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NATA

LumCAT: 2-1680-M
Luminaire: 92.70.125.00

Report No: NATA0100	Voltage(V): 33.5900
Test No: GC2019022712	Current(A): 0.2000
LampCAT: NICHIA NVNWS007Z-V1 LES5.9	Power (W): 6.7180
Lamp flux(lm): 900.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 70	Width(mm): 70
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 802.39
Efficiency(%): 89.15%
Lumens(lm)/Power(W): 119.54
Central intensity(cd): 2966.063
Maximum intensity(cd): 2966.063
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.5
[C90/270]Total=24.5
Field angle(10%Imax): [C0/180]Total=57.4
[C90/270]Total=57.4
Maximum s/h(1/2): C0_180=0.42 C90_270=0.42
Maximum s/h(1/4): C0_180=0.39 C90_270=0.39
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.23%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.721%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2966.063	0.710	0.71	.079%	.088%
1.0	2959.664	5.664	6.374	.629%	.794%
2.0	2938.570	11.246	17.62	1.250%	2.196%
3.0	2903.695	16.665	34.285	1.852%	4.273%
4.0	2857.922	21.862	56.147	2.429%	6.997%
5.0	2791.406	26.679	82.826	2.964%	10.322%
6.0	2707.664	31.037	113.863	3.449%	14.191%
7.0	2584.898	34.545	148.408	3.838%	18.496%
8.0	2432.391	37.123	185.531	4.125%	23.122%
9.0	2246.766	38.543	224.074	4.283%	27.926%
10.0	2031.469	38.684	262.758	4.298%	32.747%
11.0	1799.859	37.661	300.419	4.185%	37.441%
12.0	1566.492	35.716	336.134	3.968%	41.892%
13.0	1237.584	30.529	366.664	3.392%	45.697%
14.0	1075.373	28.529	395.193	3.170%	49.252%
15.0	886.528	25.162	420.354	2.796%	52.388%
16.0	716.660	21.662	442.016	2.407%	55.088%
17.0	594.970	19.076	461.092	2.120%	57.465%
18.0	503.065	17.047	478.14	1.894%	59.590%
19.0	443.355	15.829	493.968	1.759%	61.562%
20.0	401.238	15.049	509.017	1.672%	63.438%
21.0	373.493	14.678	523.695	1.631%	65.267%
22.0	354.741	14.573	538.268	1.619%	67.083%
23.0	339.834	14.561	552.829	1.618%	68.898%
24.0	328.338	14.645	567.474	1.627%	70.723%
25.0	319.416	14.803	582.277	1.645%	72.568%
26.0	312.314	15.014	597.291	1.668%	74.439%
27.0	305.880	15.228	612.519	1.692%	76.337%
28.0	300.825	15.487	628.006	1.721%	78.267%
29.0	294.792	15.673	643.679	1.741%	80.221%
30.0	289.849	15.893	659.571	1.766%	82.201%
31.0	286.095	16.158	675.73	1.795%	84.215%
32.0	281.391	16.352	692.082	1.817%	86.253%
33.0	276.884	16.537	708.619	1.837%	88.314%
34.0	269.501	16.526	725.145	1.836%	90.374%
35.0	261.457	16.445	741.59	1.827%	92.423%
36.0	230.041	14.828	756.418	1.648%	94.271%
37.0	185.070	12.214	768.632	1.357%	95.793%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	126.162	8.518	777.15	.946%	96.855%
39.0	70.671	4.877	782.027	.542%	97.463%
40.0	31.880	2.247	784.274	.250%	97.743%
41.0	13.352	0.961	785.235	.107%	97.862%
42.0	9.942	0.730	785.964	.081%	97.953%
43.0	7.664	0.573	786.537	.064%	98.025%
44.0	6.124	0.467	787.004	.052%	98.083%
45.0	5.484	0.425	787.429	.047%	98.136%
46.0	4.964	0.392	787.821	.044%	98.185%
47.0	4.781	0.383	788.204	.043%	98.233%
48.0	4.634	0.378	788.582	.042%	98.280%
49.0	4.486	0.371	788.953	.041%	98.326%
50.0	4.359	0.366	789.319	.041%	98.372%
51.0	4.254	0.363	789.682	.040%	98.417%
52.0	4.170	0.360	790.042	.040%	98.462%
53.0	4.057	0.355	790.397	.039%	98.506%
54.0	3.973	0.352	790.75	.039%	98.550%
55.0	3.895	0.350	791.1	.039%	98.593%
56.0	3.797	0.345	791.445	.038%	98.636%
57.0	3.720	0.342	791.787	.038%	98.679%
58.0	3.642	0.339	792.126	.038%	98.721%
59.0	3.586	0.337	792.463	.037%	98.763%
60.0	3.523	0.335	792.797	.037%	98.805%
61.0	3.473	0.333	793.131	.037%	98.846%
62.0	3.431	0.332	793.463	.037%	98.888%
63.0	3.361	0.328	793.791	.036%	98.929%
64.0	3.333	0.328	794.12	.036%	98.970%
65.0	3.284	0.326	794.446	.036%	99.010%
66.0	3.255	0.326	794.772	.036%	99.051%
67.0	3.220	0.325	795.097	.036%	99.092%
68.0	3.206	0.326	795.423	.036%	99.132%
69.0	3.171	0.325	795.748	.036%	99.173%
70.0	3.150	0.325	796.072	.036%	99.213%
71.0	3.129	0.324	796.397	.036%	99.254%
72.0	3.094	0.323	796.719	.036%	99.294%
73.0	3.073	0.322	797.042	.036%	99.334%
74.0	3.073	0.324	797.366	.036%	99.374%
75.0	3.052	0.323	797.689	.036%	99.415%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	3.038	0.323	798.012	.036%	99.455%
77.0	3.038	0.325	798.337	.036%	99.495%
78.0	3.016	0.324	798.66	.036%	99.536%
79.0	3.009	0.324	798.984	.036%	99.576%
80.0	3.009	0.325	799.309	.036%	99.617%
81.0	2.988	0.324	799.633	.036%	99.657%
82.0	2.988	0.325	799.957	.036%	99.697%
83.0	2.981	0.324	800.282	.036%	99.738%
84.0	2.967	0.324	800.605	.036%	99.778%
85.0	2.974	0.325	800.93	.036%	99.819%
86.0	2.974	0.325	801.256	.036%	99.859%
87.0	2.953	0.323	801.579	.036%	99.899%
88.0	2.946	0.323	801.902	.036%	99.940%
89.0	2.939	0.322	802.224	.036%	99.980%
90.0	2.953	0.162	802.386	.018%	100.000%

Zonal flux distribution table

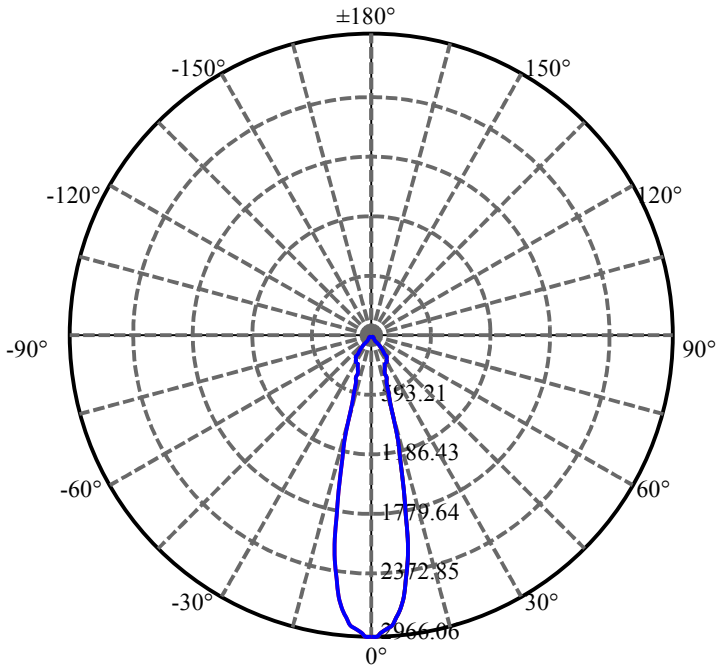
ZONAL LUMEN SUMMARY

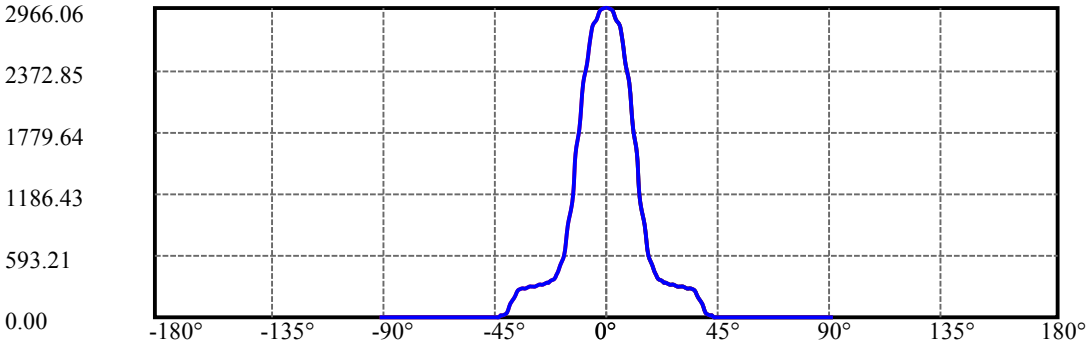
Zone	Lumens	%Lamp	%Fixt
0-30	659.57	73.29%	82.20%
0-40	784.27	87.14%	97.74%
0-60	792.80	88.09%	98.80%
0-90	802.22	89.14%	99.98%
0-120	802.22	89.14%	99.98%
0-180	802.39	89.15%	100.00%
60-90	9.76	1.08%	1.22%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.89	641.91	71.32%	80.00%

ZONAL LUMEN SUMMARY

0-10	262.76
10-20	246.26
20-30	150.55
30-40	124.70
40-50	5.05
50-60	3.48
60-70	3.28
70-80	3.24
80-90	2.92
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):

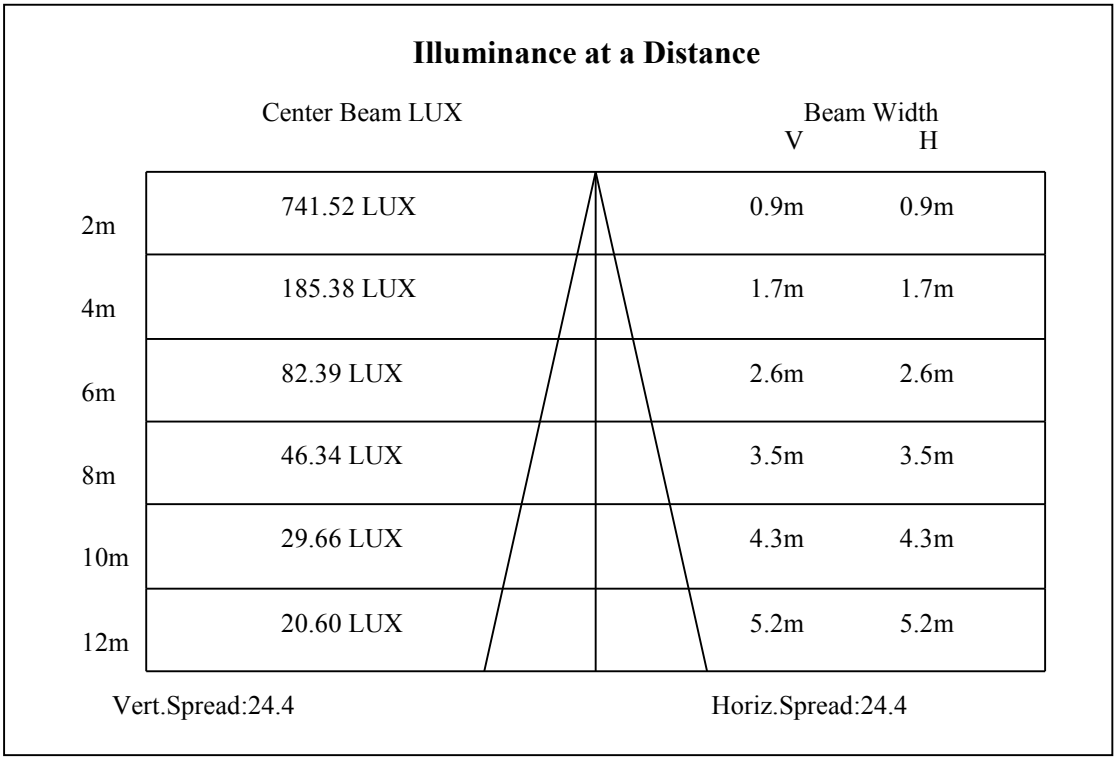
C0/C180:

C90/C270:

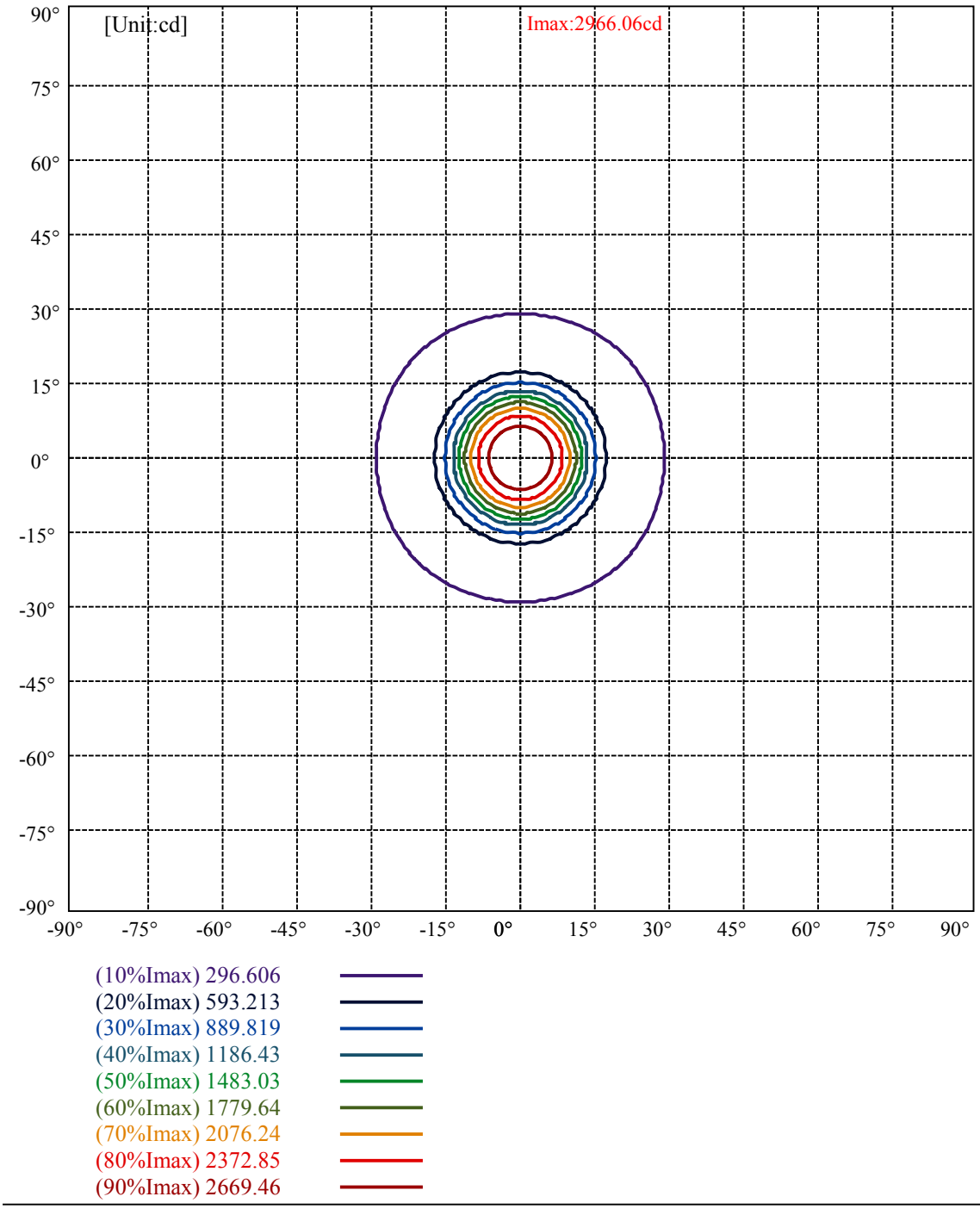
Field angle(10%Imax):C0/180Left:28.7 Right:28.7
:C90/270Left:28.7 Right:28.7

Beam Angle(50%Imax):C0/180Left:12.3 Right:12.3
:C90/270Left:12.3 Right:12.3

Lux distance Curve



ISO-Intensity(V-H)

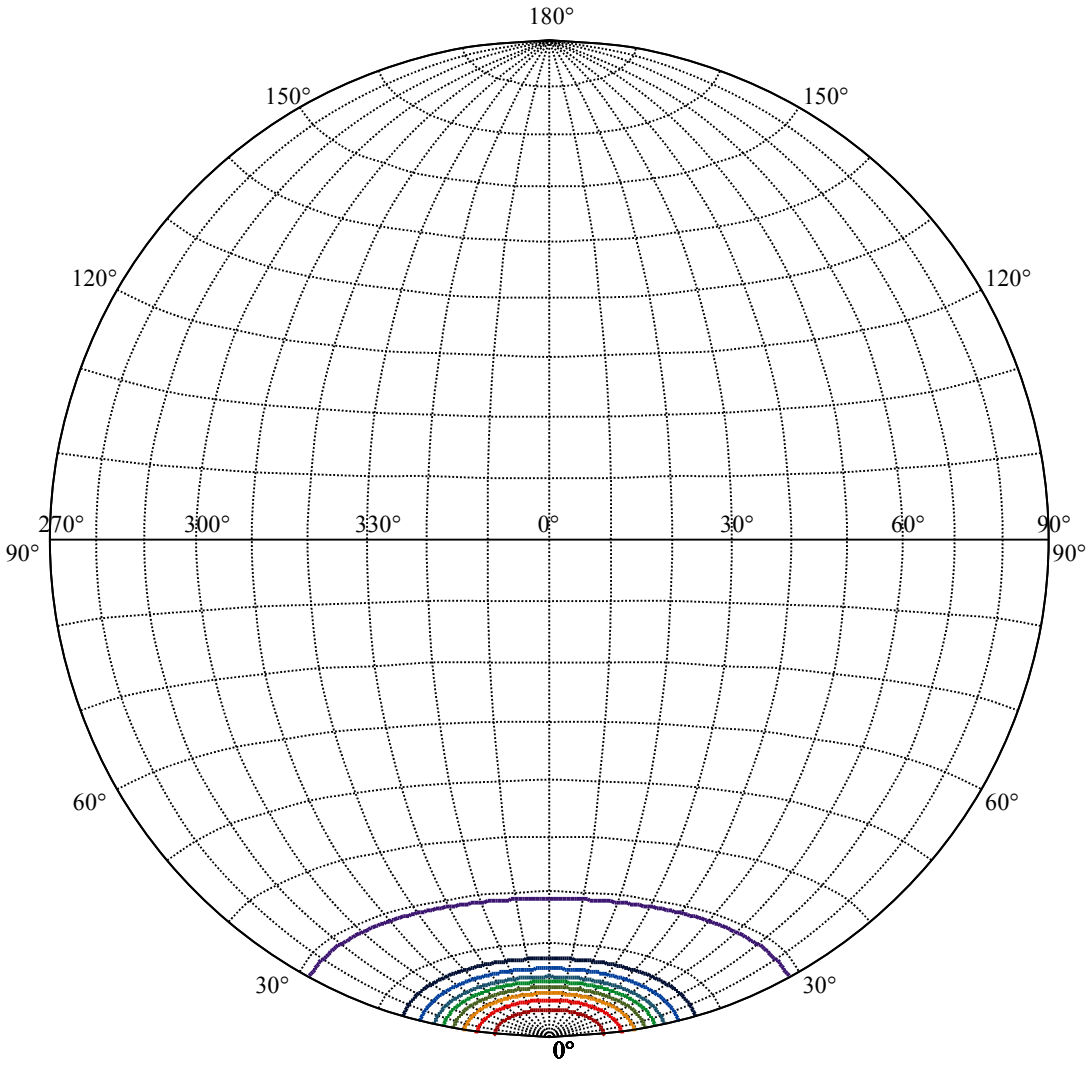


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/27
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:2966.06

(10%Imax) 296.606
(20%Imax) 593.213
(30%Imax) 889.819
(40%Imax) 1186.43
(50%Imax) 1483.03
(60%Imax) 1779.64
(70%Imax) 2076.24
(80%Imax) 2372.85
(90%Imax) 2669.46

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/27
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

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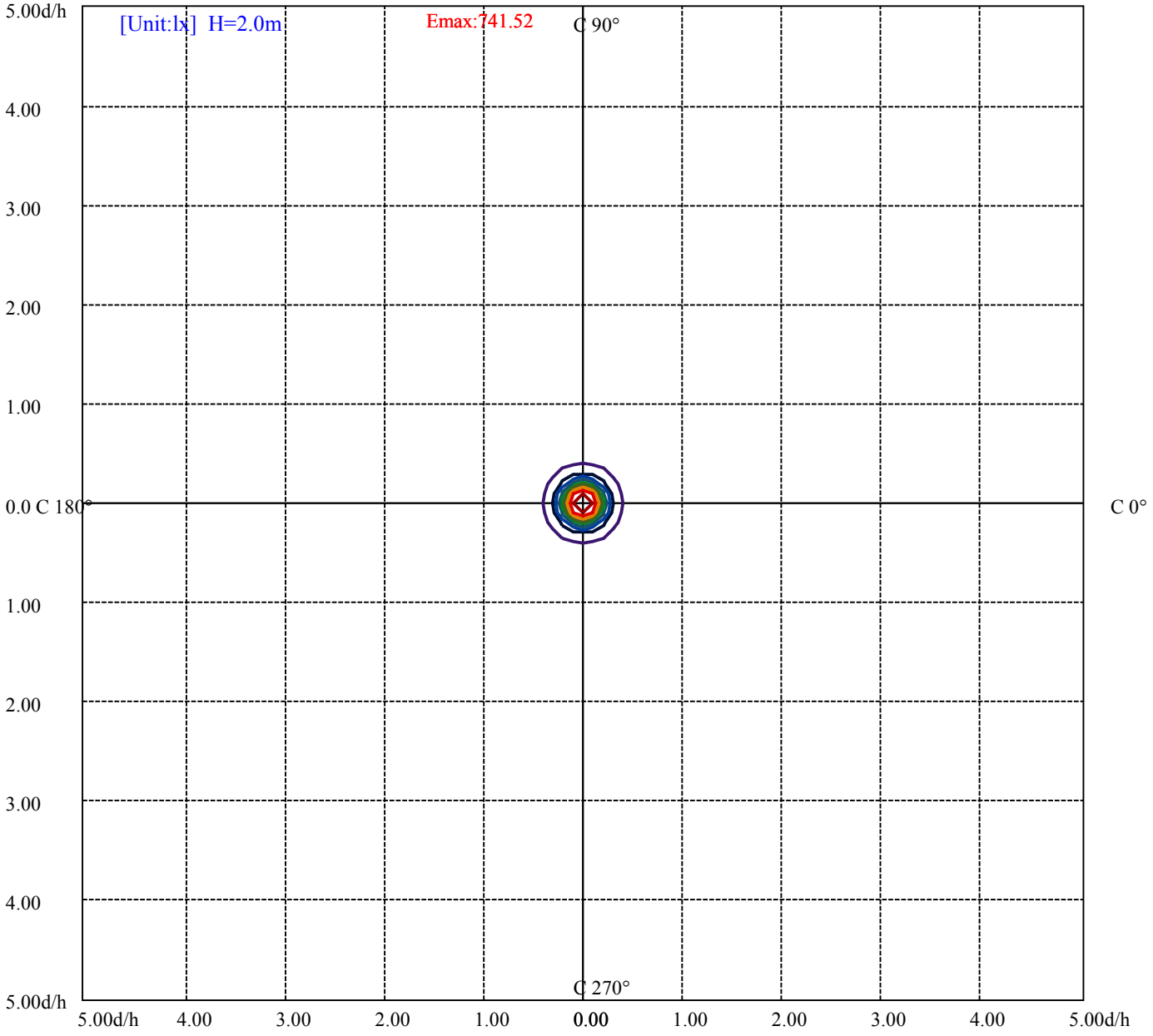
ISO illuminance diagram

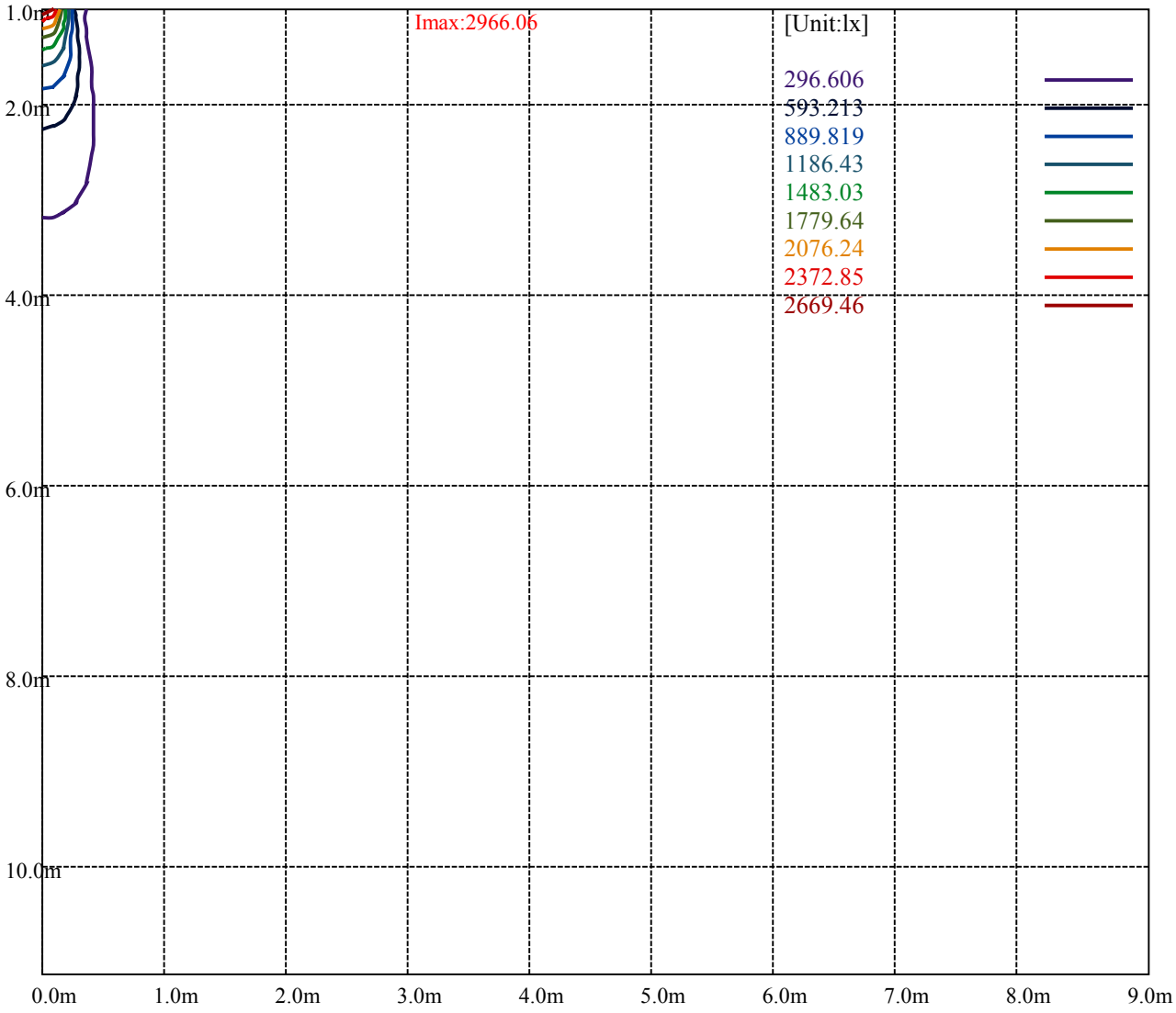


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/27
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/27
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

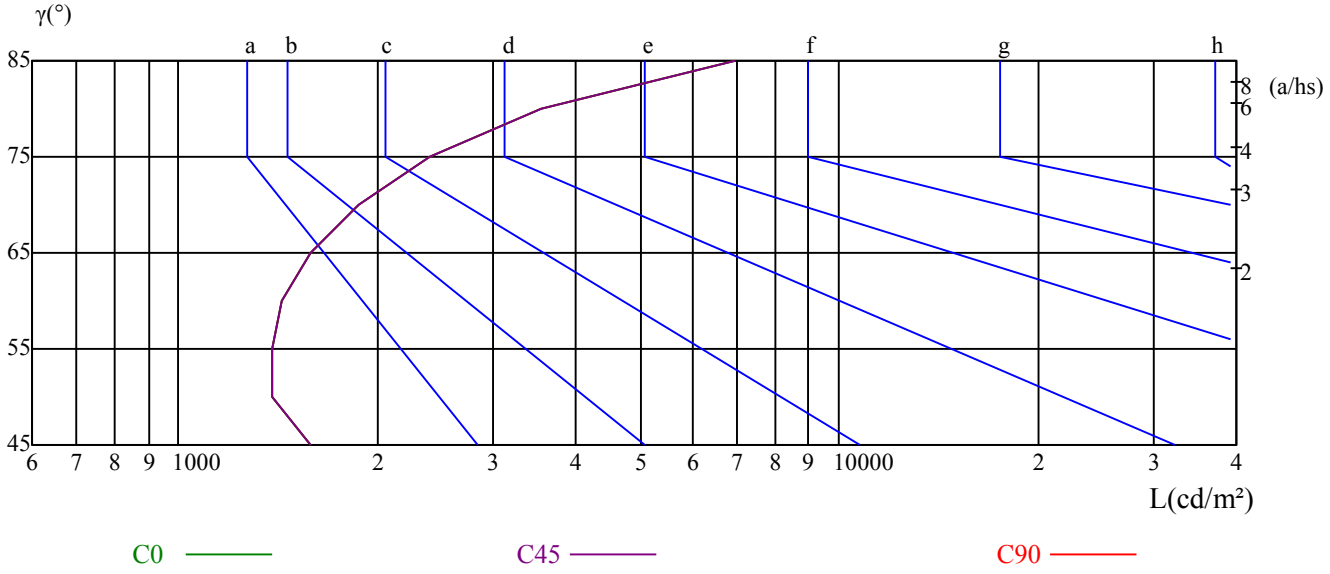
γ	45	50	55	60	65	70	75	80	85
C0	1583	1384	1386	1438	1586	1880	2406	3537	6964
C45	1583	1384	1386	1438	1586	1880	2406	3537	6964
C90	1583	1384	1386	1438	1586	1880	2406	3537	6964

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1586	1586	1586	2406	2406	2406	6964	6964	6964

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



Equipment: GMS1980 Date: 2019/2/27 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

UGR Glare

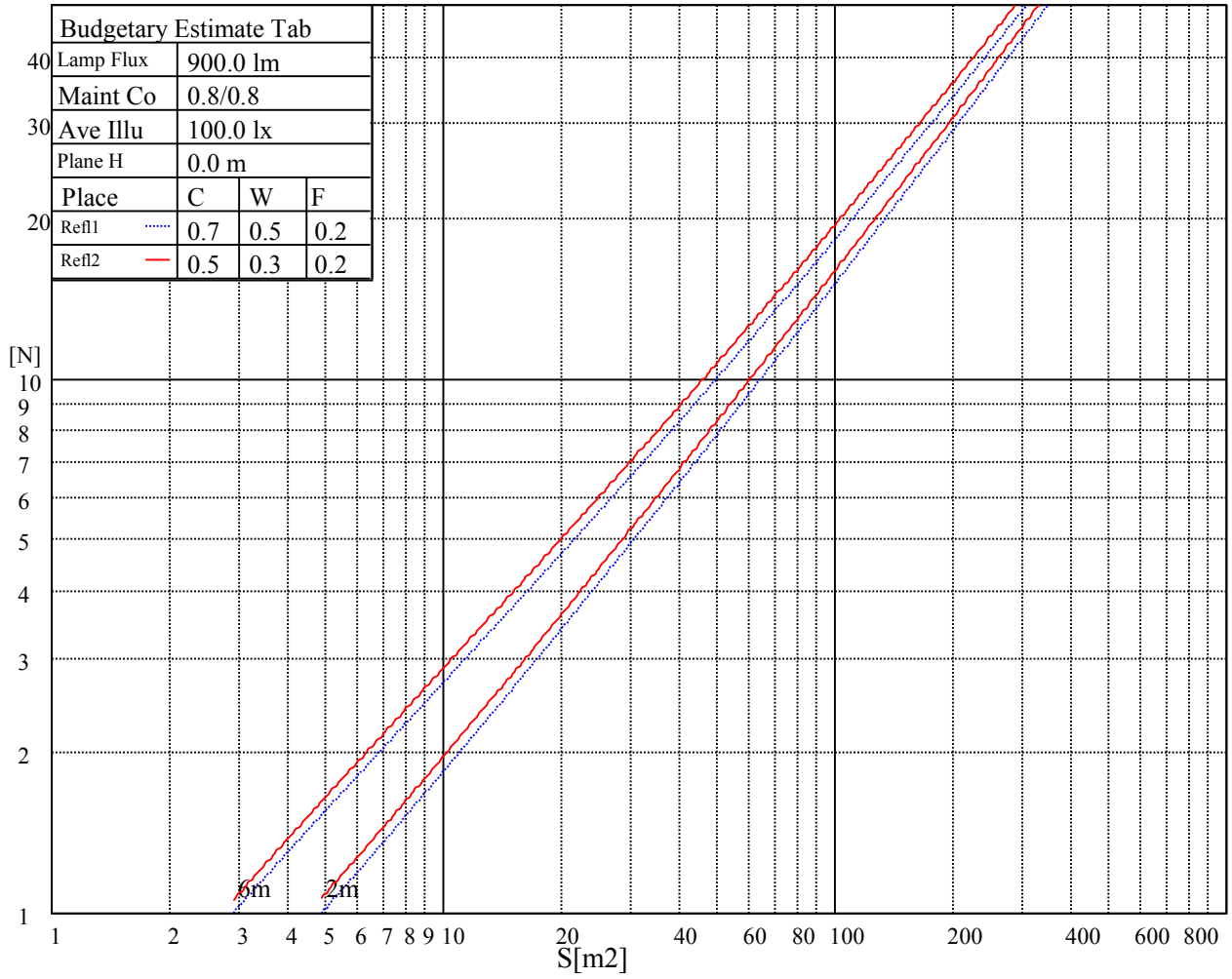
Illumination assessment according UGR

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	2.63	3.54	2.99	3.85	4.16	2.65	3.56	3.02	3.87	4.19
	3H	5.50	6.30	5.88	6.64	7.01	5.54	6.34	5.92	6.67	7.04
	4H	7.11	7.85	7.52	8.21	8.60	7.13	7.87	7.53	8.22	8.61
	6H	8.97	9.65	9.39	10.02	10.42	8.95	9.63	9.37	10.01	10.40
	8H	10.02	10.65	10.46	11.05	11.46	9.99	10.63	10.43	11.02	11.43
	12H	11.74	12.35	12.18	12.73	13.16	11.72	12.32	12.15	12.71	13.14
4H	2H	3.41	4.15	3.81	4.50	4.89	3.42	4.17	3.83	4.52	4.91
	3H	6.57	7.18	6.99	7.59	7.99	6.59	7.20	7.01	7.61	8.01
	4H	8.36	8.91	8.80	9.33	9.78	8.37	8.91	8.81	9.34	9.79
	6H	10.40	10.87	10.88	11.32	11.80	10.39	10.85	10.86	11.30	11.78
	8H	11.56	11.99	12.04	12.44	12.92	11.53	11.96	12.01	12.42	12.89
	12H	13.19	13.56	13.68	14.05	14.53	13.17	13.54	13.66	14.03	14.51
8H	4H	9.05	9.49	9.53	9.94	10.41	9.06	9.49	9.54	9.94	10.42
	6H	11.38	11.72	11.89	12.23	12.71	11.37	11.71	11.88	12.21	12.70
	8H	12.73	13.03	13.27	13.55	14.05	12.71	13.01	13.25	13.53	14.03
	12H	14.51	14.77	15.03	15.27	15.85	14.49	14.75	15.02	15.25	15.83
12H	4H	9.25	9.62	9.75	10.11	10.59	9.26	9.63	9.75	10.12	10.60
	6H	11.89	11.99	12.23	12.47	13.02	11.88	11.98	12.22	12.46	13.01
	8H	13.17	13.43	13.70	13.93	14.51	13.16	13.41	13.68	13.91	14.49

Variation with the observer position at spacings:

S = 1.0H	5.1/-9.2	5.1/-9.2
S = 1.5H	7.5/-7.2	7.5/-7.2
S = 2.0H	9.1/-5.5	9.1/-5.5
Standard tables:	BK2	BK2
Uncorrected UGR	-1.4	-1.4

Budgetary Estimate Table

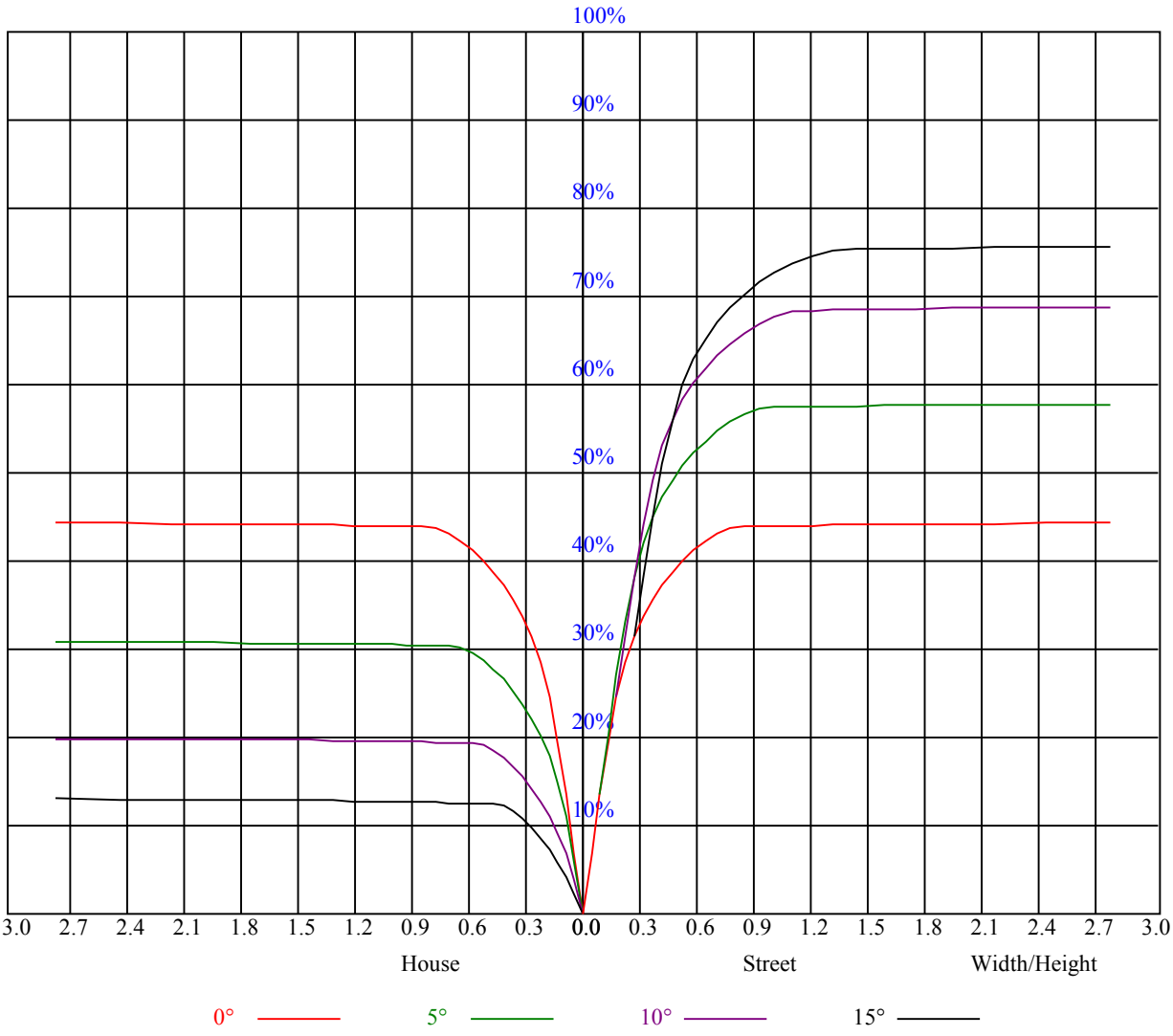


Equipment: GMS1980 Date: 2019/2/27 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.06	1.06	1.06	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	1.00	0.98	0.96	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.91	0.89	0.93	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.84	0.85	0.84	0.82	0.81
3	0.90	0.86	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.82	0.80	0.79	0.77
4	0.85	0.81	0.78	0.84	0.81	0.78	0.83	0.79	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.74
5	0.82	0.77	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
6	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
7	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.72	0.69	0.67	0.66
8	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.63
9	0.70	0.65	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.61
10	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.59

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/2/27	Operator: NT07
Temperature(°C): 10.0	Humidity(%): 65.0%	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	2962.13	2970.00	2963.25	2939.63	2896.31	2835.00	2741.06	2626.88	2485.13
45.0	2972.81	2973.94	2964.94	2940.75	2903.06	2838.38	2760.75	2650.50	2493.00
90.0	2963.25	2948.06	2925.00	2883.38	2837.25	2768.06	2681.44	2550.94	2390.63
135.0	2966.06	2950.31	2925.00	2894.63	2848.50	2790.00	2723.06	2612.25	2481.19
180.0	2962.13	2945.25	2922.75	2887.31	2840.06	2783.25	2707.88	2571.19	2422.69
225.0	2972.81	2960.44	2928.38	2890.13	2845.13	2774.25	2687.63	2552.63	2378.25
270.0	2963.25	2966.63	2939.63	2903.63	2855.81	2774.81	2694.94	2588.06	2432.81
315.0	2966.06	2962.69	2939.63	2890.13	2837.25	2767.50	2664.56	2526.75	2375.44
360.0	2962.13	2970.00	2963.25	2939.63	2896.31	2835.00	2741.06	2626.88	2485.13

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2281.50	2091.38	1880.44	1653.19	1360.13	1135.13	933.19	726.75	603.56
45.0	2307.38	2117.81	1878.19	1650.38	1388.25	1138.50	941.63	753.75	614.25
90.0	2217.38	1990.69	1741.50	1510.31	1121.91	1048.61	853.71	712.18	587.70
135.0	2304.56	2097.00	1888.31	1663.88	1371.38	1150.88	956.25	751.50	628.31
180.0	2246.06	1992.38	1771.88	1542.94	1099.74	1050.92	873.90	709.43	593.66
225.0	2196.56	1965.38	1711.13	1476.56	1120.22	1001.53	832.11	689.34	577.13
270.0	2244.38	2051.44	1808.44	1578.94	1318.50	1078.88	894.94	722.25	591.19
315.0	2176.31	1945.69	1719.00	1455.75	1120.56	998.55	806.51	668.08	563.96
360.0	2281.50	2091.38	1880.44	1653.19	1360.13	1135.13	933.19	726.75	603.56

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	515.25	448.31	405.56	380.25	359.44	345.38	333.00	322.88	316.13
45.0	519.75	454.50	402.75	375.19	354.94	336.94	325.69	317.25	308.81
90.0	497.14	442.35	405.06	373.28	354.99	340.88	328.28	318.66	311.68
135.0	532.69	456.75	408.94	381.38	360.00	344.81	332.44	323.44	316.69
180.0	497.53	433.86	397.58	369.96	350.83	338.34	328.56	318.77	312.24
225.0	479.59	427.78	392.57	363.21	346.56	333.84	322.99	314.66	308.59
270.0	507.38	454.50	400.50	375.75	358.88	339.19	329.06	321.19	312.75
315.0	475.20	428.79	396.96	368.94	352.29	339.30	326.70	318.49	311.63
360.0	515.25	448.31	405.56	380.25	359.44	345.38	333.00	322.88	316.13

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	309.38	303.75	298.69	294.19	288.56	284.63	284.06	270.79	263.48
45.0	302.06	297.00	290.25	285.19	284.06	274.78	270.06	263.81	256.50
90.0	305.04	299.93	293.06	287.83	284.23	280.13	274.89	268.93	262.74
135.0	309.94	304.31	299.81	294.19	289.69	285.75	284.06	274.44	267.53
180.0	306.73	301.39	294.53	290.48	286.26	282.15	277.54	270.90	263.14
225.0	302.63	298.13	291.83	287.44	283.78	279.73	274.67	268.65	260.78
270.0	306.56	302.06	296.44	291.38	287.44	284.06	276.58	270.51	263.31
315.0	304.71	300.04	293.74	288.11	284.74	279.90	273.21	267.98	254.19
360.0	309.38	303.75	298.69	294.19	288.56	284.63	284.06	270.79	263.48

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	236.08	185.51	123.81	71.49	28.86	13.22	10.29	7.71	6.08
45.0	231.36	188.44	126.23	76.33	35.78	14.29	10.41	8.10	6.53
90.0	229.22	183.88	130.84	67.28	30.21	12.88	9.96	7.65	6.24
135.0	252.79	220.33	151.03	99.68	56.70	17.66	10.41	8.44	6.13
180.0	229.44	176.57	122.91	65.76	25.48	11.59	9.51	7.20	6.02
225.0	221.68	173.14	121.39	58.67	24.36	12.04	9.56	7.31	5.96
270.0	239.12	197.49	130.16	77.12	36.28	13.33	10.13	7.93	6.02
315.0	200.64	155.19	102.94	49.05	17.38	11.81	9.28	6.98	6.02
360.0	236.08	185.51	123.81	71.49	28.86	13.22	10.29	7.71	6.08

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	5.46	5.06	4.89	4.73	4.56	4.44	4.33	4.22	4.11
45.0	5.68	5.01	4.84	4.67	4.50	4.39	4.28	4.22	4.11
90.0	5.74	5.01	4.78	4.61	4.50	4.39	4.28	4.16	4.05
135.0	5.23	5.01	4.78	4.67	4.56	4.39	4.28	4.22	4.05
180.0	5.68	4.89	4.73	4.61	4.44	4.33	4.28	4.11	4.05
225.0	5.29	4.95	4.78	4.61	4.50	4.33	4.22	4.16	4.05
270.0	5.18	4.89	4.73	4.61	4.44	4.33	4.22	4.16	4.05
315.0	5.63	4.89	4.73	4.56	4.39	4.28	4.16	4.11	3.99
360.0	5.46	5.06	4.89	4.73	4.56	4.44	4.33	4.22	4.11

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	4.05	3.94	3.88	3.77	3.66	3.66	3.54	3.49	3.43
45.0	4.05	3.99	3.83	3.77	3.71	3.66	3.60	3.54	3.54
90.0	3.94	3.88	3.83	3.77	3.66	3.60	3.54	3.49	3.43
135.0	3.99	3.94	3.83	3.71	3.66	3.60	3.54	3.49	3.43
180.0	3.94	3.88	3.77	3.71	3.60	3.54	3.49	3.43	3.38
225.0	3.94	3.83	3.77	3.71	3.60	3.54	3.49	3.49	3.43
270.0	3.99	3.88	3.71	3.66	3.66	3.54	3.49	3.43	3.43
315.0	3.88	3.83	3.77	3.66	3.60	3.54	3.49	3.43	3.38
360.0	4.05	3.94	3.88	3.77	3.66	3.66	3.54	3.49	3.43

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.43	3.32	3.32	3.26	3.26	3.26	3.21	3.21	3.15
45.0	3.43	3.38	3.32	3.32	3.26	3.26	3.21	3.15	3.21
90.0	3.38	3.38	3.32	3.26	3.21	3.21	3.21	3.15	3.15
135.0	3.38	3.32	3.26	3.26	3.26	3.21	3.15	3.15	3.09
180.0	3.32	3.32	3.26	3.21	3.15	3.15	3.15	3.15	3.09
225.0	3.32	3.32	3.26	3.26	3.21	3.15	3.15	3.09	3.15
270.0	3.32	3.32	3.26	3.26	3.21	3.21	3.15	3.15	3.09
315.0	3.32	3.32	3.26	3.21	3.21	3.21	3.15	3.15	3.09
360.0	3.43	3.32	3.32	3.26	3.26	3.26	3.21	3.21	3.15

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	3.09	3.09	3.09	3.04	3.04	3.04	3.04	3.04	2.98
45.0	3.09	3.09	3.09	3.09	3.04	3.09	3.04	3.04	3.04
90.0	3.09	3.09	3.09	3.04	3.09	3.04	3.04	3.04	2.98
135.0	3.09	3.09	3.09	3.04	3.04	3.04	3.04	2.98	3.04
180.0	3.09	3.04	3.04	3.04	3.04	2.98	2.98	2.98	2.98
225.0	3.09	3.04	3.04	3.04	2.98	3.04	2.98	2.98	3.04
270.0	3.09	3.09	3.09	3.09	3.04	3.04	2.98	3.04	3.04
315.0	3.09	3.04	3.04	3.04	3.04	3.04	3.04	2.98	2.98
360.0	3.09	3.09	3.09	3.04	3.04	3.04	3.04	3.04	2.98

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.93
45.0	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.93	2.93
90.0	2.98	2.98	2.98	2.98	2.98	2.93	2.98	2.93	2.93
135.0	2.98	2.98	2.98	2.98	2.98	2.98	2.93	2.93	2.98
180.0	2.98	2.98	2.98	2.93	2.98	2.98	2.93	2.98	2.93
225.0	2.98	2.98	2.98	2.93	2.98	2.98	2.98	2.93	2.98
270.0	3.04	3.04	2.98	2.98	2.98	2.98	2.93	2.98	2.93
315.0	2.98	2.98	2.98	2.98	2.93	2.98	2.93	2.93	2.93
360.0	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.93

Intensity data(cd)

C/γ(°)	90.0
0.0	2.93
45.0	2.93
90.0	2.93
135.0	2.98
180.0	2.98
225.0	2.93
270.0	2.98
315.0	2.98
360.0	2.93