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NATA

LumCAT: 3-1549-A3
Luminaire: 99.02.73.172+92.76.365.00

Report No: NATA0100	Voltage(V): 35.0000
Test No: GC2019011516	Current(A): 0.5000
LampCAT: CITIZEN CLU720	Power (W): 17.5000
Lamp flux(lm): 1995.0	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): 1808.20
Efficiency(%): 90.64%
Lumens(lm)/Power(W): 103.43
Central intensity(cd): 7898.414
Maximum intensity(cd): 7898.414
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=21.7
[C90/270]Total=21.7
Field angle(10%Imax): [C0/180]Total=48.2
[C90/270]Total=48.2
Maximum s/h(1/2): C0_180=0.37 C90_270=0.37
Maximum s/h(1/4): C0_180=0.37 C90_270=0.37
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.73%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.599%

Equipment: GMS1980	Date: 2019/1/15	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	7898.414	1.890	1.89	.095%	.105%
1.0	7866.563	15.055	16.945	.755%	.937%
2.0	7757.367	29.688	46.633	1.488%	2.579%
3.0	7569.422	43.442	90.076	2.178%	4.982%
4.0	7302.305	55.859	145.935	2.800%	8.071%
5.0	6934.781	66.280	212.215	3.322%	11.736%
6.0	6525.281	74.797	287.012	3.749%	15.873%
7.0	6041.320	80.738	367.75	4.047%	20.338%
8.0	5517.281	84.204	451.954	4.221%	24.995%
9.0	4986.000	85.534	537.488	4.287%	29.725%
10.0	4426.523	84.292	621.779	4.225%	34.387%
11.0	3851.086	80.581	702.36	4.039%	38.843%
12.0	3321.703	75.734	778.095	3.796%	43.031%
13.0	2836.969	69.983	848.078	3.508%	46.902%
14.0	2411.438	63.974	912.052	3.207%	50.440%
15.0	2071.617	58.797	970.849	2.947%	53.692%
16.0	1764.844	53.345	1024.194	2.674%	56.642%
17.0	1519.805	48.728	1072.922	2.442%	59.337%
18.0	1326.656	44.957	1117.878	2.253%	61.823%
19.0	1200.558	42.862	1160.741	2.148%	64.193%
20.0	1071.169	40.176	1200.916	2.014%	66.415%
21.0	991.371	38.960	1239.876	1.953%	68.570%
22.0	914.344	37.561	1277.437	1.883%	70.647%
23.0	847.118	36.297	1313.734	1.819%	72.654%
24.0	793.898	35.410	1349.145	1.775%	74.613%
25.0	752.280	34.864	1384.009	1.748%	76.541%
26.0	722.173	34.716	1418.725	1.740%	78.461%
27.0	697.887	34.744	1453.47	1.742%	80.382%
28.0	676.132	34.809	1488.279	1.745%	82.307%
29.0	655.882	34.870	1523.148	1.748%	84.236%
30.0	639.738	35.077	1558.226	1.758%	86.176%
31.0	625.978	35.355	1593.581	1.772%	88.131%
32.0	602.177	34.993	1628.574	1.754%	90.066%
33.0	561.220	33.519	1662.093	1.680%	91.920%
34.0	493.664	30.272	1692.365	1.517%	93.594%
35.0	397.659	25.012	1717.378	1.254%	94.977%
36.0	311.077	20.051	1737.429	1.005%	96.086%
37.0	209.995	13.859	1751.288	.695%	96.853%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	117.942	7.963	1759.25	.399%	97.293%
39.0	60.645	4.185	1763.435	.210%	97.524%
40.0	33.349	2.351	1765.786	.118%	97.654%
41.0	23.927	1.721	1767.508	.086%	97.750%
42.0	21.291	1.562	1769.07	.078%	97.836%
43.0	18.788	1.405	1770.475	.070%	97.914%
44.0	16.495	1.257	1771.732	.063%	97.983%
45.0	13.901	1.078	1772.809	.054%	98.043%
46.0	11.820	0.932	1773.742	.047%	98.094%
47.0	9.893	0.793	1774.535	.040%	98.138%
48.0	9.661	0.787	1775.323	.039%	98.182%
49.0	9.443	0.782	1776.104	.039%	98.225%
50.0	9.281	0.780	1776.884	.039%	98.268%
51.0	9.134	0.778	1777.662	.039%	98.311%
52.0	9.007	0.778	1778.44	.039%	98.354%
53.0	8.866	0.777	1779.217	.039%	98.397%
54.0	8.740	0.775	1779.992	.039%	98.440%
55.0	8.648	0.777	1780.769	.039%	98.483%
56.0	8.543	0.777	1781.546	.039%	98.526%
57.0	8.430	0.775	1782.321	.039%	98.569%
58.0	8.353	0.777	1783.098	.039%	98.612%
59.0	8.276	0.778	1783.876	.039%	98.655%
60.0	8.184	0.777	1784.653	.039%	98.698%
61.0	8.114	0.778	1785.431	.039%	98.741%
62.0	8.058	0.780	1786.212	.039%	98.784%
63.0	8.002	0.782	1786.993	.039%	98.827%
64.0	7.945	0.783	1787.777	.039%	98.871%
65.0	7.896	0.785	1788.561	.039%	98.914%
66.0	7.854	0.787	1789.348	.039%	98.957%
67.0	7.819	0.789	1790.137	.040%	99.001%
68.0	7.777	0.791	1790.928	.040%	99.045%
69.0	7.727	0.791	1791.719	.040%	99.089%
70.0	7.692	0.793	1792.512	.040%	99.132%
71.0	7.671	0.795	1793.307	.040%	99.176%
72.0	7.643	0.797	1794.104	.040%	99.221%
73.0	7.615	0.799	1794.903	.040%	99.265%
74.0	7.594	0.800	1795.703	.040%	99.309%
75.0	7.573	0.802	1796.506	.040%	99.353%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.552	0.804	1797.309	.040%	99.398%
77.0	7.530	0.805	1798.114	.040%	99.442%
78.0	7.495	0.804	1798.918	.040%	99.487%
79.0	7.502	0.808	1799.725	.040%	99.531%
80.0	7.467	0.806	1800.532	.040%	99.576%
81.0	7.453	0.807	1801.339	.040%	99.621%
82.0	7.432	0.807	1802.146	.040%	99.665%
83.0	7.432	0.809	1802.955	.041%	99.710%
84.0	7.425	0.810	1803.765	.041%	99.755%
85.0	7.404	0.809	1804.574	.041%	99.800%
86.0	7.390	0.808	1805.382	.041%	99.844%
87.0	7.362	0.806	1806.188	.040%	99.889%
88.0	7.341	0.804	1806.993	.040%	99.933%
89.0	7.334	0.804	1807.797	.040%	99.978%
90.0	7.334	0.402	1808.199	.020%	100.000%

Zonal flux distribution table

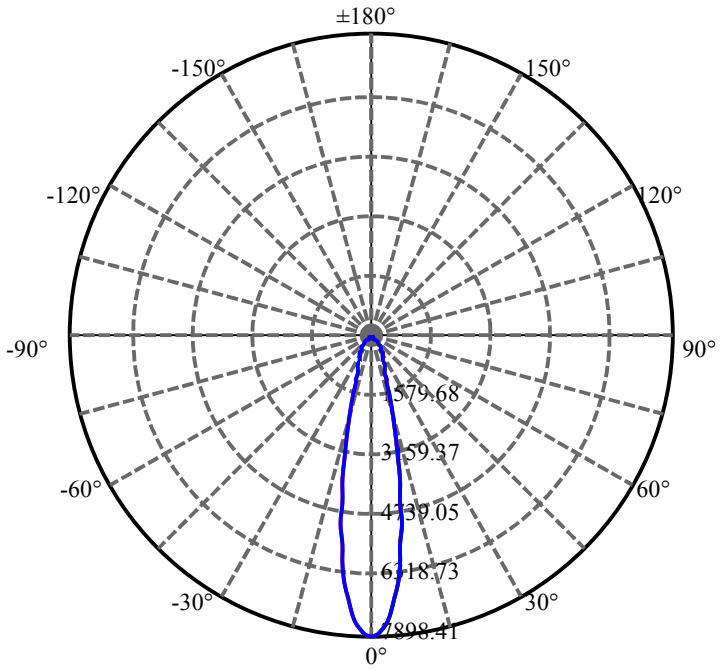
ZONAL LUMEN SUMMARY

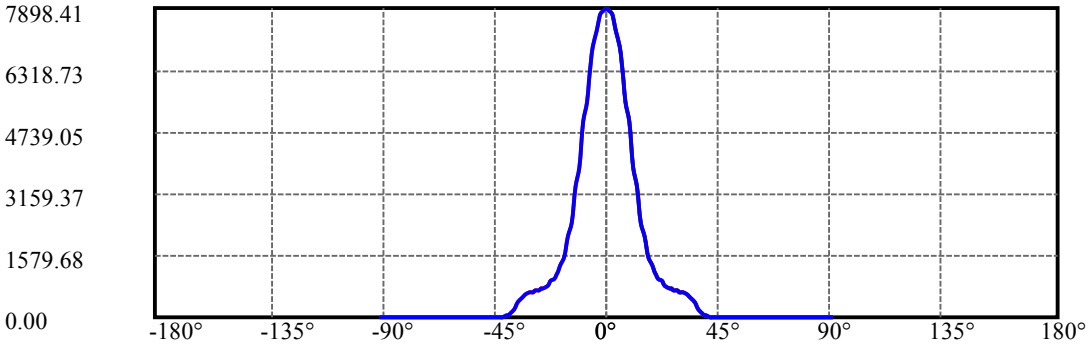
Zone	Lumens	%Lamp	%Fixt
0-30	1558.23	78.11%	86.18%
0-40	1765.79	88.51%	97.65%
0-60	1784.65	89.46%	98.70%
0-90	1807.80	90.62%	99.98%
0-120	1807.80	90.62%	99.98%
0-180	1808.20	90.64%	100.00%
60-90	23.92	1.20%	1.32%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.80	1446.56	72.51%	80.00%

ZONAL LUMEN SUMMARY

0-10	621.78
10-20	579.14
20-30	357.31
30-40	207.56
40-50	11.10
50-60	7.77
60-70	7.86
70-80	8.02
80-90	7.27
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):

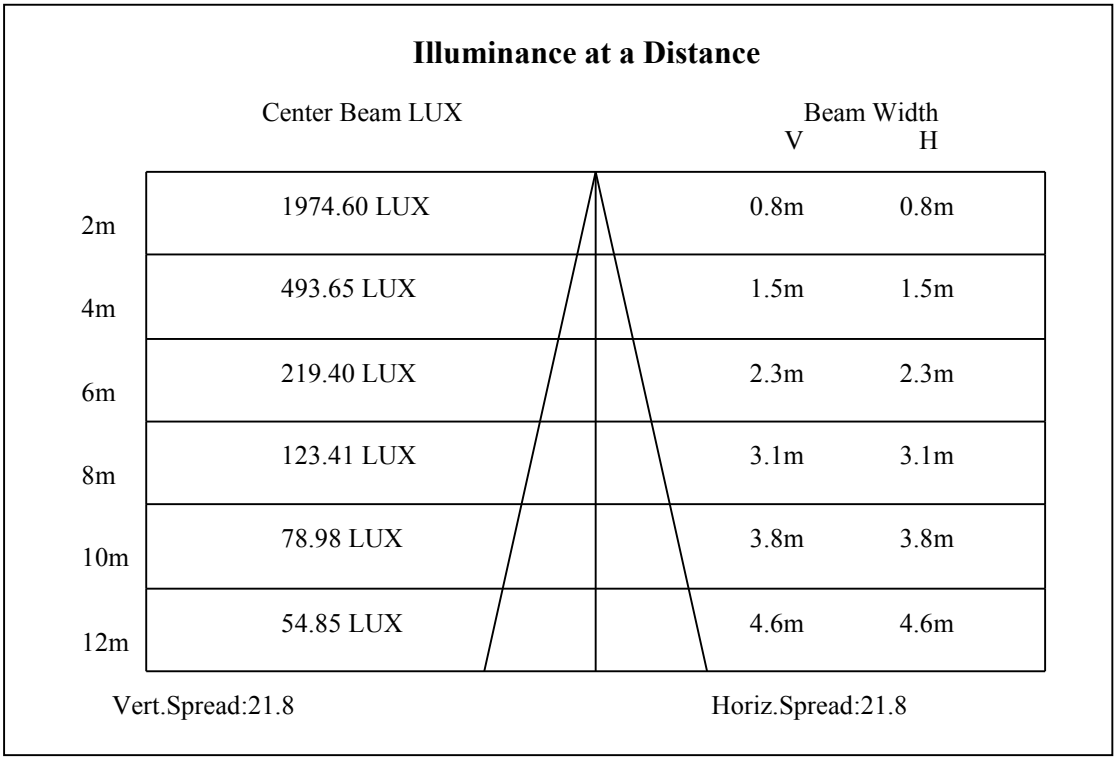
C0/C180:

C90/C270:

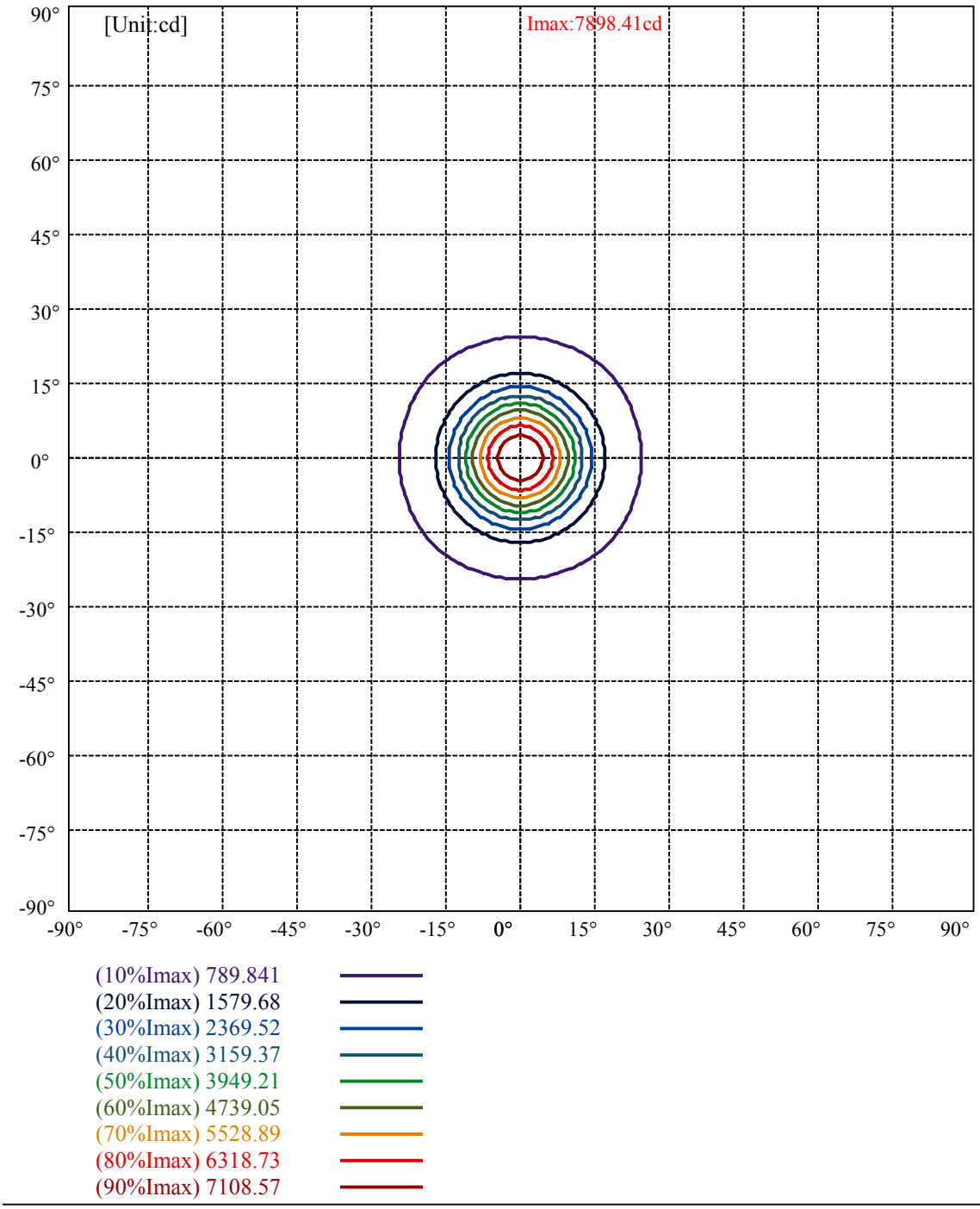
Field angle(10%Imax):C0/180Left:24.1 Right:24.1
:C90/270Left:24.1 Right:24.1

Beam Angle(50%Imax):C0/180Left:10.8 Right:10.8
:C90/270Left:10.8 Right:10.8

Lux distance Curve



ISO-Intensity(V-H)

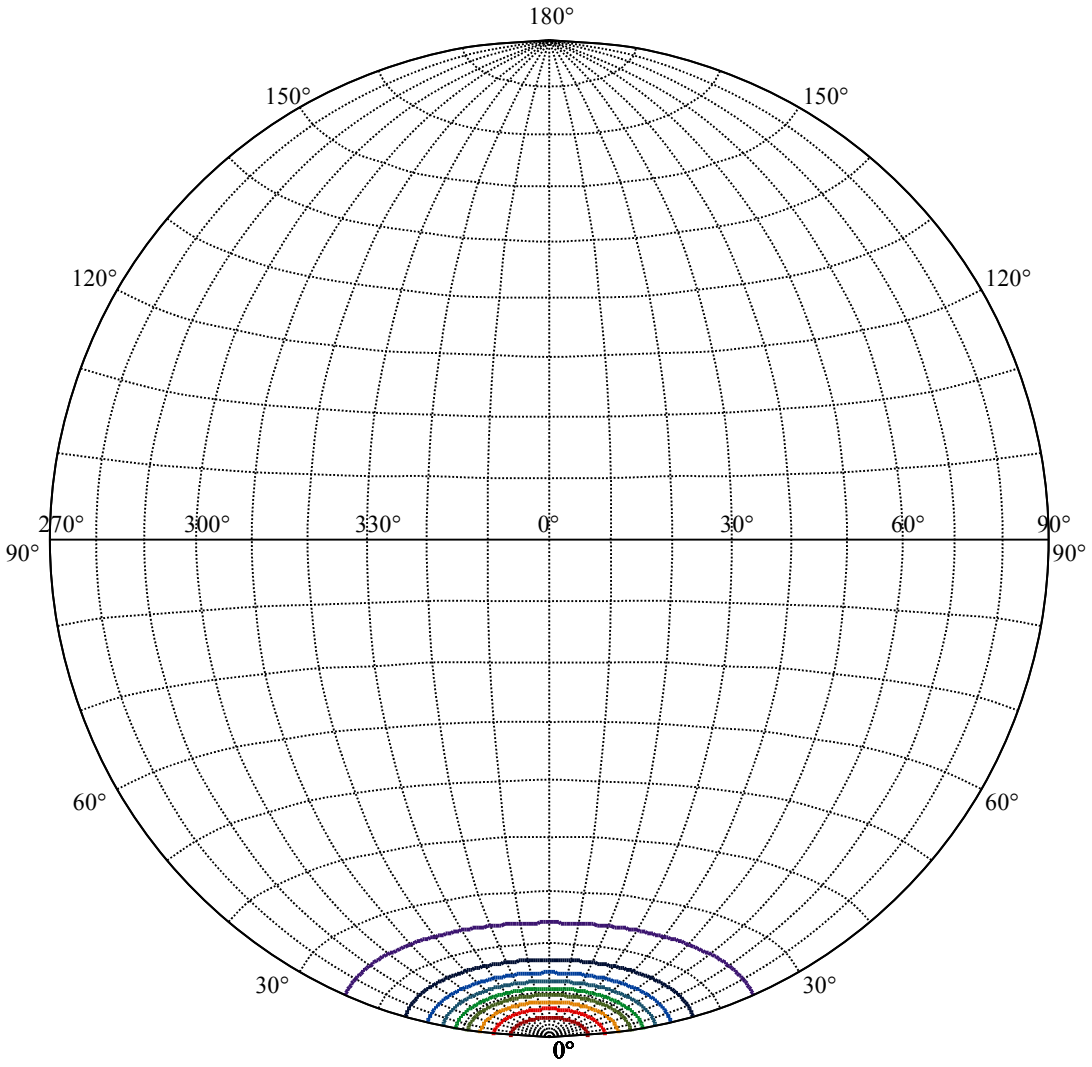


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/15
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



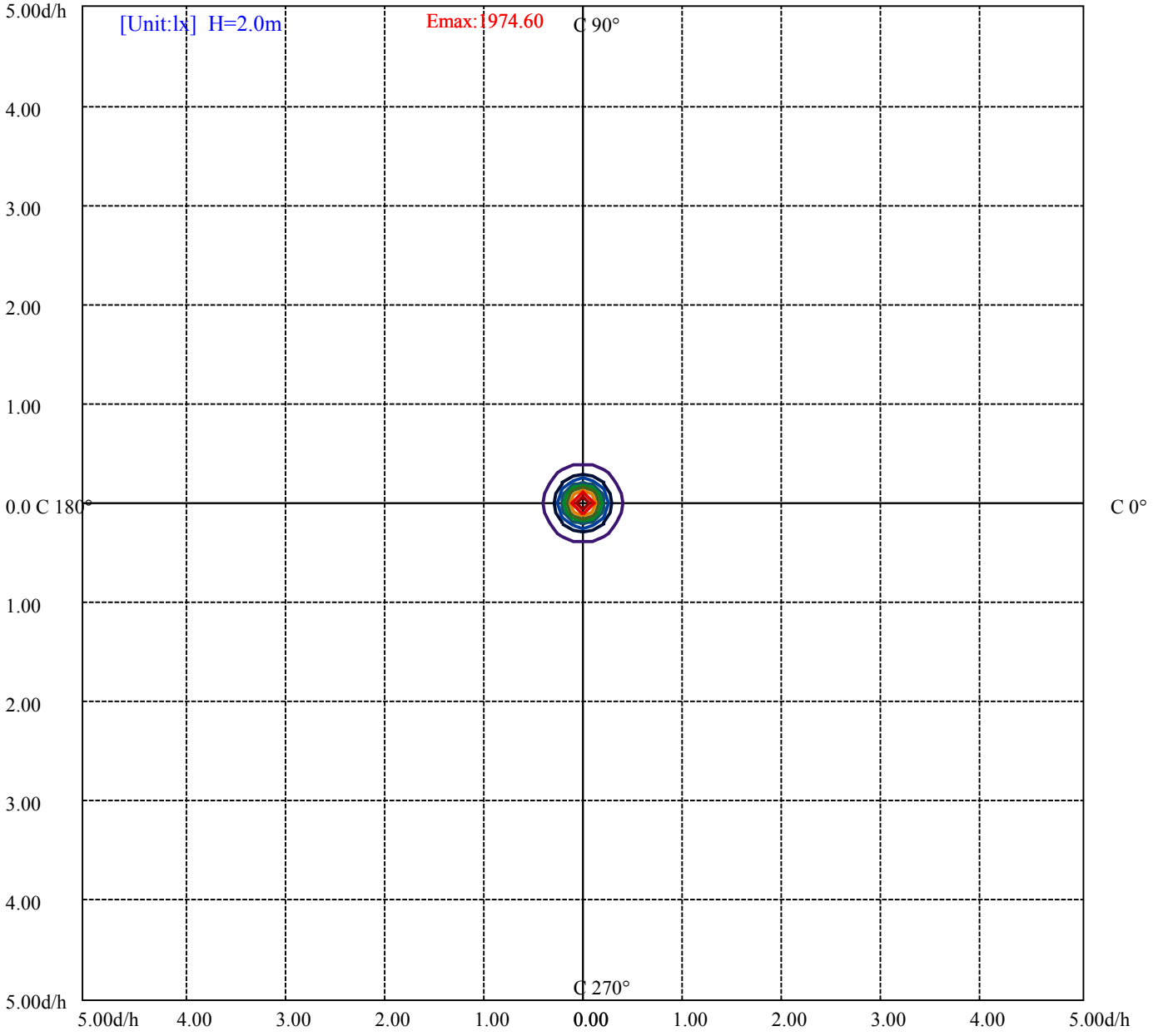
House [Unit:cd] Road

Imax:7898.41

(10%Imax) 789.841
(20%Imax) 1579.68
(30%Imax) 2369.52
(40%Imax) 3159.37
(50%Imax) 3949.21
(60%Imax) 4739.05
(70%Imax) 5528.89
(80%Imax) 6318.73
(90%Imax) 7108.57

Equipment: GMS1980 Date: 2019/1/15 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO illuminance diagram

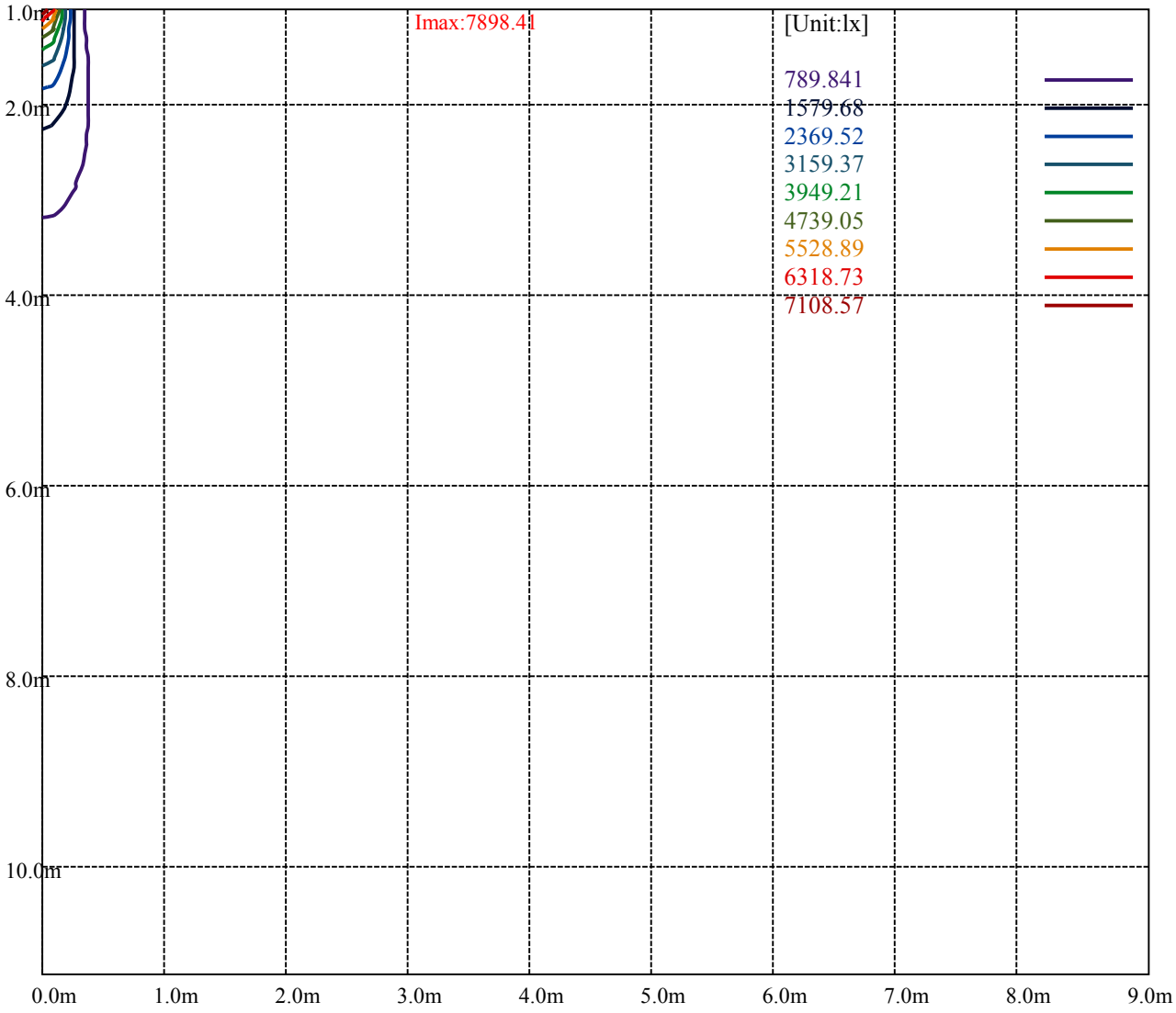


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/15
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/15
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

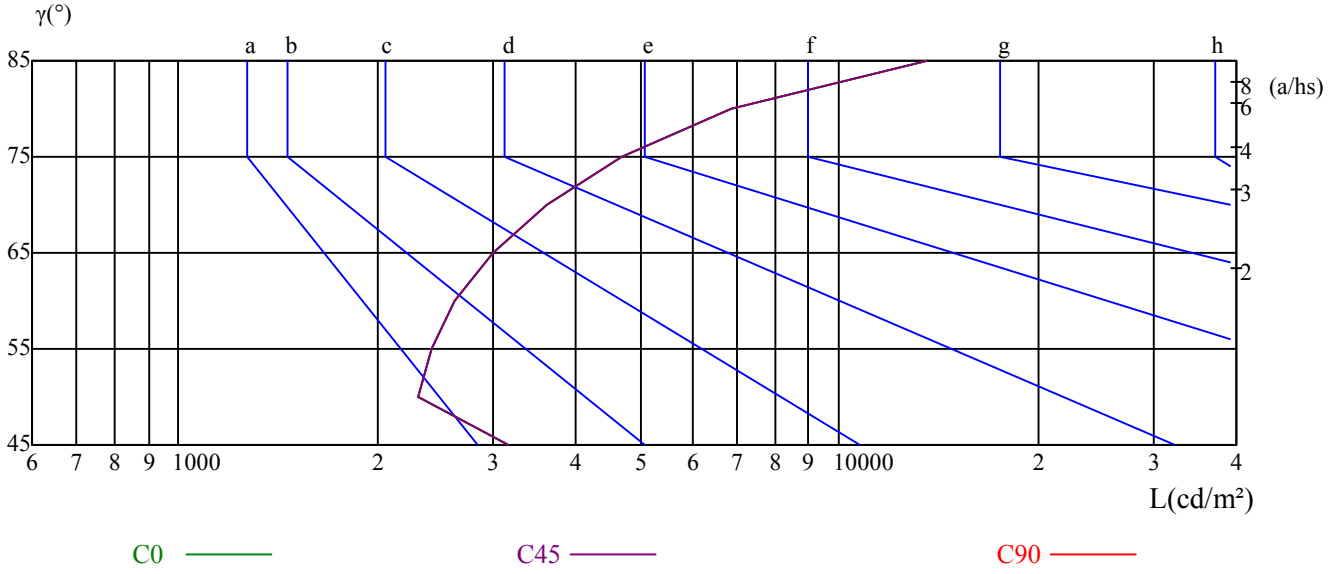
γ	45	50	55	60	65	70	75	80	85
C0	3150	2314	2416	2623	2994	3604	4688	6890	13612
C45	3150	2314	2416	2623	2994	3604	4688	6890	13612
C90	3150	2314	2416	2623	2994	3604	4688	6890	13612

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2994	2994	2994	4688	4688	4688	13612	13612	13612

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

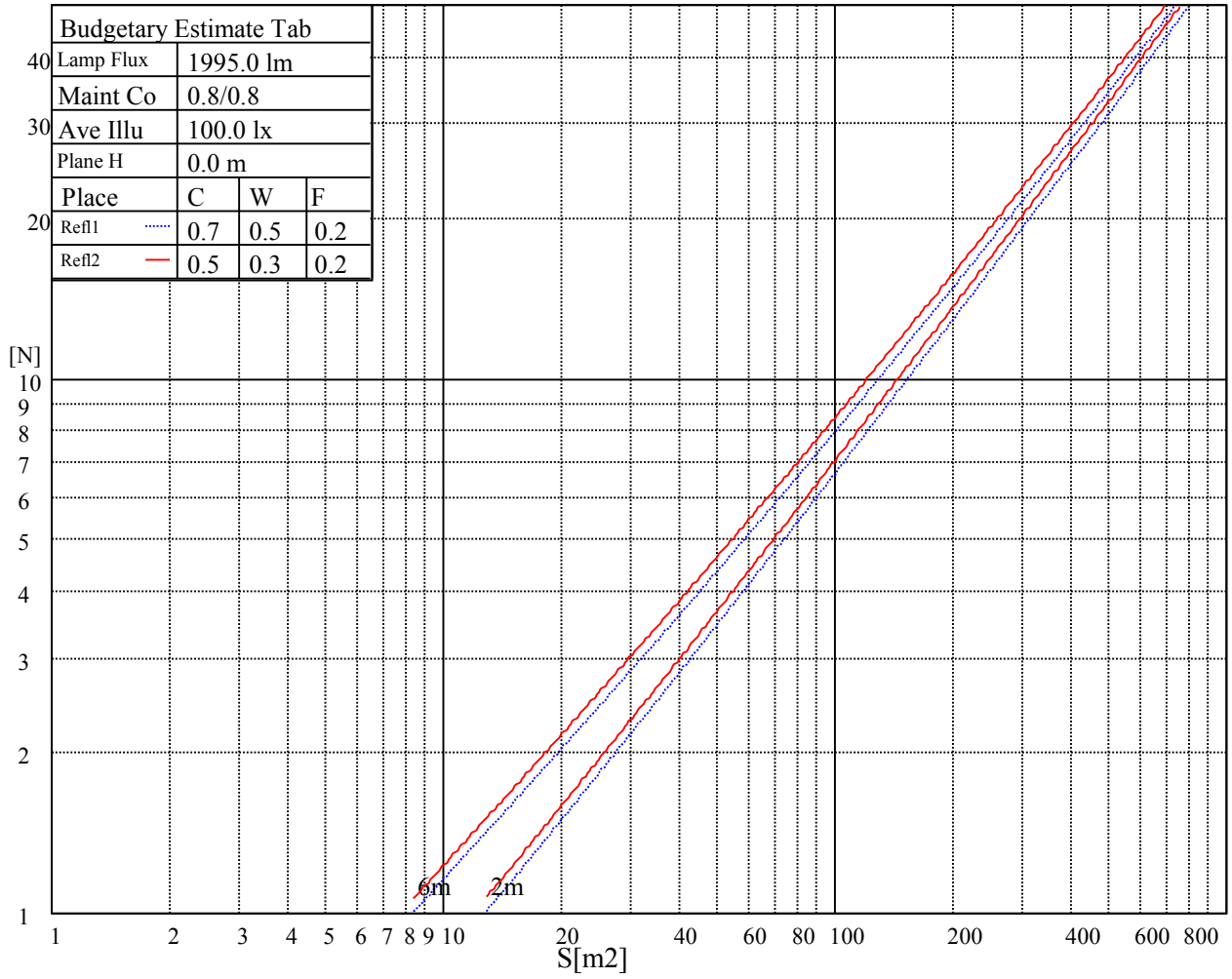


UGR Glare

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	1.88	2.80	2.25	3.11	3.42	1.82	2.74	2.19	3.05	3.36
	3H	5.05	5.86	5.44	6.19	6.56	4.96	5.77	5.35	6.10	6.47
	4H	6.78	7.52	7.18	7.87	8.27	6.69	7.44	7.10	7.79	8.18
	6H	8.71	9.39	9.13	9.77	10.17	8.64	9.32	9.06	9.69	10.09
	8H	9.79	10.43	10.23	10.82	11.23	9.71	10.35	10.15	10.74	11.16
	12H	11.55	12.16	11.99	12.54	12.98	11.47	12.08	11.91	12.46	12.89
4H	2H	2.76	3.51	3.17	3.86	4.25	2.72	3.47	3.13	3.82	4.21
	3H	6.19	6.80	6.61	7.21	7.62	6.11	6.72	6.53	7.13	7.54
	4H	8.08	8.63	8.52	9.05	9.50	8.02	8.56	8.45	8.99	9.44
	6H	10.18	10.65	10.65	11.10	11.58	10.12	10.58	10.59	11.03	11.51
	8H	11.36	11.79	11.84	12.25	12.72	11.29	11.73	11.77	12.18	12.65
	12H	13.02	13.39	13.51	13.88	14.36	12.95	13.32	13.44	13.81	14.29
8H	4H	8.80	9.23	9.27	9.68	10.16	8.75	9.18	9.23	9.63	10.11
	6H	11.17	11.51	11.68	12.02	12.50	11.12	11.46	11.63	11.96	12.45
	8H	12.54	12.84	13.07	13.36	13.86	12.48	12.79	13.02	13.31	13.81
	12H	14.33	14.59	14.86	15.09	15.67	14.28	14.54	14.80	15.04	15.62
12H	4H	9.00	9.37	9.49	9.86	10.34	8.95	9.33	9.45	9.82	10.29
	6H	11.68	11.79	12.02	12.26	12.81	11.64	11.74	11.97	12.21	12.76
	8H	12.98	13.24	13.51	13.74	14.32	12.94	13.19	13.46	13.69	14.28

Variation with the observer position at spacings:		
S = 1.0H	5.8/-7.5	5.8/-7.5
S = 1.5H	8.0/-5.6	8.0/-5.6
S = 2.0H	9.4/-4.1	9.4/-4.1
Standard tables:	BK3	BK3
Uncorrected UGR	-0.1	-0.1

Budgetary Estimate Table

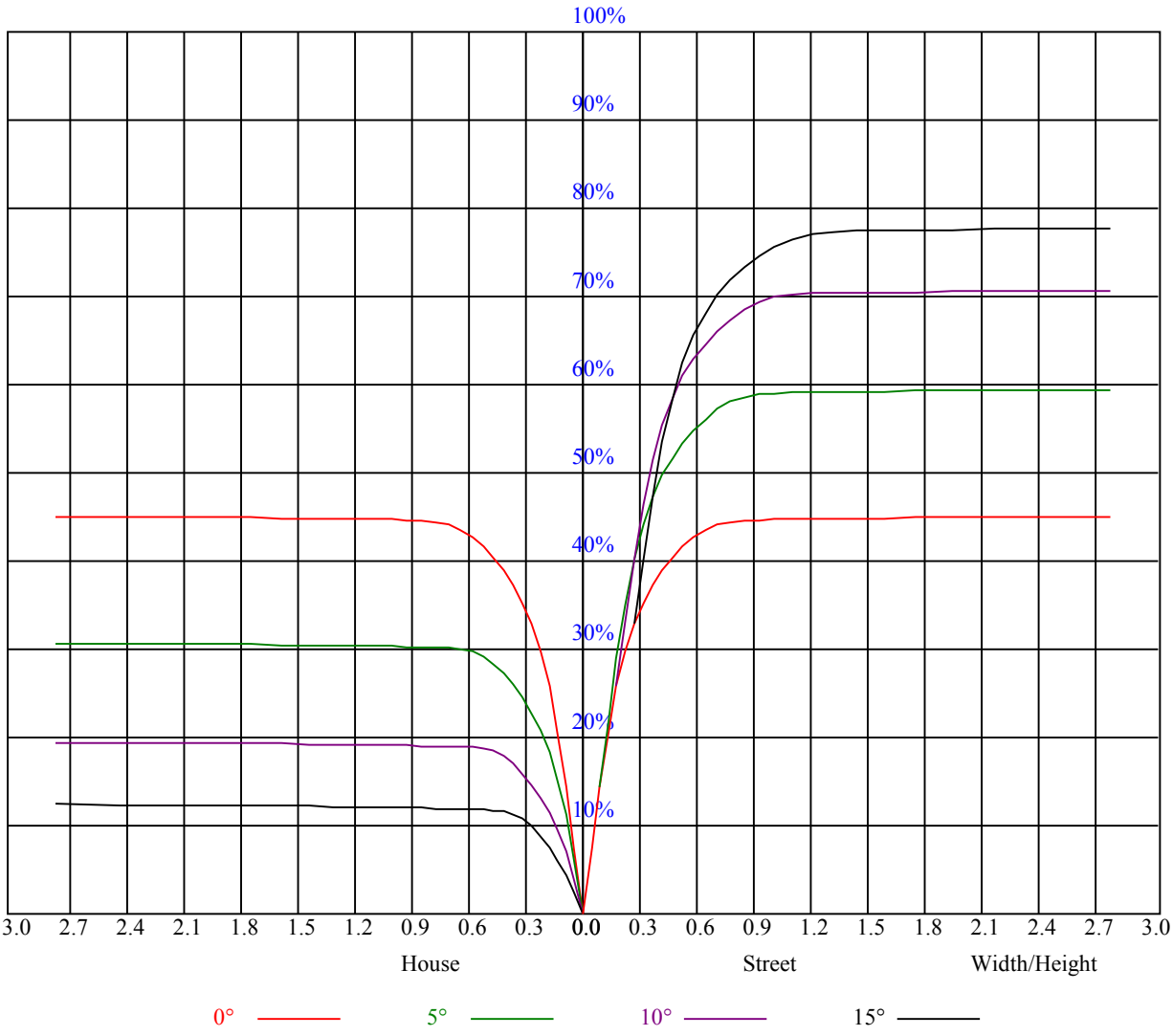


Equipment: GMS1980 Date: 2019/1/15 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.02	1.00	0.98	1.00	0.98	0.96	0.96	0.95	0.93	0.93	0.92	0.91	0.90	0.89	0.88	0.86
2	0.96	0.93	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.87	0.86	0.87	0.85	0.84	0.83
3	0.92	0.88	0.85	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.84	0.82	0.80	0.79
4	0.87	0.83	0.80	0.86	0.83	0.80	0.85	0.81	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
5	0.84	0.80	0.76	0.83	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.79	0.76	0.74	0.73
6	0.80	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.72	0.76	0.74	0.72	0.71
7	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
8	0.75	0.70	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
9	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.70	0.67	0.65	0.64
10	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.62

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/1/15	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	7919.44	7859.81	7702.31	7473.94	7125.75	6741.00	6257.25	5725.13	5217.19
45.0	7896.38	7810.31	7588.69	7329.94	7004.81	6516.00	6067.69	5573.25	4981.50
90.0	7882.31	7792.31	7642.69	7388.44	7047.00	6678.56	6255.56	5659.88	5137.88
135.0	7898.63	7899.75	7838.44	7720.31	7505.44	7200.56	6857.44	6402.38	5895.00
180.0	7919.44	7914.94	7866.56	7711.31	7507.13	7231.50	6789.38	6373.13	5911.31
225.0	7896.38	7931.25	7909.88	7791.75	7614.56	7289.44	6995.81	6564.94	6072.19
270.0	7876.13	7897.50	7853.63	7719.19	7542.56	7182.56	6779.25	6365.81	5910.75
315.0	7898.63	7826.63	7656.75	7420.50	7071.19	6638.63	6199.88	5666.06	5012.44
360.0	7919.44	7859.81	7702.31	7473.94	7125.75	6741.00	6257.25	5725.13	5217.19

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4687.88	4160.25	3521.25	3051.56	2534.06	2176.31	1870.88	1567.69	1384.88
45.0	4375.69	3778.31	3281.63	2781.56	2350.13	2026.69	1759.50	1521.00	1337.06
90.0	4595.63	4066.31	3444.75	2990.81	2534.63	2147.63	1863.00	1608.19	1407.38
135.0	5397.75	4866.75	4266.00	3677.63	3198.94	2712.94	2290.50	1976.06	1694.25
180.0	5343.75	4752.00	4224.94	3648.38	3171.94	2693.25	2272.50	1954.13	1666.13
225.0	5650.88	5007.38	4398.75	3930.19	3302.44	2807.44	2462.63	2071.13	1711.13
270.0	5292.00	4772.81	4241.25	3592.69	3112.88	2630.25	2252.81	1887.75	1624.50
315.0	4544.44	4008.38	3430.13	2900.81	2490.75	2097.00	1801.13	1532.81	1333.13
360.0	4687.88	4160.25	3521.25	3051.56	2534.06	2176.31	1870.88	1567.69	1384.88

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1243.69	1131.75	1017.00	939.38	880.88	812.81	768.94	736.31	713.25
45.0	1206.56	1095.75	1009.13	925.31	861.19	804.94	761.63	732.94	707.06
90.0	1266.19	1110.71	1040.06	956.98	870.86	817.71	776.03	736.71	712.41
135.0	1461.38	1316.81	1177.31	1080.00	987.75	905.06	839.25	792.00	747.00
180.0	1442.81	1289.81	1111.44	1041.69	959.46	886.95	817.99	764.55	730.74
225.0	1496.81	1329.75	1112.46	1064.64	979.93	906.92	836.10	778.50	741.15
270.0	1379.81	1250.44	1119.94	1014.75	936.56	860.63	805.50	757.69	728.44
315.0	1116.00	1079.44	982.01	908.21	838.13	781.93	745.76	719.55	697.33
360.0	1243.69	1131.75	1017.00	939.38	880.88	812.81	768.94	736.31	713.25

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	694.13	672.75	654.19	641.81	630.56	600.19	537.19	454.50	338.06
45.0	681.19	659.81	641.81	625.50	610.88	563.63	492.19	396.56	289.13
90.0	690.08	664.65	644.57	628.59	614.25	588.21	528.86	436.95	346.22
135.0	718.31	694.13	667.13	648.56	632.81	618.19	604.69	558.56	475.31
180.0	705.88	681.02	659.25	640.69	627.19	613.86	597.49	559.41	460.69
225.0	711.45	691.26	669.09	649.74	635.68	624.09	610.03	573.92	496.74
270.0	705.38	686.81	667.69	652.50	636.75	626.06	609.19	544.50	461.81
315.0	676.69	658.63	643.33	630.51	619.71	583.20	510.13	424.91	313.31
360.0	694.13	672.75	654.19	641.81	630.56	600.19	537.19	454.50	338.06

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	290.25	148.33	63.84	27.51	23.68	22.11	19.41	17.38	16.26
45.0	230.01	105.53	46.86	28.52	26.21	24.02	20.87	19.07	16.43
90.0	242.78	157.84	83.42	36.39	26.49	24.41	21.88	19.24	18.00
135.0	385.31	286.88	168.47	95.68	45.73	24.41	22.50	20.25	17.10
180.0	371.42	277.71	168.81	92.03	42.53	27.84	25.26	21.77	18.56
225.0	397.13	299.81	205.26	104.06	50.06	27.51	24.41	21.71	17.94
270.0	357.75	285.19	155.59	77.23	31.67	23.34	20.98	17.55	14.96
315.0	213.98	118.69	51.30	23.74	20.42	17.78	15.02	13.33	12.71
360.0	290.25	148.33	63.84	27.51	23.68	22.11	19.41	17.38	16.26

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	13.11	9.96	9.73	9.51	9.34	9.11	9.06	8.89	8.78
45.0	10.24	9.90	9.73	9.56	9.39	9.28	9.17	9.06	8.89
90.0	14.18	9.96	9.79	9.62	9.39	9.28	9.11	9.06	8.89
135.0	16.31	14.46	9.96	9.73	9.51	9.39	9.23	9.06	8.94
180.0	17.04	13.89	9.90	9.68	9.51	9.28	9.11	9.00	8.83
225.0	15.86	14.40	10.18	9.84	9.62	9.45	9.23	9.11	8.94
270.0	13.89	11.98	10.07	9.79	9.51	9.34	9.23	9.06	8.94
315.0	10.58	10.01	9.79	9.56	9.28	9.11	8.94	8.83	8.72
360.0	13.11	9.96	9.73	9.51	9.34	9.11	9.06	8.89	8.78

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	8.66	8.55	8.49	8.38	8.33	8.27	8.16	8.10	7.99
45.0	8.72	8.66	8.61	8.49	8.38	8.33	8.27	8.16	8.16
90.0	8.72	8.66	8.55	8.44	8.38	8.27	8.21	8.10	8.10
135.0	8.83	8.72	8.61	8.49	8.38	8.33	8.21	8.16	8.04
180.0	8.72	8.61	8.49	8.33	8.27	8.21	8.10	8.04	7.99
225.0	8.83	8.72	8.61	8.49	8.44	8.33	8.21	8.16	8.10
270.0	8.83	8.72	8.55	8.49	8.38	8.33	8.21	8.16	8.10
315.0	8.61	8.55	8.44	8.33	8.27	8.16	8.10	8.04	7.99
360.0	8.66	8.55	8.49	8.38	8.33	8.27	8.16	8.10	7.99

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.99	7.88	7.88	7.82	7.76	7.76	7.71	7.65	7.65
45.0	8.10	8.04	7.93	7.93	7.88	7.82	7.76	7.76	7.71
90.0	8.04	7.99	7.93	7.88	7.82	7.82	7.76	7.76	7.71
135.0	7.99	7.93	7.93	7.88	7.82	7.76	7.71	7.65	7.65
180.0	7.88	7.88	7.82	7.76	7.76	7.65	7.65	7.59	7.59
225.0	8.04	7.99	7.93	7.88	7.88	7.82	7.76	7.71	7.65
270.0	8.04	7.99	7.93	7.88	7.88	7.82	7.76	7.76	7.76
315.0	7.93	7.88	7.82	7.82	7.76	7.76	7.71	7.65	7.65
360.0	7.99	7.88	7.88	7.82	7.76	7.76	7.71	7.65	7.65

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.59	7.59	7.54	7.54	7.48	7.48	7.43	7.43	7.43
45.0	7.71	7.65	7.65	7.59	7.59	7.54	7.54	7.54	7.54
90.0	7.65	7.59	7.59	7.54	7.54	7.54	7.48	7.48	7.43
135.0	7.59	7.59	7.59	7.54	7.54	7.54	7.48	7.48	7.43
180.0	7.54	7.54	7.54	7.48	7.48	7.43	7.43	7.43	7.37
225.0	7.71	7.65	7.59	7.65	7.59	7.59	7.54	7.54	7.54
270.0	7.71	7.71	7.65	7.65	7.59	7.59	7.59	7.59	7.54
315.0	7.65	7.59	7.59	7.59	7.59	7.54	7.48	7.54	7.48
360.0	7.59	7.59	7.54	7.54	7.48	7.48	7.43	7.43	7.43

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.43	7.37	7.37	7.37	7.37	7.31	7.31	7.26	7.31
45.0	7.48	7.48	7.43	7.48	7.43	7.43	7.37	7.37	7.37
90.0	7.43	7.43	7.48	7.43	7.43	7.43	7.37	7.37	7.31
135.0	7.43	7.43	7.43	7.43	7.43	7.37	7.37	7.31	7.31
180.0	7.37	7.37	7.37	7.31	7.31	7.31	7.31	7.31	7.26
225.0	7.48	7.48	7.48	7.48	7.43	7.48	7.48	7.43	7.43
270.0	7.54	7.48	7.48	7.48	7.48	7.43	7.37	7.37	7.37
315.0	7.48	7.43	7.43	7.43	7.37	7.37	7.31	7.31	7.31
360.0	7.43	7.37	7.37	7.37	7.37	7.31	7.31	7.26	7.31

Intensity data(cd)

C/γ(°)	90.0
0.0	7.31
45.0	7.37
90.0	7.37
135.0	7.31
180.0	7.26
225.0	7.37
270.0	7.37
315.0	7.31
360.0	7.31