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Nata

LumCAT: 1426-N
Luminaire: 92.70.043.00+92.70.147.00

Report No: NATA0100	Voltage(V): 37.3000
Test No: GC2018092607	Current(A): 0.2100
LampCAT: CITIZEN CLU7A2-1201C9	Power (W): 7.8330
Lamp flux(lm): 762.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 46	Width(mm): 46
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 605.89
Efficiency(%): 79.51%
Lumens(lm)/Power(W): 77.49
Central intensity(cd): 4726.406
Maximum intensity(cd): 4726.406
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=14.4
[C90/270]Total=14.4
Field angle(10%Imax): [C0/180]Total=30.4
[C90/270]Total=30.4
Maximum s/h(1/2): C0_180=0.25 C90_270=0.25
Maximum s/h(1/4): C0_180=0.25 C90_270=0.25
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 79.66%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.712%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4726.406	1.131	1.131	.148%	.187%
1.0	4656.586	8.912	10.043	1.170%	1.658%
2.0	4457.250	17.058	27.101	2.239%	4.473%
3.0	4155.609	23.850	50.951	3.130%	8.409%
4.0	3790.828	28.998	79.949	3.806%	13.195%
5.0	3345.328	31.973	111.922	4.196%	18.472%
6.0	2905.875	33.309	145.232	4.371%	23.970%
7.0	2446.523	32.696	177.928	4.291%	29.366%
8.0	2018.391	30.804	208.732	4.043%	34.450%
9.0	1596.839	27.393	236.125	3.595%	38.971%
10.0	1264.402	24.077	260.203	3.160%	42.945%
11.0	971.234	20.322	280.525	2.667%	46.299%
12.0	799.116	18.220	298.745	2.391%	49.306%
13.0	654.947	16.156	314.901	2.120%	51.973%
14.0	554.288	14.705	329.606	1.930%	54.400%
15.0	482.210	13.686	343.292	1.796%	56.659%
16.0	428.386	12.949	356.241	1.699%	58.796%
17.0	386.761	12.400	368.641	1.627%	60.842%
18.0	350.290	11.870	380.511	1.558%	62.802%
19.0	321.588	11.481	391.993	1.507%	64.697%
20.0	295.671	11.090	403.082	1.455%	66.527%
21.0	270.084	10.614	413.696	1.393%	68.279%
22.0	247.859	10.182	423.878	1.336%	69.959%
23.0	225.991	9.683	433.562	1.271%	71.557%
24.0	207.914	9.274	442.835	1.217%	73.088%
25.0	190.927	8.848	451.684	1.161%	74.548%
26.0	175.929	8.457	460.141	1.110%	75.944%
27.0	160.179	7.975	468.115	1.047%	77.260%
28.0	146.461	7.540	475.656	.990%	78.505%
29.0	134.149	7.132	482.788	.936%	79.682%
30.0	122.801	6.733	489.521	.884%	80.793%
31.0	112.669	6.363	495.884	.835%	81.843%
32.0	103.106	5.992	501.876	.786%	82.832%
33.0	94.922	5.669	507.545	.744%	83.768%
34.0	87.750	5.381	512.926	.706%	84.656%
35.0	81.267	5.112	518.038	.671%	85.500%
36.0	74.848	4.824	522.862	.633%	86.296%
37.0	70.052	4.623	527.485	.607%	87.059%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	65.264	4.406	531.892	.578%	87.786%
39.0	60.623	4.184	536.075	.549%	88.477%
40.0	56.897	4.011	540.086	.526%	89.139%
41.0	53.149	3.824	543.91	.502%	89.770%
42.0	49.359	3.622	547.532	.475%	90.367%
43.0	46.266	3.460	550.992	.454%	90.939%
44.0	43.418	3.307	554.299	.434%	91.484%
45.0	40.549	3.144	557.443	.413%	92.003%
46.0	38.243	3.017	560.46	.396%	92.501%
47.0	35.670	2.861	563.321	.375%	92.973%
48.0	33.455	2.726	566.047	.358%	93.423%
49.0	31.184	2.581	568.628	.339%	93.849%
50.0	28.835	2.422	571.05	.318%	94.249%
51.0	26.677	2.273	573.324	.298%	94.624%
52.0	24.511	2.118	575.442	.278%	94.974%
53.0	22.198	1.944	577.386	.255%	95.295%
54.0	20.053	1.779	579.165	.233%	95.588%
55.0	18.211	1.636	580.801	.215%	95.858%
56.0	16.291	1.481	582.282	.194%	96.103%
57.0	14.681	1.350	583.632	.177%	96.326%
58.0	13.268	1.234	584.866	.162%	96.529%
59.0	12.059	1.133	586	.149%	96.716%
60.0	11.011	1.046	587.045	.137%	96.889%
61.0	10.118	0.970	588.016	.127%	97.049%
62.0	9.380	0.908	588.924	.119%	97.199%
63.0	8.733	0.853	589.777	.112%	97.340%
64.0	8.163	0.805	590.582	.106%	97.473%
65.0	7.685	0.764	591.346	.100%	97.599%
66.0	7.355	0.737	592.082	.097%	97.720%
67.0	7.080	0.715	592.797	.094%	97.838%
68.0	6.884	0.700	593.497	.092%	97.954%
69.0	6.694	0.685	594.182	.090%	98.067%
70.0	6.539	0.674	594.856	.088%	98.178%
71.0	6.398	0.663	595.519	.087%	98.288%
72.0	6.265	0.653	596.173	.086%	98.395%
73.0	6.166	0.647	596.82	.085%	98.502%
74.0	6.075	0.640	597.46	.084%	98.608%
75.0	5.984	0.634	598.094	.083%	98.712%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.927	0.631	598.724	.083%	98.817%
77.0	5.871	0.627	599.352	.082%	98.920%
78.0	5.822	0.624	599.976	.082%	99.023%
79.0	5.815	0.626	600.602	.082%	99.126%
80.0	5.794	0.626	601.228	.082%	99.230%
81.0	5.815	0.630	601.858	.083%	99.334%
82.0	5.752	0.625	602.482	.082%	99.437%
83.0	5.667	0.617	603.099	.081%	99.539%
84.0	5.498	0.600	603.699	.079%	99.638%
85.0	5.288	0.578	604.276	.076%	99.733%
86.0	4.922	0.538	604.815	.071%	99.822%
87.0	3.164	0.346	605.161	.045%	99.879%
88.0	2.735	0.300	605.461	.039%	99.928%
89.0	2.658	0.291	605.752	.038%	99.977%
90.0	2.595	0.142	605.895	.019%	100.000%

Zonal flux distribution table

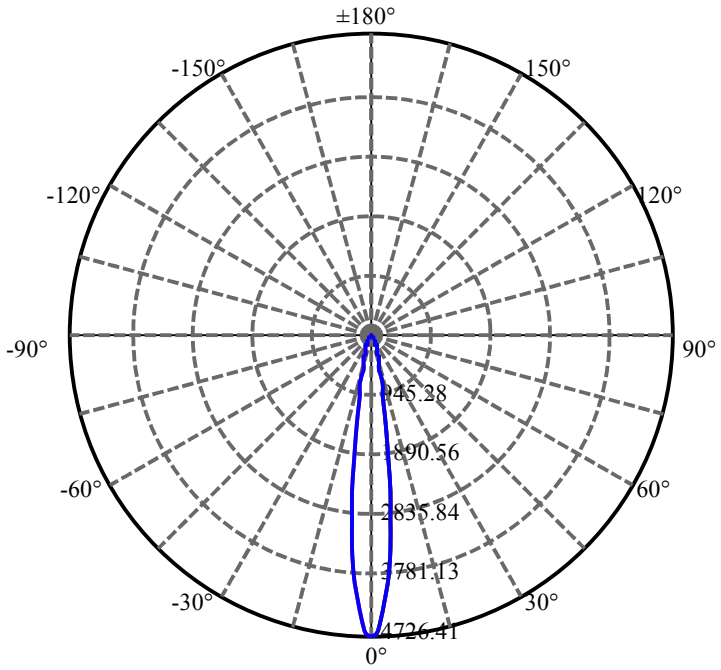
ZONAL LUMEN SUMMARY

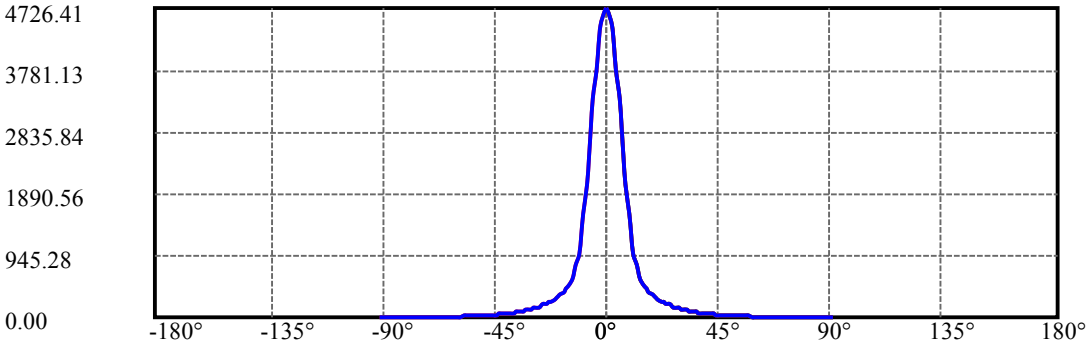
Zone	Lumens	%Lamp	%Fixt
0-30	489.52	64.24%	80.79%
0-40	540.09	70.88%	89.14%
0-60	587.05	77.04%	96.89%
0-90	605.75	79.50%	99.98%
0-120	605.75	79.50%	99.98%
0-180	605.89	79.51%	100.00%
60-90	19.75	2.59%	3.26%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.29	484.72	63.61%	80.00%

ZONAL LUMEN SUMMARY

0-10	260.20
10-20	142.88
20-30	86.44
30-40	50.57
40-50	30.96
50-60	15.99
60-70	7.81
70-80	6.37
80-90	4.52
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):

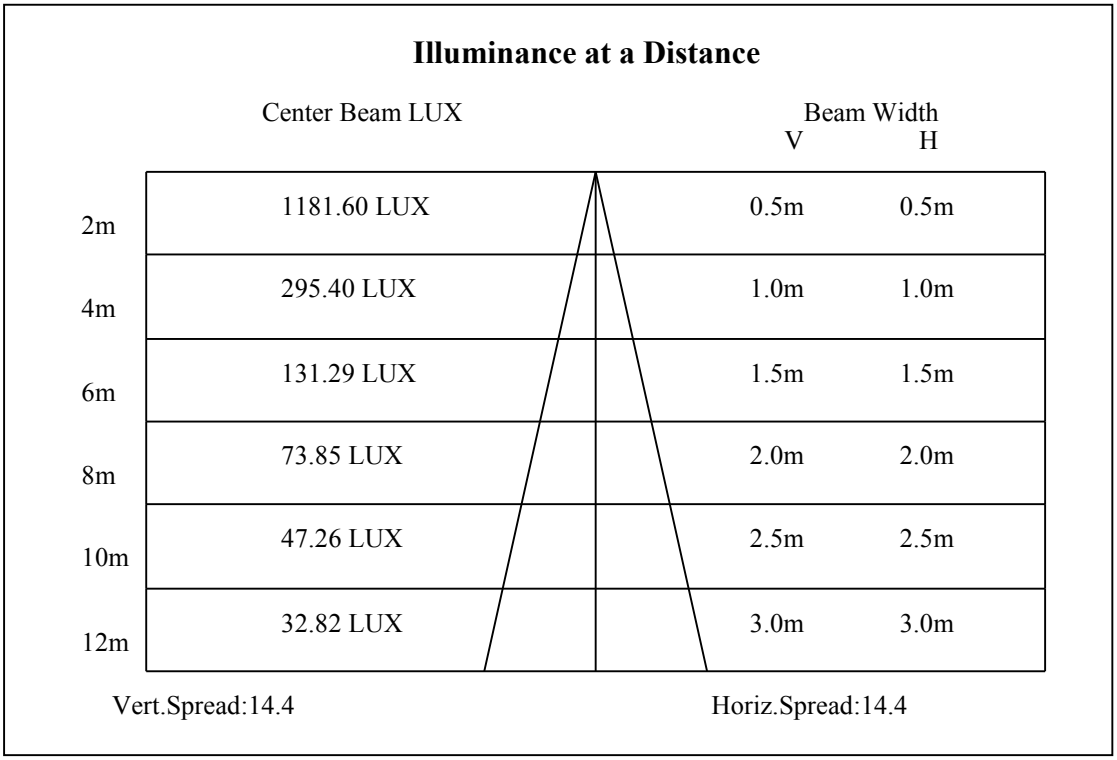
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:15.2 Right:15.2
:C90/270Left:15.2 Right:15.2

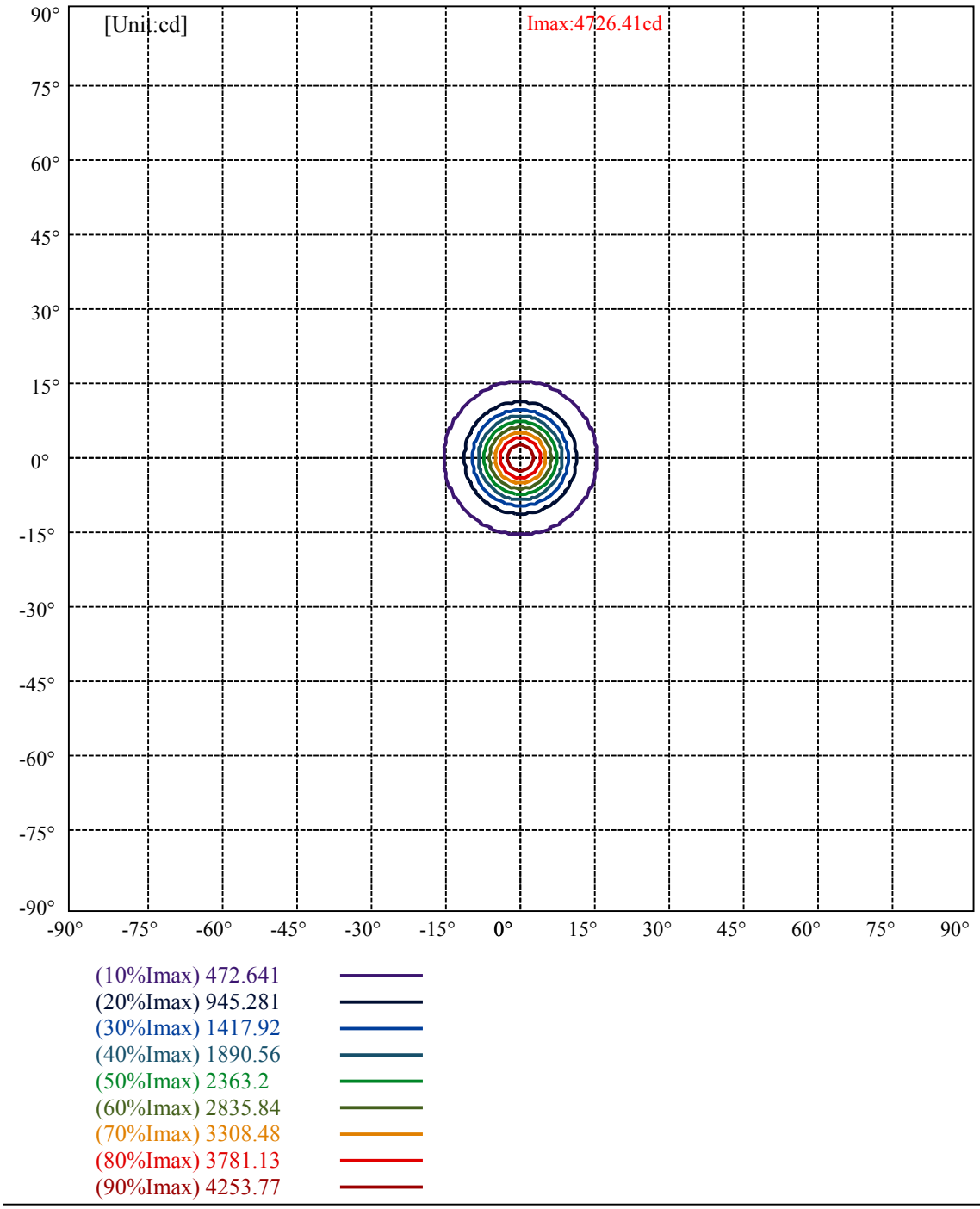
Beam Angle(50%Imax):C0/180Left:7.2 Right:7.2
:C90/270Left:7.2 Right:7.2

Lux distance Curve



Equipment: GMS1980 Date: 2018/9/26 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.50

ISO-Intensity(V-H)

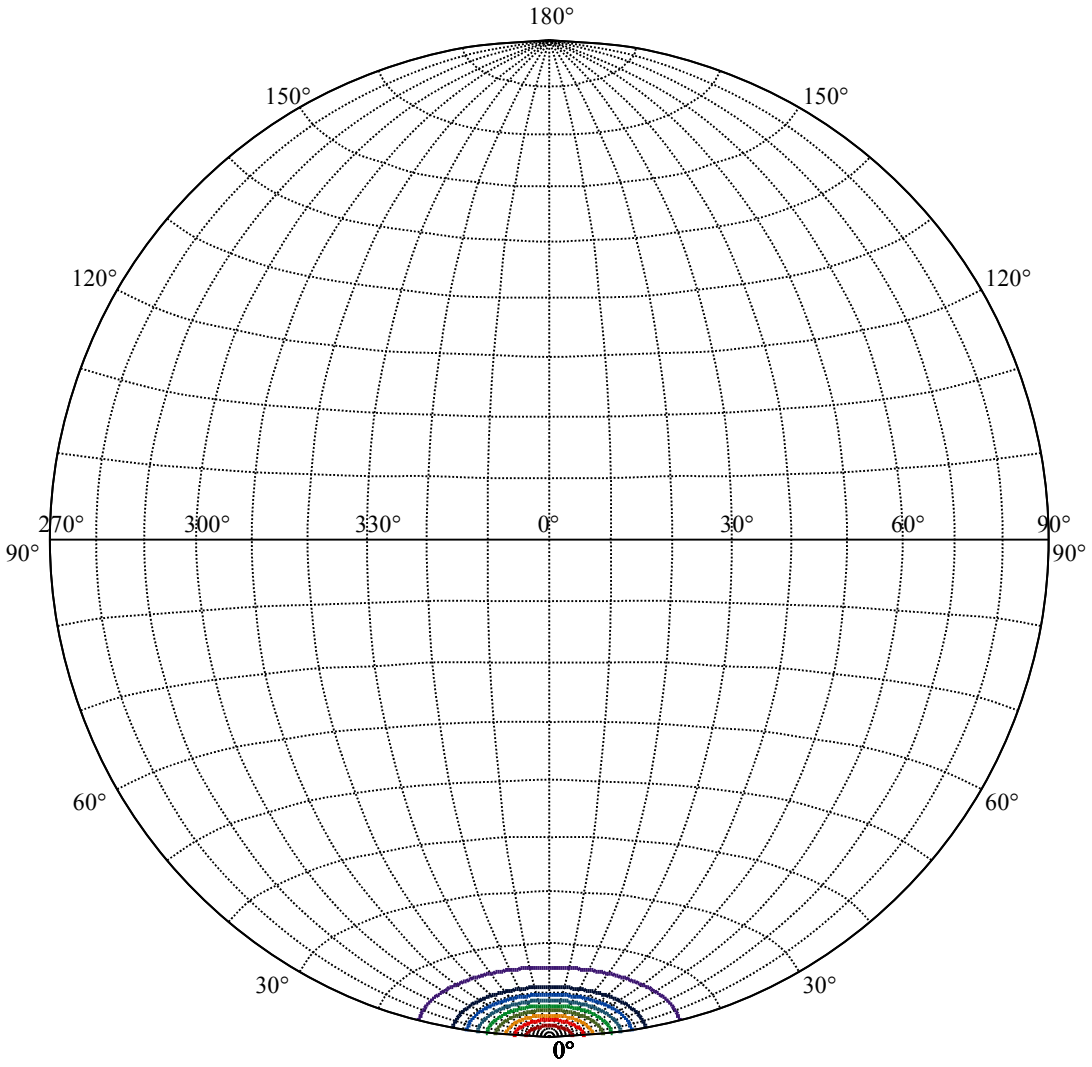


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/26
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:4726.41

(10%Imax) 472.641
(20%Imax) 945.281
(30%Imax) 1417.92
(40%Imax) 1890.56
(50%Imax) 2363.2
(60%Imax) 2835.84
(70%Imax) 3308.48
(80%Imax) 3781.13
(90%Imax) 4253.77

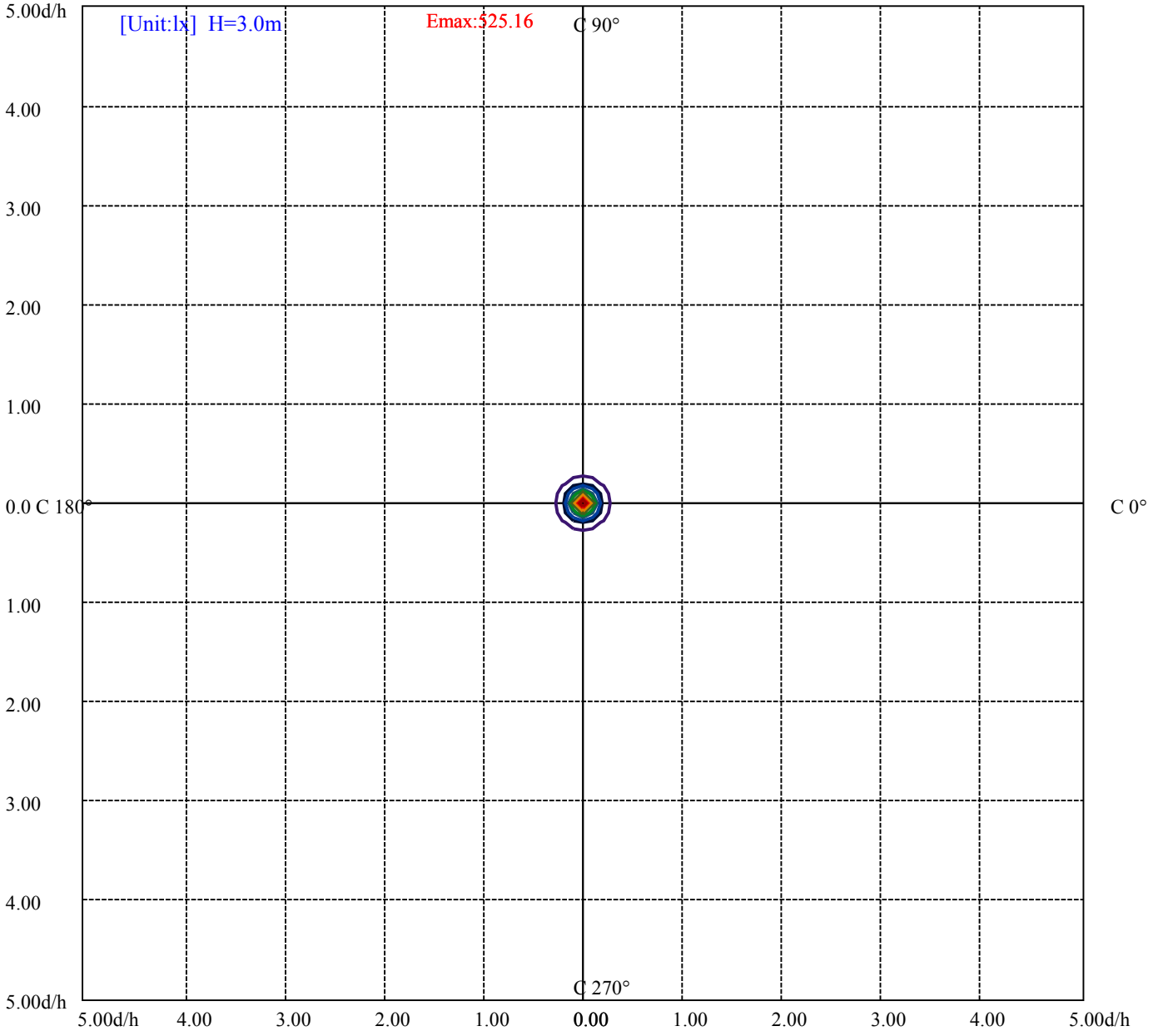
Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/26
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

Nata 1426-N

ISO illuminance diagram



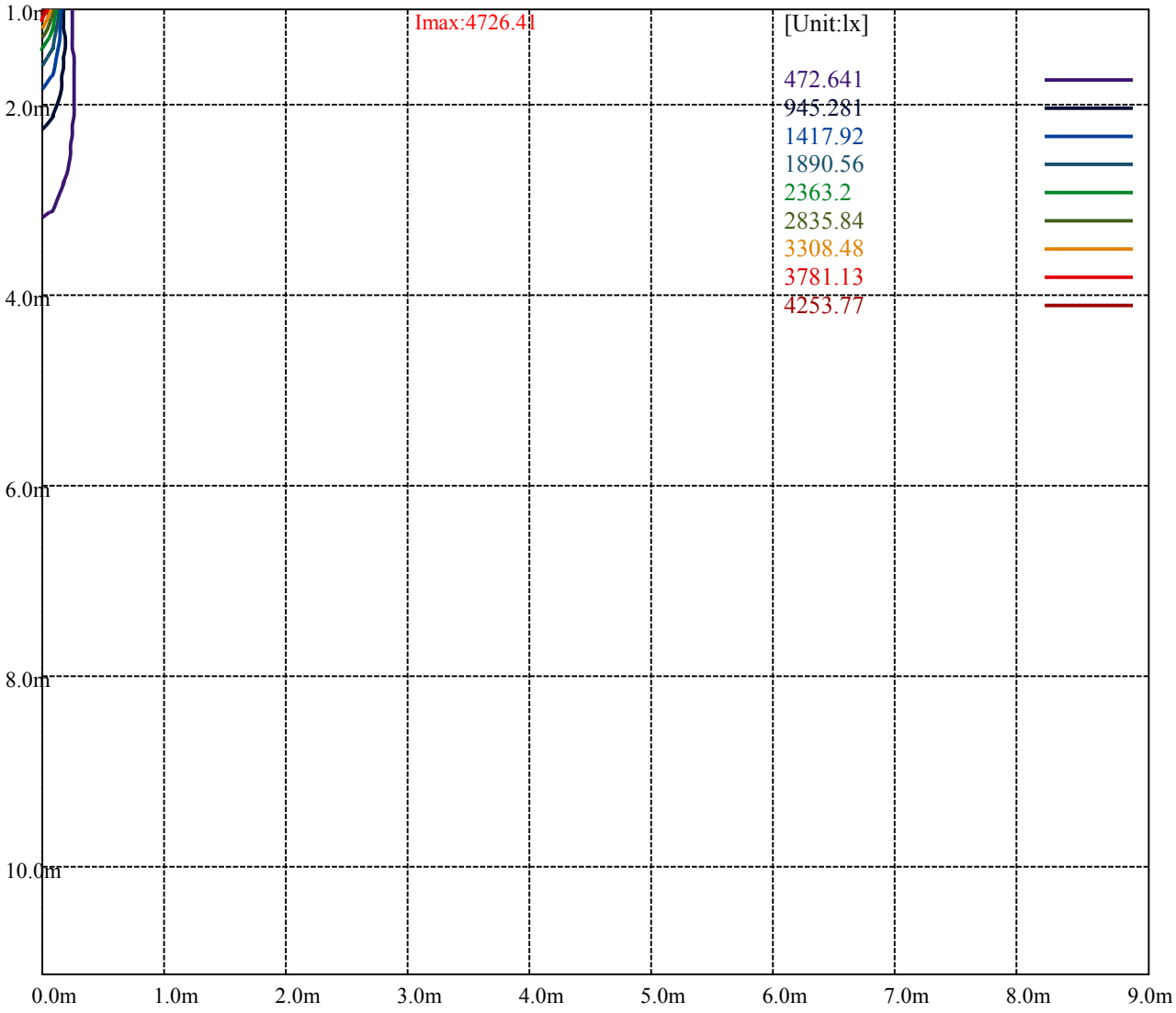
(10%Emax) 52.51556
(20%Emax) 105.031
(30%Emax) 157.5467
(40%Emax) 210.0622
(50%Emax) 262.5778
(60%Emax) 315.0934
(70%Emax) 367.6089
(80%Emax) 420.1245
(90%Emax) 472.64

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/26
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/26
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

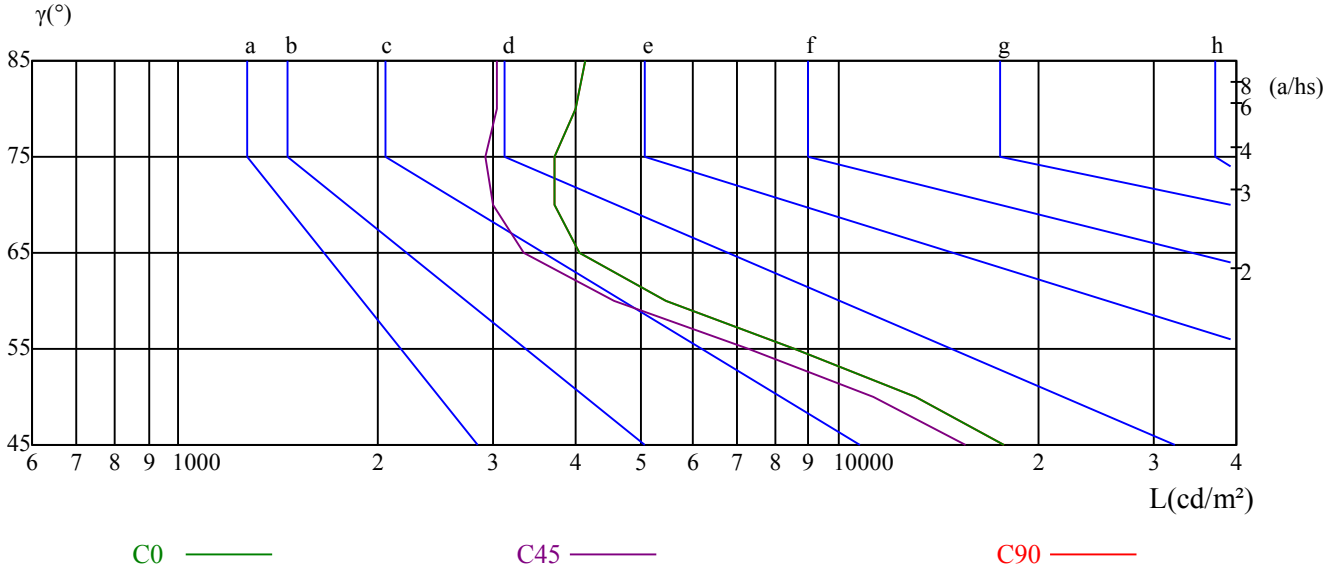
γ	45	50	55	60	65	70	75	80	85
C0	17809	13072	8598	5467	4056	3713	3707	3983	4117
C45	15594	11281	7306	4569	3328	2985	2911	3041	3039
C90	17809	13072	8598	5467	4056	3713	3707	3983	4117

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
8594	8594	8594	10926	10926	10926	28671	28671	28671

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

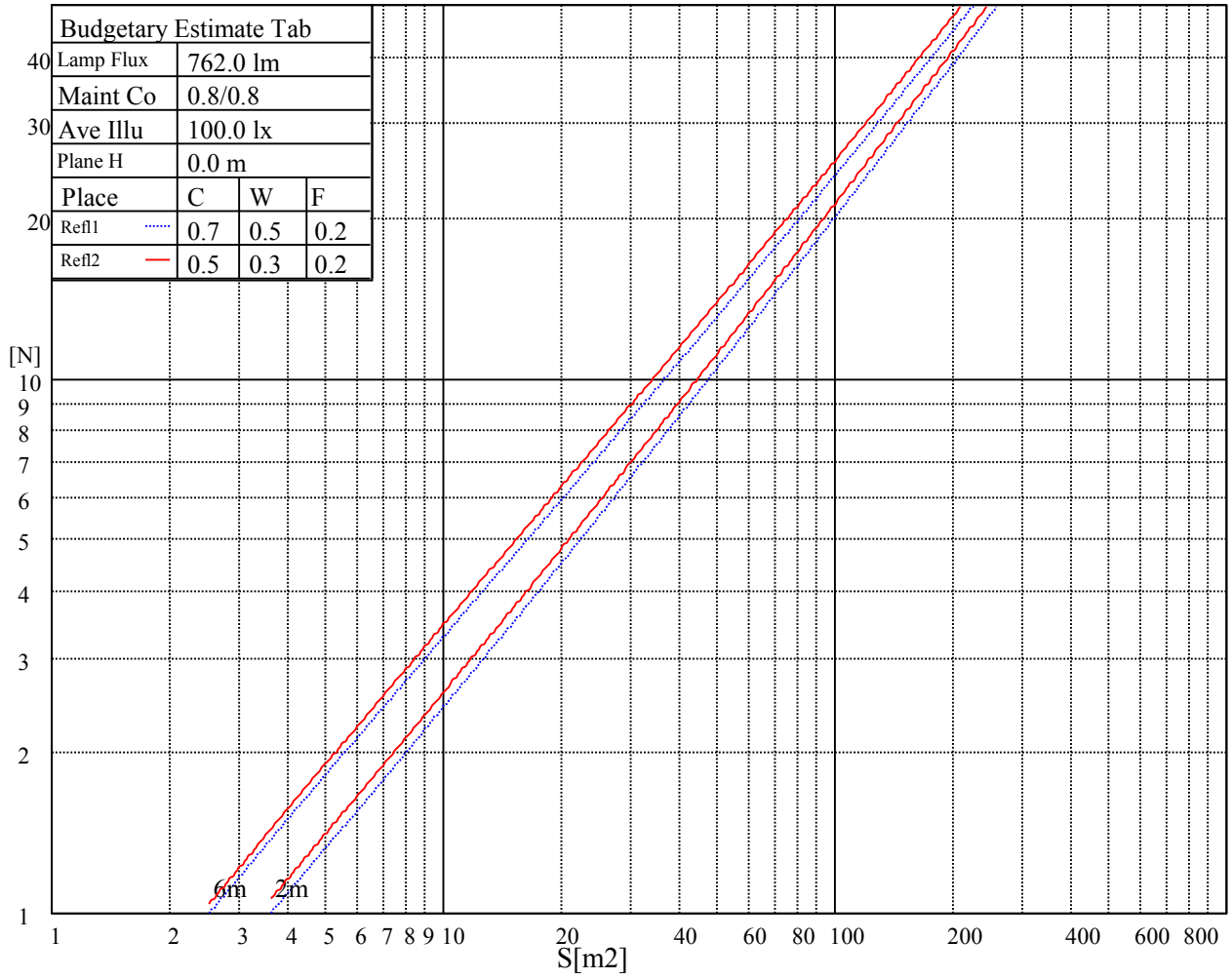
Luminance Limitting Curve



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	14.93	15.96	15.29	16.27	16.59	15.14	16.17	15.51	16.49	16.80
	3H	15.65	16.56	16.03	16.90	17.26	15.75	16.66	16.13	16.99	17.36
	4H	16.11	16.96	16.52	17.31	17.70	16.15	17.00	16.56	17.35	17.74
	6H	16.69	17.47	17.11	17.84	18.24	16.71	17.49	17.13	17.86	18.26
	8H	17.00	17.73	17.43	18.12	18.53	17.04	17.76	17.47	18.16	18.57
	12H	17.49	18.19	17.92	18.57	19.00	17.59	18.29	18.03	18.67	19.10
4H	2H	14.94	15.79	15.35	16.14	16.53	15.14	15.99	15.55	16.34	16.73
	3H	15.90	16.60	16.32	17.00	17.41	15.97	16.67	16.39	17.07	17.48
	4H	16.53	17.15	16.97	17.57	18.02	16.54	17.17	16.98	17.59	18.04
	6H	17.16	17.70	17.63	18.15	18.62	17.16	17.69	17.63	18.14	18.62
	8H	17.60	18.10	18.08	18.55	19.02	17.62	18.12	18.10	18.57	19.05
	12H	18.18	18.61	18.67	19.10	19.58	18.28	18.71	18.77	19.20	19.68
8H	4H	16.70	17.20	17.18	17.65	18.13	16.72	17.22	17.19	17.67	18.14
	6H	17.56	17.96	18.07	18.47	18.95	17.57	17.97	18.07	18.47	18.95
	8H	18.15	18.50	18.68	19.02	19.52	18.18	18.54	18.71	19.06	19.55
	12H	18.91	19.22	19.43	19.72	20.30	19.02	19.33	19.54	19.82	20.40
12H	4H	16.73	17.16	17.22	17.65	18.13	16.74	17.17	17.23	17.66	18.14
	6H	17.99	18.02	18.20	18.49	19.04	17.99	18.02	18.20	18.49	19.04
	8H	18.33	18.64	18.85	19.14	19.72	18.36	18.67	18.88	19.17	19.75

Variation with the observer position at spacings:		
S = 1.0H	1.2/-1.7	1.2/-1.7
S = 1.5H	2.2/-2.3	2.2/-2.3
S = 2.0H	3.7/-2.0	3.7/-2.0
Standard tables:	BK3	BK3
Uncorrected UGR	-0.7	-0.7

Budgetary Estimate Table

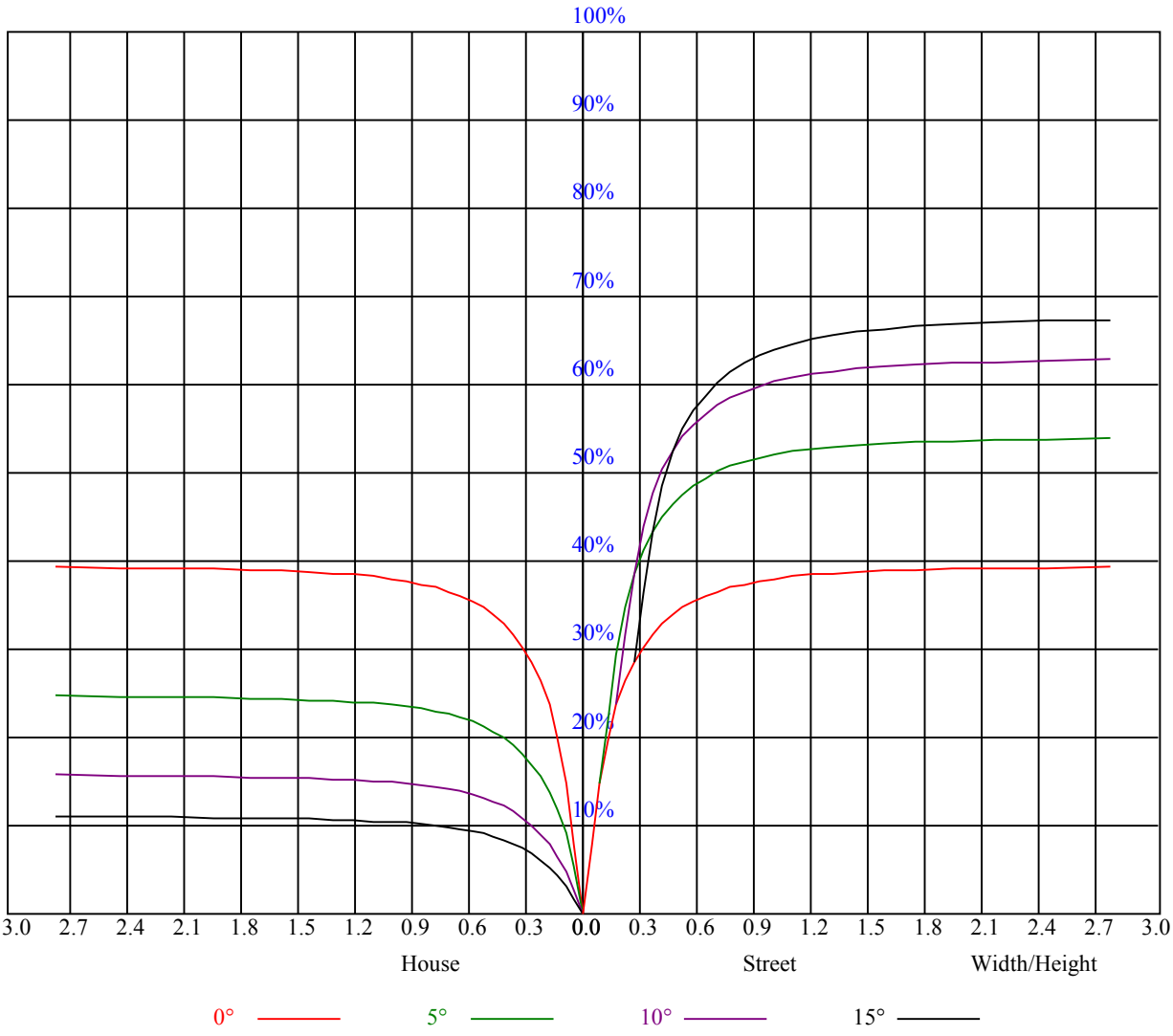


Equipment: GMS1980 Date: 2018/9/26 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.50

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	0.95	0.95	0.95	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.81	0.81	0.81	0.80
1	0.89	0.87	0.85	0.87	0.85	0.84	0.84	0.82	0.81	0.81	0.80	0.79	0.78	0.77	0.77	0.75
2	0.84	0.81	0.78	0.82	0.80	0.78	0.80	0.78	0.76	0.77	0.76	0.74	0.75	0.74	0.73	0.71
3	0.79	0.76	0.73	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.70	0.73	0.71	0.69	0.68
4	0.76	0.72	0.69	0.75	0.71	0.69	0.73	0.70	0.68	0.72	0.69	0.67	0.70	0.68	0.67	0.65
5	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.67	0.65	0.69	0.67	0.65	0.68	0.66	0.64	0.63
6	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.66	0.64	0.62	0.61
7	0.67	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.59
8	0.65	0.61	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.63	0.60	0.58	0.63	0.60	0.58	0.57
9	0.63	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.61	0.58	0.56	0.56
10	0.61	0.58	0.56	0.61	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.59	0.57	0.55	0.54

Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/26
Humidity(%): 60.0%

Operator: NT07
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	4717.69	4512.38	4135.50	3769.31	3356.44	2824.31	2398.50	1995.75	1591.31
45.0	4790.25	4542.19	4237.88	3827.81	3418.31	2934.56	2447.44	2035.69	1661.06
90.0	4707.00	4466.25	4168.69	3762.56	3289.50	2854.69	2418.19	1892.81	1524.38
135.0	4690.69	4690.69	4527.00	4266.00	3927.94	3439.69	3003.19	2556.56	2073.38
180.0	4717.69	4788.56	4716.56	4506.75	4208.63	3807.00	3397.50	2894.63	2380.50
225.0	4790.25	4878.56	4812.19	4583.25	4240.13	3861.56	3403.13	2911.50	2461.50
270.0	4707.00	4803.75	4744.13	4560.75	4288.50	3893.63	3443.06	3020.06	2634.75
315.0	4690.69	4570.31	4316.06	3968.44	3597.19	3147.19	2736.00	2265.19	1820.25
360.0	4717.69	4512.38	4135.50	3769.31	3356.44	2824.31	2398.50	1995.75	1591.31

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1254.38	1015.88	809.44	680.06	579.38	509.06	459.00	412.88	375.75
45.0	1259.44	1005.75	808.31	658.13	563.63	501.75	447.19	402.75	368.44
90.0	1103.96	931.44	738.34	621.39	541.18	466.26	418.84	380.42	342.79
135.0	1638.00	1301.06	995.06	792.00	637.31	533.25	464.06	408.94	365.06
180.0	1955.25	1519.31	1056.43	910.29	734.23	597.60	505.91	447.30	400.44
225.0	2035.69	1557.56	1090.52	963.00	746.16	605.48	521.49	452.08	405.39
270.0	2056.50	1671.19	1375.31	1025.44	799.88	679.50	555.75	484.31	443.81
315.0	1471.50	1113.02	896.46	742.61	637.82	541.41	485.44	438.41	392.40
360.0	1254.38	1015.88	809.44	680.06	579.38	509.06	459.00	412.88	375.75

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	345.94	320.06	289.13	286.31	245.98	222.75	205.09	189.00	171.90
45.0	334.69	307.13	285.75	252.45	232.03	213.64	192.04	176.29	161.83
90.0	310.39	285.13	259.20	235.86	216.68	197.38	181.52	164.81	149.79
135.0	333.00	304.88	288.56	251.16	231.58	210.04	194.85	179.27	168.92
180.0	355.78	327.15	301.73	273.88	253.97	236.14	217.97	200.87	186.47
225.0	365.57	330.53	304.54	279.17	256.22	237.32	220.05	200.93	186.69
270.0	396.00	363.94	334.69	301.50	286.31	254.64	230.85	213.24	197.10
315.0	360.96	333.90	301.78	280.35	260.10	236.03	220.95	203.01	184.73
360.0	345.94	320.06	289.13	286.31	245.98	222.75	205.09	189.00	171.90

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	155.36	142.31	129.09	118.86	108.34	99.11	91.91	84.49	77.63
45.0	144.51	132.13	121.50	110.93	100.86	93.43	85.89	79.65	74.70
90.0	137.03	123.92	112.56	103.73	95.40	86.68	80.49	74.98	69.53
135.0	151.65	139.56	129.04	115.03	105.24	97.93	88.48	82.46	76.73
180.0	171.45	157.89	145.52	132.81	122.79	112.05	102.94	95.46	89.21
225.0	172.74	157.44	145.69	134.66	124.65	113.57	105.64	98.04	90.79
270.0	177.53	163.13	150.41	136.91	125.16	115.43	104.51	95.23	87.75
315.0	171.17	155.31	139.39	129.49	118.91	106.65	99.51	91.69	83.81
360.0	155.36	142.31	129.09	118.86	108.34	99.11	91.91	84.49	77.63

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	72.23	67.56	62.78	57.83	54.11	50.46	46.97	44.33	41.74
45.0	69.30	65.59	61.54	57.49	54.34	51.19	47.87	45.62	43.26
90.0	64.80	61.03	57.15	53.55	50.18	46.74	44.10	41.34	38.93
135.0	69.75	64.80	60.41	55.86	52.37	48.54	44.49	41.68	39.26
180.0	81.62	76.44	71.49	66.15	62.21	58.50	54.00	50.34	47.14
225.0	84.09	78.92	73.69	68.85	65.25	61.26	57.15	53.55	50.12
270.0	80.44	75.09	69.19	64.58	60.98	57.09	52.54	49.22	46.18
315.0	76.56	70.99	65.87	60.69	55.74	51.41	47.76	44.04	40.73
360.0	72.23	67.56	62.78	57.83	54.11	50.46	46.97	44.33	41.74

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	39.26	37.13	34.48	32.29	29.76	27.11	24.86	22.61	19.97
45.0	40.50	38.48	36.45	34.26	31.44	28.91	26.49	23.74	21.04
90.0	36.90	34.99	32.57	30.71	28.80	26.27	24.24	22.16	19.86
135.0	35.94	33.69	31.73	29.64	27.62	26.04	24.19	22.50	20.70
180.0	43.93	41.18	38.42	36.17	34.31	32.40	30.49	28.46	26.27
225.0	46.97	44.27	40.95	38.53	36.06	33.30	31.11	28.80	26.33
270.0	42.58	40.11	37.52	34.99	32.40	30.26	27.73	25.54	23.29
315.0	38.31	36.11	33.24	31.05	29.08	26.38	24.30	22.28	20.14
360.0	39.26	37.13	34.48	32.29	29.76	27.11	24.86	22.61	19.97

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	18.00	16.20	14.12	12.71	11.53	10.52	9.51	8.78	8.10
45.0	18.90	16.59	14.68	13.22	11.93	10.97	10.07	9.34	8.78
90.0	17.78	16.03	14.18	12.88	11.70	10.69	10.01	9.28	8.66
135.0	18.90	17.38	15.69	14.12	12.94	11.87	10.80	10.01	9.34
180.0	23.68	21.88	19.86	17.66	15.64	13.95	12.54	11.31	10.41
225.0	23.96	21.99	19.97	18.34	16.65	15.02	13.73	12.43	11.36
270.0	21.15	19.29	17.16	15.47	14.12	12.88	11.59	10.69	10.01
315.0	18.06	16.31	14.68	13.05	11.64	10.58	9.84	9.11	8.38
360.0	18.00	16.20	14.12	12.71	11.53	10.52	9.51	8.78	8.10

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.48	7.03	6.81	6.64	6.53	6.41	6.30	6.13	6.08
45.0	8.33	7.76	7.48	7.37	7.20	7.09	6.98	6.86	6.75
90.0	8.16	7.71	7.31	7.14	6.98	6.75	6.58	6.47	6.30
135.0	8.66	7.99	7.54	7.09	6.75	6.53	6.30	6.13	5.96
180.0	9.51	8.83	8.10	7.54	7.09	6.86	6.58	6.36	6.24
225.0	10.52	9.79	8.94	8.38	7.93	7.59	7.37	7.14	6.98
270.0	9.34	8.78	8.33	7.88	7.48	7.31	7.09	6.92	6.69
315.0	7.88	7.43	6.98	6.81	6.69	6.53	6.36	6.30	6.19
360.0	7.48	7.03	6.81	6.64	6.53	6.41	6.30	6.13	6.08

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.91	5.85	5.79	5.79	5.85	5.91	5.96	6.13	6.19
45.0	6.69	6.64	6.58	6.58	6.58	6.58	6.53	6.58	6.64
90.0	6.19	6.08	5.96	5.91	5.85	5.74	5.68	5.68	5.63
135.0	5.79	5.68	5.57	5.34	5.29	5.18	5.01	4.95	4.84
180.0	6.02	5.91	5.85	5.74	5.63	5.51	5.46	5.34	5.34
225.0	6.81	6.69	6.58	6.47	6.41	6.36	6.30	6.24	6.13
270.0	6.58	6.47	6.36	6.19	6.08	6.02	6.02	5.96	5.91
315.0	6.13	6.02	5.91	5.85	5.74	5.68	5.63	5.63	5.68
360.0	5.91	5.85	5.79	5.79	5.85	5.91	5.96	6.13	6.19

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.30	6.30	6.24	6.08	5.85	5.63	2.93	2.64	2.59
45.0	6.53	6.30	6.08	5.79	5.68	5.63	4.33	2.59	2.53
90.0	5.63	5.51	5.34	5.23	5.01	4.73	2.70	2.59	2.53
135.0	4.78	4.95	5.01	4.89	4.78	4.39	3.26	2.76	2.64
180.0	5.29	5.23	5.18	5.06	4.95	4.61	3.04	2.87	2.81
225.0	6.13	6.02	5.96	5.79	5.63	5.01	3.04	2.93	2.81
270.0	6.02	5.85	5.74	5.40	4.84	4.39	3.21	2.81	2.70
315.0	5.85	5.85	5.79	5.74	5.57	5.01	2.81	2.70	2.64
360.0	6.30	6.30	6.24	6.08	5.85	5.63	2.93	2.64	2.59

Intensity data(cd)

C/γ(°)	90.0
0.0	2.53
45.0	2.53
90.0	2.53
135.0	2.53
180.0	2.70
225.0	2.70
270.0	2.64
315.0	2.59
360.0	2.53