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: 3-2835-L
Luminaire: 92.70.411.00
Report No: 2024417-B013
Ballast type: AC

Test No: 2024417-C013	Voltage(V): 33.780
LampCAT: NICHIA NFCWJ108B-V3	Current(A): 0.577
Lamp flux(lm): 2629.0	Power (W): 19.491
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2235.01, Efficiency(%): 85.01% , Luminous Efficacy(lm/W): 114.67
Central intensity(cd): 3925.602, Maximum intensity(cd): 3939.939
Angle of maximum intensity: C=0.0 γ=3.0
Beam Angle(50%Imax): [C0/180]Total=44.4
[C90/270]Total=44.4
Field angle(10%Imax): [C0/180]Total=67.4
[C90/270]Total=67.4
Maximum s/h(1/2): C0_180=0.73 C90_270=0.73
Maximum s/h(1/4): C0_180=0.68 C90_270=0.68
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.01%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.667%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3925.602	0.000	0	0.00%	0.00%
1.0	3930.649	3.759	3.759	0.14%	0.17%
2.0	3935.770	11.291	15.05	0.43%	0.67%
3.0	3939.940	18.836	33.886	0.72%	1.52%
4.0	3938.696	26.372	60.258	1.00%	2.70%
5.0	3929.040	33.847	94.105	1.29%	4.21%
6.0	3904.972	41.170	135.275	1.57%	6.05%
7.0	3865.250	48.230	183.504	1.83%	8.21%
8.0	3813.019	54.952	238.456	2.09%	10.67%
9.0	3750.034	61.294	299.751	2.33%	13.41%
10.0	3680.392	67.243	366.993	2.56%	16.42%
11.0	3597.363	72.720	439.713	2.77%	19.67%
12.0	3506.580	77.656	517.369	2.95%	23.15%
13.0	3400.216	81.966	599.335	3.12%	26.82%
14.0	3278.635	85.489	684.824	3.25%	30.64%
15.0	3152.666	88.292	773.116	3.36%	34.59%
16.0	3006.067	90.243	863.359	3.43%	38.63%
17.0	2850.689	91.205	954.564	3.47%	42.71%
18.0	2684.120	91.257	1045.821	3.47%	46.79%
19.0	2524.061	90.612	1136.433	3.45%	50.85%
20.0	2353.687	89.276	1225.709	3.40%	54.84%
21.0	2184.557	87.143	1312.852	3.31%	58.74%
22.0	2006.868	84.228	1397.081	3.20%	62.51%
23.0	1836.421	80.643	1477.724	3.07%	66.12%
24.0	1674.241	76.756	1554.479	2.92%	69.55%
25.0	1523.033	72.699	1627.178	2.77%	72.80%
26.0	1294.320	66.504	1693.682	2.53%	75.78%
27.0	1230.677	61.775	1755.457	2.35%	78.54%
28.0	1119.923	59.512	1814.969	2.26%	81.21%
29.0	984.444	55.056	1870.025	2.09%	83.67%
30.0	849.461	49.515	1919.54	1.88%	85.89%
31.0	718.503	43.634	1963.174	1.66%	87.84%
32.0	597.654	37.706	2000.881	1.43%	89.52%
33.0	473.476	31.556	2032.437	1.20%	90.94%
34.0	355.795	25.096	2057.533	0.95%	92.06%
35.0	260.462	19.139	2076.672	0.73%	92.92%
36.0	221.925	15.359	2092.031	0.58%	93.60%
37.0	125.619	11.335	2103.366	0.43%	94.11%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	77.425	6.777	2110.143	0.26%	94.41%
39.0	67.030	4.931	2115.074	0.19%	94.63%
40.0	60.798	4.458	2119.532	0.17%	94.83%
41.0	56.628	4.181	2123.713	0.16%	95.02%
42.0	53.190	3.990	2127.703	0.15%	95.20%
43.0	50.541	3.843	2131.546	0.15%	95.37%
44.0	48.244	3.728	2135.274	0.14%	95.54%
45.0	46.072	3.625	2138.899	0.14%	95.70%
46.0	43.928	3.520	2142.419	0.13%	95.86%
47.0	42.012	3.418	2145.837	0.13%	96.01%
48.0	40.256	3.326	2149.162	0.13%	96.16%
49.0	38.727	3.243	2152.406	0.12%	96.30%
50.0	37.345	3.172	2155.578	0.12%	96.45%
51.0	36.021	3.104	2158.682	0.12%	96.58%
52.0	34.726	3.036	2161.717	0.12%	96.72%
53.0	33.292	2.959	2164.676	0.11%	96.85%
54.0	31.873	2.872	2167.548	0.11%	96.98%
55.0	30.307	2.776	2170.324	0.11%	97.11%
56.0	28.866	2.674	2172.998	0.10%	97.23%
57.0	27.586	2.581	2175.579	0.10%	97.34%
58.0	26.503	2.501	2178.08	0.10%	97.45%
59.0	25.465	2.430	2180.51	0.09%	97.56%
60.0	24.462	2.359	2182.868	0.09%	97.67%
61.0	23.555	2.292	2185.16	0.09%	97.77%
62.0	22.846	2.236	2187.396	0.09%	97.87%
63.0	22.297	2.196	2189.591	0.08%	97.97%
64.0	21.646	2.156	2191.748	0.08%	98.06%
65.0	20.819	2.102	2193.849	0.08%	98.16%
66.0	19.751	2.024	2195.873	0.08%	98.25%
67.0	19.064	1.952	2197.825	0.07%	98.34%
68.0	18.793	1.918	2199.743	0.07%	98.42%
69.0	18.639	1.910	2201.652	0.07%	98.51%
70.0	18.537	1.909	2203.562	0.07%	98.59%
71.0	18.457	1.912	2205.474	0.07%	98.68%
72.0	18.332	1.913	2207.387	0.07%	98.76%
73.0	18.230	1.912	2209.299	0.07%	98.85%
74.0	18.164	1.913	2211.212	0.07%	98.94%
75.0	18.018	1.912	2213.124	0.07%	99.02%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.762	1.899	2215.023	0.07%	99.11%
77.0	17.396	1.874	2216.897	0.07%	99.19%
78.0	16.986	1.840	2218.738	0.07%	99.27%
79.0	16.423	1.795	2220.533	0.07%	99.35%
80.0	15.669	1.730	2222.263	0.07%	99.43%
81.0	14.762	1.646	2223.909	0.06%	99.50%
82.0	13.848	1.551	2225.46	0.06%	99.57%
83.0	12.999	1.459	2226.92	0.06%	99.64%
84.0	12.048	1.365	2228.284	0.05%	99.70%
85.0	11.061	1.261	2229.545	0.05%	99.76%
86.0	10.366	1.171	2230.717	0.04%	99.81%
87.0	9.985	1.114	2231.83	0.04%	99.86%
88.0	9.744	1.081	2232.911	0.04%	99.91%
89.0	9.532	1.057	2233.968	0.04%	99.95%
90.0	9.503	1.044	2235.011	0.04%	100.00%

Zonal flux distribution table

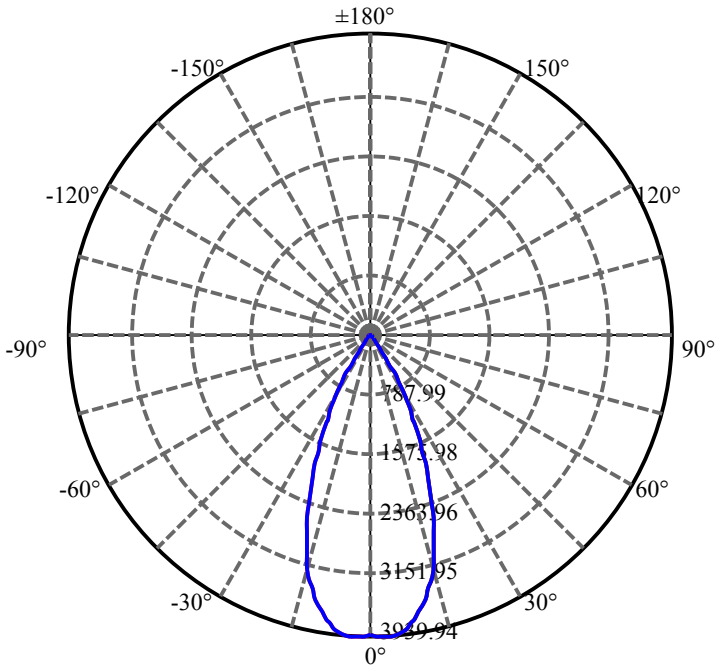
ZONAL LUMEN SUMMARY

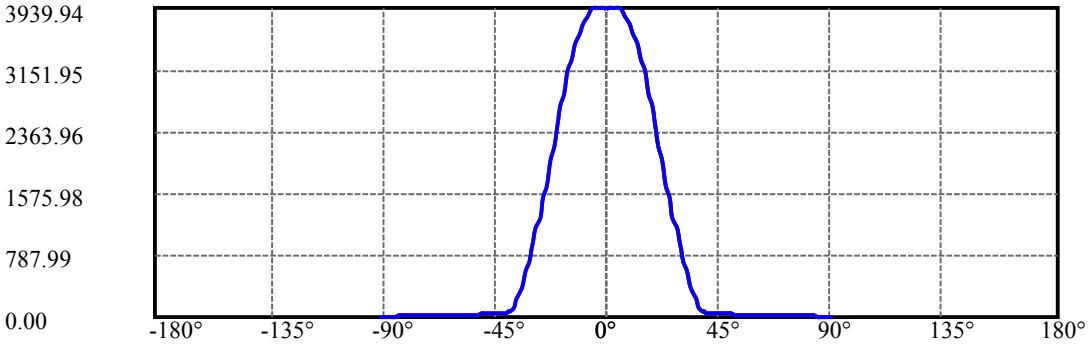
Zone	Lumens	%Lamp	%Fixt
0-30	1919.54	73.01%	85.89%
0-40	2119.53	80.62%	94.83%
0-60	2182.87	83.03%	97.67%
0-90	2233.97	84.97%	99.95%
0-120	2233.97	84.97%	99.95%
0-180	2235.01	85.01%	100.00%
60-90	51.10	1.94%	2.29%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.55	1788.01	68.01%	80.00%

ZONAL LUMEN SUMMARY

0-10	366.99
10-20	858.72
20-30	693.83
30-40	199.99
40-50	36.05
50-60	27.29
60-70	20.69
70-80	18.70
80-90	11.70
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):

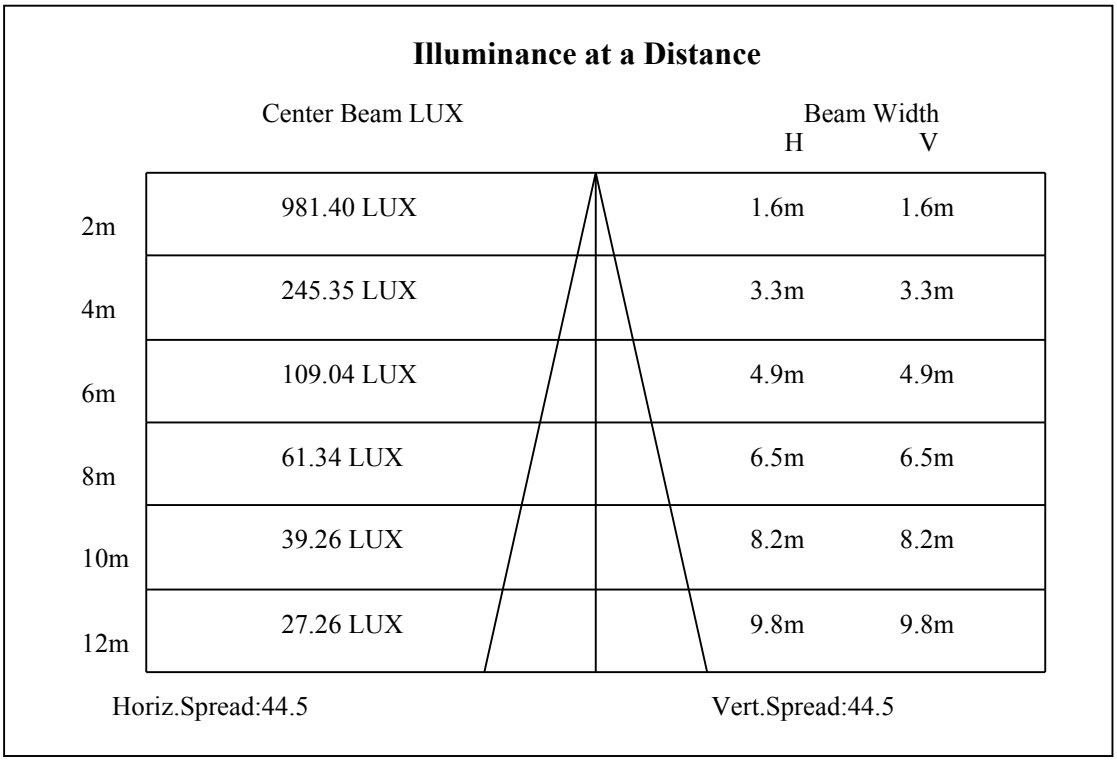
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:36.7 Right:30.7
:C90/270Left:36.7 Right:30.7

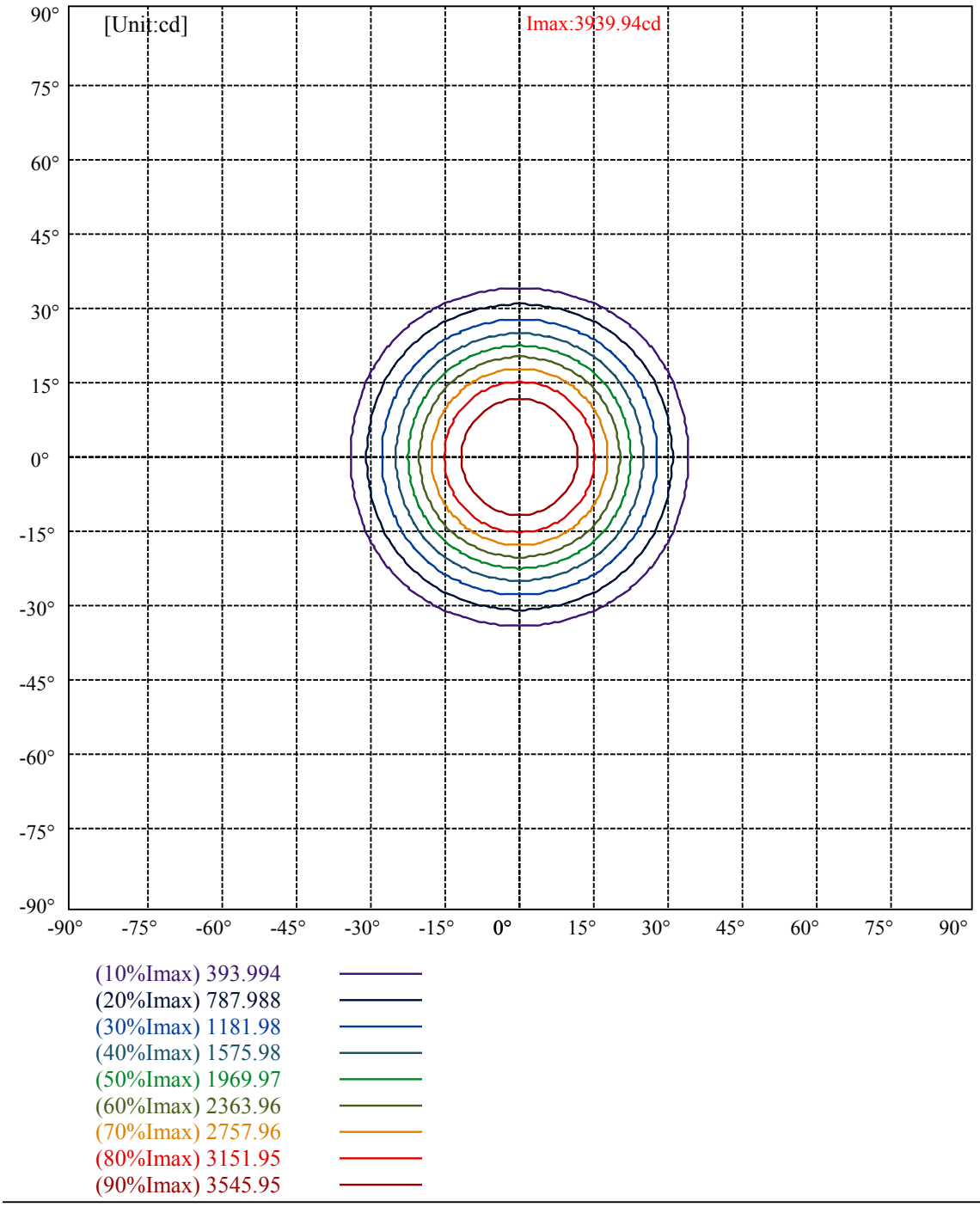
Beam Angle(50%Imax):C0/180Left:25.2 Right:19.2
:C90/270Left:25.2 Right:19.2

Lux distance Curve



Equipment: GMS1980 Date: 2024/4/17 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

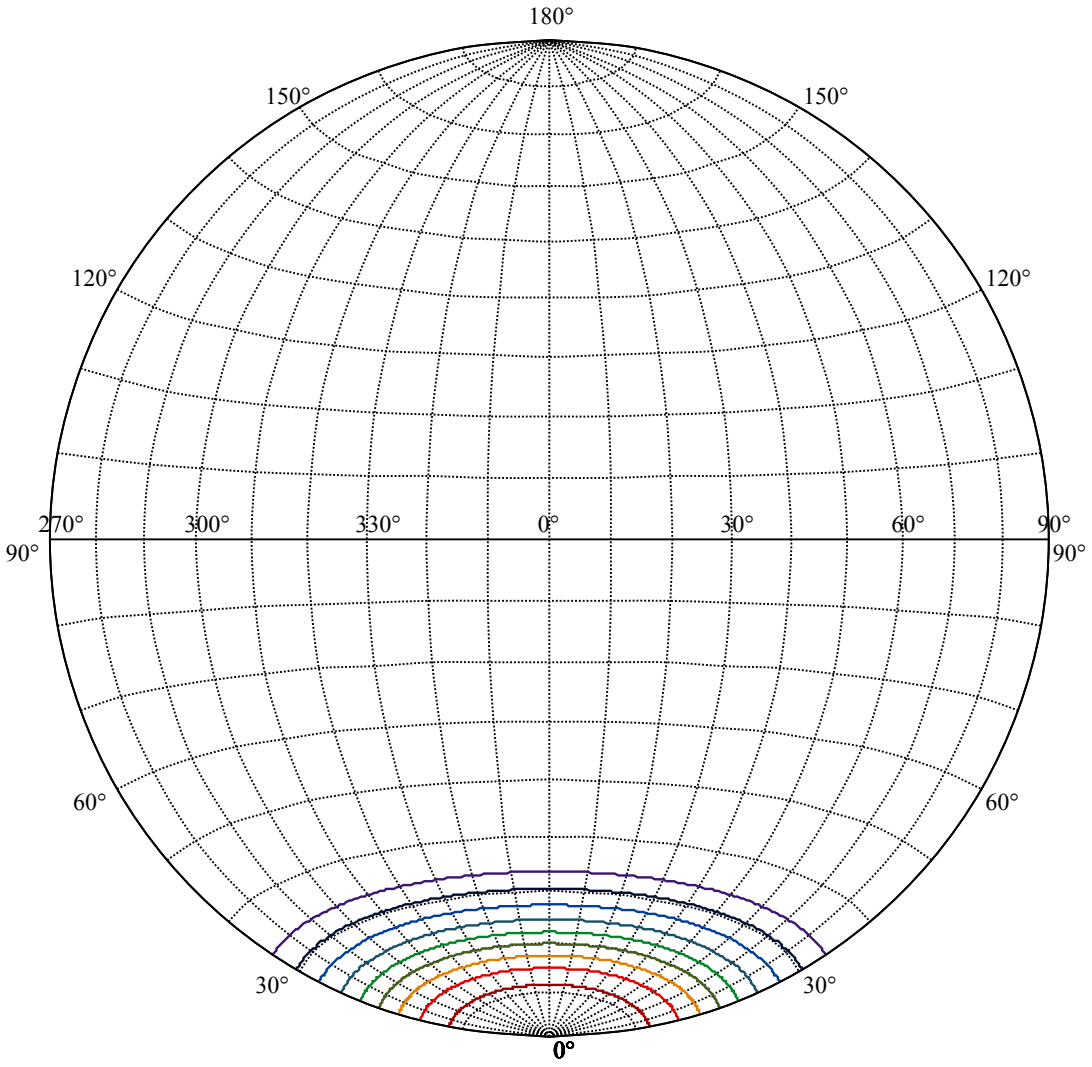


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/17
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



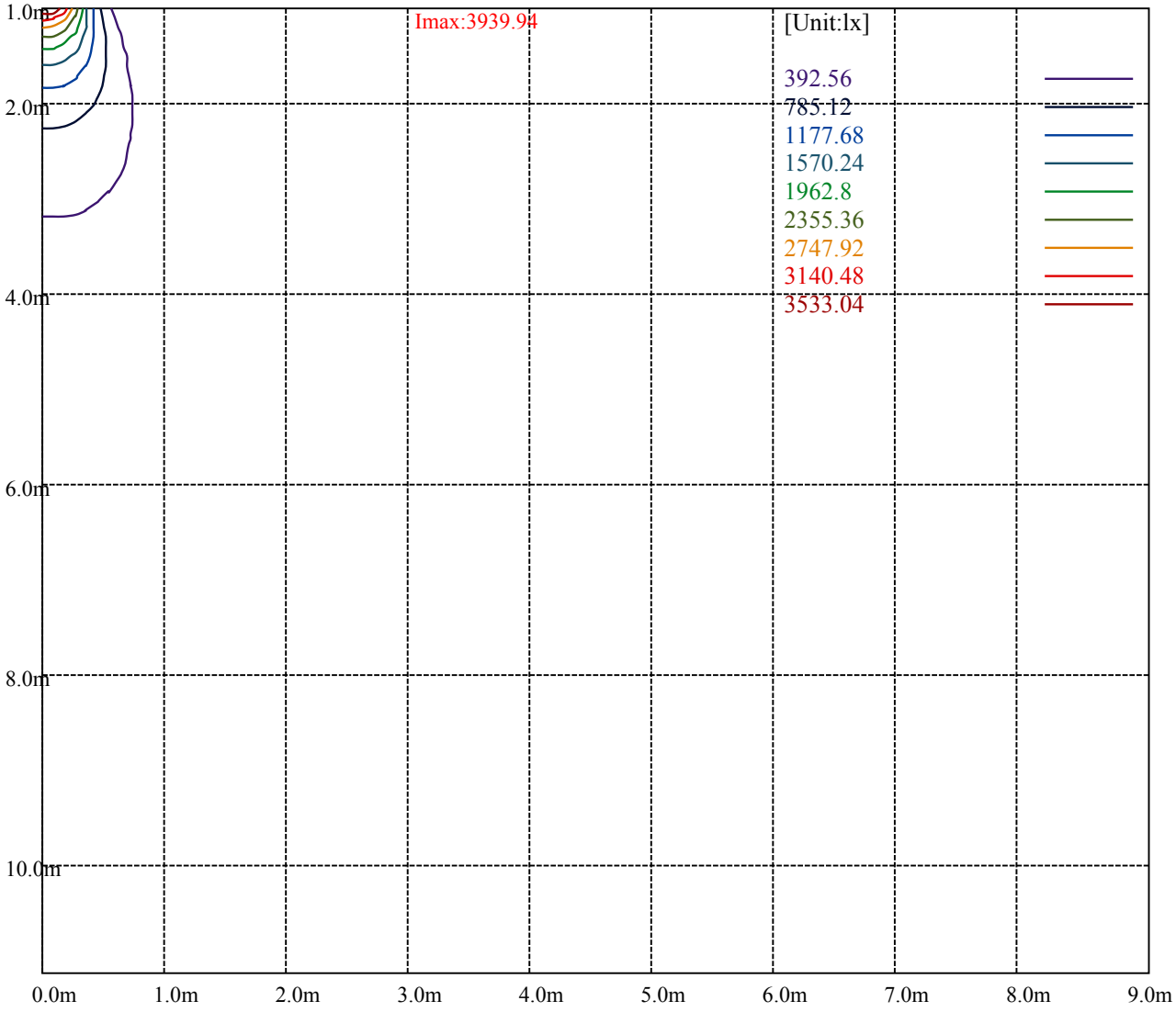
House [Unit:cd] Road

Imax:3939.94

(10%Imax) 393.994
(20%Imax) 787.988
(30%Imax) 1181.98
(40%Imax) 1575.98
(50%Imax) 1969.97
(60%Imax) 2363.96
(70%Imax) 2757.96
(80%Imax) 3151.95
(90%Imax) 3545.95

Equipment: GMS1980	Date: 2024/4/17	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/17
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

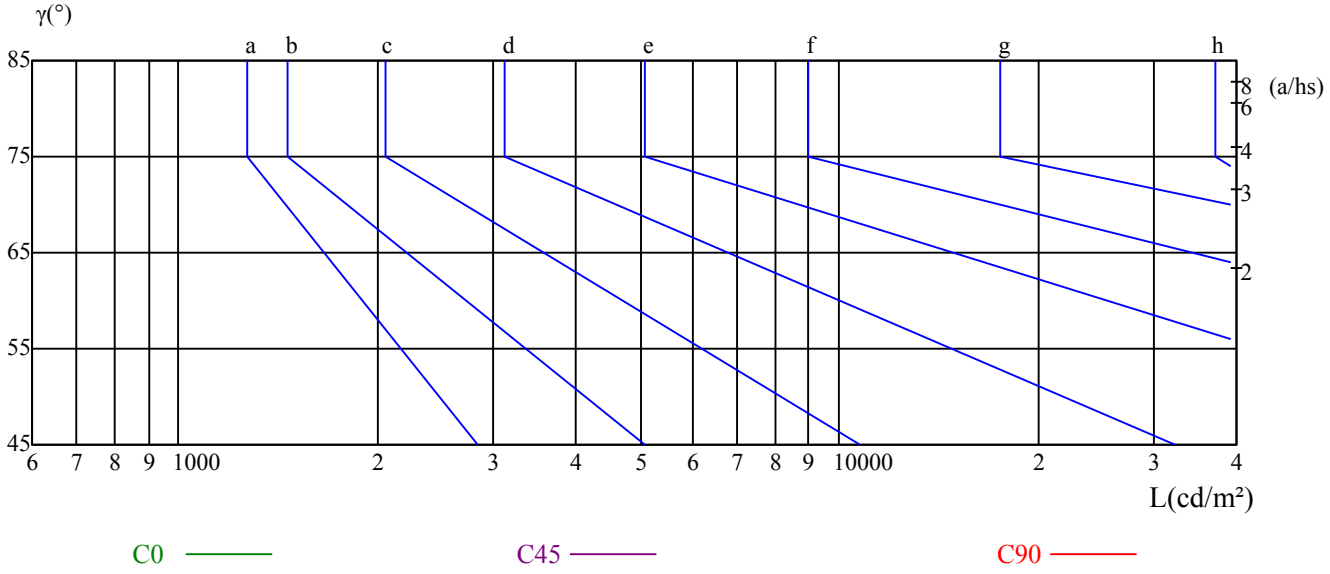
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

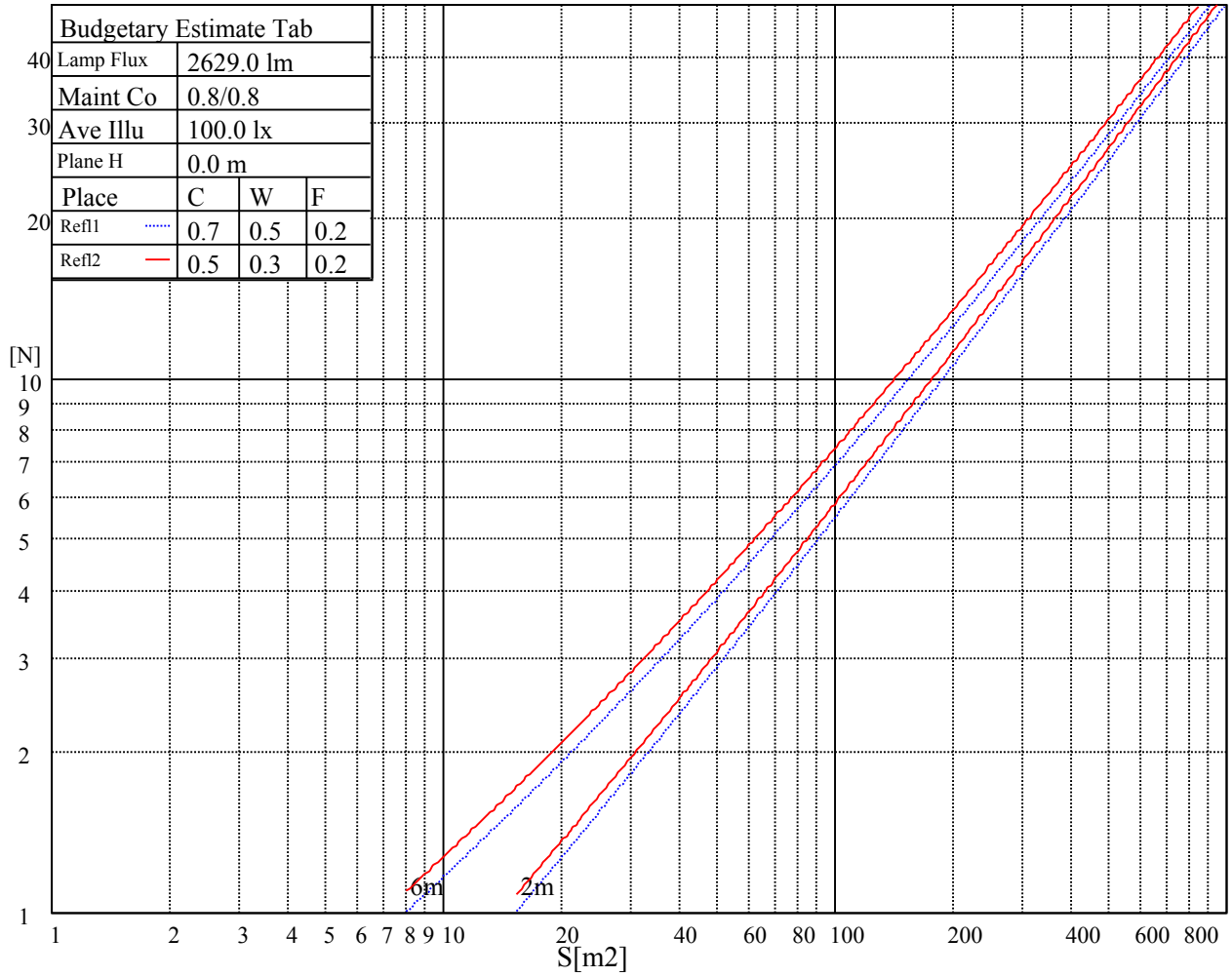
Luminance Limitting Curve



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 X Y	Viewed crosswise					Viewed endwise				
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
2H 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
2H 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
2H 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
2H 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
2H 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
4H 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 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
4H 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
4H 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
4H 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
8H 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 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
8H 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
12H 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
12H 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

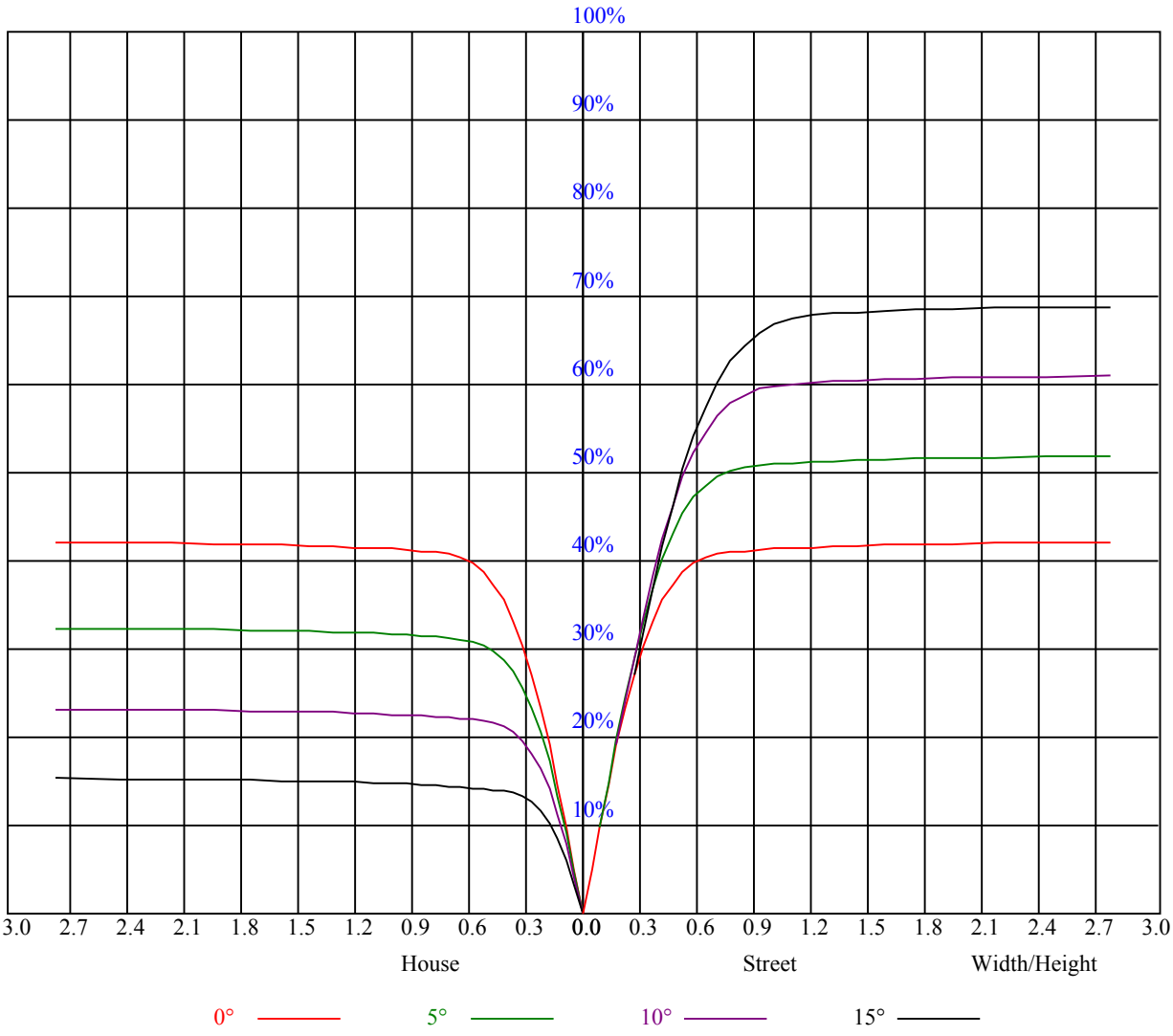


Equipment: GMS1980 Date: 2024/4/17 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

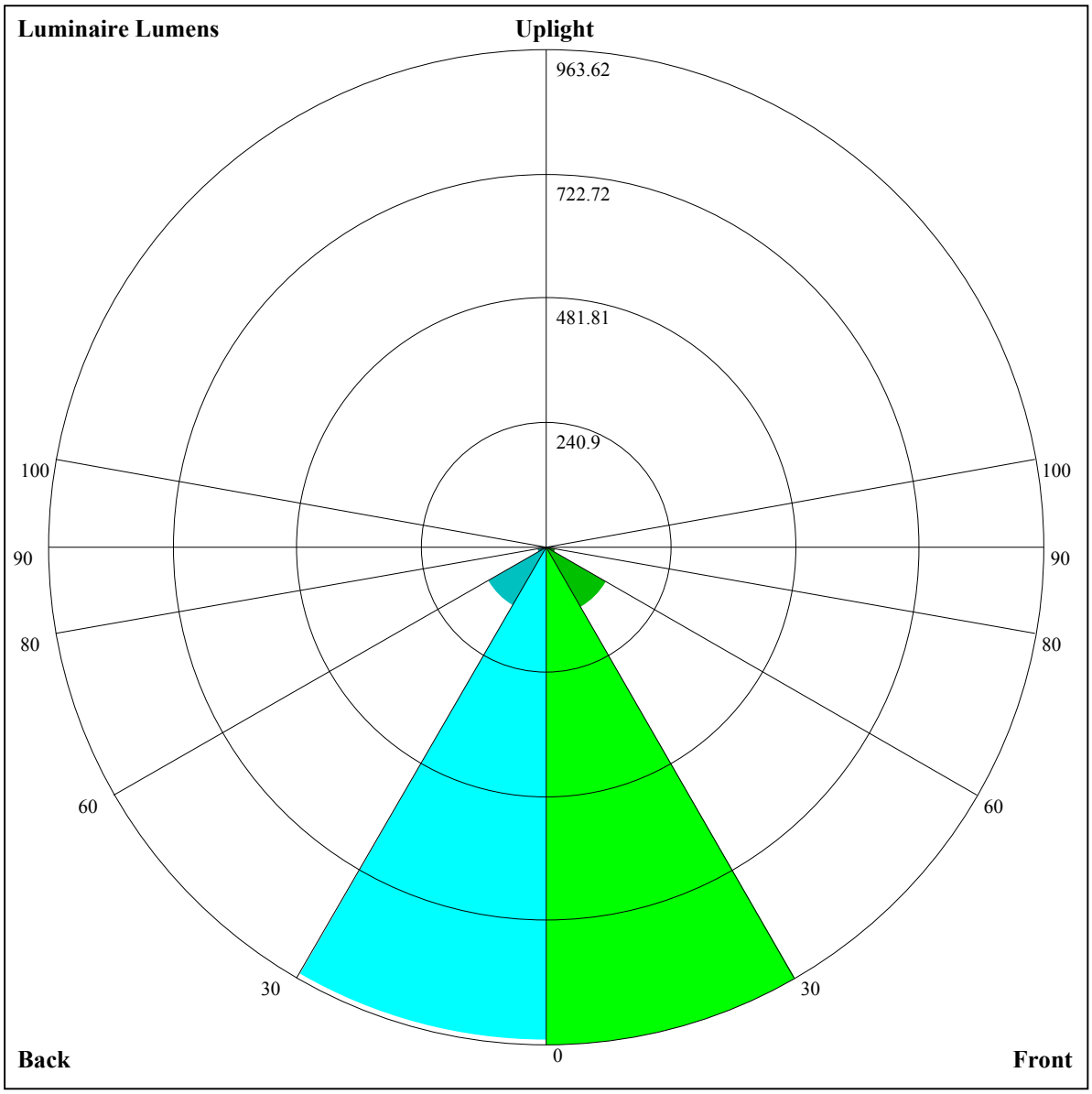
Utilization factor table for indoor luminaire

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	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.94	0.92	0.91	0.93	0.91	0.89	0.89	0.88	0.86	0.86	0.85	0.84	0.83	0.82	0.81	0.80
2	0.89	0.85	0.83	0.87	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.77	0.75
3	0.83	0.80	0.76	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.73	0.76	0.74	0.72	0.71
4	0.79	0.75	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.74	0.72	0.69	0.73	0.71	0.69	0.67
5	0.75	0.70	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
6	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.61
7	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.58
8	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.62	0.58	0.56	0.55
9	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.53
10	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.51	0.57	0.54	0.51	0.50

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/17	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=963.62,FM=133.44,FH=19.73,FVH=6.44
BL=956.75,BM=130.58,BH=19.83,BVH=6.4
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	3931.60	3929.84	3941.55	3942.13	3934.53	3921.65	3895.90	3847.91	3795.83
45.0	3920.48	3926.33	3928.67	3932.77	3939.21	3939.21	3928.09	3907.02	3859.03
90.0	3927.50	3934.53	3936.87	3945.06	3935.70	3924.58	3891.80	3843.82	3795.83
135.0	3922.82	3929.26	3932.19	3938.04	3948.57	3945.65	3931.01	3897.66	3846.16
180.0	3931.60	3929.26	3935.11	3942.13	3945.06	3939.79	3925.75	3884.20	3831.53
225.0	3920.48	3940.38	3938.62	3942.13	3932.19	3909.36	3877.17	3824.50	3770.08
270.0	3927.50	3926.92	3933.36	3943.30	3942.13	3933.94	3914.04	3877.76	3837.38
315.0	3922.82	3928.67	3939.79	3933.94	3932.19	3918.14	3876.00	3839.13	3768.32
360.0	3931.60	3929.84	3941.55	3942.13	3934.53	3921.65	3895.90	3847.91	3795.83

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3736.13	3663.57	3569.93	3486.83	3371.54	3262.69	3143.89	3008.70	2827.87
45.0	3806.36	3743.74	3678.20	3583.39	3500.87	3407.24	3298.39	3146.81	3006.36
90.0	3736.13	3650.69	3572.27	3476.30	3369.78	3225.82	3098.82	2949.59	2803.29
135.0	3781.20	3726.77	3651.86	3550.03	3454.64	3348.13	3218.80	3055.52	2911.55
180.0	3760.13	3686.98	3611.48	3524.28	3401.39	3287.85	3169.05	3044.98	2856.54
225.0	3686.39	3603.87	3515.51	3423.62	3287.85	3168.47	2999.34	2861.81	2703.80
270.0	3787.63	3727.36	3634.89	3550.62	3458.74	3320.63	3207.68	3036.79	2898.09
315.0	3706.29	3640.16	3544.77	3457.57	3356.91	3208.26	3085.36	2944.33	2798.02
360.0	3736.13	3663.57	3569.93	3486.83	3371.54	3262.69	3143.89	3008.70	2827.87

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2676.29	2519.45	2366.12	2162.46	1999.19	1832.98	1641.61	1502.92	1155.12
45.0	2861.22	2676.29	2512.43	2355.00	2157.78	1999.19	1835.32	1639.86	1498.82
90.0	2614.26	2455.08	2262.54	2096.92	1931.89	1731.15	1583.68	1448.49	1166.82
135.0	2762.32	2612.50	2411.19	2258.44	2102.77	1905.55	1753.39	1607.67	1435.62
180.0	2705.55	2545.20	2392.46	2196.99	2025.52	1836.49	1684.34	1538.03	1374.17
225.0	2501.31	2347.40	2191.14	2032.54	1834.15	1687.85	1547.98	1411.62	1142.30
270.0	2748.28	2592.02	2412.36	2253.17	2078.19	1927.79	1723.55	1581.34	1436.20
315.0	2603.72	2444.54	2281.27	2120.91	1925.45	1770.36	1624.06	1454.34	1145.52
360.0	2676.29	2519.45	2366.12	2162.46	1999.19	1832.98	1641.61	1502.92	1155.12

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1155.12	1092.56	968.49	808.96	690.86	580.25	469.76	339.25	244.62
45.0	1365.39	1243.08	1092.67	973.87	843.37	721.64	578.26	464.73	331.88
90.0	1166.82	1055.63	932.97	810.01	658.90	543.62	431.19	294.84	202.49
135.0	1307.45	1190.99	1035.91	912.42	793.62	669.56	525.59	413.23	306.72
180.0	1250.68	1138.91	1016.01	855.07	727.49	610.45	498.08	364.07	316.08
225.0	1142.30	1020.57	861.98	735.80	622.56	475.38	367.64	272.54	173.46
270.0	1312.13	1162.90	1042.34	897.21	761.44	649.07	500.43	387.48	309.64
315.0	1145.52	1054.75	925.18	802.34	649.78	531.27	416.86	310.23	198.80
360.0	1155.12	1092.56	968.49	808.96	690.86	580.25	469.76	339.25	244.62

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	161.70	93.11	74.38	66.72	61.21	56.30	53.14	50.80	48.16
45.0	307.89	307.89	88.78	72.10	64.43	59.40	54.72	51.97	49.80
90.0	128.57	81.11	69.52	61.45	57.41	53.96	51.32	49.22	46.82
135.0	306.72	122.08	83.86	70.46	62.09	57.88	54.31	51.21	49.22
180.0	316.08	119.91	78.77	68.94	61.74	57.59	54.07	50.91	48.69
225.0	115.70	84.21	72.33	63.50	58.82	55.01	52.09	49.10	46.76
270.0	309.64	109.73	79.82	69.70	61.86	57.76	54.13	51.50	49.39
315.0	129.10	86.91	71.92	63.38	58.82	55.13	51.73	49.63	47.11
360.0	161.70	93.11	74.38	66.72	61.21	56.30	53.14	50.80	48.16

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	46.06	43.66	41.79	40.15	38.68	37.04	35.87	34.65	33.36
45.0	47.75	45.30	43.42	41.55	39.62	38.16	37.04	35.58	34.35
90.0	44.89	43.07	41.32	39.39	38.10	36.99	35.52	34.35	32.71
135.0	46.64	44.71	42.90	41.08	39.21	37.86	36.69	35.58	34.12
180.0	46.53	44.07	42.25	40.56	39.03	37.75	36.17	34.88	33.47
225.0	44.71	42.31	40.61	38.74	37.45	36.23	34.88	33.18	31.78
270.0	46.82	44.89	42.60	40.91	39.33	37.69	36.52	35.35	33.71
315.0	45.18	43.42	41.20	39.68	38.39	37.04	35.46	34.24	32.83
360.0	46.06	43.66	41.79	40.15	38.68	37.04	35.87	34.65	33.36

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	32.01	30.14	28.79	27.39	26.39	25.52	24.40	23.53	22.82
45.0	33.07	31.43	30.08	28.73	27.39	26.39	25.46	24.46	23.47
90.0	31.31	29.90	28.32	27.27	26.34	25.46	24.35	23.58	23.06
135.0	32.77	31.31	29.55	28.32	27.27	25.98	25.11	24.17	23.29
180.0	31.72	30.26	28.97	27.51	26.45	25.16	24.23	23.41	22.77
225.0	30.31	28.91	27.39	26.39	25.34	24.17	23.23	22.36	21.83
270.0	32.30	30.84	29.44	27.80	26.74	25.81	24.93	23.70	22.88
315.0	31.49	29.67	28.38	27.27	26.10	25.22	23.99	23.23	22.65
360.0	32.01	30.14	28.79	27.39	26.39	25.52	24.40	23.53	22.82

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.18	21.65	20.83	19.72	18.90	18.73	18.55	18.49	18.38
45.0	22.82	22.24	21.71	20.54	19.43	18.67	18.43	18.32	18.20
90.0	22.59	21.83	20.83	19.78	19.25	19.08	18.90	18.79	18.67
135.0	22.77	22.24	21.59	20.13	19.31	19.02	18.84	18.67	18.67
180.0	22.24	21.65	20.83	19.78	19.02	18.79	18.67	18.55	18.49
225.0	21.36	20.60	19.37	18.79	18.67	18.55	18.49	18.43	18.32
270.0	22.24	21.59	21.01	19.84	18.96	18.73	18.61	18.49	18.38
315.0	22.18	21.36	20.37	19.43	18.96	18.79	18.61	18.55	18.55
360.0	22.18	21.65	20.83	19.72	18.90	18.73	18.55	18.49	18.38

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.26	18.14	17.85	17.50	16.97	16.50	16.09	15.57	15.10
45.0	18.08	17.91	17.73	17.38	17.09	16.74	16.39	15.86	15.33
90.0	18.49	18.67	19.31	19.84	20.07	20.13	19.72	18.55	16.74
135.0	18.55	18.49	18.49	18.90	19.08	19.02	18.96	18.84	18.08
180.0	18.38	18.20	18.08	17.85	17.38	16.91	16.44	15.80	15.22
225.0	18.20	17.97	17.79	17.32	16.91	16.44	15.80	15.27	14.63
270.0	18.32	18.20	18.08	17.79	17.44	16.91	16.44	15.98	15.22
315.0	18.38	18.26	17.97	17.56	17.15	16.50	16.04	15.51	15.04
360.0	18.26	18.14	17.85	17.50	16.97	16.50	16.09	15.57	15.10

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.63	13.99	13.34	11.82	10.89	10.36	10.07	9.77	9.54
45.0	14.69	14.22	13.69	13.05	11.88	11.18	10.18	9.95	9.66
90.0	14.51	13.58	12.99	11.94	10.83	10.18	9.89	9.66	9.48
135.0	16.91	14.75	13.46	12.17	11.00	10.36	10.07	9.83	9.54
180.0	14.63	13.75	12.76	11.59	10.59	10.24	9.95	9.71	9.54
225.0	13.75	12.99	11.88	10.94	10.30	10.07	9.77	9.54	9.48
270.0	14.63	13.93	13.23	13.75	12.47	10.36	10.07	9.83	9.54
315.0	14.34	13.58	12.64	11.12	10.53	10.18	9.89	9.66	9.48
360.0	14.63	13.99	13.34	11.82	10.89	10.36	10.07	9.77	9.54

Intensity data(cd)

C/γ(°)	90.0
0.0	9.54
45.0	9.48
90.0	9.54
135.0	9.48
180.0	9.48
225.0	9.54
270.0	9.48
315.0	9.48
360.0	9.54