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: 1406-N
Luminaire: 92.70.064.00

Report No: NATA0100	Voltage(V): 34.7000
Test No: GC2019011111	Current(A): 0.3100
LampCAT: SEOUL SAWx10 LES9.8	Power (W): 10.7570
Lamp flux(lm): 1526.0	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): 1322.31
Efficiency(%): 86.65%
Lumens(lm)/Power(W): 122.96
Central intensity(cd): 1851.891
Maximum intensity(cd): 1851.891
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=39.1
[C90/270]Total=39.1
Field angle(10%Imax): [C0/180]Total=90.3
[C90/270]Total=90.3
Maximum s/h(1/2): C0_180=0.62 C90_270=0.62
Maximum s/h(1/4): C0_180=0.68 C90_270=0.68
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 86.68%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 95.223%

Equipment: GMS1980	Date: 2019/1/11	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	1851.891	0.443	0.443	.029%	.034%
1.0	1849.008	3.539	3.982	.232%	.301%
2.0	1838.672	7.037	11.019	.461%	.833%
3.0	1819.758	10.444	21.463	.684%	1.623%
4.0	1795.992	13.739	35.201	.900%	2.662%
5.0	1765.828	16.877	52.078	1.106%	3.938%
6.0	1727.508	19.802	71.88	1.298%	5.436%
7.0	1684.406	22.511	94.391	1.475%	7.138%
8.0	1639.898	25.028	119.419	1.640%	9.031%
9.0	1584.914	27.189	146.608	1.782%	11.087%
10.0	1527.117	29.080	175.688	1.906%	13.286%
11.0	1471.852	30.797	206.485	2.018%	15.615%
12.0	1408.852	32.122	238.607	2.105%	18.045%
13.0	1342.477	33.117	271.723	2.170%	20.549%
14.0	1278.281	33.912	305.635	2.222%	23.114%
15.0	1205.902	34.226	339.861	2.243%	25.702%
16.0	1138.627	34.417	374.278	2.255%	28.305%
17.0	1082.046	34.692	408.971	2.273%	30.928%
18.0	1018.259	34.506	443.476	2.261%	33.538%
19.0	958.774	34.230	477.707	2.243%	36.127%
20.0	900.605	33.778	511.485	2.214%	38.681%
21.0	843.954	33.166	544.651	2.173%	41.189%
22.0	792.872	32.571	577.222	2.134%	43.653%
23.0	747.570	32.032	609.254	2.099%	46.075%
24.0	701.423	31.286	640.54	2.050%	48.441%
25.0	658.160	30.502	671.042	1.999%	50.748%
26.0	624.059	30.000	701.042	1.966%	53.016%
27.0	588.762	29.312	730.353	1.921%	55.233%
28.0	556.552	28.653	759.006	1.878%	57.400%
29.0	527.520	28.045	787.052	1.838%	59.521%
30.0	501.180	27.480	814.531	1.801%	61.599%
31.0	474.511	26.800	841.332	1.756%	63.626%
32.0	450.014	26.151	867.483	1.714%	65.603%
33.0	428.491	25.592	893.074	1.677%	67.539%
34.0	405.844	24.887	917.961	1.631%	69.421%
35.0	385.284	24.234	942.195	1.588%	71.254%
36.0	363.312	23.418	965.613	1.535%	73.025%
37.0	342.752	22.620	988.234	1.482%	74.735%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	321.863	21.730	1009.964	1.424%	76.379%
39.0	300.452	20.735	1030.699	1.359%	77.947%
40.0	281.658	19.854	1050.552	1.301%	79.448%
41.0	260.170	18.718	1069.27	1.227%	80.864%
42.0	240.954	17.681	1086.95	1.159%	82.201%
43.0	221.534	16.568	1103.519	1.086%	83.454%
44.0	203.491	15.501	1119.02	1.016%	84.626%
45.0	187.502	14.539	1133.559	.953%	85.726%
46.0	170.775	13.471	1147.031	.883%	86.744%
47.0	155.257	12.452	1159.482	.816%	87.686%
48.0	142.390	11.604	1171.086	.760%	88.564%
49.0	129.284	10.700	1181.786	.701%	89.373%
50.0	117.338	9.857	1191.643	.646%	90.118%
51.0	107.670	9.176	1200.819	.601%	90.812%
52.0	98.466	8.509	1209.328	.558%	91.456%
53.0	89.930	7.876	1217.204	.516%	92.051%
54.0	82.547	7.323	1224.527	.480%	92.605%
55.0	75.945	6.822	1231.349	.447%	93.121%
56.0	70.102	6.373	1237.722	.418%	93.603%
57.0	65.067	5.984	1243.706	.392%	94.055%
58.0	60.152	5.594	1249.3	.367%	94.479%
59.0	55.955	5.260	1254.56	.345%	94.876%
60.0	52.165	4.954	1259.514	.325%	95.251%
61.0	48.488	4.651	1264.165	.305%	95.603%
62.0	45.176	4.374	1268.539	.287%	95.933%
63.0	42.258	4.129	1272.668	.271%	96.246%
64.0	39.480	3.891	1276.559	.255%	96.540%
65.0	36.668	3.644	1280.203	.239%	96.816%
66.0	34.404	3.447	1283.65	.226%	97.076%
67.0	32.105	3.241	1286.891	.212%	97.321%
68.0	29.932	3.043	1289.934	.199%	97.551%
69.0	28.034	2.870	1292.804	.188%	97.768%
70.0	26.241	2.704	1295.508	.177%	97.973%
71.0	24.370	2.527	1298.035	.166%	98.164%
72.0	22.711	2.369	1300.403	.155%	98.343%
73.0	21.143	2.217	1302.621	.145%	98.511%
74.0	19.596	2.066	1304.686	.135%	98.667%
75.0	18.232	1.931	1306.618	.127%	98.813%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.840	1.792	1308.409	.117%	98.949%
77.0	15.497	1.656	1310.065	.109%	99.074%
78.0	14.302	1.534	1311.599	.101%	99.190%
79.0	13.148	1.415	1313.015	.093%	99.297%
80.0	11.974	1.293	1314.308	.085%	99.395%
81.0	10.990	1.190	1315.498	.078%	99.485%
82.0	10.005	1.087	1316.585	.071%	99.567%
83.0	9.063	0.986	1317.571	.065%	99.641%
84.0	8.255	0.900	1318.471	.059%	99.710%
85.0	7.538	0.823	1319.295	.054%	99.772%
86.0	6.926	0.758	1320.052	.050%	99.829%
87.0	6.279	0.688	1320.74	.045%	99.881%
88.0	5.885	0.645	1321.385	.042%	99.930%
89.0	5.674	0.622	1322.007	.041%	99.977%
90.0	5.555	0.305	1322.312	.020%	100.000%

Zonal flux distribution table

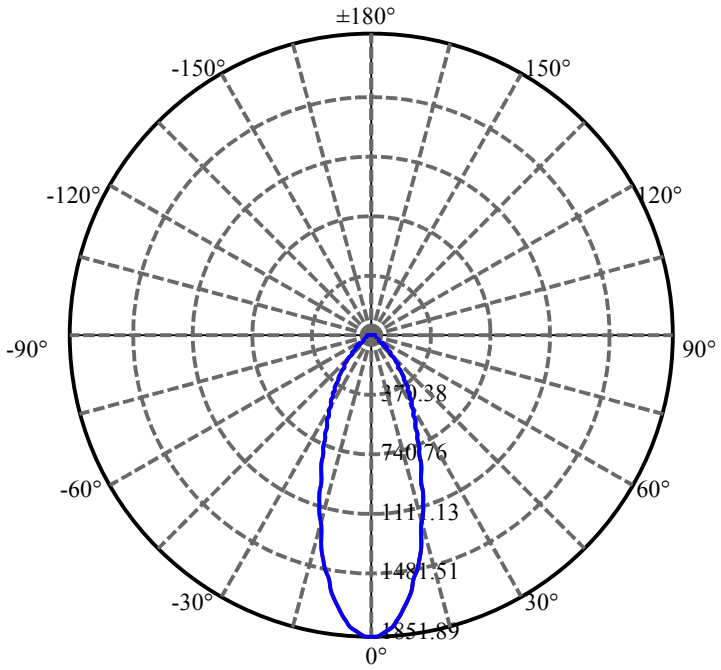
ZONAL LUMEN SUMMARY

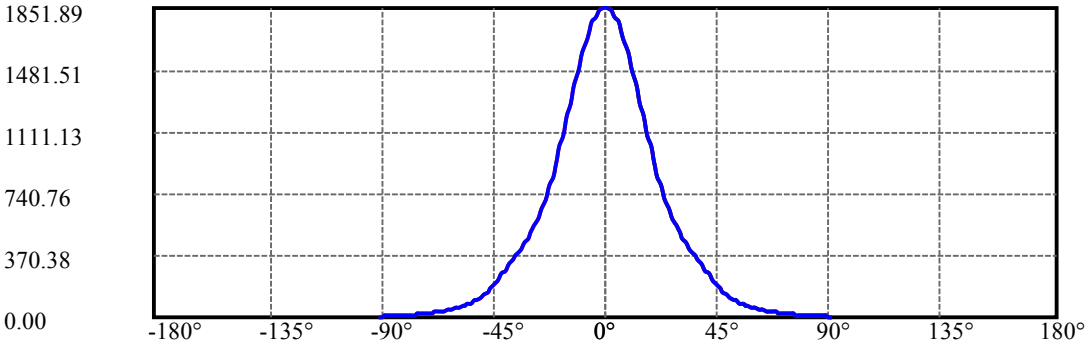
Zone	Lumens	%Lamp	%Fixt
0-30	814.53	53.38%	61.60%
0-40	1050.55	68.84%	79.45%
0-60	1259.51	82.54%	95.25%
0-90	1322.01	86.63%	99.98%
0-120	1322.01	86.63%	99.98%
0-180	1322.31	86.65%	100.00%
60-90	67.45	4.42%	5.10%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-40.39	1057.85	69.32%	80.00%

ZONAL LUMEN SUMMARY

0-10	175.69
10-20	335.80
20-30	303.05
30-40	236.02
40-50	141.09
50-60	67.87
60-70	35.99
70-80	18.80
80-90	7.70
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:45.1 Right:45.1
:C90/270Left:45.1 Right:45.1

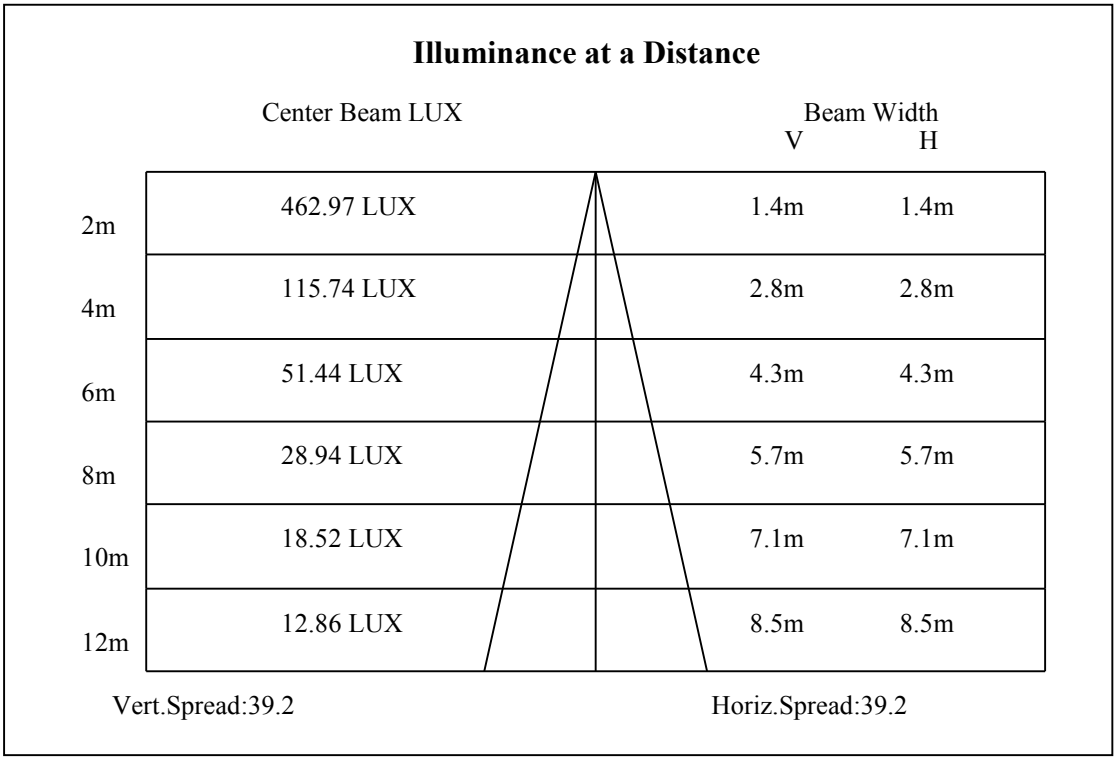
Beam Angle(50%Imax):C0/180Left:19.6 Right:19.6
:C90/270Left:19.6 Right:19.6

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/11
Humidity(%): 65.0%

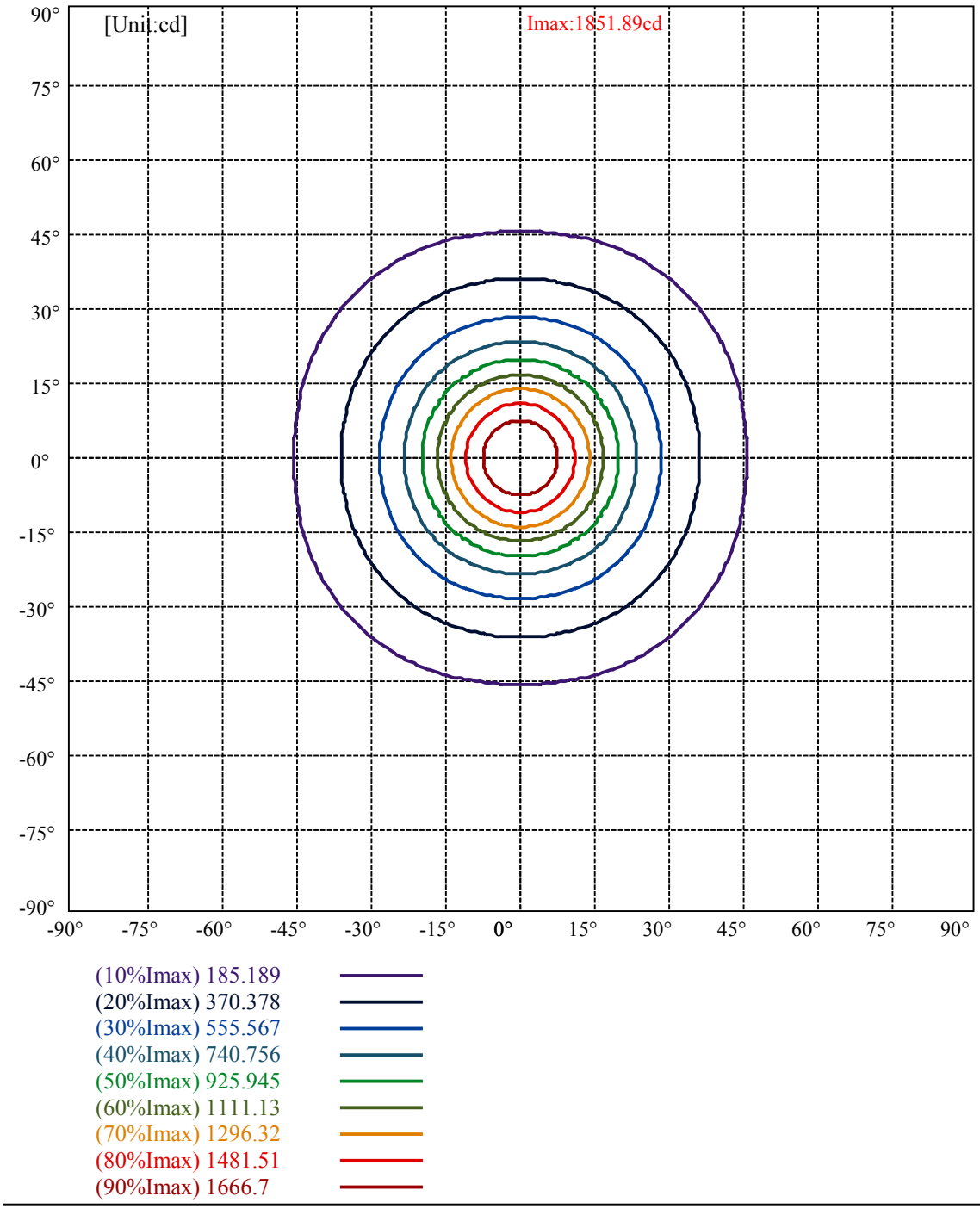
Operator: NT07
Distance(m): 7.50

Lux distance Curve



Equipment: GMS1980 Date: 2019/1/11 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

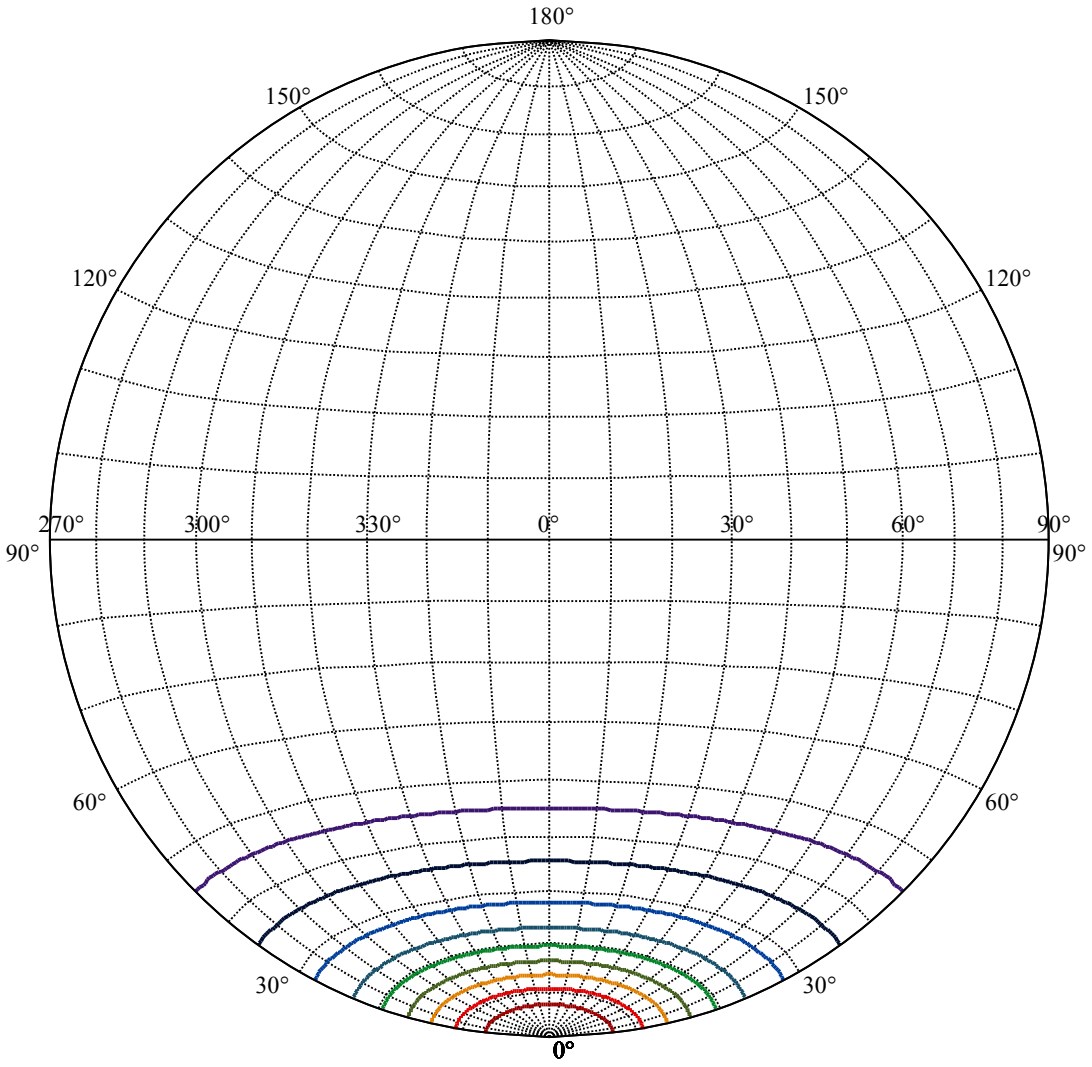


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/11
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:1851.89

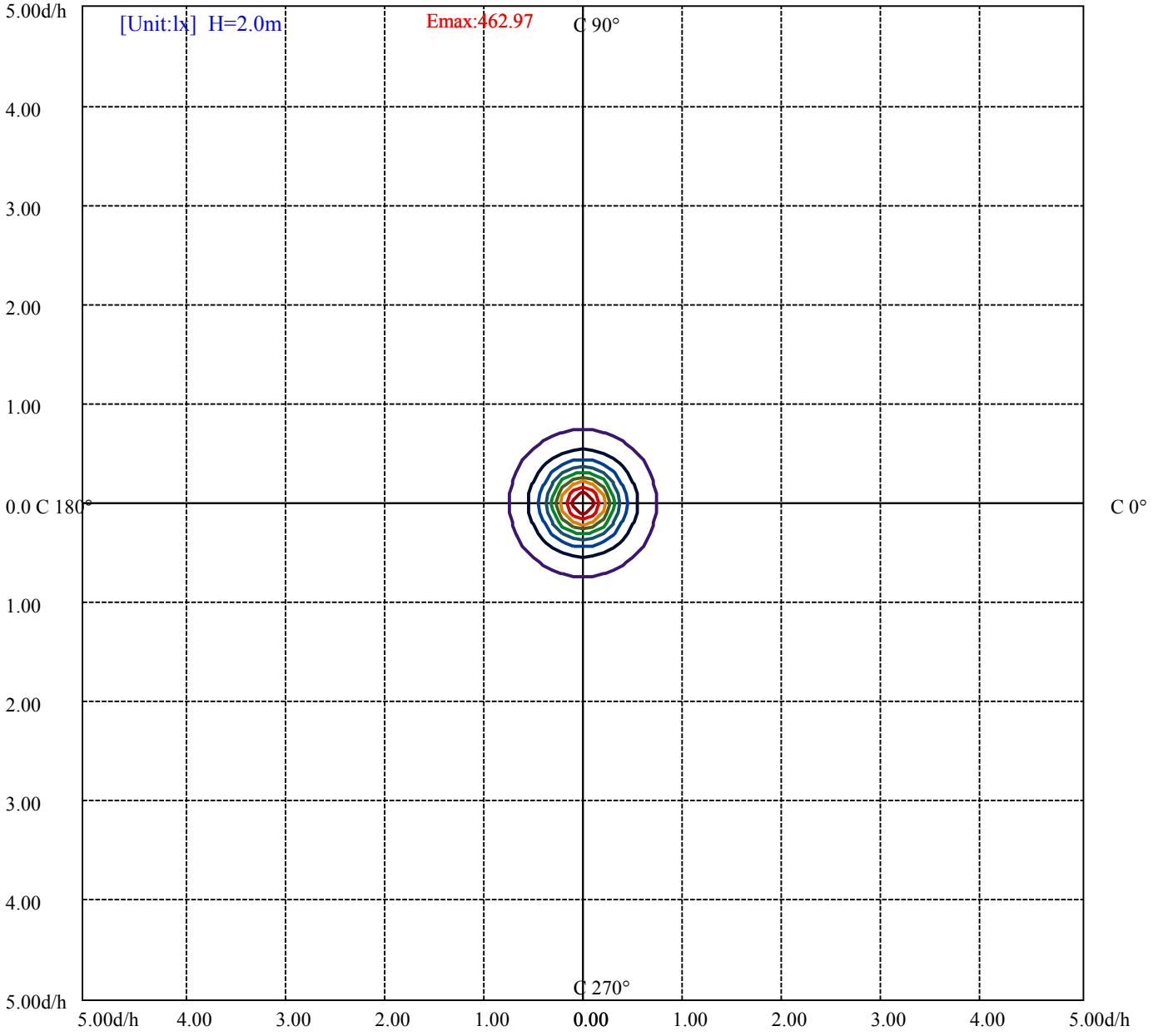
(10%Imax) 185.189
(20%Imax) 370.378
(30%Imax) 555.567
(40%Imax) 740.756
(50%Imax) 925.945
(60%Imax) 1111.13
(70%Imax) 1296.32
(80%Imax) 1481.51
(90%Imax) 1666.7

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/11
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO illuminance diagram



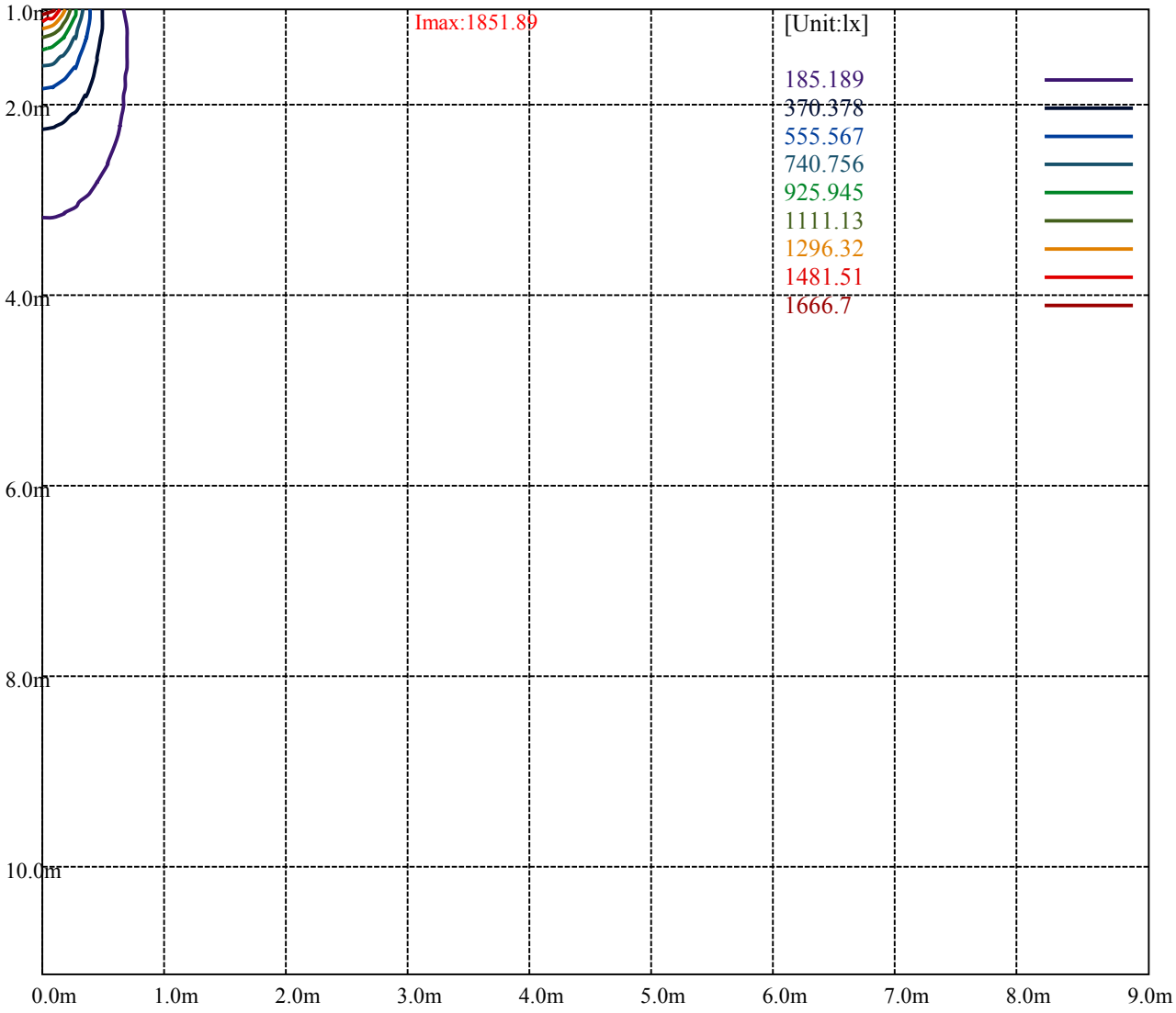
(10%Emax) 46.29725
(20%Emax) 92.5945
(30%Emax) 138.8918
(40%Emax) 185.189
(50%Emax) 231.4863
(60%Emax) 277.7825
(70%Emax) 324.08
(80%Emax) 370.3775
(90%Emax) 416.675

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/11
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/11
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

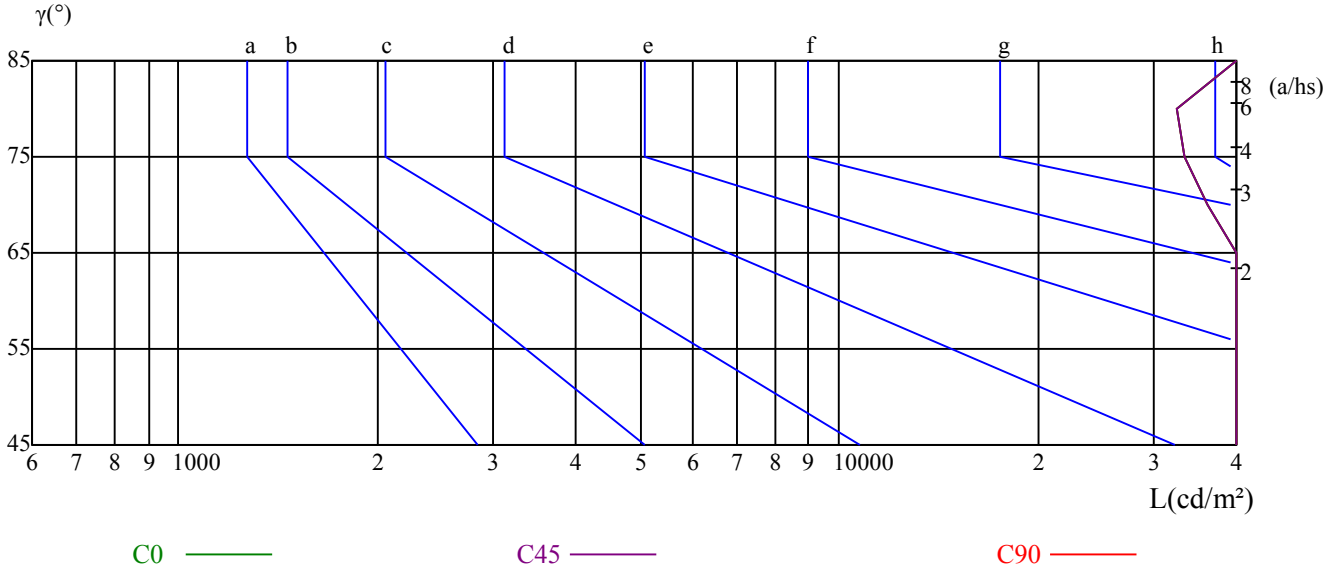
γ	45	50	55	60	65	70	75	80	85
C0	125316	86269	62573	49305	41004	36258	33291	32588	40871
C45	125316	86269	62573	49305	41004	36258	33291	32588	40871
C90	125316	86269	62573	49305	41004	36258	33291	32588	40871

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
41004	41004	41004	33291	33291	33291	40871	40871	40871

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



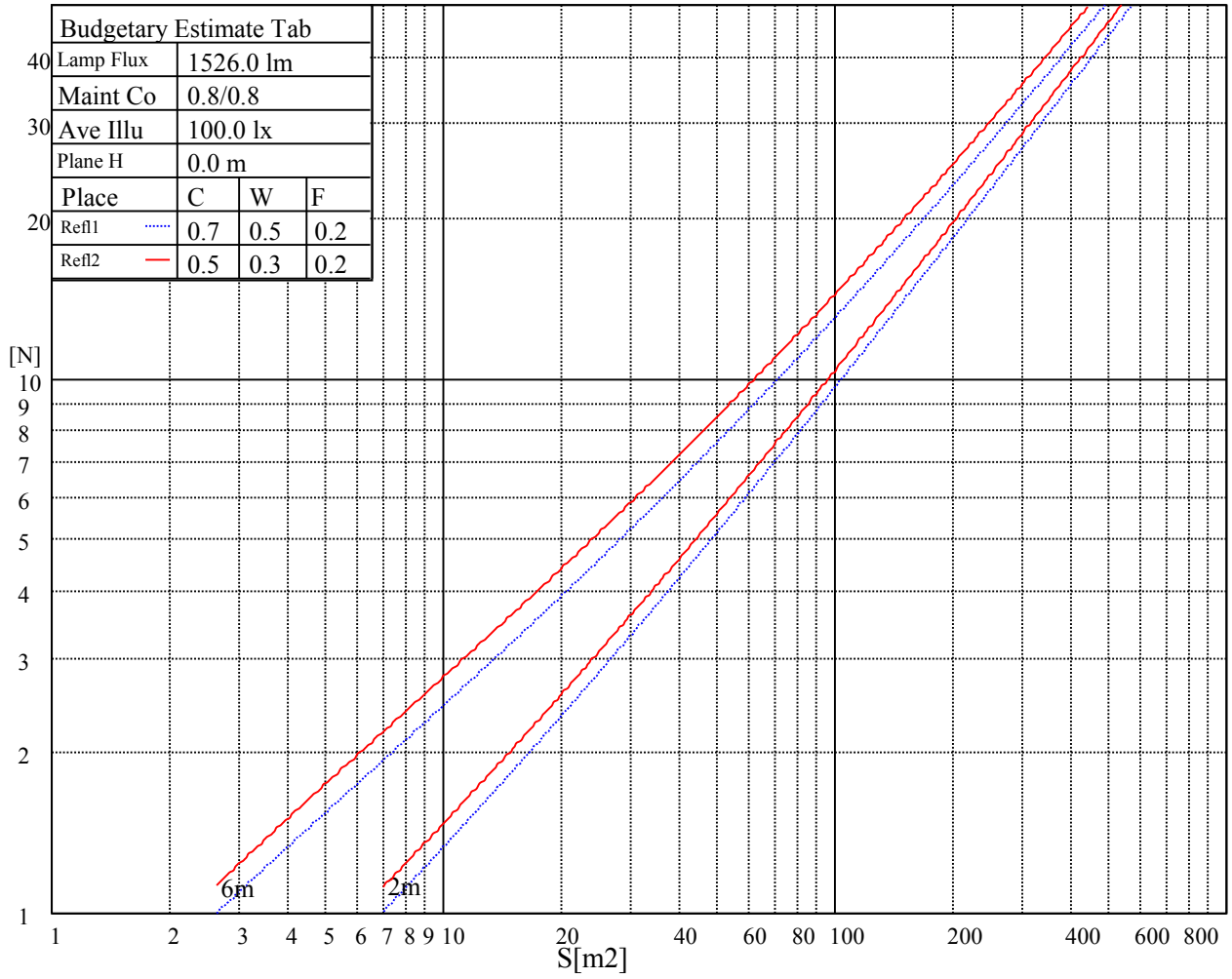
Illumination assessment according UGR

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	21.35	22.53	21.71	22.84	23.15	21.64	22.82	22.00	23.13	23.44
	3H	22.38	23.42	22.76	23.75	24.12	22.67	23.72	23.06	24.05	24.41
	4H	22.78	23.75	23.19	24.10	24.49	23.09	24.05	23.49	24.41	24.79
	6H	23.12	24.01	23.54	24.38	24.78	23.44	24.33	23.86	24.70	25.10
	8H	23.27	24.10	23.70	24.50	24.90	23.59	24.43	24.03	24.82	25.23
	12H	23.52	24.32	23.95	24.71	25.14	23.86	24.66	24.30	25.05	25.48
4H	2H	21.62	22.59	22.03	22.94	23.33	21.87	22.84	22.28	23.19	23.58
	3H	22.87	23.66	23.28	24.07	24.47	23.12	23.91	23.53	24.32	24.72
	4H	23.39	24.10	23.83	24.52	24.97	23.65	24.36	24.09	24.78	25.23
	6H	23.80	24.41	24.26	24.85	25.32	24.07	24.68	24.54	25.13	25.60
	8H	24.01	24.58	24.48	25.02	25.50	24.30	24.87	24.77	25.32	25.79
	12H	24.31	24.81	24.80	25.29	25.77	24.62	25.12	25.11	25.60	26.08
8H	4H	23.56	24.12	24.03	24.57	25.05	23.79	24.36	24.26	24.81	25.28
	6H	24.10	24.56	24.61	25.06	25.54	24.35	24.81	24.86	25.31	25.80
	8H	24.41	24.82	24.94	25.34	25.84	24.68	25.09	25.21	25.61	26.10
	12H	25.22	25.59	25.74	26.08	26.66	25.50	25.87	26.02	26.36	26.94
12H	4H	23.56	24.06	24.05	24.54	25.02	23.79	24.29	24.28	24.77	25.25
	6H	24.61	24.56	24.68	25.03	25.58	24.85	24.81	24.92	25.27	25.82
	8H	24.53	24.89	25.04	25.38	25.96	24.78	25.14	25.30	25.64	26.22

Variation with the observer position at spacings:

S = 1.0H	1.1/-1.8	1.1/-1.8
S = 1.5H	2.2/-2.4	2.2/-2.4
S = 2.0H	4.1/-2.5	4.1/-2.5
Standard tables:	BK2	BK2
Uncorrected UGR	8.7	8.7

Budgetary Estimate Table

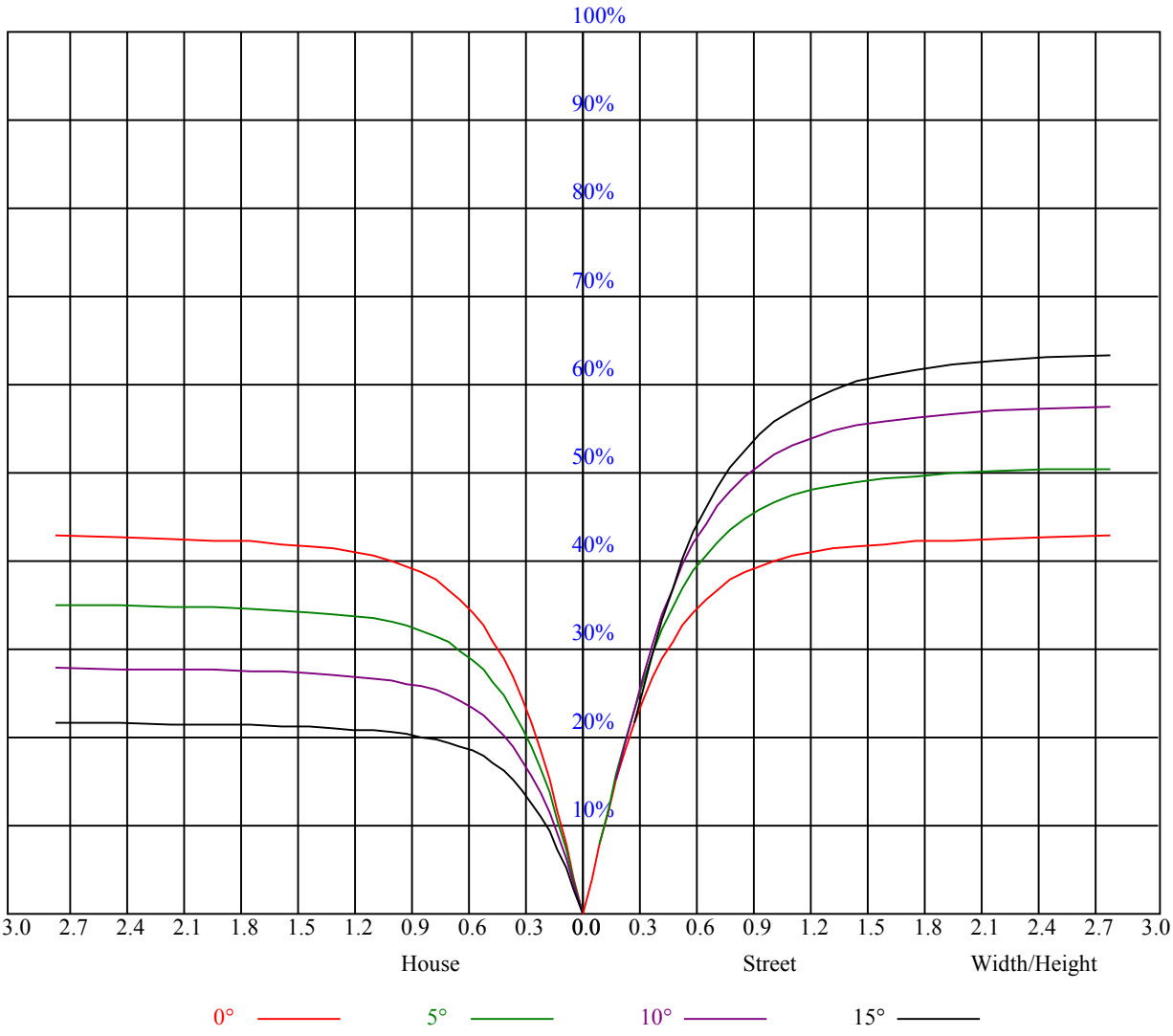


Equipment: GMS1980 Date: 2019/1/11 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.03	1.03	1.03	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.87
1	0.95	0.92	0.90	0.93	0.91	0.89	0.89	0.88	0.86	0.86	0.85	0.83	0.83	0.82	0.81	0.79
2	0.87	0.83	0.80	0.86	0.82	0.79	0.83	0.80	0.77	0.80	0.78	0.76	0.78	0.76	0.74	0.72
3	0.81	0.76	0.72	0.79	0.75	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.73	0.70	0.68	0.66
4	0.75	0.69	0.65	0.74	0.69	0.65	0.72	0.68	0.64	0.70	0.66	0.63	0.68	0.65	0.63	0.61
5	0.70	0.64	0.60	0.69	0.64	0.60	0.67	0.63	0.59	0.66	0.62	0.59	0.64	0.61	0.58	0.57
6	0.65	0.59	0.55	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.54	0.61	0.57	0.54	0.53
7	0.61	0.55	0.52	0.60	0.55	0.51	0.59	0.55	0.51	0.58	0.54	0.51	0.57	0.53	0.51	0.49
8	0.57	0.52	0.48	0.57	0.52	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.54	0.50	0.47	0.46
9	0.54	0.49	0.45	0.54	0.49	0.45	0.53	0.48	0.45	0.52	0.48	0.45	0.51	0.48	0.45	0.43
10	0.51	0.46	0.43	0.51	0.46	0.43	0.50	0.46	0.42	0.50	0.45	0.42	0.49	0.45	0.42	0.41

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/1/11	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	1873.69	1876.50	1869.19	1852.31	1832.63	1806.75	1771.88	1730.81	1690.88
45.0	1848.94	1844.44	1831.50	1812.38	1788.19	1755.56	1716.19	1675.69	1631.25
90.0	1843.88	1836.56	1822.50	1799.44	1771.31	1740.38	1703.81	1651.50	1604.25
135.0	1841.06	1838.81	1828.13	1814.06	1788.19	1756.69	1724.06	1681.31	1636.88
180.0	1873.69	1868.06	1856.25	1833.75	1809.56	1776.38	1723.50	1685.25	1638.00
225.0	1848.94	1846.69	1837.69	1820.25	1794.94	1766.81	1732.50	1684.69	1639.69
270.0	1843.88	1843.88	1837.69	1821.94	1802.81	1773.00	1736.44	1698.75	1655.44
315.0	1841.06	1837.13	1826.44	1803.94	1780.31	1751.06	1711.69	1667.25	1622.81
360.0	1873.69	1876.50	1869.19	1852.31	1832.63	1806.75	1771.88	1730.81	1690.88

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1640.25	1585.69	1533.94	1476.00	1401.75	1343.25	1283.06	1213.31	1142.44
45.0	1572.19	1518.19	1462.50	1396.13	1329.19	1267.88	1200.94	1135.13	1076.63
90.0	1552.50	1486.13	1429.31	1370.25	1302.75	1235.25	1118.59	1103.68	1043.72
135.0	1582.88	1525.50	1469.81	1411.88	1337.63	1277.44	1217.81	1143.56	1084.50
180.0	1573.88	1518.19	1460.81	1387.13	1333.69	1265.63	1189.13	1115.44	1062.73
225.0	1591.88	1525.50	1469.25	1410.75	1342.69	1274.06	1212.75	1115.72	1078.26
270.0	1596.94	1546.88	1493.44	1429.88	1362.94	1301.63	1231.88	1162.13	1101.38
315.0	1568.81	1510.88	1455.75	1388.81	1329.19	1261.13	1193.06	1120.05	1066.73
360.0	1640.25	1585.69	1533.94	1476.00	1401.75	1343.25	1283.06	1213.31	1142.44

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1087.31	1023.19	962.44	909.56	855.56	809.44	759.94	716.06	681.75
45.0	1009.13	951.75	894.94	838.13	791.44	744.19	695.25	657.56	623.81
90.0	977.74	922.22	862.43	806.34	754.71	711.96	671.96	625.84	591.98
135.0	1024.88	960.19	901.13	848.81	794.25	745.88	700.88	658.13	621.56
180.0	1002.71	937.97	883.97	827.44	775.18	732.49	687.94	646.82	612.96
225.0	1012.89	956.19	895.50	838.01	784.29	739.41	697.22	644.96	615.21
270.0	1035.56	978.19	916.88	858.38	809.44	763.31	710.44	670.50	633.38
315.0	995.85	940.50	887.57	824.96	778.11	733.89	687.77	645.41	611.83
360.0	1087.31	1023.19	962.44	909.56	855.56	809.44	759.94	716.06	681.75

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	650.25	613.13	585.56	563.06	534.38	510.19	492.19	472.50	452.81
45.0	582.75	554.63	527.06	497.81	471.38	448.31	423.56	401.06	381.38
90.0	560.76	531.00	496.41	470.64	446.46	417.77	396.23	375.47	352.86
135.0	585.56	552.94	525.38	499.50	469.13	446.63	425.25	399.94	380.25
180.0	581.91	545.46	518.85	493.71	467.38	442.41	421.43	398.76	376.26
225.0	582.41	548.33	517.67	492.64	465.58	440.33	419.46	396.11	375.92
270.0	590.63	560.25	532.69	503.44	477.00	454.50	430.88	407.25	387.56
315.0	575.83	546.69	516.54	488.64	464.79	439.99	418.95	395.66	375.24
360.0	650.25	613.13	585.56	563.06	534.38	510.19	492.19	472.50	452.81

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	427.50	408.38	384.75	358.88	333.00	311.63	287.44	271.07	242.78
45.0	358.88	339.75	318.38	296.44	285.19	259.09	238.84	217.24	201.15
90.0	330.98	311.74	290.93	270.28	252.17	232.59	216.11	198.17	181.41
135.0	360.56	338.63	317.25	298.13	284.06	255.88	235.63	218.64	200.53
180.0	356.34	334.35	314.83	293.12	271.80	253.41	235.35	213.98	197.49
225.0	353.93	332.38	313.48	292.22	271.80	254.19	236.81	215.83	199.86
270.0	365.63	345.94	323.44	302.06	285.75	262.80	243.11	223.99	207.51
315.0	352.69	330.86	311.85	292.50	269.49	251.78	234.34	213.36	197.21
360.0	427.50	408.38	384.75	358.88	333.00	311.63	287.44	271.07	242.78

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	224.38	201.43	182.42	164.70	146.81	133.20	121.50	109.69	99.84
45.0	185.91	167.01	152.94	140.79	125.44	114.92	105.41	95.51	86.68
90.0	167.51	154.58	139.33	128.25	117.84	106.26	97.59	89.72	81.79
135.0	183.21	168.81	153.79	141.36	128.48	116.89	107.55	99.23	89.33
180.0	182.36	164.93	151.82	139.78	127.18	115.88	106.88	97.43	90.06
225.0	184.50	170.04	152.83	140.46	128.98	115.65	106.31	97.76	89.21
270.0	190.13	173.64	158.29	145.41	133.59	121.39	110.59	101.87	93.26
315.0	182.03	165.77	150.64	138.38	125.94	114.53	105.53	96.53	89.27
360.0	224.38	201.43	182.42	164.70	146.81	133.20	121.50	109.69	99.84

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	91.97	84.15	78.19	71.83	66.09	61.76	57.09	53.16	49.44
45.0	79.59	72.62	66.54	61.88	57.15	53.49	49.67	46.13	43.31
90.0	74.93	69.36	63.79	59.40	54.96	51.02	47.70	44.27	41.29
135.0	82.46	76.28	69.41	64.58	60.75	55.80	51.75	48.83	45.00
180.0	82.52	75.88	70.48	65.03	60.08	56.14	52.48	48.26	45.17
225.0	81.45	74.53	69.13	64.24	59.18	54.79	51.24	47.03	44.04
270.0	86.23	79.31	73.13	68.23	63.11	58.56	54.84	51.47	47.81
315.0	81.23	75.43	70.14	65.36	59.91	56.08	52.54	48.77	45.34
360.0	91.97	84.15	78.19	71.83	66.09	61.76	57.09	53.16	49.44

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	46.41	43.14	40.16	37.69	35.49	32.96	31.05	29.19	26.83
45.0	40.28	37.52	35.38	33.30	30.71	29.03	27.23	25.31	23.63
90.0	38.70	36.28	33.58	31.50	29.53	27.51	25.71	24.13	22.44
135.0	42.19	39.60	36.56	34.26	31.84	29.64	27.84	26.38	24.19
180.0	42.24	39.21	36.39	34.09	31.67	29.48	27.73	25.76	24.13
225.0	41.23	38.64	35.66	33.36	31.22	28.69	26.89	25.09	23.29
270.0	44.49	41.85	38.70	36.34	34.09	31.78	29.59	27.73	25.76
315.0	42.53	39.60	36.90	34.71	32.29	30.38	28.24	26.33	24.69
360.0	46.41	43.14	40.16	37.69	35.49	32.96	31.05	29.19	26.83

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	25.09	23.34	21.71	20.14	18.73	17.33	15.92	14.79	13.50
45.0	22.11	20.59	19.01	17.78	16.43	15.19	13.95	12.71	11.70
90.0	20.81	19.46	18.00	16.76	15.41	14.12	13.05	12.04	10.91
135.0	22.73	21.43	19.63	18.23	17.10	15.58	14.29	13.22	12.09
180.0	22.44	20.76	19.35	18.00	16.43	15.19	14.12	12.77	11.81
225.0	21.60	20.14	18.68	17.38	16.03	14.74	13.67	12.60	11.42
270.0	24.02	22.22	20.59	19.13	17.72	16.20	14.96	13.84	12.43
315.0	22.89	21.21	19.80	18.45	16.88	15.64	14.46	13.22	11.93
360.0	25.09	23.34	21.71	20.14	18.73	17.33	15.92	14.79	13.50

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.32	11.14	10.18	9.23	8.44	7.76	7.03	6.53	6.19
45.0	10.63	9.68	8.78	8.04	7.37	6.81	6.02	5.68	5.46
90.0	10.07	9.23	8.38	7.71	7.14	6.64	5.96	5.68	5.51
135.0	11.03	10.18	9.17	8.38	7.59	6.98	6.41	5.91	5.79
180.0	10.86	9.84	8.94	8.04	7.31	6.69	6.08	5.79	5.74
225.0	10.52	9.62	8.72	7.99	7.31	6.75	6.08	5.74	5.51
270.0	11.48	10.41	9.28	8.44	7.54	6.86	6.24	5.79	5.51
315.0	11.03	9.96	9.06	8.21	7.59	6.92	6.41	5.96	5.68
360.0	12.32	11.14	10.18	9.23	8.44	7.76	7.03	6.53	6.19

Intensity data(cd)

C/γ(°)	90.0
0.0	5.96
45.0	5.29
90.0	5.46
135.0	5.68
180.0	5.63
225.0	5.57
270.0	5.40
315.0	5.46
360.0	5.96