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NATA

LumCAT: 2-1572-A
Luminaire: 92.70.188.00+92.70.147.00

Report No: NATA0100	Voltage(V): 34.9000
Test No: GC2019011703	Current(A): 0.3000
LampCAT: NICHIA NFCWL036B-V3	Power (W): 10.4700
Lamp flux(lm): 1304.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 64	Width(mm): 64
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1071.49
Efficiency(%): 82.17%
Lumens(lm)/Power(W): 102.39
Central intensity(cd): 2495.391
Maximum intensity(cd): 2495.391
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=34.2
[C90/270]Total=34.2
Field angle(10%Imax): [C0/180]Total=63.8
[C90/270]Total=63.8
Maximum s/h(1/2): C0_180=0.57 C90_270=0.57
Maximum s/h(1/4): C0_180=0.56 C90_270=0.56
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.21%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.381%

Equipment: GMS1980	Date: 2019/1/17	Operator: NT07
Temperature(°C): 10.0	Humidity(%): 65.0%	Distance(m): 7.50

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2495.391	0.597	0.597	.046%	.056%
1.0	2490.258	4.766	5.363	.365%	.501%
2.0	2472.258	9.462	14.825	.726%	1.384%
3.0	2443.008	14.021	28.846	1.075%	2.692%
4.0	2402.859	18.381	47.226	1.410%	4.408%
5.0	2350.125	22.461	69.688	1.723%	6.504%
6.0	2288.742	26.235	95.923	2.012%	8.952%
7.0	2218.852	29.653	125.576	2.274%	11.720%
8.0	2144.813	32.734	158.31	2.510%	14.775%
9.0	2059.523	35.331	193.641	2.709%	18.072%
10.0	1970.086	37.515	231.156	2.877%	21.573%
11.0	1882.758	39.395	270.551	3.021%	25.250%
12.0	1786.781	40.738	311.289	3.124%	29.052%
13.0	1687.148	41.619	352.909	3.192%	32.936%
14.0	1585.195	42.054	394.963	3.225%	36.861%
15.0	1485.070	42.150	437.113	3.232%	40.795%
16.0	1379.180	41.688	478.801	3.197%	44.685%
17.0	1260.879	40.426	519.227	3.100%	48.458%
18.0	1148.048	38.904	558.131	2.983%	52.089%
19.0	1056.684	37.726	595.856	2.893%	55.610%
20.0	944.782	35.435	631.292	2.717%	58.917%
21.0	834.757	32.805	664.097	2.516%	61.979%
22.0	738.520	30.338	694.435	2.327%	64.810%
23.0	648.499	27.787	722.222	2.131%	67.403%
24.0	563.435	25.131	747.353	1.927%	69.749%
25.0	495.478	22.963	770.315	1.761%	71.892%
26.0	441.998	21.248	791.563	1.629%	73.875%
27.0	394.270	19.629	811.192	1.505%	75.707%
28.0	355.613	18.308	829.5	1.404%	77.416%
29.0	323.515	17.200	846.699	1.319%	79.021%
30.0	295.320	16.192	862.892	1.242%	80.532%
31.0	271.589	15.339	878.231	1.176%	81.964%
32.0	247.057	14.357	892.588	1.101%	83.303%
33.0	225.021	13.440	906.027	1.031%	84.558%
34.0	207.091	12.699	918.727	.974%	85.743%
35.0	190.223	11.965	930.692	.918%	86.860%
36.0	174.206	11.229	941.92	.861%	87.908%
37.0	160.819	10.613	952.534	.814%	88.898%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	146.454	9.888	962.421	.758%	89.821%
39.0	131.484	9.074	971.495	.696%	90.668%
40.0	118.666	8.365	979.86	.641%	91.448%
41.0	106.242	7.643	987.503	.586%	92.162%
42.0	94.971	6.969	994.472	.534%	92.812%
43.0	84.073	6.288	1000.76	.482%	93.399%
44.0	74.109	5.645	1006.405	.433%	93.926%
45.0	65.278	5.062	1011.467	.388%	94.398%
46.0	57.980	4.574	1016.041	.351%	94.825%
47.0	50.843	4.078	1020.118	.313%	95.206%
48.0	45.127	3.678	1023.796	.282%	95.549%
49.0	39.734	3.288	1027.084	.252%	95.856%
50.0	34.580	2.905	1029.989	.223%	96.127%
51.0	30.326	2.584	1032.574	.198%	96.368%
52.0	26.374	2.279	1034.853	.175%	96.581%
53.0	21.867	1.915	1036.768	.147%	96.759%
54.0	17.536	1.556	1038.324	.119%	96.905%
55.0	14.013	1.259	1039.582	.097%	97.022%
56.0	11.039	1.004	1040.586	.077%	97.116%
57.0	9.570	0.880	1041.466	.067%	97.198%
58.0	8.986	0.836	1042.302	.064%	97.276%
59.0	8.845	0.831	1043.133	.064%	97.354%
60.0	8.782	0.834	1043.967	.064%	97.431%
61.0	8.754	0.840	1044.807	.064%	97.510%
62.0	8.768	0.849	1045.656	.065%	97.589%
63.0	8.789	0.859	1046.515	.066%	97.669%
64.0	8.810	0.868	1047.383	.067%	97.750%
65.0	8.888	0.883	1048.266	.068%	97.833%
66.0	8.895	0.891	1049.157	.068%	97.916%
67.0	8.937	0.902	1050.059	.069%	98.000%
68.0	8.993	0.914	1050.974	.070%	98.085%
69.0	9.035	0.925	1051.899	.071%	98.172%
70.0	9.091	0.937	1052.836	.072%	98.259%
71.0	9.134	0.947	1053.783	.073%	98.347%
72.0	9.197	0.959	1054.742	.074%	98.437%
73.0	9.274	0.973	1055.714	.075%	98.528%
74.0	9.359	0.987	1056.701	.076%	98.620%
75.0	9.457	1.002	1057.703	.077%	98.713%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.548	1.016	1058.719	.078%	98.808%
77.0	9.703	1.037	1059.755	.080%	98.905%
78.0	9.977	1.070	1060.826	.082%	99.005%
79.0	10.603	1.141	1061.967	.088%	99.111%
80.0	10.863	1.173	1063.14	.090%	99.221%
81.0	10.392	1.126	1064.266	.086%	99.326%
82.0	10.174	1.105	1065.371	.085%	99.429%
83.0	10.055	1.094	1066.465	.084%	99.531%
84.0	9.984	1.089	1067.554	.084%	99.633%
85.0	9.865	1.078	1068.632	.083%	99.733%
86.0	7.988	0.874	1069.505	.067%	99.815%
87.0	6.462	0.708	1070.213	.054%	99.881%
88.0	5.034	0.552	1070.765	.042%	99.932%
89.0	4.423	0.485	1071.25	.037%	99.978%
90.0	4.388	0.241	1071.49	.018%	100.000%

Zonal flux distribution table

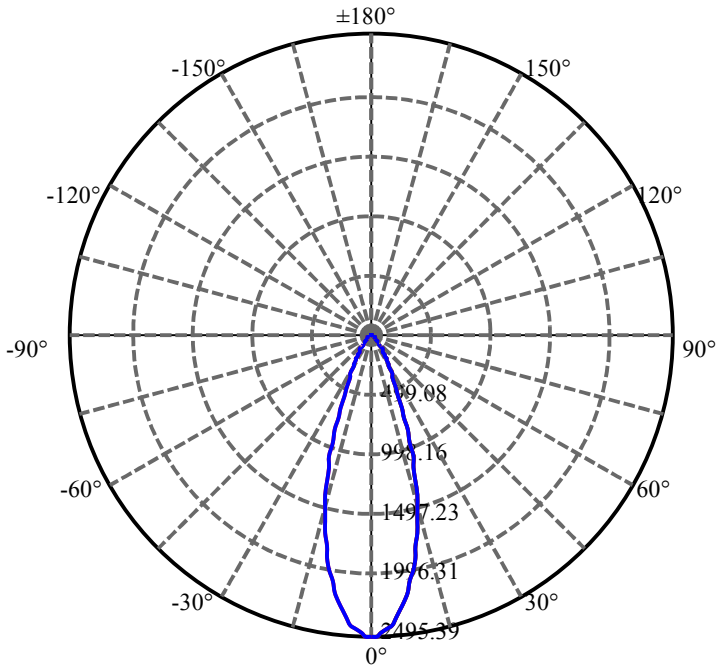
ZONAL LUMEN SUMMARY

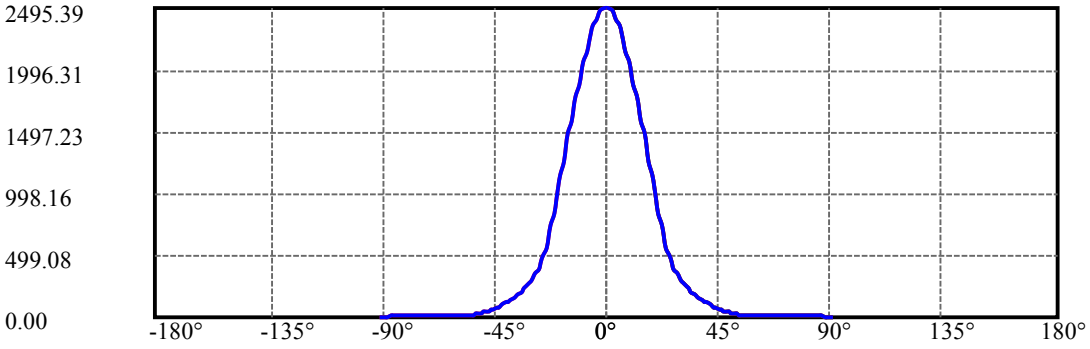
Zone	Lumens	%Lamp	%Fixt
0-30	862.89	66.17%	80.53%
0-40	979.86	75.14%	91.45%
0-60	1043.97	80.06%	97.43%
0-90	1071.25	82.15%	99.98%
0-120	1071.25	82.15%	99.98%
0-180	1071.49	82.17%	100.00%
60-90	28.12	2.16%	2.62%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.65	857.19	65.74%	80.00%

ZONAL LUMEN SUMMARY

0-10	231.16
10-20	400.14
20-30	231.60
30-40	116.97
40-50	50.13
50-60	13.98
60-70	8.87
70-80	10.30
80-90	8.11
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):

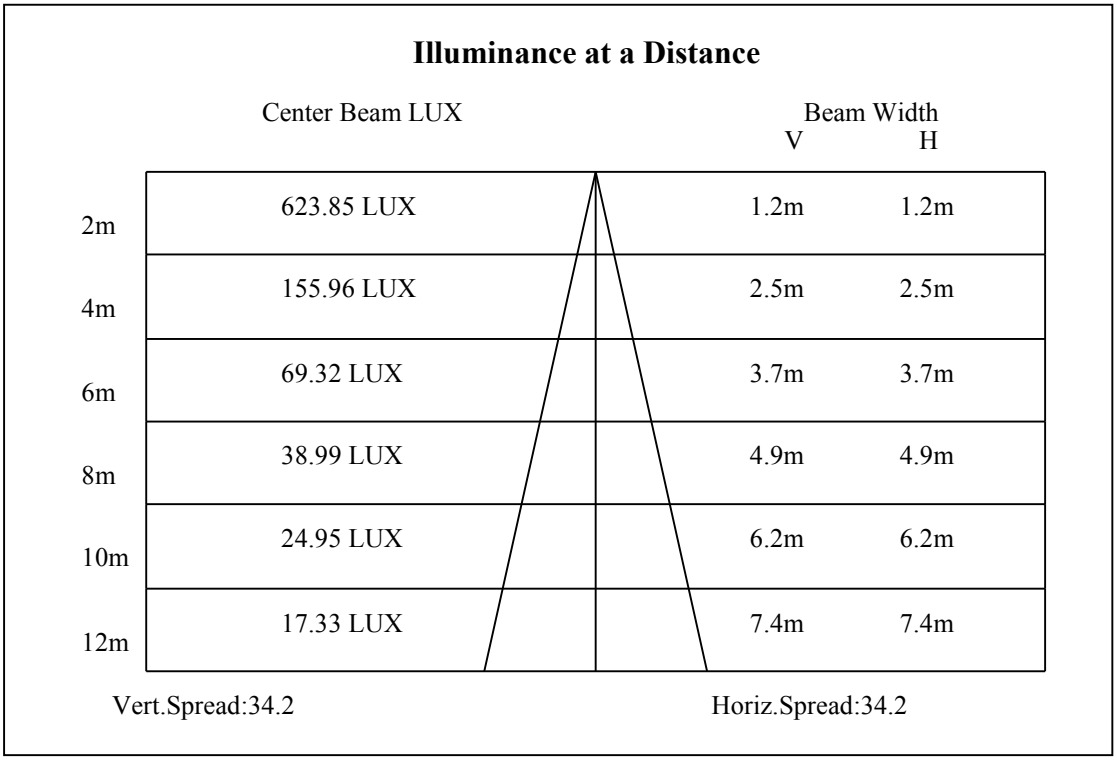
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:31.9 Right:31.9
:C90/270Left:31.9 Right:31.9

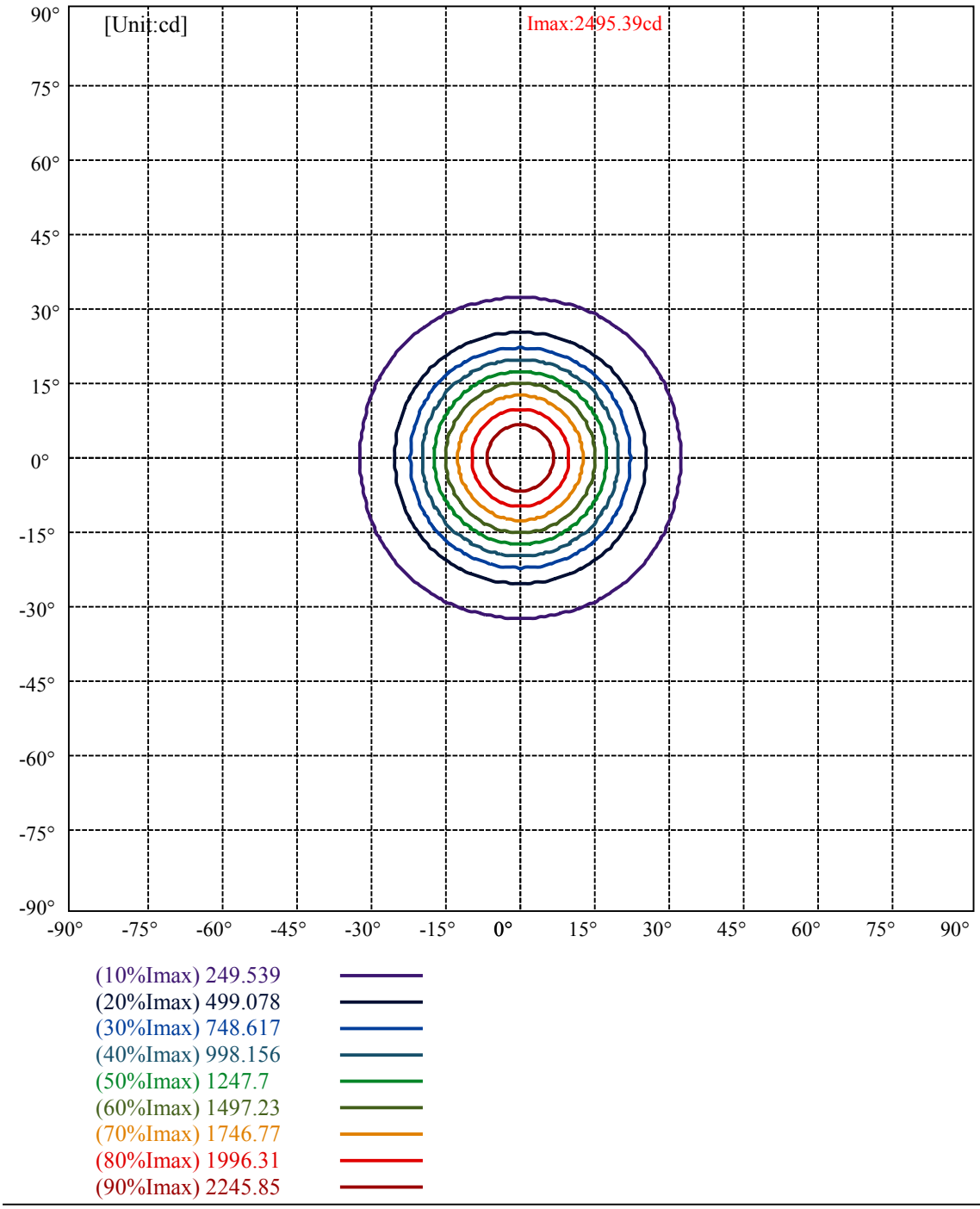
Beam Angle(50%Imax):C0/180Left:17.1 Right:17.1
:C90/270Left:17.1 Right:17.1

Lux distance Curve



Equipment: GMS1980 Date: 2019/1/17 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

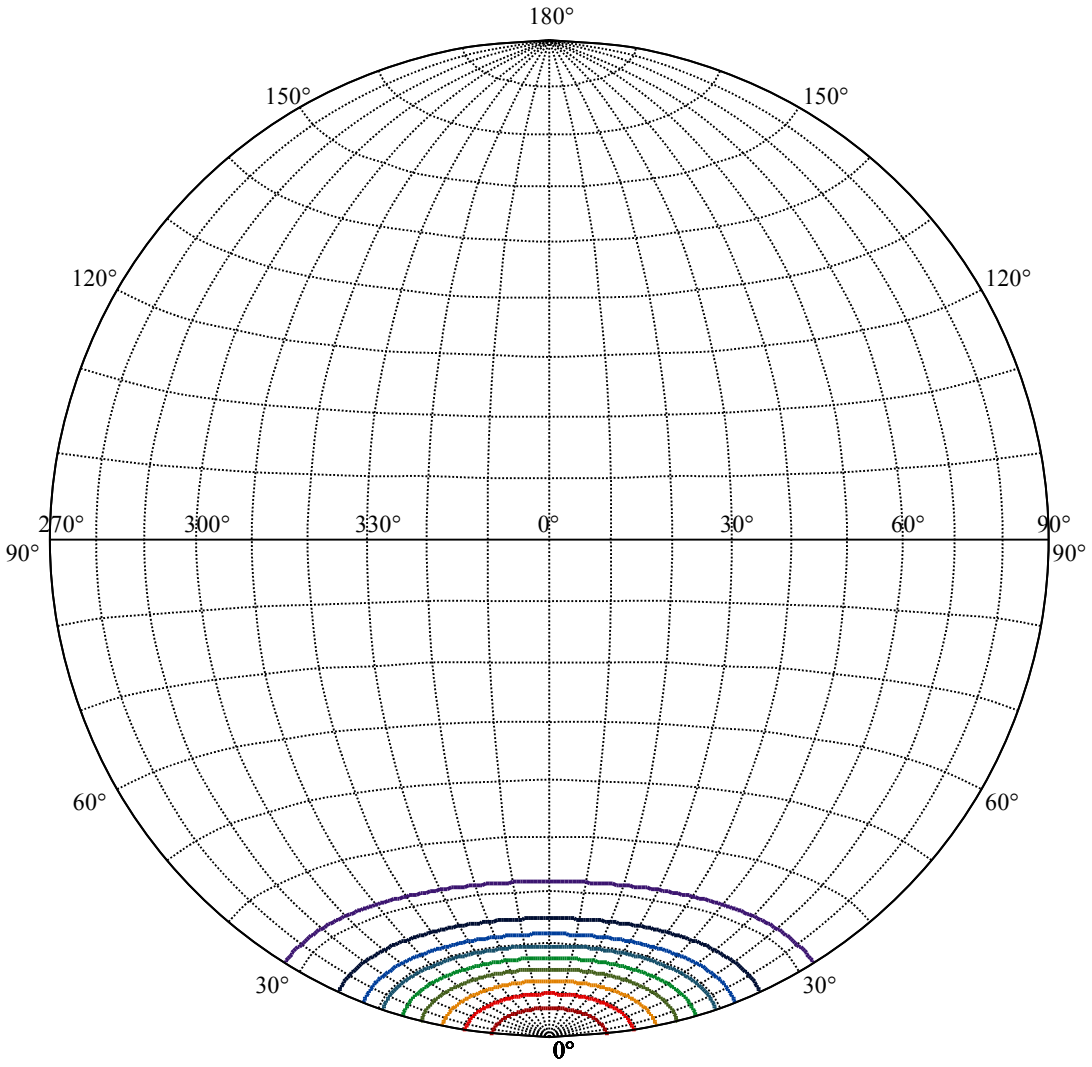


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/17
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



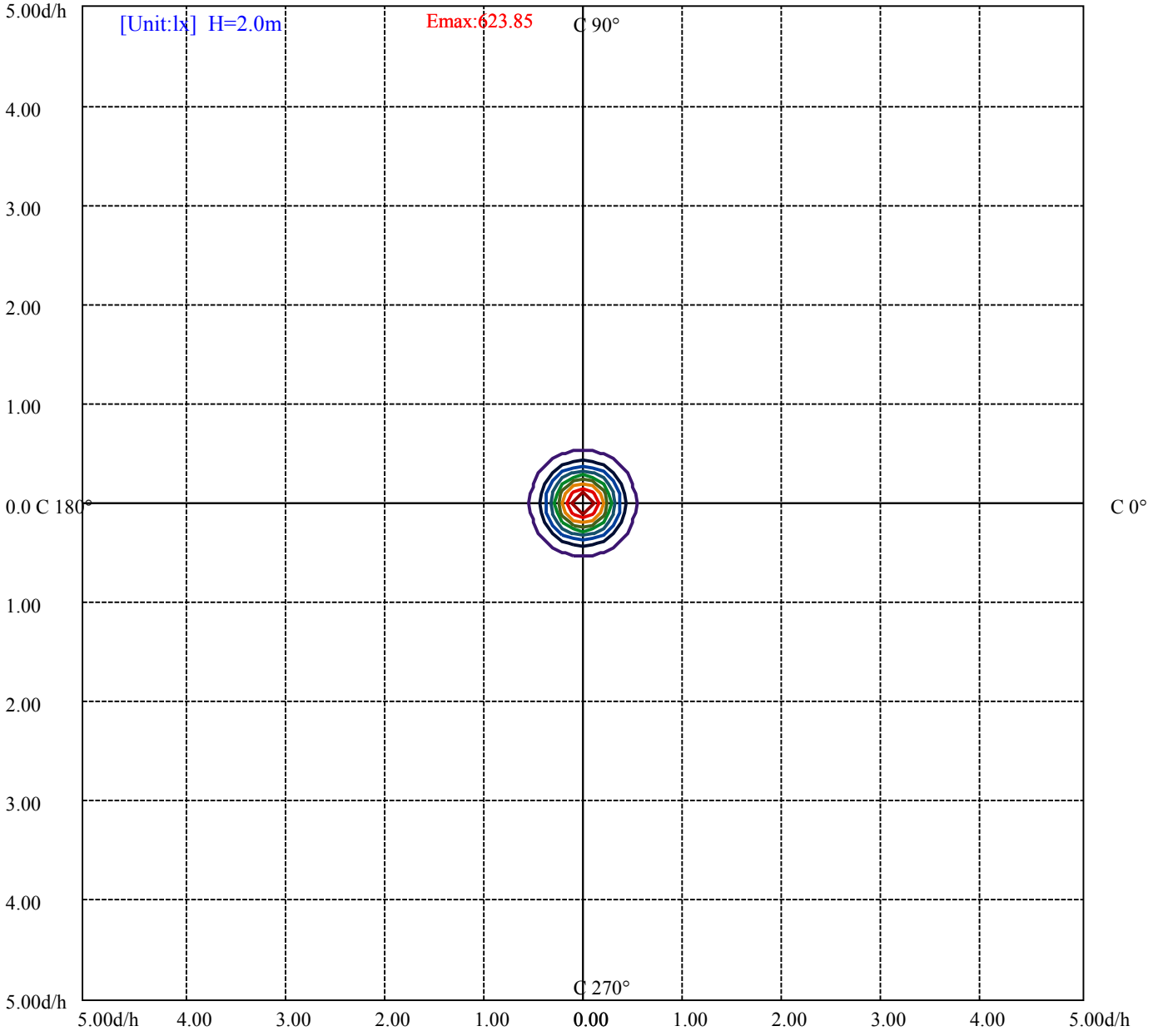
House [Unit:cd] Road

Imax:2495.39

(10%Imax) 249.539
(20%Imax) 499.078
(30%Imax) 748.617
(40%Imax) 998.156
(50%Imax) 1247.7
(60%Imax) 1497.23
(70%Imax) 1746.77
(80%Imax) 1996.31
(90%Imax) 2245.85

Equipment: GMS1980 Date: 2019/1/17 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO illuminance diagram

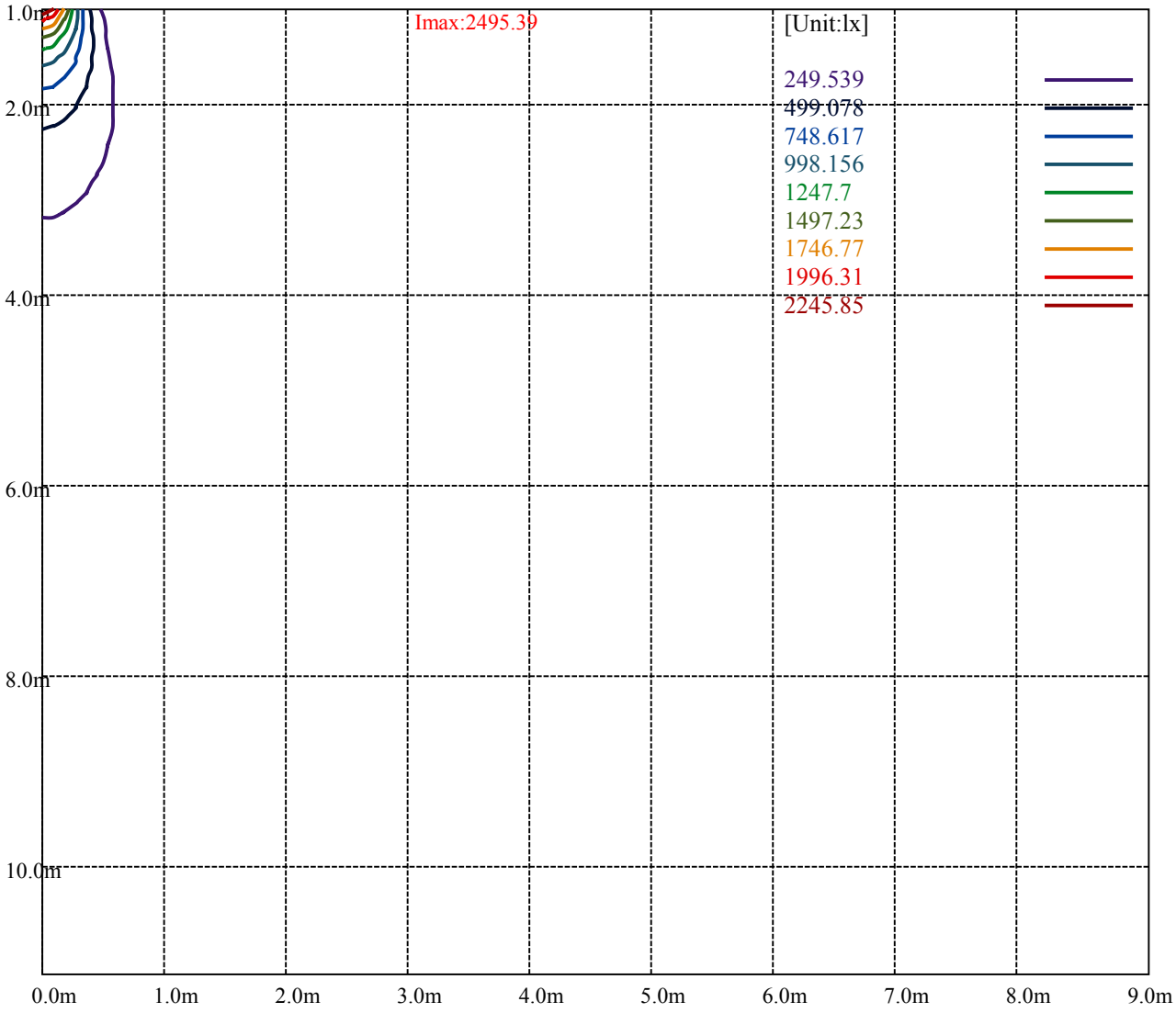


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/17
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/17
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

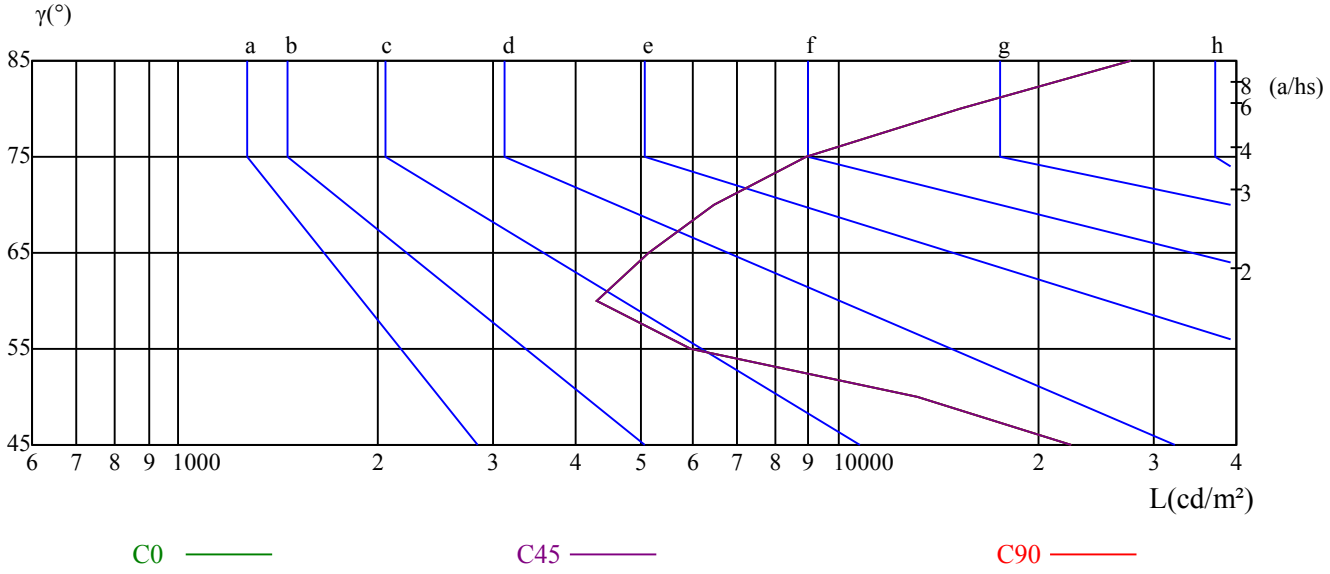
γ	45	50	55	60	65	70	75	80	85
C0	22538	13134	5965	4288	5134	6490	8921	15273	27633
C45	22538	13134	5965	4288	5134	6490	8921	15273	27633
C90	22538	13134	5965	4288	5134	6490	8921	15273	27633

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5134	5134	5134	8921	8921	8921	27633	27633	27633

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

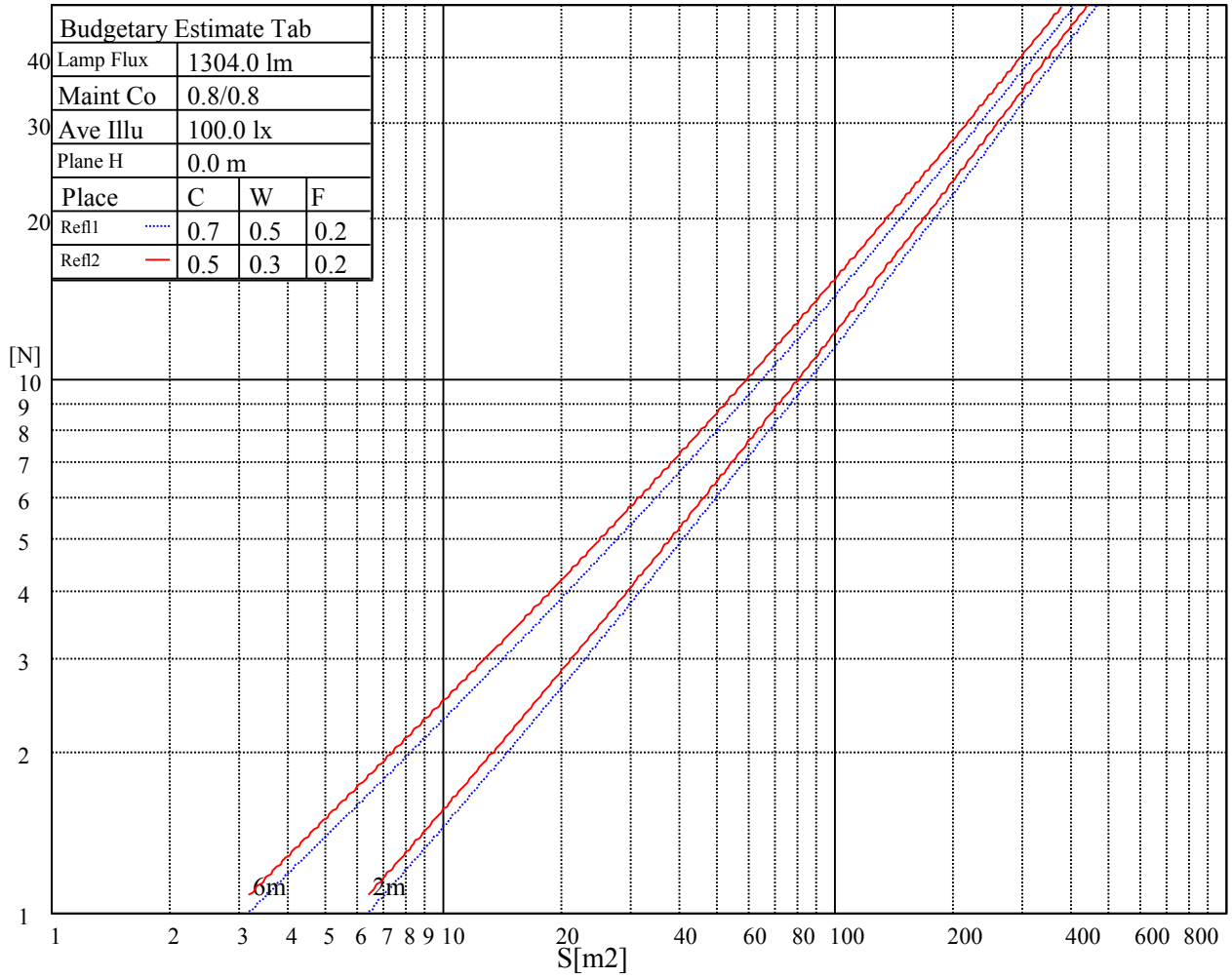


UGR Glare

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	9.01	10.02	9.38	10.33	10.64	8.72	9.73	9.08	10.04	10.35
	3H	11.72	12.61	12.11	12.95	13.32	11.30	12.18	11.68	12.52	12.89
	4H	13.49	14.31	13.90	14.67	15.06	13.05	13.87	13.46	14.23	14.62
	6H	15.76	16.52	16.18	16.89	17.29	15.25	16.00	15.67	16.38	16.78
	8H	16.94	17.65	17.37	18.04	18.45	16.44	17.15	16.88	17.55	17.96
	12H	18.69	19.37	19.12	19.75	20.18	18.30	18.98	18.73	19.36	19.79
4H	2H	9.53	10.36	9.94	10.71	11.10	9.30	10.13	9.71	10.48	10.87
	3H	12.69	13.36	13.10	13.77	14.18	12.34	13.02	12.76	13.43	13.84
	4H	14.70	15.31	15.14	15.73	16.18	14.35	14.95	14.79	15.38	15.83
	6H	16.86	17.39	17.33	17.84	18.31	16.44	16.96	16.91	17.41	17.89
	8H	18.28	18.77	18.76	19.22	19.70	17.87	18.36	18.34	18.81	19.28
	12H	20.02	20.45	20.51	20.93	21.41	19.69	20.12	20.19	20.61	21.08
8H	4H	15.50	15.99	15.98	16.44	16.92	15.24	15.73	15.72	16.18	16.65
	6H	18.10	18.49	18.61	18.99	19.48	17.78	18.17	18.28	18.67	19.15
	8H	19.65	20.00	20.18	20.52	21.02	19.32	19.67	19.86	20.19	20.69
	12H	21.43	21.73	21.95	22.23	22.81	21.16	21.47	21.68	21.96	22.54
12H	4H	15.78	16.21	16.27	16.69	17.17	15.56	15.99	16.05	16.47	16.95
	6H	18.80	18.85	19.03	19.32	19.87	18.53	18.57	18.76	19.04	19.59
	8H	20.15	20.45	20.67	20.95	21.53	19.88	20.18	20.40	20.68	21.26

Variation with the observer position at spacings:		
S = 1.0H	2.5/-3.3	2.5/-3.3
S = 1.5H	3.4/-2.6	3.4/-2.6
S = 2.0H	4.0/-2.0	4.0/-2.0
Standard tables:	BKBF	BKBF
Uncorrected UGR	4.8	4.8

Budgetary Estimate Table

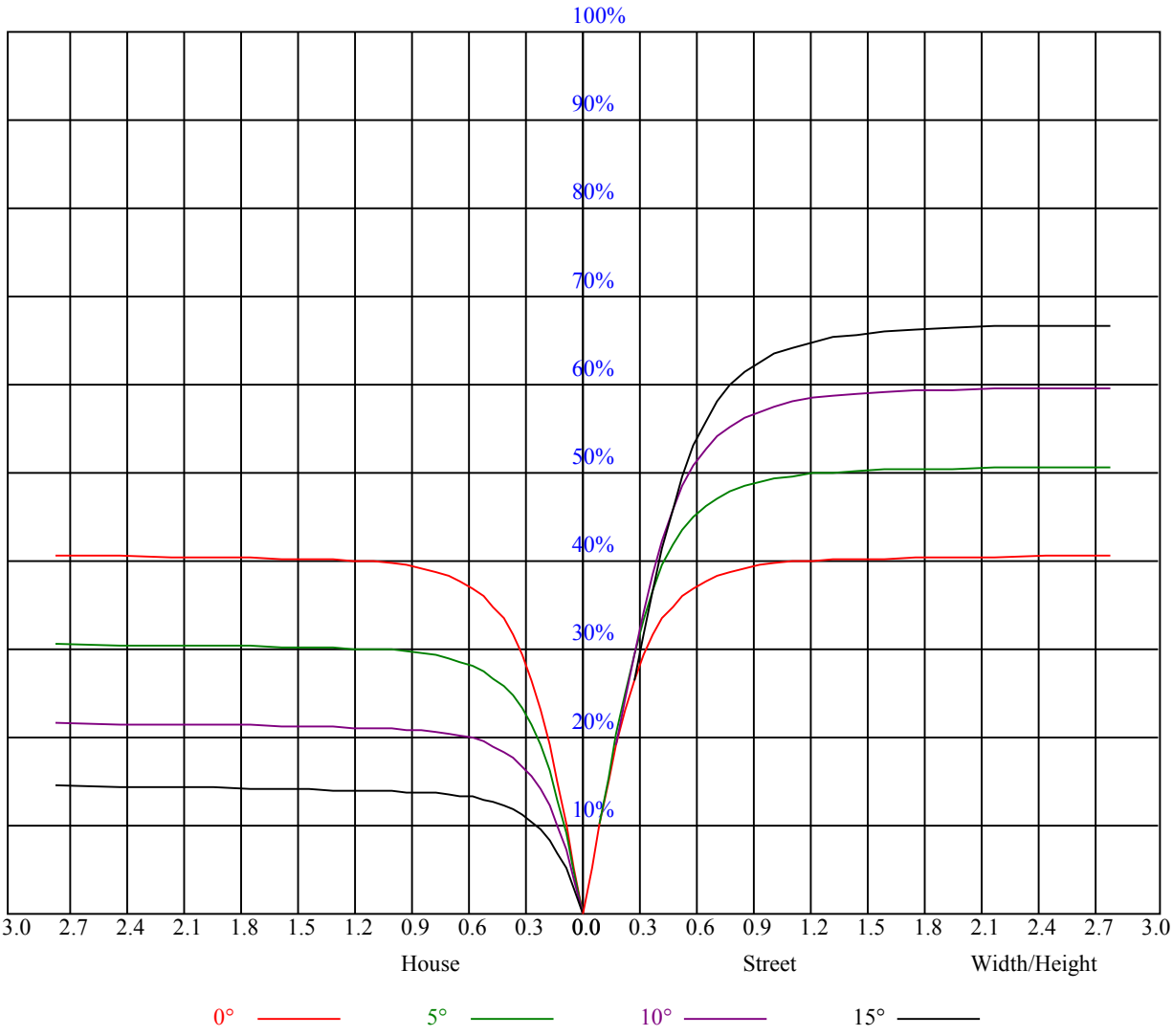


Equipment: GMS1980 Date: 2019/1/17 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	0.98	0.98	0.98	0.96	0.96	0.96	0.91	0.91	0.91	0.87	0.87	0.87	0.84	0.84	0.84	0.82
1	0.91	0.89	0.87	0.89	0.88	0.86	0.86	0.85	0.83	0.83	0.82	0.81	0.80	0.79	0.79	0.77
2	0.85	0.82	0.80	0.84	0.81	0.79	0.81	0.79	0.77	0.79	0.77	0.75	0.77	0.75	0.74	0.73
3	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.74	0.72	0.70	0.69
4	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.70	0.68	0.72	0.69	0.67	0.70	0.68	0.66	0.65
5	0.72	0.68	0.65	0.72	0.68	0.65	0.70	0.67	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
6	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
7	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.59	0.57	0.56
8	0.63	0.59	0.56	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	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.58	0.55	0.53	0.52
10	0.58	0.54	0.51	0.57	0.53	0.51	0.57	0.53	0.51	0.56	0.53	0.51	0.56	0.53	0.50	0.49

Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/17
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

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	2494.69	2496.38	2486.25	2466.00	2437.31	2385.00	2332.13	2273.06	2209.50
45.0	2496.38	2492.44	2472.19	2446.88	2408.06	2352.38	2287.69	2222.44	2139.75
90.0	2494.13	2484.00	2460.94	2423.25	2378.81	2325.38	2250.00	2178.56	2104.88
135.0	2496.38	2490.19	2469.38	2440.13	2398.50	2341.13	2277.56	2199.38	2126.25
180.0	2494.69	2477.81	2451.94	2415.38	2360.81	2305.69	2247.19	2167.31	2080.69
225.0	2496.38	2492.44	2473.88	2441.81	2402.44	2346.75	2293.88	2224.69	2148.75
270.0	2494.13	2495.25	2485.69	2463.19	2427.19	2382.75	2324.25	2259.00	2192.63
315.0	2496.38	2493.56	2477.81	2447.44	2409.75	2361.94	2297.25	2226.38	2156.06
360.0	2494.69	2496.38	2486.25	2466.00	2437.31	2385.00	2332.13	2273.06	2209.50

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2117.81	2038.50	1968.75	1857.94	1753.88	1661.63	1553.63	1446.19	1357.88
45.0	2052.56	1970.44	1876.50	1776.94	1687.50	1583.44	1487.81	1375.88	1270.13
90.0	2004.75	1922.63	1835.44	1736.44	1633.50	1540.69	1433.81	1336.50	1193.63
135.0	2035.13	1937.81	1850.63	1758.94	1644.75	1550.25	1456.88	1330.88	1236.94
180.0	1998.56	1901.81	1801.69	1709.44	1616.06	1499.63	1404.56	1306.13	1110.66
225.0	2075.63	1988.44	1895.63	1806.75	1719.56	1602.00	1509.75	1414.13	1299.94
270.0	2124.00	2030.63	1949.63	1866.94	1751.63	1661.63	1561.50	1449.56	1339.31
315.0	2067.75	1970.44	1883.81	1780.88	1690.31	1582.31	1472.63	1374.19	1278.56
360.0	2117.81	2038.50	1968.75	1857.94	1753.88	1661.63	1553.63	1446.19	1357.88

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1238.06	1140.19	1031.63	923.06	828.00	738.00	631.13	558.56	494.44
45.0	1168.88	1065.38	937.69	843.19	738.00	636.19	560.25	493.88	441.56
90.0	1102.78	999.17	882.62	768.60	675.11	592.31	496.41	447.75	402.86
135.0	1133.44	1020.38	902.81	803.81	698.63	608.06	538.31	469.13	421.31
180.0	1071.79	971.72	858.83	753.02	665.04	579.60	513.51	452.25	404.21
225.0	1122.13	1084.50	968.29	853.37	761.96	663.58	583.48	510.69	453.88
270.0	1235.25	1121.63	1022.06	905.63	794.25	706.50	608.63	528.75	469.13
315.0	1112.06	1050.53	954.34	827.38	747.17	663.75	575.78	502.82	448.59
360.0	1238.06	1140.19	1031.63	923.06	828.00	738.00	631.13	558.56	494.44

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	429.19	388.13	353.81	320.63	291.94	286.31	244.58	224.16	207.28
45.0	390.94	358.31	328.50	297.00	284.63	246.04	225.11	207.06	191.76
90.0	361.69	326.70	301.16	274.33	251.66	228.99	209.25	193.39	178.93
135.0	376.31	339.19	308.81	285.75	254.19	231.08	213.47	195.13	178.48
180.0	367.54	334.46	297.90	273.32	251.55	226.80	209.08	193.50	177.08
225.0	410.79	373.89	335.08	307.13	281.42	253.13	233.16	214.99	196.31
270.0	419.63	368.44	336.94	308.81	284.06	254.36	234.45	216.39	195.86
315.0	398.08	355.78	325.91	295.59	273.26	249.75	231.08	212.12	196.09
360.0	429.19	388.13	353.81	320.63	291.94	286.31	244.58	224.16	207.28

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	189.73	174.60	159.69	145.18	131.40	118.63	104.63	94.44	84.49
45.0	175.28	162.34	148.44	131.51	118.46	106.71	93.43	82.97	73.35
90.0	162.51	150.58	137.53	121.56	109.86	99.23	88.03	77.23	68.57
135.0	165.15	153.06	137.87	125.27	113.34	101.08	89.72	79.88	69.81
180.0	162.34	150.30	135.51	121.28	109.69	97.65	87.41	76.44	66.83
225.0	179.16	165.38	148.22	135.11	119.98	105.24	95.85	84.15	72.34
270.0	180.79	166.61	152.89	137.36	124.37	110.93	100.58	89.78	79.26
315.0	178.71	163.69	151.48	134.61	122.23	110.48	100.13	87.69	78.24
360.0	189.73	174.60	159.69	145.18	131.40	118.63	104.63	94.44	84.49

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	73.01	64.86	57.71	50.74	44.33	39.09	33.86	29.76	25.48
45.0	63.00	56.31	50.18	44.10	38.64	34.37	30.04	26.27	21.83
90.0	60.24	53.83	47.31	41.46	36.84	32.23	27.84	23.91	19.58
135.0	61.03	54.34	47.76	42.53	37.13	32.46	28.58	25.09	19.52
180.0	59.40	53.04	45.68	40.50	35.78	30.54	26.44	22.44	17.61
225.0	65.19	57.99	49.44	44.72	39.77	33.69	30.15	26.27	21.77
270.0	70.82	62.33	54.96	49.11	43.43	37.58	33.24	29.25	24.98
315.0	69.53	61.14	53.72	47.87	41.96	36.68	32.46	28.01	24.19
360.0	73.01	64.86	57.71	50.74	44.33	39.09	33.86	29.76	25.48

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	21.04	16.99	12.88	10.63	9.06	8.83	8.66	8.66	8.61
45.0	17.04	13.22	10.46	8.72	8.44	8.33	8.27	8.21	8.21
90.0	15.13	12.15	10.29	9.62	9.45	9.39	9.39	9.39	9.39
135.0	16.03	12.66	9.90	8.94	8.83	8.72	8.66	8.66	8.72
180.0	13.61	10.97	8.83	8.55	8.33	8.33	8.33	8.27	8.33
225.0	16.99	13.44	10.52	8.66	8.38	8.16	8.16	8.16	8.21
270.0	20.81	17.04	13.16	11.03	9.96	9.73	9.56	9.51	9.51
315.0	19.63	15.64	12.26	10.41	9.45	9.28	9.23	9.17	9.17
360.0	21.04	16.99	12.88	10.63	9.06	8.83	8.66	8.66	8.61

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	8.61	8.66	8.72	8.78	8.78	8.83	8.89	8.94	8.94
45.0	8.21	8.21	8.27	8.27	8.33	8.38	8.38	8.44	8.49
90.0	9.45	9.45	9.56	9.56	9.62	9.68	9.68	9.73	9.73
135.0	8.72	8.72	8.83	8.83	8.89	8.94	9.00	9.06	9.06
180.0	8.38	8.38	8.49	8.49	8.55	8.66	8.72	8.72	8.83
225.0	8.27	8.33	8.38	8.38	8.49	8.55	8.66	8.78	8.89
270.0	9.56	9.56	9.62	9.62	9.62	9.68	9.73	9.79	9.84
315.0	9.11	9.17	9.23	9.23	9.23	9.23	9.23	9.28	9.28
360.0	8.61	8.66	8.72	8.78	8.78	8.83	8.89	8.94	8.94

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.00	9.06	9.06	9.17	9.17	9.23	9.34	9.45	9.62
45.0	8.55	8.66	8.78	8.89	9.00	9.34	9.96	12.04	12.88
90.0	9.79	9.79	9.84	9.90	9.90	9.96	10.24	10.46	10.24
135.0	9.11	9.23	9.34	9.56	9.73	9.90	10.01	10.01	9.90
180.0	8.89	9.06	9.23	9.34	9.39	9.45	9.56	9.68	9.84
225.0	9.00	9.11	9.28	9.39	9.62	9.96	10.46	12.38	12.99
270.0	9.96	9.96	10.01	10.07	10.18	10.29	10.63	11.03	11.42
315.0	9.28	9.34	9.34	9.34	9.39	9.51	9.62	9.79	10.01
360.0	9.00	9.06	9.06	9.17	9.17	9.23	9.34	9.45	9.62

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.79	9.90	9.96	9.90	9.79	9.45	9.23	6.47	4.50
45.0	10.97	10.35	10.18	10.29	10.13	9.84	4.95	4.44	4.44
90.0	10.24	10.18	10.07	9.84	9.84	5.12	4.44	4.39	4.33
135.0	9.90	9.90	9.79	9.73	9.56	5.40	4.50	4.44	4.39
180.0	9.96	10.07	10.01	9.79	9.62	4.84	4.50	4.50	4.39
225.0	11.08	10.41	10.58	10.80	10.74	10.52	5.85	4.50	4.44
270.0	11.03	10.58	10.13	9.96	9.84	9.62	9.34	5.46	4.44
315.0	10.18	10.01	9.73	9.56	9.39	9.11	8.89	6.08	4.44
360.0	9.79	9.90	9.96	9.90	9.79	9.45	9.23	6.47	4.50

Intensity data(cd)

C/γ(°)	90.0
0.0	4.44
45.0	4.39
90.0	4.33
135.0	4.33
180.0	4.33
225.0	4.39
270.0	4.44
315.0	4.44
360.0	4.44