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NATA

LumCAT: 2-1120-A3
Luminaire: 99.02.73.172+92.76.365.00

Report No: NATA0100	Voltage(V): 35.3000
Test No: GC2019021802	Current(A): 0.3000
LampCAT: CITIZEN CLU710	Power (W): 10.5900
Lamp flux(lm): 1321.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 71	Width(mm): 71
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1203.05
Efficiency(%): 91.07%
Lumens(lm)/Power(W): 113.97
Central intensity(cd): 16499.530
Maximum intensity(cd): 16499.530
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=10.1
[C90/270]Total=10.1
Field angle(10%Imax): [C0/180]Total=20.0
[C90/270]Total=20.0
Maximum s/h(1/2): C0_180=0.17 C90_270=0.17
Maximum s/h(1/4): C0_180=0.18 C90_270=0.18
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.37%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.529%

Equipment: GMS1980	Date: 2019/2/18	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	16499.531	3.947	3.947	.299%	.328%
1.0	16099.453	30.812	34.759	2.332%	2.889%
2.0	14454.422	55.319	90.078	4.188%	7.487%
3.0	12814.242	73.544	163.622	5.567%	13.601%
4.0	10717.664	81.985	245.607	6.206%	20.415%
5.0	8313.047	79.453	325.059	6.015%	27.020%
6.0	6343.031	72.708	397.768	5.504%	33.063%
7.0	4555.406	60.880	458.647	4.609%	38.124%
8.0	3195.492	48.769	507.417	3.692%	42.177%
9.0	2234.883	38.339	545.755	2.902%	45.364%
10.0	1640.363	31.236	576.992	2.365%	47.961%
11.0	1229.414	25.725	602.716	1.947%	50.099%
12.0	1031.667	23.522	626.238	1.781%	52.054%
13.0	902.904	22.273	648.511	1.686%	53.905%
14.0	801.267	21.257	669.768	1.609%	55.672%
15.0	725.801	20.600	690.368	1.559%	57.385%
16.0	661.205	19.986	710.354	1.513%	59.046%
17.0	609.996	19.558	729.912	1.481%	60.672%
18.0	567.014	19.214	749.126	1.455%	62.269%
19.0	536.843	19.166	768.293	1.451%	63.862%
20.0	511.109	19.170	787.463	1.451%	65.455%
21.0	490.859	19.290	806.753	1.460%	67.059%
22.0	478.413	19.653	826.406	1.488%	68.692%
23.0	468.246	20.063	846.469	1.519%	70.360%
24.0	459.682	20.503	866.972	1.552%	72.064%
25.0	452.510	20.971	887.944	1.588%	73.808%
26.0	446.140	21.447	909.391	1.624%	75.590%
27.0	439.137	21.862	931.253	1.655%	77.407%
28.0	432.640	22.273	953.527	1.686%	79.259%
29.0	425.995	22.648	976.175	1.714%	81.141%
30.0	419.168	22.983	999.158	1.740%	83.052%
31.0	412.622	23.305	1022.462	1.764%	84.989%
32.0	406.041	23.596	1046.058	1.786%	86.950%
33.0	399.136	23.839	1069.897	1.805%	88.932%
34.0	388.230	23.807	1093.704	1.802%	90.911%
35.0	363.213	22.846	1116.549	1.729%	92.810%
36.0	311.330	20.067	1136.617	1.519%	94.478%
37.0	251.473	16.596	1153.213	1.256%	95.857%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	183.192	12.368	1165.581	.936%	96.885%
39.0	104.288	7.197	1172.778	.545%	97.483%
40.0	56.588	3.989	1176.767	.302%	97.815%
41.0	27.949	2.011	1178.777	.152%	97.982%
42.0	14.435	1.059	1179.837	.080%	98.070%
43.0	11.946	0.893	1180.73	.068%	98.144%
44.0	10.420	0.794	1181.524	.060%	98.210%
45.0	8.627	0.669	1182.193	.051%	98.266%
46.0	7.327	0.578	1182.771	.044%	98.314%
47.0	6.469	0.519	1183.29	.039%	98.357%
48.0	5.913	0.482	1183.771	.036%	98.397%
49.0	5.681	0.470	1184.242	.036%	98.436%
50.0	5.449	0.458	1184.699	.035%	98.474%
51.0	5.330	0.454	1185.154	.034%	98.512%
52.0	5.224	0.451	1185.605	.034%	98.550%
53.0	5.140	0.450	1186.055	.034%	98.587%
54.0	5.048	0.448	1186.503	.034%	98.624%
55.0	4.985	0.448	1186.951	.034%	98.662%
56.0	4.936	0.449	1187.4	.034%	98.699%
57.0	4.873	0.448	1187.848	.034%	98.736%
58.0	4.838	0.450	1188.298	.034%	98.774%
59.0	4.788	0.450	1188.748	.034%	98.811%
60.0	4.753	0.451	1189.199	.034%	98.848%
61.0	4.711	0.452	1189.651	.034%	98.886%
62.0	4.669	0.452	1190.103	.034%	98.924%
63.0	4.641	0.453	1190.556	.034%	98.961%
64.0	4.627	0.456	1191.012	.035%	98.999%
65.0	4.605	0.458	1191.47	.035%	99.037%
66.0	4.584	0.459	1191.929	.035%	99.075%
67.0	4.563	0.461	1192.39	.035%	99.114%
68.0	4.542	0.462	1192.852	.035%	99.152%
69.0	4.528	0.464	1193.315	.035%	99.191%
70.0	4.514	0.465	1193.781	.035%	99.229%
71.0	4.493	0.466	1194.247	.035%	99.268%
72.0	4.486	0.468	1194.714	.035%	99.307%
73.0	4.472	0.469	1195.183	.036%	99.346%
74.0	4.465	0.471	1195.654	.036%	99.385%
75.0	4.451	0.471	1196.125	.036%	99.424%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.444	0.473	1196.598	.036%	99.463%
77.0	4.437	0.474	1197.072	.036%	99.503%
78.0	4.430	0.475	1197.547	.036%	99.542%
79.0	4.409	0.475	1198.022	.036%	99.582%
80.0	4.416	0.477	1198.499	.036%	99.621%
81.0	4.416	0.478	1198.977	.036%	99.661%
82.0	4.409	0.479	1199.456	.036%	99.701%
83.0	4.395	0.478	1199.934	.036%	99.741%
84.0	4.395	0.479	1200.413	.036%	99.781%
85.0	4.388	0.479	1200.893	.036%	99.820%
86.0	4.388	0.480	1201.373	.036%	99.860%
87.0	4.380	0.480	1201.852	.036%	99.900%
88.0	4.388	0.481	1202.333	.036%	99.940%
89.0	4.373	0.480	1202.813	.036%	99.980%
90.0	4.380	0.240	1203.053	.018%	100.000%

Zonal flux distribution table

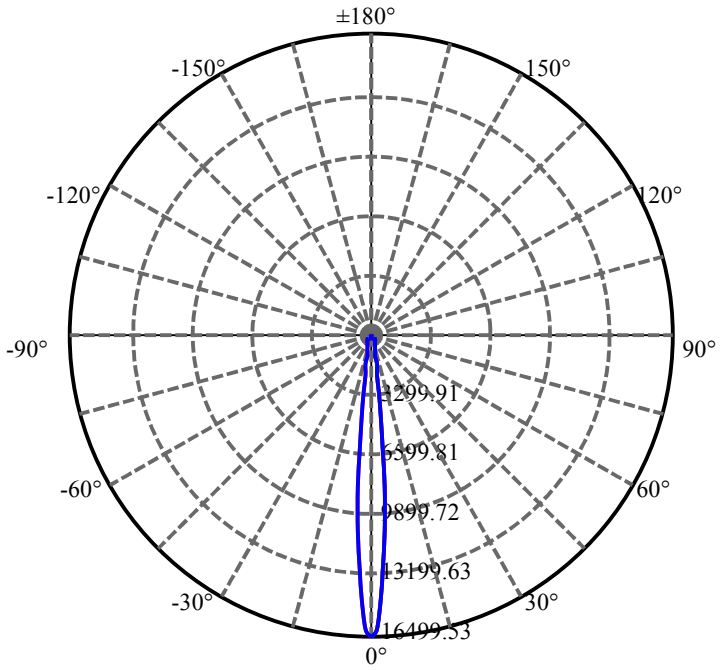
ZONAL LUMEN SUMMARY

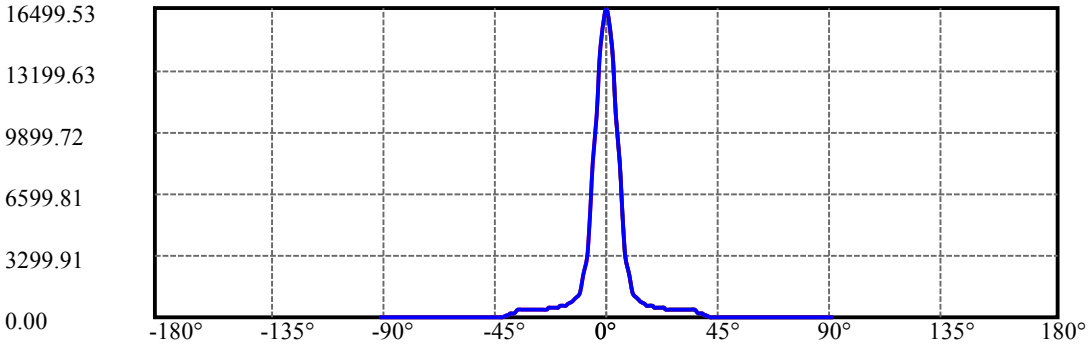
Zone	Lumens	%Lamp	%Fixt
0-30	999.16	75.64%	83.05%
0-40	1176.77	89.08%	97.82%
0-60	1189.20	90.02%	98.85%
0-90	1202.81	91.05%	99.98%
0-120	1202.81	91.05%	99.98%
0-180	1203.05	91.07%	100.00%
60-90	14.07	1.06%	1.17%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.39	962.44	72.86%	80.00%

ZONAL LUMEN SUMMARY

0-10	576.99
10-20	210.47
20-30	211.70
30-40	177.61
40-50	7.93
50-60	4.50
60-70	4.58
70-80	4.72
80-90	4.31
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):

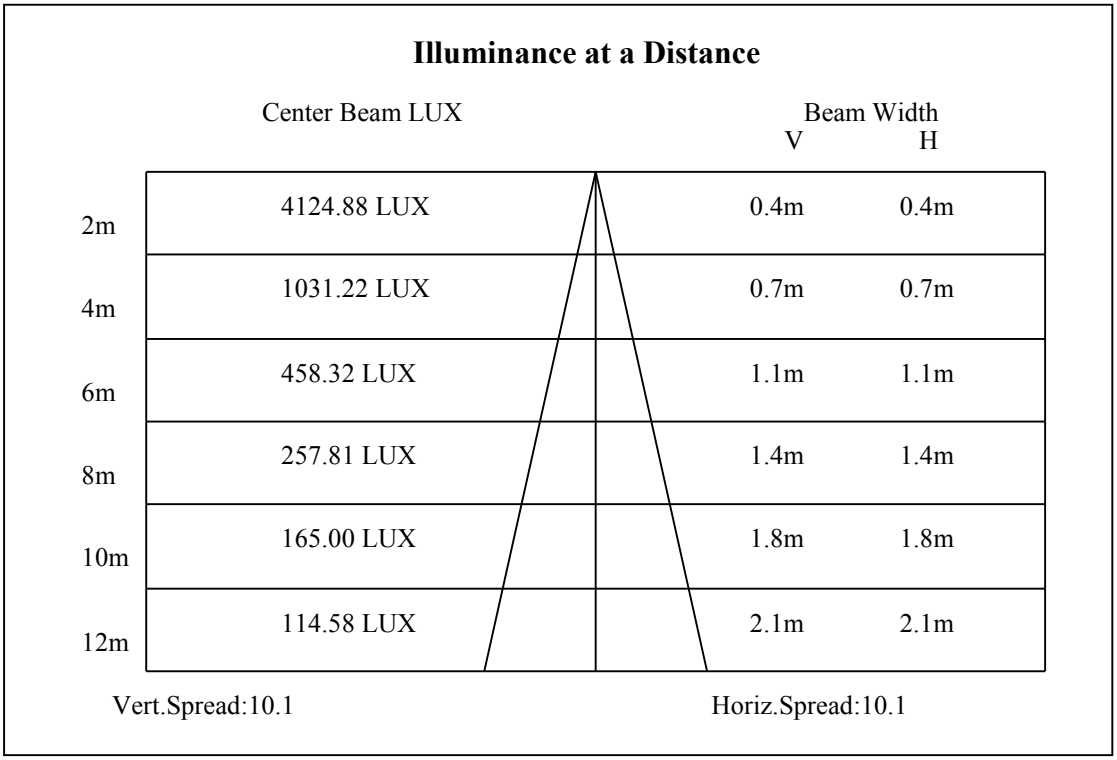
C0/C180:

C90/C270:

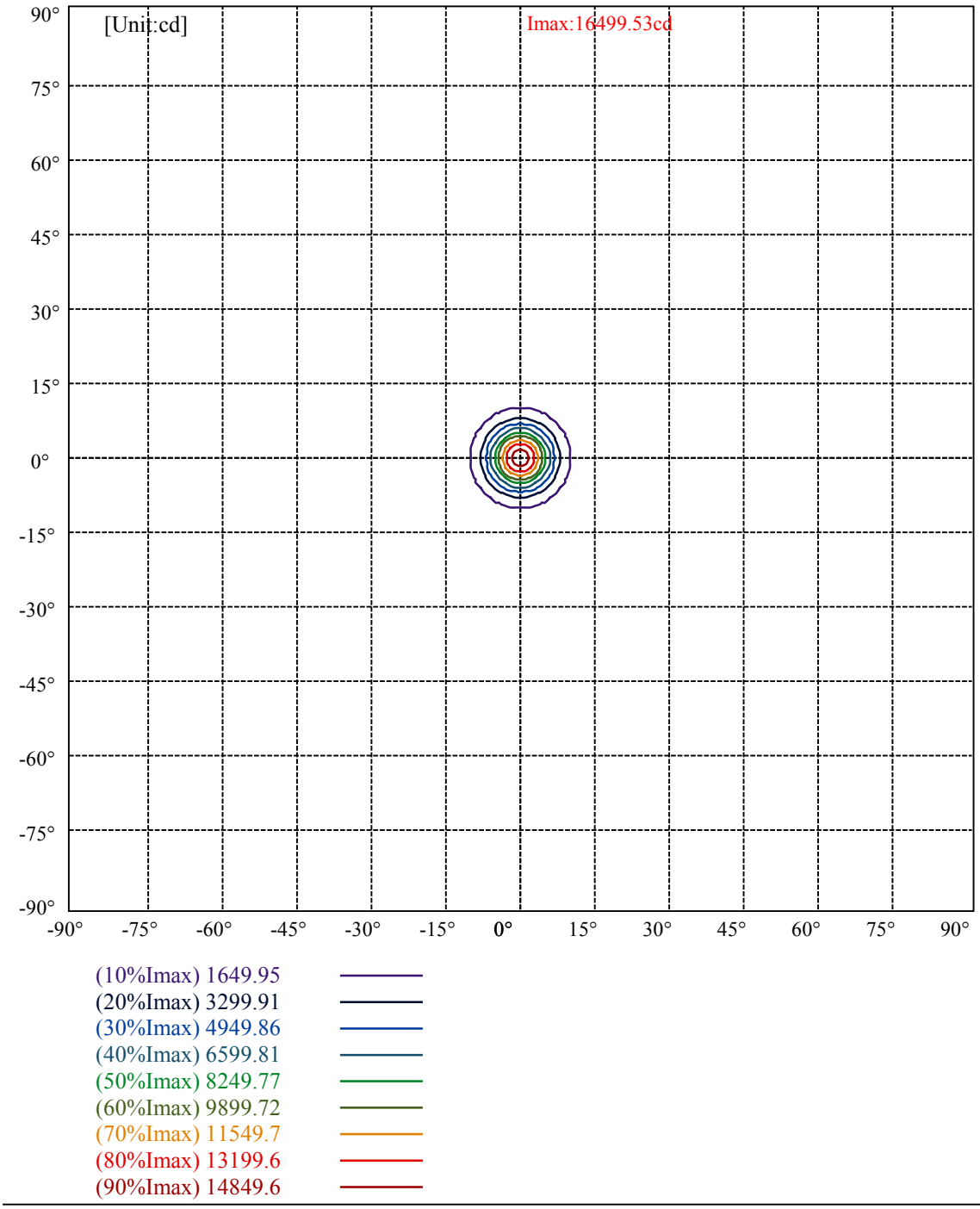
Field angle(10%Imax):C0/180Left:10.0 Right:10.0
:C90/270Left:10.0 Right:10.0

Beam Angle(50%Imax):C0/180Left:5.0 Right:5.0
:C90/270Left:5.0 Right:5.0

Lux distance Curve



ISO-Intensity(V-H)

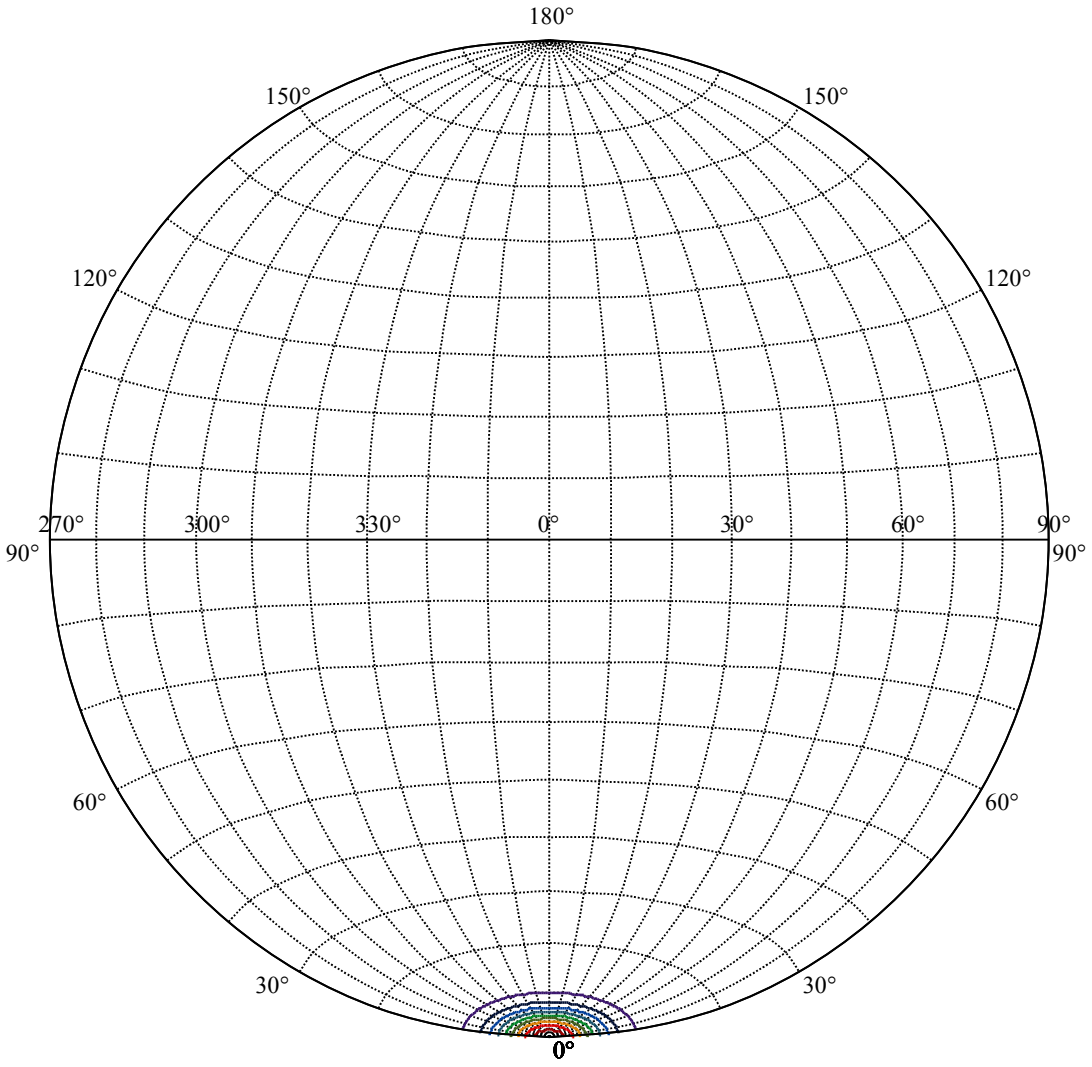


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/18
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



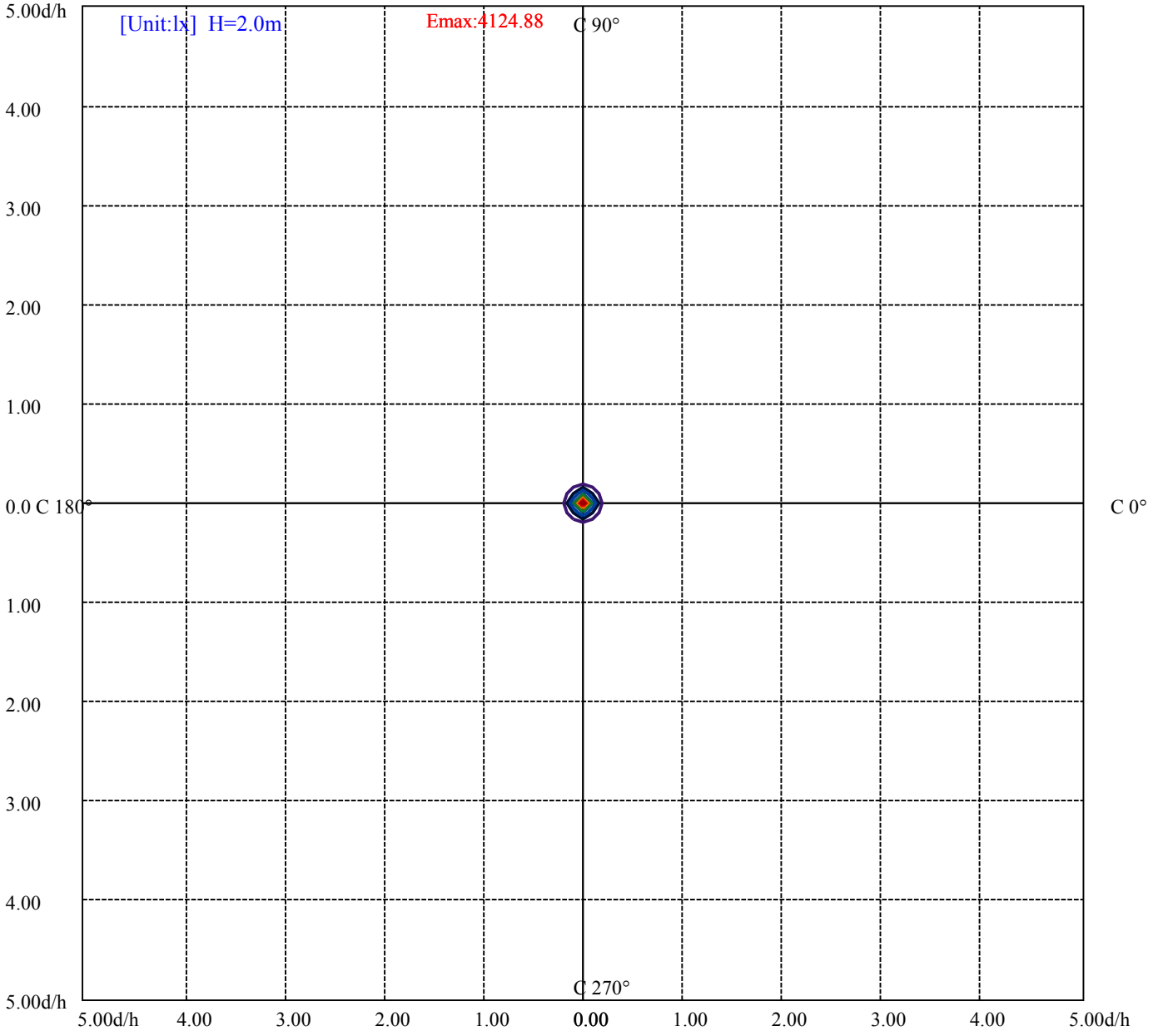
House [Unit:cd] Road

Imax:16499.53

(10%Imax) 1649.95
(20%Imax) 3299.91
(30%Imax) 4949.86
(40%Imax) 6599.81
(50%Imax) 8249.77
(60%Imax) 9899.72
(70%Imax) 11549.7
(80%Imax) 13199.6
(90%Imax) 14849.6

Equipment: GMS1980 Date: 2019/2/18 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO illuminance diagram

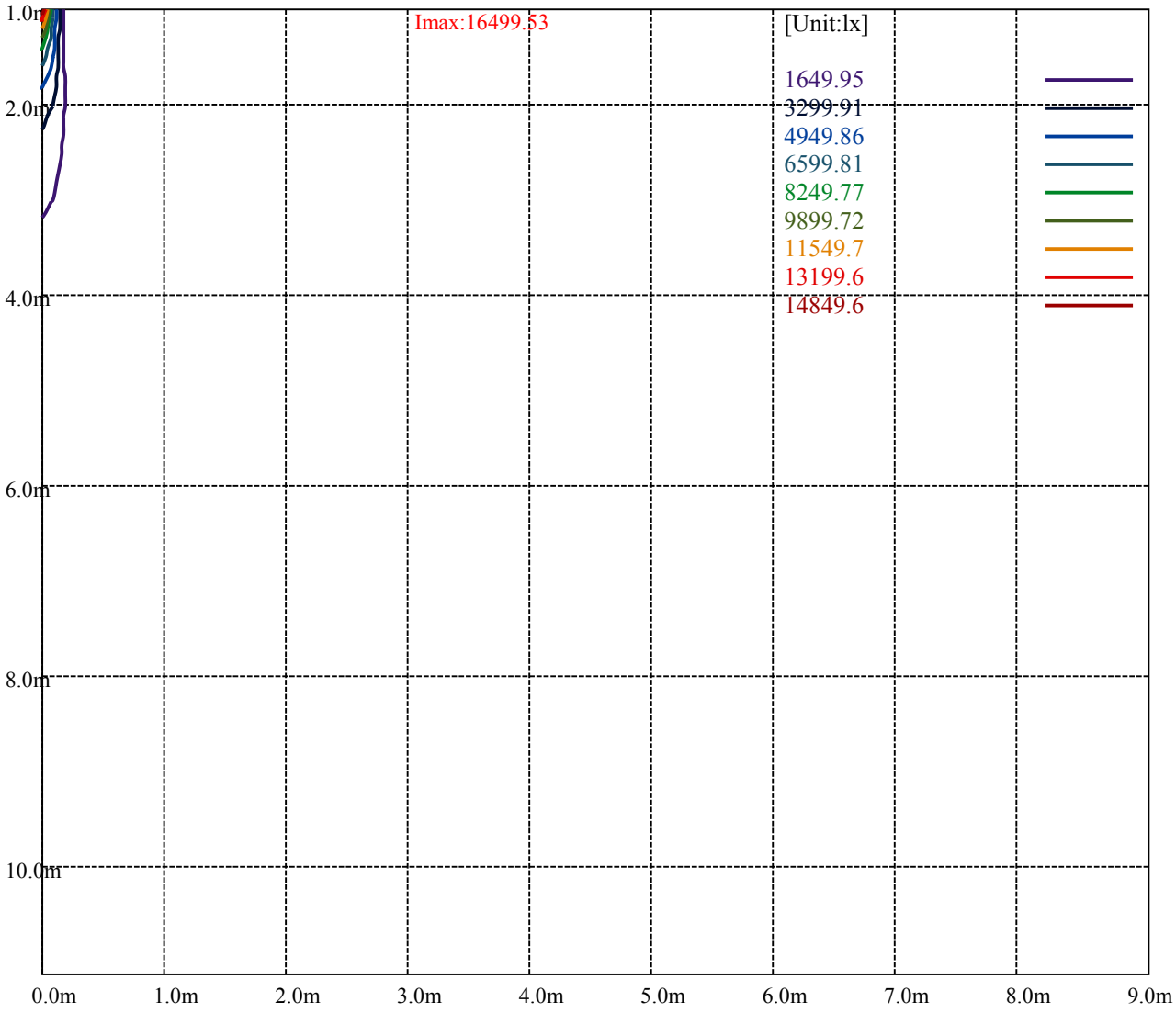


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/18
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/18
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

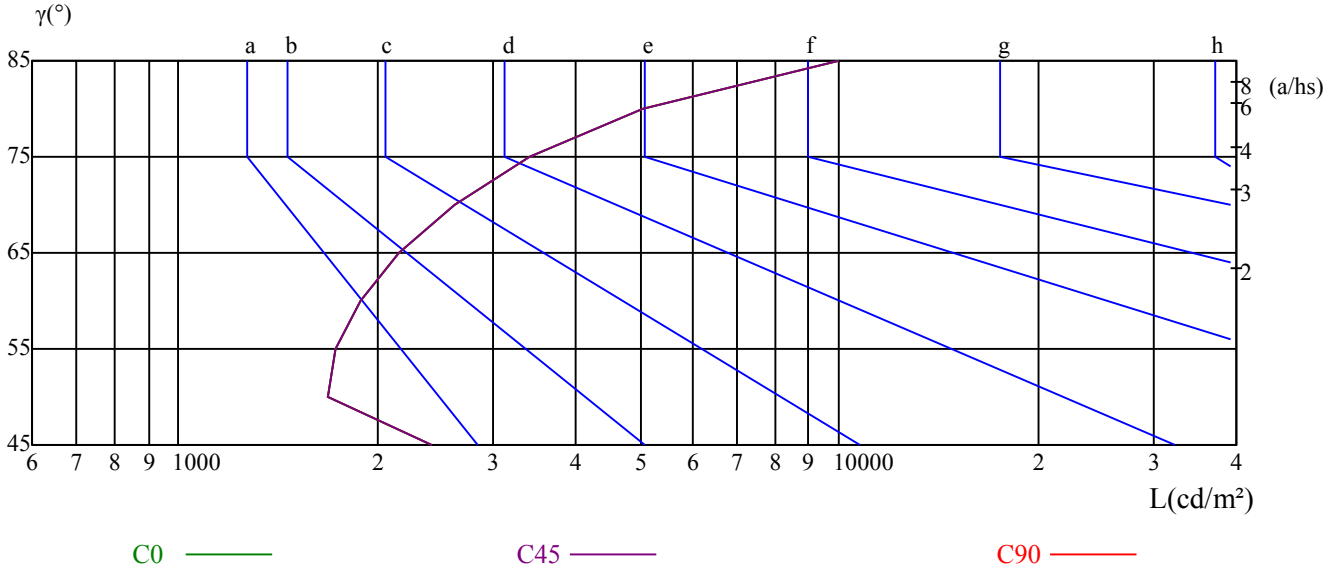
γ	45	50	55	60	65	70	75	80	85
C0	2420	1682	1724	1886	2162	2618	3411	5044	9986
C45	2420	1682	1724	1886	2162	2618	3411	5044	9986
C90	2420	1682	1724	1886	2162	2618	3411	5044	9986

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2162	2162	2162	3411	3411	3411	9986	9986	9986

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

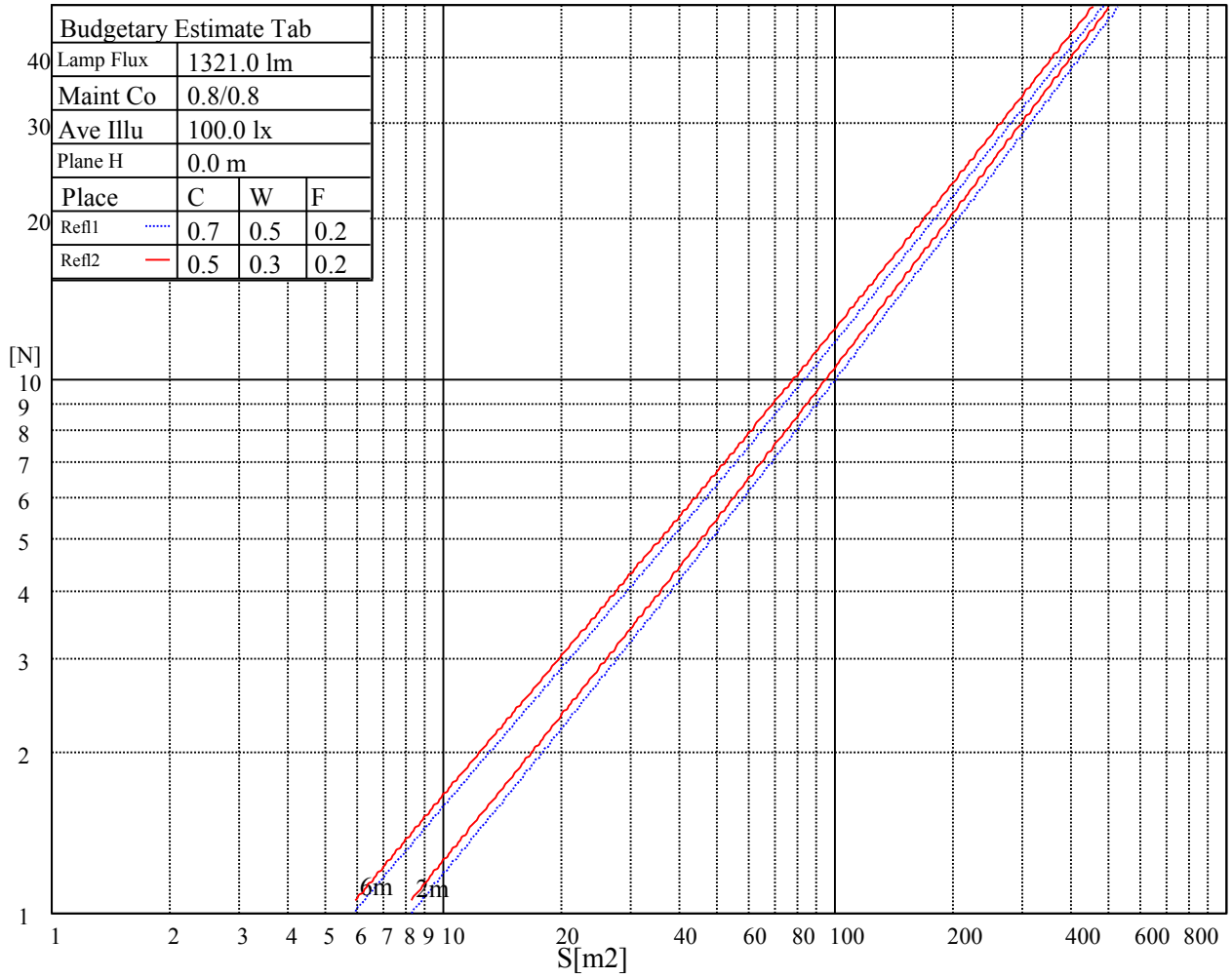
Luminance Limitting Curve



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	1.63	2.53	1.99	2.84	3.16	1.64	2.54	2.00	2.85	3.17
	3H	4.85	5.65	5.23	5.98	6.35	4.85	5.65	5.23	5.98	6.35
	4H	6.60	7.33	7.01	7.69	8.08	6.60	7.33	7.00	7.69	8.08
	6H	8.57	9.25	8.99	9.62	10.02	8.57	9.24	8.99	9.62	10.02
	8H	9.67	10.30	10.11	10.69	11.10	9.66	10.29	10.10	10.69	11.10
	12H	11.44	12.04	11.88	12.43	12.86	11.44	12.04	11.87	12.42	12.85
4H	2H	2.53	3.27	2.94	3.62	4.01	2.54	3.27	2.94	3.63	4.02
	3H	6.00	6.60	6.42	7.01	7.42	5.99	6.60	6.41	7.01	7.41
	4H	7.91	8.45	8.35	8.88	9.33	7.91	8.45	8.35	8.87	9.32
	6H	10.06	10.52	10.53	10.97	11.44	10.05	10.50	10.52	10.96	11.43
	8H	11.25	11.68	11.73	12.13	12.60	11.24	11.67	11.72	12.12	12.59
	12H	12.91	13.28	13.41	13.77	14.25	12.91	13.27	13.40	13.76	14.24
8H	4H	8.64	9.07	9.12	9.52	10.00	8.64	9.07	9.12	9.52	9.99
	6H	11.06	11.39	11.57	11.90	12.39	11.05	11.38	11.56	11.89	12.37
	8H	12.44	12.74	12.98	13.26	13.76	12.43	12.73	12.96	13.25	13.75
	12H	14.24	14.49	14.76	14.99	15.58	14.23	14.49	14.76	14.99	15.57
12H	4H	8.85	9.22	9.34	9.71	10.19	8.85	9.21	9.34	9.70	10.18
	6H	11.56	11.67	11.91	12.15	12.70	11.55	11.66	11.90	12.14	12.69
	8H	12.89	13.14	13.41	13.64	14.23	12.88	13.13	13.40	13.63	14.22
Variation with the observer position at spacings:											
S = 1.0H		5.2/-9.2					5.2/-9.2				
S = 1.5H		7.6/-7.1					7.6/-7.1				
S = 2.0H		9.2/-5.4					9.2/-5.4				
Standard tables:		BK2					BK2				
Uncorrected UGR		-0.5					-0.5				

Budgetary Estimate Table

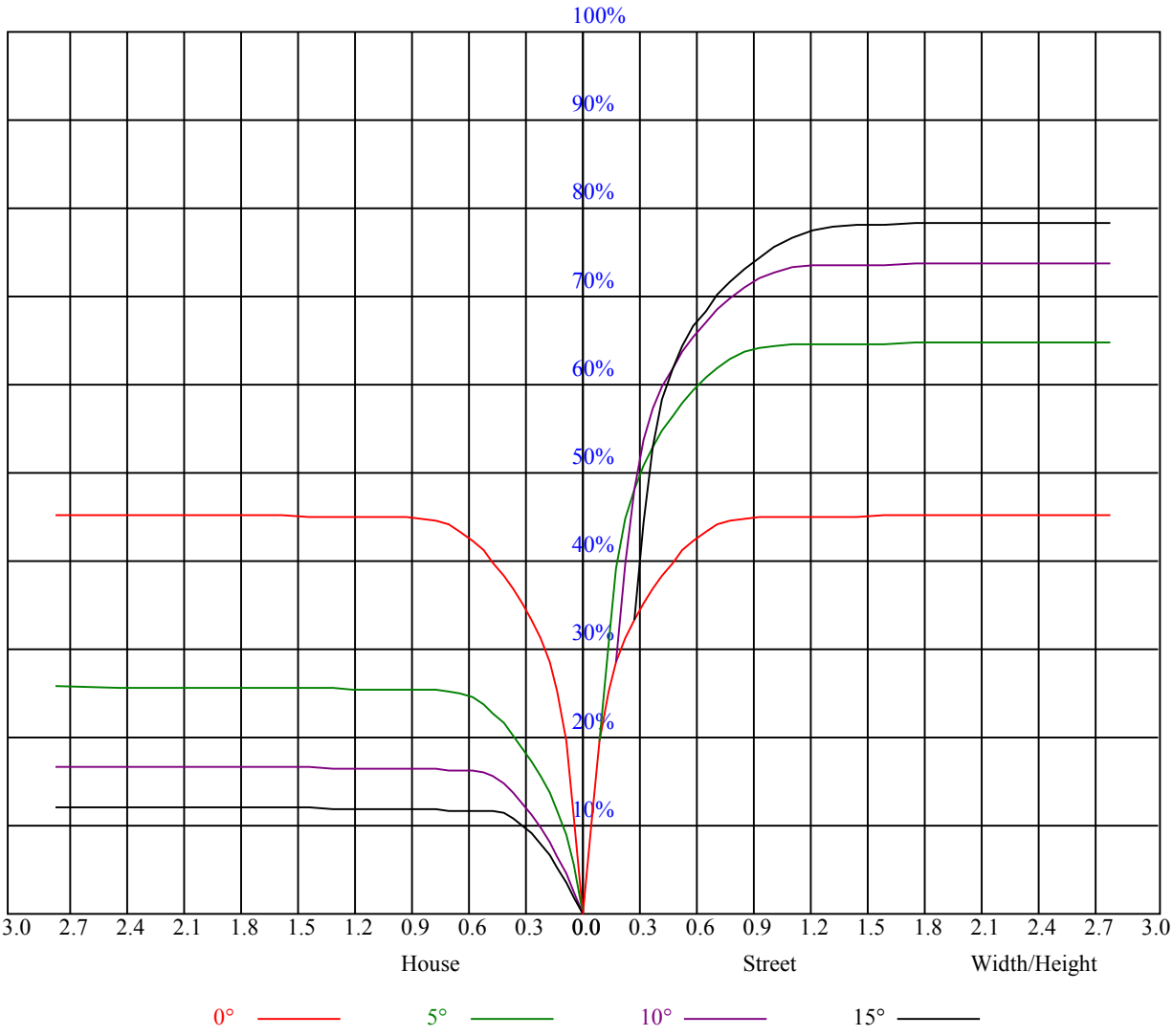


Equipment: GMS1980 Date: 2019/2/18 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.09	1.09	1.09	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.02	1.00	0.99	1.00	0.99	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.89	0.87
2	0.97	0.94	0.92	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.88	0.87	0.88	0.86	0.85	0.84
3	0.93	0.89	0.86	0.92	0.88	0.86	0.89	0.87	0.84	0.87	0.85	0.83	0.85	0.83	0.82	0.81
4	0.89	0.85	0.82	0.88	0.84	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.83	0.81	0.79	0.78
5	0.85	0.81	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.80	0.78	0.76	0.75
6	0.82	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.78	0.76	0.74	0.73
7	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.74	0.72	0.71
8	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.74	0.72	0.70	0.69
9	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.72	0.70	0.68	0.67
10	0.73	0.69	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.65

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/2/18	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	16104.38	17229.38	17476.88	16616.25	14956.88	12245.63	9894.38	7588.13	5495.63
45.0	16509.38	17111.25	16627.50	15311.25	13438.13	10726.88	8465.63	6283.13	4224.38
90.0	16610.63	15890.63	14253.75	11025.56	9945.56	7516.69	5519.81	3723.19	2521.69
135.0	16773.75	15480.00	13477.50	11407.50	9225.00	6581.25	4775.63	3397.50	2880.00
180.0	16104.38	14366.25	11142.00	9468.00	7269.19	5096.25	3608.44	2490.75	1812.38
225.0	16509.38	15159.38	11129.63	10571.63	8331.75	5720.63	4249.13	2865.38	1935.56
270.0	16610.63	16503.75	15215.63	13483.13	11385.00	8583.75	6451.88	4635.00	3082.50
315.0	16773.75	17055.00	16312.50	14630.63	11189.81	10033.31	7779.38	5460.19	3611.81
360.0	16104.38	17229.38	17476.88	16616.25	14956.88	12245.63	9894.38	7588.13	5495.63

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3459.38	2846.25	1684.69	1219.50	1027.13	907.31	807.19	722.25	668.25
45.0	2908.13	1969.88	1428.19	1154.25	974.81	860.63	781.88	703.69	632.25
90.0	1854.00	1399.50	1108.41	980.10	873.17	771.64	705.26	649.07	597.49
135.0	1766.25	1418.06	1189.13	1018.69	898.31	815.06	734.06	662.63	609.75
180.0	1438.88	1110.99	1008.28	902.93	819.34	730.69	671.79	621.79	571.39
225.0	1549.69	1118.53	1060.65	922.44	824.91	735.92	668.93	622.80	584.83
270.0	2425.50	1572.19	1252.13	1018.13	897.75	803.25	717.75	653.63	613.69
315.0	2477.25	1687.50	1103.85	1037.31	907.82	785.64	719.55	653.79	602.33
360.0	3459.38	2846.25	1684.69	1219.50	1027.13	907.31	807.19	722.25	668.25

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	606.94	569.81	539.44	512.44	497.81	486.00	473.63	464.06	456.75
45.0	579.38	538.88	503.44	484.31	471.38	461.25	453.94	447.19	439.88
90.0	554.06	522.45	496.80	472.33	459.28	450.62	443.53	437.74	433.13
135.0	564.19	531.00	505.13	482.63	469.69	461.25	453.94	450.00	446.06
180.0	540.17	515.70	492.98	480.09	470.81	462.15	457.09	450.84	444.09
225.0	548.33	525.32	506.70	488.31	477.17	468.17	460.07	453.88	448.93
270.0	576.56	550.69	526.50	505.69	492.19	479.81	468.56	460.13	453.38
315.0	566.49	540.90	517.89	501.08	488.98	476.72	466.71	456.24	446.91
360.0	606.94	569.81	539.44	512.44	497.81	486.00	473.63	464.06	456.75

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	445.50	438.19	432.00	424.69	418.50	413.44	407.81	402.19	396.56
45.0	433.69	428.06	422.44	416.81	410.06	404.44	398.25	392.06	385.31
90.0	428.12	422.49	416.14	410.06	404.49	398.08	391.61	384.92	360.62
135.0	440.44	433.13	428.63	419.06	411.19	405.00	396.56	387.00	353.81
180.0	437.29	430.37	421.14	414.90	407.76	398.98	390.77	360.84	298.41
225.0	443.19	436.28	429.02	421.09	413.66	405.56	398.03	382.44	335.08
270.0	445.50	439.88	433.69	427.50	421.31	415.69	408.38	400.50	388.13
315.0	439.37	432.73	424.91	419.23	414.00	407.14	401.68	395.89	387.79
360.0	445.50	438.19	432.00	424.69	418.50	413.44	407.81	402.19	396.56

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	385.31	349.88	284.06	201.38	131.18	70.71	23.46	14.40	12.77
45.0	365.63	316.69	286.31	165.32	102.38	46.41	17.16	14.85	12.94
90.0	294.02	229.73	163.18	83.59	35.38	16.82	14.57	12.77	11.14
135.0	290.81	210.54	132.98	65.59	25.99	14.46	12.54	11.19	9.68
180.0	220.44	148.84	78.02	29.31	13.56	11.87	10.52	9.23	7.71
225.0	253.58	182.14	113.40	44.04	18.06	12.49	11.14	9.90	8.49
270.0	338.06	289.69	190.35	113.85	55.80	22.33	12.49	11.19	10.01
315.0	342.79	284.29	217.24	131.23	70.37	28.52	13.61	12.04	10.63
360.0	385.31	349.88	284.06	201.38	131.18	70.71	23.46	14.40	12.77

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	11.08	9.28	7.43	6.47	6.13	5.74	5.51	5.40	5.29
45.0	10.58	8.55	7.09	6.58	6.19	5.63	5.46	5.40	5.29
90.0	9.00	7.54	6.98	5.79	5.51	5.34	5.23	5.18	5.06
135.0	7.54	6.64	6.24	5.57	5.40	5.29	5.23	5.12	5.06
180.0	6.41	6.02	5.57	5.40	5.29	5.18	5.12	5.06	5.01
225.0	6.92	6.30	5.85	5.40	5.34	5.23	5.12	5.06	5.01
270.0	8.33	6.86	6.19	5.96	5.68	5.51	5.46	5.23	5.18
315.0	9.17	7.43	6.41	6.13	5.91	5.68	5.51	5.34	5.23
360.0	11.08	9.28	7.43	6.47	6.13	5.74	5.51	5.40	5.29

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	5.23	5.12	5.06	5.01	4.95	4.89	4.84	4.78	4.73
45.0	5.18	5.06	5.01	4.95	4.95	4.89	4.84	4.78	4.73
90.0	5.01	4.95	4.89	4.84	4.84	4.78	4.73	4.67	4.67
135.0	4.95	4.95	4.89	4.78	4.78	4.73	4.73	4.67	4.61
180.0	4.89	4.84	4.84	4.78	4.73	4.67	4.67	4.67	4.61
225.0	4.89	4.84	4.84	4.78	4.73	4.73	4.67	4.61	4.61
270.0	5.06	5.01	4.95	4.89	4.84	4.78	4.78	4.73	4.67
315.0	5.18	5.12	5.01	4.95	4.89	4.84	4.78	4.78	4.73
360.0	5.23	5.12	5.06	5.01	4.95	4.89	4.84	4.78	4.73

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.73	4.73	4.67	4.61	4.61	4.61	4.56	4.56	4.50
45.0	4.73	4.67	4.67	4.67	4.61	4.61	4.56	4.56	4.56
90.0	4.61	4.61	4.61	4.56	4.56	4.50	4.50	4.50	4.50
135.0	4.61	4.61	4.56	4.56	4.50	4.50	4.50	4.44	4.44
180.0	4.56	4.56	4.56	4.50	4.50	4.50	4.50	4.50	4.44
225.0	4.56	4.56	4.56	4.56	4.56	4.50	4.50	4.50	4.50
270.0	4.67	4.61	4.61	4.61	4.56	4.56	4.56	4.56	4.50
315.0	4.67	4.67	4.61	4.61	4.61	4.56	4.56	4.50	4.50
360.0	4.73	4.73	4.67	4.61	4.61	4.61	4.56	4.56	4.50

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	4.50	4.50	4.44	4.44	4.44	4.44	4.44	4.39	4.44
45.0	4.56	4.50	4.50	4.50	4.44	4.44	4.44	4.44	4.44
90.0	4.50	4.50	4.44	4.44	4.44	4.44	4.39	4.39	4.39
135.0	4.44	4.44	4.44	4.44	4.44	4.44	4.39	4.39	4.39
180.0	4.44	4.39	4.44	4.44	4.44	4.39	4.44	4.39	4.39
225.0	4.44	4.44	4.44	4.44	4.44	4.44	4.44	4.39	4.39
270.0	4.50	4.50	4.50	4.44	4.44	4.44	4.44	4.44	4.44
315.0	4.50	4.50	4.50	4.44	4.44	4.44	4.44	4.44	4.44
360.0	4.50	4.50	4.44	4.44	4.44	4.44	4.44	4.39	4.44

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.44	4.44	4.39	4.39	4.39	4.39	4.39	4.39	4.39
45.0	4.44	4.44	4.39	4.39	4.39	4.39	4.39	4.39	4.39
90.0	4.44	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
135.0	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
180.0	4.39	4.39	4.39	4.39	4.39	4.39	4.33	4.39	4.33
225.0	4.44	4.44	4.39	4.39	4.39	4.39	4.39	4.39	4.39
270.0	4.39	4.39	4.44	4.44	4.39	4.39	4.39	4.39	4.33
315.0	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
360.0	4.44	4.44	4.39	4.39	4.39	4.39	4.39	4.39	4.39

Intensity data(cd)

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