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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:
LumCAT: 3-2805-L
Luminaire: 92.70.411.00
Report No: 2024417-B001
Ballast type: AC

Test No: 2024417-C001	Voltage(V): 33.830
LampCAT: NICHIA NFCWJ108B-V3	Current(A): 0.577
Lamp flux(lm): 2629.0	Power (W): 19.519
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2271.25, Efficiency(%): 86.39% , Luminous Efficacy(lm/W): 116.36
Central intensity(cd): 9901.042, Maximum intensity(cd): 9901.042
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=17.8
[C90/270]Total=17.8
Field angle(10%Imax): [C0/180]Total=53.4
[C90/270]Total=53.4
Maximum s/h(1/2): C0_180=0.30 C90_270=0.30
Maximum s/h(1/4): C0_180=0.38 C90_270=0.38
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 86.39%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.528%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9901.041	0.000	0	0.00%	0.00%
1.0	9800.163	9.427	9.427	0.36%	0.42%
2.0	9487.287	27.683	37.11	1.05%	1.63%
3.0	9028.325	44.283	81.393	1.68%	3.58%
4.0	8403.304	58.349	139.742	2.22%	6.15%
5.0	7722.468	69.372	209.115	2.64%	9.21%
6.0	7011.420	77.431	286.545	2.95%	12.62%
7.0	6229.779	82.188	368.733	3.13%	16.23%
8.0	5520.925	84.098	452.831	3.20%	19.94%
9.0	4904.463	84.492	537.323	3.21%	23.66%
10.0	4414.484	84.333	621.656	3.21%	27.37%
11.0	3983.466	83.913	705.568	3.19%	31.07%
12.0	3626.625	83.189	788.758	3.16%	34.73%
13.0	3311.700	82.340	871.098	3.13%	38.35%
14.0	3037.303	81.267	952.365	3.09%	41.93%
15.0	2790.119	80.001	1032.366	3.04%	45.45%
16.0	2557.638	78.360	1110.726	2.98%	48.90%
17.0	2348.932	76.408	1187.134	2.91%	52.27%
18.0	2167.074	74.459	1261.593	2.83%	55.55%
19.0	2005.186	72.589	1334.182	2.76%	58.74%
20.0	1849.004	70.542	1404.725	2.68%	61.85%
21.0	1708.184	68.305	1473.03	2.60%	64.86%
22.0	1544.380	65.362	1538.391	2.49%	67.73%
23.0	1402.470	61.833	1600.224	2.35%	70.46%
24.0	1255.286	58.108	1658.332	2.21%	73.01%
25.0	1166.478	55.066	1713.398	2.09%	75.44%
26.0	1059.199	52.537	1765.935	2.00%	77.75%
27.0	966.133	49.550	1815.485	1.88%	79.93%
28.0	886.945	46.916	1862.402	1.78%	82.00%
29.0	800.610	44.151	1906.553	1.68%	83.94%
30.0	708.195	40.737	1947.29	1.55%	85.74%
31.0	611.370	36.722	1984.012	1.40%	87.35%
32.0	519.651	32.402	2016.414	1.23%	88.78%
33.0	423.718	27.792	2044.206	1.06%	90.00%
34.0	332.554	22.887	2067.093	0.87%	91.01%
35.0	263.322	18.506	2085.599	0.70%	91.83%
36.0	208.011	15.007	2100.606	0.57%	92.49%
37.0	152.210	11.748	2112.355	0.45%	93.00%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	101.910	8.482	2120.837	0.32%	93.38%
39.0	90.220	6.558	2127.395	0.25%	93.67%
40.0	83.336	6.053	2133.448	0.23%	93.93%
41.0	78.091	5.748	2139.196	0.22%	94.19%
42.0	73.219	5.497	2144.693	0.21%	94.43%
43.0	68.237	5.240	2149.933	0.20%	94.66%
44.0	63.533	4.973	2154.907	0.19%	94.88%
45.0	59.547	4.730	2159.637	0.18%	95.09%
46.0	56.123	4.524	2164.16	0.17%	95.28%
47.0	52.868	4.335	2168.495	0.16%	95.48%
48.0	49.920	4.155	2172.65	0.16%	95.66%
49.0	47.381	3.996	2176.646	0.15%	95.83%
50.0	45.201	3.860	2180.506	0.15%	96.00%
51.0	43.182	3.739	2184.246	0.14%	96.17%
52.0	41.617	3.639	2187.884	0.14%	96.33%
53.0	40.278	3.562	2191.447	0.14%	96.49%
54.0	39.283	3.507	2194.954	0.13%	96.64%
55.0	38.457	3.470	2198.424	0.13%	96.79%
56.0	37.798	3.446	2201.869	0.13%	96.95%
57.0	36.986	3.419	2205.289	0.13%	97.10%
58.0	35.889	3.370	2208.659	0.13%	97.24%
59.0	34.404	3.286	2211.945	0.12%	97.39%
60.0	32.656	3.168	2215.113	0.12%	97.53%
61.0	30.461	3.012	2218.125	0.11%	97.66%
62.0	28.252	2.829	2220.954	0.11%	97.79%
63.0	25.633	2.621	2223.575	0.10%	97.90%
64.0	23.599	2.416	2225.991	0.09%	98.01%
65.0	21.785	2.246	2228.237	0.09%	98.11%
66.0	20.161	2.093	2230.33	0.08%	98.20%
67.0	19.100	1.974	2232.304	0.08%	98.29%
68.0	18.442	1.902	2234.206	0.07%	98.37%
69.0	18.230	1.871	2236.076	0.07%	98.45%
70.0	18.354	1.879	2237.955	0.07%	98.53%
71.0	18.778	1.919	2239.875	0.07%	98.62%
72.0	19.334	1.982	2241.856	0.08%	98.71%
73.0	19.876	2.050	2243.907	0.08%	98.80%
74.0	20.263	2.110	2246.017	0.08%	98.89%
75.0	20.388	2.148	2248.165	0.08%	98.98%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	20.329	2.161	2250.326	0.08%	99.08%
77.0	20.000	2.150	2252.476	0.08%	99.17%
78.0	19.590	2.119	2254.596	0.08%	99.27%
79.0	18.771	2.061	2256.657	0.08%	99.36%
80.0	17.381	1.949	2258.606	0.07%	99.44%
81.0	15.326	1.769	2260.375	0.07%	99.52%
82.0	13.036	1.538	2261.913	0.06%	99.59%
83.0	11.792	1.350	2263.262	0.05%	99.65%
84.0	11.317	1.259	2264.521	0.05%	99.70%
85.0	10.878	1.211	2265.733	0.05%	99.76%
86.0	10.432	1.165	2266.897	0.04%	99.81%
87.0	10.081	1.123	2268.02	0.04%	99.86%
88.0	9.868	1.093	2269.113	0.04%	99.91%
89.0	9.766	1.076	2270.189	0.04%	99.95%
90.0	9.678	1.066	2271.255	0.04%	100.00%

Zonal flux distribution table

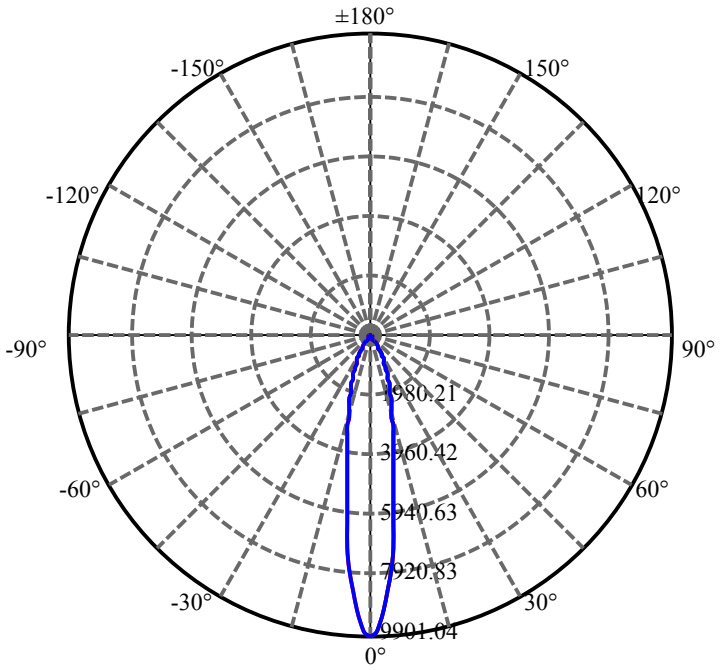
ZONAL LUMEN SUMMARY

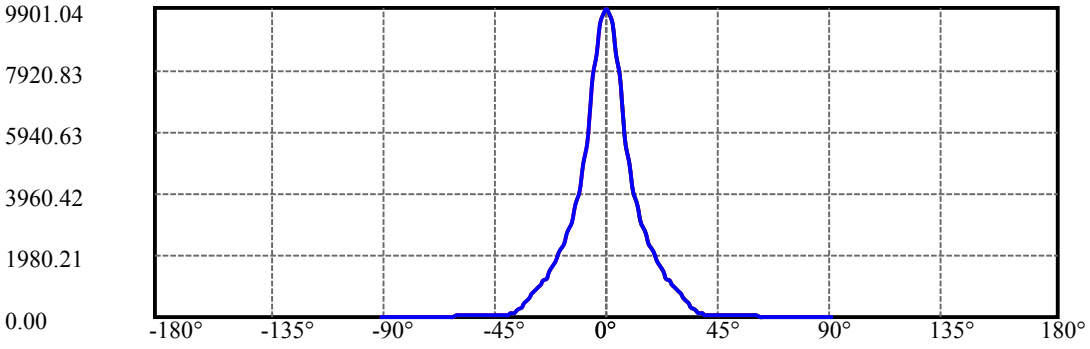
Zone	Lumens	%Lamp	%Fixt
0-30	1947.29	74.07%	85.74%
0-40	2133.45	81.15%	93.93%
0-60	2215.11	84.26%	97.53%
0-90	2270.19	86.35%	99.95%
0-120	2270.19	86.35%	99.95%
0-180	2271.25	86.39%	100.00%
60-90	55.08	2.09%	2.42%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.03	1817.00	69.11%	80.00%

ZONAL LUMEN SUMMARY

0-10	621.66
10-20	783.07
20-30	542.57
30-40	186.16
40-50	47.06
50-60	34.61
60-70	22.84
70-80	20.65
80-90	11.58
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):

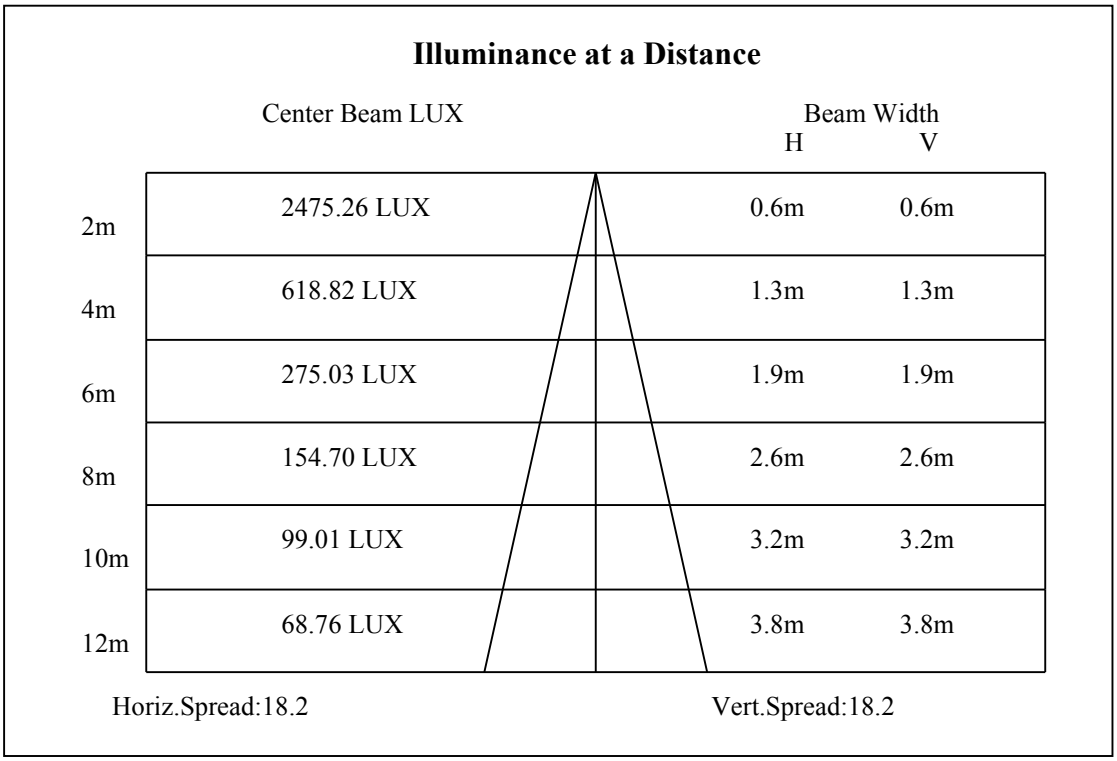
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:26.7 Right:26.7
:C90/270Left:26.7 Right:26.7

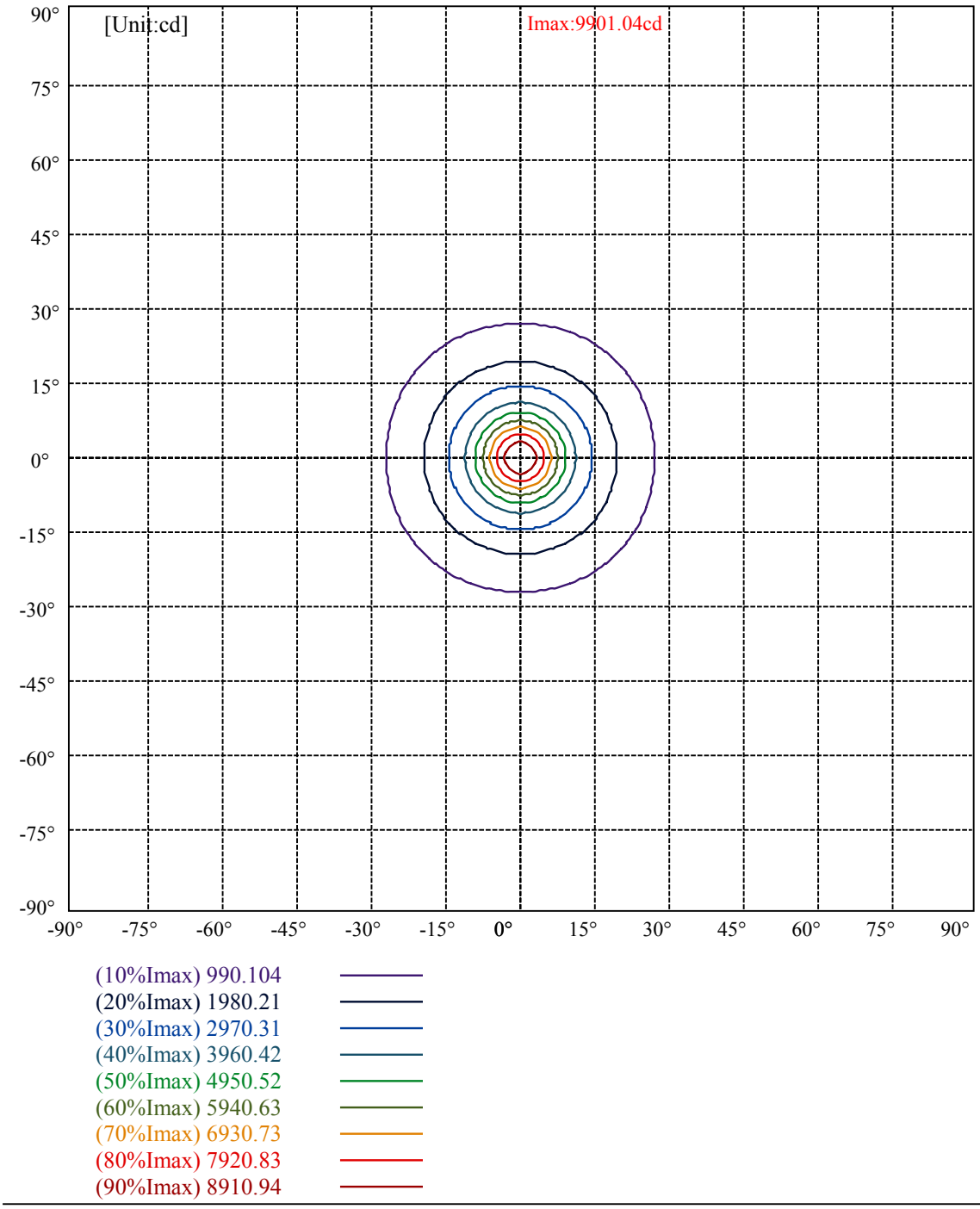
Beam Angle(50%Imax):C0/180Left:8.9 Right:8.9
:C90/270Left:8.9 Right:8.9

Lux distance Curve



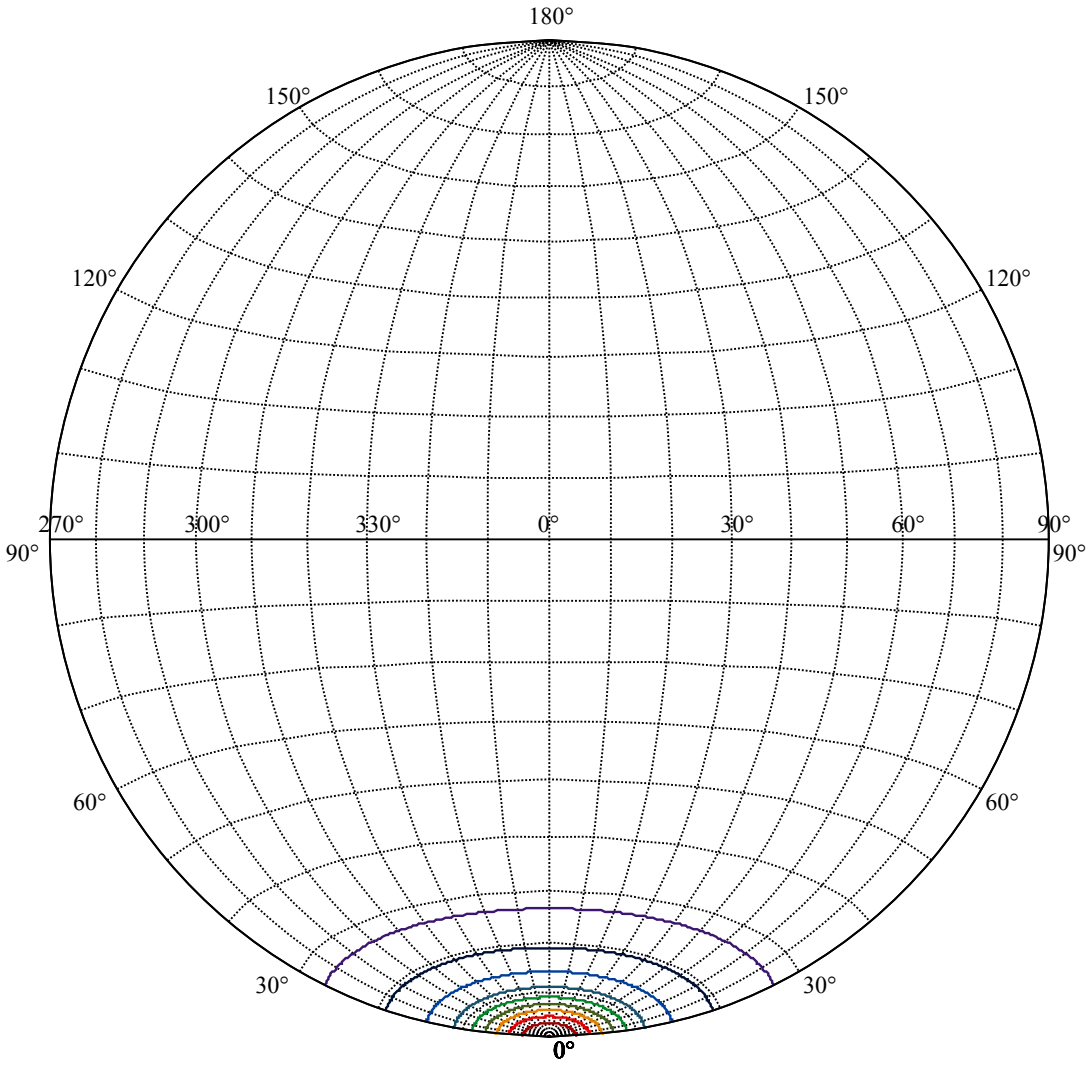
Equipment: GMS1980 Date: 2024/4/17 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)



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

ISO candela diagram on circular web



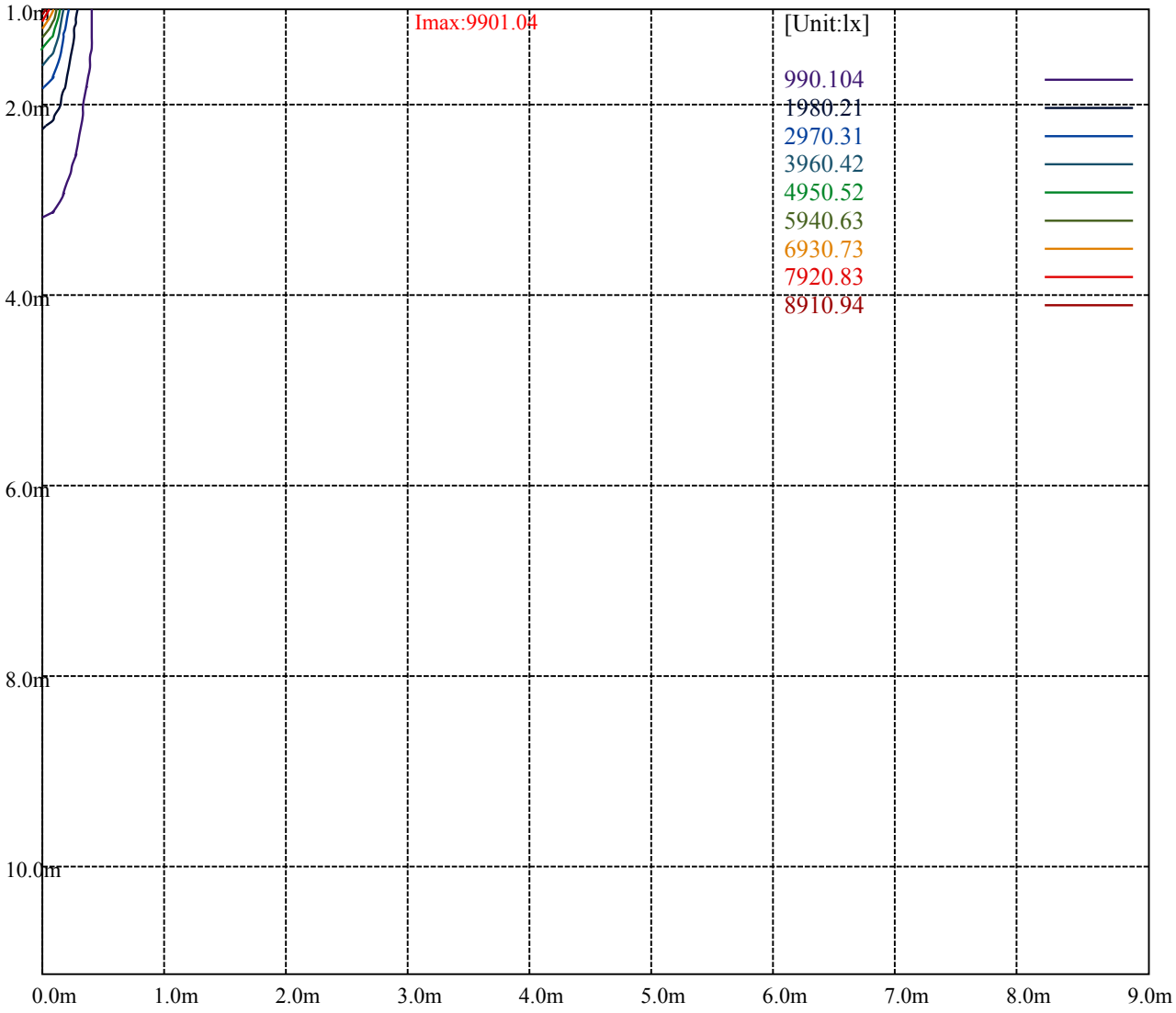
House [Unit:cd] Road

Imax:9901.04

(10%Imax) 990.104
(20%Imax) 1980.21
(30%Imax) 2970.31
(40%Imax) 3960.42
(50%Imax) 4950.52
(60%Imax) 5940.63
(70%Imax) 6930.73
(80%Imax) 7920.83
(90%Imax) 8910.94

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

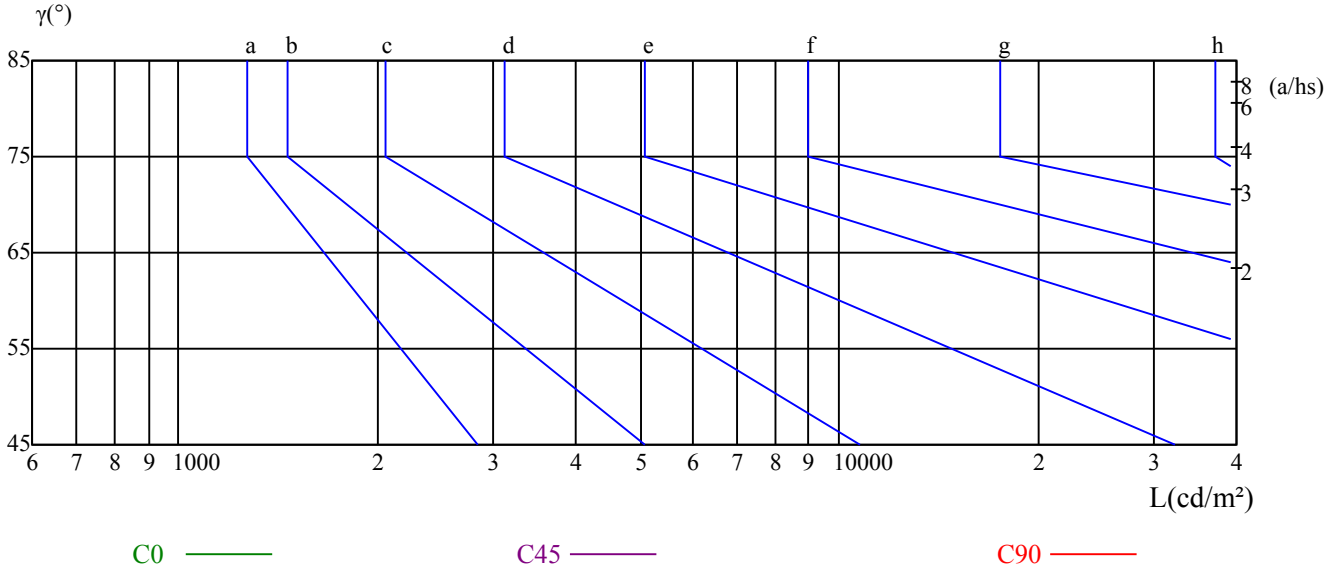
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

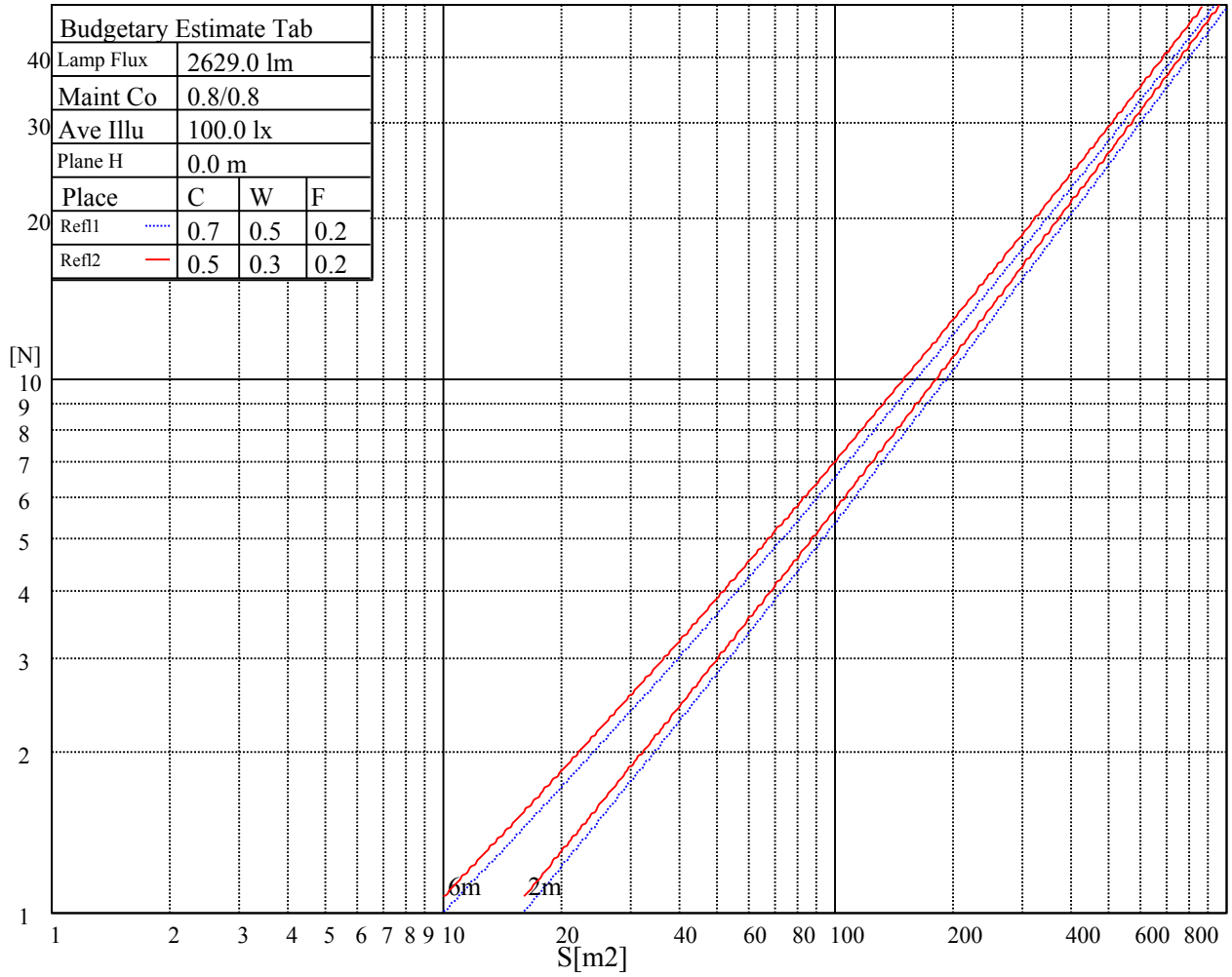
Luminance Limitting Curve



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		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

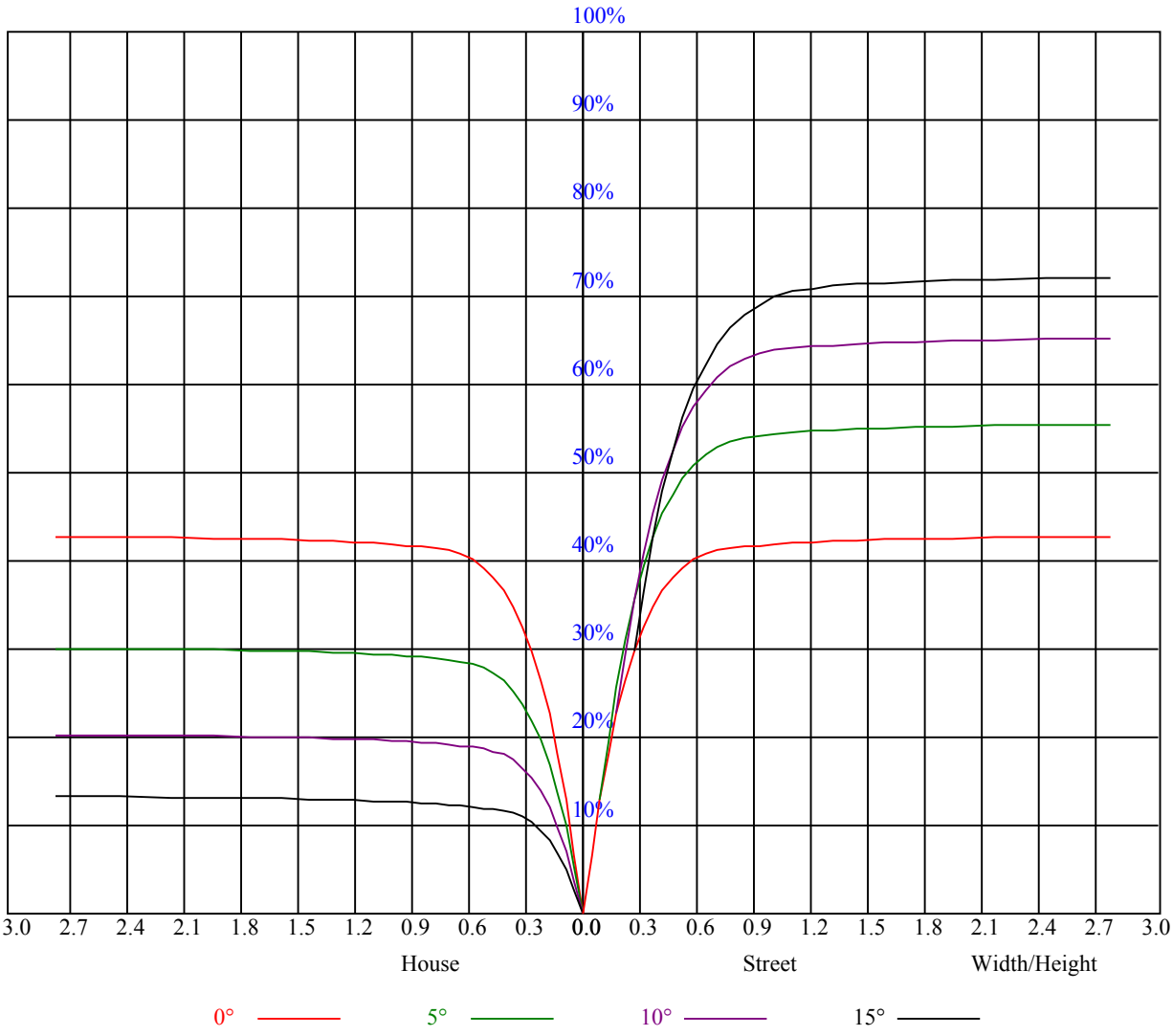


Equipment: GMS1980 Date: 2024/4/17 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Utilization factor table for indoor luminaire

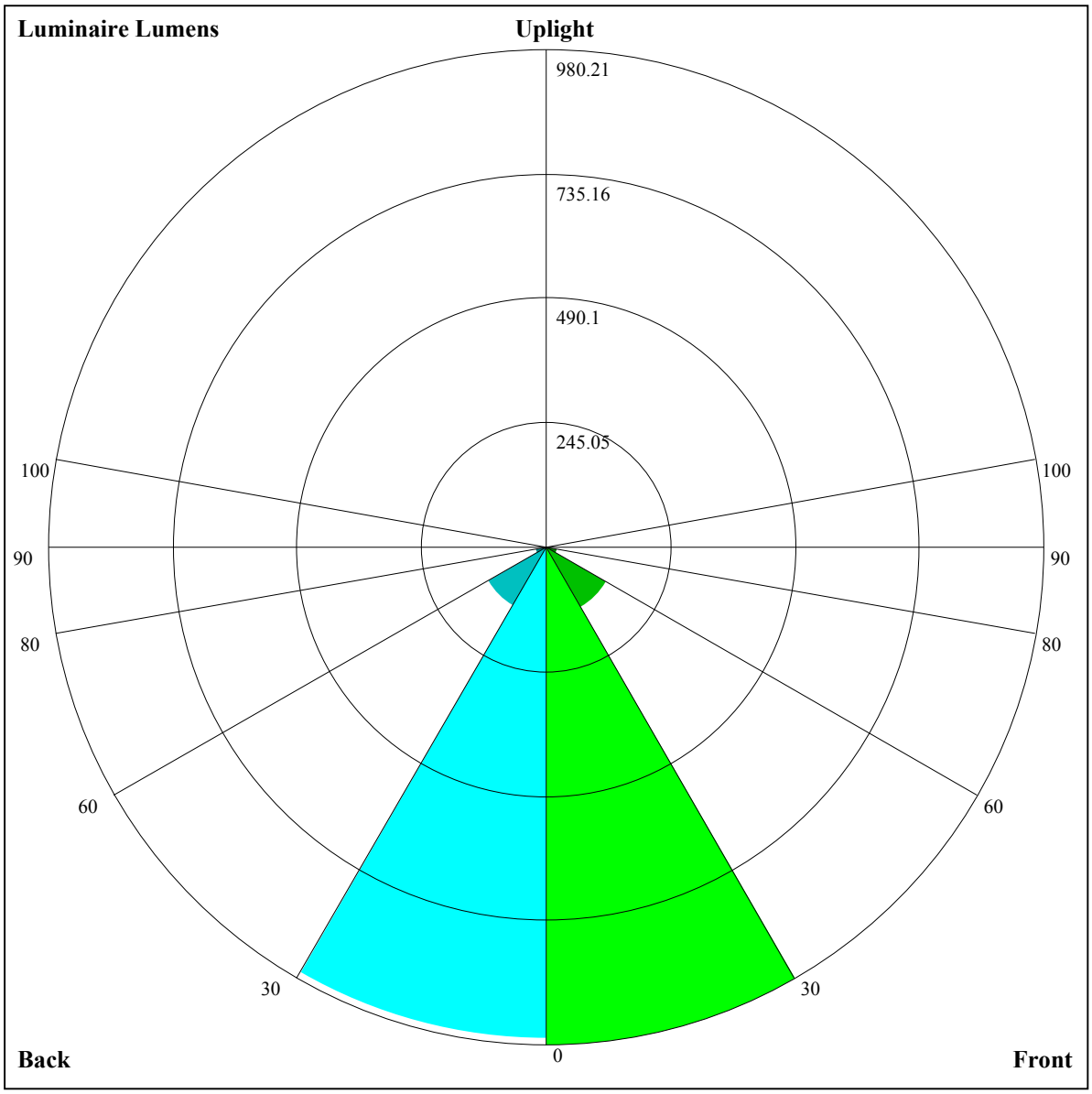
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.03	1.03	1.03	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.96	0.94	0.93	0.94	0.93	0.91	0.91	0.90	0.88	0.88	0.87	0.86	0.85	0.84	0.83	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	0.78	0.82	0.80	0.77	0.80	0.78	0.76	0.79	0.77	0.75	0.74
4	0.82	0.77	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.74	0.72	0.76	0.73	0.71	0.70
5	0.78	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.69	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	0.65	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	0.69	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	0.58	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: 2024/4/17	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

LCS Graph



Luminaire Lumens:
FL=980.21,FM=135.66,FH=21.94,FVH=6.37
BL=966.67,BM=134.76,BH=21.9,BVH=6.43
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	9960.59	9845.30	9533.96	9053.49	8297.96	7638.42	6951.36	6251.43	5422.17
45.0	9789.12	9965.86	9933.67	9697.24	9275.29	8574.19	7923.42	7234.61	6352.09
90.0	9968.20	9867.54	9593.07	9147.13	8439.59	7790.57	7100.59	6214.56	5543.31
135.0	9886.26	9942.45	9820.72	9527.52	8975.65	8394.53	7737.90	6862.99	6177.11
180.0	9960.59	9863.44	9594.82	9185.75	8525.03	7904.11	7216.47	6337.46	5686.69
225.0	9789.12	9443.83	8826.42	8217.20	7557.07	6681.57	5983.40	5348.43	4794.81
270.0	9968.20	9829.50	9502.36	8879.09	8268.70	7605.64	6888.74	5993.93	5348.43
315.0	9886.26	9643.40	9093.28	8519.18	7887.14	7190.72	6289.47	5594.81	4842.80
360.0	9960.59	9845.30	9533.96	9053.49	8297.96	7638.42	6951.36	6251.43	5422.17

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4859.18	4299.12	3928.67	3604.46	3253.91	3002.26	2774.03	2563.93	2325.74
45.0	5673.23	5061.67	4555.45	4061.52	3720.33	3421.28	3159.69	2855.96	2634.74
90.0	4945.79	4462.98	3959.69	3627.28	3350.47	3089.46	2796.85	2584.41	2348.57
135.0	5398.17	4859.18	4392.17	3905.85	3581.64	3286.10	3019.23	2726.04	2513.60
180.0	4981.49	4489.90	4065.03	3701.02	3322.38	3049.08	2807.38	2587.92	2348.57
225.0	4227.14	3854.94	3538.91	3260.35	2947.84	2718.43	2463.86	2280.10	2109.79
270.0	4783.69	4312.00	3846.74	3544.77	3264.44	2961.30	2736.57	2486.09	2307.02
315.0	4367.01	3976.08	3581.05	3307.75	3052.59	2770.51	2563.34	2376.66	2203.43
360.0	4859.18	4299.12	3928.67	3604.46	3253.91	3002.26	2774.03	2563.93	2325.74

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2157.78	2003.87	1861.07	1699.55	1577.24	1452.00	1141.48	1141.48	1056.39
45.0	2440.45	2220.40	2063.56	1887.41	1758.07	1635.18	1511.11	1350.76	1221.42
90.0	2178.85	2022.01	1848.20	1720.03	1593.04	1435.03	1145.64	1145.64	1065.99
135.0	2320.48	2150.76	1955.88	1818.35	1690.19	1533.93	1406.94	1277.02	1124.28
180.0	2175.34	2012.65	1863.41	1710.09	1569.05	1423.91	1286.97	1171.09	1035.32
225.0	1917.84	1782.07	1652.73	1528.67	1154.59	1154.59	1124.80	1021.45	945.61
270.0	2141.40	1983.39	1813.09	1690.77	1554.42	1440.30	1280.53	1164.66	1052.88
315.0	2004.45	1866.34	1734.08	1610.60	1458.44	1144.82	1144.82	1059.73	971.71
360.0	2157.78	2003.87	1861.07	1699.55	1577.24	1452.00	1141.48	1141.48	1056.39

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	954.91	882.17	800.18	685.71	597.28	510.49	421.24	317.54	240.47
45.0	1099.11	1003.72	911.84	835.76	748.56	661.36	551.34	461.22	351.78
90.0	984.93	901.25	829.85	743.59	631.75	540.40	450.51	337.67	255.39
135.0	1028.88	955.73	870.29	791.87	705.25	617.47	506.28	418.49	333.05
180.0	957.49	894.87	819.37	704.08	617.47	531.44	442.49	339.49	301.45
225.0	856.24	777.12	666.22	579.43	491.06	382.85	303.85	231.57	154.32
270.0	966.85	879.65	796.55	701.74	589.38	493.99	380.45	296.77	296.77
315.0	880.65	801.06	710.58	623.38	510.20	419.20	333.58	257.67	173.34
360.0	954.91	882.17	800.18	685.71	597.28	510.49	421.24	317.54	240.47

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	171.30	119.15	90.77	84.04	78.48	74.44	69.12	65.19	60.40
45.0	311.98	311.98	125.65	98.08	89.42	81.40	76.78	71.87	67.48
90.0	182.47	119.97	99.08	91.41	84.33	79.47	74.27	69.70	64.43
135.0	313.15	220.40	118.98	98.43	89.13	84.51	79.77	73.80	69.23
180.0	301.45	135.36	99.55	91.06	84.10	79.47	74.62	68.65	64.20
225.0	115.76	99.43	91.53	84.57	79.01	74.38	69.64	64.02	60.34
270.0	143.73	111.37	97.97	90.18	83.04	77.72	72.74	68.30	62.68
315.0	124.24	100.01	91.76	83.98	79.18	73.33	68.82	64.37	59.52
360.0	171.30	119.15	90.77	84.04	78.48	74.44	69.12	65.19	60.40

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	57.06	54.07	50.62	48.22	45.76	43.25	41.67	40.20	39.27
45.0	62.38	58.76	55.48	52.26	49.04	46.58	44.42	42.19	40.44
90.0	60.63	57.06	53.90	50.33	48.05	46.06	43.54	42.08	40.56
135.0	64.08	60.57	57.24	54.13	50.50	48.05	46.17	44.54	42.66
180.0	60.28	56.88	52.96	50.50	48.16	46.00	43.60	41.90	40.85
225.0	56.65	52.85	50.39	47.34	45.30	43.31	41.38	40.15	39.33
270.0	59.11	55.65	51.97	49.45	47.11	44.77	42.78	41.26	39.91
315.0	56.18	53.14	50.39	47.11	45.12	43.60	41.90	40.61	39.21
360.0	57.06	54.07	50.62	48.22	45.76	43.25	41.67	40.20	39.27

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	38.22	37.63	37.10	36.52	35.52	34.06	32.42	29.85	28.32
45.0	39.39	38.27	37.75	37.22	36.52	35.82	34.65	33.77	30.67
90.0	39.56	38.80	38.16	37.40	36.17	35.05	33.71	30.55	29.03
135.0	41.38	40.44	39.74	39.15	38.68	36.81	35.35	33.07	30.43
180.0	39.68	38.92	38.10	36.87	35.58	33.83	31.95	29.55	27.80
225.0	38.62	37.45	36.69	35.46	34.18	31.72	29.73	27.86	24.93
270.0	38.98	38.39	37.51	36.64	35.64	34.35	32.77	30.02	28.32
315.0	38.45	37.75	37.34	36.64	34.82	33.59	30.67	29.03	26.51
360.0	38.22	37.63	37.10	36.52	35.52	34.06	32.42	29.85	28.32

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.05	23.35	21.83	20.01	19.14	19.08	19.61	20.37	21.48
45.0	28.85	26.45	24.11	22.00	20.19	18.90	17.91	17.26	16.62
90.0	26.16	24.29	21.95	20.37	19.20	18.55	18.49	19.02	19.72
135.0	28.03	25.52	24.05	21.36	20.42	19.37	18.73	18.55	18.84
180.0	24.40	22.82	21.01	19.66	18.73	18.61	19.14	19.96	21.19
225.0	22.88	20.83	19.49	18.43	17.67	16.97	16.44	16.04	15.57
270.0	25.34	23.23	21.30	19.78	18.79	18.02	17.67	17.67	18.14
315.0	24.35	22.30	20.54	19.66	18.67	18.02	17.85	17.97	18.67
360.0	25.05	23.35	21.83	20.01	19.14	19.08	19.61	20.37	21.48

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	22.24	22.47	22.24	21.83	21.24	20.37	19.84	19.25	18.02
45.0	16.15	15.68	15.33	14.86	14.57	14.22	13.93	13.52	13.17
90.0	20.72	21.95	22.77	23.35	23.64	23.41	22.77	21.42	19.20
135.0	19.66	21.13	22.36	23.41	23.82	23.99	24.17	23.47	21.71
180.0	22.24	22.77	22.71	22.24	21.65	21.07	20.54	20.07	18.96
225.0	15.10	14.69	14.34	13.99	13.64	13.28	12.99	12.58	12.29
270.0	18.79	19.66	20.89	21.48	21.65	21.71	21.42	20.48	18.38
315.0	19.78	20.66	21.48	21.95	22.41	21.95	21.07	19.37	17.32
360.0	22.24	22.47	22.24	21.83	21.24	20.37	19.84	19.25	18.02

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.74	12.58	11.59	11.12	10.89	10.53	10.12	9.95	9.89
45.0	12.87	12.52	12.11	11.76	11.47	11.06	10.42	10.07	9.83
90.0	15.63	13.05	11.88	11.59	10.89	10.36	10.12	9.89	9.77
135.0	19.14	15.33	12.58	11.76	11.18	10.59	10.18	10.01	9.95
180.0	17.03	13.58	11.70	11.00	10.59	10.24	9.95	9.77	9.66
225.0	12.00	11.59	11.29	10.94	10.24	9.95	9.83	9.60	9.71
270.0	15.92	13.28	11.65	11.29	11.00	10.42	10.01	9.83	9.66
315.0	14.28	12.35	11.53	11.06	10.77	10.30	10.01	9.83	9.66
360.0	15.74	12.58	11.59	11.12	10.89	10.53	10.12	9.95	9.89

Intensity data(cd)

C/γ(°)	90.0
0.0	9.60
45.0	9.66
90.0	9.60
135.0	9.66
180.0	9.71
225.0	9.71
270.0	9.71
315.0	9.77
360.0	9.60