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: 1534-E
Luminaire: 92.70.051.00
Report No: NATA0100
Test No: GC2019010305
LampCAT: BRIDGELUX V8E G7
Lamp flux(lm): 1392.0
Number of Lamps: 1
Length(mm): 26
Phm Type: C

Voltage(V): 35.5000
Current(A): 0.2600
Power (W): 9.2300
PF: 0.0000
Ballast type: DC
Width(mm): 26
Height(mm): 0

Photometric Results

Lumens(lm): 1188.20
Efficiency(%): 85.36%
Lumens(lm)/Power(W): 128.80
Central intensity(cd): 2720.672
Maximum intensity(cd): 2720.672
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=28.4
[C90/270]Total=28.4
Field angle(10%Imax): [C0/180]Total=76.2
[C90/270]Total=76.2
Maximum s/h(1/2): C0_180=0.47 C90_270=0.47
Maximum s/h(1/4): C0_180=0.53 C90_270=0.53
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.40%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.038%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2720.672	0.651	0.651	.047%	.055%
1.0	2711.250	5.189	5.84	.373%	.491%
2.0	2680.242	10.258	16.097	.737%	1.355%
3.0	2627.156	15.078	31.175	1.083%	2.624%
4.0	2557.617	19.565	50.74	1.406%	4.270%
5.0	2463.047	23.541	74.281	1.691%	6.252%
6.0	2352.375	26.965	101.245	1.937%	8.521%
7.0	2235.445	29.875	131.12	2.146%	11.035%
8.0	2115.000	32.279	163.399	2.319%	13.752%
9.0	1987.664	34.098	197.497	2.450%	16.621%
10.0	1861.594	35.449	232.946	2.547%	19.605%
11.0	1741.781	36.446	269.392	2.618%	22.672%
12.0	1624.430	37.037	306.428	2.661%	25.789%
13.0	1503.211	37.082	343.51	2.664%	28.910%
14.0	1383.961	36.716	380.226	2.638%	32.000%
15.0	1272.094	36.105	416.331	2.594%	35.039%
16.0	1166.126	35.248	451.579	2.532%	38.005%
17.0	1076.562	34.516	486.095	2.480%	40.910%
18.0	992.756	33.642	519.737	2.417%	43.741%
19.0	921.909	32.914	552.651	2.365%	46.512%
20.0	848.981	31.842	584.493	2.288%	49.191%
21.0	784.835	30.843	615.336	2.216%	51.787%
22.0	732.466	30.089	645.426	2.162%	54.320%
23.0	679.978	29.136	674.561	2.093%	56.772%
24.0	637.924	28.453	703.015	2.044%	59.166%
25.0	601.650	27.883	730.898	2.003%	61.513%
26.0	569.278	27.366	758.264	1.966%	63.816%
27.0	540.872	26.927	785.192	1.934%	66.082%
28.0	518.752	26.707	811.898	1.919%	68.330%
29.0	499.641	26.563	838.462	1.908%	70.566%
30.0	482.316	26.446	864.907	1.900%	72.791%
31.0	462.874	26.143	891.05	1.878%	74.991%
32.0	438.377	25.475	916.525	1.830%	77.135%
33.0	414.605	24.763	941.287	1.779%	79.219%
34.0	389.060	23.858	965.145	1.714%	81.227%
35.0	359.705	22.625	987.77	1.625%	83.132%
36.0	330.694	21.316	1009.086	1.531%	84.925%
37.0	306.408	20.222	1029.307	1.453%	86.627%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	274.620	18.541	1047.848	1.332%	88.188%
39.0	248.766	17.168	1065.016	1.233%	89.633%
40.0	218.081	15.372	1080.388	1.104%	90.926%
41.0	190.617	13.714	1094.102	.985%	92.080%
42.0	162.816	11.947	1106.049	.858%	93.086%
43.0	135.766	10.154	1116.202	.729%	93.940%
44.0	110.841	8.443	1124.646	.607%	94.651%
45.0	87.434	6.780	1131.426	.487%	95.222%
46.0	67.268	5.306	1136.732	.381%	95.668%
47.0	52.284	4.193	1140.925	.301%	96.021%
48.0	43.130	3.515	1144.44	.253%	96.317%
49.0	38.855	3.216	1147.656	.231%	96.588%
50.0	35.093	2.948	1150.604	.212%	96.836%
51.0	30.607	2.608	1153.212	.187%	97.055%
52.0	26.177	2.262	1155.474	.163%	97.246%
53.0	20.496	1.795	1157.269	.129%	97.397%
54.0	16.362	1.452	1158.721	.104%	97.519%
55.0	14.428	1.296	1160.017	.093%	97.628%
56.0	13.416	1.220	1161.237	.088%	97.731%
57.0	12.438	1.144	1162.381	.082%	97.827%
58.0	11.665	1.085	1163.465	.078%	97.918%
59.0	10.997	1.034	1164.499	.074%	98.005%
60.0	10.392	0.987	1165.486	.071%	98.088%
61.0	9.879	0.948	1166.433	.068%	98.168%
62.0	9.464	0.916	1167.35	.066%	98.245%
63.0	9.127	0.892	1168.242	.064%	98.320%
64.0	8.810	0.868	1169.11	.062%	98.393%
65.0	8.564	0.851	1169.961	.061%	98.465%
66.0	8.325	0.834	1170.795	.060%	98.535%
67.0	8.156	0.823	1171.618	.059%	98.604%
68.0	7.966	0.810	1172.428	.058%	98.672%
69.0	7.812	0.800	1173.228	.057%	98.740%
70.0	7.685	0.792	1174.02	.057%	98.806%
71.0	7.552	0.783	1174.803	.056%	98.872%
72.0	7.439	0.776	1175.579	.056%	98.938%
73.0	7.383	0.774	1176.353	.056%	99.003%
74.0	7.376	0.778	1177.131	.056%	99.068%
75.0	7.418	0.786	1177.916	.056%	99.134%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.467	0.795	1178.711	.057%	99.201%
77.0	7.594	0.811	1179.522	.058%	99.270%
78.0	7.734	0.830	1180.352	.060%	99.339%
79.0	7.643	0.823	1181.175	.059%	99.409%
80.0	7.566	0.817	1181.992	.059%	99.477%
81.0	7.123	0.771	1182.763	.055%	99.542%
82.0	6.680	0.725	1183.489	.052%	99.603%
83.0	6.483	0.706	1184.194	.051%	99.663%
84.0	6.476	0.706	1184.9	.051%	99.722%
85.0	6.448	0.704	1185.605	.051%	99.781%
86.0	5.836	0.638	1186.243	.046%	99.835%
87.0	5.435	0.595	1186.838	.043%	99.885%
88.0	5.041	0.553	1187.391	.040%	99.932%
89.0	4.957	0.544	1187.934	.039%	99.977%
90.0	4.880	0.268	1188.202	.019%	100.000%

Zonal flux distribution table

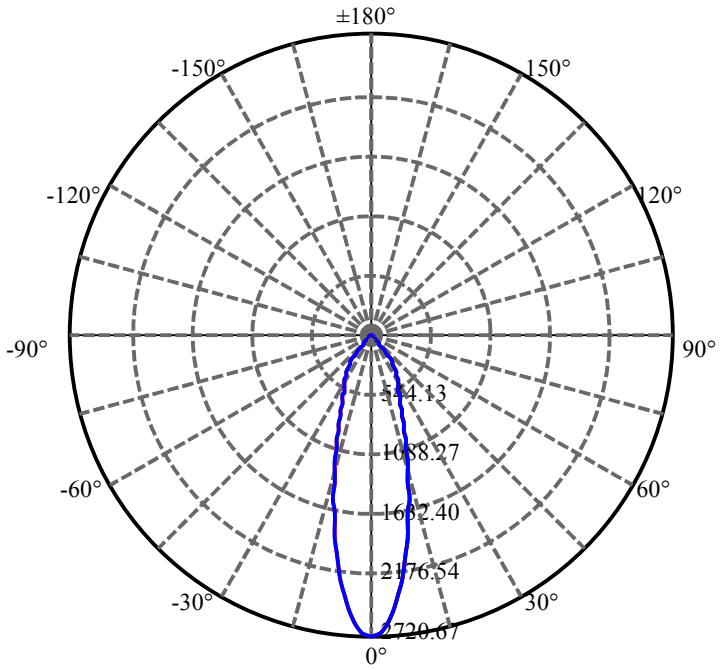
ZONAL LUMEN SUMMARY

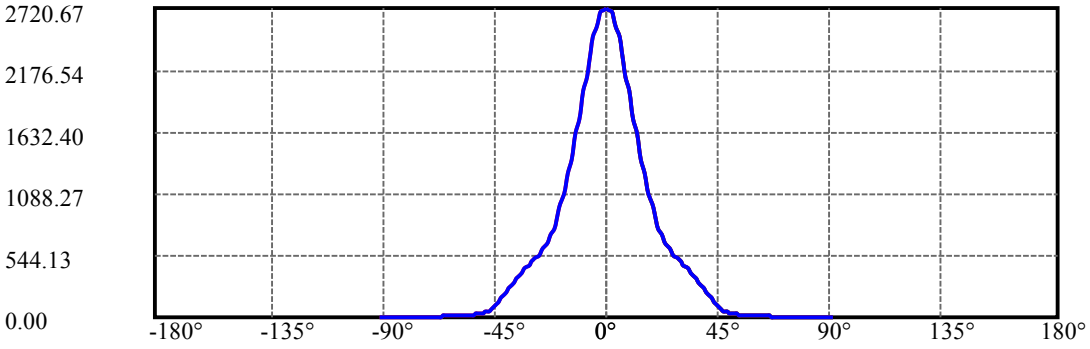
Zone	Lumens	%Lamp	%Fixt
0-30	864.91	62.13%	72.79%
0-40	1080.39	77.61%	90.93%
0-60	1165.49	83.73%	98.09%
0-90	1187.93	85.34%	99.98%
0-120	1187.93	85.34%	99.98%
0-180	1188.20	85.36%	100.00%
60-90	23.44	1.68%	1.97%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-33.39	950.56	68.29%	80.00%

ZONAL LUMEN SUMMARY

0-10	232.95
10-20	351.55
20-30	280.41
30-40	215.48
40-50	70.22
50-60	14.88
60-70	8.53
70-80	7.97
80-90	5.94
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):

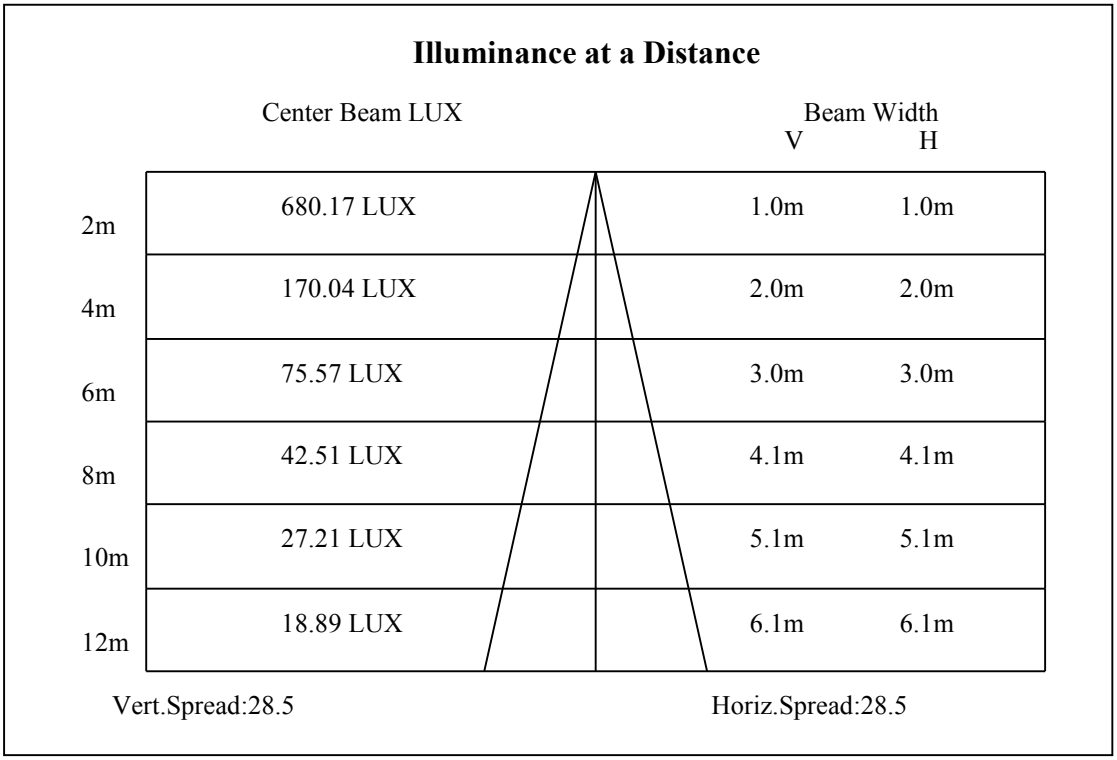
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:38.1 Right:38.1
:C90/270Left:38.1 Right:38.1

Beam Angle(50%Imax):C0/180Left:14.2 Right:14.2
:C90/270Left:14.2 Right:14.2

Lux distance Curve

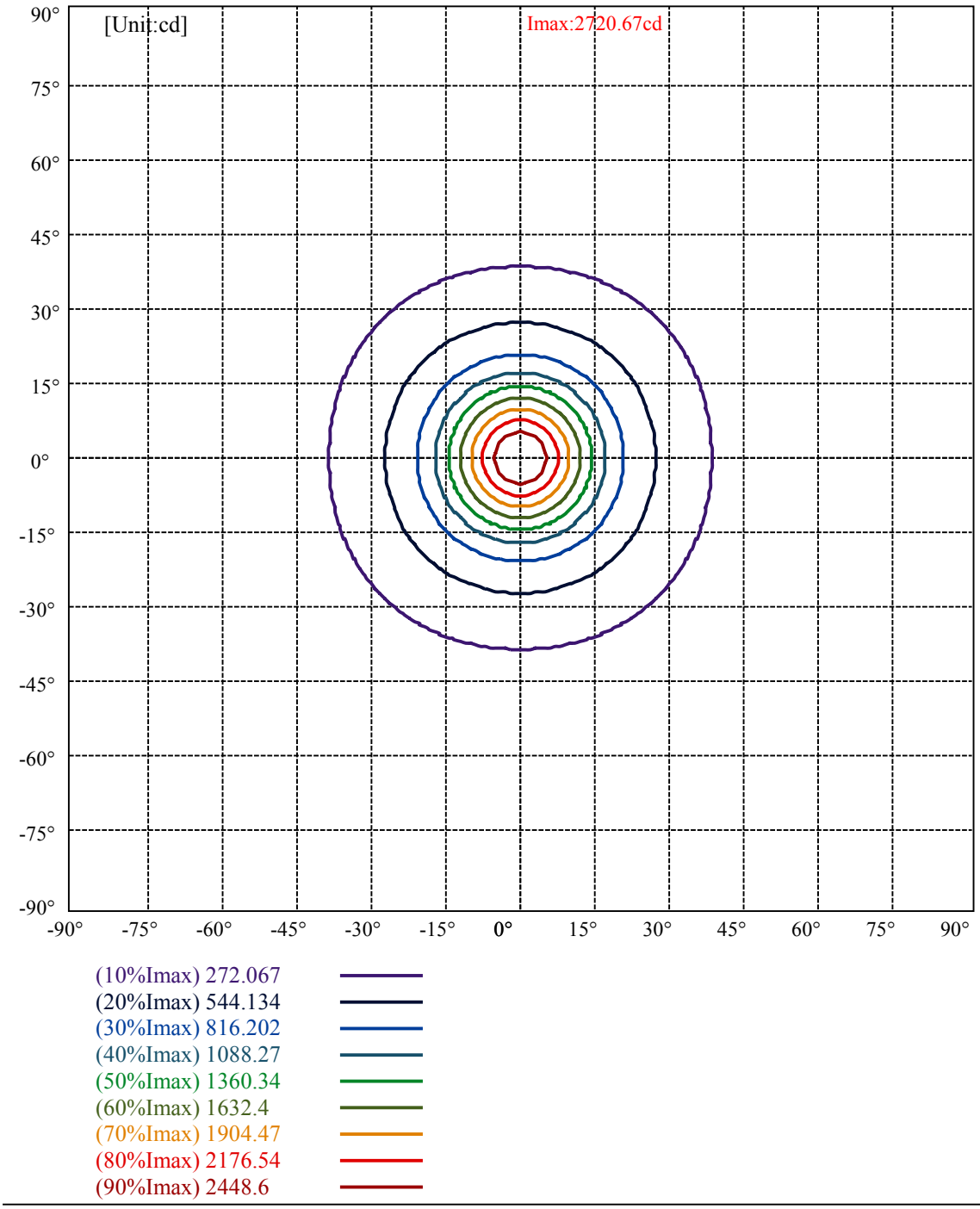


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/3
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO-Intensity(V-H)

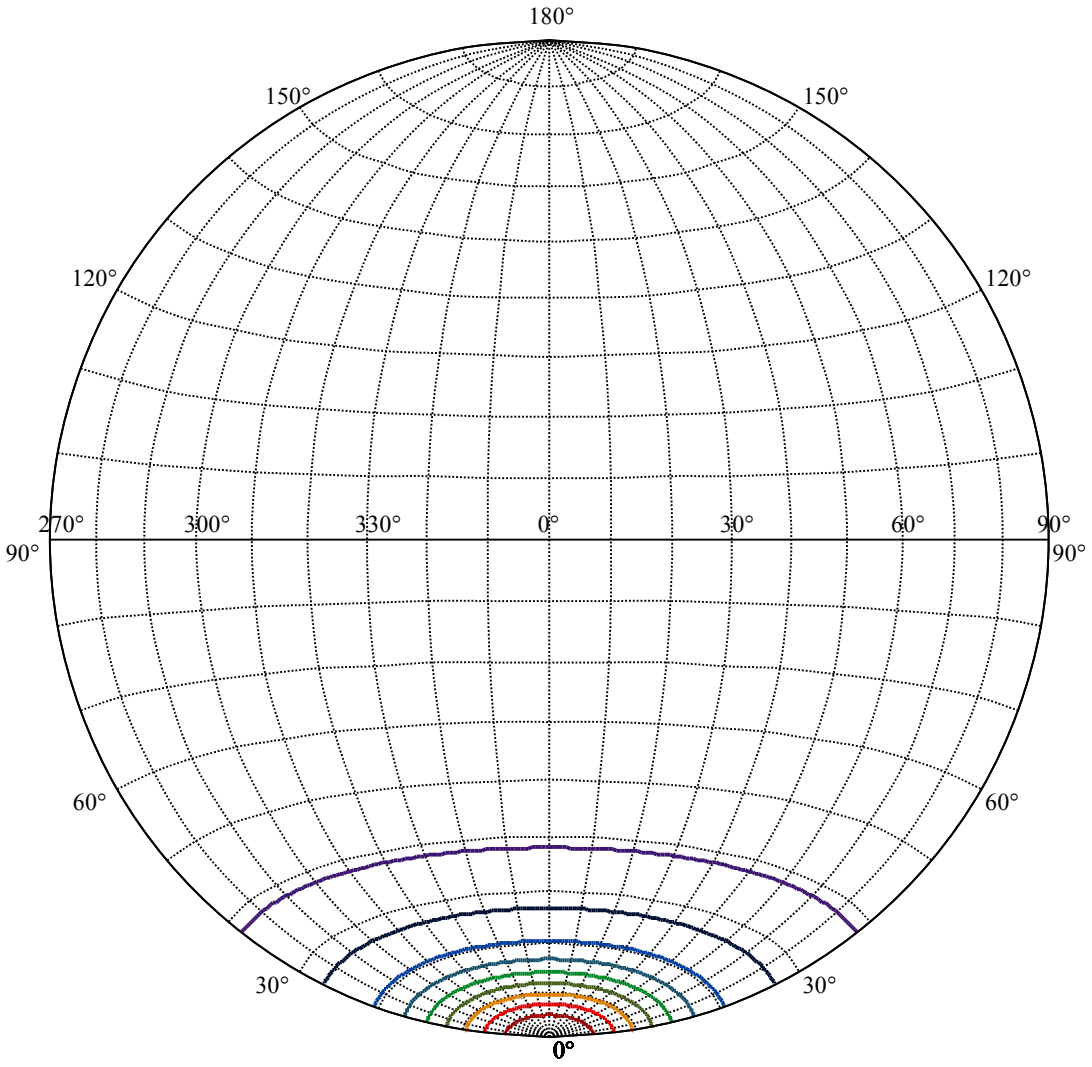


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/3
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



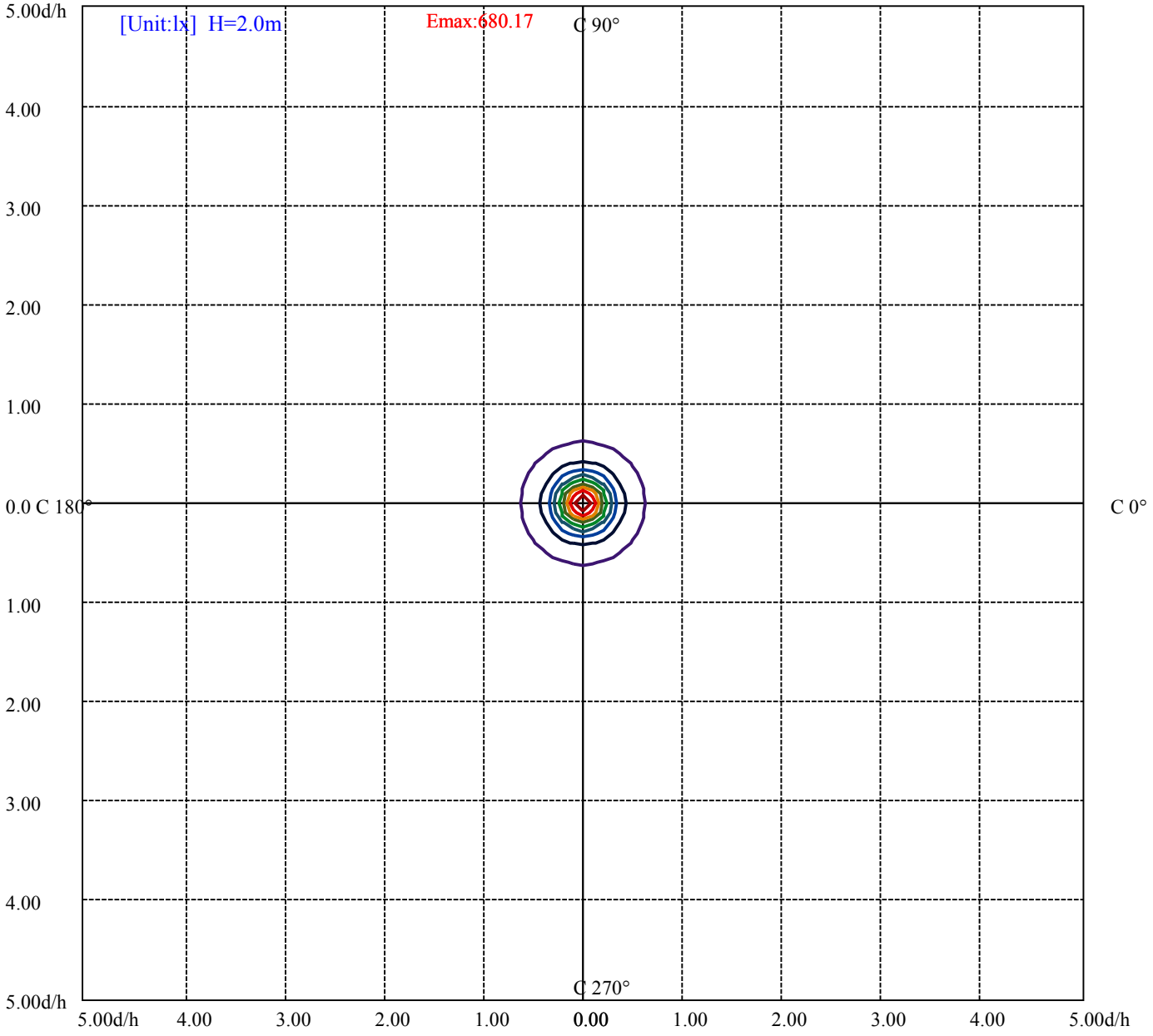
House [Unit:cd] Road

Imax:2720.67

(10%Imax) 272.067
(20%Imax) 544.134
(30%Imax) 816.202
(40%Imax) 1088.27
(50%Imax) 1360.34
(60%Imax) 1632.4
(70%Imax) 1904.47
(80%Imax) 2176.54
(90%Imax) 2448.6

Equipment: GMS1980 Date: 2019/1/3 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO illuminance diagram



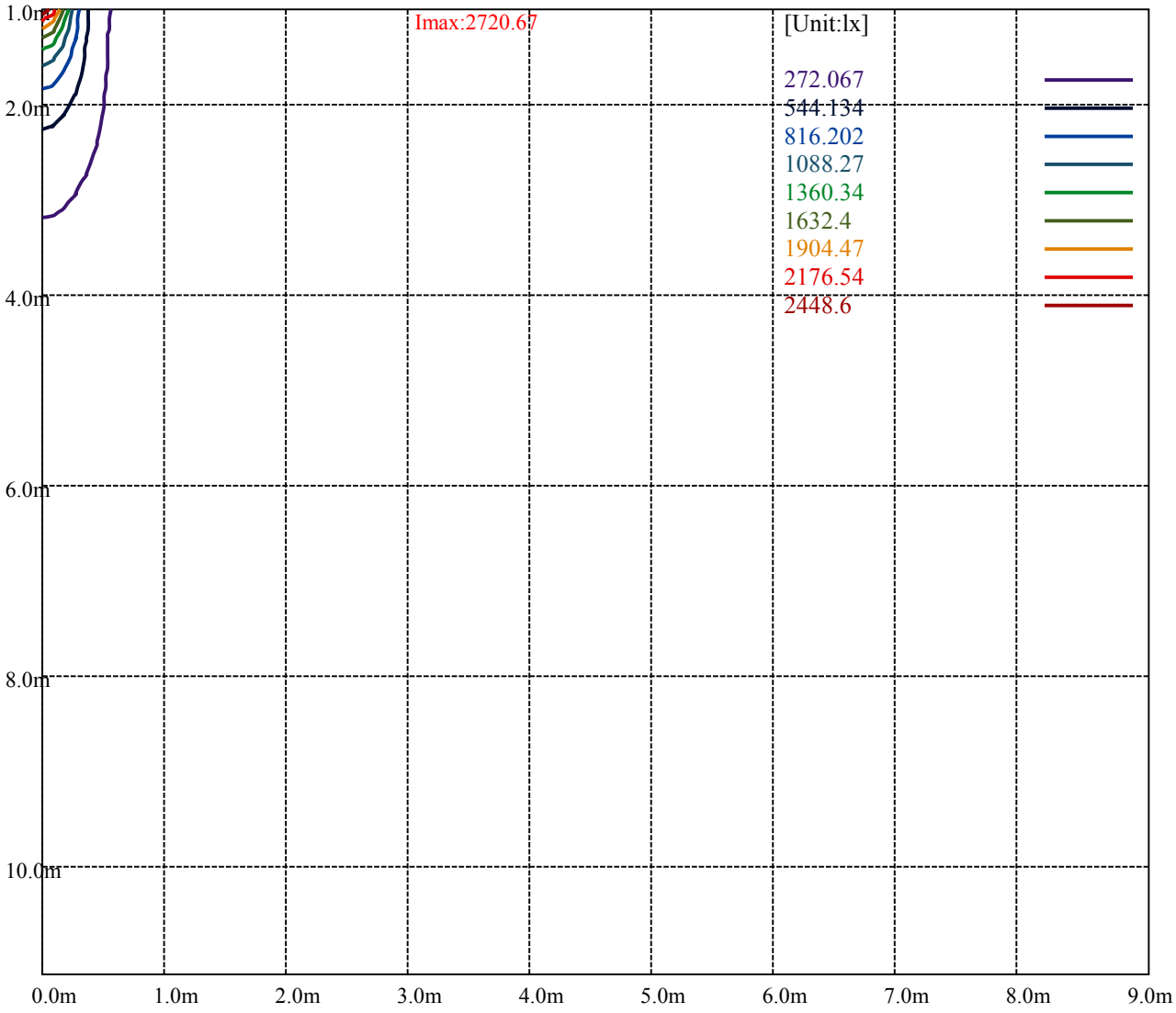
(10%Emax) 68.01675
(20%Emax) 136.0335
(30%Emax) 204.0502
(40%Emax) 272.0675
(50%Emax) 340.085
(60%Emax) 408.1
(70%Emax) 476.1175
(80%Emax) 544.135
(90%Emax) 612.15

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/3
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/3
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

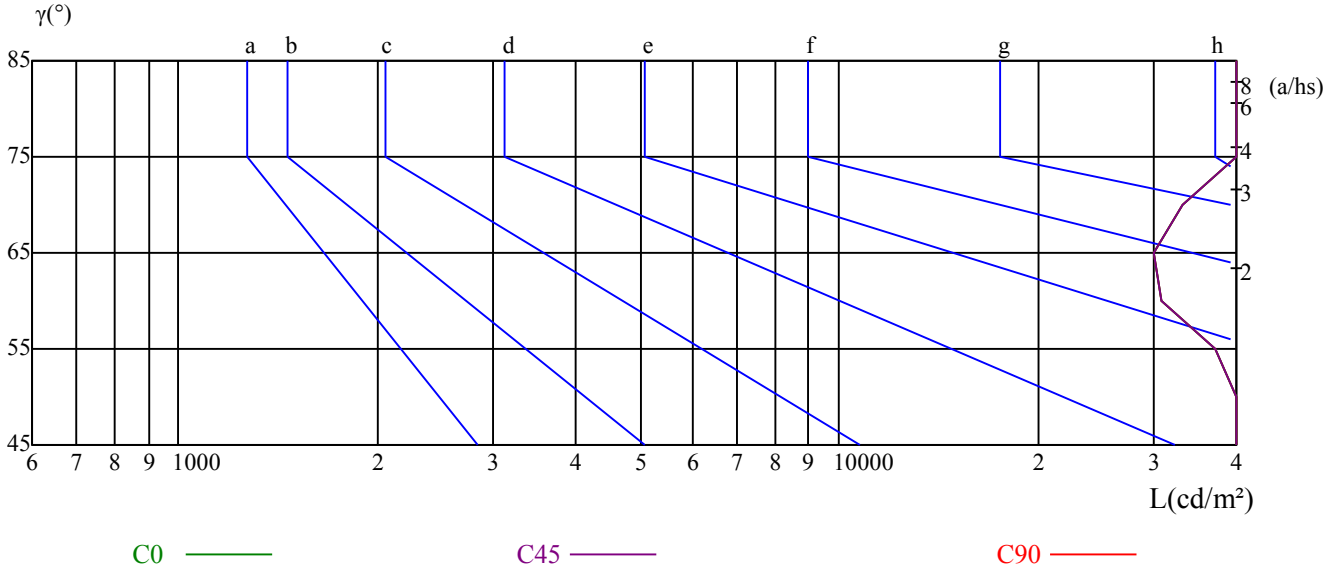
γ	45	50	55	60	65	70	75	80	85
C0	182914	80762	37211	30746	29977	33239	42398	64451	109436
C45	182914	80762	37211	30746	29977	33239	42398	64451	109436
C90	182914	80762	37211	30746	29977	33239	42398	64451	109436

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
29977	29977	29977	42398	42398	42398	109436	109436	109436

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
Temperature(°C): 10.0

Date: 2019/1/3
Humidity(%): 65.0%

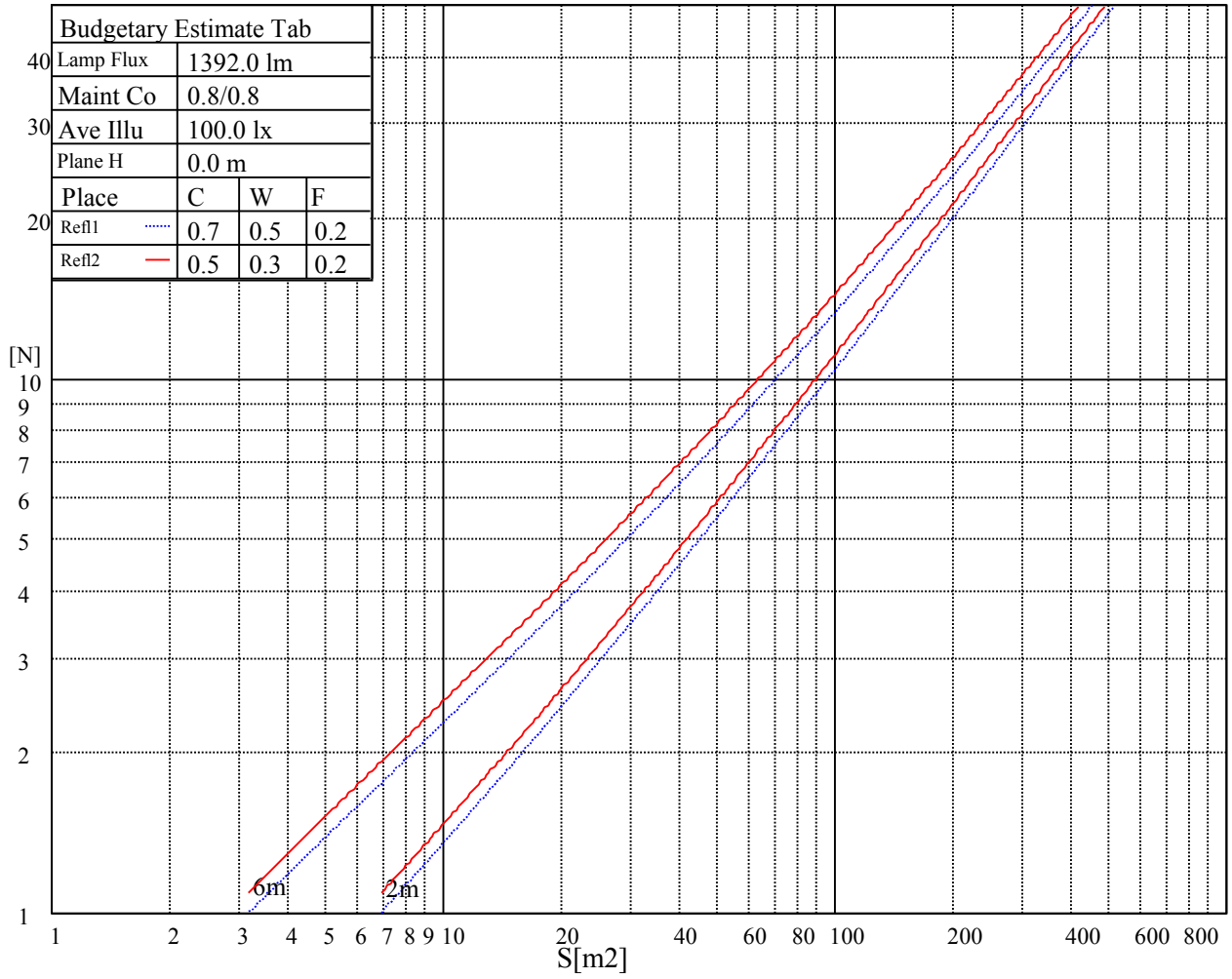
Operator: NT07
Distance(m): 7.50

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	15.37	16.37	15.74	16.68	17.00	14.65	15.65	15.01	15.96	16.28
	3H	17.18	18.07	17.57	18.40	18.77	16.58	17.46	16.96	17.80	18.16
	4H	18.36	19.17	18.76	19.53	19.92	17.88	18.70	18.29	19.05	19.44
	6H	19.90	20.65	20.32	21.03	21.42	19.65	20.40	20.07	20.78	21.17
	8H	20.74	21.44	21.18	21.84	22.25	20.59	21.30	21.03	21.69	22.10
	12H	22.05	22.72	22.48	23.10	23.53	22.01	22.68	22.45	23.07	23.50
4H	2H	15.72	16.53	16.12	16.89	17.28	15.13	15.95	15.53	16.30	16.69
	3H	17.91	18.58	18.32	18.99	19.39	17.44	18.11	17.85	18.52	18.92
	4H	19.33	19.93	19.77	20.35	20.80	18.98	19.58	19.42	20.01	20.45
	6H	20.96	21.47	21.43	21.92	22.40	20.80	21.31	21.27	21.76	22.24
	8H	21.99	22.46	22.46	22.91	23.39	21.91	22.39	22.39	22.84	23.32
	12H	23.31	23.73	23.80	24.21	24.69	23.32	23.74	23.81	24.23	24.70
8H	4H	19.88	20.36	20.36	20.81	21.28	19.61	20.08	20.08	20.53	21.01
	6H	21.87	22.25	22.38	22.75	23.24	21.76	22.14	22.27	22.65	23.13
	8H	23.08	23.42	23.61	23.94	24.43	23.04	23.38	23.58	23.91	24.40
	12H	24.59	24.88	25.11	25.38	25.96	24.61	24.90	25.13	25.40	25.98
12H	4H	20.05	20.46	20.54	20.95	21.43	19.79	20.20	20.28	20.69	21.17
	6H	22.44	22.49	22.69	22.96	23.51	22.34	22.40	22.59	22.87	23.42
	8H	23.48	23.77	24.00	24.27	24.85	23.45	23.74	23.97	24.24	24.82

Variation with the observer position at spacings:		
S = 1.0H	3.5/-6.7	3.5/-6.7
S = 1.5H	5.7/-5.0	5.7/-5.0
S = 2.0H	7.1/-4.1	7.1/-4.1
Standard tables:	BK2	BK2
Uncorrected UGR	8.9	8.9

Budgetary Estimate Table



Equipment: GMS1980
Temperature(°C): 10.0

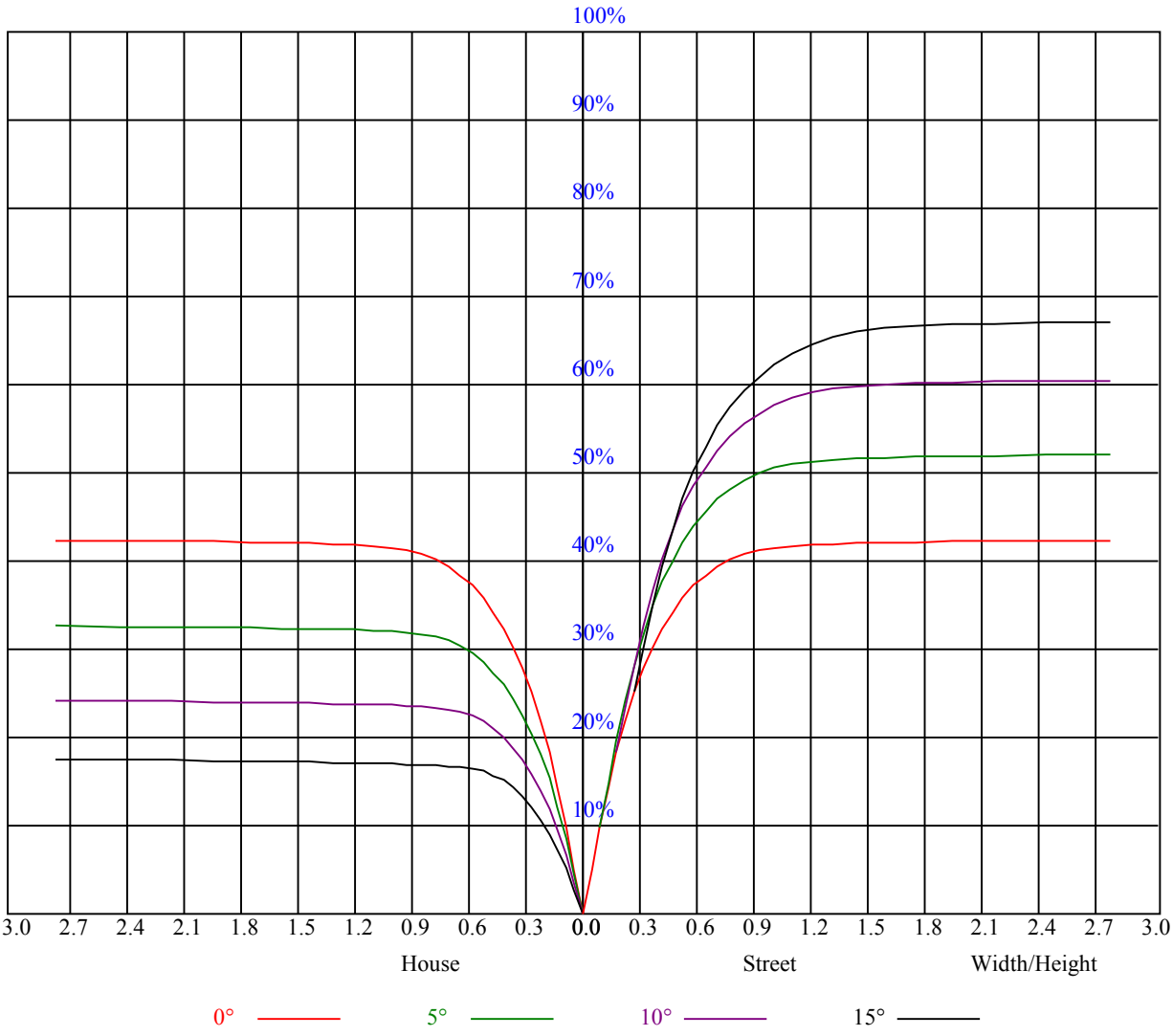
Date: 2019/1/3
Humidity(%): 65.0%

Operator: NT07
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	1.02	1.02	1.02	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.85
1	0.95	0.92	0.91	0.93	0.91	0.89	0.89	0.88	0.86	0.86	0.85	0.84	0.83	0.82	0.81	0.80
2	0.88	0.85	0.82	0.87	0.84	0.81	0.84	0.82	0.79	0.82	0.80	0.78	0.79	0.78	0.76	0.75
3	0.83	0.79	0.75	0.82	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.72	0.75	0.73	0.71	0.70
4	0.78	0.73	0.70	0.77	0.73	0.69	0.75	0.71	0.69	0.73	0.70	0.68	0.72	0.69	0.67	0.66
5	0.73	0.69	0.65	0.73	0.68	0.65	0.71	0.67	0.64	0.70	0.66	0.64	0.68	0.66	0.63	0.62
6	0.69	0.65	0.61	0.69	0.64	0.61	0.68	0.64	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	0.57	0.63	0.60	0.57	0.62	0.59	0.57	0.55
8	0.63	0.58	0.55	0.62	0.58	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.60	0.56	0.54	0.53
9	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.58	0.54	0.51	0.57	0.54	0.51	0.50
10	0.57	0.52	0.49	0.57	0.52	0.49	0.56	0.52	0.49	0.55	0.52	0.49	0.55	0.51	0.49	0.48

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/1/3	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	2721.38	2723.63	2701.69	2668.50	2617.88	2524.50	2437.88	2338.88	2211.75
45.0	2723.06	2715.19	2694.38	2645.44	2591.44	2520.56	2400.75	2284.31	2161.69
90.0	2712.94	2689.88	2658.94	2603.25	2525.06	2433.94	2328.19	2189.25	2075.06
135.0	2725.31	2711.25	2665.69	2607.75	2534.06	2439.00	2333.25	2238.19	2124.00
180.0	2721.38	2700.00	2651.63	2573.44	2490.75	2382.19	2277.56	2148.19	2018.25
225.0	2723.06	2709.56	2673.00	2611.69	2517.19	2411.44	2283.75	2150.44	2031.75
270.0	2712.94	2719.69	2702.81	2661.19	2602.69	2506.50	2385.00	2269.69	2165.63
315.0	2725.31	2720.81	2693.81	2646.00	2581.88	2486.25	2372.63	2264.63	2131.88
360.0	2721.38	2723.63	2701.69	2668.50	2617.88	2524.50	2437.88	2338.88	2211.75

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2082.38	1969.31	1841.06	1726.31	1600.88	1475.44	1363.50	1244.81	1135.13
45.0	2037.38	1911.94	1797.19	1670.63	1559.81	1437.19	1319.63	1222.88	1117.69
90.0	1961.44	1820.25	1710.00	1600.88	1477.69	1361.25	1261.69	1121.23	1066.56
135.0	2003.63	1888.88	1756.13	1643.06	1519.88	1399.50	1298.25	1206.00	1098.56
180.0	1902.38	1773.00	1649.25	1542.38	1437.75	1306.69	1187.44	1120.44	1030.33
225.0	1900.13	1770.75	1658.81	1545.19	1410.75	1303.88	1184.63	1117.69	1024.82
270.0	2002.50	1884.38	1778.63	1636.88	1514.25	1407.38	1289.81	1177.31	1087.88
315.0	2011.50	1874.25	1743.19	1630.13	1504.69	1380.38	1271.81	1118.64	1051.54
360.0	2082.38	1969.31	1841.06	1726.31	1600.88	1475.44	1363.50	1244.81	1135.13

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1049.63	972.56	888.75	827.44	772.88	712.13	671.06	635.63	601.31
45.0	1020.94	943.88	876.94	799.31	743.63	695.81	649.13	609.75	578.81
90.0	975.38	902.48	829.41	762.41	710.55	659.36	621.45	584.49	552.49
135.0	1017.00	944.44	864.56	804.38	750.38	694.13	650.25	615.94	585.56
180.0	948.94	885.09	822.71	763.03	716.40	671.12	635.79	600.19	567.17
225.0	959.57	900.17	830.14	776.19	720.84	663.69	616.50	583.03	547.82
270.0	995.63	920.81	843.75	774.56	725.63	673.88	627.19	588.94	556.88
315.0	974.98	905.85	835.59	771.36	719.44	669.71	632.03	595.24	564.19
360.0	1049.63	972.56	888.75	827.44	772.88	712.13	671.06	635.63	601.31

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	570.38	550.13	528.75	511.31	492.19	468.00	442.13	411.75	381.38
45.0	550.13	525.94	507.94	492.19	477.56	462.38	438.75	413.44	384.19
90.0	529.54	509.51	488.48	471.94	454.33	427.05	403.26	381.09	352.86
135.0	554.63	531.00	511.88	490.50	473.06	456.19	435.38	411.19	383.06
180.0	544.56	524.48	502.76	488.70	473.23	446.57	420.75	396.73	372.71
225.0	516.83	492.53	475.88	459.00	434.14	405.39	383.29	360.62	327.60
270.0	521.44	498.38	479.25	457.31	432.56	410.06	383.63	354.38	329.63
315.0	539.49	518.06	502.20	487.58	465.92	431.38	409.67	383.29	346.22
360.0	570.38	550.13	528.75	511.31	492.19	468.00	442.13	411.75	381.38

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	354.38	324.56	286.31	267.92	228.54	199.46	166.78	140.51	113.01
45.0	356.63	329.06	302.06	285.75	241.26	209.08	183.04	152.27	124.71
90.0	324.28	302.34	273.04	241.59	217.01	188.49	163.18	135.84	111.09
135.0	357.19	330.75	308.25	284.63	244.07	218.31	188.16	159.08	134.44
180.0	339.64	313.54	283.16	251.78	223.82	195.30	164.14	134.38	110.98
225.0	298.58	277.54	246.15	216.28	195.13	172.97	148.84	125.33	101.48
270.0	298.13	284.63	244.07	216.79	195.30	175.61	145.97	123.81	103.67
315.0	316.74	288.84	253.91	225.39	199.52	165.71	142.43	114.92	87.36
360.0	354.38	324.56	286.31	267.92	228.54	199.46	166.78	140.51	113.01

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	85.84	63.90	47.19	34.59	27.73	25.65	22.95	20.48	18.68
45.0	101.42	74.93	56.64	44.44	35.21	32.40	29.48	25.37	22.11
90.0	90.23	73.29	57.88	51.30	45.45	37.52	31.95	26.66	20.93
135.0	108.06	83.14	64.58	51.36	43.03	41.74	36.11	29.76	22.56
180.0	85.61	66.09	52.48	43.76	40.56	35.94	29.31	24.75	16.48
225.0	79.82	63.51	50.51	42.64	44.33	39.83	34.82	28.69	18.79
270.0	79.82	62.83	51.58	44.44	43.76	40.11	34.88	30.71	24.41
315.0	68.68	50.46	37.41	32.51	30.77	27.56	25.37	23.01	20.03
360.0	85.84	63.90	47.19	34.59	27.73	25.65	22.95	20.48	18.68

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	16.26	12.32	11.87	11.42	11.14	10.74	10.35	10.01	9.68
45.0	18.62	15.13	14.01	12.88	11.98	11.25	10.58	9.90	9.51
90.0	18.39	16.54	14.91	13.78	12.66	11.81	11.14	10.58	10.07
135.0	14.63	13.50	12.60	11.59	10.86	10.29	9.73	9.34	9.00
180.0	13.61	12.88	12.26	11.53	10.86	10.29	9.79	9.28	8.94
225.0	15.53	14.06	12.88	11.81	11.03	10.35	9.79	9.39	9.00
270.0	18.00	16.03	14.57	13.28	12.38	11.59	10.80	10.18	9.79
315.0	15.86	14.96	14.23	13.22	12.43	11.64	10.97	10.35	9.73
360.0	16.26	12.32	11.87	11.42	11.14	10.74	10.35	10.01	9.68

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.39	9.00	8.72	8.49	8.27	8.10	7.82	7.65	7.48
45.0	9.17	8.83	8.61	8.38	8.16	7.99	7.82	7.76	7.65
90.0	9.73	9.45	9.17	8.89	8.78	8.55	8.38	8.21	8.10
135.0	8.72	8.44	8.27	8.04	7.93	7.76	7.59	7.48	7.31
180.0	8.55	8.21	7.99	7.76	7.59	7.43	7.31	7.20	7.09
225.0	8.72	8.49	8.21	7.99	7.88	7.65	7.59	7.43	7.31
270.0	9.39	9.11	8.89	8.66	8.44	8.27	8.16	8.04	7.93
315.0	9.34	8.94	8.66	8.38	8.21	7.99	7.82	7.71	7.54
360.0	9.39	9.00	8.72	8.49	8.27	8.10	7.82	7.65	7.48

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.31	7.20	7.09	6.98	6.86	6.81	6.69	6.69	6.64
45.0	7.54	7.43	7.26	7.20	7.03	6.98	6.86	6.75	6.69
90.0	7.99	7.82	7.71	7.59	7.43	7.26	7.14	6.98	6.69
135.0	7.20	7.09	6.98	6.98	7.14	7.48	7.82	7.88	7.88
180.0	6.98	7.20	7.59	7.99	8.61	8.89	9.28	9.34	9.00
225.0	7.26	7.31	7.59	7.82	7.88	8.33	8.78	8.21	8.27
270.0	7.82	7.71	7.59	7.71	7.82	8.04	8.33	8.33	8.49
315.0	7.43	7.31	7.20	7.09	6.98	6.98	6.98	6.98	6.86
360.0	7.31	7.20	7.09	6.98	6.86	6.81	6.69	6.69	6.64

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.53	6.47	6.19	6.08	5.96	5.91	5.74	5.18	5.12
45.0	6.64	6.53	6.41	6.41	6.36	6.24	5.34	5.18	5.06
90.0	6.58	6.41	6.24	6.13	6.08	5.18	4.95	4.84	4.73
135.0	7.37	6.69	6.69	6.81	6.86	5.23	5.12	5.01	4.95
180.0	7.76	6.58	6.69	6.86	6.98	5.18	5.18	5.06	5.06
225.0	7.48	6.69	6.41	6.47	6.53	6.53	5.06	4.95	4.89
270.0	7.93	7.48	6.75	6.58	6.47	6.30	6.13	5.01	4.84
315.0	6.69	6.58	6.47	6.47	6.36	6.13	5.96	5.12	5.01
360.0	6.53	6.47	6.19	6.08	5.96	5.91	5.74	5.18	5.12

Intensity data(cd)

C/γ(°)	90.0
0.0	5.06
45.0	4.89
90.0	4.73
135.0	4.89
180.0	5.01
225.0	4.89
270.0	4.73
315.0	4.84
360.0	5.06