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

NT

Client:
LumCAT: 3-2806-L
Luminaire: 92.70.411.00
Report No: 2024418-B028
Ballast type: AC

Test No: 2024418-C028	Voltage(V): 33.580
LampCAT: NICHIA NFCWJ120B-V3	Current(A): 0.576
Lamp flux(lm): 2726.0	Power (W): 19.342
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2294.14, Efficiency(%): 84.16% , Luminous Efficacy(lm/W): 118.61
Central intensity(cd): 7925.761, Maximum intensity(cd): 7925.761
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=23.8
[C90/270]Total=23.8
Field angle(10%Imax): [C0/180]Total=58.8
[C90/270]Total=58.8
Maximum s/h(1/2): C0_180=0.40 C90_270=0.40
Maximum s/h(1/4): C0_180=0.46 C90_270=0.46
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.16%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.613%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7925.761	0.000	0	0.00%	0.00%
1.0	7881.576	7.564	7.564	0.28%	0.33%
2.0	7768.920	22.463	30.027	0.82%	1.31%
3.0	7570.163	36.686	66.713	1.35%	2.91%
4.0	7270.382	49.676	116.389	1.82%	5.07%
5.0	6876.306	60.858	177.247	2.23%	7.73%
6.0	6463.283	70.103	247.35	2.57%	10.78%
7.0	6013.026	77.440	324.79	2.84%	14.16%
8.0	5526.411	82.586	407.376	3.03%	17.76%
9.0	5067.522	85.858	493.234	3.15%	21.50%
10.0	4660.864	88.038	581.272	3.23%	25.34%
11.0	4257.205	89.110	670.382	3.27%	29.22%
12.0	3916.531	89.351	759.733	3.28%	33.12%
13.0	3540.231	88.493	848.226	3.25%	36.97%
14.0	3235.402	86.728	934.953	3.18%	40.75%
15.0	2967.881	85.161	1020.115	3.12%	44.47%
16.0	2727.792	83.458	1103.572	3.06%	48.10%
17.0	2485.509	81.185	1184.757	2.98%	51.64%
18.0	2287.703	78.700	1263.457	2.89%	55.07%
19.0	2116.305	76.621	1340.078	2.81%	58.41%
20.0	1951.564	74.453	1414.531	2.73%	61.66%
21.0	1787.701	71.801	1486.333	2.63%	64.79%
22.0	1642.492	68.931	1555.264	2.53%	67.79%
23.0	1461.446	65.129	1620.393	2.39%	70.63%
24.0	1288.292	60.119	1680.512	2.21%	73.25%
25.0	1200.465	56.589	1737.101	2.08%	75.72%
26.0	1078.562	53.797	1790.898	1.97%	78.06%
27.0	988.767	50.578	1841.475	1.86%	80.27%
28.0	910.325	48.081	1889.556	1.76%	82.36%
29.0	831.473	45.570	1935.127	1.67%	84.35%
30.0	735.343	42.304	1977.43	1.55%	86.19%
31.0	642.497	38.343	2015.774	1.41%	87.87%
32.0	544.815	34.015	2049.789	1.25%	89.35%
33.0	450.704	29.328	2079.117	1.08%	90.63%
34.0	348.114	24.175	2103.292	0.89%	91.68%
35.0	273.732	19.312	2122.604	0.71%	92.52%
36.0	233.527	16.151	2138.755	0.59%	93.23%
37.0	144.126	12.317	2151.072	0.45%	93.76%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	100.183	8.155	2159.227	0.30%	94.12%
39.0	88.054	6.425	2165.652	0.24%	94.40%
40.0	79.715	5.851	2171.503	0.21%	94.65%
41.0	72.919	5.435	2176.938	0.20%	94.89%
42.0	66.591	5.069	2182.007	0.19%	95.11%
43.0	61.236	4.735	2186.742	0.17%	95.32%
44.0	56.306	4.436	2191.178	0.16%	95.51%
45.0	52.114	4.167	2195.345	0.15%	95.69%
46.0	47.945	3.913	2199.258	0.14%	95.86%
47.0	44.441	3.674	2202.933	0.13%	96.02%
48.0	41.602	3.478	2206.411	0.13%	96.18%
49.0	38.976	3.309	2209.72	0.12%	96.32%
50.0	36.452	3.145	2212.865	0.12%	96.46%
51.0	34.426	2.999	2215.864	0.11%	96.59%
52.0	32.751	2.883	2218.746	0.11%	96.71%
53.0	31.295	2.786	2221.532	0.10%	96.83%
54.0	29.942	2.699	2224.231	0.10%	96.95%
55.0	28.852	2.624	2226.856	0.10%	97.07%
56.0	27.923	2.565	2229.421	0.09%	97.18%
57.0	27.367	2.528	2231.949	0.09%	97.29%
58.0	26.833	2.506	2234.455	0.09%	97.40%
59.0	26.247	2.482	2236.937	0.09%	97.51%
60.0	25.721	2.455	2239.392	0.09%	97.61%
61.0	25.143	2.427	2241.819	0.09%	97.72%
62.0	24.170	2.376	2244.196	0.09%	97.82%
63.0	23.058	2.297	2246.492	0.08%	97.92%
64.0	22.114	2.217	2248.709	0.08%	98.02%
65.0	21.061	2.137	2250.846	0.08%	98.11%
66.0	20.176	2.057	2252.903	0.08%	98.20%
67.0	19.488	1.994	2254.898	0.07%	98.29%
68.0	18.764	1.938	2256.835	0.07%	98.37%
69.0	18.420	1.897	2258.732	0.07%	98.46%
70.0	18.457	1.894	2260.626	0.07%	98.54%
71.0	18.778	1.925	2262.551	0.07%	98.62%
72.0	19.437	1.987	2264.538	0.07%	98.71%
73.0	20.059	2.065	2266.603	0.08%	98.80%
74.0	20.585	2.137	2268.74	0.08%	98.89%
75.0	20.849	2.189	2270.929	0.08%	98.99%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	20.658	2.203	2273.132	0.08%	99.08%
77.0	20.198	2.178	2275.311	0.08%	99.18%
78.0	19.583	2.129	2277.44	0.08%	99.27%
79.0	18.654	2.054	2279.495	0.08%	99.36%
80.0	17.191	1.932	2281.427	0.07%	99.45%
81.0	15.304	1.757	2283.184	0.06%	99.52%
82.0	13.036	1.537	2284.721	0.06%	99.59%
83.0	11.880	1.354	2286.076	0.05%	99.65%
84.0	11.339	1.265	2287.34	0.05%	99.70%
85.0	10.966	1.217	2288.558	0.04%	99.76%
86.0	10.505	1.174	2289.731	0.04%	99.81%
87.0	10.227	1.135	2290.866	0.04%	99.86%
88.0	9.985	1.107	2291.973	0.04%	99.91%
89.0	9.876	1.089	2293.062	0.04%	99.95%
90.0	9.846	1.081	2294.143	0.04%	100.00%

Zonal flux distribution table

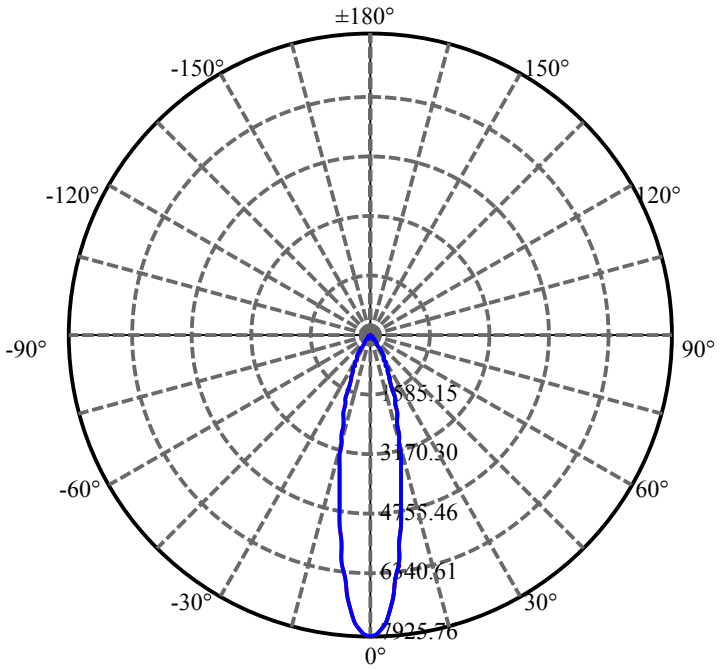
ZONAL LUMEN SUMMARY

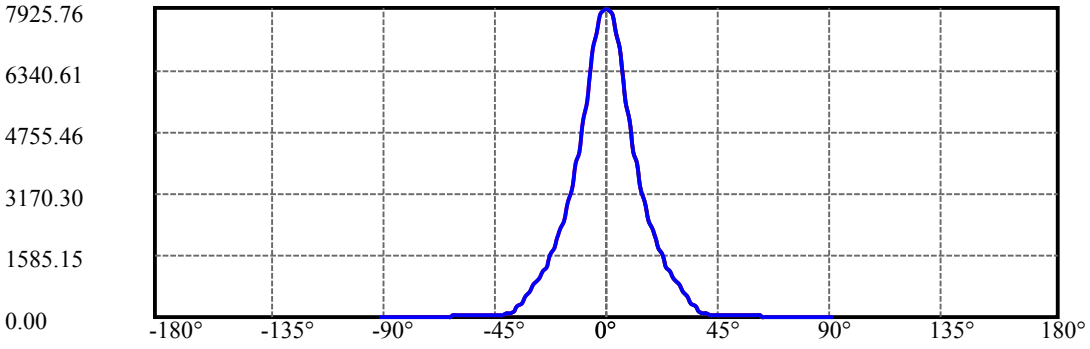
Zone	Lumens	%Lamp	%Fixt
0-30	1977.43	72.54%	86.19%
0-40	2171.50	79.66%	94.65%
0-60	2239.39	82.15%	97.61%
0-90	2293.06	84.12%	99.95%
0-120	2293.06	84.12%	99.95%
0-180	2294.14	84.16%	100.00%
60-90	53.67	1.97%	2.34%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.88	1835.31	67.33%	80.00%

ZONAL LUMEN SUMMARY

0-10	581.27
10-20	833.26
20-30	562.90
30-40	194.07
40-50	41.36
50-60	26.53
60-70	21.23
70-80	20.80
80-90	11.63
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):

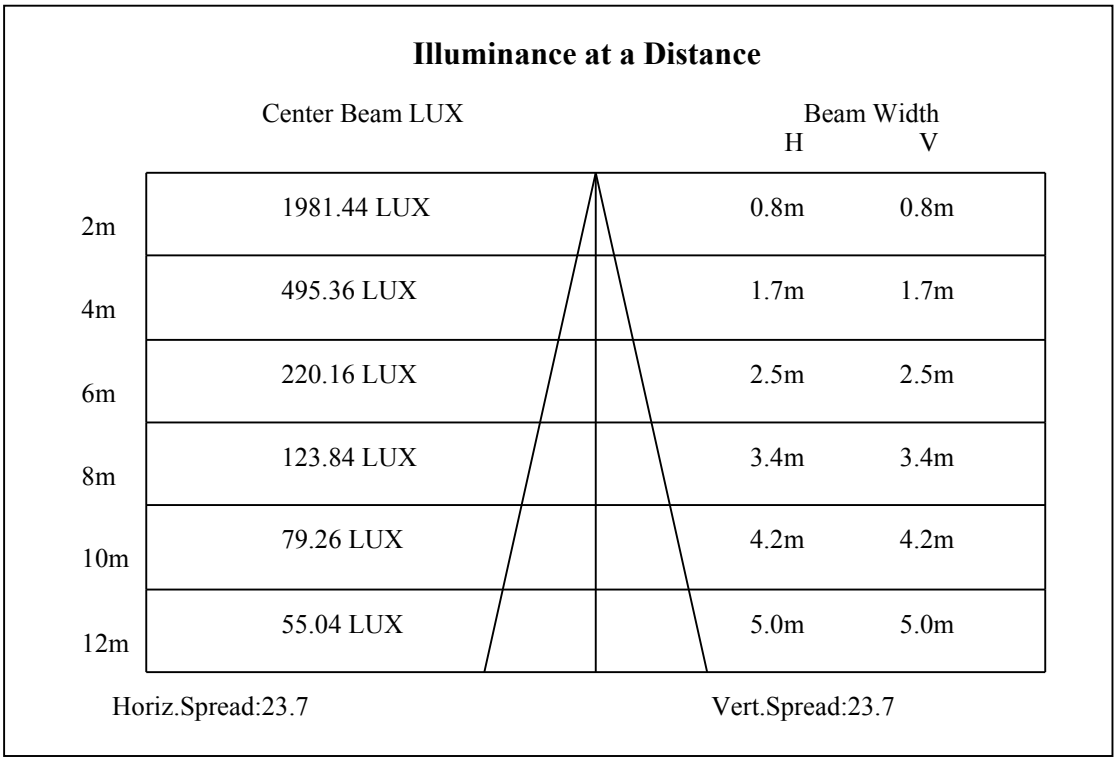
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:29.4 Right:29.4
:C90/270Left:29.4 Right:29.4

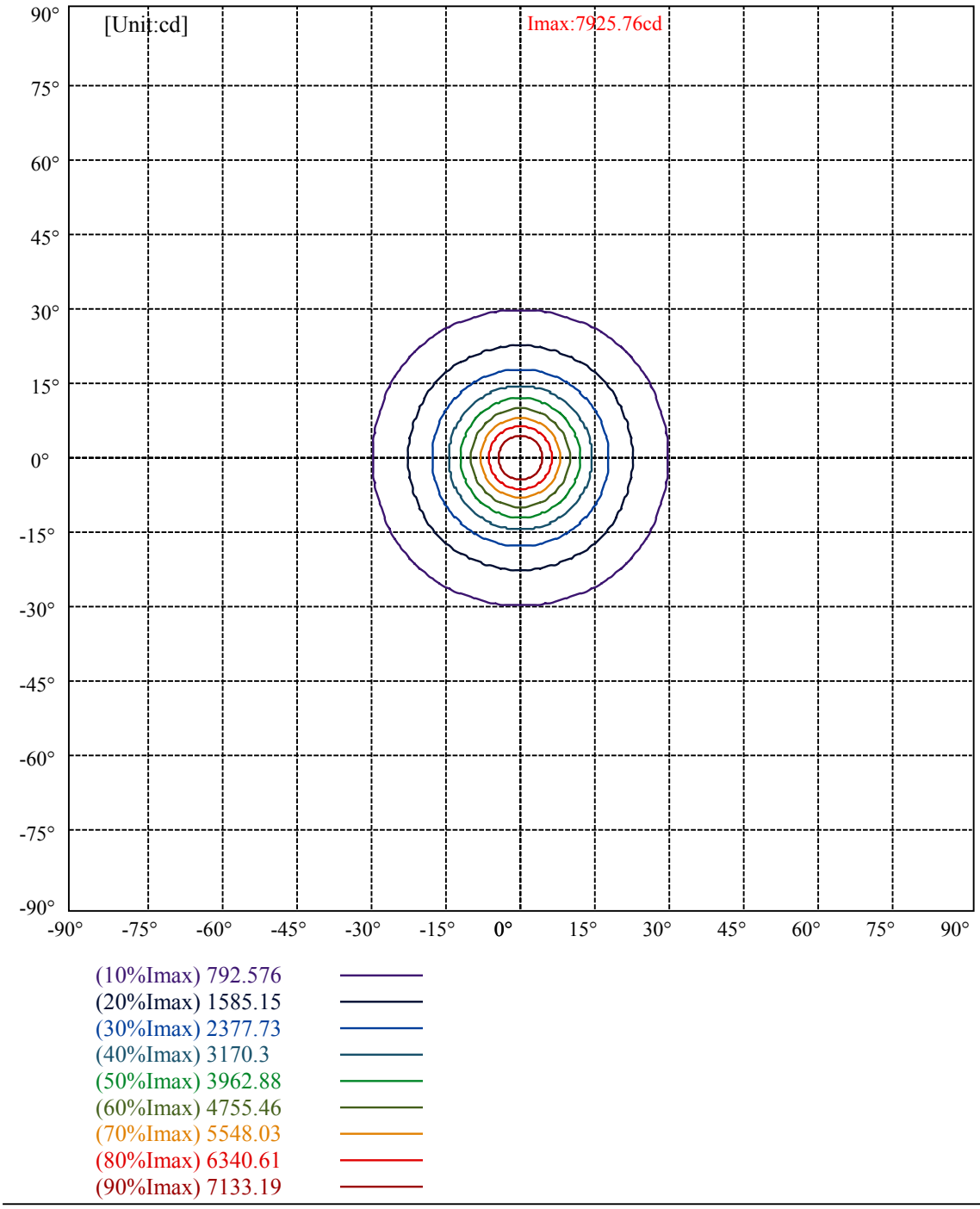
Beam Angle(50%Imax):C0/180Left:11.9 Right:11.9
:C90/270Left:11.9 Right:11.9

Lux distance Curve



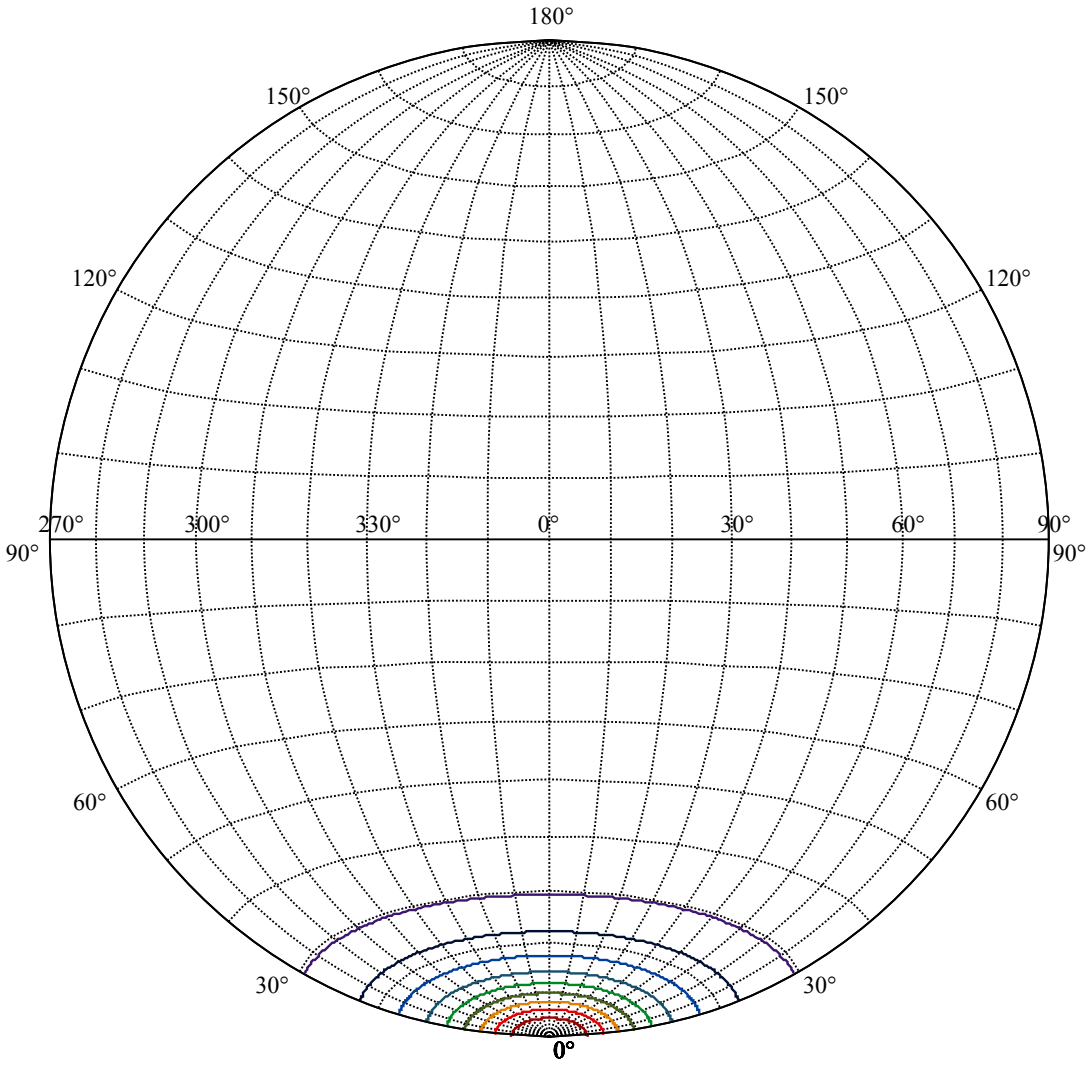
Equipment: GMS1980 Date: 2024/4/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)



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

ISO candela diagram on circular web



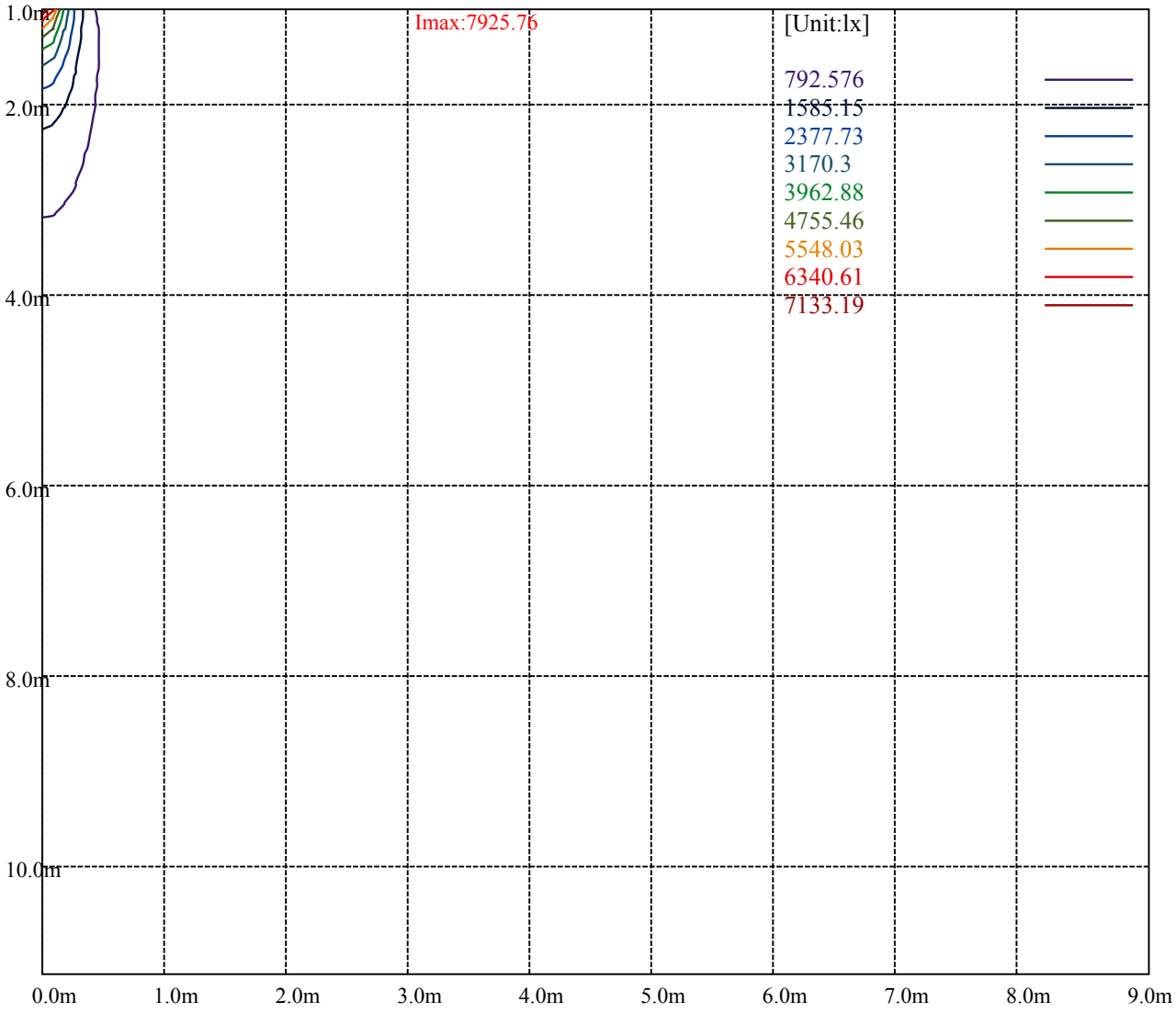
House [Unit:cd] Road

Imax:7925.76

(10%Imax) 792.576
(20%Imax) 1585.15
(30%Imax) 2377.73
(40%Imax) 3170.3
(50%Imax) 3962.88
(60%Imax) 4755.46
(70%Imax) 5548.03
(80%Imax) 6340.61
(90%Imax) 7133.19

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

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

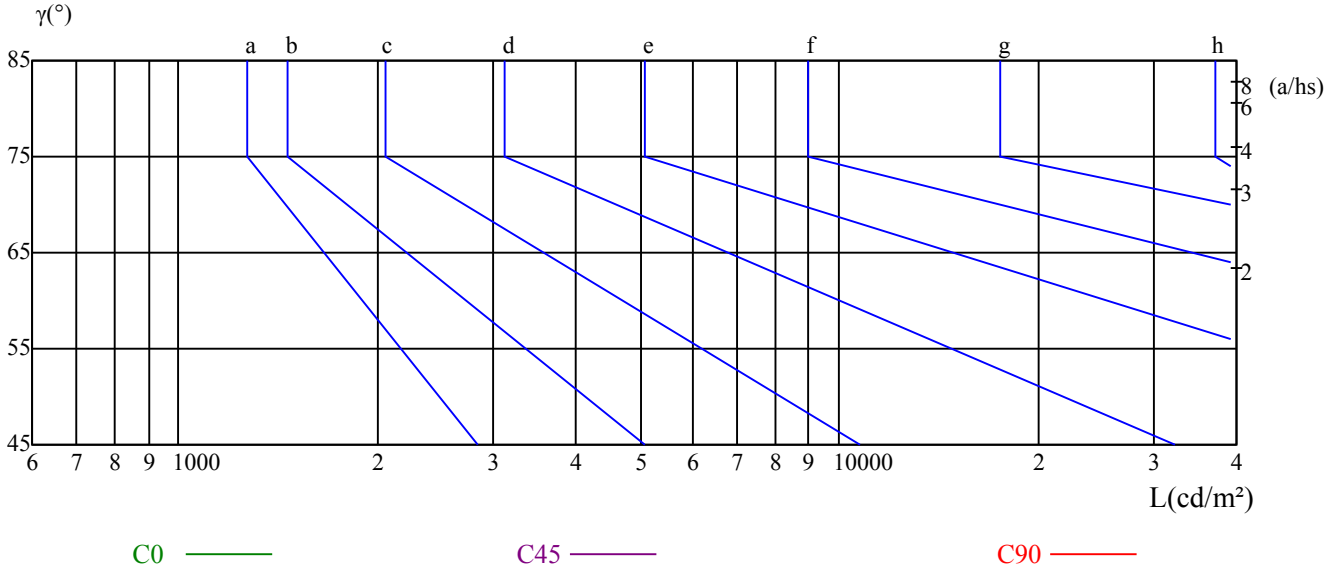
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

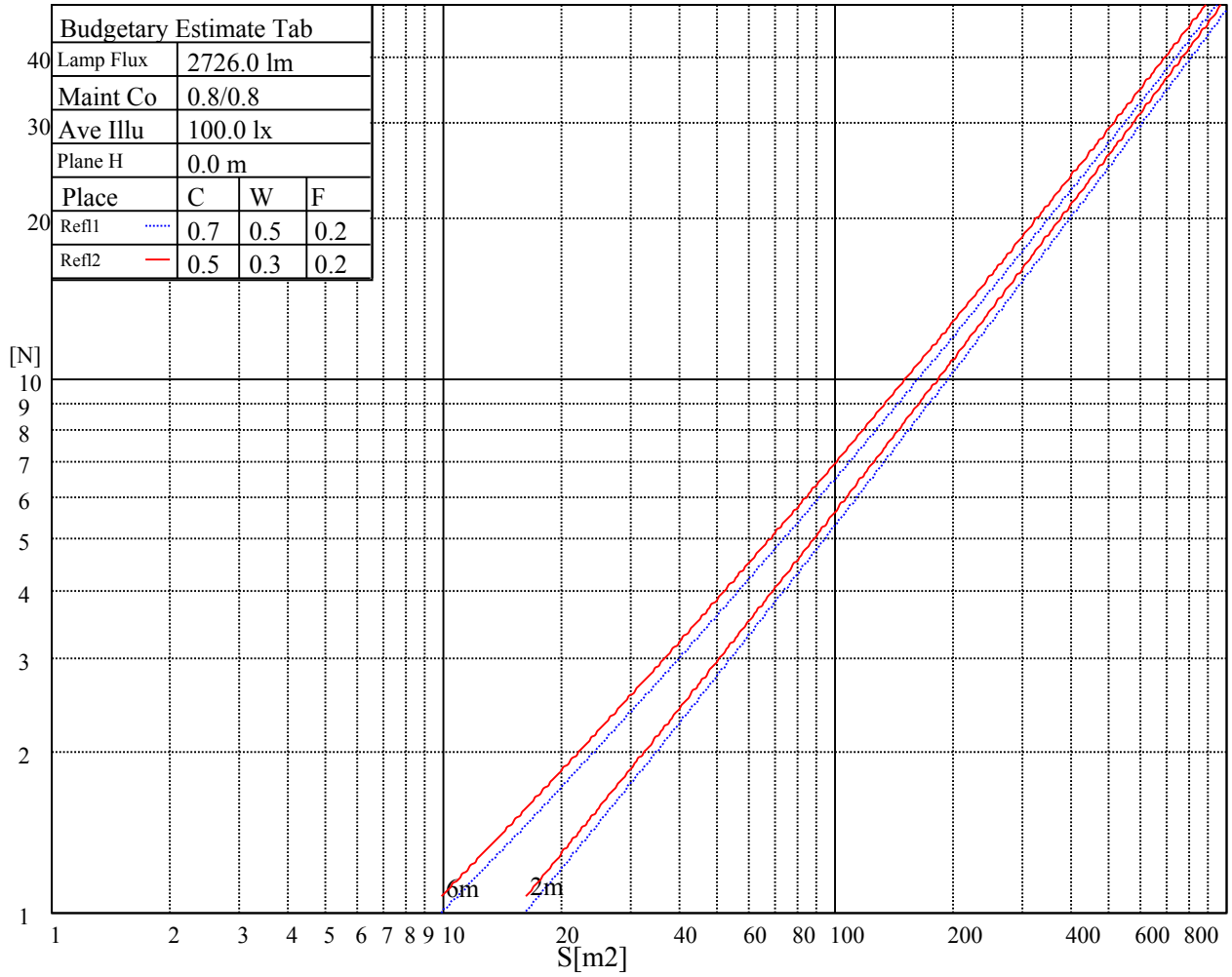
Luminance Limitting Curve



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

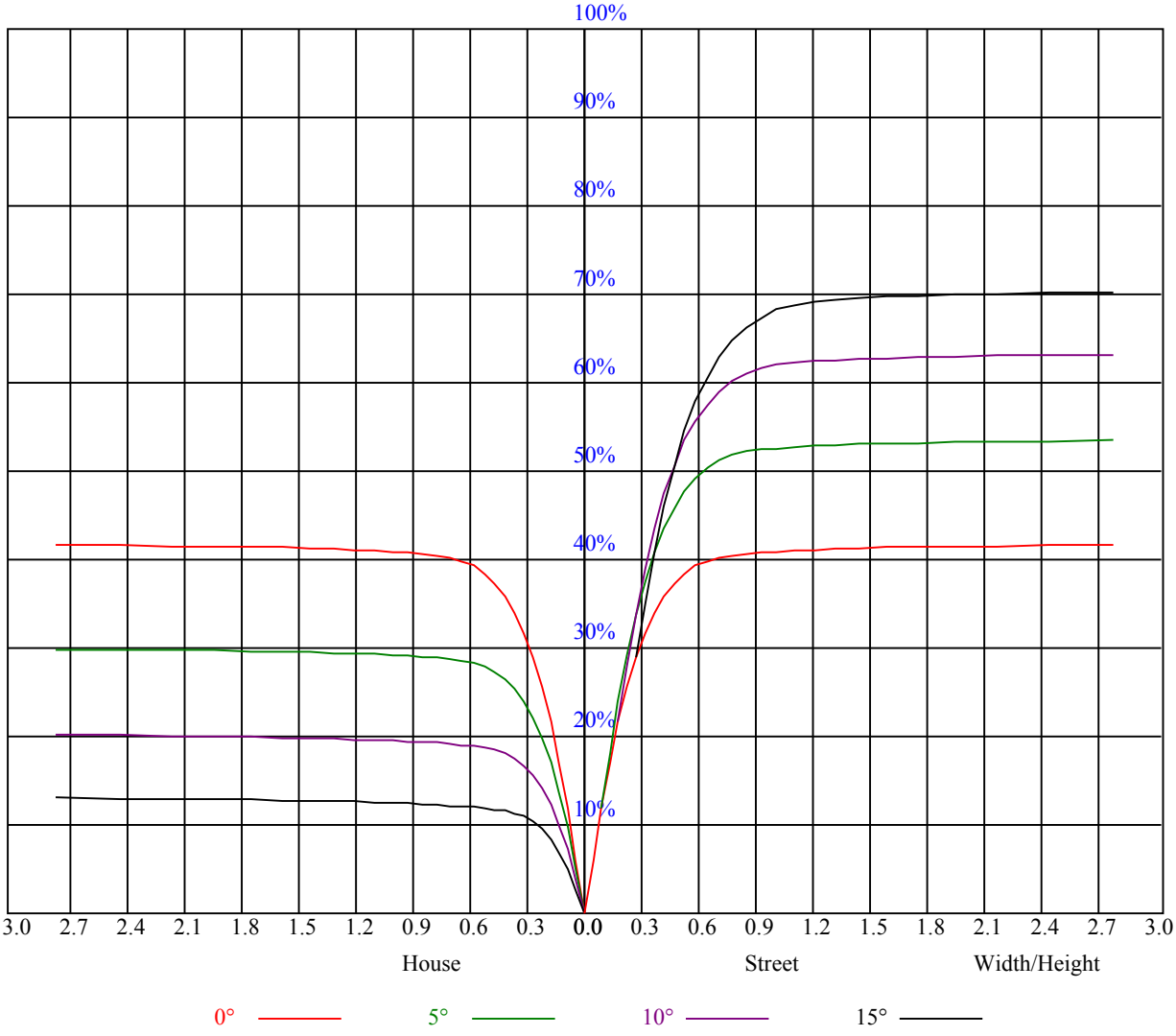


Equipment: GMS1980 Date: 2024/4/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

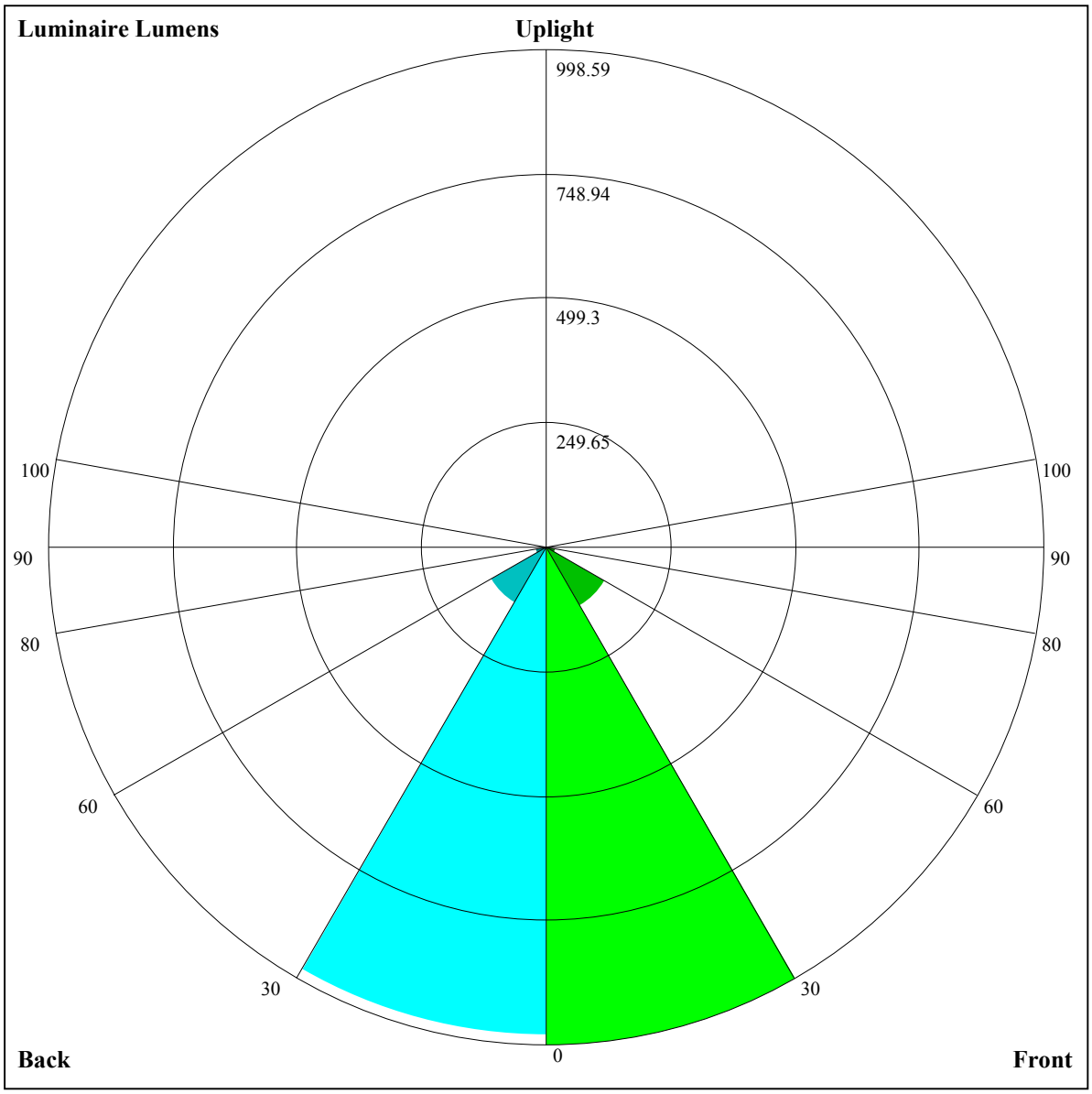
Utilization factor table for indoor luminaire

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	1.00	1.00	1.00	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.84
1	0.94	0.92	0.90	0.92	0.90	0.89	0.89	0.87	0.86	0.85	0.84	0.83	0.83	0.82	0.81	0.80
2	0.88	0.85	0.83	0.87	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.78	0.79	0.78	0.77	0.75
3	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.76	0.75	0.73	0.72
4	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.74	0.71	0.70	0.68
5	0.76	0.72	0.68	0.75	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.71	0.68	0.66	0.65
6	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.69	0.66	0.64	0.68	0.66	0.64	0.63
7	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.60
8	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.58
9	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.56	0.56
10	0.62	0.58	0.55	0.61	0.57	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.60	0.57	0.54	0.54

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=998.59,FM=135.42,FH=20.73,FVH=6.39
BL=980.13,BM=127.48,BH=21.34,BVH=6.47
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	7950.34	7908.20	7798.18	7609.74	7344.63	6904.54	6493.72	6073.52	5536.87
45.0	7898.84	7952.68	7918.15	7821.01	7645.44	7304.84	6959.55	6559.85	6026.12
90.0	7936.29	7893.57	7773.02	7512.59	7214.13	6853.04	6338.63	5906.73	5473.08
135.0	7917.57	7921.66	7861.39	7737.32	7457.58	7145.66	6759.41	6250.85	5814.85
180.0	7950.34	7901.77	7792.91	7604.47	7244.56	6900.45	6502.49	5959.99	5522.24
225.0	7898.84	7738.49	7521.37	7212.37	6849.53	6328.68	5904.98	5465.47	5033.58
270.0	7936.29	7914.64	7820.42	7641.93	7306.01	6951.36	6552.82	6127.95	5588.96
315.0	7917.57	7821.59	7665.92	7421.88	7101.18	6621.88	6194.67	5759.84	5215.58
360.0	7950.34	7908.20	7798.18	7609.74	7344.63	6904.54	6493.72	6073.52	5536.87

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5109.07	4701.17	4238.26	3894.73	3496.19	3215.28	2953.10	2714.33	2452.74
45.0	5591.88	5168.18	4763.20	4381.05	3943.89	3626.11	3327.65	2990.56	2747.10
90.0	4946.97	4554.86	4190.85	3856.69	3468.69	3182.51	2928.52	2706.14	2455.66
135.0	5285.81	4879.08	4504.54	4155.16	3740.82	3432.40	3153.84	2908.04	2631.23
180.0	4997.29	4613.39	4234.16	3900.00	3502.04	3211.77	2950.18	2725.45	2472.63
225.0	4633.28	4185.00	3853.18	3550.03	3194.80	2940.81	2655.81	2457.42	2273.66
270.0	5171.11	4759.69	4285.66	3929.26	3609.14	3245.13	2984.12	2748.86	2480.24
315.0	4804.76	4425.53	3987.78	3665.32	3366.27	3029.18	2789.83	2571.54	2370.80
360.0	5109.07	4701.17	4238.26	3894.73	3496.19	3215.28	2953.10	2714.33	2452.74

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2268.98	2102.77	1945.35	1763.93	1634.01	1498.23	1156.52	1156.52	1071.25
45.0	2528.82	2291.80	2126.77	1938.91	1796.11	1657.42	1525.15	1353.10	1214.40
90.0	2281.27	2117.99	1931.30	1788.51	1649.81	1478.34	1139.61	1139.61	1055.86
135.0	2431.08	2257.86	2057.71	1906.72	1763.93	1597.14	1460.78	1325.59	1154.71
180.0	2290.63	2123.25	1965.24	1783.82	1647.47	1468.39	1336.71	1199.18	1058.15
225.0	2064.15	1913.74	1769.78	1630.50	1461.37	1162.37	1162.37	1071.90	964.39
270.0	2289.46	2130.86	1972.27	1783.24	1645.71	1515.79	1379.43	1212.06	1088.58
315.0	2147.25	1992.16	1844.10	1705.99	1541.54	1313.89	1145.75	1145.75	1021.16
360.0	2268.98	2102.77	1945.35	1763.93	1634.01	1498.23	1156.52	1156.52	1071.25

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	985.93	908.56	842.67	746.69	660.02	567.38	475.61	361.03	273.36
45.0	1088.58	999.62	915.35	846.88	768.46	659.61	567.73	477.02	365.24
90.0	974.63	909.85	835.94	732.35	639.83	545.72	452.67	337.50	251.65
135.0	1045.27	965.09	872.04	790.11	701.16	606.35	491.65	401.52	313.15
180.0	972.12	900.13	822.88	709.35	612.79	521.49	431.37	322.52	301.45
225.0	892.12	812.23	724.74	608.58	514.53	402.93	316.84	239.65	160.94
270.0	996.11	913.01	841.61	737.44	647.90	554.27	461.22	347.68	304.96
315.0	955.38	874.09	796.55	711.34	595.29	500.78	408.55	298.00	219.11
360.0	985.93	908.56	842.67	746.69	660.02	567.38	475.61	361.03	273.36

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	196.64	137.00	98.55	88.31	80.29	72.45	66.54	61.33	55.95
45.0	300.28	300.28	126.17	99.14	89.66	79.82	73.80	67.77	62.44
90.0	180.83	117.16	95.92	86.79	77.83	71.81	66.07	60.04	55.71
135.0	313.15	147.13	108.68	94.57	83.92	77.31	70.40	64.96	60.22
180.0	301.45	112.89	96.62	87.37	78.42	72.22	65.37	60.57	56.18
225.0	116.87	98.20	88.49	78.89	72.28	66.42	61.04	55.30	50.91
270.0	304.96	131.03	96.62	87.26	79.47	73.27	66.13	60.98	55.42
315.0	154.03	109.32	90.42	82.11	75.85	70.05	63.38	58.93	53.61
360.0	196.64	137.00	98.55	88.31	80.29	72.45	66.54	61.33	55.95

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	51.79	47.99	44.18	41.26	38.86	36.05	34.18	32.60	31.08
45.0	58.00	52.44	48.69	45.47	41.67	39.03	36.81	34.29	32.66
90.0	51.38	47.70	43.83	40.91	38.51	36.23	33.83	32.30	30.67
135.0	55.89	50.74	47.34	44.18	41.43	38.45	36.34	34.76	33.24
180.0	51.85	47.58	44.48	41.73	39.33	36.52	34.76	33.12	31.54
225.0	47.23	43.31	40.50	38.22	35.52	33.71	31.78	30.37	29.26
270.0	51.15	47.52	43.77	40.97	38.68	35.99	34.12	32.54	31.13
315.0	49.63	46.29	42.72	40.09	37.81	35.64	33.59	32.01	30.78
360.0	51.79	47.99	44.18	41.26	38.86	36.05	34.18	32.60	31.08

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	29.90	28.62	27.74	27.15	26.63	26.04	25.52	25.05	23.82
45.0	30.78	29.55	28.62	27.68	27.04	26.69	26.04	25.52	25.22
90.0	29.61	28.68	27.68	27.21	26.74	25.98	25.52	25.05	23.99
135.0	31.66	30.67	29.38	28.56	28.15	27.45	26.80	26.39	25.63
180.0	30.08	29.03	27.86	27.56	27.04	26.28	25.87	25.40	24.29
225.0	28.15	27.15	26.69	26.28	25.69	25.28	24.70	23.70	22.53
270.0	29.61	28.62	27.68	27.10	26.69	26.10	25.57	25.16	24.17
315.0	29.73	28.50	27.74	27.39	26.69	26.16	25.75	24.87	23.70
360.0	29.90	28.62	27.74	27.15	26.63	26.04	25.52	25.05	23.82

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.71	21.89	20.66	19.72	18.90	18.02	18.08	18.67	19.61
45.0	23.94	22.88	22.12	20.66	19.84	18.90	17.91	17.15	16.39
90.0	22.82	21.95	20.89	19.90	19.02	18.20	17.91	18.14	18.61
135.0	24.29	23.53	22.47	21.30	20.37	19.72	19.14	18.84	19.14
180.0	23.12	22.36	21.42	21.30	21.83	22.12	22.77	23.82	24.87
225.0	21.65	20.48	19.43	18.67	17.79	16.97	16.33	15.86	15.45
270.0	22.94	22.18	20.89	20.01	19.14	18.20	17.56	17.44	17.85
315.0	23.00	21.65	20.60	19.84	19.02	17.97	17.67	17.73	18.32
360.0	22.71	21.89	20.66	19.72	18.90	18.02	18.08	18.67	19.61

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	20.72	21.19	21.42	21.24	20.78	20.19	19.61	18.90	17.97
45.0	15.92	15.39	15.04	14.57	14.22	13.93	13.64	13.23	12.93
90.0	19.78	20.72	21.59	22.24	22.30	21.95	21.24	20.07	17.97
135.0	19.90	21.54	22.94	24.23	24.46	24.05	23.23	21.77	20.25
180.0	25.75	26.16	26.04	25.52	24.81	23.94	23.00	22.00	20.13
225.0	14.98	14.63	14.28	13.99	13.58	13.28	12.99	12.64	12.35
270.0	18.61	19.61	20.66	21.71	21.95	21.71	21.24	20.42	18.67
315.0	19.84	21.24	22.71	23.29	23.17	22.53	21.71	20.19	17.26
360.0	20.72	21.19	21.42	21.24	20.78	20.19	19.61	18.90	17.97

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	16.62	13.46	11.88	11.12	10.89	10.59	10.30	10.07	10.01
45.0	12.64	12.29	11.88	11.53	11.24	10.94	10.53	10.18	9.95
90.0	15.39	12.64	11.59	11.29	10.94	10.48	10.24	10.01	9.83
135.0	18.26	15.16	12.87	11.76	11.29	10.65	10.36	10.07	10.07
180.0	16.97	13.28	11.65	11.24	10.89	10.36	10.12	9.95	9.77
225.0	12.06	11.82	11.59	11.18	10.42	10.12	9.95	9.71	9.89
270.0	16.27	13.34	11.82	11.47	11.24	10.53	10.24	9.95	9.77
315.0	14.22	12.29	11.76	11.12	10.83	10.36	10.07	9.95	9.71
360.0	16.62	13.46	11.88	11.12	10.89	10.59	10.30	10.07	10.01

Intensity data(cd)

C/γ(°)	90.0
0.0	9.77
45.0	9.83
90.0	9.77
135.0	9.83
180.0	9.83
225.0	9.83
270.0	9.95
315.0	9.95
360.0	9.77