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: 2-2681-L
Luminaire: 92.70.411.00
Report No: 2024418-B009
Ballast type: AC

Test No: 2024418-C009	Voltage(V): 33.650
LampCAT: NICHIA NFCWJ120B-V3	Current(A): 0.576
Lamp flux(lm): 2726.0	Power (W): 19.382
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2270.41, Efficiency(%): 83.29% , Luminous Efficacy(lm/W): 117.14
Central intensity(cd): 4079.809, Maximum intensity(cd): 4079.809
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=44.2
[C90/270]Total=44.2
Field angle(10%Imax): [C0/180]Total=68.2
[C90/270]Total=68.2
Maximum s/h(1/2): C0_180=0.71 C90_270=0.71
Maximum s/h(1/4): C0_180=0.69 C90_270=0.69
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 83.29%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.756%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4079.808	0.000	0	0.00%	0.00%
1.0	4074.688	3.902	3.902	0.14%	0.17%
2.0	4060.423	11.676	15.578	0.43%	0.69%
3.0	4037.306	19.367	34.945	0.71%	1.54%
4.0	4003.583	26.915	61.861	0.99%	2.72%
5.0	3960.203	34.260	96.12	1.26%	4.23%
6.0	3903.875	41.328	137.448	1.52%	6.05%
7.0	3840.012	48.066	185.514	1.76%	8.17%
8.0	3768.103	54.450	239.964	2.00%	10.57%
9.0	3687.269	60.422	300.386	2.22%	13.23%
10.0	3597.290	65.923	366.309	2.42%	16.13%
11.0	3503.069	70.947	437.256	2.60%	19.26%
12.0	3400.143	75.462	512.718	2.77%	22.58%
13.0	3296.119	79.468	592.185	2.92%	26.08%
14.0	3173.734	82.814	674.999	3.04%	29.73%
15.0	3053.763	85.494	760.493	3.14%	33.50%
16.0	2921.575	87.555	848.048	3.21%	37.35%
17.0	2795.459	89.030	937.078	3.27%	41.27%
18.0	2653.469	89.841	1026.919	3.30%	45.23%
19.0	2511.332	89.857	1116.776	3.30%	49.19%
20.0	2365.538	89.260	1206.036	3.27%	53.12%
21.0	2214.916	87.954	1293.99	3.23%	56.99%
22.0	2059.685	85.900	1379.89	3.15%	60.78%
23.0	1911.696	83.330	1463.22	3.06%	64.45%
24.0	1764.658	80.378	1543.599	2.95%	67.99%
25.0	1595.309	76.398	1619.997	2.80%	71.35%
26.0	1418.827	71.149	1691.146	2.61%	74.49%
27.0	1256.215	65.445	1756.591	2.40%	77.37%
28.0	1160.830	61.194	1817.786	2.24%	80.06%
29.0	1018.350	57.014	1874.799	2.09%	82.58%
30.0	875.094	51.123	1925.922	1.88%	84.83%
31.0	739.498	44.932	1970.854	1.65%	86.81%
32.0	615.262	38.812	2009.666	1.42%	88.52%
33.0	503.732	32.966	2042.632	1.21%	89.97%
34.0	412.949	27.741	2070.373	1.02%	91.19%
35.0	328.553	23.028	2093.402	0.84%	92.20%
36.0	272.334	19.132	2112.534	0.70%	93.05%
37.0	228.969	16.350	2128.884	0.60%	93.77%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	161.171	13.022	2141.906	0.48%	94.34%
39.0	111.851	9.319	2151.225	0.34%	94.75%
40.0	88.237	6.978	2158.204	0.26%	95.06%
41.0	71.024	5.671	2163.875	0.21%	95.31%
42.0	59.334	4.736	2168.611	0.17%	95.52%
43.0	51.529	4.107	2172.718	0.15%	95.70%
44.0	46.225	3.690	2176.407	0.14%	95.86%
45.0	42.253	3.400	2179.808	0.12%	96.01%
46.0	39.356	3.192	2182.999	0.12%	96.15%
47.0	37.067	3.040	2186.039	0.11%	96.28%
48.0	35.274	2.924	2188.963	0.11%	96.41%
49.0	33.716	2.833	2191.796	0.10%	96.54%
50.0	32.473	2.760	2194.556	0.10%	96.66%
51.0	31.310	2.699	2197.254	0.10%	96.78%
52.0	30.285	2.643	2199.897	0.10%	96.89%
53.0	29.408	2.597	2202.494	0.10%	97.01%
54.0	28.515	2.553	2205.047	0.09%	97.12%
55.0	27.681	2.509	2207.556	0.09%	97.23%
56.0	26.855	2.464	2210.02	0.09%	97.34%
57.0	26.138	2.423	2212.443	0.09%	97.45%
58.0	25.384	2.383	2214.825	0.09%	97.55%
59.0	24.689	2.341	2217.166	0.09%	97.65%
60.0	23.987	2.300	2219.466	0.08%	97.76%
61.0	23.350	2.259	2221.725	0.08%	97.86%
62.0	22.692	2.219	2223.944	0.08%	97.95%
63.0	22.063	2.177	2226.12	0.08%	98.05%
64.0	21.427	2.134	2228.254	0.08%	98.14%
65.0	20.805	2.090	2230.344	0.08%	98.24%
66.0	20.161	2.044	2232.388	0.07%	98.33%
67.0	19.568	1.998	2234.386	0.07%	98.41%
68.0	19.012	1.954	2236.34	0.07%	98.50%
69.0	18.581	1.918	2238.258	0.07%	98.58%
70.0	18.222	1.890	2240.148	0.07%	98.67%
71.0	17.988	1.872	2242.02	0.07%	98.75%
72.0	17.725	1.857	2243.877	0.07%	98.83%
73.0	17.491	1.842	2245.718	0.07%	98.91%
74.0	17.359	1.832	2247.551	0.07%	98.99%
75.0	17.228	1.827	2249.378	0.07%	99.07%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.942	1.814	2251.192	0.07%	99.15%
77.0	16.511	1.784	2252.975	0.07%	99.23%
78.0	16.064	1.744	2254.719	0.06%	99.31%
79.0	15.428	1.692	2256.411	0.06%	99.38%
80.0	14.799	1.630	2258.041	0.06%	99.46%
81.0	13.892	1.552	2259.592	0.06%	99.52%
82.0	13.029	1.460	2261.052	0.05%	99.59%
83.0	12.399	1.382	2262.435	0.05%	99.65%
84.0	11.624	1.309	2263.743	0.05%	99.71%
85.0	10.834	1.226	2264.969	0.04%	99.76%
86.0	10.227	1.151	2266.12	0.04%	99.81%
87.0	9.927	1.103	2267.223	0.04%	99.86%
88.0	9.744	1.078	2268.301	0.04%	99.91%
89.0	9.612	1.061	2269.362	0.04%	99.95%
90.0	9.568	1.052	2270.413	0.04%	100.00%

Zonal flux distribution table

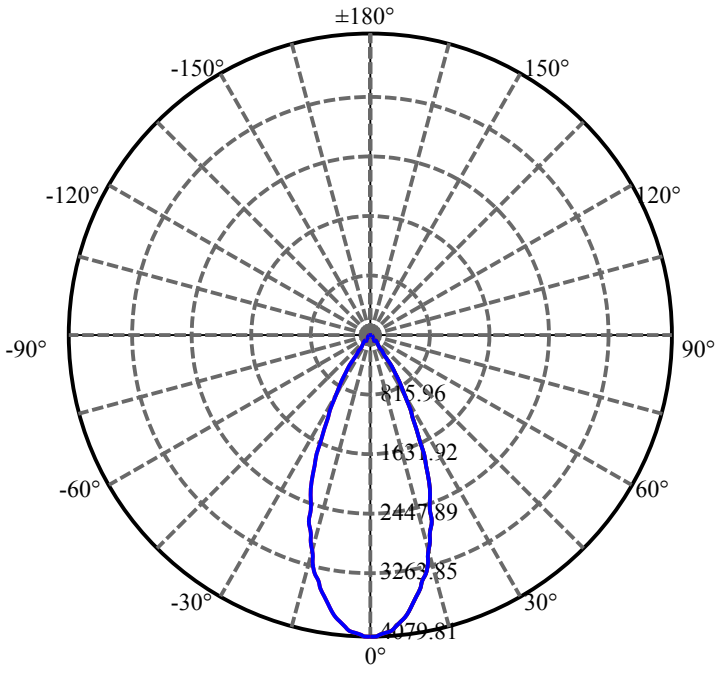
ZONAL LUMEN SUMMARY

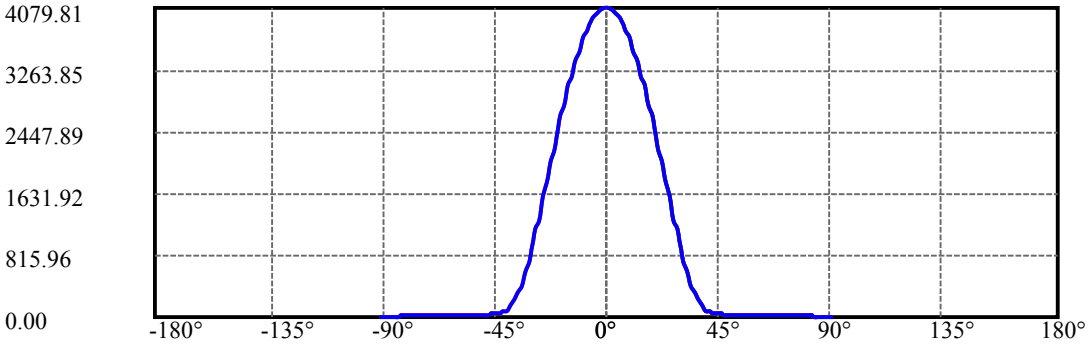
Zone	Lumens	%Lamp	%Fixt
0-30	1925.92	70.65%	84.83%
0-40	2158.20	79.17%	95.06%
0-60	2219.47	81.42%	97.76%
0-90	2269.36	83.25%	99.95%
0-120	2269.36	83.25%	99.95%
0-180	2270.41	83.29%	100.00%
60-90	49.90	1.83%	2.20%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.98	1816.33	66.63%	80.00%

ZONAL LUMEN SUMMARY

0-10	366.31
10-20	839.73
20-30	719.89
30-40	232.28
40-50	36.35
50-60	24.91
60-70	20.68
70-80	17.89
80-90	11.32
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):

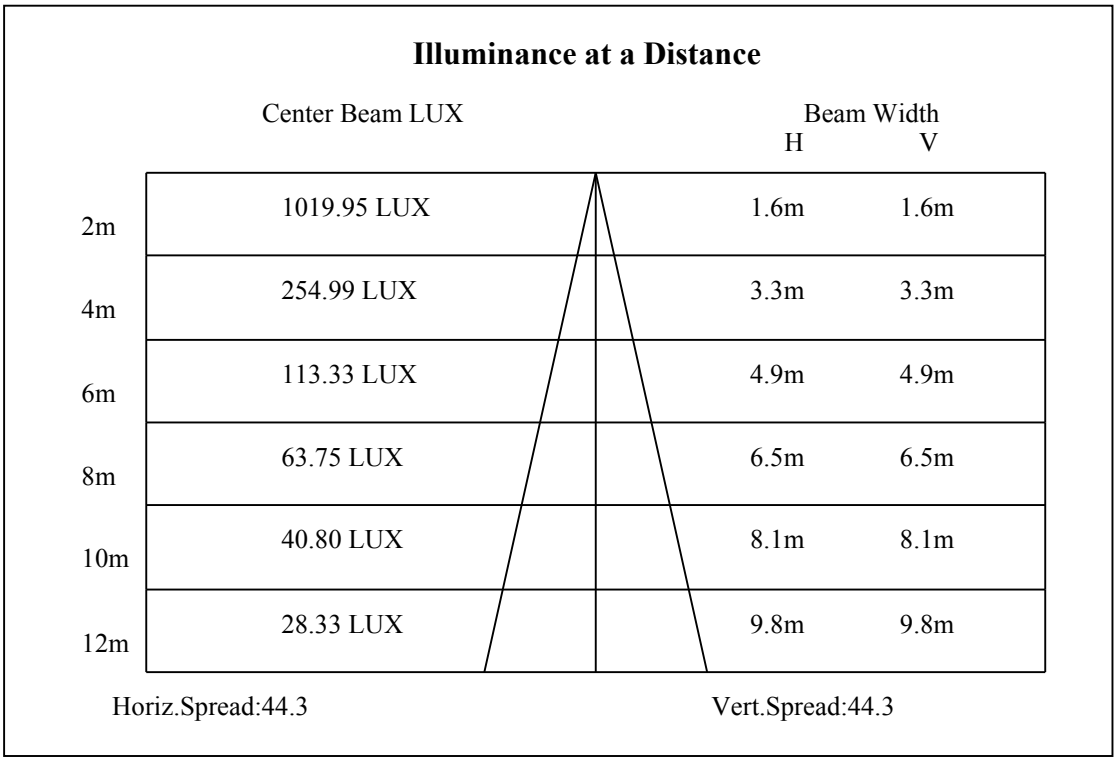
C0/C180:

C90/C270:

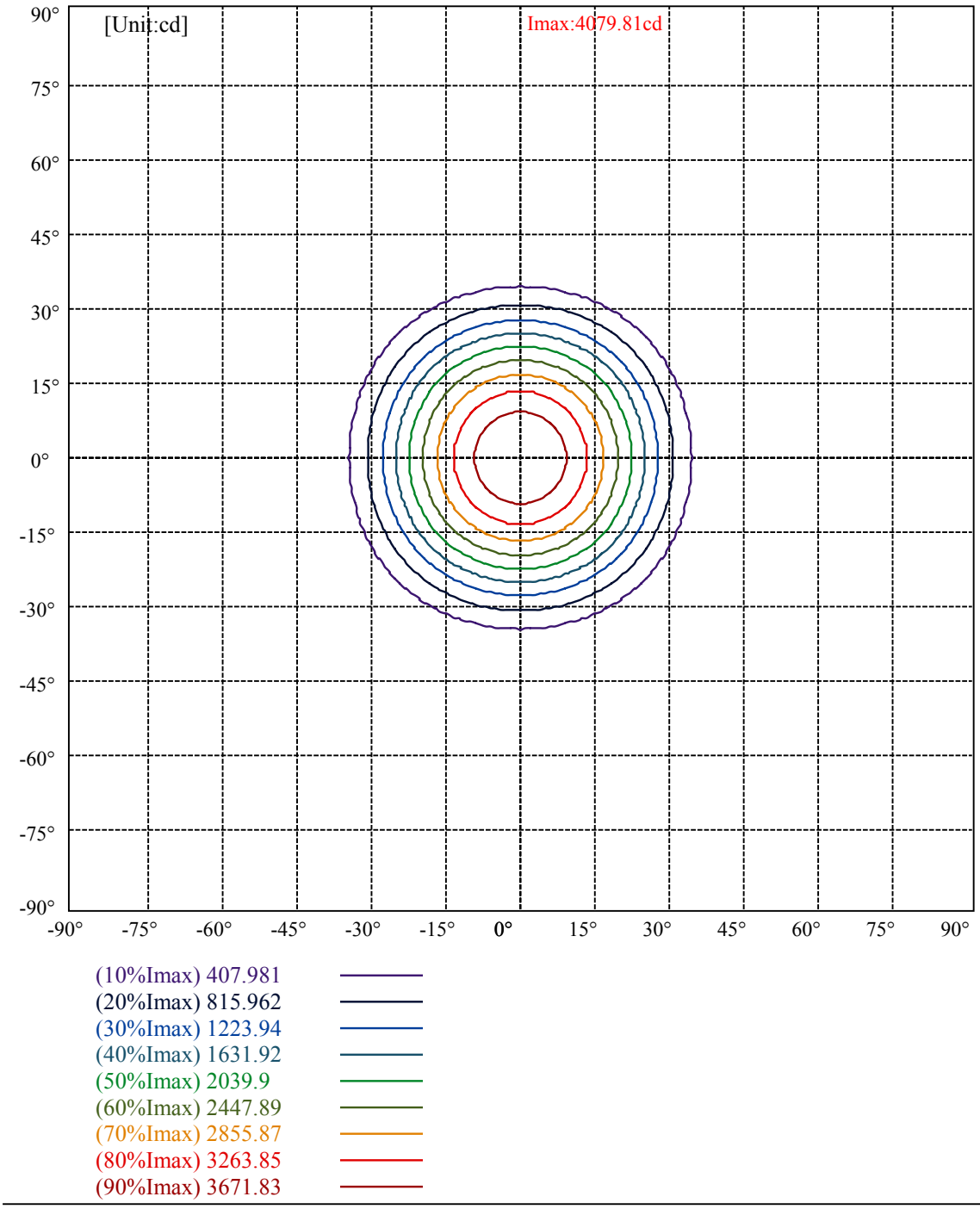
Field angle(10%Imax):C0/180Left:34.1 Right:34.1
:C90/270Left:34.1 Right:34.1

Beam Angle(50%Imax):C0/180Left:22.1 Right:22.1
:C90/270Left:22.1 Right:22.1

Lux distance Curve



ISO-Intensity(V-H)

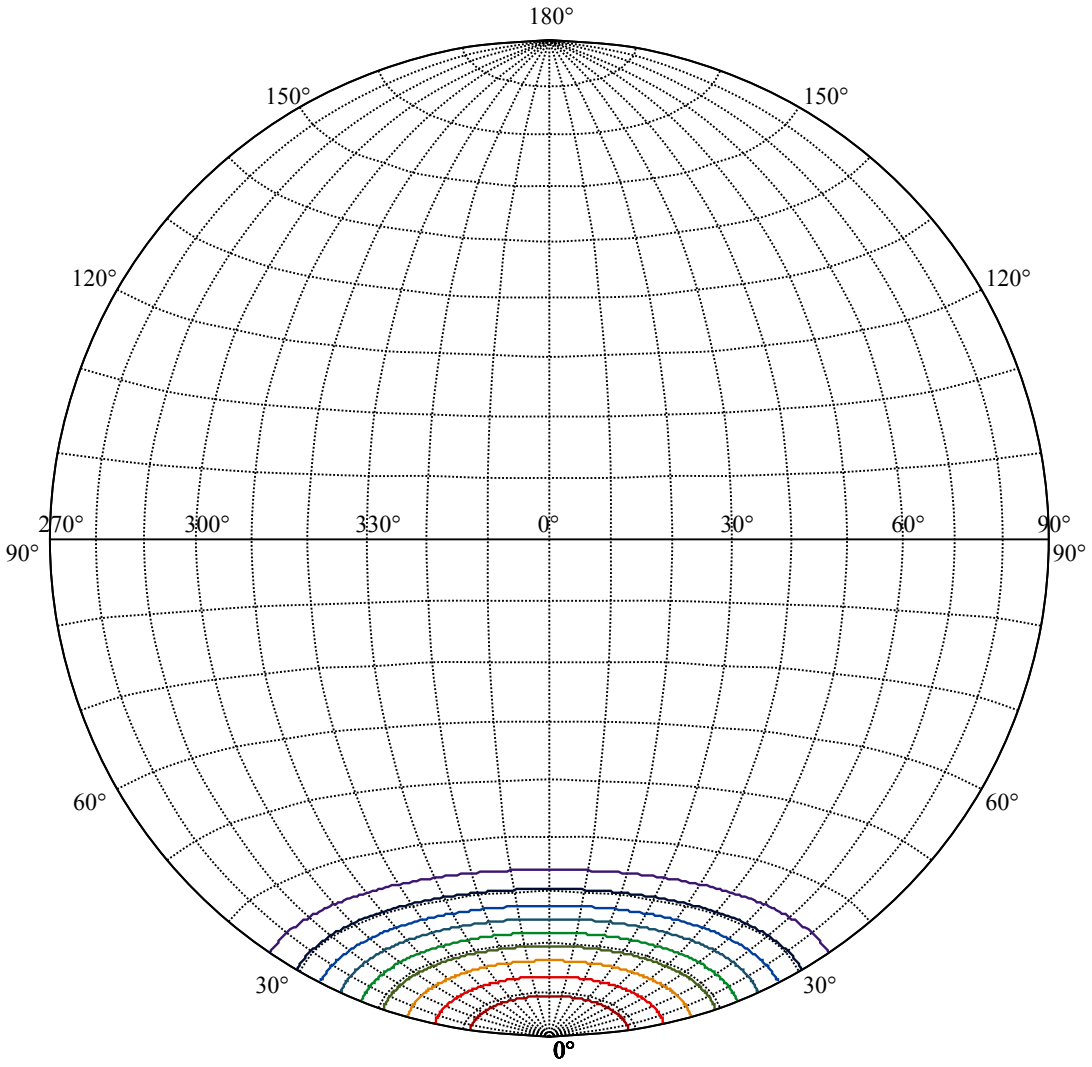


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web

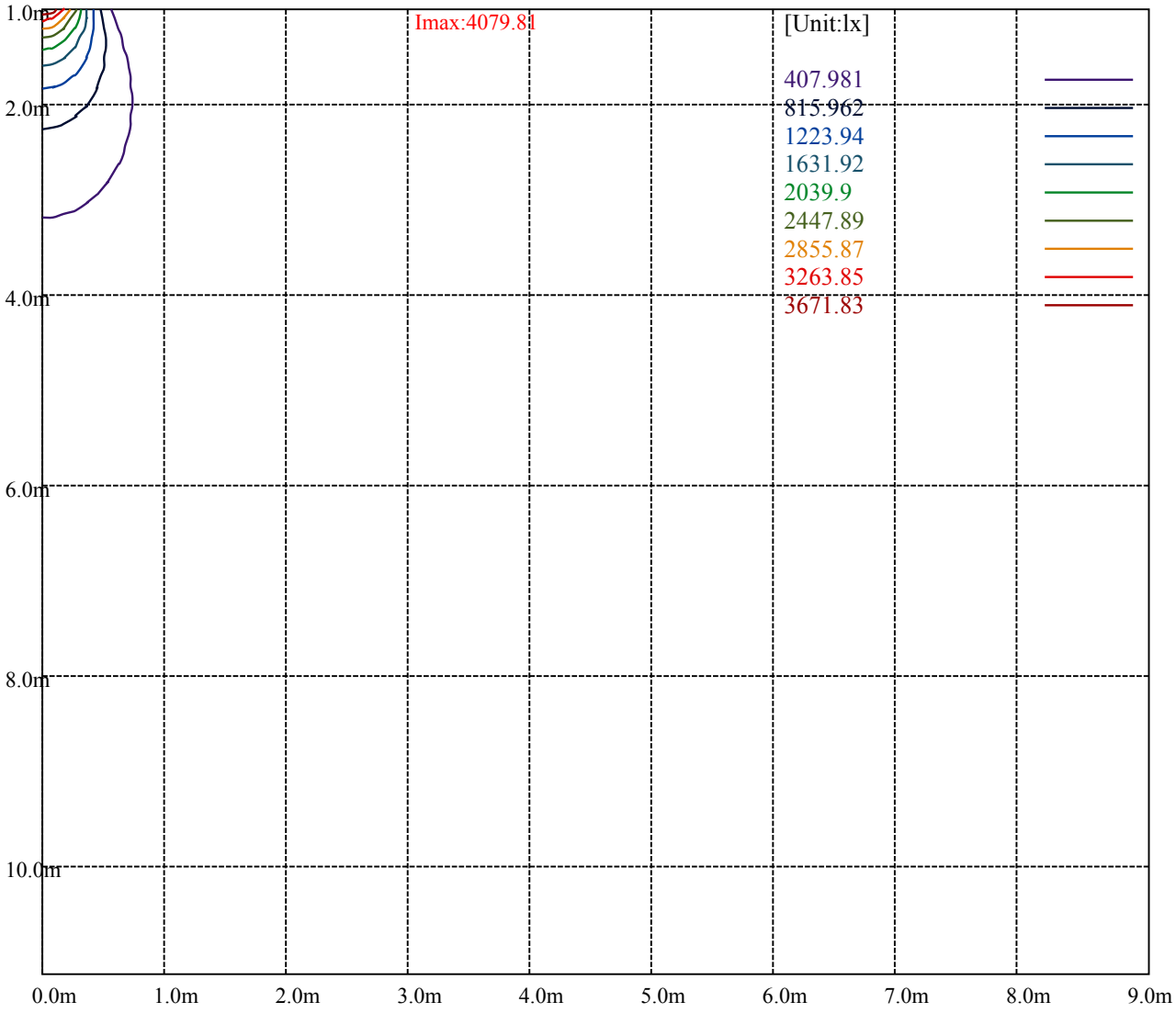


[Unit:cd]

Imax:4079.81

(10%Imax) 407.981
(20%Imax) 815.962
(30%Imax) 1223.94
(40%Imax) 1631.92
(50%Imax) 2039.9
(60%Imax) 2447.89
(70%Imax) 2855.87
(80%Imax) 3263.85
(90%Imax) 3671.83

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 2-2681-L

Luminance Limitting Curve(no luminous side)

Luminance Table

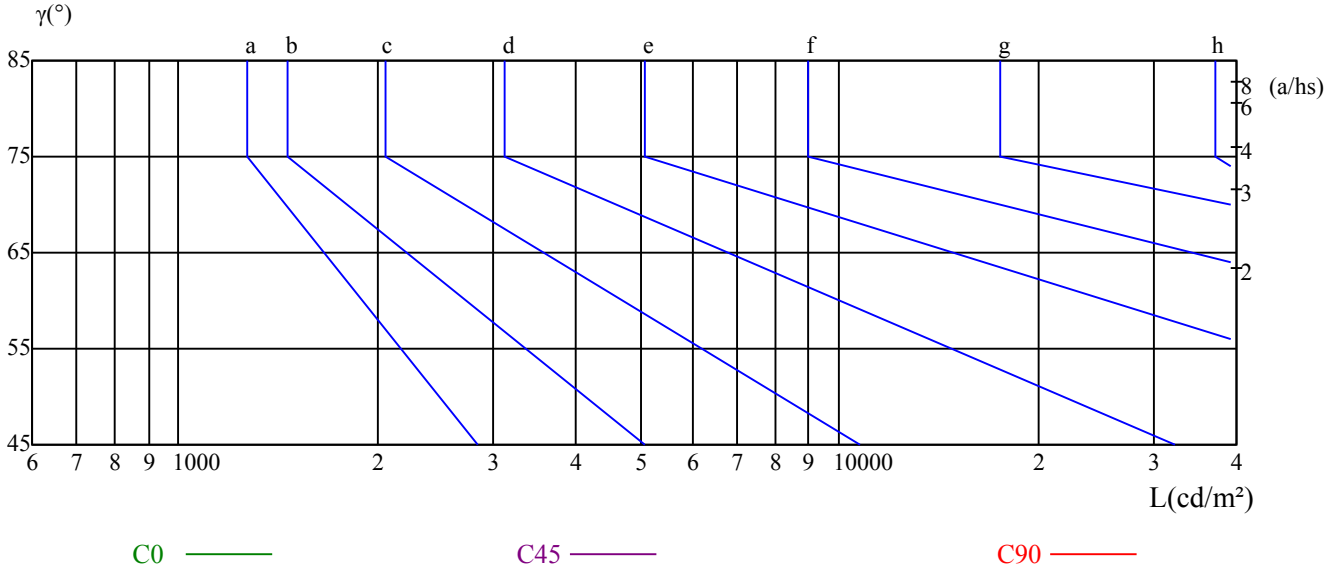
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

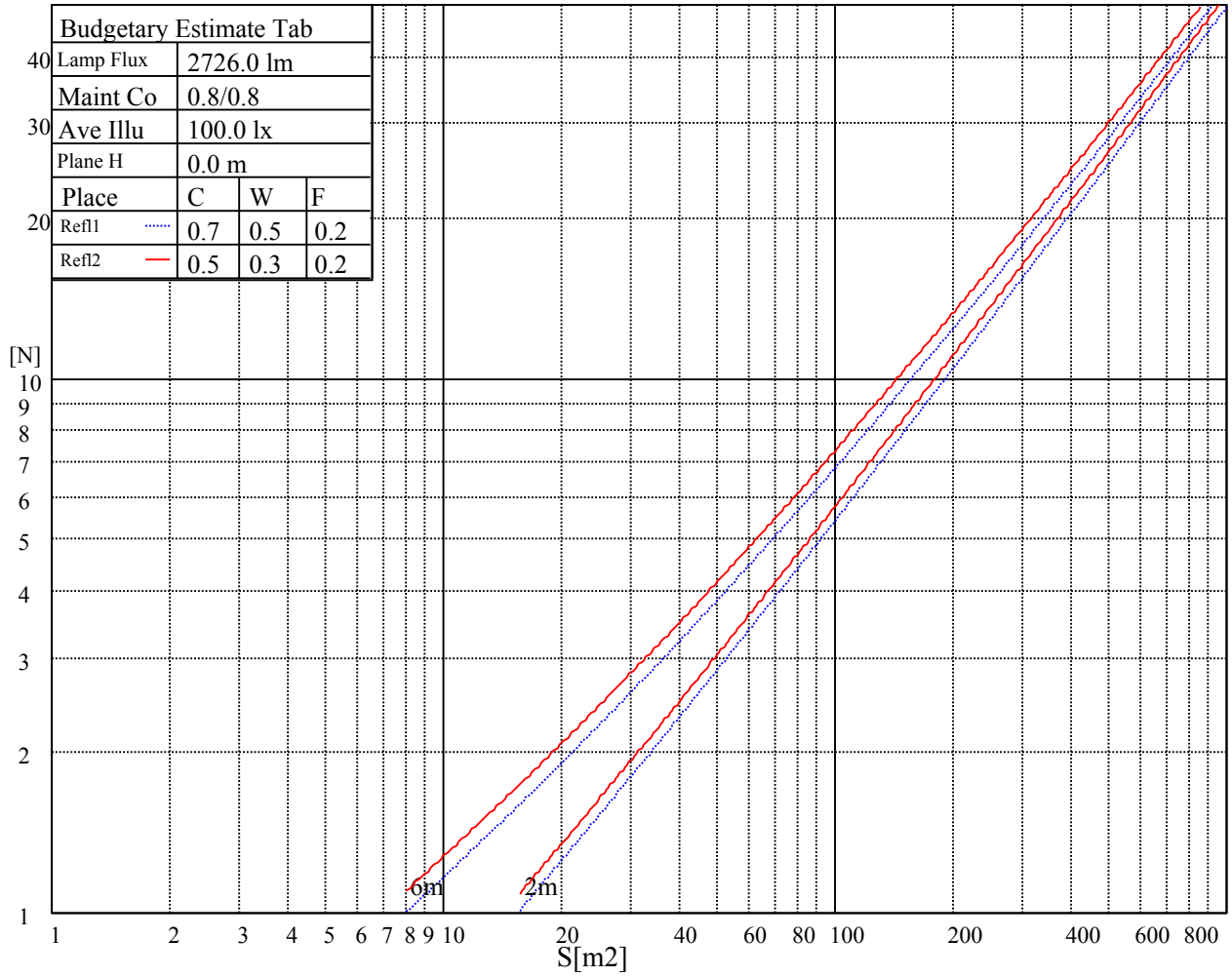
Luminance Limitting Curve



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

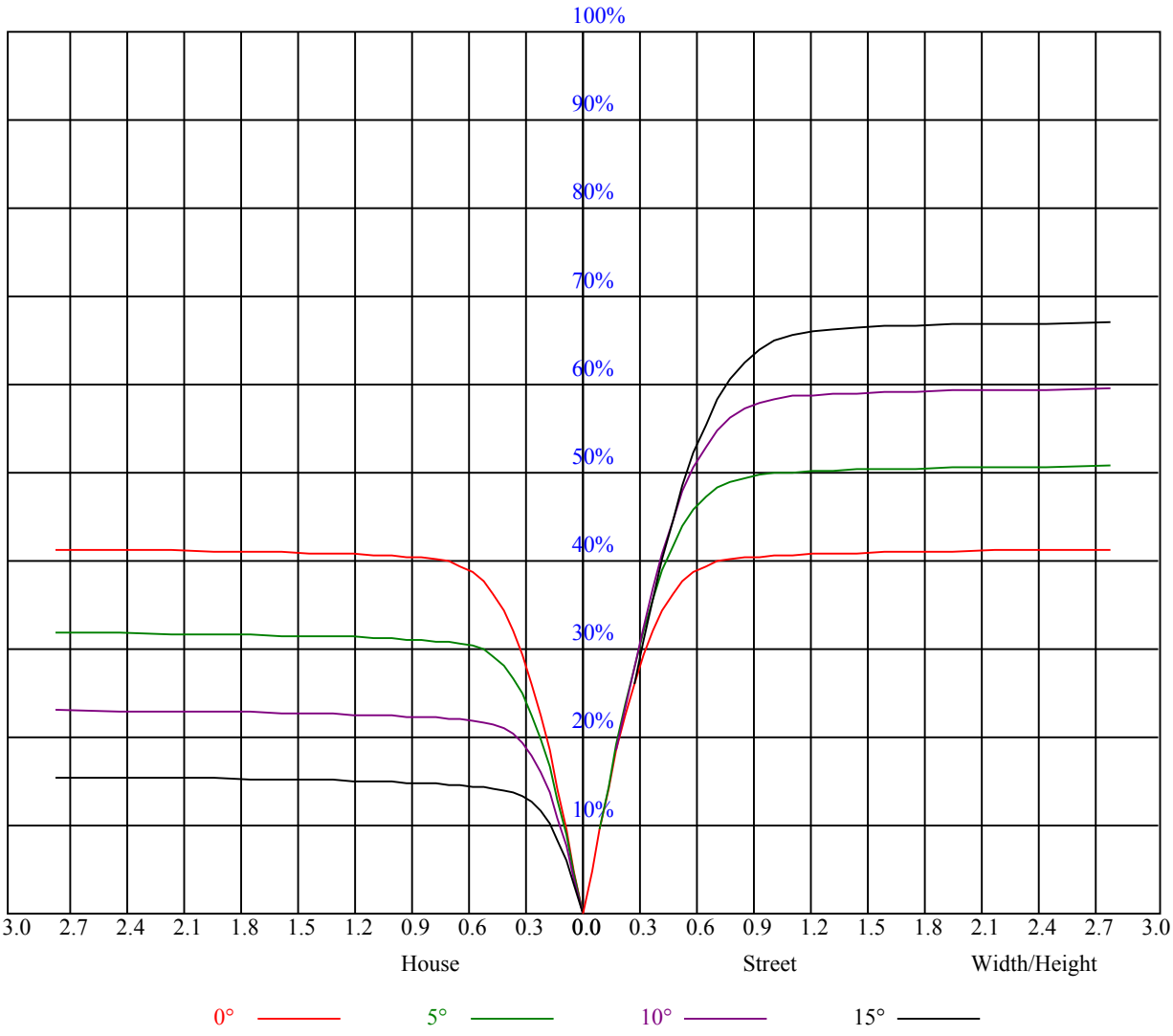


Equipment: GMS1980 Date: 2024/4/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

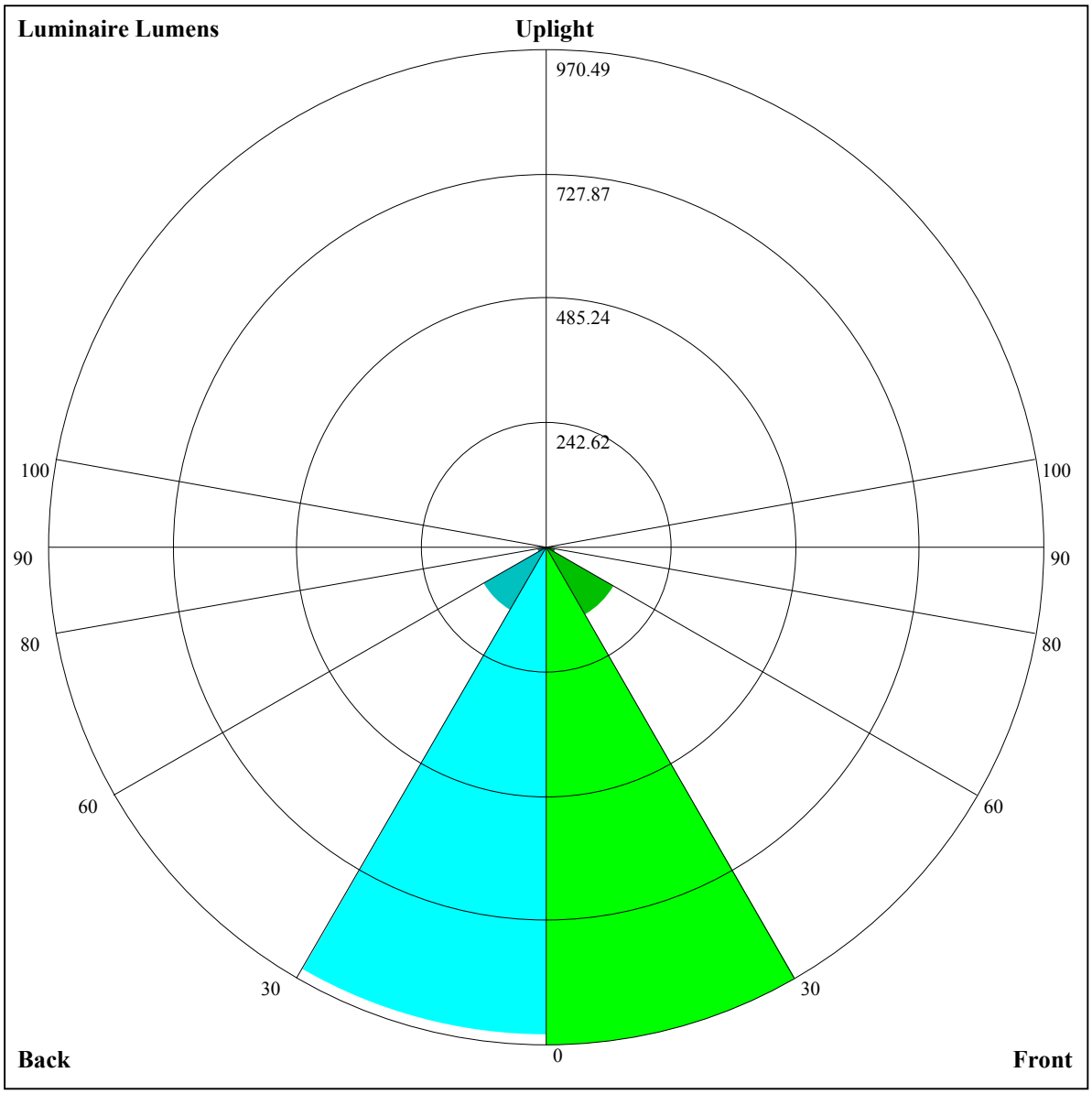
Utilization factor table for indoor luminaire

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	0.99	0.99	0.99	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.83
1	0.92	0.90	0.89	0.91	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.78
2	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.80	0.78	0.80	0.78	0.77	0.78	0.76	0.75	0.74
3	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.71	0.69
4	0.77	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.71	0.69	0.67	0.66
5	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.69	0.66	0.64	0.68	0.66	0.63	0.62
6	0.69	0.65	0.62	0.69	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.59
7	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.63	0.60	0.57	0.56
8	0.63	0.58	0.55	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.54
9	0.60	0.56	0.53	0.60	0.55	0.53	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.51
10	0.57	0.53	0.50	0.57	0.53	0.50	0.56	0.53	0.50	0.56	0.52	0.50	0.55	0.52	0.50	0.49

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/18	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=970.49,FM=153.2,FH=19.14,FVH=6.23
BL=951.95,BM=143.54,BH=19.26,BVH=6.18
UL=0,UH=0

BUG Rating:B2-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	4086.68	4082.00	4059.18	4045.72	4010.61	3966.13	3914.04	3854.94	3776.52
45.0	4074.39	4080.25	4079.08	4070.30	4050.40	4016.46	3981.93	3932.77	3862.54
90.0	4084.93	4085.51	4066.79	4046.30	4008.26	3967.88	3901.75	3840.30	3772.42
135.0	4073.22	4071.47	4069.71	4054.50	4025.24	3991.29	3940.38	3880.69	3804.61
180.0	4086.68	4080.83	4064.45	4040.45	4009.43	3963.20	3898.24	3840.30	3768.91
225.0	4074.39	4056.25	4035.77	3998.32	3945.06	3888.88	3831.53	3734.96	3657.13
270.0	4084.93	4077.91	4062.69	4039.28	4008.85	3971.98	3910.53	3845.57	3782.37
315.0	4073.22	4063.28	4045.72	4003.58	3970.81	3915.80	3852.59	3790.56	3720.33
360.0	4086.68	4082.00	4059.18	4045.72	4010.61	3966.13	3914.04	3854.94	3776.52

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3700.44	3619.09	3535.99	3418.36	3313.60	3210.60	3063.71	2947.25	2795.09
45.0	3795.83	3725.02	3630.21	3548.28	3452.30	3327.06	3221.14	3077.17	2960.71
90.0	3682.29	3592.17	3478.64	3382.07	3282.00	3147.40	3034.45	2919.75	2800.36
135.0	3733.21	3657.71	3571.69	3463.42	3370.37	3267.37	3128.09	3006.36	2888.14
180.0	3689.90	3591.58	3502.04	3404.90	3276.15	3164.96	3054.35	2908.04	2788.66
225.0	3571.69	3458.15	3356.91	3253.91	3149.15	2999.34	2882.88	2761.15	2628.89
270.0	3689.32	3603.29	3511.41	3396.70	3289.61	3174.90	3063.71	2920.33	2796.85
315.0	3635.48	3531.31	3437.67	3333.50	3235.77	3098.24	2981.78	2832.55	2704.97
360.0	3700.44	3619.09	3535.99	3418.36	3313.60	3210.60	3063.71	2947.25	2795.09

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2669.85	2537.59	2398.31	2222.74	2080.53	1938.32	1795.53	1619.96	1481.26
45.0	2844.84	2720.77	2555.74	2419.38	2280.10	2144.32	1966.41	1825.38	1680.82
90.0	2642.93	2508.92	2371.98	2232.69	2055.95	1912.57	1772.71	1598.31	1455.51
135.0	2734.81	2600.21	2465.03	2297.07	2156.61	2012.65	1866.34	1694.28	1553.83
180.0	2617.18	2474.98	2343.88	2202.85	2012.65	1877.46	1736.42	1593.04	1427.42
225.0	2463.27	2318.13	2177.10	2003.28	1861.66	1689.02	1550.32	1310.96	1140.02
270.0	2676.29	2528.23	2348.57	2216.89	2078.19	1907.31	1757.49	1584.85	1452.00
315.0	2578.56	2401.82	2263.71	2124.43	1951.78	1811.92	1672.05	1535.69	1159.74
360.0	2669.85	2537.59	2398.31	2222.74	2080.53	1938.32	1795.53	1619.96	1481.26

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1135.16	1135.16	1032.81	898.09	771.44	625.84	520.50	428.68	331.00
45.0	1504.67	1366.56	1222.59	1048.78	913.01	785.43	638.54	533.78	441.90
90.0	1134.87	1134.87	996.58	864.44	711.69	600.67	499.02	410.77	313.91
135.0	1411.62	1268.24	1089.16	952.80	823.47	674.24	569.48	451.85	369.34
180.0	1282.87	1149.44	1013.08	838.10	716.96	582.36	479.36	393.33	307.89
225.0	1105.72	968.49	836.40	711.75	571.47	473.80	390.40	317.89	239.71
270.0	1315.06	1175.19	1005.48	870.87	743.29	626.25	496.91	408.55	333.64
315.0	1159.74	1088.69	950.70	815.92	664.64	553.51	435.64	358.74	291.03
360.0	1135.16	1135.16	1032.81	898.09	771.44	625.84	520.50	428.68	331.00

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	263.64	205.77	147.89	114.00	90.36	70.34	59.69	52.38	47.11
45.0	360.56	304.96	304.96	157.19	119.91	88.90	72.45	60.86	51.09
90.0	246.56	191.19	146.95	106.22	85.15	70.29	57.53	50.68	45.76
135.0	296.77	296.77	163.92	126.12	98.49	79.42	64.02	55.60	49.51
180.0	307.89	229.23	140.81	102.41	82.34	67.89	58.17	49.86	45.47
225.0	187.39	136.59	106.86	85.33	67.01	57.12	50.33	44.48	41.26
270.0	299.69	299.69	148.53	107.92	85.44	69.76	56.88	50.21	45.53
315.0	216.18	167.55	129.45	95.63	77.19	64.49	55.60	48.16	44.07
360.0	263.64	205.77	147.89	114.00	90.36	70.34	59.69	52.38	47.11

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	42.49	39.74	37.57	35.82	34.06	32.83	31.49	30.55	29.67
45.0	45.88	41.32	38.74	36.58	34.82	33.12	31.95	30.90	30.02
90.0	41.43	38.74	36.64	34.59	33.24	32.01	30.96	29.79	29.03
135.0	45.18	41.32	38.86	36.58	35.00	33.65	32.19	31.19	30.31
180.0	42.02	39.62	37.10	35.52	33.88	32.71	31.66	30.49	29.61
225.0	38.74	36.75	34.70	33.42	32.30	31.25	30.14	29.32	28.50
270.0	41.20	38.68	36.58	34.94	33.18	32.07	31.02	30.08	28.97
315.0	41.08	38.68	36.34	34.76	33.24	32.13	31.08	29.96	29.14
360.0	42.49	39.74	37.57	35.82	34.06	32.83	31.49	30.55	29.67

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	28.68	27.92	27.21	26.45	25.81	24.99	24.35	23.70	22.94
45.0	28.97	28.21	27.51	26.74	25.87	25.22	24.46	23.88	23.17
90.0	28.21	27.45	26.51	25.81	24.99	24.35	23.76	23.00	22.47
135.0	29.50	28.44	27.74	27.04	26.16	25.52	24.76	24.11	23.53
180.0	28.79	27.97	27.10	26.34	25.63	24.81	24.23	23.64	22.82
225.0	27.45	26.63	25.69	25.05	24.40	23.76	23.00	22.36	21.77
270.0	28.15	27.39	26.39	25.69	24.87	24.17	23.53	22.94	22.18
315.0	28.38	27.45	26.69	25.98	25.34	24.70	23.82	23.17	22.65
360.0	28.68	27.92	27.21	26.45	25.81	24.99	24.35	23.70	22.94

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.36	21.71	21.01	20.42	19.72	19.20	18.73	18.32	18.49
45.0	22.47	21.89	21.36	20.66	20.07	19.55	18.96	18.38	17.91
90.0	21.89	21.19	20.60	20.01	19.49	18.79	18.32	17.91	17.50
135.0	22.94	22.30	21.59	21.01	20.37	19.90	19.31	18.90	18.49
180.0	22.24	21.65	20.95	20.31	19.72	19.25	19.37	19.84	20.37
225.0	21.19	20.42	19.84	19.25	18.67	18.08	17.62	17.03	16.62
270.0	21.59	21.01	20.42	19.66	19.14	18.61	18.08	17.56	17.09
315.0	21.83	21.24	20.66	19.96	19.37	18.73	18.26	17.85	17.44
360.0	22.36	21.71	21.01	20.42	19.72	19.20	18.73	18.32	18.49

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.79	18.73	18.38	17.79	17.15	16.39	15.68	14.92	14.34
45.0	17.44	16.97	16.39	16.04	15.68	15.33	15.04	14.57	14.28
90.0	16.91	16.50	16.21	16.15	15.98	15.68	15.39	14.98	14.46
135.0	18.14	17.91	17.79	17.79	17.79	17.44	16.97	16.44	15.80
180.0	20.89	20.83	20.60	20.13	19.25	18.43	17.56	16.44	15.57
225.0	16.09	15.74	15.51	15.22	14.86	14.46	14.10	13.75	13.17
270.0	16.56	16.27	16.62	16.97	17.03	16.91	16.68	16.15	15.27
315.0	16.97	16.97	17.38	17.73	17.79	17.44	17.09	16.15	15.51
360.0	18.79	18.73	18.38	17.79	17.15	16.39	15.68	14.92	14.34

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.75	13.34	12.58	11.88	10.89	10.36	9.95	9.77	9.60
45.0	13.87	13.40	12.99	12.58	11.70	10.89	10.24	9.95	9.77
90.0	13.40	12.87	12.52	11.65	10.83	10.18	9.95	9.77	9.60
135.0	14.92	13.75	13.17	12.35	11.35	10.42	10.07	9.83	9.71
180.0	13.93	13.05	12.35	11.47	10.83	10.07	9.83	9.71	9.54
225.0	12.76	12.17	11.41	10.65	10.07	9.83	9.66	9.54	9.54
270.0	14.40	12.82	12.17	11.29	10.59	10.07	9.89	9.71	9.60
315.0	14.10	12.82	12.00	11.12	10.42	10.01	9.83	9.66	9.54
360.0	13.75	13.34	12.58	11.88	10.89	10.36	9.95	9.77	9.60

Intensity data(cd)

C/γ(°)	90.0
0.0	9.54
45.0	9.60
90.0	9.60
135.0	9.60
180.0	9.54
225.0	9.54
270.0	9.54
315.0	9.60
360.0	9.54