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NT

Client:
LumCAT: 3-2832-L
Luminaire: 92.70.411.00
Report No: 2024422-B005
Ballast type: AC

Test No: 2024422-C005	Voltage(V): 33.600
LampCAT: NICHIA NFCWJ120B-V3	Current(A): 0.576
Lamp flux(lm): 2731.0	Power (W): 19.353
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2318.21, Efficiency(%): 84.88% , Luminous Efficacy(lm/W): 119.79
Central intensity(cd): 11593.510, Maximum intensity(cd): 11593.510
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=17.0
[C90/270]Total=17.0
Field angle(10%Imax): [C0/180]Total=49.2
[C90/270]Total=49.2
Maximum s/h(1/2): C0_180=0.29 C90_270=0.29
Maximum s/h(1/4): C0_180=0.34 C90_270=0.34
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.89%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.837%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11593.512	0.000	0	0.00%	0.00%
1.0	11493.512	11.047	11.047	0.40%	0.48%
2.0	11102.282	32.432	43.478	1.19%	1.88%
3.0	10585.747	51.871	95.349	1.90%	4.11%
4.0	9799.278	68.235	163.584	2.50%	7.06%
5.0	8957.139	80.689	244.273	2.95%	10.54%
6.0	8047.700	89.365	333.638	3.27%	14.39%
7.0	7105.926	94.058	427.697	3.44%	18.45%
8.0	6185.367	95.123	522.82	3.48%	22.55%
9.0	5380.317	93.734	616.553	3.43%	26.60%
10.0	4696.994	91.196	707.749	3.34%	30.53%
11.0	4153.686	88.436	796.186	3.24%	34.34%
12.0	3685.359	85.692	881.878	3.14%	38.04%
13.0	3301.671	82.918	964.796	3.04%	41.62%
14.0	2994.062	80.585	1045.381	2.95%	45.09%
15.0	2751.925	78.883	1124.265	2.89%	48.50%
16.0	2462.685	76.409	1200.673	2.80%	51.79%
17.0	2237.374	73.193	1273.866	2.68%	54.95%
18.0	2045.859	70.621	1344.487	2.59%	58.00%
19.0	1883.386	68.361	1412.848	2.50%	60.95%
20.0	1735.031	66.227	1479.075	2.43%	63.80%
21.0	1592.675	63.899	1542.974	2.34%	66.56%
22.0	1450.400	61.152	1604.126	2.24%	69.20%
23.0	1303.933	57.793	1661.919	2.12%	71.69%
24.0	1210.114	54.966	1716.885	2.01%	74.06%
25.0	1119.674	52.974	1769.859	1.94%	76.35%
26.0	1014.656	50.381	1820.24	1.84%	78.52%
27.0	944.348	47.927	1868.168	1.75%	80.59%
28.0	885.738	46.334	1914.502	1.70%	82.59%
29.0	828.598	44.852	1959.354	1.64%	84.52%
30.0	753.338	42.712	2002.066	1.56%	86.36%
31.0	657.142	39.252	2041.317	1.44%	88.06%
32.0	556.183	34.760	2076.078	1.27%	89.56%
33.0	449.467	29.627	2105.704	1.08%	90.83%
34.0	339.877	23.888	2129.592	0.87%	91.86%
35.0	265.992	18.816	2148.408	0.69%	92.68%
36.0	212.042	15.221	2163.629	0.56%	93.33%
37.0	130.571	11.174	2174.803	0.41%	93.81%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	92.575	7.448	2182.251	0.27%	94.14%
39.0	83.241	6.001	2188.252	0.22%	94.39%
40.0	77.330	5.600	2193.853	0.21%	94.64%
41.0	71.785	5.310	2199.163	0.19%	94.86%
42.0	66.555	5.026	2204.189	0.18%	95.08%
43.0	61.697	4.751	2208.94	0.17%	95.29%
44.0	57.579	4.502	2213.441	0.16%	95.48%
45.0	53.863	4.283	2217.724	0.16%	95.67%
46.0	50.644	4.087	2221.811	0.15%	95.84%
47.0	47.447	3.901	2225.713	0.14%	96.01%
48.0	44.975	3.736	2229.449	0.14%	96.17%
49.0	42.838	3.606	2233.055	0.13%	96.33%
50.0	41.002	3.496	2236.55	0.13%	96.48%
51.0	39.298	3.397	2239.948	0.12%	96.62%
52.0	38.135	3.323	2243.27	0.12%	96.77%
53.0	37.096	3.273	2246.543	0.12%	96.91%
54.0	36.255	3.233	2249.776	0.12%	97.05%
55.0	35.318	3.195	2252.971	0.12%	97.19%
56.0	34.492	3.155	2256.125	0.12%	97.32%
57.0	33.438	3.106	2259.231	0.11%	97.46%
58.0	32.253	3.038	2262.269	0.11%	97.59%
59.0	30.856	2.950	2265.22	0.11%	97.71%
60.0	29.349	2.844	2268.064	0.10%	97.84%
61.0	27.608	2.718	2270.782	0.10%	97.95%
62.0	26.050	2.586	2273.367	0.09%	98.07%
63.0	24.199	2.444	2275.811	0.09%	98.17%
64.0	22.626	2.298	2278.109	0.08%	98.27%
65.0	21.178	2.168	2280.277	0.08%	98.36%
66.0	19.839	2.046	2282.323	0.07%	98.45%
67.0	18.756	1.941	2284.264	0.07%	98.54%
68.0	17.769	1.850	2286.114	0.07%	98.62%
69.0	17.154	1.782	2287.896	0.07%	98.69%
70.0	16.569	1.732	2289.628	0.06%	98.77%
71.0	16.086	1.688	2291.316	0.06%	98.84%
72.0	15.677	1.652	2292.967	0.06%	98.91%
73.0	15.428	1.627	2294.594	0.06%	98.98%
74.0	15.428	1.622	2296.216	0.06%	99.05%
75.0	15.435	1.631	2297.847	0.06%	99.12%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.530	1.644	2299.49	0.06%	99.19%
77.0	15.487	1.654	2301.144	0.06%	99.26%
78.0	15.355	1.651	2302.795	0.06%	99.34%
79.0	14.989	1.630	2304.426	0.06%	99.41%
80.0	14.148	1.571	2305.996	0.06%	99.47%
81.0	13.072	1.472	2307.468	0.05%	99.54%
82.0	12.100	1.365	2308.833	0.05%	99.60%
83.0	11.587	1.288	2310.121	0.05%	99.65%
84.0	11.288	1.246	2311.367	0.05%	99.70%
85.0	10.988	1.216	2312.583	0.04%	99.76%
86.0	10.622	1.181	2313.764	0.04%	99.81%
87.0	10.344	1.147	2314.912	0.04%	99.86%
88.0	10.081	1.119	2316.03	0.04%	99.91%
89.0	9.898	1.095	2317.125	0.04%	99.95%
90.0	9.839	1.082	2318.208	0.04%	100.00%

Zonal flux distribution table

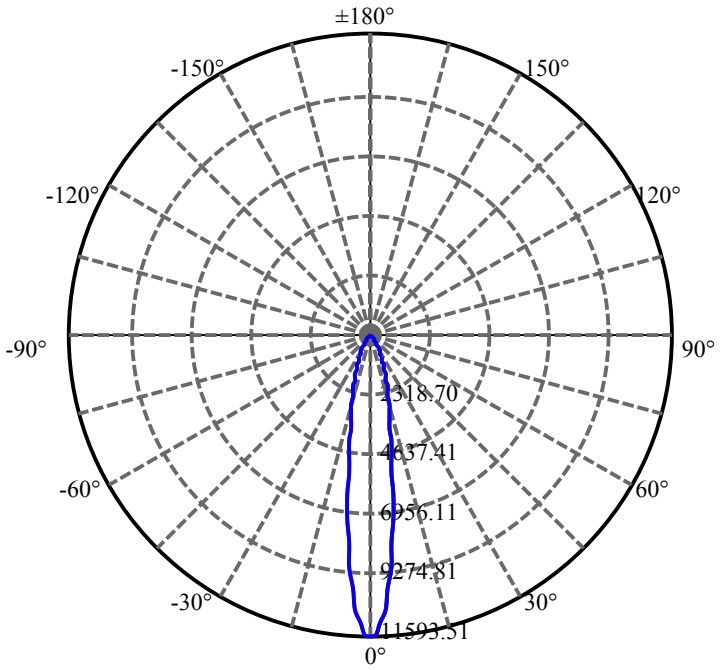
ZONAL LUMEN SUMMARY

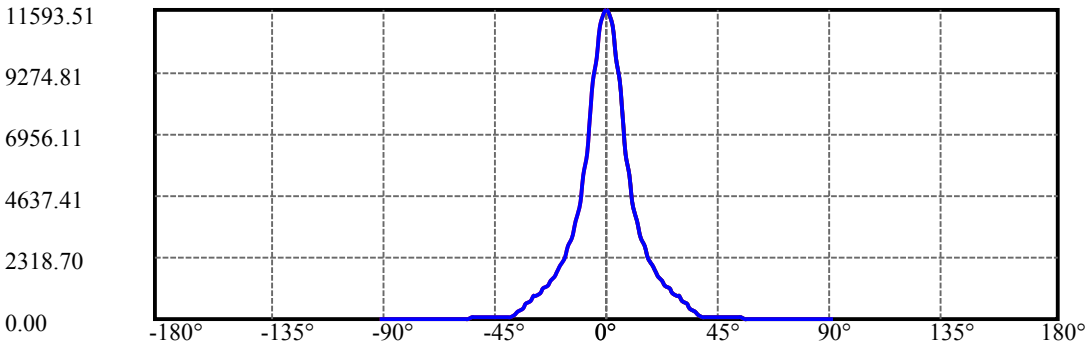
Zone	Lumens	%Lamp	%Fixt
0-30	2002.07	73.31%	86.36%
0-40	2193.85	80.33%	94.64%
0-60	2268.06	83.05%	97.84%
0-90	2317.13	84.85%	99.95%
0-120	2317.13	84.85%	99.95%
0-180	2318.21	84.88%	100.00%
60-90	49.06	1.80%	2.12%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.72	1854.57	67.91%	80.00%

ZONAL LUMEN SUMMARY

0-10	707.75
10-20	771.33
20-30	522.99
30-40	191.79
40-50	42.70
50-60	31.51
60-70	21.56
70-80	16.37
80-90	11.13
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):

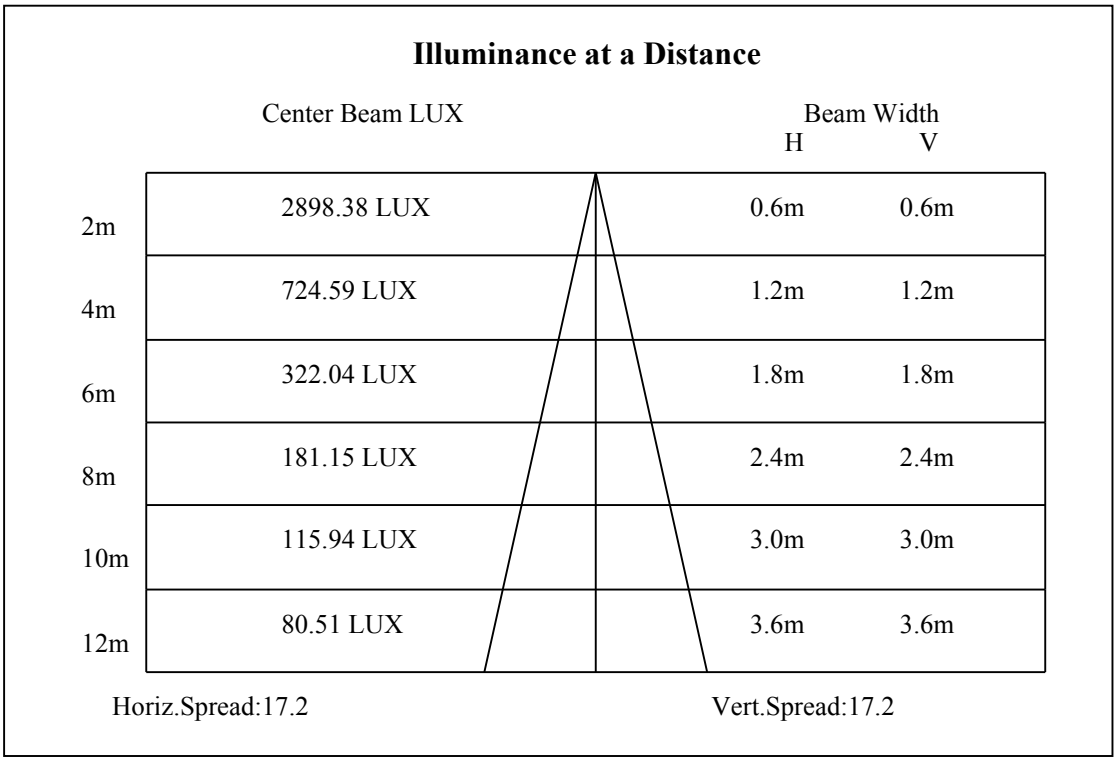
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:24.6 Right:24.6
:C90/270Left:24.6 Right:24.6

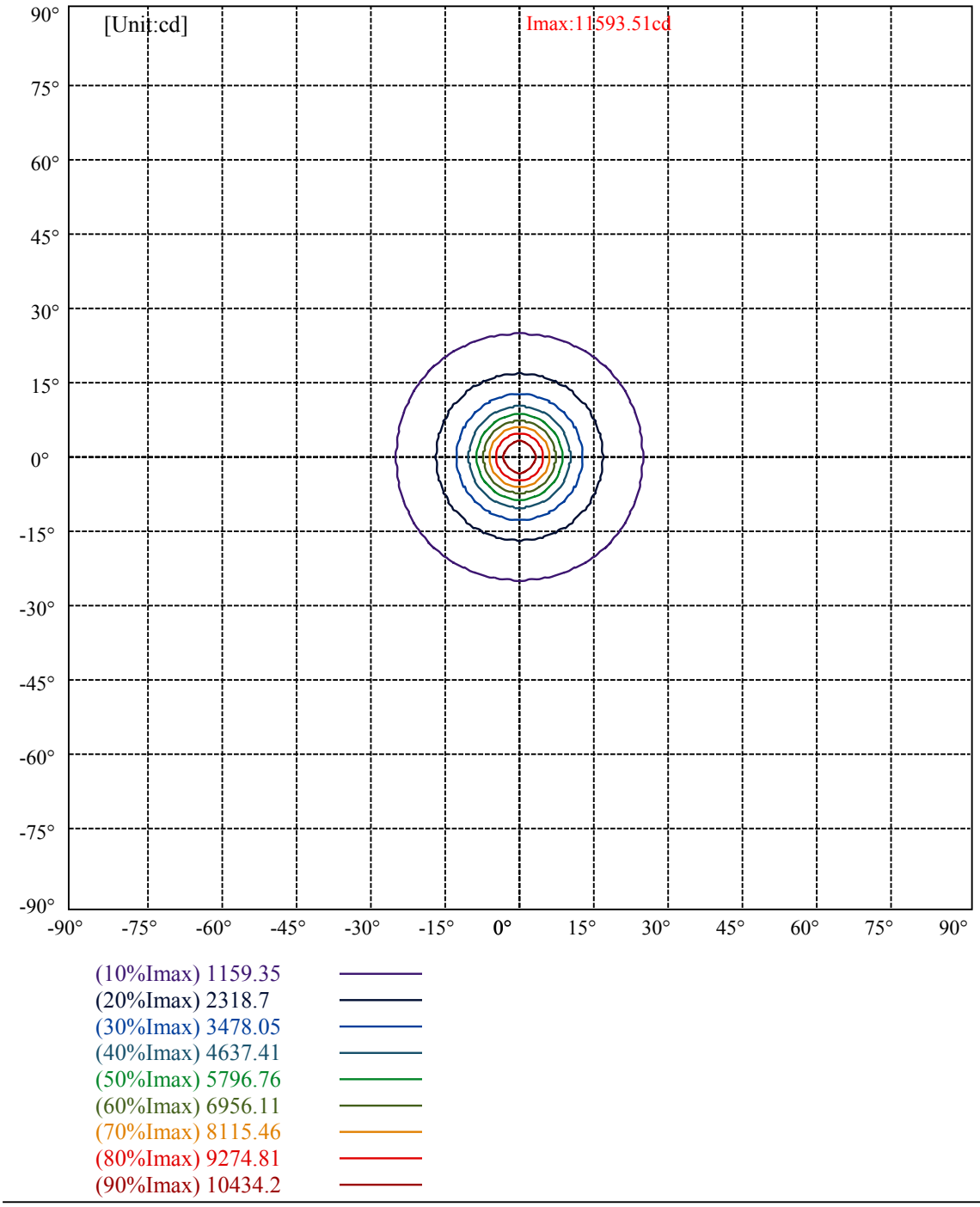
Beam Angle(50%Imax):C0/180Left:8.5 Right:8.5
:C90/270Left:8.5 Right:8.5

Lux distance Curve



Equipment: GMS1980 Date: 2024/4/21 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

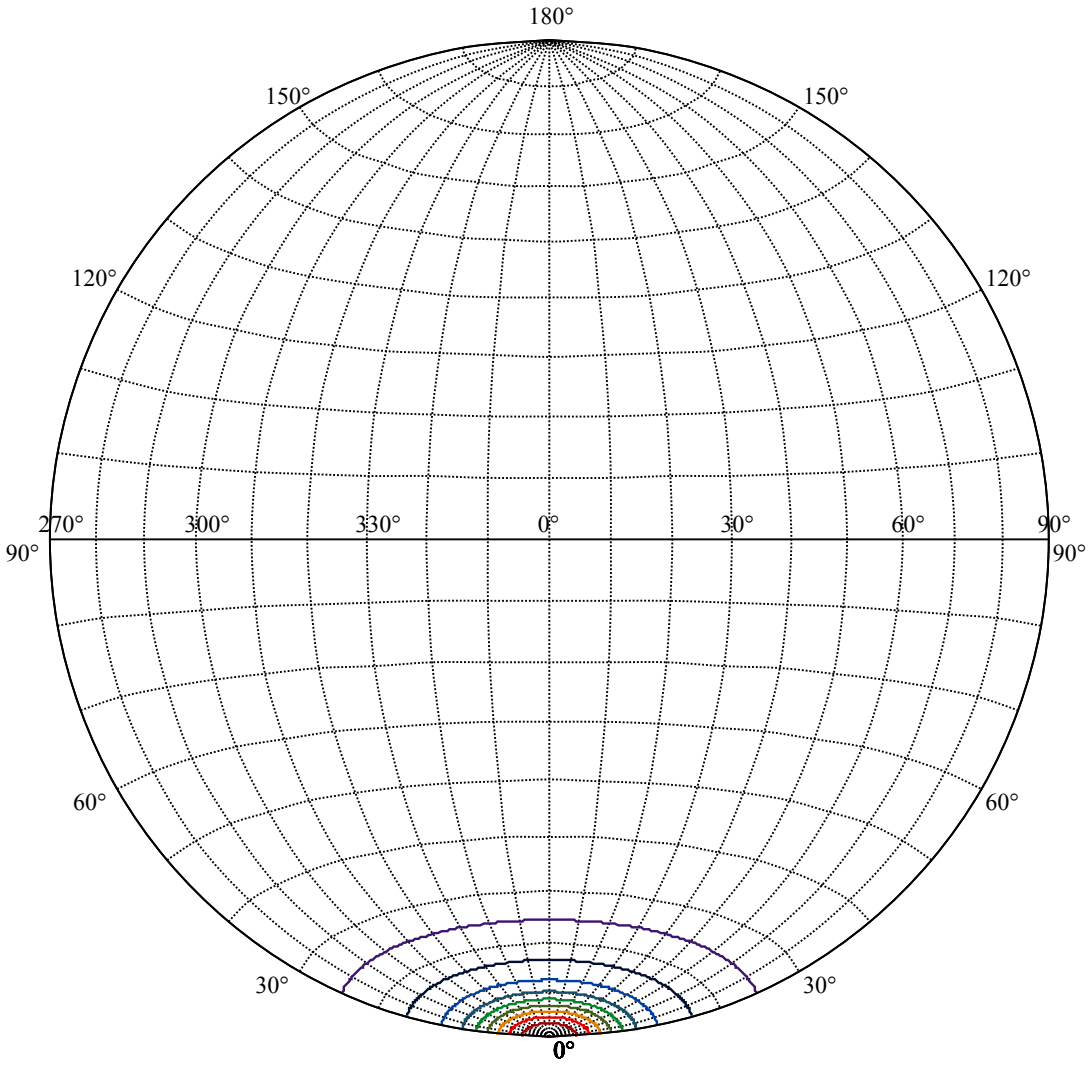


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/21
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



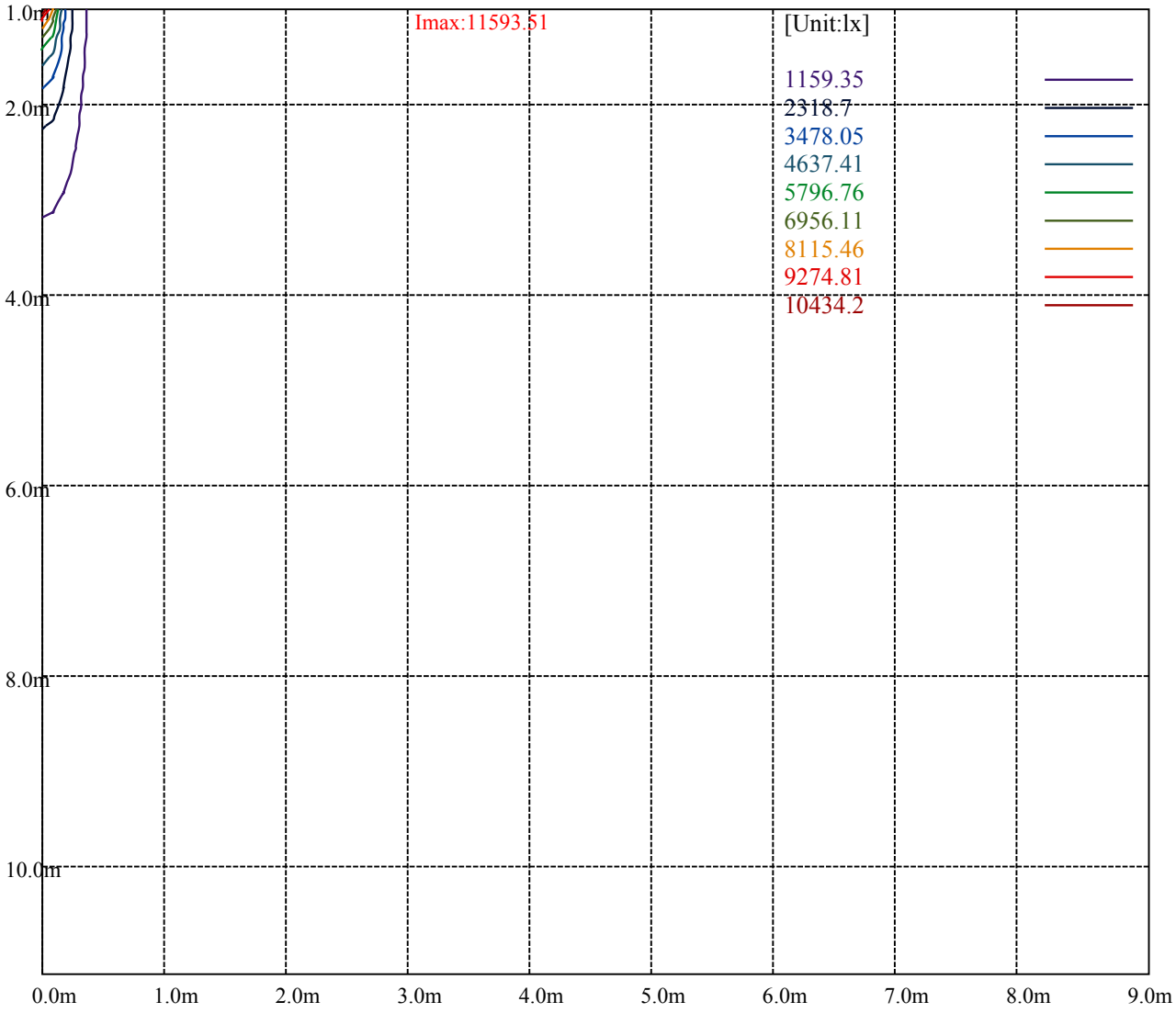
[Unit:cd]

Imax:11593.51

(10%Imax) 1159.35
(20%Imax) 2318.7
(30%Imax) 3478.05
(40%Imax) 4637.41
(50%Imax) 5796.76
(60%Imax) 6956.11
(70%Imax) 8115.46
(80%Imax) 9274.81
(90%Imax) 10434.2

Equipment: GMS1980	Date: 2024/4/21	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/21
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

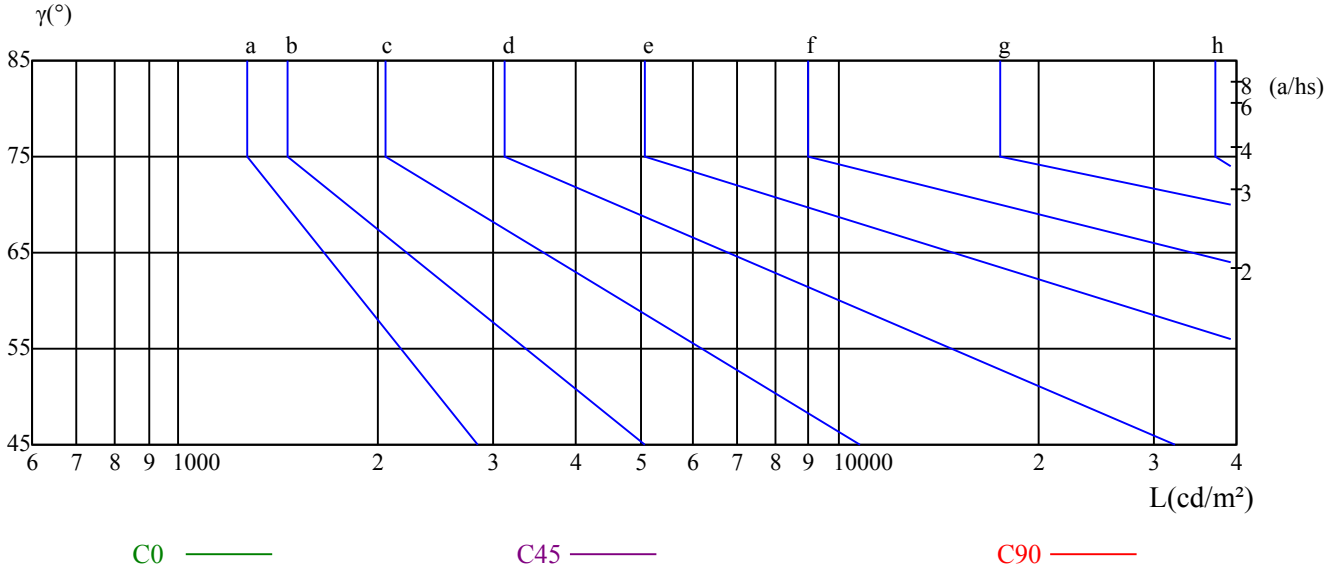
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

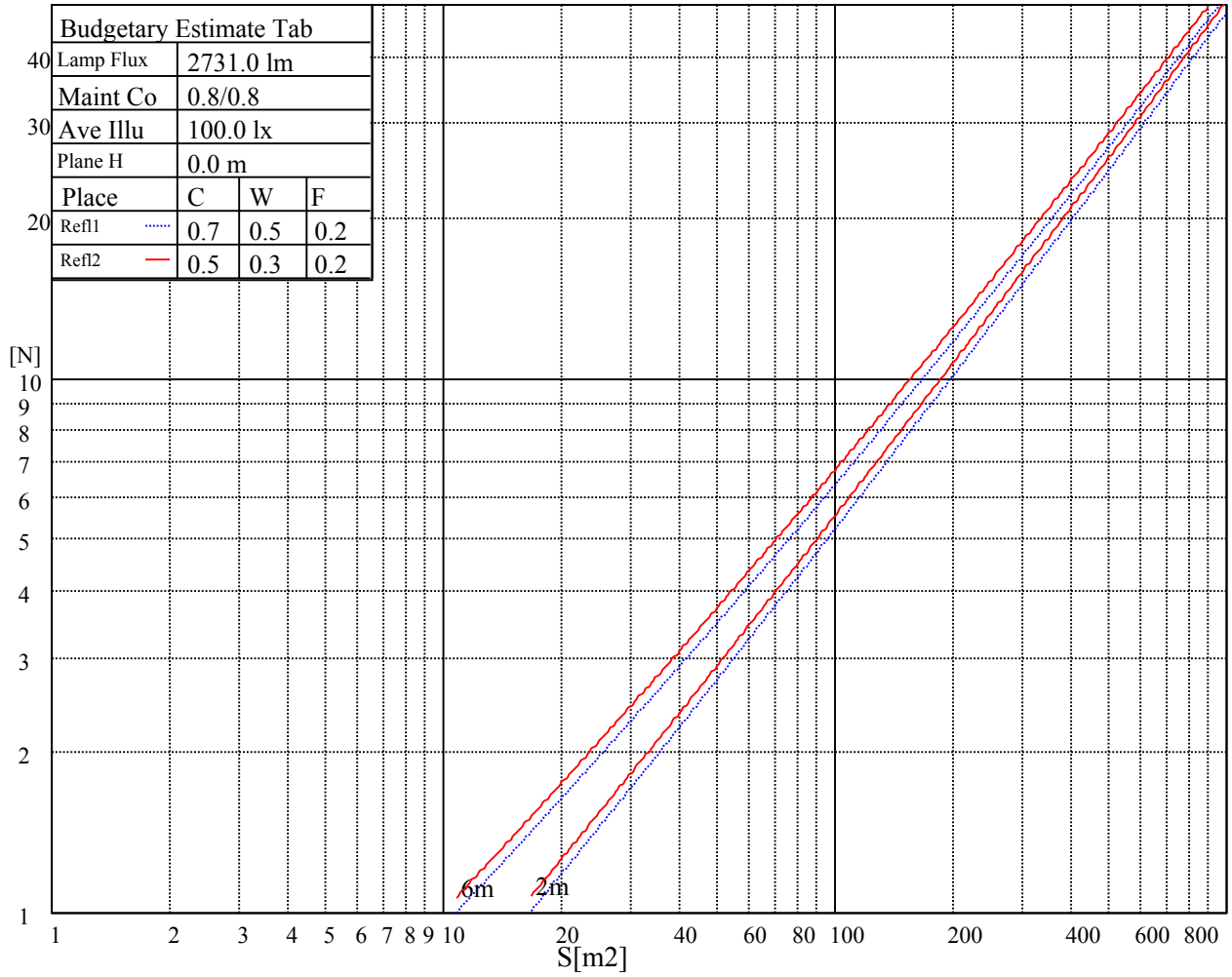
Luminance Limitting Curve



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

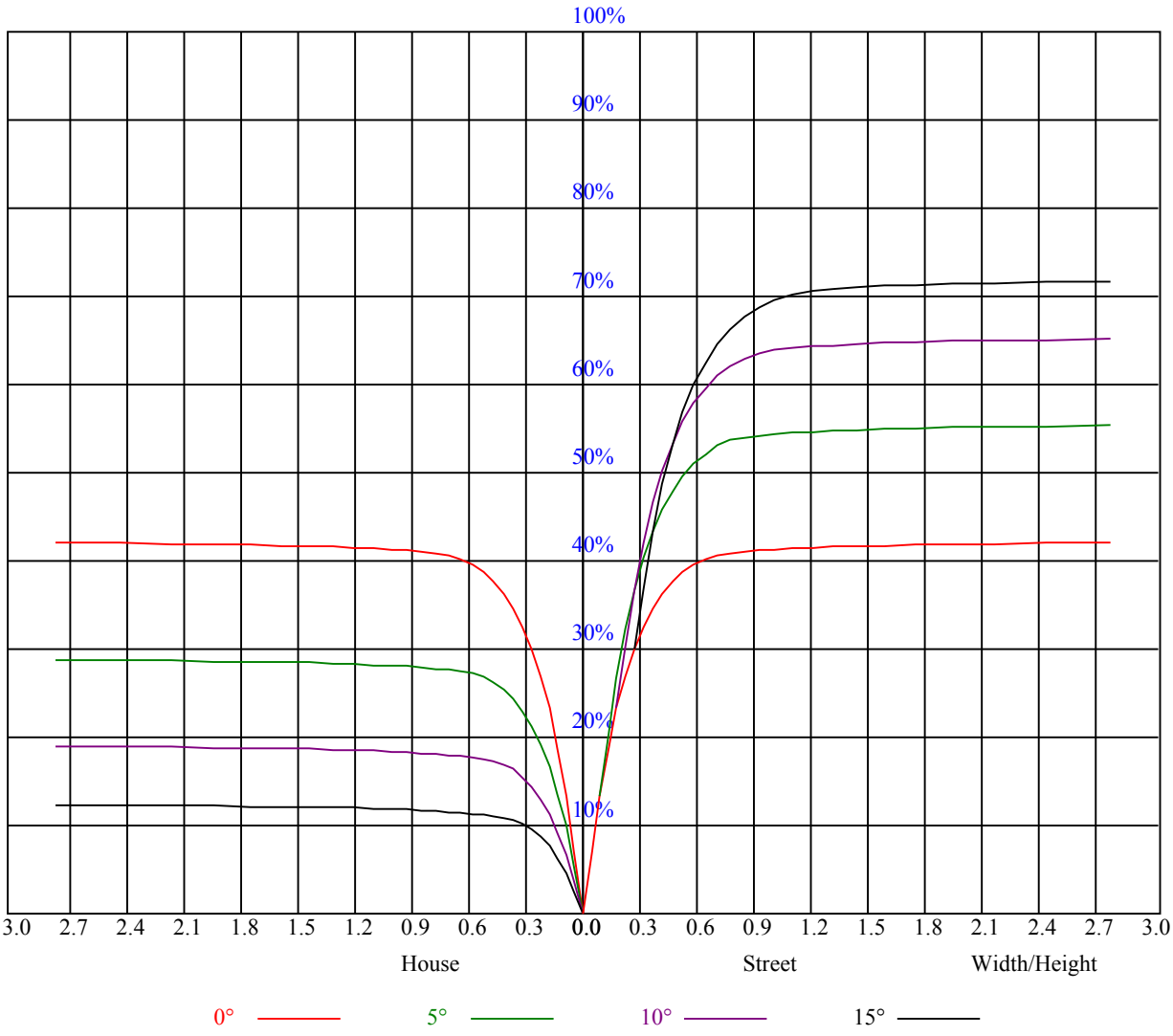


Equipment: GMS1980 Date: 2024/4/21 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Utilization factor table for indoor luminaire

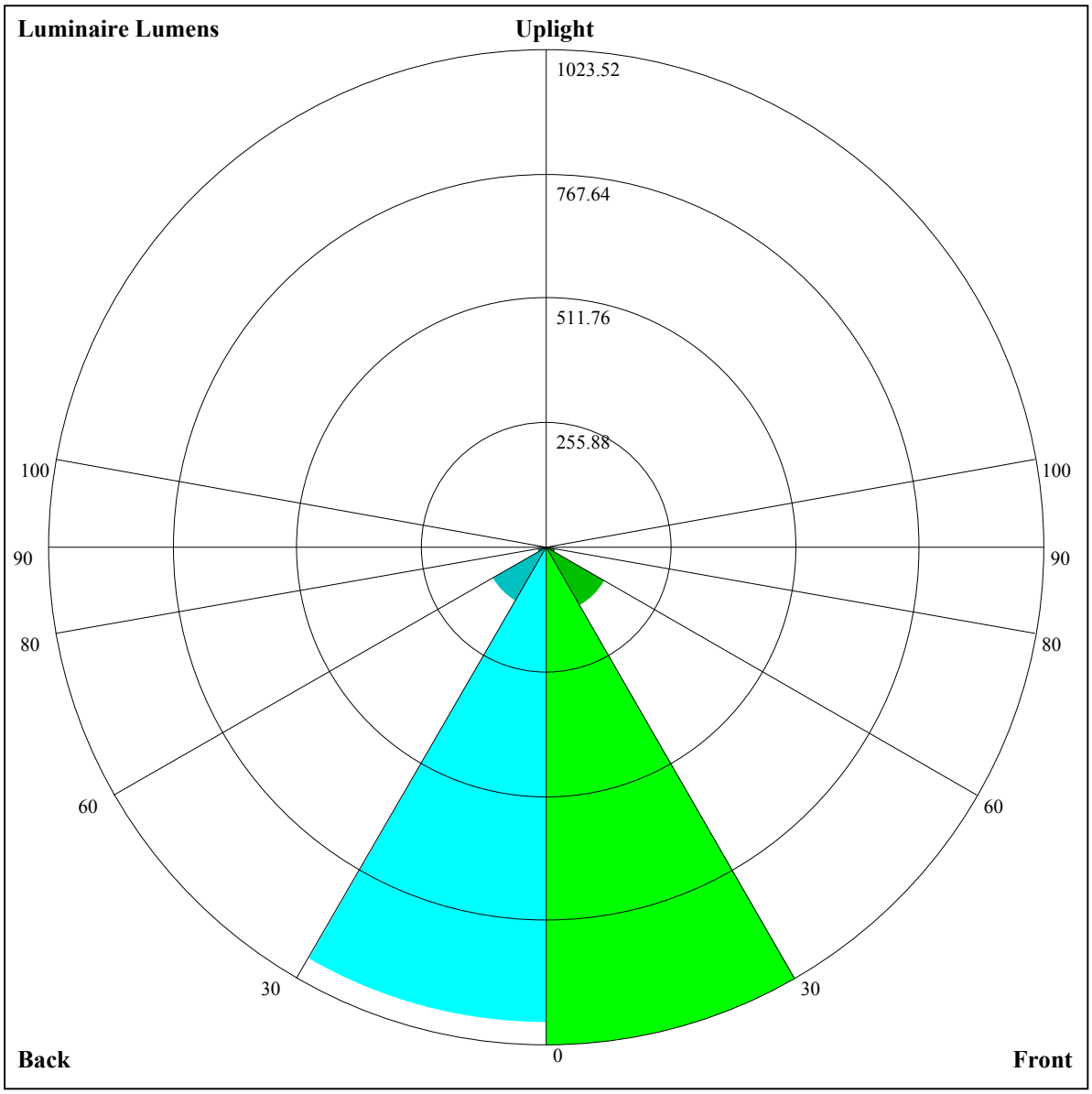
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.90	0.90	0.88	0.87	0.86	0.85	0.84	0.84	0.83	0.82	0.80
2	0.89	0.86	0.84	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.80	0.81	0.79	0.78	0.77
3	0.85	0.81	0.78	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.77	0.75	0.78	0.76	0.74	0.73
4	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.70
5	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.72	0.70	0.68	0.67
6	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	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	0.68	0.64	0.62	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	0.64	0.61	0.59	0.58
10	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.56

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/21	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

LCS Graph



Luminaire Lumens:
FL=1023.52,FM=138.94,FH=19.06,FVH=6.16
BL=978.86,BM=128.89,BH=19.14,BVH=6.17
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	11674.71	11604.49	11314.80	10833.16	10004.48	9198.63	8364.09	7483.92	6412.95
45.0	11456.42	11649.55	11591.61	11312.46	10825.55	10003.31	9208.57	8345.95	7253.34
90.0	11618.53	11411.36	11015.16	10446.91	9548.59	8707.04	7623.78	6751.21	5923.71
135.0	11624.38	11579.91	11227.01	10728.99	10059.49	9275.87	8186.19	7297.81	6443.39
180.0	11674.71	11674.71	11052.56	10479.04	9571.94	8764.33	7898.20	6768.71	5943.55
225.0	11456.42	11072.52	10343.33	9638.71	8824.67	7728.54	6846.61	5995.69	5232.56
270.0	11618.53	11545.96	11275.59	10813.85	10034.91	9277.05	8433.74	7291.38	6438.70
315.0	11624.38	11409.61	10998.19	10432.86	9524.60	8702.35	7820.42	6912.74	5834.75
360.0	11674.71	11604.49	11314.80	10833.16	10004.48	9198.63	8364.09	7483.92	6412.95

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5603.00	4897.22	4324.29	3765.98	3392.61	3011.04	2744.76	2514.77	2253.76
45.0	6393.06	5600.66	4911.27	4229.48	3781.78	3410.16	3093.56	2747.10	2511.26
90.0	5188.08	4444.26	3950.91	3561.15	3224.65	2874.10	2626.55	2412.94	2178.27
135.0	5656.84	4820.56	4279.81	3837.38	3392.61	3087.71	2818.50	2525.89	2319.89
180.0	5036.45	4433.66	3965.48	3567.53	3157.87	3017.42	3017.42	2423.48	2182.95
225.0	4455.38	3979.59	3586.32	3252.74	2897.51	2658.74	2390.12	2198.75	2026.11
270.0	5629.34	4924.73	4224.21	3778.27	3403.73	3012.21	2747.69	2515.94	2257.27
315.0	5080.40	4475.27	3987.20	3490.34	3162.61	2881.12	2576.80	2362.61	2169.49
360.0	5603.00	4897.22	4324.29	3765.98	3392.61	3011.04	2744.76	2514.77	2253.76

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2074.68	1914.91	1769.78	1607.09	1494.72	1385.29	1146.92	1146.92	1041.99
45.0	2256.10	2078.78	1921.35	1746.37	1620.55	1502.33	1395.23	1261.22	1152.37
90.0	2006.21	1856.39	1679.07	1549.15	1429.18	1145.11	1145.11	1064.47	957.66
135.0	2139.06	1938.91	1797.87	1663.85	1543.30	1398.16	1285.21	1174.02	1037.08
180.0	2016.16	1860.49	1718.28	1572.56	1457.27	1309.79	1209.13	1097.36	983.82
225.0	1830.06	1693.70	1572.56	1452.59	1147.74	1147.74	1093.79	996.17	915.17
270.0	2089.31	1918.43	1748.71	1628.74	1499.40	1395.23	1257.71	1145.34	1040.59
315.0	1955.30	1805.48	1672.63	1521.06	1411.04	1147.80	1147.80	1071.90	988.56
360.0	2074.68	1914.91	1769.78	1607.09	1494.72	1385.29	1146.92	1146.92	1041.99

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	968.43	899.49	855.72	788.36	684.13	586.34	485.68	361.96	267.51
45.0	1049.37	974.46	910.08	860.92	791.28	707.01	585.87	486.97	366.99
90.0	900.84	858.12	808.02	740.19	628.30	530.92	432.25	309.23	221.22
135.0	958.66	900.72	855.07	770.80	684.77	589.38	467.07	369.92	299.69
180.0	921.79	876.14	822.88	722.81	620.98	530.27	437.22	308.47	308.47
225.0	868.77	815.75	718.31	627.42	529.80	408.37	313.56	227.24	142.85
270.0	959.24	889.60	844.54	778.41	672.48	577.09	454.19	356.46	309.64
315.0	927.70	871.63	814.17	737.79	645.39	520.09	419.90	298.76	211.56
360.0	968.43	899.49	855.72	788.36	684.13	586.34	485.68	361.96	267.51

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	186.86	126.70	94.22	85.79	79.65	74.38	67.53	63.03	57.94
45.0	296.77	296.77	115.99	94.86	86.20	78.89	73.45	68.06	63.73
90.0	151.57	102.94	92.06	83.57	78.24	73.04	67.77	62.21	58.46
135.0	299.69	118.39	93.69	83.98	78.71	74.03	68.94	63.67	59.52
180.0	205.82	104.11	86.67	80.29	74.09	69.41	64.49	59.52	56.06
225.0	103.06	89.01	81.64	75.14	69.88	64.84	60.63	55.89	52.49
270.0	309.64	111.78	91.65	84.16	78.48	72.28	66.89	62.56	58.05
315.0	142.91	94.86	84.68	78.13	73.39	67.42	62.74	58.64	54.37
360.0	186.86	126.70	94.22	85.79	79.65	74.38	67.53	63.03	57.94

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	54.25	50.74	47.11	44.71	42.49	40.20	38.62	37.69	36.64
45.0	58.46	54.89	51.56	48.46	45.35	42.84	41.02	38.92	37.86
90.0	54.78	51.56	47.93	45.41	43.25	41.67	39.74	38.68	37.45
135.0	56.24	52.96	49.33	46.94	44.71	42.66	41.02	39.85	38.62
180.0	52.67	49.74	46.58	44.59	42.60	41.08	39.27	38.22	37.28
225.0	49.74	46.35	44.18	41.79	40.38	38.98	37.51	36.58	35.82
270.0	53.78	50.68	47.29	44.95	42.78	40.79	39.15	38.10	37.04
315.0	50.97	48.22	45.59	42.96	41.14	39.80	38.04	37.04	36.05
360.0	54.25	50.74	47.11	44.71	42.49	40.20	38.62	37.69	36.64

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	35.82	34.76	34.12	33.12	31.95	30.61	29.20	27.33	25.81
45.0	36.69	35.87	35.00	34.24	32.89	31.89	30.67	29.20	27.39
90.0	36.64	35.93	34.76	33.42	32.36	30.84	29.32	27.39	26.04
135.0	37.86	36.93	36.11	34.94	34.06	32.66	30.84	29.14	27.39
180.0	36.46	35.58	34.76	33.65	32.60	30.84	29.50	27.56	26.10
225.0	35.11	34.00	33.07	32.25	30.67	29.20	27.27	25.93	24.17
270.0	35.99	35.05	34.35	33.42	32.19	30.90	29.67	27.74	26.22
315.0	35.46	34.41	33.77	32.48	31.31	29.90	28.32	26.57	25.28
360.0	35.82	34.76	34.12	33.12	31.95	30.61	29.20	27.33	25.81

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	24.40	22.47	21.24	19.72	18.67	17.67	16.97	16.44	15.86
45.0	25.69	24.29	22.59	21.01	19.61	18.55	17.62	16.97	16.27
90.0	24.35	22.65	21.19	20.01	18.79	17.91	17.38	16.68	16.27
135.0	25.46	23.70	22.53	20.60	19.72	18.49	17.91	17.32	16.91
180.0	23.76	22.47	20.89	19.78	18.49	17.67	17.09	16.50	15.98
225.0	22.30	20.89	19.43	18.43	17.62	16.80	16.27	15.86	15.45
270.0	24.64	22.65	21.30	19.78	18.84	17.79	17.26	16.56	16.09
315.0	23.00	21.89	20.25	19.37	18.32	17.26	16.74	16.21	15.86
360.0	24.40	22.47	21.24	19.72	18.67	17.67	16.97	16.44	15.86

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.45	15.10	14.75	14.28	13.99	13.52	13.17	12.93	12.52
45.0	15.80	15.39	15.04	14.57	14.22	13.93	13.64	13.23	12.87
90.0	15.92	16.21	16.80	17.38	17.97	18.08	17.97	17.21	15.68
135.0	16.44	16.27	16.50	16.85	17.44	17.73	17.73	17.56	16.68
180.0	15.57	15.16	14.86	14.63	14.75	14.98	15.16	15.27	14.22
225.0	14.98	14.57	14.28	13.93	13.52	13.17	12.87	12.47	12.11
270.0	15.80	15.51	15.80	16.15	16.39	16.50	16.56	16.50	15.51
315.0	15.45	15.22	15.39	15.68	15.98	15.98	15.74	14.75	13.58
360.0	15.45	15.10	14.75	14.28	13.99	13.52	13.17	12.93	12.52

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.23	11.94	11.70	11.35	11.06	10.83	10.48	10.24	10.01
45.0	12.58	12.29	11.94	11.59	11.24	11.00	10.65	10.36	10.07
90.0	14.10	12.35	11.65	11.41	11.00	10.59	10.36	10.07	9.83
135.0	15.04	12.93	11.76	11.41	11.12	10.71	10.36	10.12	9.95
180.0	12.47	11.65	11.35	11.12	10.83	10.48	10.24	9.95	9.83
225.0	11.76	11.47	11.24	10.94	10.53	10.30	10.07	9.83	9.89
270.0	13.87	12.41	11.59	11.29	11.06	10.59	10.36	10.12	9.83
315.0	12.52	11.76	11.47	11.18	11.06	10.48	10.24	9.95	9.77
360.0	12.23	11.94	11.70	11.35	11.06	10.83	10.48	10.24	10.01

Intensity data(cd)

C/γ(°)	90.0
0.0	9.83
45.0	9.83
90.0	9.83
135.0	9.83
180.0	9.83
225.0	9.83
270.0	9.89
315.0	9.83
360.0	9.83