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: 3-1545-A3
Luminaire: 99.02.73.172+92.76.365.00

Report No: NATA0100	Voltage(V): 34.0000
Test No: GC2018082807	Current(A): 0.5000
LampCAT: BRIDGELUX V13B	Power (W): 17.0000
Lamp flux(lm): 2575.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 84	Width(mm): 84
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2356.42
Efficiency(%): 91.51%
Lumens(lm)/Power(W): 138.94
Central intensity(cd): 23381.080
Maximum intensity(cd): 23381.080
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=12.7
[C90/270]Total=12.7
Field angle(10%Imax): [C0/180]Total=25.3
[C90/270]Total=25.3
Maximum s/h(1/2): C0_180=0.22 C90_270=0.22
Maximum s/h(1/4): C0_180=0.22 C90_270=0.22
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.73%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.422%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	23381.076	5.594	5.594	.217%	.237%
1.0	23141.580	44.289	49.883	1.720%	2.117%
2.0	22328.123	85.452	135.335	3.319%	5.743%
3.0	20833.342	119.567	254.902	4.643%	10.817%
4.0	18761.156	143.515	398.417	5.573%	16.908%
5.0	15845.920	151.449	549.865	5.881%	23.335%
6.0	12474.197	142.988	692.853	5.553%	29.403%
7.0	10121.706	135.270	828.123	5.253%	35.143%
8.0	7569.292	115.521	943.644	4.486%	40.046%
9.0	5561.522	95.406	1039.05	3.705%	44.094%
10.0	4162.264	79.260	1118.31	3.078%	47.458%
11.0	3193.959	66.831	1185.141	2.595%	50.294%
12.0	2675.328	60.997	1246.138	2.369%	52.883%
13.0	2144.653	52.905	1299.043	2.055%	55.128%
14.0	1784.034	47.329	1346.373	1.838%	57.136%
15.0	1562.501	44.347	1390.72	1.722%	59.018%
16.0	1409.581	42.607	1433.327	1.655%	60.826%
17.0	1287.287	41.273	1474.599	1.603%	62.578%
18.0	1196.630	40.550	1515.15	1.575%	64.299%
19.0	1137.403	40.608	1555.757	1.577%	66.022%
20.0	1090.027	40.883	1596.64	1.588%	67.757%
21.0	1052.885	41.377	1638.018	1.607%	69.513%
22.0	1024.758	42.097	1680.114	1.635%	71.299%
23.0	995.736	42.665	1722.779	1.657%	73.110%
24.0	964.285	43.010	1765.79	1.670%	74.935%
25.0	936.860	43.419	1809.208	1.686%	76.778%
26.0	910.908	43.789	1852.997	1.701%	78.636%
27.0	887.131	44.166	1897.163	1.715%	80.510%
28.0	865.211	44.543	1941.707	1.730%	82.401%
29.0	841.537	44.740	1986.447	1.737%	84.299%
30.0	822.804	45.115	2031.561	1.752%	86.214%
31.0	806.232	45.536	2077.097	1.768%	88.146%
32.0	772.015	44.863	2121.96	1.742%	90.050%
33.0	704.674	42.087	2164.047	1.634%	91.836%
34.0	614.877	37.705	2201.752	1.464%	93.436%
35.0	503.911	31.695	2233.448	1.231%	94.781%
36.0	390.522	25.172	2258.619	.978%	95.850%
37.0	292.845	19.326	2277.946	.751%	96.670%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	197.198	13.314	2291.26	.517%	97.235%
39.0	93.424	6.447	2297.707	.250%	97.508%
40.0	48.099	3.390	2301.097	.132%	97.652%
41.0	32.820	2.361	2303.459	.092%	97.753%
42.0	26.358	1.934	2305.393	.075%	97.835%
43.0	21.334	1.596	2306.988	.062%	97.902%
44.0	18.403	1.402	2308.39	.054%	97.962%
45.0	15.354	1.191	2309.581	.046%	98.012%
46.0	12.911	1.018	2310.599	.040%	98.056%
47.0	12.498	1.002	2311.601	.039%	98.098%
48.0	12.264	0.999	2312.601	.039%	98.141%
49.0	12.057	0.998	2313.599	.039%	98.183%
50.0	11.865	0.997	2314.595	.039%	98.225%
51.0	11.699	0.997	2315.592	.039%	98.267%
52.0	11.548	0.998	2316.59	.039%	98.310%
53.0	11.417	1.000	2317.59	.039%	98.352%
54.0	11.273	1.000	2318.59	.039%	98.395%
55.0	11.176	1.004	2319.594	.039%	98.437%
56.0	11.059	1.005	2320.6	.039%	98.480%
57.0	10.963	1.008	2321.608	.039%	98.523%
58.0	10.867	1.011	2322.619	.039%	98.566%
59.0	10.784	1.014	2323.632	.039%	98.609%
60.0	10.715	1.018	2324.65	.040%	98.652%
61.0	10.667	1.023	2325.673	.040%	98.695%
62.0	10.612	1.028	2326.701	.040%	98.739%
63.0	10.550	1.031	2327.731	.040%	98.783%
64.0	10.523	1.037	2328.769	.040%	98.827%
65.0	10.461	1.040	2329.808	.040%	98.871%
66.0	10.426	1.045	2330.853	.041%	98.915%
67.0	10.385	1.048	2331.901	.041%	98.960%
68.0	10.357	1.053	2332.954	.041%	99.004%
69.0	10.323	1.057	2334.011	.041%	99.049%
70.0	10.302	1.062	2335.073	.041%	99.094%
71.0	10.309	1.069	2336.142	.042%	99.140%
72.0	10.261	1.070	2337.212	.042%	99.185%
73.0	10.254	1.075	2338.287	.042%	99.231%
74.0	10.247	1.080	2339.367	.042%	99.276%
75.0	10.220	1.083	2340.45	.042%	99.322%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.206	1.086	2341.536	.042%	99.368%
77.0	10.206	1.091	2342.626	.042%	99.415%
78.0	10.185	1.093	2343.719	.042%	99.461%
79.0	10.172	1.095	2344.814	.043%	99.508%
80.0	10.172	1.098	2345.912	.043%	99.554%
81.0	10.165	1.101	2347.013	.043%	99.601%
82.0	10.158	1.103	2348.116	.043%	99.648%
83.0	10.137	1.103	2349.22	.043%	99.695%
84.0	10.144	1.106	2350.326	.043%	99.741%
85.0	10.179	1.112	2351.438	.043%	99.789%
86.0	10.199	1.116	2352.554	.043%	99.836%
87.0	10.123	1.109	2353.662	.043%	99.883%
88.0	10.055	1.102	2354.764	.043%	99.930%
89.0	10.055	1.102	2355.867	.043%	99.977%
90.0	10.062	0.552	2356.418	.021%	100.000%

Zonal flux distribution table

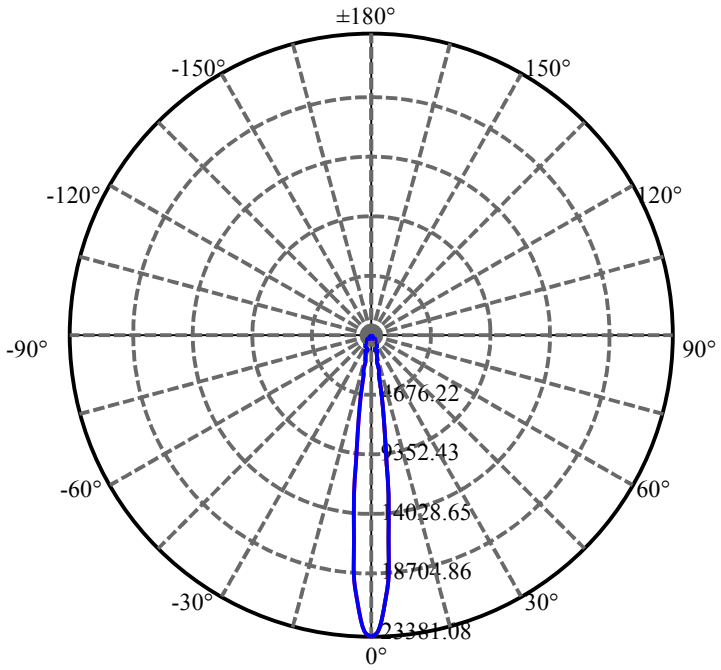
ZONAL LUMEN SUMMARY

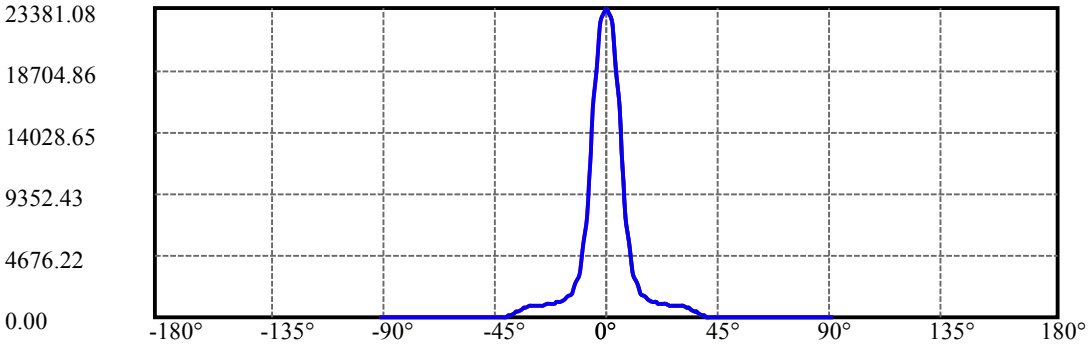
Zone	Lumens	%Lamp	%Fixt
0-30	2031.56	78.90%	86.21%
0-40	2301.10	89.36%	97.65%
0-60	2324.65	90.28%	98.65%
0-90	2355.87	91.49%	99.98%
0-120	2355.87	91.49%	99.98%
0-180	2356.42	91.51%	100.00%
60-90	32.23	1.25%	1.37%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.73	1885.14	73.21%	80.00%

ZONAL LUMEN SUMMARY

0-10	1118.31
10-20	478.33
20-30	434.92
30-40	269.54
40-50	13.50
50-60	10.05
60-70	10.42
70-80	10.84
80-90	9.95
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:12.6 Right:12.6
:C90/270Left:12.6 Right:12.6

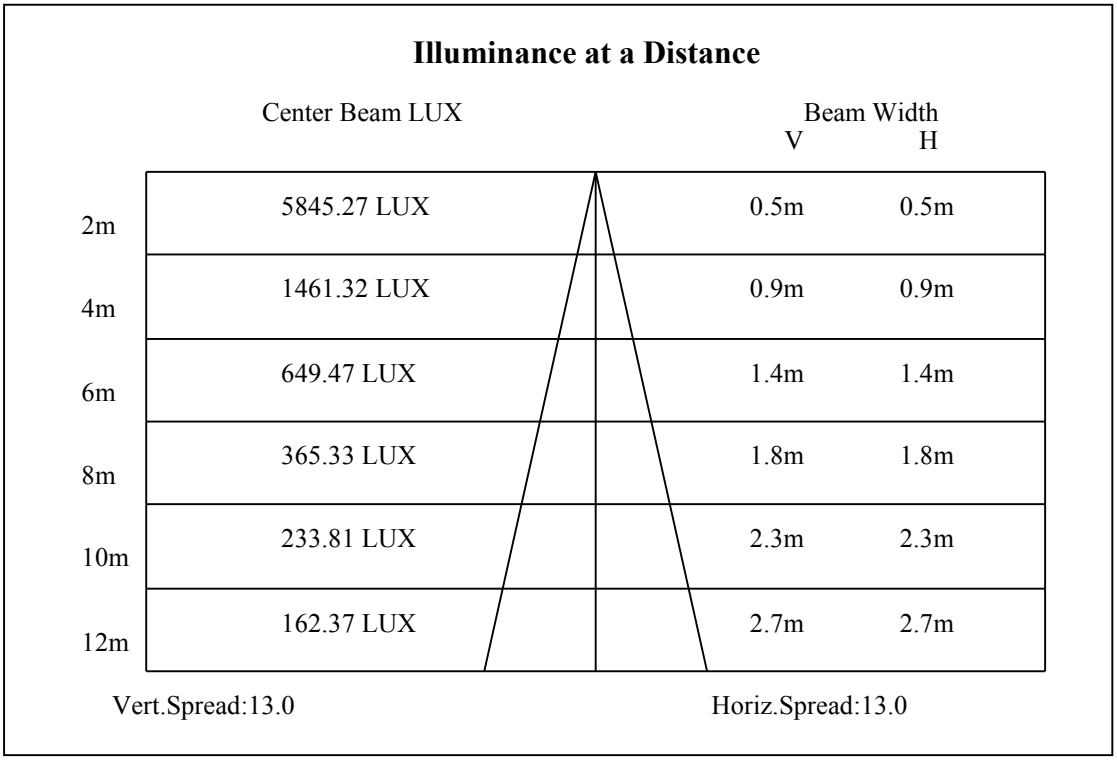
Beam Angle(50%Imax):C0/180Left:6.3 Right:6.3
:C90/270Left:6.3 Right:6.3

Equipment: GMS1980
Temperature(°C): 25.0

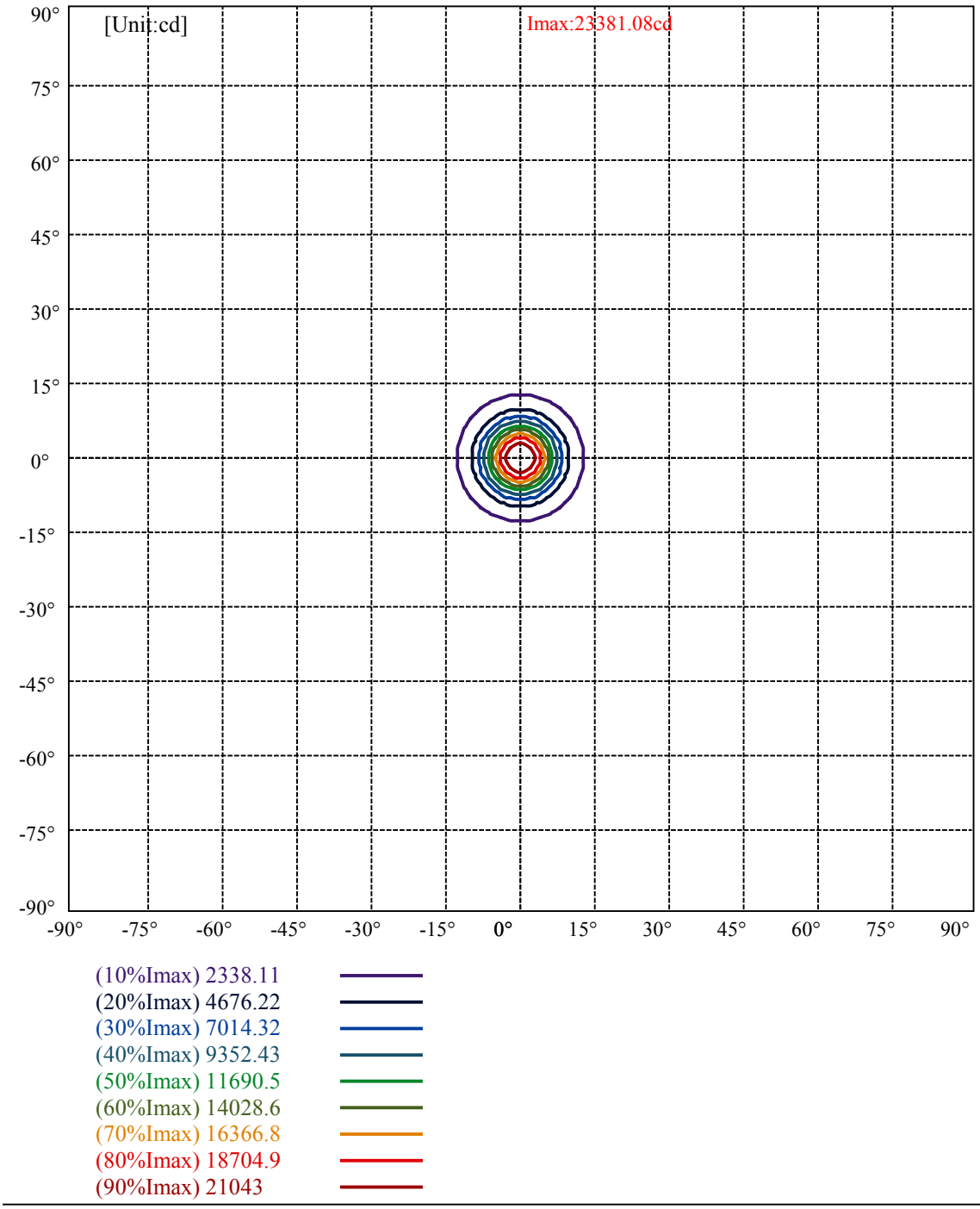
Date: 2018/8/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

Lux distance Curve



ISO-Intensity(V-H)

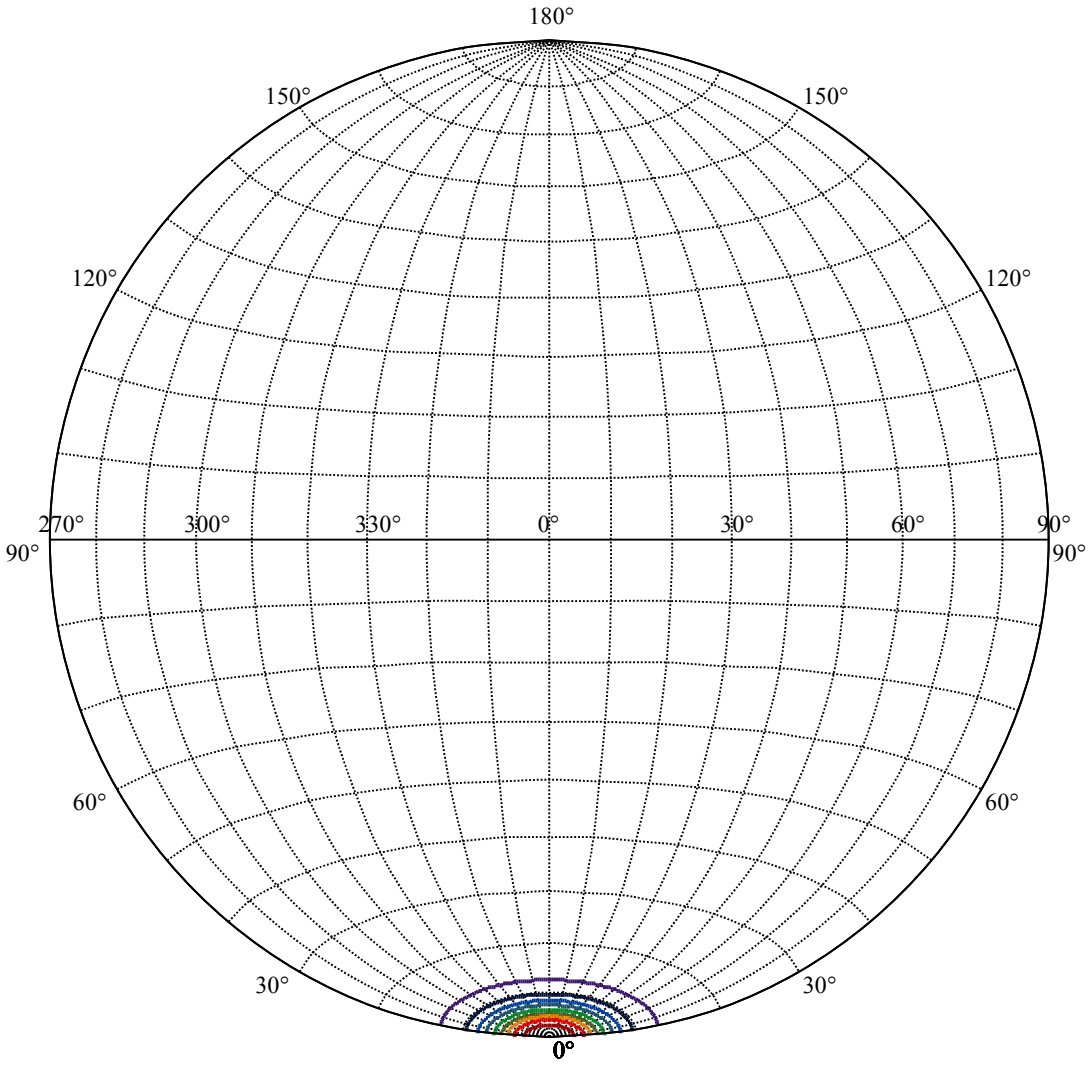


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/8/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

ISO candela diagram on circular web



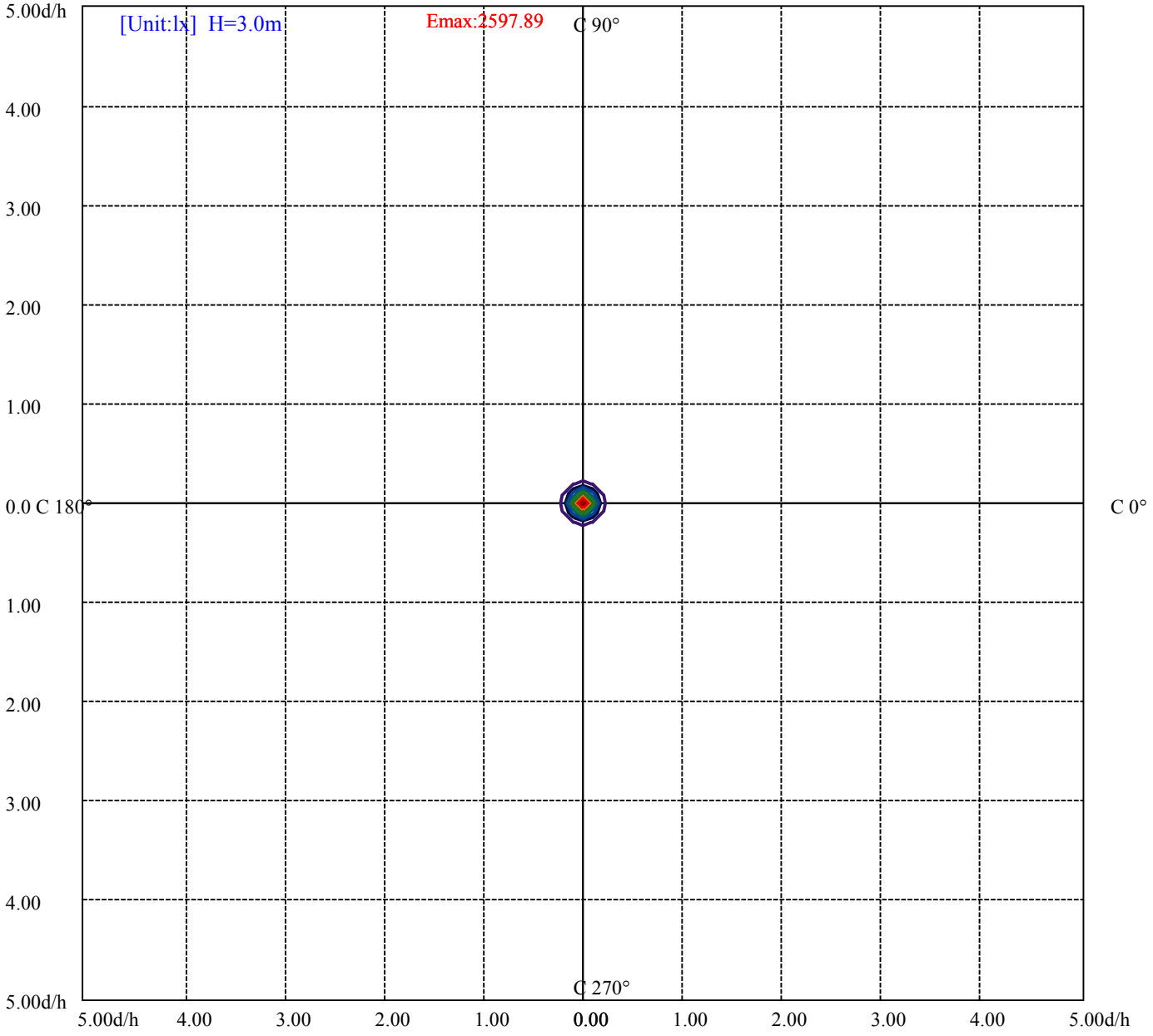
House [Unit:cd] Road

Imax:23381.08

(10%Imax) 2338.11
(20%Imax) 4676.22
(30%Imax) 7014.32
(40%Imax) 9352.43
(50%Imax) 11690.5
(60%Imax) 14028.6
(70%Imax) 16366.8
(80%Imax) 18704.9
(90%Imax) 21043

Equipment: GMS1980 Date: 2018/8/28 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.42

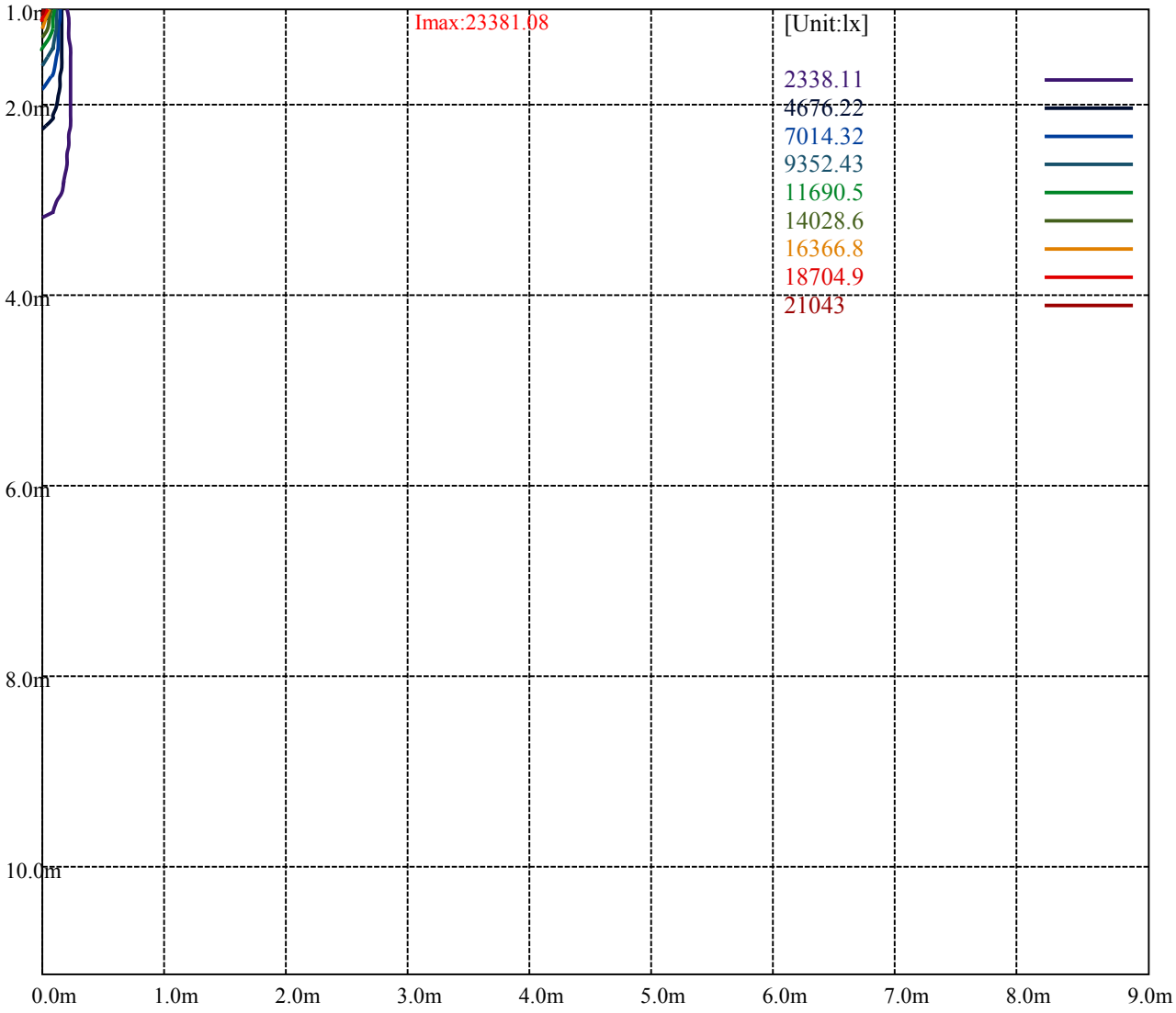
ISO illuminance diagram



(10%Emax) 259.7889
(20%Emax) 519.5789
(30%Emax) 779.3678
(40%Emax) 1039.158
(50%Emax) 1298.944
(60%Emax) 1558.733
(70%Emax) 1818.522
(80%Emax) 2078.311
(90%Emax) 2338.1

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2018/8/28
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.42

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/8/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

Luminance Limitting Curve(no luminous side)

Luminance Table

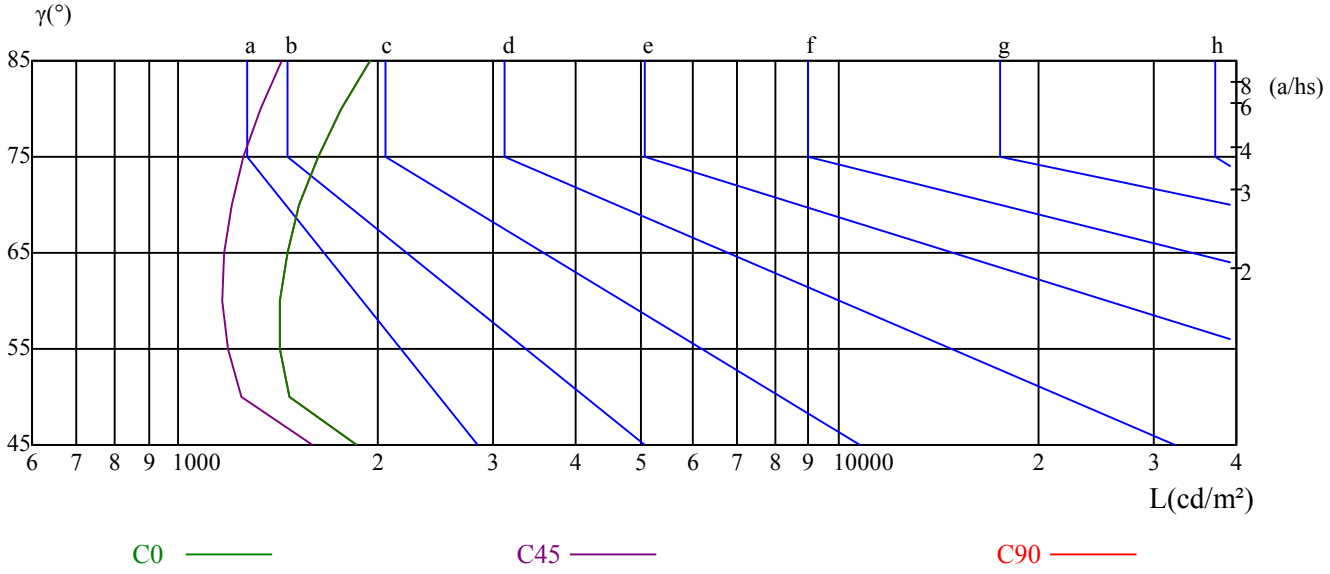
γ	45	50	55	60	65	70	75	80	85
C0	1860	1469	1427	1423	1459	1525	1625	1761	1951
C45	1598	1244	1189	1166	1175	1205	1256	1328	1429
C90	1860	1469	1427	1423	1459	1525	1625	1761	1951

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3508	3508	3508	5596	5596	5596	16551	16551	16551

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): 25.0

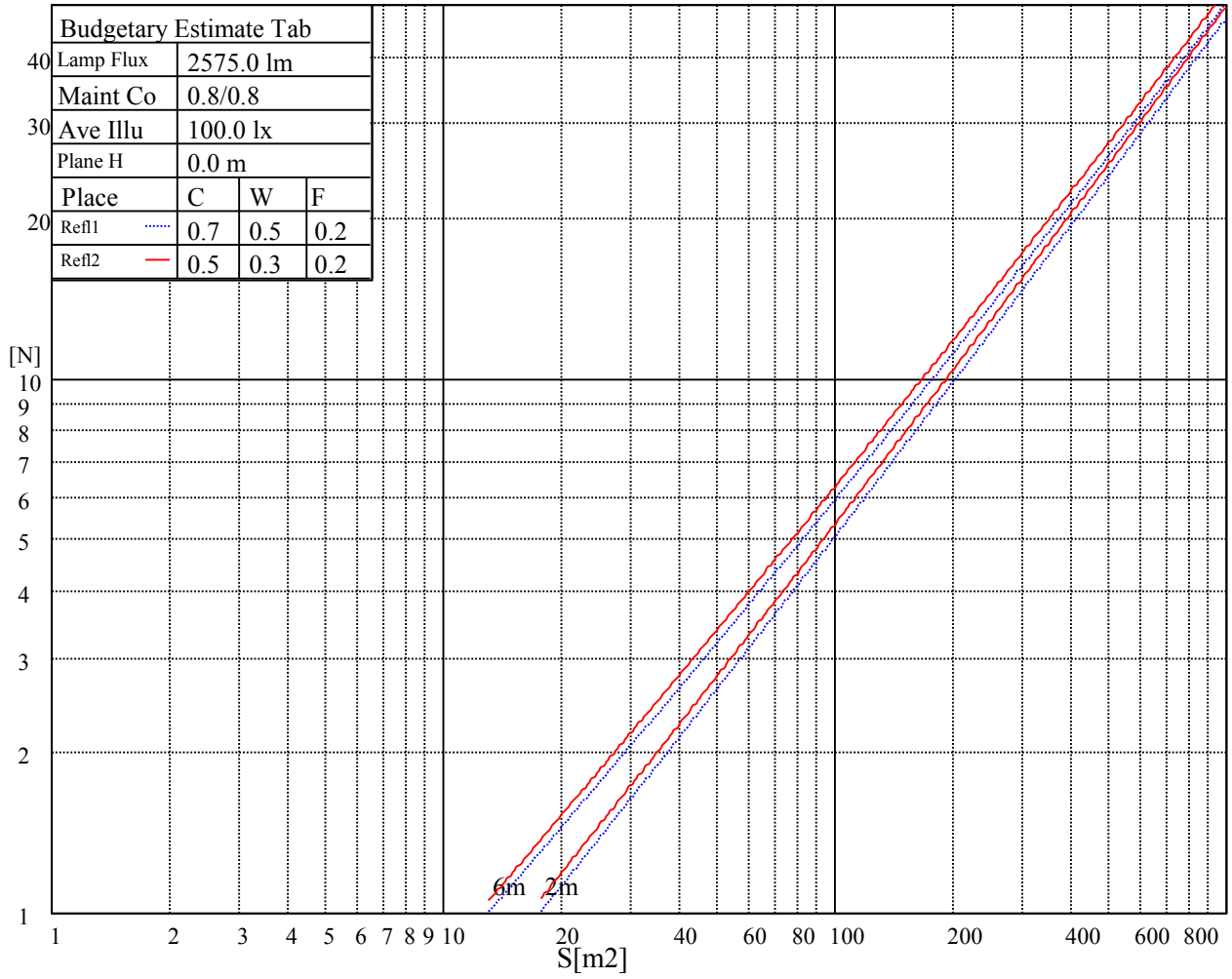
Date: 2018/8/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

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	-0.66	0.25	-0.29	0.56	0.88	-0.67	0.24	-0.31	0.55	0.86
	3H	1.63	2.43	2.02	2.77	3.14	1.63	2.43	2.02	2.77	3.14
	4H	2.88	3.62	3.29	3.98	4.37	2.90	3.64	3.31	3.99	4.38
	6H	4.21	4.89	4.63	5.26	5.66	4.23	4.91	4.65	5.28	5.68
	8H	4.88	5.51	5.32	5.91	6.32	4.89	5.53	5.33	5.92	6.33
	12H	5.91	6.52	6.35	6.90	7.33	5.92	6.53	6.36	6.91	7.34
4H	2H	-0.17	0.57	0.24	0.93	1.32	-0.18	0.56	0.23	0.92	1.31
	3H	2.42	3.03	2.84	3.44	3.85	2.42	3.03	2.84	3.44	3.85
	4H	3.84	4.39	4.28	4.81	5.26	3.86	4.41	4.30	4.83	5.28
	6H	5.27	5.74	5.75	6.19	6.67	5.30	5.76	5.77	6.21	6.69
	8H	6.05	6.48	6.53	6.94	7.41	6.07	6.50	6.55	6.95	7.43
	12H	7.08	7.45	7.57	7.94	8.42	7.09	7.46	7.58	7.95	8.43
8H	4H	4.29	4.72	4.76	5.17	5.64	4.30	4.73	4.78	5.19	5.66
	6H	5.96	6.29	6.47	6.80	7.29	5.97	6.31	6.48	6.82	7.30
	8H	6.89	7.19	7.42	7.71	8.21	6.90	7.20	7.44	7.72	8.22
	12H	8.04	8.30	8.57	8.80	9.38	8.05	8.30	8.57	8.80	9.39
12H	4H	4.38	4.75	4.87	5.24	5.72	4.39	4.76	4.89	5.25	5.73
	6H	6.32	6.43	6.67	6.90	7.45	6.34	6.45	6.68	6.92	7.47
	8H	7.16	7.41	7.68	7.91	8.50	7.17	7.43	7.69	7.93	8.51

Variation with the observer position at spacings:		
S = 1.0H	6.0/-8.3	6.0/-8.3
S = 1.5H	8.4/-6.5	8.4/-6.5
S = 2.0H	10.0/-5.2	10.0/-5.2
Standard tables:	BK1	BK1
Uncorrected UGR	-3.5	-3.5

Budgetary Estimate Table

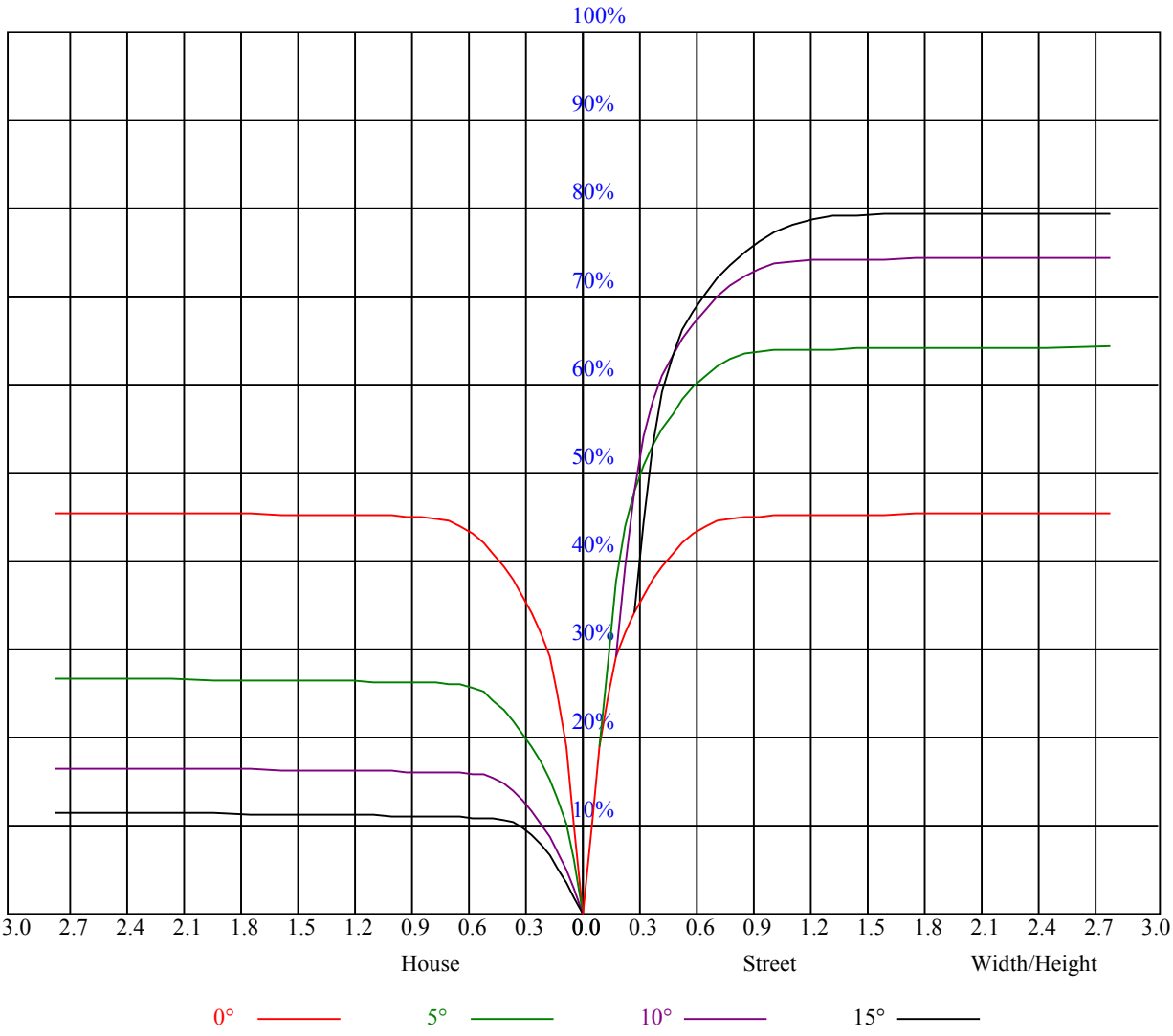


Equipment: GMS1980 Date: 2018/8/28 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.42

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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88
2	0.98	0.95	0.92	0.96	0.94	0.91	0.93	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.86	0.84
3	0.93	0.90	0.87	0.92	0.89	0.86	0.90	0.87	0.85	0.88	0.86	0.84	0.86	0.84	0.83	0.81
4	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.83	0.81	0.84	0.81	0.80	0.79
5	0.86	0.82	0.79	0.85	0.82	0.79	0.84	0.81	0.78	0.83	0.80	0.78	0.81	0.79	0.77	0.76
6	0.83	0.79	0.76	0.83	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.79	0.77	0.75	0.74
7	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.75	0.73	0.72
8	0.78	0.74	0.72	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.73	0.71	0.70
9	0.76	0.72	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.74	0.71	0.69	0.68
10	0.74	0.70	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.72	0.69	0.67	0.66

Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/8/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

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	23398.97	23184.25	22501.55	21026.04	18977.94	16472.87	13031.85	10345.10	7895.09
45.0	23415.49	22997.06	21846.38	20205.70	17992.43	14711.07	11941.73	9265.99	6733.40
90.0	23288.86	22666.72	21301.32	19143.11	16676.58	12607.92	10824.09	7954.55	5746.79
135.0	23420.99	23167.73	22352.90	20745.25	18636.59	16137.03	12679.49	9981.73	7597.78
180.0	23398.97	23090.65	22347.39	20772.78	18355.80	15779.16	10880.25	9885.93	7226.70
225.0	23415.49	23349.42	22798.86	21532.56	19732.21	16962.88	14232.08	10785.55	8291.49
270.0	23288.86	23465.04	23090.65	22226.27	20717.72	17931.87	15245.12	12459.26	9497.23
315.0	23420.99	23211.78	22385.93	21015.03	18999.96	16164.56	10958.98	10295.55	7565.85
360.0	23398.97	23184.25	22501.55	21026.04	18977.94	16472.87	13031.85	10345.10	7895.09

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5533.17	4228.33	3303.38	2791.36	2102.05	1802.00	1558.65	1395.68	1272.35
45.0	4916.54	3754.85	2879.45	2796.87	1942.94	1691.33	1488.73	1342.83	1249.23
90.0	4360.47	3293.47	2570.03	2142.80	1836.13	1575.71	1425.41	1307.59	1205.18
135.0	5368.00	4107.21	3209.79	2785.85	2058.01	1769.51	1546.53	1407.24	1285.57
180.0	5447.28	3915.06	3089.21	2509.47	2051.40	1741.43	1551.49	1411.10	1278.96
225.0	6261.01	4603.27	3456.99	2763.28	2273.28	1859.81	1639.03	1476.61	1330.71
270.0	6942.61	5235.86	3886.98	3066.64	2824.39	2080.03	1732.07	1525.61	1406.14
315.0	5663.10	4160.06	3155.83	2546.36	2069.02	1752.45	1558.10	1409.99	1270.15
360.0	5533.17	4228.33	3303.38	2791.36	2102.05	1802.00	1558.65	1395.68	1272.35

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1199.13	1152.33	1109.94	1074.70	1046.62	1021.85	988.81	963.49	935.41
45.0	1177.66	1130.86	1089.57	1057.08	1032.86	996.52	966.24	936.51	912.28
90.0	1095.46	1086.59	1050.48	1021.24	997.73	968.77	941.63	915.64	891.97
135.0	1192.52	1130.31	1082.96	1046.62	1016.89	989.91	955.78	929.35	904.03
180.0	1195.27	1095.90	1069.91	1028.95	1000.21	971.47	939.76	914.76	888.50
225.0	1243.72	1171.05	1092.10	1064.63	1031.48	1002.25	969.93	937.28	908.16
270.0	1277.31	1200.23	1134.71	1076.90	1044.42	1016.89	986.06	960.73	933.76
315.0	1191.97	1131.96	1090.56	1052.95	1027.85	998.23	966.07	937.11	913.17
360.0	1199.13	1152.33	1109.94	1074.70	1046.62	1021.85	988.81	963.49	935.41

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	912.28	888.61	865.49	842.91	823.64	801.07	729.50	641.41	527.44
45.0	886.41	864.39	841.81	823.64	804.92	759.78	673.34	573.14	466.88
90.0	870.22	849.63	823.20	806.91	785.10	715.13	621.86	523.64	419.58
135.0	880.35	857.23	835.21	813.73	799.97	771.34	698.67	604.52	488.35
180.0	869.62	849.02	826.18	809.16	795.95	758.68	688.59	597.97	472.27
225.0	882.00	862.95	837.02	819.46	805.70	783.95	731.26	649.06	553.21
270.0	906.23	882.55	860.53	836.86	819.24	804.37	772.99	695.36	607.27
315.0	889.93	867.30	842.86	829.76	815.33	781.80	721.18	633.92	496.28
360.0	912.28	888.61	865.49	842.91	823.64	801.07	729.50	641.41	527.44

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	422.28	301.16	287.94	102.68	45.86	33.36	27.97	22.24	19.71
45.0	347.41	280.79	137.92	62.87	35.35	30.61	23.40	19.88	17.01
90.0	290.75	195.12	113.58	46.14	32.32	26.04	20.37	17.29	14.42
135.0	373.28	285.19	175.19	80.55	38.21	29.35	21.75	17.45	15.69
180.0	369.43	269.67	166.44	84.02	39.26	28.96	22.63	16.85	15.20
225.0	422.67	321.80	225.57	114.90	56.60	34.80	29.40	22.90	19.55
270.0	494.96	389.80	281.89	158.23	88.42	44.98	35.35	29.84	24.83
315.0	403.40	299.23	189.06	98.00	48.78	34.47	30.01	24.22	20.81
360.0	422.28	301.16	287.94	102.68	45.86	33.36	27.97	22.24	19.71

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	16.68	12.83	12.50	12.33	12.06	11.89	11.73	11.56	11.40
45.0	12.88	12.66	12.39	12.22	12.00	11.84	11.67	11.56	11.40
90.0	12.66	12.44	12.22	12.00	11.89	11.67	11.51	11.40	11.29
135.0	12.99	12.55	12.33	12.17	12.00	11.78	11.67	11.51	11.40
180.0	13.32	12.72	12.50	12.22	12.00	11.84	11.67	11.51	11.40
225.0	16.79	13.05	12.72	12.39	12.17	12.00	11.78	11.62	11.51
270.0	21.03	14.26	12.83	12.50	12.28	12.06	11.89	11.73	11.56
315.0	16.46	12.77	12.50	12.28	12.06	11.84	11.67	11.51	11.40
360.0	16.68	12.83	12.50	12.33	12.06	11.89	11.73	11.56	11.40

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.29	11.18	11.07	11.01	10.90	10.85	10.74	10.68	10.63
45.0	11.23	11.18	11.07	10.96	10.85	10.79	10.68	10.68	10.57
90.0	11.12	11.07	10.96	10.85	10.79	10.68	10.63	10.57	10.57
135.0	11.23	11.18	11.07	10.96	10.85	10.79	10.74	10.68	10.63
180.0	11.29	11.18	11.07	10.96	10.90	10.79	10.74	10.68	10.63
225.0	11.34	11.23	11.12	11.01	10.90	10.79	10.74	10.68	10.63
270.0	11.40	11.29	11.12	11.07	10.96	10.85	10.79	10.74	10.68
315.0	11.29	11.12	11.01	10.90	10.79	10.74	10.68	10.63	10.57
360.0	11.29	11.18	11.07	11.01	10.90	10.85	10.74	10.68	10.63

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.57	10.52	10.46	10.41	10.35	10.30	10.30	10.30	10.30
45.0	10.57	10.52	10.46	10.41	10.35	10.30	10.30	10.24	10.30
90.0	10.46	10.46	10.41	10.35	10.35	10.30	10.30	10.24	10.24
135.0	10.57	10.57	10.52	10.46	10.41	10.41	10.35	10.35	10.35
180.0	10.57	10.52	10.46	10.46	10.41	10.41	10.35	10.35	10.35
225.0	10.57	10.52	10.46	10.41	10.41	10.41	10.35	10.30	10.30
270.0	10.57	10.57	10.52	10.52	10.46	10.41	10.35	10.35	10.35
315.0	10.52	10.52	10.41	10.41	10.35	10.35	10.30	10.30	10.30
360.0	10.57	10.52	10.46	10.41	10.35	10.30	10.30	10.30	10.30

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.24	10.24	10.24	10.24	10.19	10.19	10.19	10.19	10.19
45.0	10.24	10.24	10.19	10.19	10.19	10.19	10.13	10.13	10.13
90.0	10.24	10.19	10.19	10.13	10.19	10.19	10.13	10.13	10.13
135.0	10.30	10.30	10.30	10.24	10.24	10.24	10.19	10.19	10.19
180.0	10.30	10.30	10.30	10.30	10.24	10.24	10.24	10.19	10.19
225.0	10.24	10.24	10.24	10.24	10.19	10.19	10.19	10.19	10.19
270.0	10.30	10.30	10.30	10.24	10.24	10.24	10.24	10.19	10.19
315.0	10.24	10.24	10.24	10.19	10.19	10.19	10.19	10.19	10.19
360.0	10.24	10.24	10.24	10.24	10.19	10.19	10.19	10.19	10.19

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.19	10.13	10.13	10.13	10.13	10.13	10.08	10.08	10.08
45.0	10.13	10.13	10.08	10.08	10.08	10.08	10.02	10.02	10.02
90.0	10.13	10.13	10.13	10.13	10.24	10.13	10.02	10.02	10.02
135.0	10.19	10.19	10.19	10.19	10.19	10.30	10.08	10.08	10.08
180.0	10.19	10.19	10.13	10.19	10.24	10.19	10.08	10.08	10.08
225.0	10.19	10.19	10.13	10.13	10.19	10.19	10.19	10.02	10.02
270.0	10.19	10.19	10.19	10.19	10.19	10.24	10.41	10.08	10.08
315.0	10.13	10.13	10.13	10.13	10.19	10.35	10.13	10.08	10.08
360.0	10.19	10.13	10.13	10.13	10.13	10.13	10.08	10.08	10.08

Intensity data(cd)

C/γ(°)	90.0
0.0	10.08
45.0	10.02
90.0	10.08
135.0	10.08
180.0	10.08
225.0	10.02
270.0	10.08
315.0	10.08
360.0	10.08