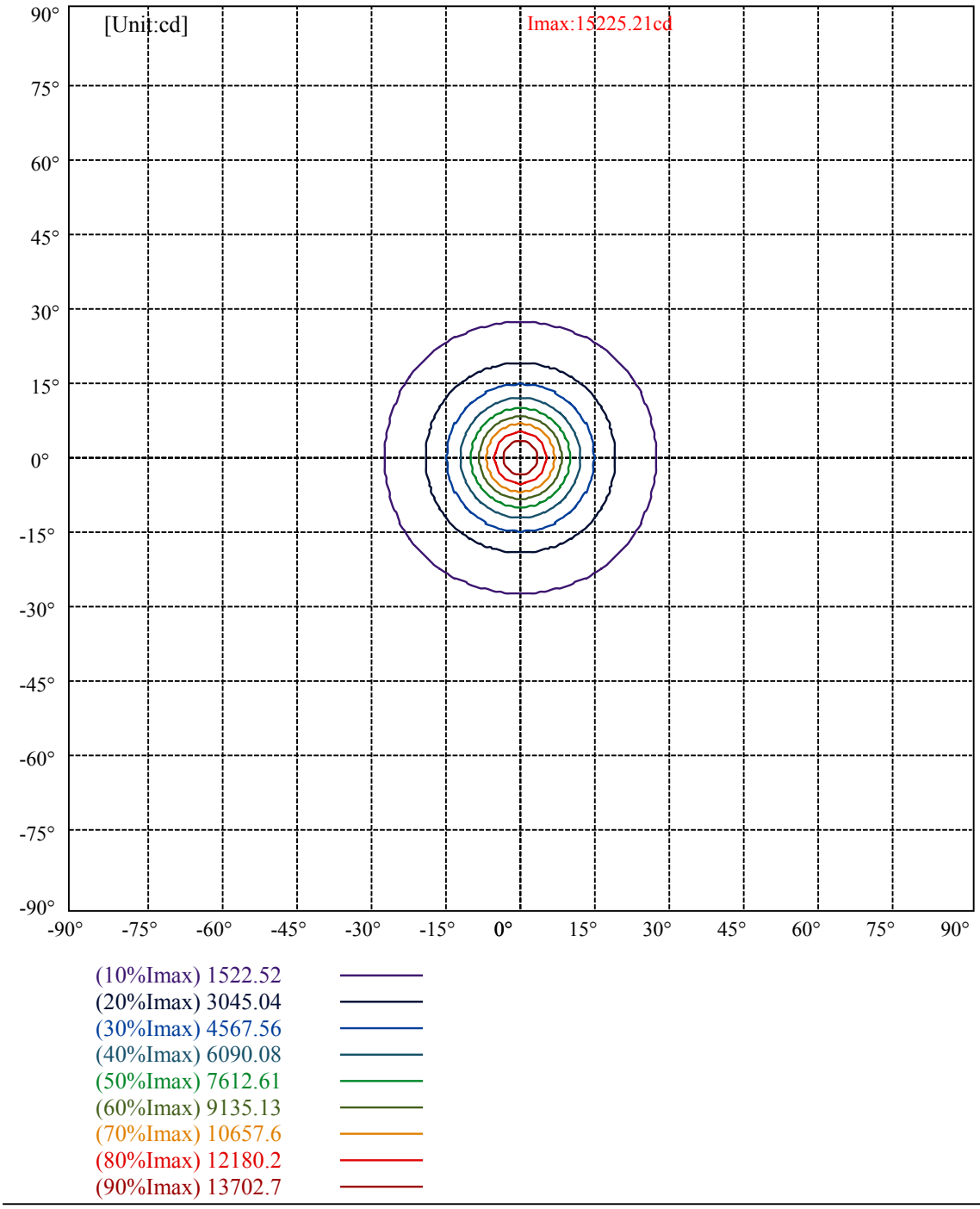
Field angle(10%Imax):C0/180Left:27.0 Right:27.0
:C90/270Left:27.0 Right:27.0

Beam Angle(50%Imax):C0/180Left:9.8 Right:9.8
:C90/270Left:9.8 Right:9.8

Lux distance Curve

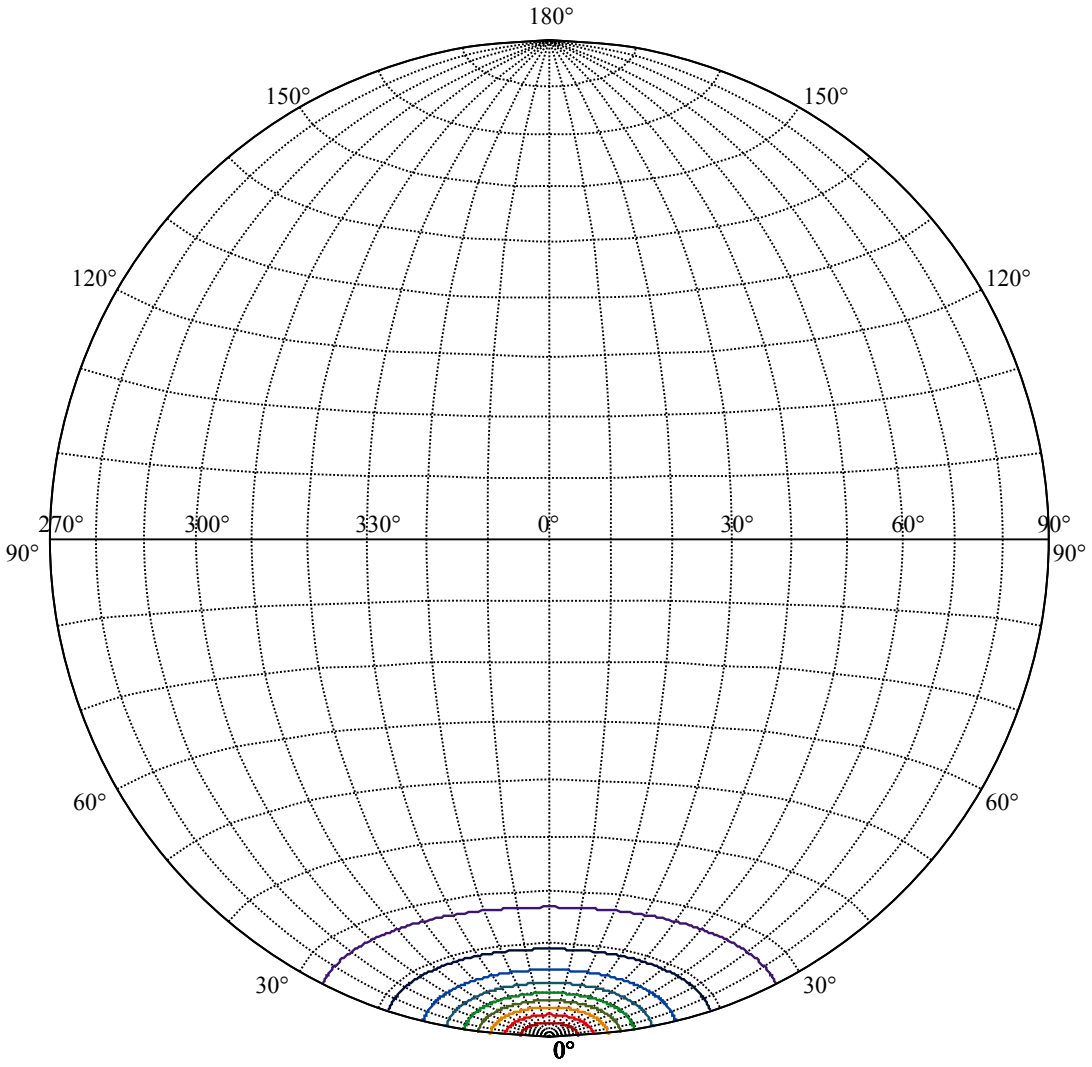


Equipment: GMS1980 Date: 2024/3/26 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65



Equipment: GMS1980
Temperature(°C): 25.0
Date: 2024/3/26
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



[Unit:cd]

Imax:15225.21

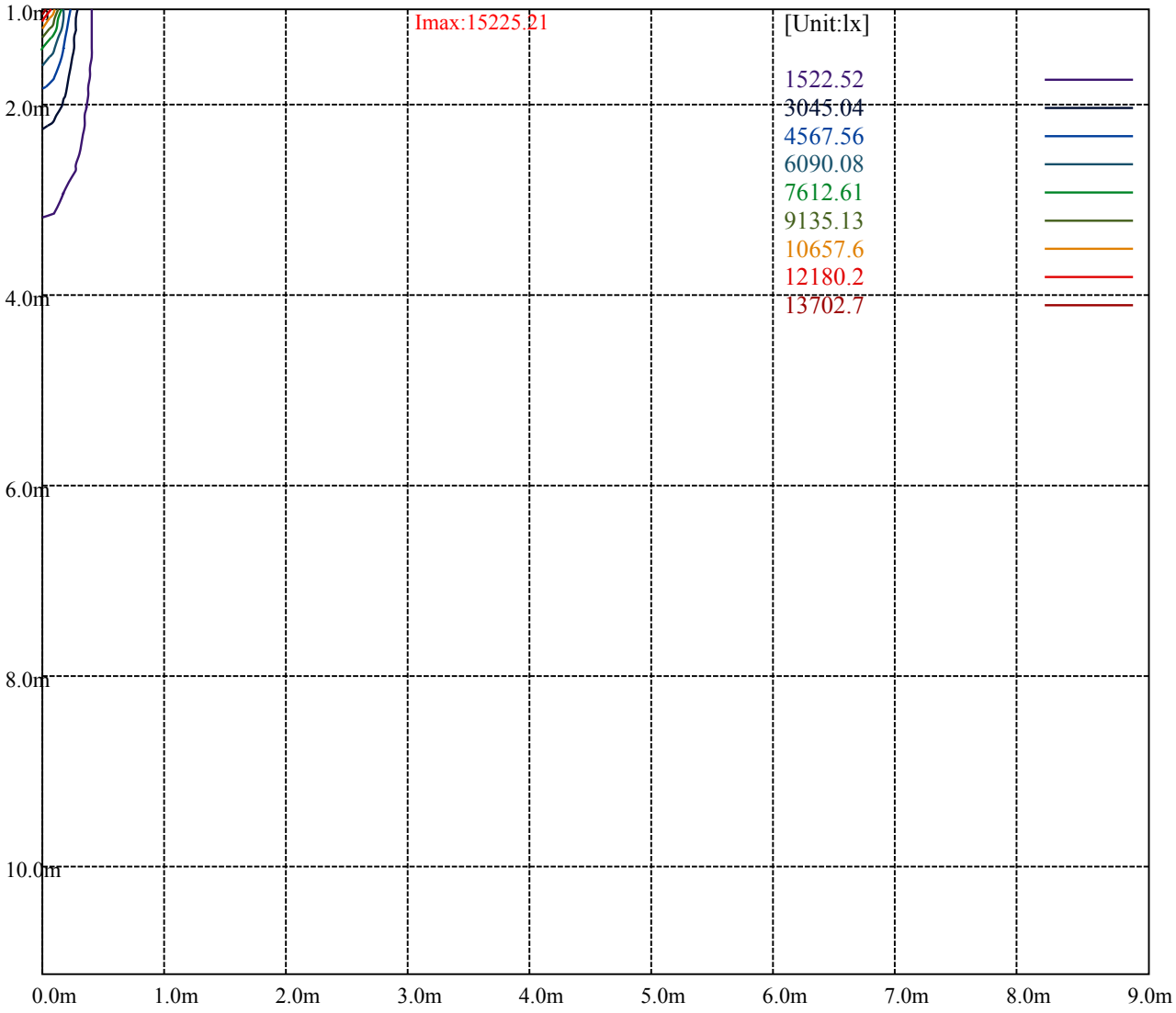
(10%Imax) 1522.52
(20%Imax) 3045.04
(30%Imax) 4567.56
(40%Imax) 6090.08
(50%Imax) 7612.61
(60%Imax) 9135.13
(70%Imax) 10657.6
(80%Imax) 12180.2
(90%Imax) 13702.7

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/26
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/26
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

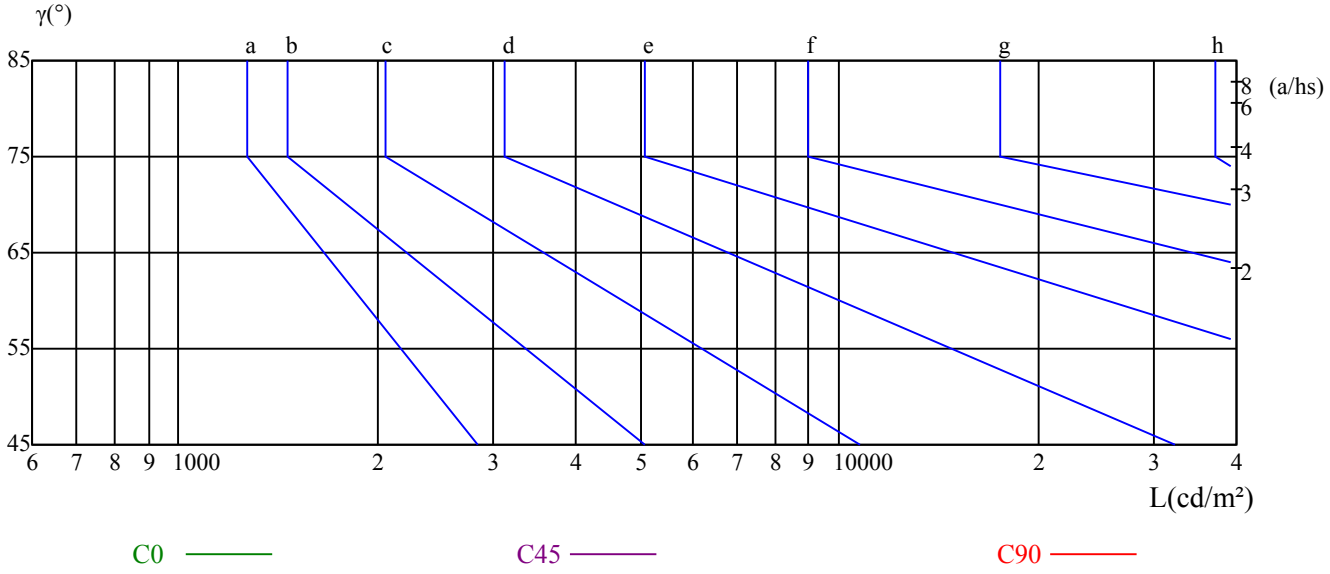
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

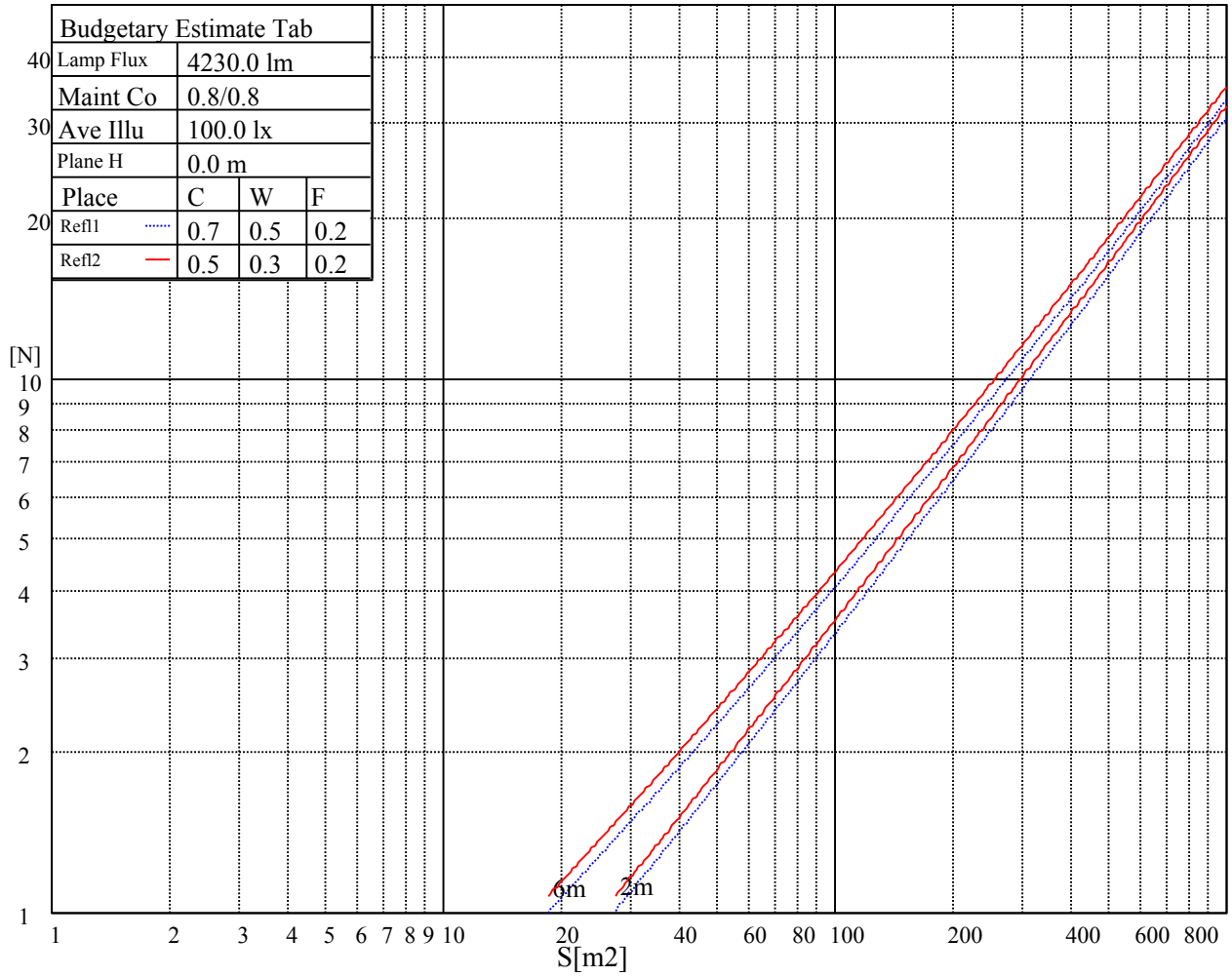
Luminance Limitting Curve



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

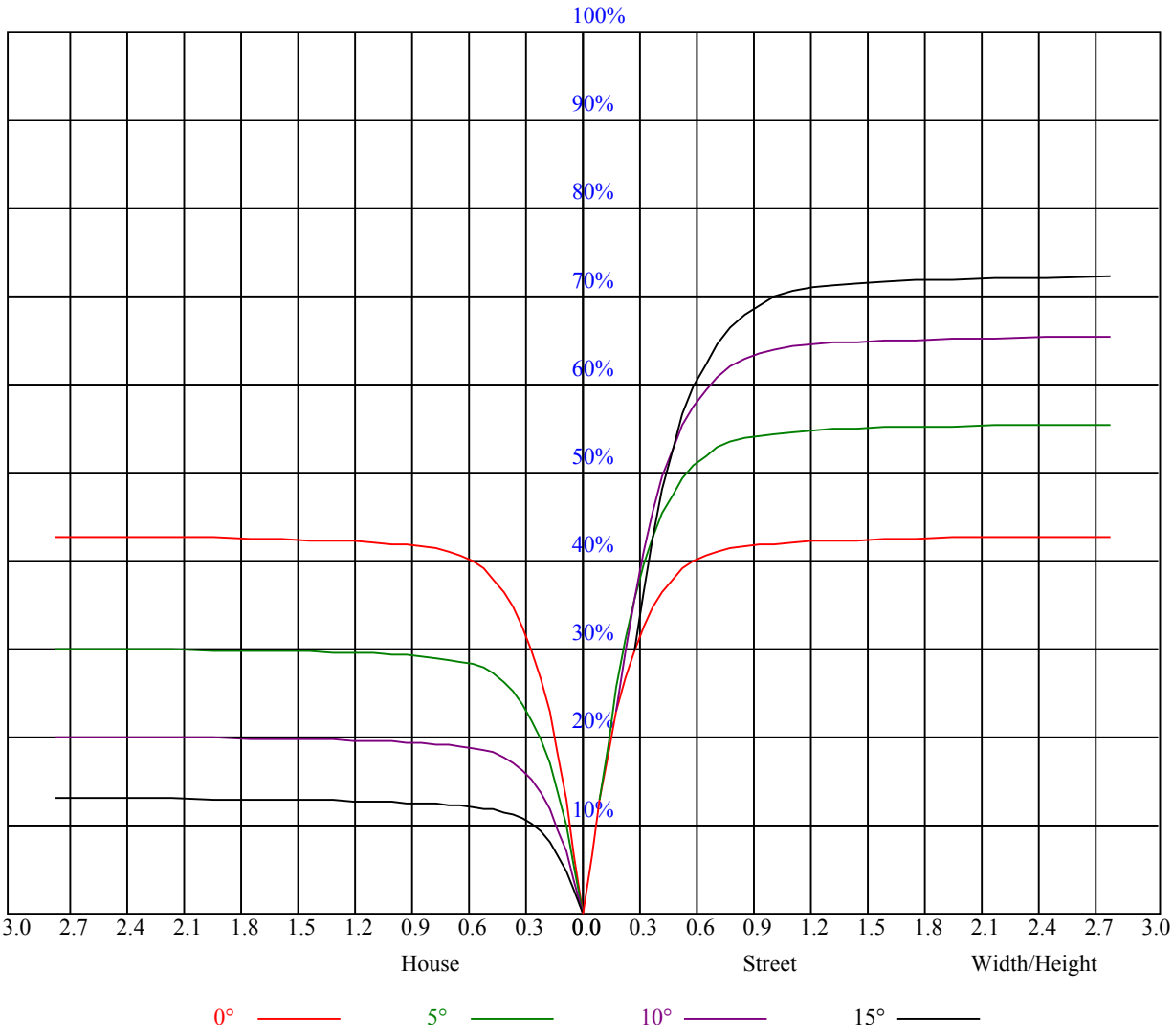


Equipment: GMS1980 Date: 2024/3/26 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Utilization factor table for indoor luminaire

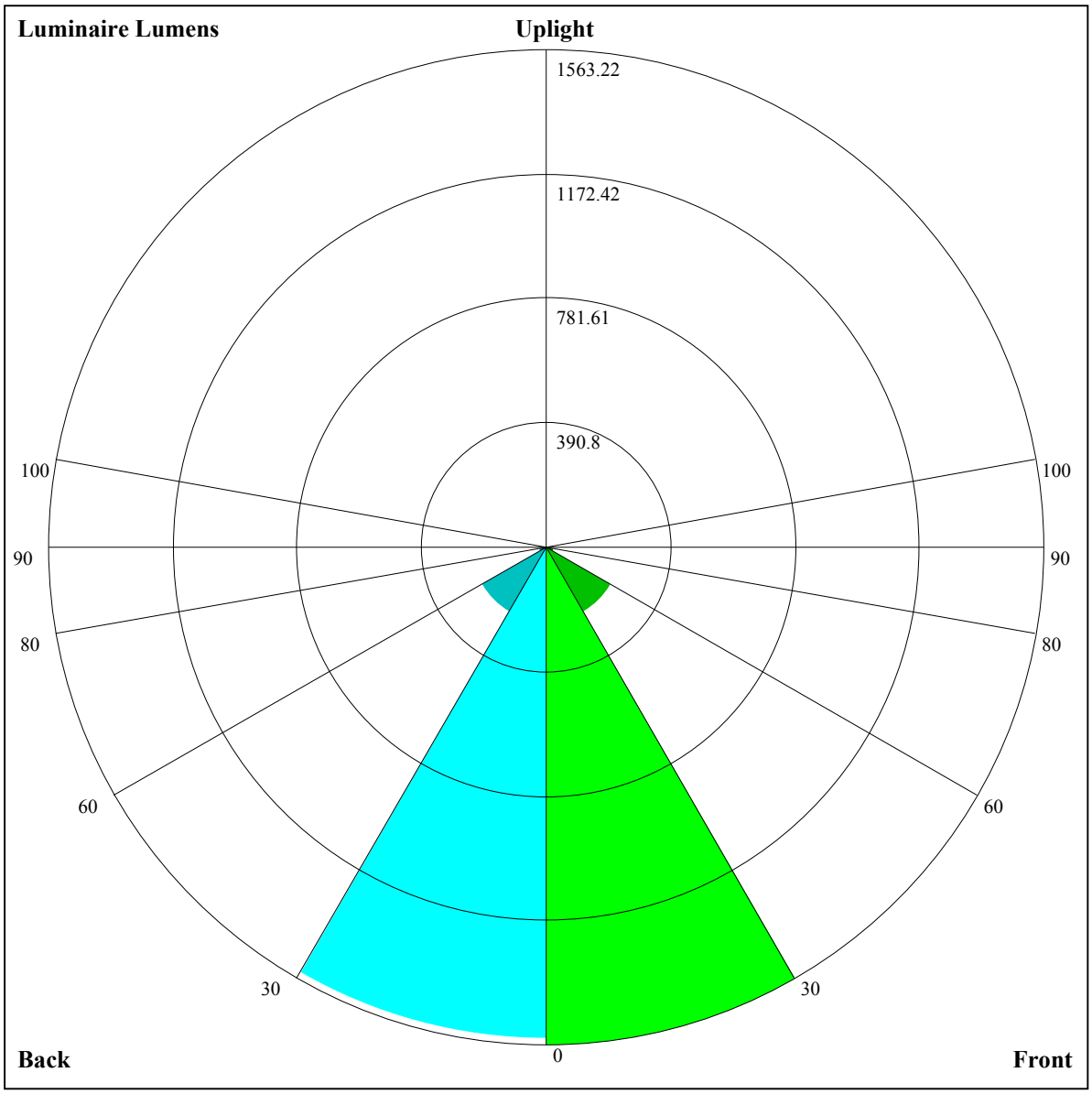
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.03	1.03	1.03	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.96	0.94	0.92	0.94	0.93	0.91	0.91	0.89	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.82
2	0.91	0.88	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.79	0.77
3	0.86	0.82	0.79	0.85	0.81	0.79	0.82	0.80	0.77	0.80	0.78	0.76	0.79	0.77	0.75	0.74
4	0.82	0.78	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.74	0.72	0.76	0.73	0.72	0.70
5	0.78	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.74	0.71	0.69	0.73	0.70	0.68	0.67
6	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.64
7	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
8	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.63	0.61	0.58	0.57
10	0.64	0.60	0.57	0.63	0.59	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.61	0.58	0.56	0.55

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/3/26	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

LCS Graph



Luminaire Lumens:
FL=1563.22,FM=237.51,FH=26.89,FVH=8.92
BL=1546.55,BM=232.18,BH=26.67,BVH=8.9
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	15272.03	15084.76	14710.22	14002.09	11653.64	11653.64	11409.61	10147.27	9183.99
45.0	15184.25	15283.74	15172.54	14862.37	14224.48	13522.21	12679.48	11479.77	10455.63
90.0	15272.03	15073.06	14716.07	14177.66	12919.43	11616.19	11369.22	10352.10	9376.53
135.0	15172.54	15242.77	15096.46	14628.28	14037.21	13048.18	12123.52	11128.64	9876.26
180.0	15272.03	15190.10	14897.49	14417.60	13574.88	12726.30	11754.83	10695.57	9408.08
225.0	15184.25	14780.44	14259.59	13574.88	11450.57	11450.57	10401.26	9372.44	8208.42
270.0	15272.03	15190.10	14885.78	14394.19	13569.03	12749.71	11526.59	10484.89	9478.30
315.0	15172.54	14815.56	14312.26	13662.66	11428.92	11428.92	10651.15	9638.71	8703.52
360.0	15272.03	15084.76	14710.22	14002.09	11653.64	11653.64	11409.61	10147.27	9183.99

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8091.96	7301.33	6600.23	5966.43	5285.23	4795.39	4363.50	3971.98	3541.84
45.0	9478.30	8348.82	7529.50	6809.68	6007.92	5451.96	4936.96	4486.33	3983.04
90.0	8257.58	7457.00	6747.70	5965.26	5401.69	4774.91	4339.50	3950.91	3529.55
135.0	8928.19	8079.62	7307.12	6470.25	5867.47	5305.65	4790.65	4240.54	3860.14
180.0	8483.42	7640.70	6716.04	6078.15	5504.63	4843.32	4398.55	4000.60	3561.68
225.0	7375.65	6477.33	5849.38	5303.95	4807.68	4266.93	3884.78	3544.77	3249.81
270.0	8342.97	7511.95	6762.86	6101.56	5399.29	4884.29	4445.37	4041.56	3602.65
315.0	7835.05	6896.94	6231.53	5657.43	5022.46	4566.57	4151.64	3698.10	3382.07
360.0	8091.96	7301.33	6600.23	5966.43	5285.23	4795.39	4363.50	3971.98	3541.84

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3257.42	3006.94	2787.49	2542.86	2361.44	2156.61	2002.70	1856.98	1681.41
45.0	3631.91	3333.44	3075.94	2953.05	2953.05	2409.43	2205.19	2051.27	1902.04
90.0	3244.55	2998.75	2779.29	2527.65	2350.32	2187.04	2034.30	1885.07	1705.40
135.0	3520.71	3169.58	2988.16	2988.16	2481.41	2306.43	2143.15	1952.37	1804.89
180.0	3263.21	2988.16	2988.16	2524.13	2331.01	2183.53	2028.45	1861.07	1724.13
225.0	2927.94	2704.97	2507.75	2326.91	2125.60	1980.46	1805.48	1670.29	1532.76
270.0	3292.48	3017.42	2958.90	2724.87	2358.52	2171.83	2012.06	1878.63	1704.23
315.0	3042.64	2816.75	2613.09	2425.23	2218.06	2064.15	1919.01	1779.73	1606.50
360.0	3257.42	3006.94	2787.49	2542.86	2361.44	2156.61	2002.70	1856.98	1681.41

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1541.54	1151.37	1151.37	1079.21	936.71	799.30	672.54	541.98	462.85
45.0	1719.45	1574.31	1430.93	1250.10	1105.55	961.58	789.53	665.46	561.29
90.0	1559.10	1151.78	1151.78	1078.80	897.15	760.56	638.95	519.91	447.40
135.0	1658.00	1512.87	1334.96	1193.33	1050.54	907.74	737.44	619.81	527.93
180.0	1582.51	1420.98	1283.46	1093.84	952.22	814.11	683.02	546.66	465.90
225.0	1142.18	1142.18	1068.97	890.13	755.88	636.26	537.94	444.13	383.44
270.0	1567.88	1435.62	1293.41	1101.45	959.83	824.06	692.96	560.12	478.19
315.0	1469.56	1149.32	1149.32	1005.94	862.86	696.42	583.24	493.70	407.38
360.0	1541.54	1151.37	1151.37	1079.21	936.71	799.30	672.54	541.98	462.85

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	398.19	331.30	285.12	244.98	203.89	177.15	154.85	131.32	114.70
45.0	478.77	395.67	341.83	306.13	306.13	211.03	183.99	161.11	136.77
90.0	387.95	338.03	293.43	245.21	213.31	185.11	154.91	134.13	116.05
135.0	440.73	382.80	321.35	299.11	299.11	199.80	172.52	148.53	128.16
180.0	399.18	341.83	303.79	303.79	202.96	175.10	146.72	127.58	110.31
225.0	332.29	287.29	240.23	208.16	180.48	152.16	132.26	114.88	98.03
270.0	412.64	344.17	297.35	297.35	210.68	182.59	159.71	135.36	118.10
315.0	349.96	300.69	248.78	213.61	183.47	158.71	138.52	117.69	103.88
360.0	398.19	331.30	285.12	244.98	203.89	177.15	154.85	131.32	114.70

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	100.66	87.08	78.77	72.74	68.76	64.37	62.38	62.03	61.10
45.0	119.56	102.30	91.41	82.46	75.20	69.88	66.60	64.20	63.15
90.0	98.03	87.55	79.65	71.98	67.83	64.78	62.38	61.86	60.69
135.0	107.92	95.16	84.97	76.84	70.81	65.95	62.97	61.33	60.69
180.0	92.88	82.81	75.20	68.24	64.43	60.63	58.70	58.41	58.00
225.0	87.67	78.77	71.63	68.12	64.67	62.79	61.92	60.45	59.58
270.0	103.76	90.01	81.40	74.97	70.81	65.95	63.73	62.85	61.62
315.0	92.70	81.23	74.15	69.70	65.31	62.27	61.21	60.16	58.87
360.0	100.66	87.08	78.77	72.74	68.76	64.37	62.38	62.03	61.10

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	59.87	59.99	59.34	57.76	56.12	52.44	48.57	44.77	41.49
45.0	61.45	60.34	60.28	59.58	57.59	55.83	52.44	48.52	44.48
90.0	59.81	59.40	58.76	57.06	55.30	51.79	47.99	43.42	40.15
135.0	59.40	59.05	59.05	58.17	56.06	54.37	51.21	47.17	42.96
180.0	56.77	57.00	56.65	55.54	53.84	51.38	47.87	44.13	40.32
225.0	59.75	59.05	57.47	55.60	52.55	48.81	44.01	40.67	36.34
270.0	60.04	59.93	59.17	57.53	55.60	51.97	48.05	44.18	40.85
315.0	58.46	58.17	56.77	55.01	53.26	49.57	44.48	41.38	37.81
360.0	59.87	59.99	59.34	57.76	56.12	52.44	48.57	44.77	41.49

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	36.28	32.71	30.31	28.21	26.34	25.22	24.29	23.29	22.59
45.0	40.50	36.34	32.54	29.67	27.80	26.28	25.16	24.05	23.35
90.0	35.99	31.89	29.67	27.74	26.04	24.99	24.05	23.29	22.59
135.0	39.33	35.11	31.89	29.20	27.39	25.98	24.64	23.82	23.06
180.0	36.17	31.72	29.44	27.39	25.63	24.58	23.70	23.00	22.12
225.0	32.60	29.61	27.62	26.16	25.11	23.99	23.23	22.53	21.89
270.0	35.70	32.07	29.61	27.68	25.93	24.93	24.11	23.17	22.47
315.0	32.60	29.96	27.51	25.98	24.93	23.88	23.17	22.53	21.89
360.0	36.28	32.71	30.31	28.21	26.34	25.22	24.29	23.29	22.59

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	21.95	21.30	20.83	20.42	19.96	19.55	19.08	18.73	18.14
45.0	22.59	21.95	21.30	20.89	20.48	20.01	19.66	19.14	18.73
90.0	21.89	21.30	20.89	20.37	20.07	19.66	19.14	18.73	18.14
135.0	22.24	21.65	21.19	20.60	20.25	19.90	19.55	19.02	18.61
180.0	21.54	21.07	20.60	20.13	19.78	19.43	18.96	18.55	18.14
225.0	21.24	20.78	20.31	19.96	19.55	19.08	18.67	18.20	17.73
270.0	21.89	21.30	20.83	20.31	19.96	19.61	19.20	18.67	18.26
315.0	21.24	20.83	20.42	20.07	19.66	19.25	18.84	18.32	17.91
360.0	21.95	21.30	20.83	20.42	19.96	19.55	19.08	18.73	18.14

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	17.73	17.26	16.85	16.50	16.21	15.86	15.63	15.39	15.10
45.0	18.26	17.73	17.26	16.85	16.44	16.09	15.80	15.51	15.27
90.0	17.79	17.44	16.97	16.50	16.21	15.86	15.57	15.33	15.10
135.0	18.20	17.73	17.26	16.80	16.44	16.09	15.80	15.51	15.27
180.0	17.67	17.26	16.80	16.44	16.09	15.80	15.51	15.27	15.04
225.0	17.26	16.85	16.56	16.09	15.86	15.57	15.27	15.04	14.98
270.0	17.85	17.38	16.91	16.50	16.15	15.86	15.57	15.33	15.04
315.0	17.50	17.03	16.62	16.27	15.92	15.63	15.33	15.16	14.98
360.0	17.73	17.26	16.85	16.50	16.21	15.86	15.63	15.39	15.10

Intensity data(cd)

C/γ(°)	90.0
0.0	15.04
45.0	15.04
90.0	15.04
135.0	15.10
180.0	14.98
225.0	15.04
270.0	15.04
315.0	14.98
360.0	15.04