NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NATA

LumCAT: 3-2031-M
Luminaire: 92.70.124.00

Report No: NATA0100	Voltage(V): 34.7000
Test No: GC2019011108	Current(A): 0.3000
LampCAT: SEOUL SAWx10 LES9.8	Power (W): 10.4100
Lamp flux(lm): 1512.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 79	Width(mm): 79
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1338.50
Efficiency(%): 88.53%
Lumens(lm)/Power(W): 128.91
Central intensity(cd): 14598.280
Maximum intensity(cd): 14598.280
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=11.6
[C90/270]Total=11.6
Field angle(10%Imax): [C0/180]Total=23.1
[C90/270]Total=23.1
Maximum s/h(1/2): C0_180=0.20 C90_270=0.20
Maximum s/h(1/4): C0_180=0.21 C90_270=0.21
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 88.75%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.432%

Equipment: GMS1980	Date: 2019/1/11	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	14598.281	3.493	3.493	.231%	.261%
1.0	14077.125	26.941	30.434	1.782%	2.274%
2.0	13370.977	51.172	81.606	3.384%	6.097%
3.0	11785.922	67.642	149.248	4.474%	11.150%
4.0	10294.805	78.751	227.999	5.208%	17.034%
5.0	8616.445	82.352	310.351	5.447%	23.186%
6.0	6962.063	79.804	390.155	5.278%	29.149%
7.0	5419.406	72.427	462.582	4.790%	34.560%
8.0	4182.539	63.833	526.415	4.222%	39.329%
9.0	3083.414	52.895	579.31	3.498%	43.281%
10.0	2191.289	41.727	621.037	2.760%	46.398%
11.0	1679.576	35.144	656.181	2.324%	49.024%
12.0	1268.297	28.917	685.098	1.912%	51.184%
13.0	1030.310	25.416	710.514	1.681%	53.083%
14.0	901.097	23.906	734.42	1.581%	54.869%
15.0	802.709	22.783	757.203	1.507%	56.571%
16.0	737.107	22.280	779.483	1.474%	58.236%
17.0	693.225	22.226	801.709	1.470%	59.896%
18.0	661.802	22.427	824.135	1.483%	61.572%
19.0	640.969	22.884	847.019	1.513%	63.281%
20.0	621.809	23.322	870.341	1.542%	65.024%
21.0	605.545	23.797	894.138	1.574%	66.801%
22.0	592.284	24.331	918.469	1.609%	68.619%
23.0	578.897	24.805	943.274	1.641%	70.472%
24.0	567.401	25.308	968.581	1.674%	72.363%
25.0	556.530	25.792	994.374	1.706%	74.290%
26.0	546.103	26.252	1020.626	1.736%	76.251%
27.0	535.465	26.658	1047.284	1.763%	78.243%
28.0	525.825	27.071	1074.355	1.790%	80.266%
29.0	515.447	27.404	1101.759	1.812%	82.313%
30.0	506.088	27.749	1129.508	1.835%	84.386%
31.0	496.898	28.065	1157.572	1.856%	86.483%
32.0	483.012	28.068	1185.641	1.856%	88.580%
33.0	457.031	27.296	1212.937	1.805%	90.619%
34.0	410.414	25.167	1238.104	1.665%	92.499%
35.0	345.368	21.723	1259.828	1.437%	94.122%
36.0	282.375	18.201	1278.029	1.204%	95.482%
37.0	189.436	12.502	1290.531	.827%	96.416%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	124.812	8.427	1298.957	.557%	97.046%
39.0	61.973	4.277	1303.234	.283%	97.365%
40.0	33.497	2.361	1305.595	.156%	97.542%
41.0	19.020	1.368	1306.964	.090%	97.644%
42.0	14.351	1.053	1308.017	.070%	97.723%
43.0	11.946	0.893	1308.91	.059%	97.789%
44.0	10.877	0.829	1309.739	.055%	97.851%
45.0	10.294	0.798	1310.537	.053%	97.911%
46.0	9.907	0.782	1311.318	.052%	97.969%
47.0	9.520	0.764	1312.082	.050%	98.026%
48.0	9.197	0.749	1312.831	.050%	98.082%
49.0	8.880	0.735	1313.566	.049%	98.137%
50.0	8.571	0.720	1314.286	.048%	98.191%
51.0	8.304	0.708	1314.994	.047%	98.244%
52.0	8.058	0.696	1315.69	.046%	98.296%
53.0	7.819	0.685	1316.375	.045%	98.347%
54.0	7.587	0.673	1317.048	.045%	98.397%
55.0	7.383	0.663	1317.711	.044%	98.447%
56.0	7.172	0.652	1318.363	.043%	98.496%
57.0	7.010	0.645	1319.008	.043%	98.544%
58.0	6.834	0.636	1319.644	.042%	98.591%
59.0	6.708	0.631	1320.274	.042%	98.638%
60.0	6.574	0.624	1320.899	.041%	98.685%
61.0	6.476	0.621	1321.52	.041%	98.731%
62.0	6.363	0.616	1322.136	.041%	98.777%
63.0	6.258	0.611	1322.747	.040%	98.823%
64.0	6.166	0.608	1323.355	.040%	98.868%
65.0	6.096	0.606	1323.961	.040%	98.914%
66.0	6.026	0.604	1324.565	.040%	98.959%
67.0	5.948	0.600	1325.165	.040%	99.004%
68.0	5.892	0.599	1325.764	.040%	99.048%
69.0	5.836	0.597	1326.362	.040%	99.093%
70.0	5.787	0.596	1326.958	.039%	99.138%
71.0	5.745	0.596	1327.553	.039%	99.182%
72.0	5.702	0.595	1328.148	.039%	99.227%
73.0	5.674	0.595	1328.743	.039%	99.271%
74.0	5.632	0.594	1329.337	.039%	99.315%
75.0	5.625	0.596	1329.933	.039%	99.360%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.576	0.593	1330.526	.039%	99.404%
77.0	5.541	0.592	1331.118	.039%	99.448%
78.0	5.527	0.593	1331.711	.039%	99.493%
79.0	5.513	0.593	1332.304	.039%	99.537%
80.0	5.491	0.593	1332.897	.039%	99.581%
81.0	5.484	0.594	1333.491	.039%	99.626%
82.0	5.470	0.594	1334.085	.039%	99.670%
83.0	5.442	0.592	1334.678	.039%	99.714%
84.0	5.449	0.594	1335.272	.039%	99.759%
85.0	5.421	0.592	1335.864	.039%	99.803%
86.0	5.379	0.588	1336.453	.039%	99.847%
87.0	5.344	0.585	1337.038	.039%	99.891%
88.0	5.330	0.584	1337.622	.039%	99.934%
89.0	5.351	0.587	1338.209	.039%	99.978%
90.0	5.330	0.292	1338.501	.019%	100.000%

Zonal flux distribution table

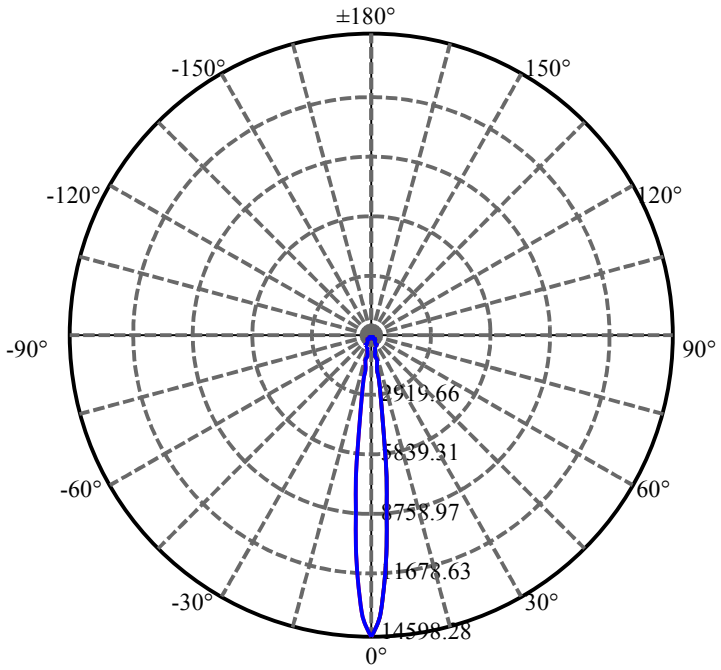
ZONAL LUMEN SUMMARY

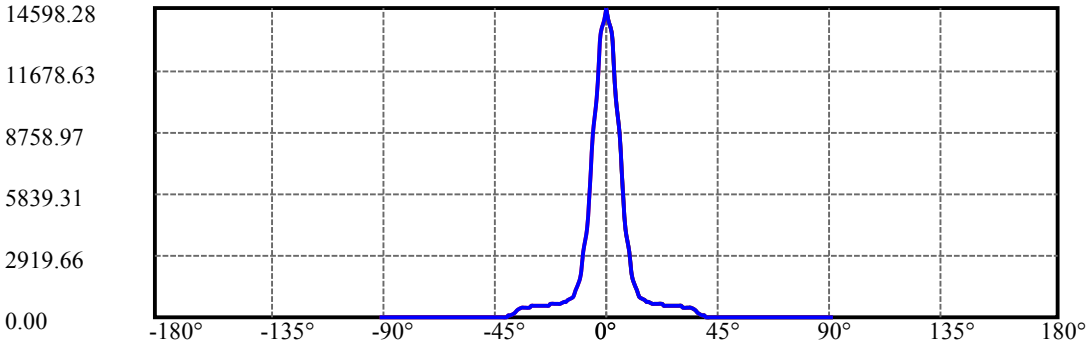
Zone	Lumens	%Lamp	%Fixt
0-30	1129.51	74.70%	84.39%
0-40	1305.60	86.35%	97.54%
0-60	1320.90	87.36%	98.68%
0-90	1338.21	88.51%	99.98%
0-120	1338.21	88.51%	99.98%
0-180	1338.50	88.53%	100.00%
60-90	17.93	1.19%	1.34%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.87	1070.80	70.82%	80.00%

ZONAL LUMEN SUMMARY

0-10	621.04
10-20	249.30
20-30	259.17
30-40	176.09
40-50	8.69
50-60	6.61
60-70	6.06
70-80	5.94
80-90	5.31
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:11.5 Right:11.5
:C90/270Left:11.5 Right:11.5

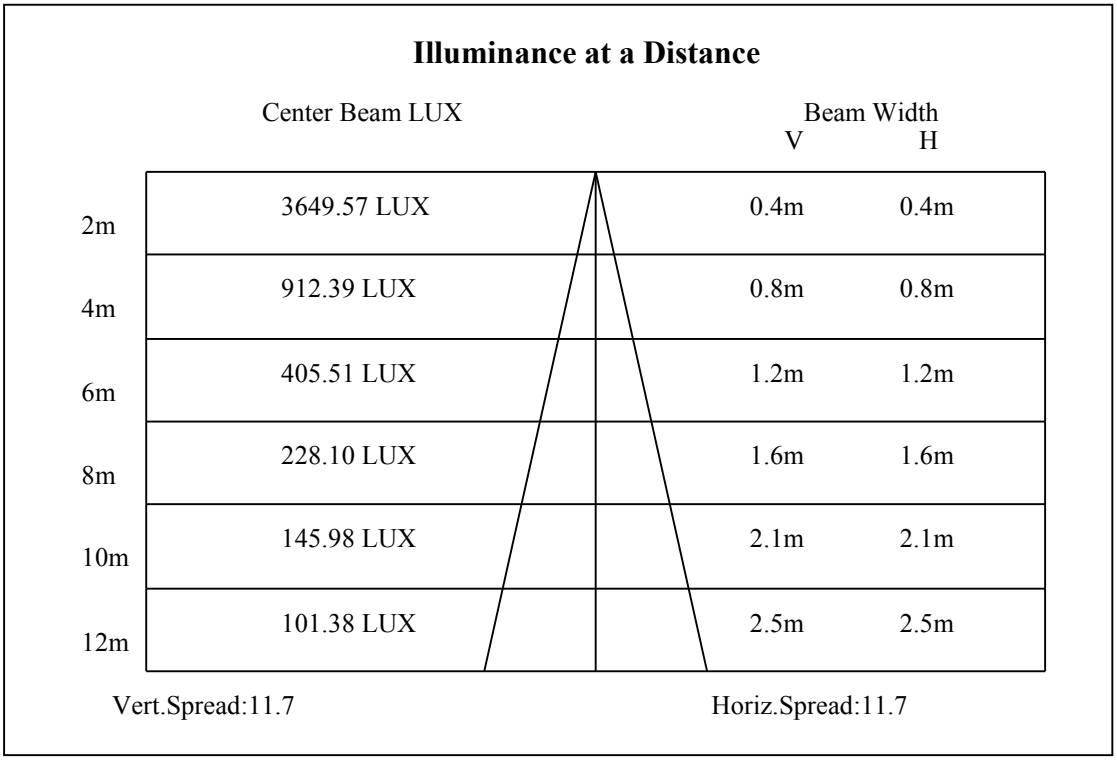
Beam Angle(50%Imax):C0/180Left:5.8 Right:5.8
:C90/270Left:5.8 Right:5.8

Equipment: GMS1980
Temperature(°C): 10.0

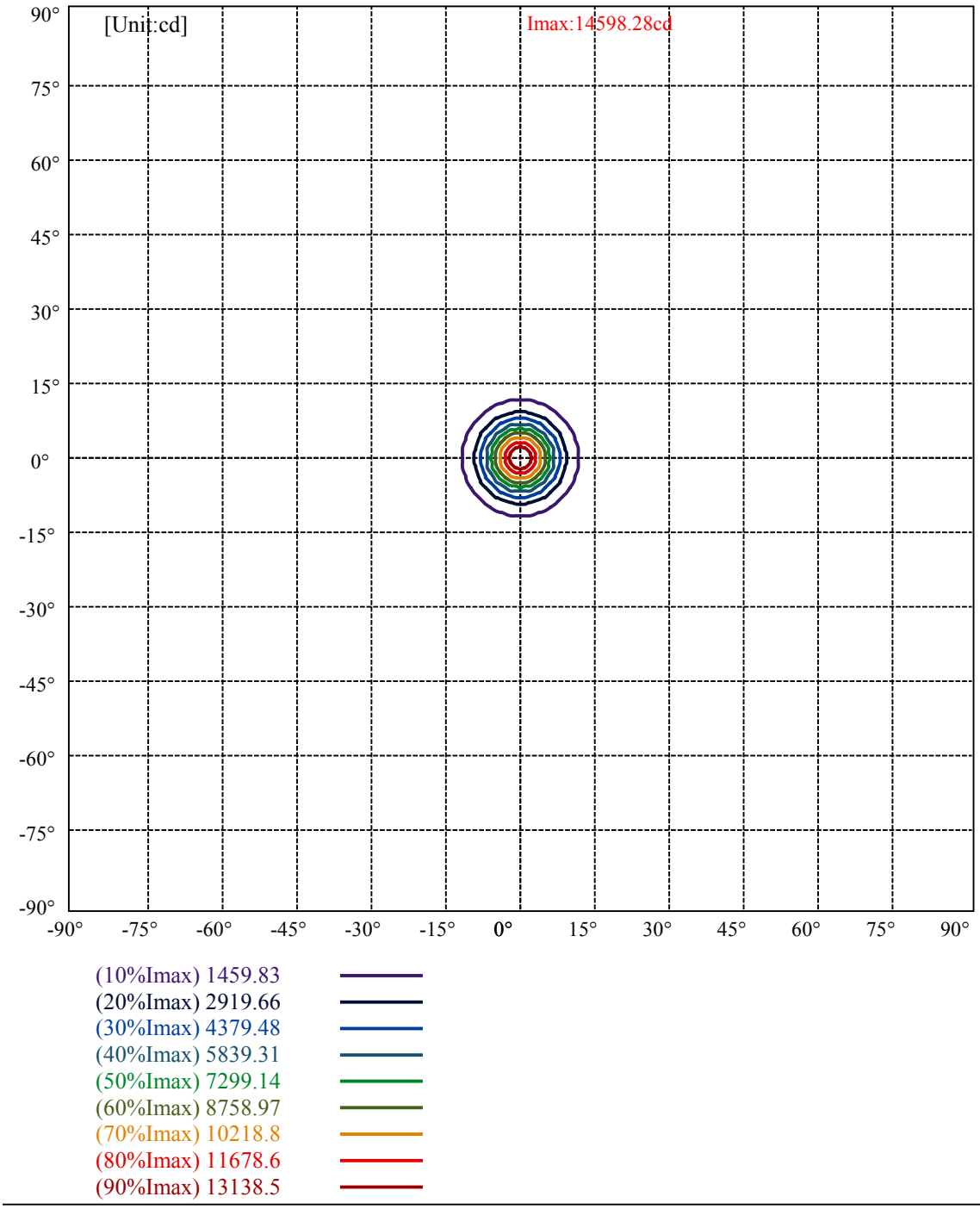
Date: 2019/1/11
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Lux distance Curve



ISO-Intensity(V-H)

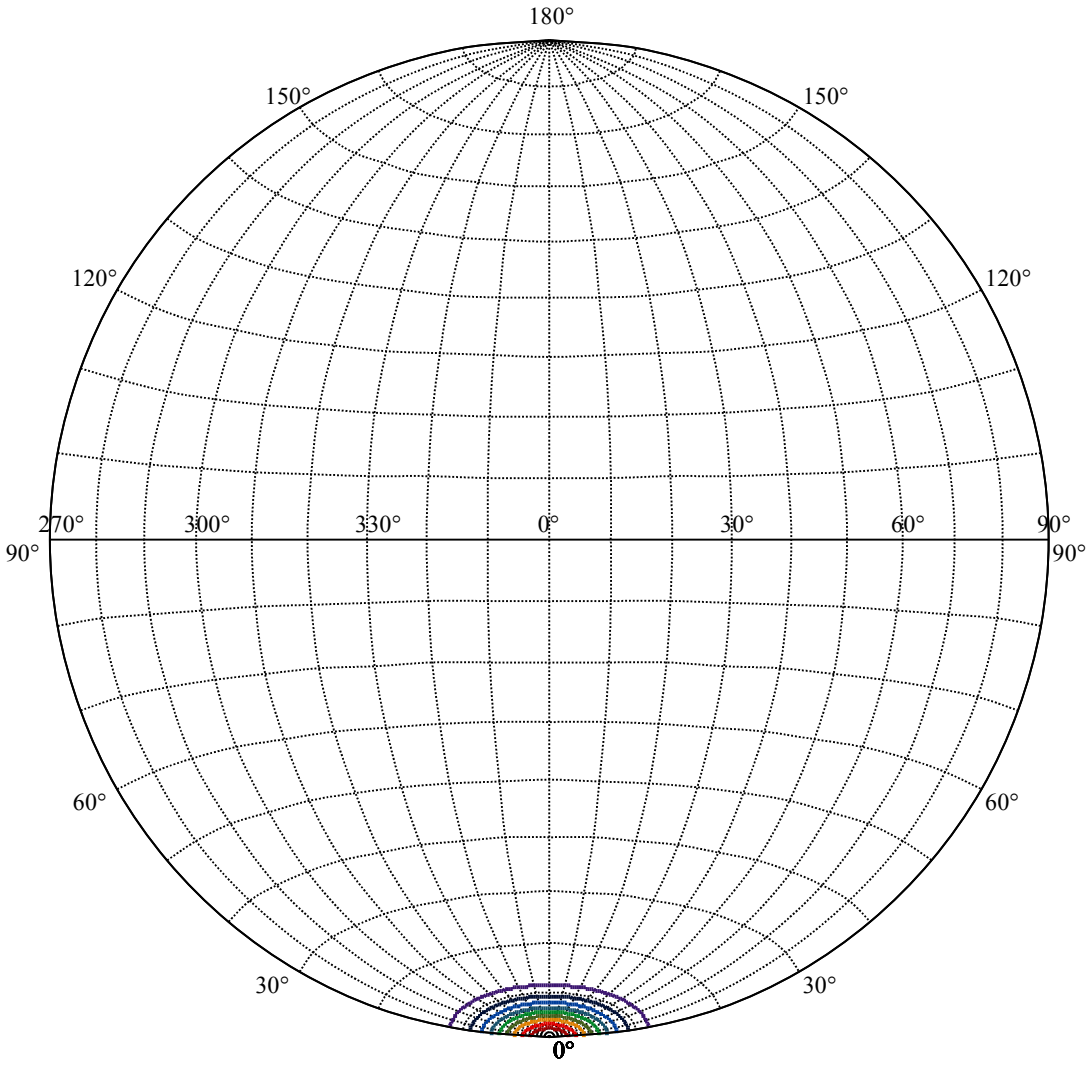


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/11
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



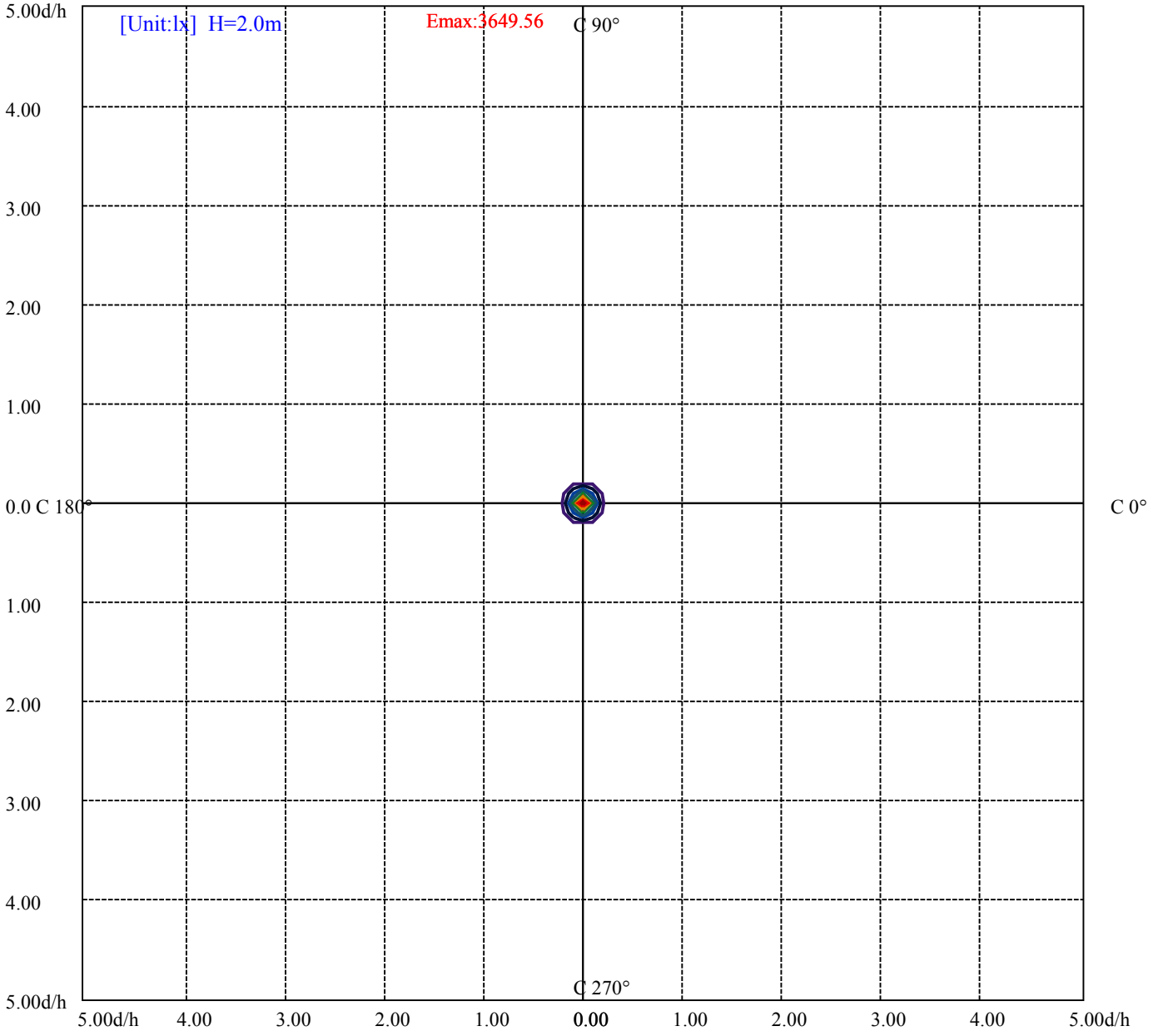
House [Unit:cd] Road

Imax:14598.28

(10%Imax) 1459.83
(20%Imax) 2919.66
(30%Imax) 4379.48
(40%Imax) 5839.31
(50%Imax) 7299.14
(60%Imax) 8758.97
(70%Imax) 10218.8
(80%Imax) 11678.6
(90%Imax) 13138.5

Equipment: GMS1980 Date: 2019/1/11 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO illuminance diagram

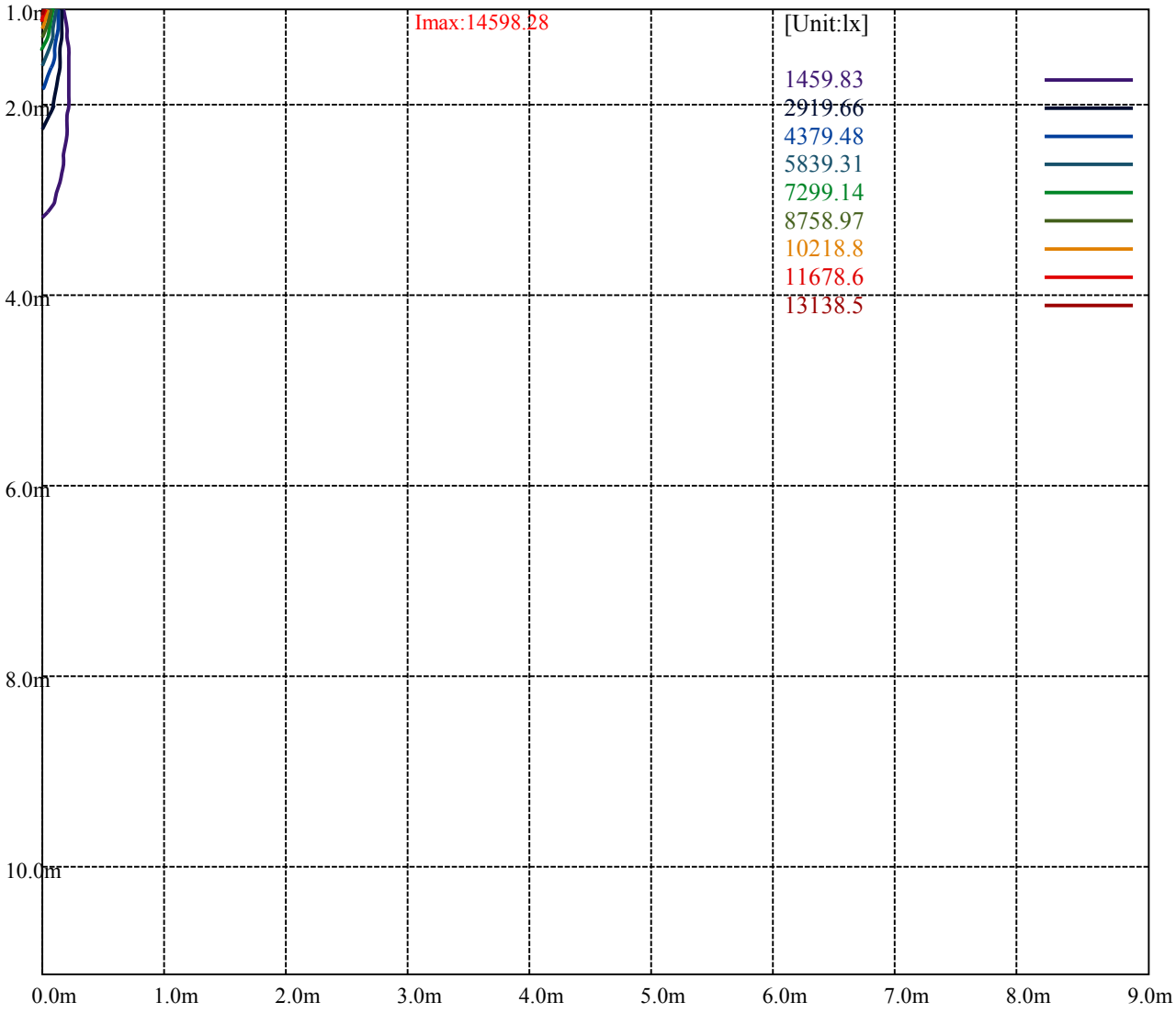


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/11
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/11
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

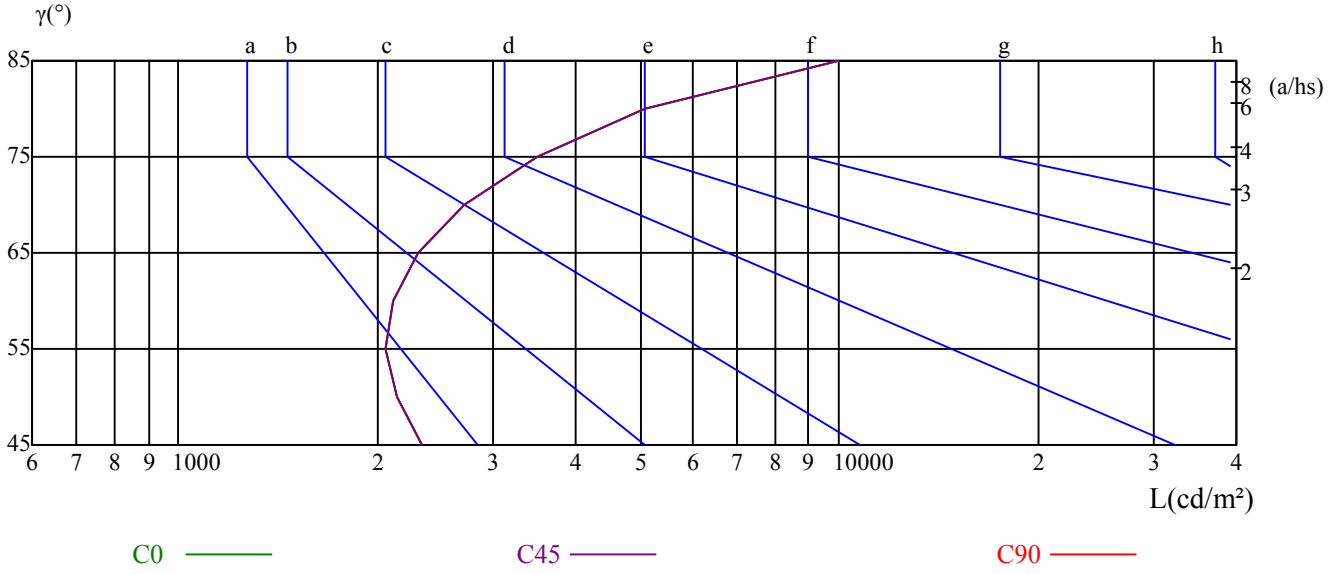
γ	45	50	55	60	65	70	75	80	85
C0	2333	2137	2062	2107	2311	2711	3482	5067	9966
C45	2333	2137	2062	2107	2311	2711	3482	5067	9966
C90	2333	2137	2062	2107	2311	2711	3482	5067	9966

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2311	2311	2311	3482	3482	3482	9966	9966	9966

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

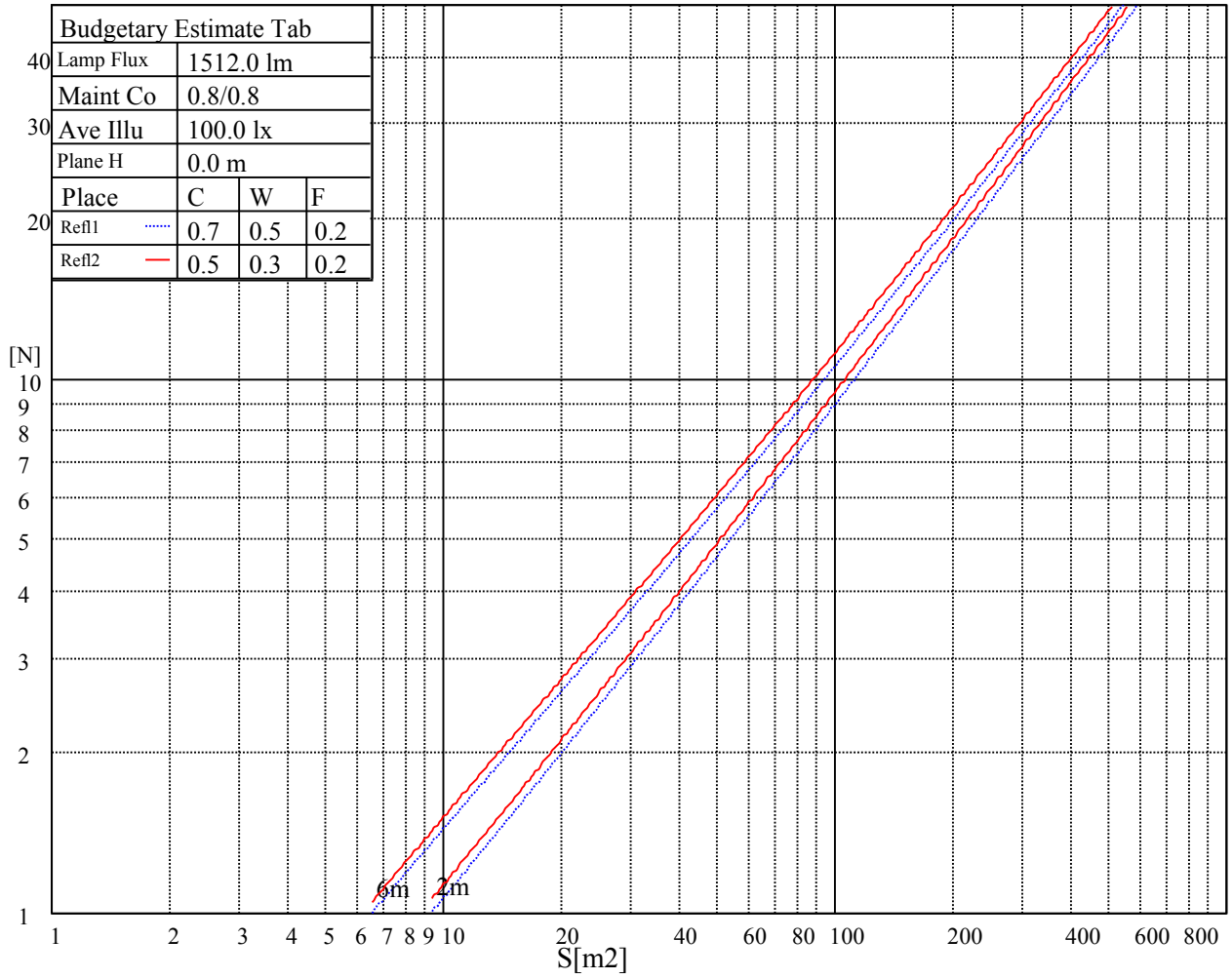
Illumination assessment according UGR

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	2.67	3.58	3.03	3.89	4.20	2.58	3.49	2.94	3.80	4.12
	3H	5.47	6.27	5.85	6.61	6.97	5.39	6.19	5.78	6.53	6.90
	4H	7.06	7.80	7.47	8.15	8.55	6.97	7.71	7.38	8.06	8.45
	6H	8.88	9.56	9.30	9.94	10.33	8.77	9.45	9.19	9.83	10.22
	8H	9.91	10.55	10.35	10.94	11.35	9.79	10.42	10.23	10.82	11.23
	12H	11.61	12.22	12.05	12.60	13.04	11.47	12.08	11.91	12.46	12.89
4H	2H	3.42	4.16	3.82	4.51	4.90	3.35	4.09	3.76	4.45	4.84
	3H	6.50	7.11	6.92	7.52	7.93	6.44	7.05	6.86	7.46	7.87
	4H	8.29	8.83	8.72	9.25	9.70	8.21	8.75	8.65	9.18	9.63
	6H	10.28	10.74	10.75	11.20	11.67	10.20	10.66	10.67	11.11	11.59
	8H	11.42	11.85	11.90	12.31	12.78	11.32	11.75	11.80	12.20	12.68
	12H	13.05	13.42	13.54	13.91	14.38	12.92	13.29	13.41	13.78	14.26
8H	4H	8.95	9.38	9.43	9.83	10.31	8.89	9.32	9.37	9.77	10.25
	6H	11.23	11.57	11.74	12.08	12.56	11.17	11.51	11.68	12.01	12.50
	8H	12.57	12.87	13.10	13.39	13.89	12.49	12.79	13.02	13.31	13.81
	12H	14.35	14.61	14.87	15.11	15.69	14.24	14.50	14.76	15.00	15.58
12H	4H	9.14	9.51	9.63	10.00	10.48	9.08	9.45	9.58	9.94	10.42
	6H	11.73	11.83	12.07	12.31	12.86	11.67	11.78	12.01	12.25	12.80
	8H	13.00	13.26	13.53	13.76	14.34	12.93	13.19	13.46	13.69	14.27

Variation with the observer position at spacings:

S = 1.0H	5.7/-8.0	5.7/-8.0
S = 1.5H	8.0/-6.0	8.0/-6.0
S = 2.0H	9.5/-4.6	9.5/-4.6
Standard tables:	BK2	BK2
Uncorrected UGR	-0.9	-0.9

Budgetary Estimate Table

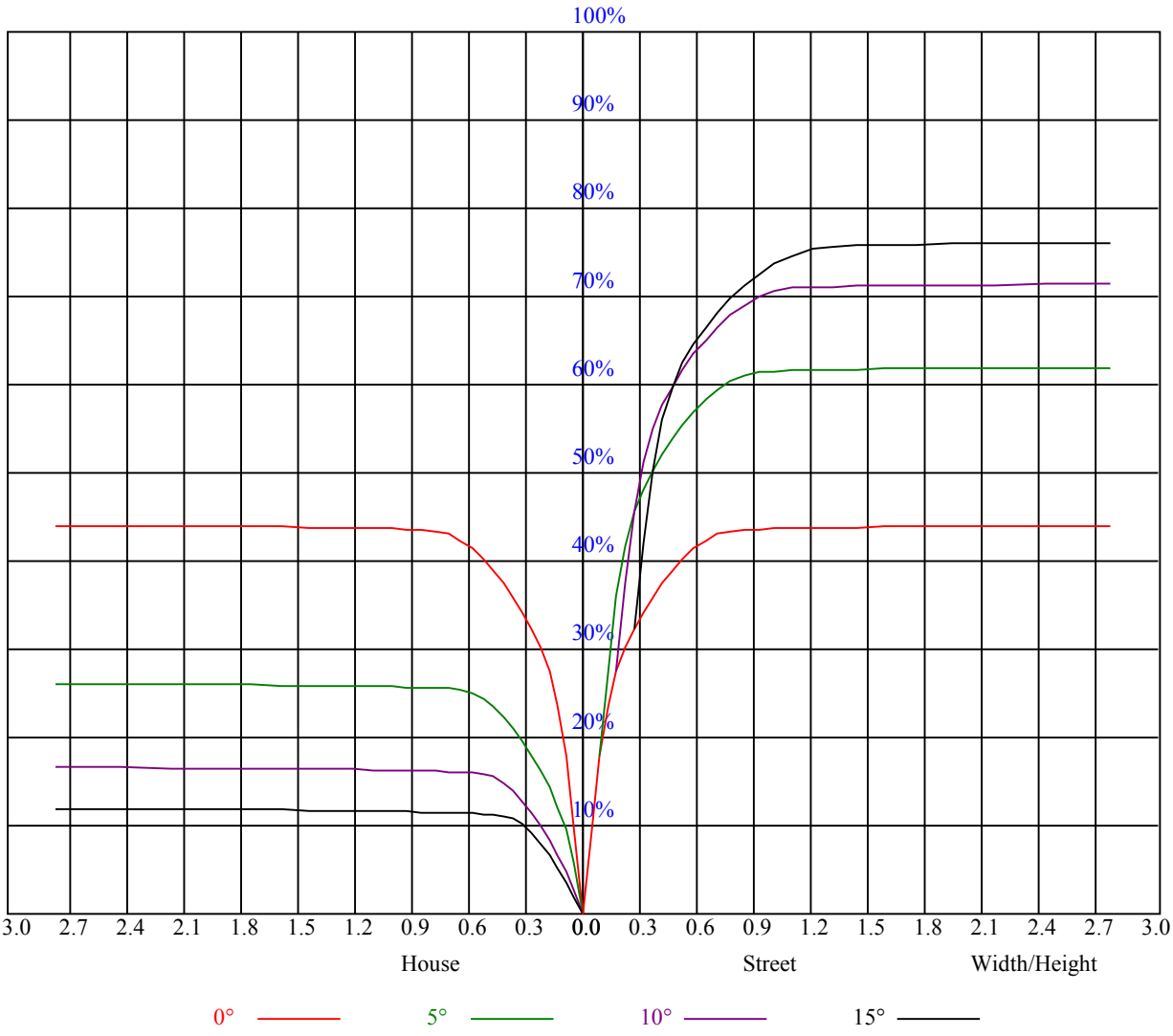


Equipment: GMS1980 Date: 2019/1/11 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.03	1.03	1.03	0.99	0.99	0.99	0.94	0.94	0.94	0.91	0.91	0.91	0.89
1	0.99	0.98	0.96	0.98	0.96	0.94	0.94	0.93	0.91	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	0.88	0.86	0.84	0.85	0.84	0.83	0.81
3	0.90	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.82	0.81	0.83	0.81	0.79	0.78
4	0.86	0.82	0.80	0.85	0.82	0.79	0.83	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.78	0.76	0.74	0.73
6	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
7	0.77	0.73	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
8	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66
9	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.70	0.67	0.66	0.65
10	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.68	0.66	0.64	0.63

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/1/11	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	14951.25	13758.75	12172.50	9911.25	8156.25	6541.88	4741.88	3510.00	2874.38
45.0	14428.13	13488.75	11992.50	10423.13	8820.00	6918.75	5495.63	4190.63	3099.38
90.0	14613.75	14416.88	13651.88	11136.38	10745.44	8929.13	7323.75	5645.81	4129.88
135.0	14400.00	15373.13	15699.38	15159.38	14045.63	12324.38	10361.25	8589.38	7138.13
180.0	14951.25	15592.50	15412.50	14450.63	12318.75	11152.69	9398.25	7325.44	5749.31
225.0	14428.13	14625.00	14085.00	12870.00	11207.81	9549.56	7910.44	6203.25	4641.75
270.0	14613.75	14146.88	12960.00	11317.50	9686.25	7846.88	6142.50	4798.13	3628.13
315.0	14400.00	11215.13	10994.06	9019.13	7378.31	5668.31	4322.81	3092.63	2199.38
360.0	14951.25	13758.75	12172.50	9911.25	8156.25	6541.88	4741.88	3510.00	2874.38

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1793.25	1423.69	1169.44	978.19	852.19	778.50	723.38	687.38	663.75
45.0	2412.56	1629.56	1334.81	1051.31	892.69	810.00	733.50	690.19	665.44
90.0	3029.63	2140.31	1583.44	1111.39	1066.11	890.04	798.47	734.68	686.70
135.0	5062.50	3757.50	2941.88	1905.19	1421.44	1159.88	963.56	833.63	761.06
180.0	4339.69	3008.25	2089.13	1591.31	1075.22	1010.76	878.18	788.40	725.06
225.0	3446.44	2421.00	1755.00	1391.63	1115.94	940.56	837.28	765.00	706.95
270.0	2891.25	1888.88	1489.50	1193.06	996.19	876.38	784.69	723.94	687.38
315.0	1692.00	1261.13	1073.42	924.30	822.71	742.67	702.62	673.65	649.46
360.0	1793.25	1423.69	1169.44	978.19	852.19	778.50	723.38	687.38	663.75

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	642.38	627.19	609.75	595.69	583.31	571.50	560.81	551.25	542.25
45.0	637.88	619.88	604.69	587.81	575.44	564.19	551.81	542.25	533.25
90.0	653.85	633.60	615.21	600.41	587.64	574.82	563.68	552.43	541.13
135.0	706.50	674.44	649.69	628.88	613.13	597.94	584.44	572.63	561.94
180.0	684.39	658.74	635.79	617.06	602.61	587.19	574.82	561.54	549.34
225.0	677.14	654.19	630.84	614.70	599.68	583.20	572.57	560.81	548.72
270.0	660.94	642.38	624.94	609.19	596.81	583.88	572.06	562.50	553.50
315.0	631.35	617.34	603.56	590.63	579.66	568.46	559.01	548.83	538.71
360.0	642.38	627.19	609.75	595.69	583.31	571.50	560.81	551.25	542.25

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	531.56	522.00	513.00	504.56	495.56	485.44	447.19	374.06	288.56
45.0	522.00	513.00	502.88	493.31	484.31	474.75	442.13	369.00	294.19
90.0	532.35	523.07	510.69	500.63	492.36	482.06	469.24	423.06	340.82
135.0	548.44	538.88	529.31	518.63	507.38	498.38	489.38	479.25	455.63
180.0	539.83	529.82	518.68	510.53	500.57	491.01	483.64	474.58	448.20
225.0	540.23	530.55	519.81	509.85	501.75	492.13	483.98	471.04	419.34
270.0	541.13	531.56	522.00	512.44	504.00	494.44	464.06	396.00	320.06
315.0	528.19	517.73	507.21	498.77	489.26	445.89	376.65	296.33	196.14
360.0	531.56	522.00	513.00	504.56	495.56	485.44	447.19	374.06	288.56

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	237.21	110.19	46.18	23.46	17.49	12.71	10.97	10.46	10.07
45.0	238.78	130.67	59.91	26.94	19.80	14.18	11.59	10.97	10.58
90.0	265.84	190.80	111.54	48.88	24.92	17.27	13.50	12.26	10.74
135.0	387.56	312.19	291.94	136.80	70.03	31.78	19.63	13.95	11.87
180.0	380.76	303.47	212.85	119.93	59.96	26.49	19.41	13.67	11.93
225.0	339.08	261.28	174.04	91.29	41.34	22.95	16.93	12.66	11.19
270.0	290.81	150.64	77.40	30.26	21.09	14.91	11.87	11.25	10.80
315.0	118.97	56.25	24.64	18.23	13.33	11.87	10.91	10.35	9.84
360.0	237.21	110.19	46.18	23.46	17.49	12.71	10.97	10.46	10.07

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	9.68	9.28	9.00	8.72	8.38	8.16	7.93	7.65	7.43
45.0	10.24	9.84	9.56	9.17	8.89	8.66	8.38	8.16	7.88
90.0	10.35	10.07	9.56	9.28	9.00	8.72	8.44	8.21	7.93
135.0	10.91	10.46	10.13	9.79	9.45	9.11	8.78	8.55	8.27
180.0	10.69	10.24	9.79	9.45	9.11	8.72	8.49	8.21	7.99
225.0	10.58	10.18	9.73	9.39	9.11	8.66	8.38	8.16	7.93
270.0	10.35	9.96	9.62	9.23	8.83	8.61	8.33	8.04	7.82
315.0	9.56	9.23	8.78	8.55	8.27	7.93	7.71	7.48	7.31
360.0	9.68	9.28	9.00	8.72	8.38	8.16	7.93	7.65	7.43

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	7.20	6.98	6.81	6.69	6.53	6.41	6.30	6.19	6.13
45.0	7.65	7.43	7.20	7.03	6.86	6.69	6.53	6.41	6.30
90.0	7.71	7.48	7.26	7.09	6.92	6.81	6.69	6.58	6.47
135.0	8.04	7.82	7.59	7.37	7.14	7.03	6.86	6.75	6.58
180.0	7.76	7.54	7.31	7.14	6.98	6.86	6.69	6.58	6.47
225.0	7.71	7.54	7.31	7.14	6.98	6.81	6.69	6.58	6.47
270.0	7.59	7.37	7.14	6.98	6.81	6.69	6.53	6.47	6.36
315.0	7.03	6.92	6.75	6.64	6.47	6.36	6.30	6.24	6.13
360.0	7.20	6.98	6.81	6.69	6.53	6.41	6.30	6.19	6.13

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	6.08	5.96	5.91	5.85	5.74	5.74	5.68	5.68	5.63
45.0	6.19	6.13	6.08	5.96	5.85	5.85	5.79	5.74	5.74
90.0	6.36	6.24	6.19	6.13	6.02	5.96	5.91	5.91	5.79
135.0	6.47	6.36	6.30	6.19	6.13	6.08	6.02	5.91	5.85
180.0	6.36	6.24	6.19	6.13	6.08	5.96	5.91	5.85	5.79
225.0	6.36	6.24	6.19	6.08	6.02	5.91	5.85	5.79	5.74
270.0	6.24	6.19	6.08	6.02	5.96	5.91	5.85	5.79	5.79
315.0	6.02	5.96	5.85	5.85	5.79	5.74	5.68	5.63	5.63
360.0	6.08	5.96	5.91	5.85	5.74	5.74	5.68	5.68	5.63

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.57	5.57	5.51	5.51	5.51	5.46	5.46	5.46	5.40
45.0	5.68	5.63	5.63	5.57	5.51	5.51	5.51	5.51	5.46
90.0	5.79	5.74	5.68	5.74	5.68	5.63	5.57	5.57	5.57
135.0	5.79	5.74	5.68	5.68	5.68	5.63	5.63	5.51	5.51
180.0	5.74	5.74	5.68	5.68	5.68	5.57	5.51	5.51	5.46
225.0	5.68	5.68	5.68	5.63	5.57	5.57	5.51	5.51	5.51
270.0	5.74	5.74	5.68	5.68	5.63	5.57	5.57	5.57	5.57
315.0	5.63	5.57	5.51	5.51	5.46	5.46	5.46	5.46	5.46
360.0	5.57	5.57	5.51	5.51	5.51	5.46	5.46	5.46	5.40

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.40	5.40	5.34	5.40	5.29	5.34	5.34	5.29	5.34
45.0	5.46	5.46	5.46	5.40	5.40	5.40	5.34	5.34	5.34
90.0	5.57	5.57	5.57	5.57	5.51	5.40	5.34	5.34	5.34
135.0	5.51	5.51	5.46	5.46	5.46	5.40	5.34	5.34	5.40
180.0	5.46	5.46	5.40	5.40	5.40	5.34	5.34	5.29	5.34
225.0	5.46	5.46	5.40	5.46	5.46	5.40	5.34	5.34	5.34
270.0	5.57	5.51	5.51	5.57	5.46	5.40	5.34	5.34	5.34
315.0	5.46	5.40	5.40	5.34	5.40	5.34	5.34	5.34	5.34
360.0	5.40	5.40	5.34	5.40	5.29	5.34	5.34	5.29	5.34

Intensity data(cd)

C/γ(°)	90.0
0.0	5.29
45.0	5.34
90.0	5.34
135.0	5.34
180.0	5.29
225.0	5.34
270.0	5.34
315.0	5.34
360.0	5.29