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: 2-1121-A4
Luminaire: 99.02.73.172+92.76.365.00

Report No: NATA0100	Voltage(V): 35.3000
Test No: GC2019021803	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): 1194.34
Efficiency(%): 90.41%
Lumens(lm)/Power(W): 112.89
Central intensity(cd): 5232.797
Maximum intensity(cd): 5232.797
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=22.2
[C90/270]Total=22.2
Field angle(10%Imax): [C0/180]Total=42.9
[C90/270]Total=42.9
Maximum s/h(1/2): C0_180=0.38 C90_270=0.38
Maximum s/h(1/4): C0_180=0.36 C90_270=0.36
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.50%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.676%

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	5232.797	1.252	1.252	.095%	.105%
1.0	5200.453	9.953	11.205	.753%	.938%
2.0	5118.117	19.588	30.792	1.483%	2.578%
3.0	4979.742	28.580	59.372	2.163%	4.971%
4.0	4796.859	36.694	96.066	2.778%	8.043%
5.0	4584.586	43.818	139.884	3.317%	11.712%
6.0	4345.594	49.812	189.696	3.771%	15.883%
7.0	4043.813	54.043	243.738	4.091%	20.408%
8.0	3749.484	57.224	300.962	4.332%	25.199%
9.0	3399.398	58.316	359.278	4.415%	30.082%
10.0	3004.453	57.212	416.49	4.331%	34.872%
11.0	2646.492	55.376	471.866	4.192%	39.509%
12.0	2271.867	51.798	523.664	3.921%	43.846%
13.0	1887.609	46.564	570.228	3.525%	47.744%
14.0	1544.625	40.978	611.206	3.102%	51.175%
15.0	1295.880	36.780	647.987	2.784%	54.255%
16.0	1017.745	30.763	678.75	2.329%	56.831%
17.0	881.128	28.250	707	2.139%	59.196%
18.0	743.407	25.192	732.192	1.907%	61.305%
19.0	646.980	23.099	755.29	1.749%	63.239%
20.0	582.595	21.851	777.141	1.654%	65.069%
21.0	537.581	21.126	798.268	1.599%	66.838%
22.0	507.368	20.843	819.11	1.578%	68.583%
23.0	487.498	20.888	839.999	1.581%	70.332%
24.0	472.352	21.068	861.067	1.595%	72.096%
25.0	459.302	21.286	882.353	1.611%	73.878%
26.0	450.155	21.640	903.993	1.638%	75.690%
27.0	441.035	21.957	925.95	1.662%	77.528%
28.0	432.689	22.276	948.226	1.686%	79.393%
29.0	424.807	22.585	970.811	1.710%	81.284%
30.0	418.036	22.921	993.732	1.735%	83.203%
31.0	410.625	23.192	1016.924	1.756%	85.145%
32.0	404.459	23.504	1040.427	1.779%	87.113%
33.0	397.737	23.755	1064.182	1.798%	89.102%
34.0	380.109	23.309	1087.491	1.764%	91.054%
35.0	349.763	22.000	1109.491	1.665%	92.896%
36.0	305.550	19.695	1129.186	1.491%	94.545%
37.0	236.573	15.613	1144.799	1.182%	95.852%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	164.018	11.074	1155.872	.838%	96.779%
39.0	96.666	6.671	1162.543	.505%	97.338%
40.0	48.382	3.410	1165.954	.258%	97.623%
41.0	25.088	1.805	1167.759	.137%	97.774%
42.0	16.538	1.213	1168.972	.092%	97.876%
43.0	14.309	1.070	1170.042	.081%	97.966%
44.0	12.488	0.951	1170.993	.072%	98.045%
45.0	10.498	0.814	1171.807	.062%	98.113%
46.0	8.747	0.690	1172.497	.052%	98.171%
47.0	7.488	0.601	1173.098	.045%	98.221%
48.0	6.785	0.553	1173.651	.042%	98.268%
49.0	6.384	0.528	1174.179	.040%	98.312%
50.0	6.131	0.515	1174.694	.039%	98.355%
51.0	6.012	0.512	1175.207	.039%	98.398%
52.0	5.892	0.509	1175.716	.039%	98.441%
53.0	5.773	0.506	1176.221	.038%	98.483%
54.0	5.681	0.504	1176.725	.038%	98.525%
55.0	5.597	0.503	1177.228	.038%	98.567%
56.0	5.498	0.500	1177.728	.038%	98.609%
57.0	5.428	0.499	1178.227	.038%	98.651%
58.0	5.379	0.500	1178.728	.038%	98.693%
59.0	5.309	0.499	1179.227	.038%	98.735%
60.0	5.231	0.497	1179.723	.038%	98.776%
61.0	5.175	0.496	1180.22	.038%	98.818%
62.0	5.133	0.497	1180.717	.038%	98.859%
63.0	5.084	0.497	1181.213	.038%	98.901%
64.0	5.041	0.497	1181.71	.038%	98.943%
65.0	4.992	0.496	1182.206	.038%	98.984%
66.0	4.957	0.497	1182.703	.038%	99.026%
67.0	4.915	0.496	1183.199	.038%	99.067%
68.0	4.873	0.495	1183.695	.038%	99.109%
69.0	4.845	0.496	1184.191	.038%	99.150%
70.0	4.809	0.496	1184.686	.038%	99.192%
71.0	4.774	0.495	1185.181	.037%	99.233%
72.0	4.739	0.494	1185.675	.037%	99.275%
73.0	4.725	0.496	1186.171	.038%	99.316%
74.0	4.697	0.495	1186.666	.037%	99.358%
75.0	4.690	0.497	1187.163	.038%	99.399%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.648	0.495	1187.657	.037%	99.441%
77.0	4.641	0.496	1188.153	.038%	99.482%
78.0	4.605	0.494	1188.647	.037%	99.523%
79.0	4.605	0.496	1189.143	.038%	99.565%
80.0	4.584	0.495	1189.638	.037%	99.606%
81.0	4.577	0.496	1190.134	.038%	99.648%
82.0	4.563	0.496	1190.629	.038%	99.689%
83.0	4.542	0.494	1191.124	.037%	99.731%
84.0	4.549	0.496	1191.62	.038%	99.772%
85.0	4.528	0.495	1192.115	.037%	99.814%
86.0	4.528	0.495	1192.61	.037%	99.855%
87.0	4.514	0.494	1193.104	.037%	99.897%
88.0	4.521	0.495	1193.6	.038%	99.938%
89.0	4.500	0.493	1194.093	.037%	99.979%
90.0	4.493	0.246	1194.339	.019%	100.000%

Zonal flux distribution table

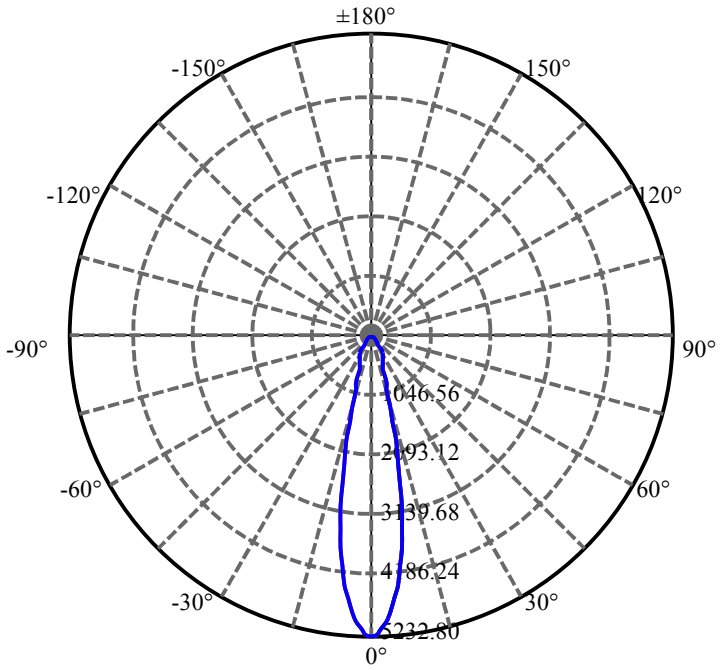
ZONAL LUMEN SUMMARY

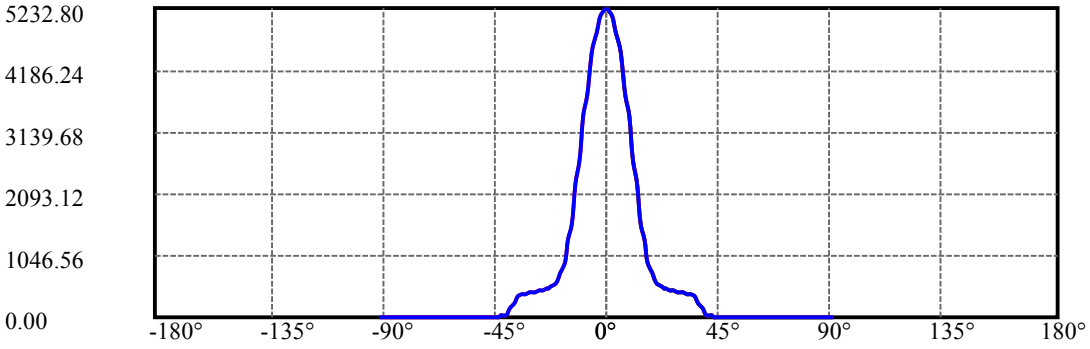
Zone	Lumens	%Lamp	%Fixt
0-30	993.73	75.23%	83.20%
0-40	1165.95	88.26%	97.62%
0-60	1179.72	89.31%	98.78%
0-90	1194.09	90.39%	99.98%
0-120	1194.09	90.39%	99.98%
0-180	1194.34	90.41%	100.00%
60-90	14.87	1.13%	1.24%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.32	955.47	72.33%	80.00%

ZONAL LUMEN SUMMARY

0-10	416.49
10-20	360.65
20-30	216.59
30-40	172.22
40-50	8.74
50-60	5.03
60-70	4.96
70-80	4.95
80-90	4.46
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:

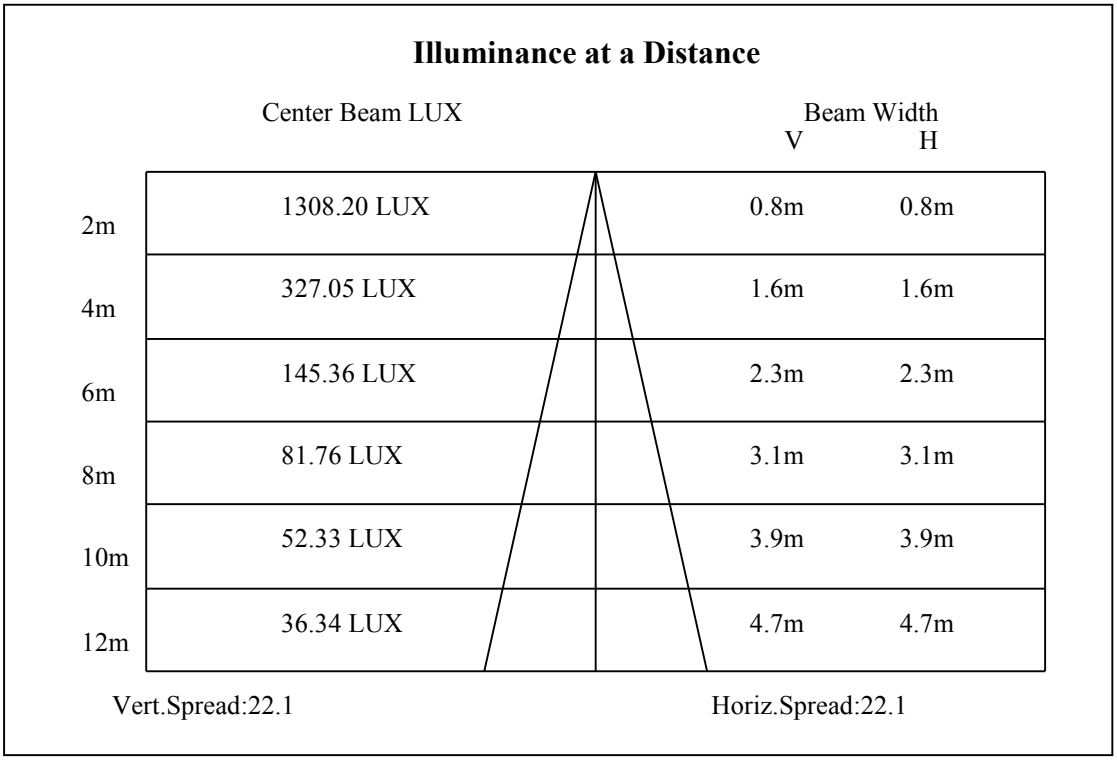
C90/C270:

Field angle(10%Imax):C0/180Left:21.5 Right:21.5
:C90/270Left:21.5 Right:21.5

Beam Angle(50%Imax):C0/180Left:11.1 Right:11.1
:C90/270Left:11.1 Right:11.1

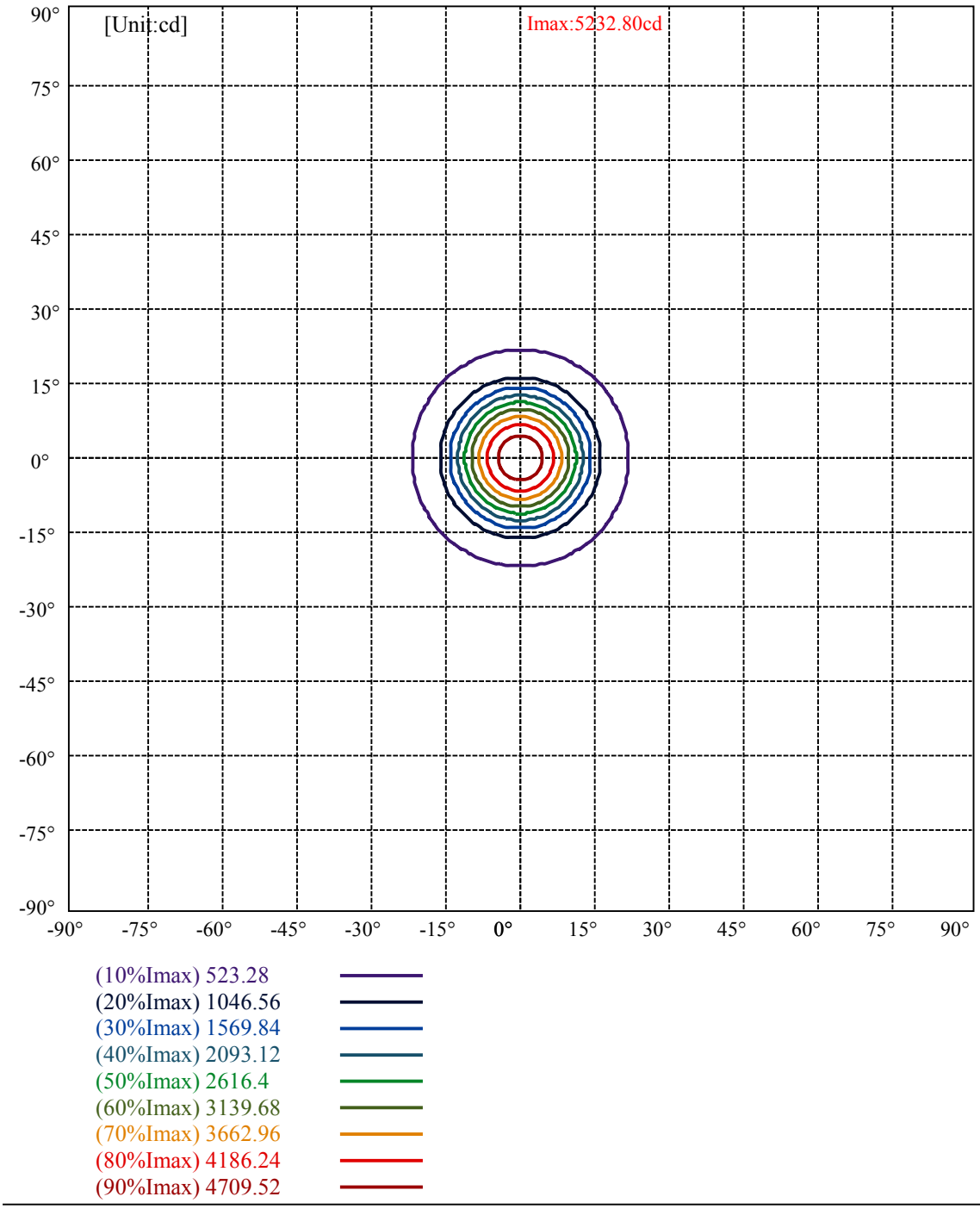
Equipment: GMS1980 Date: 2019/2/18 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

Lux distance Curve



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

ISO-Intensity(V-H)

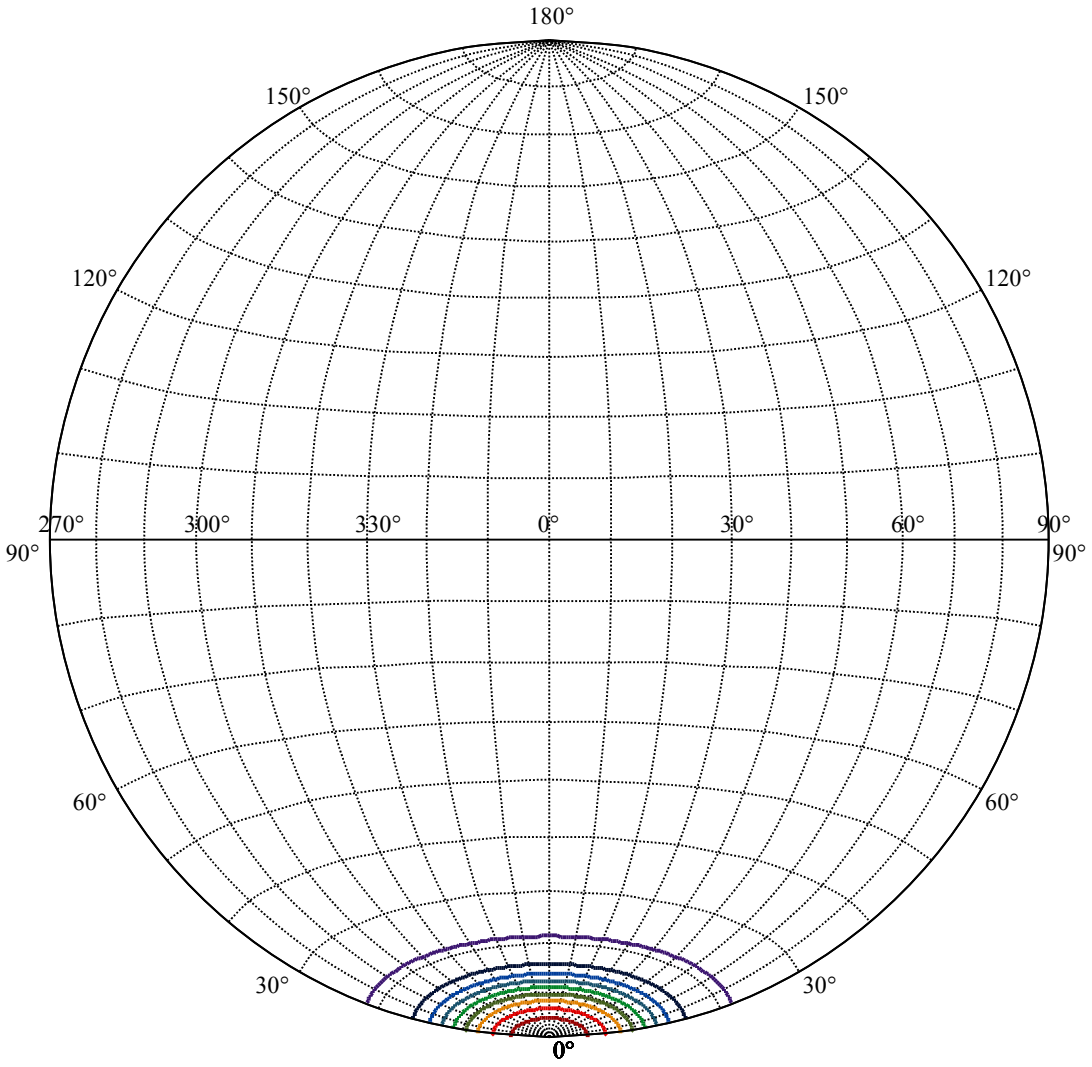


Equipment: GMS1980
Temperature(°C): 10.0

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

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:5232.80

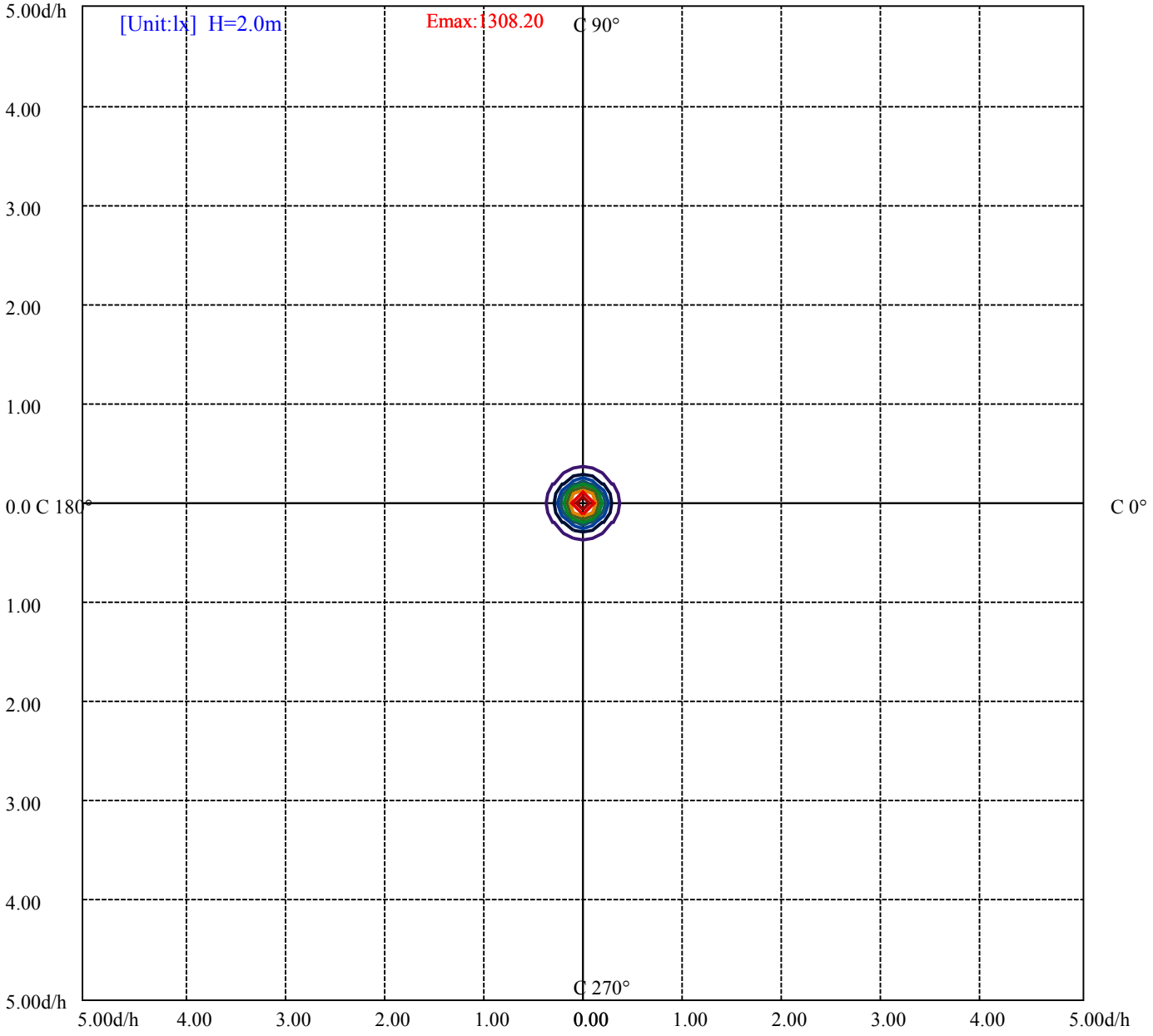
(10%Imax) 523.28
(20%Imax) 1046.56
(30%Imax) 1569.84
(40%Imax) 2093.12
(50%Imax) 2616.4
(60%Imax) 3139.68
(70%Imax) 3662.96
(80%Imax) 4186.24
(90%Imax) 4709.52

Equipment: GMS1980
Temperature(°C): 10.0

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

Operator: NT07
Distance(m): 7.50

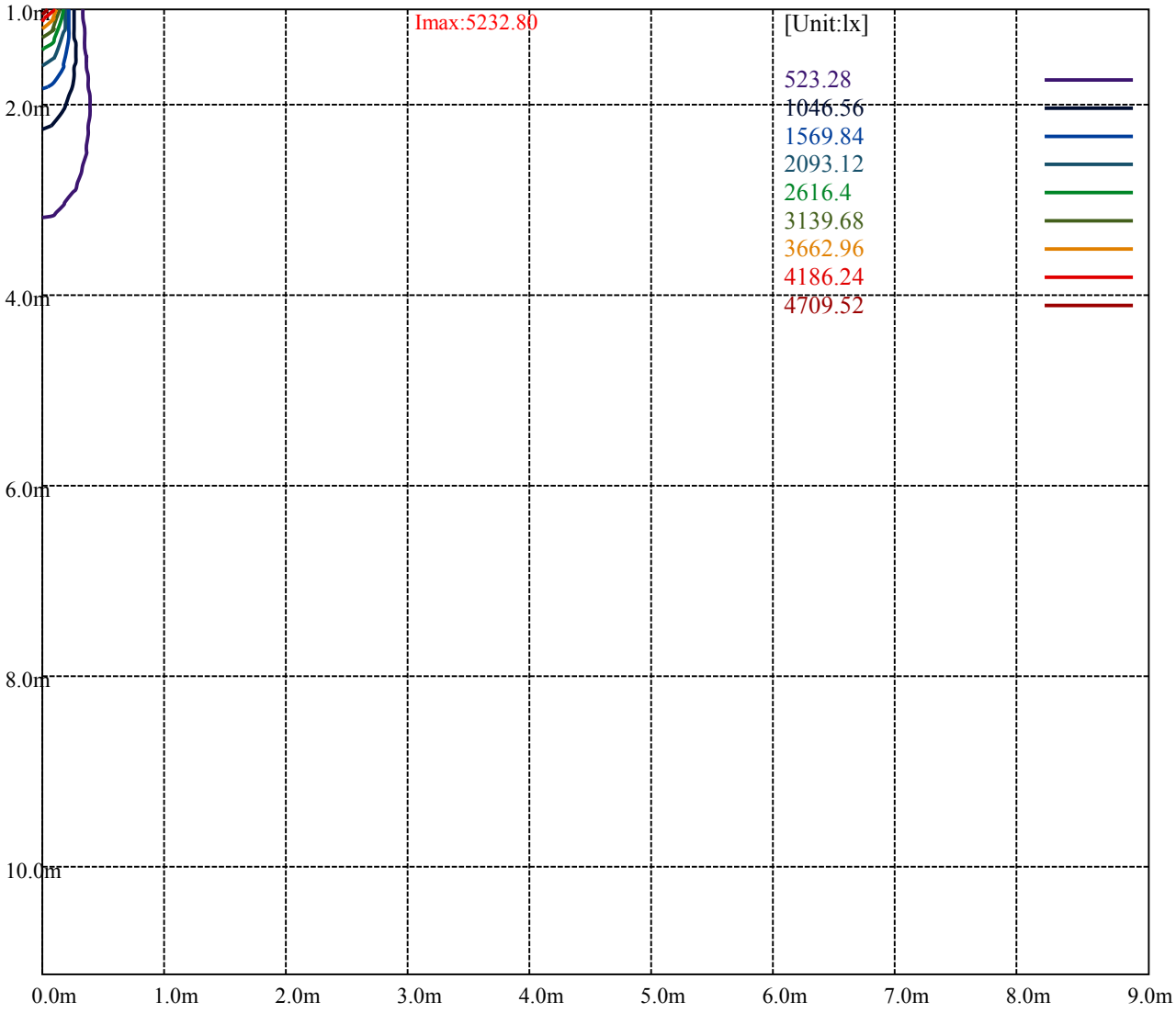
ISO illuminance diagram



(10%Emax) 130.8197
(20%Emax) 261.64
(30%Emax) 392.46
(40%Emax) 523.28
(50%Emax) 654.1
(60%Emax) 784.92
(70%Emax) 915.7375
(80%Emax) 1046.557
(90%Emax) 1177.377

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

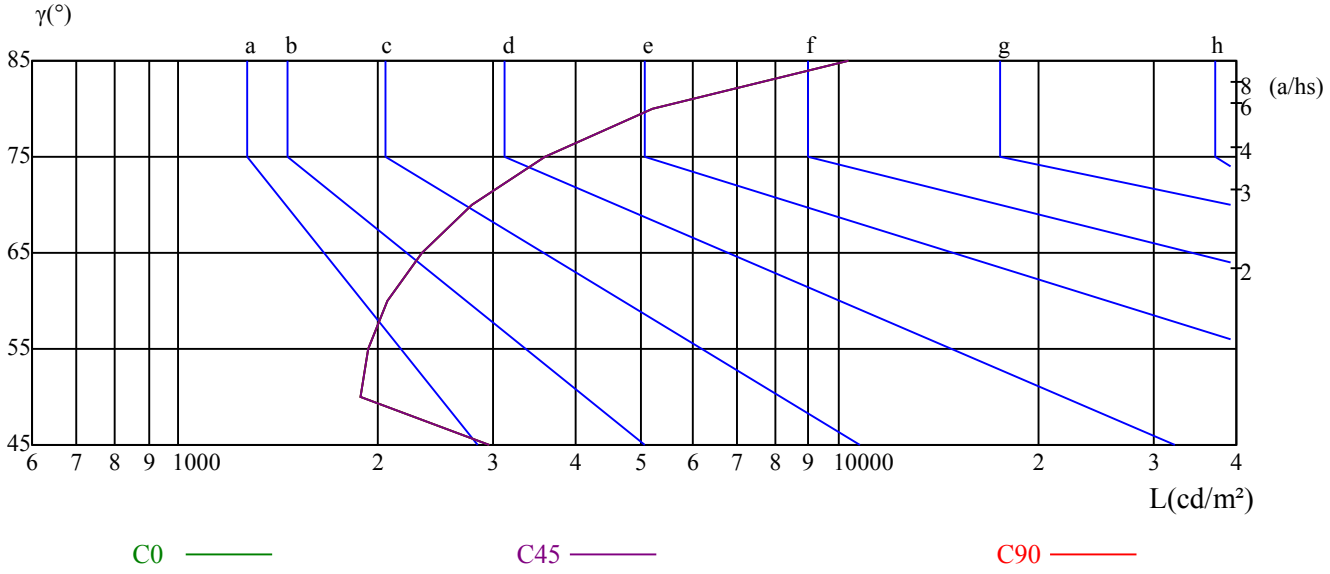
γ	45	50	55	60	65	70	75	80	85
C0	2945	1892	1936	2075	2343	2789	3595	5237	10306
C45	2945	1892	1936	2075	2343	2789	3595	5237	10306
C90	2945	1892	1936	2075	2343	2789	3595	5237	10306

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2343	2343	2343	3595	3595	3595	10306	10306	10306

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

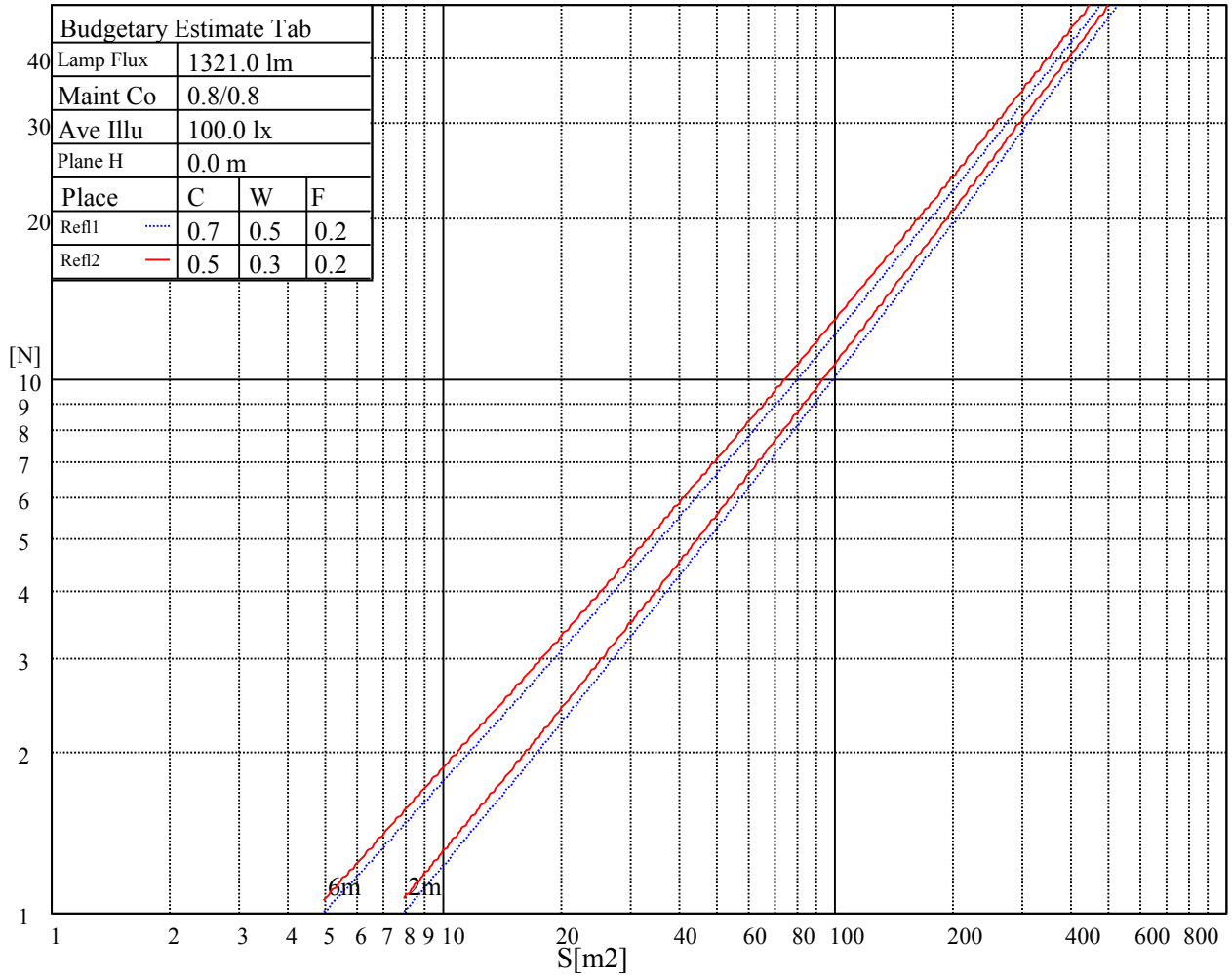


UGR Glare

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	2.43	3.34	2.80	3.66	3.97	2.39	3.30	2.76	3.61	3.93
	3H	5.46	6.27	5.85	6.60	6.97	5.42	6.22	5.80	6.56	6.93
	4H	7.13	7.87	7.54	8.23	8.62	7.09	7.83	7.50	8.19	8.58
	6H	9.01	9.69	9.43	10.07	10.47	8.97	9.65	9.39	10.03	10.43
	8H	10.06	10.70	10.50	11.09	11.51	10.02	10.66	10.46	11.05	11.46
	12H	11.79	12.40	12.22	12.78	13.21	11.75	12.35	12.18	12.74	13.17
4H	2H	3.28	4.02	3.69	4.38	4.77	3.25	3.99	3.66	4.35	4.74
	3H	6.57	7.18	6.98	7.59	7.99	6.54	7.14	6.95	7.55	7.96
	4H	8.41	8.95	8.85	9.38	9.83	8.38	8.92	8.82	9.35	9.80
	6H	10.46	10.93	10.93	11.38	11.85	10.42	10.89	10.89	11.34	11.82
	8H	11.62	12.05	12.09	12.50	12.98	11.58	12.01	12.05	12.46	12.94
	12H	13.25	13.62	13.74	14.11	14.59	13.21	13.58	13.70	14.07	14.55
8H	4H	9.11	9.54	9.59	10.00	10.47	9.09	9.52	9.56	9.97	10.45
	6H	11.44	11.78	11.95	12.28	12.77	11.40	11.74	11.92	12.25	12.74
	8H	12.79	13.09	13.32	13.61	14.11	12.75	13.05	13.29	13.58	14.07
	12H	14.57	14.83	15.09	15.33	15.91	14.53	14.79	15.06	15.29	15.87
12H	4H	9.30	9.68	9.80	10.17	10.64	9.29	9.66	9.78	10.15	10.63
	6H	11.94	12.05	12.29	12.52	13.07	11.91	12.02	12.26	12.49	13.04
	8H	13.23	13.49	13.75	13.99	14.57	13.20	13.45	13.72	13.95	14.54

Variation with the observer position at spacings:		
S = 1.0H	5.2/-8.7	5.2/-8.7
S = 1.5H	7.6/-6.7	7.6/-6.7
S = 2.0H	9.1/-5.1	9.1/-5.1
Standard tables:	BK2	BK2
Uncorrected UGR	-0.5	-0.5

Budgetary Estimate Table

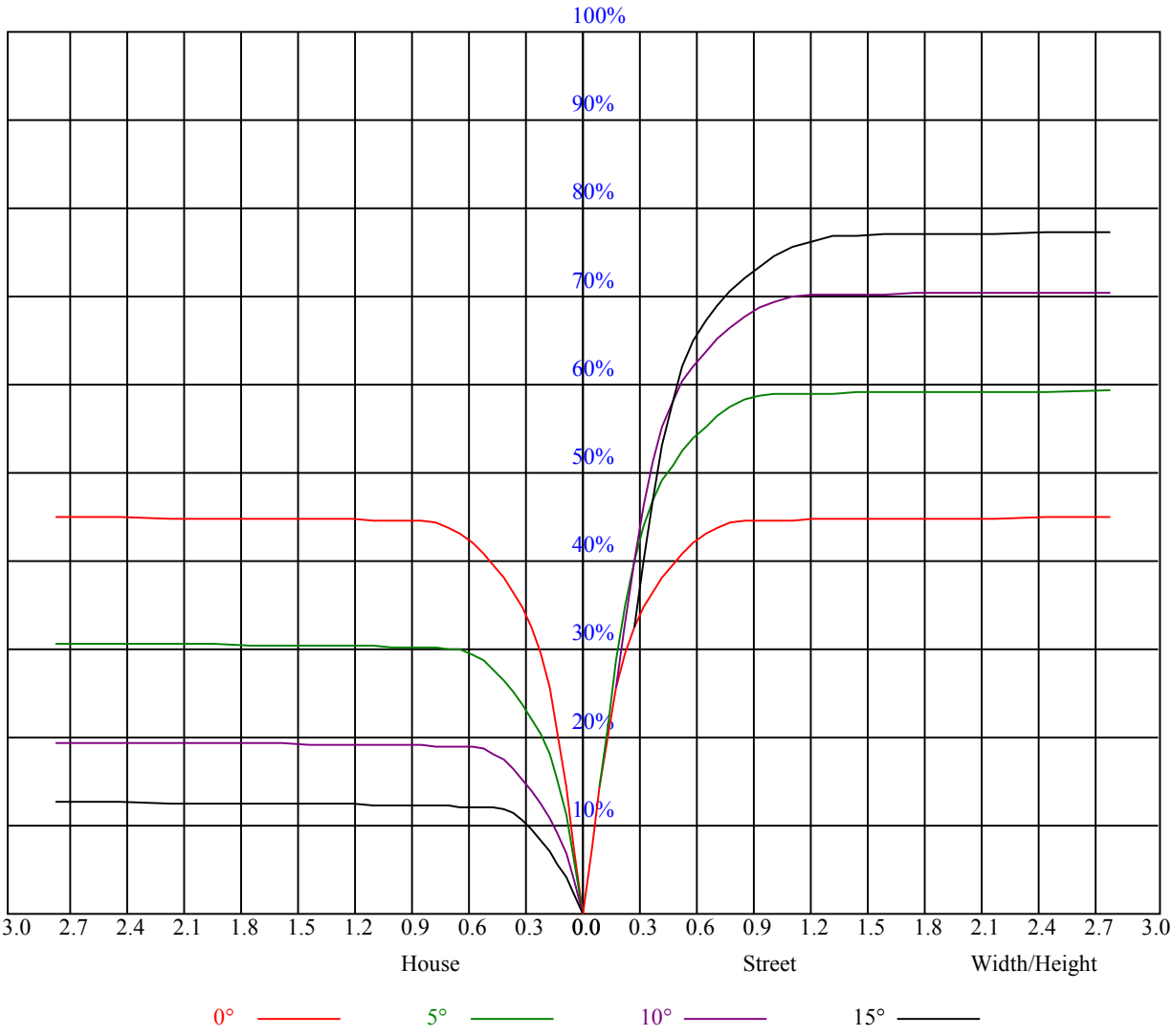


Equipment: GMS1980 Date: 2019/2/18 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.08	1.08	1.08	1.05	1.05	1.05	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.91
1	1.01	0.99	0.98	0.99	0.98	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.88	0.86
2	0.96	0.93	0.90	0.94	0.92	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	0.87	0.84	0.88	0.85	0.82	0.85	0.83	0.81	0.84	0.82	0.80	0.79
4	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.80	0.78	0.81	0.79	0.77	0.76
5	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.77	0.75	0.79	0.77	0.74	0.78	0.76	0.74	0.73
6	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
7	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.67
8	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
9	0.71	0.67	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63
10	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61

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	5232.94	5127.19	4946.63	4712.06	4476.94	4195.69	3893.06	3597.75	3277.13
45.0	5226.75	5203.69	5117.63	4992.75	4809.38	4578.19	4322.25	3969.56	3615.75
90.0	5275.13	5317.31	5325.19	5260.50	5167.13	5015.25	4778.44	4455.56	4103.44
135.0	5196.38	5319.56	5396.63	5412.94	5374.13	5272.88	5115.38	4921.31	4673.25
180.0	5232.94	5291.44	5289.75	5216.06	5072.06	4906.69	4708.13	4410.56	4132.13
225.0	5226.75	5189.06	5101.88	4919.06	4722.75	4498.31	4228.31	3943.69	3683.25
270.0	5275.13	5151.38	4975.88	4798.69	4515.75	4243.50	4019.06	3682.13	3418.88
315.0	5196.38	5004.00	4791.38	4525.88	4236.75	3966.19	3700.13	3369.94	3092.06
360.0	5232.94	5127.19	4946.63	4712.06	4476.94	4195.69	3893.06	3597.75	3277.13

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2860.88	2525.06	2190.38	1825.31	1499.63	1248.75	1009.13	817.88	699.75
45.0	3186.56	2721.38	2297.81	1896.19	1472.06	1204.88	995.63	808.31	709.88
90.0	3653.44	3163.50	2701.13	2184.19	1769.06	1273.50	1111.50	894.94	768.26
135.0	4322.81	3900.38	3476.81	3017.81	2422.69	1983.94	1610.44	1242.00	1021.50
180.0	3817.69	3372.75	2989.69	2597.06	2161.69	1764.56	1459.13	1108.69	952.93
225.0	3382.88	3062.81	2765.81	2431.69	2147.06	1845.00	1527.75	1121.63	1096.26
270.0	3167.44	2844.56	2577.38	2314.69	2009.81	1770.75	1531.13	1235.81	1030.50
315.0	2803.50	2445.19	2172.94	1908.00	1618.88	1265.63	1122.36	912.71	769.95
360.0	2860.88	2525.06	2190.38	1825.31	1499.63	1248.75	1009.13	817.88	699.75

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	611.44	560.81	523.69	499.50	485.44	474.19	462.38	453.94	446.06
45.0	642.94	588.38	549.00	520.88	496.13	479.81	468.00	459.00	451.69
90.0	674.04	610.71	571.22	537.47	510.92	491.51	475.65	459.96	450.39
135.0	860.06	730.13	641.25	585.00	541.13	512.44	487.69	468.56	457.31
180.0	771.30	652.50	582.81	530.61	497.64	477.62	462.94	450.68	442.97
225.0	868.78	730.41	632.19	553.89	516.49	492.98	477.73	464.01	454.44
270.0	862.88	722.25	622.13	564.75	522.56	496.69	481.50	468.00	456.75
315.0	655.82	580.67	538.48	508.56	488.64	474.75	462.94	450.28	441.62
360.0	611.44	560.81	523.69	499.50	485.44	474.19	462.38	453.94	446.06

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	436.50	429.75	423.00	416.81	410.63	405.00	398.25	372.94	322.31
45.0	442.69	434.25	427.50	421.31	413.44	407.81	402.19	380.81	333.00
90.0	441.23	431.94	424.58	418.61	412.14	406.07	400.89	392.79	360.39
135.0	447.19	439.31	429.75	423.00	413.44	407.25	401.63	394.31	388.13
180.0	435.88	428.12	418.56	410.34	403.43	395.66	389.93	384.47	378.17
225.0	445.33	436.05	427.22	418.84	411.64	405.06	399.60	393.36	384.19
270.0	446.06	437.63	429.19	422.44	414.56	408.94	402.75	391.50	357.19
315.0	433.41	424.46	418.67	412.93	405.73	399.88	386.66	330.69	274.73
360.0	436.50	429.75	423.00	416.81	410.63	405.00	398.25	372.94	322.31

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	290.25	171.73	97.03	46.41	20.14	16.82	15.75	14.40	12.66
45.0	289.13	195.13	109.80	56.31	26.55	18.34	16.26	14.46	12.15
90.0	295.71	221.01	153.79	84.09	35.04	20.70	18.11	15.41	13.16
135.0	371.81	307.69	286.88	171.06	95.74	41.79	17.27	14.34	12.83
180.0	353.81	306.73	238.44	171.17	90.62	40.95	18.11	14.40	12.66
225.0	344.81	280.69	214.14	136.86	70.99	30.54	17.55	15.13	13.22
270.0	300.38	292.50	145.91	82.80	32.46	16.93	15.58	14.46	12.99
315.0	198.51	117.11	66.15	24.64	15.53	14.63	13.67	11.87	10.24
360.0	290.25	171.73	97.03	46.41	20.14	16.82	15.75	14.40	12.66

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	10.52	9.11	8.04	6.53	6.19	6.02	5.96	5.79	5.68
45.0	9.90	8.55	6.98	6.36	6.19	6.02	5.91	5.85	5.74
90.0	10.80	8.89	7.54	6.47	6.30	6.13	6.02	5.91	5.79
135.0	11.03	8.94	7.59	7.09	6.41	6.24	6.13	5.96	5.85
180.0	10.91	8.94	7.09	6.81	6.47	6.08	5.91	5.79	5.74
225.0	11.19	8.72	7.31	6.98	6.64	6.24	6.08	5.96	5.79
270.0	10.91	9.00	8.27	7.59	6.64	6.24	6.13	6.02	5.85
315.0	8.72	7.82	7.09	6.47	6.24	6.08	5.96	5.85	5.74
360.0	10.52	9.11	8.04	6.53	6.19	6.02	5.96	5.79	5.68

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	5.63	5.57	5.46	5.40	5.34	5.34	5.23	5.18	5.12
45.0	5.68	5.57	5.51	5.46	5.40	5.34	5.23	5.18	5.12
90.0	5.68	5.63	5.51	5.46	5.40	5.34	5.23	5.18	5.18
135.0	5.74	5.63	5.57	5.46	5.46	5.34	5.29	5.23	5.18
180.0	5.63	5.57	5.46	5.40	5.34	5.23	5.18	5.12	5.06
225.0	5.68	5.57	5.46	5.40	5.34	5.29	5.23	5.18	5.12
270.0	5.79	5.68	5.57	5.46	5.46	5.34	5.29	5.23	5.18
315.0	5.63	5.57	5.46	5.40	5.29	5.23	5.18	5.12	5.12
360.0	5.63	5.57	5.46	5.40	5.34	5.34	5.23	5.18	5.12

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	5.06	5.01	5.01	4.89	4.89	4.84	4.84	4.78	4.73
45.0	5.12	5.06	5.01	5.01	4.95	4.89	4.84	4.84	4.78
90.0	5.06	5.06	5.01	5.01	4.95	4.89	4.84	4.78	4.78
135.0	5.12	5.06	5.01	4.95	4.95	4.89	4.84	4.84	4.78
180.0	5.06	5.01	4.89	4.89	4.84	4.84	4.84	4.78	4.73
225.0	5.06	5.06	5.01	4.95	4.89	4.89	4.84	4.84	4.78
270.0	5.12	5.06	5.06	5.01	4.95	4.89	4.89	4.84	4.84
315.0	5.06	5.01	4.95	4.95	4.89	4.84	4.84	4.78	4.78
360.0	5.06	5.01	5.01	4.89	4.89	4.84	4.84	4.78	4.73

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	4.73	4.67	4.67	4.67	4.61	4.56	4.56	4.56	4.56
45.0	4.73	4.73	4.73	4.67	4.67	4.61	4.56	4.61	4.56
90.0	4.73	4.73	4.67	4.67	4.61	4.67	4.61	4.61	4.56
135.0	4.78	4.73	4.73	4.73	4.67	4.67	4.61	4.61	4.61
180.0	4.73	4.73	4.67	4.67	4.61	4.61	4.61	4.56	4.56
225.0	4.73	4.73	4.73	4.73	4.67	4.67	4.61	4.61	4.61
270.0	4.78	4.78	4.73	4.73	4.67	4.73	4.67	4.67	4.61
315.0	4.73	4.73	4.67	4.67	4.67	4.61	4.61	4.61	4.61
360.0	4.73	4.67	4.67	4.67	4.61	4.56	4.56	4.56	4.56

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.56	4.50	4.50	4.56	4.50	4.50	4.50	4.44	4.50
45.0	4.56	4.56	4.56	4.56	4.56	4.56	4.50	4.50	4.50
90.0	4.56	4.56	4.50	4.56	4.50	4.50	4.50	4.56	4.50
135.0	4.61	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.50
180.0	4.56	4.56	4.50	4.50	4.50	4.50	4.50	4.50	4.50
225.0	4.61	4.56	4.61	4.56	4.56	4.56	4.50	4.56	4.50
270.0	4.61	4.61	4.56	4.56	4.56	4.56	4.56	4.56	4.50
315.0	4.56	4.61	4.56	4.56	4.50	4.50	4.50	4.50	4.50
360.0	4.56	4.50	4.50	4.56	4.50	4.50	4.50	4.44	4.50

Intensity data(cd)

C/γ(°)	90.0
0.0	4.44
45.0	4.50
90.0	4.50
135.0	4.50
180.0	4.50
225.0	4.50
270.0	4.50
315.0	4.50
360.0	4.44