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Nata

LumCAT: 2-1674-M
Luminaire: 92.70.131.00
Report No: NATA0100
Test No: GC2018091014
LampCAT: LUMINUS CXM-11-AC30
Lamp flux(lm): 2547.0
Number of Lamps: 1
Length(mm): 71
Phm Type: C

Voltage(V): 34.6000
Current(A): 0.5100
Power (W): 17.6460
PF: 0.0000
Ballast type: DC
Width(mm): 71
Height(mm): 0

Photometric Results

Lumens(lm): 2285.58
Efficiency(%): 89.74%
Lumens(lm)/Power(W): 129.80
Central intensity(cd): 20455.310
Maximum intensity(cd): 20455.310
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=13.4
[C90/270]Total=13.4
Field angle(10%Imax): [C0/180]Total=26.0
[C90/270]Total=26.0
Maximum s/h(1/2): C0_180=0.23 C90_270=0.23
Maximum s/h(1/4): C0_180=0.23 C90_270=0.23
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.92%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.449%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	20455.313	4.894	4.894	.192%	.214%
1.0	20203.594	38.667	43.56	1.518%	1.906%
2.0	19425.938	74.345	117.906	2.919%	5.159%
3.0	18058.359	103.641	221.546	4.069%	9.693%
4.0	16271.016	124.466	346.012	4.887%	15.139%
5.0	13857.891	132.448	478.46	5.200%	20.934%
6.0	11719.477	134.337	612.797	5.274%	26.811%
7.0	9518.766	127.212	740.008	4.995%	32.377%
8.0	7494.680	114.383	854.391	4.491%	37.382%
9.0	5627.953	96.546	950.937	3.791%	41.606%
10.0	4080.164	77.696	1028.633	3.050%	45.005%
11.0	3162.867	66.181	1094.814	2.598%	47.901%
12.0	2512.758	57.290	1152.104	2.249%	50.408%
13.0	2038.078	50.276	1202.38	1.974%	52.607%
14.0	1686.797	44.750	1247.13	1.757%	54.565%
15.0	1486.266	42.184	1289.314	1.656%	56.411%
16.0	1313.297	39.697	1329.01	1.559%	58.148%
17.0	1209.347	38.774	1367.784	1.522%	59.844%
18.0	1123.573	38.075	1405.859	1.495%	61.510%
19.0	1068.855	38.160	1444.019	1.498%	63.180%
20.0	1023.968	38.405	1482.424	1.508%	64.860%
21.0	986.077	38.752	1521.176	1.521%	66.555%
22.0	950.674	39.053	1560.229	1.533%	68.264%
23.0	922.887	39.544	1599.773	1.553%	69.994%
24.0	896.266	39.976	1639.749	1.570%	71.743%
25.0	867.959	40.225	1679.975	1.579%	73.503%
26.0	848.623	40.795	1720.77	1.602%	75.288%
27.0	831.263	41.384	1762.154	1.625%	77.099%
28.0	815.899	42.005	1804.159	1.649%	78.937%
29.0	803.053	42.694	1846.853	1.676%	80.805%
30.0	791.670	43.408	1890.26	1.704%	82.704%
31.0	777.621	43.920	1934.18	1.724%	84.625%
32.0	765.021	44.456	1978.637	1.745%	86.570%
33.0	748.174	44.685	2023.322	1.754%	88.526%
34.0	707.625	43.393	2066.714	1.704%	90.424%
35.0	638.831	40.182	2106.896	1.578%	92.182%
36.0	550.470	35.482	2142.378	1.393%	93.735%
37.0	450.049	29.701	2172.079	1.166%	95.034%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	346.852	23.417	2195.496	.919%	96.059%
39.0	255.389	17.625	2213.121	.692%	96.830%
40.0	171.464	12.086	2225.208	.475%	97.359%
41.0	83.405	6.000	2231.208	.236%	97.621%
42.0	40.240	2.953	2234.161	.116%	97.750%
43.0	23.386	1.749	2235.91	.069%	97.827%
44.0	20.953	1.596	2237.506	.063%	97.897%
45.0	18.823	1.460	2238.965	.057%	97.961%
46.0	16.580	1.308	2240.273	.051%	98.018%
47.0	14.745	1.183	2241.456	.046%	98.069%
48.0	13.718	1.118	2242.574	.044%	98.118%
49.0	12.720	1.053	2243.626	.041%	98.164%
50.0	12.389	1.041	2244.667	.041%	98.210%
51.0	12.143	1.035	2245.702	.041%	98.255%
52.0	11.918	1.030	2246.732	.040%	98.300%
53.0	11.693	1.024	2247.756	.040%	98.345%
54.0	11.517	1.022	2248.778	.040%	98.390%
55.0	11.341	1.019	2249.796	.040%	98.434%
56.0	11.180	1.016	2250.813	.040%	98.479%
57.0	11.046	1.016	2251.829	.040%	98.523%
58.0	10.905	1.014	2252.843	.040%	98.568%
59.0	10.751	1.011	2253.853	.040%	98.612%
60.0	10.624	1.009	2254.862	.040%	98.656%
61.0	10.498	1.007	2255.869	.040%	98.700%
62.0	10.392	1.006	2256.876	.040%	98.744%
63.0	10.329	1.009	2257.885	.040%	98.788%
64.0	10.266	1.012	2258.897	.040%	98.833%
65.0	10.209	1.015	2259.911	.040%	98.877%
66.0	10.167	1.019	2260.93	.040%	98.922%
67.0	10.111	1.021	2261.95	.040%	98.966%
68.0	10.069	1.024	2262.974	.040%	99.011%
69.0	10.048	1.029	2264.003	.040%	99.056%
70.0	10.005	1.031	2265.034	.040%	99.101%
71.0	9.977	1.035	2266.068	.041%	99.146%
72.0	9.942	1.037	2267.105	.041%	99.192%
73.0	9.914	1.040	2268.145	.041%	99.237%
74.0	9.914	1.045	2269.19	.041%	99.283%
75.0	9.886	1.047	2270.237	.041%	99.329%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.858	1.049	2271.286	.041%	99.375%
77.0	9.837	1.051	2272.337	.041%	99.421%
78.0	9.823	1.054	2273.391	.041%	99.467%
79.0	9.802	1.055	2274.446	.041%	99.513%
80.0	9.802	1.059	2275.504	.042%	99.559%
81.0	9.788	1.060	2276.564	.042%	99.606%
82.0	9.766	1.061	2277.625	.042%	99.652%
83.0	9.766	1.063	2278.688	.042%	99.698%
84.0	9.745	1.063	2279.751	.042%	99.745%
85.0	9.738	1.064	2280.815	.042%	99.792%
86.0	9.689	1.060	2281.875	.042%	99.838%
87.0	9.675	1.060	2282.934	.042%	99.884%
88.0	9.661	1.059	2283.993	.042%	99.931%
89.0	9.647	1.058	2285.051	.042%	99.977%
90.0	9.640	0.529	2285.579	.021%	100.000%

Zonal flux distribution table

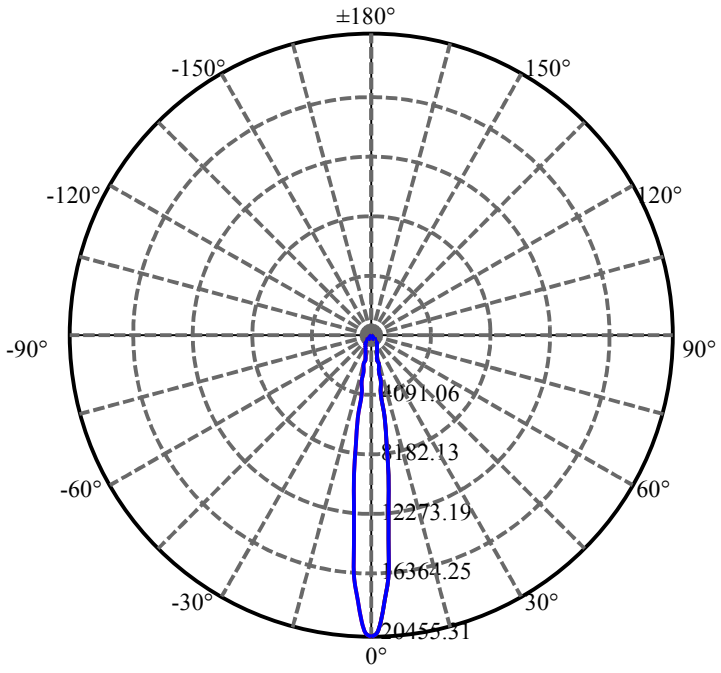
ZONAL LUMEN SUMMARY

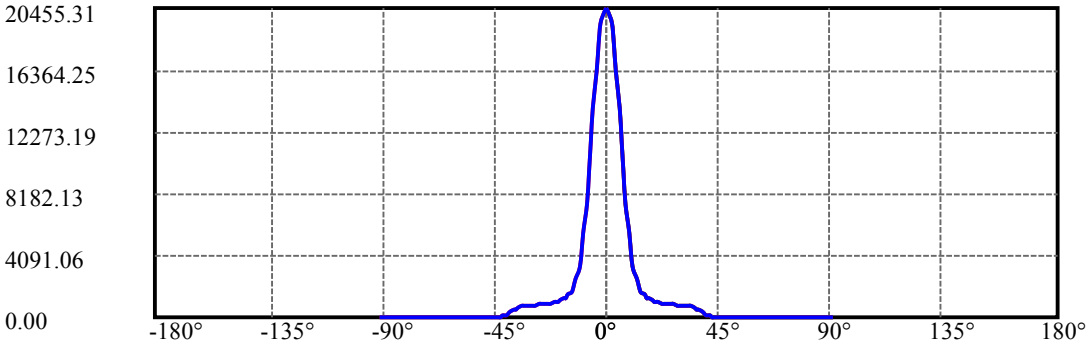
Zone	Lumens	%Lamp	%Fixt
0-30	1890.26	74.22%	82.70%
0-40	2225.21	87.37%	97.36%
0-60	2254.86	88.53%	98.66%
0-90	2285.05	89.72%	99.98%
0-120	2285.05	89.72%	99.98%
0-180	2285.58	89.74%	100.00%
60-90	31.20	1.22%	1.36%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.57	1828.46	71.79%	80.00%

ZONAL LUMEN SUMMARY

0-10	1028.63
10-20	453.79
20-30	407.84
30-40	334.95
40-50	19.46
50-60	10.20
60-70	10.17
70-80	10.47
80-90	9.55
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:13.0 Right:13.0
:C90/270Left:13.0 Right:13.0

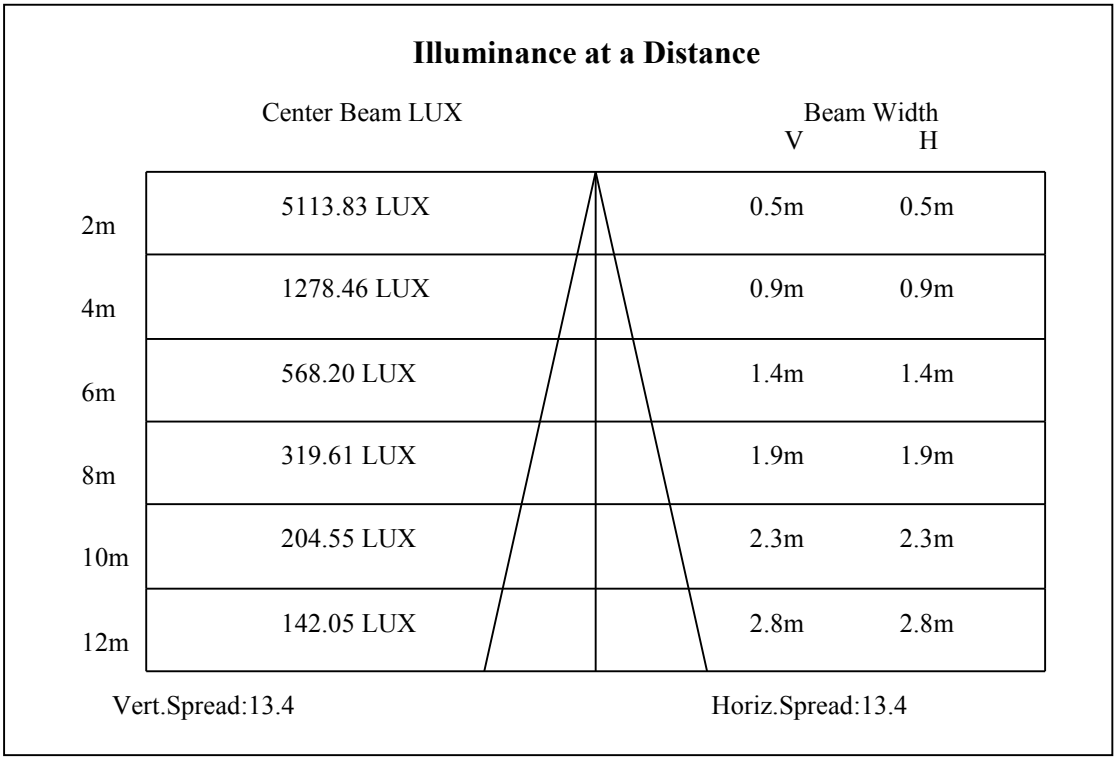
Beam Angle(50%Imax):C0/180Left:6.7 Right:6.7
:C90/270Left:6.7 Right:6.7

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/10
Humidity(%): 60.0%

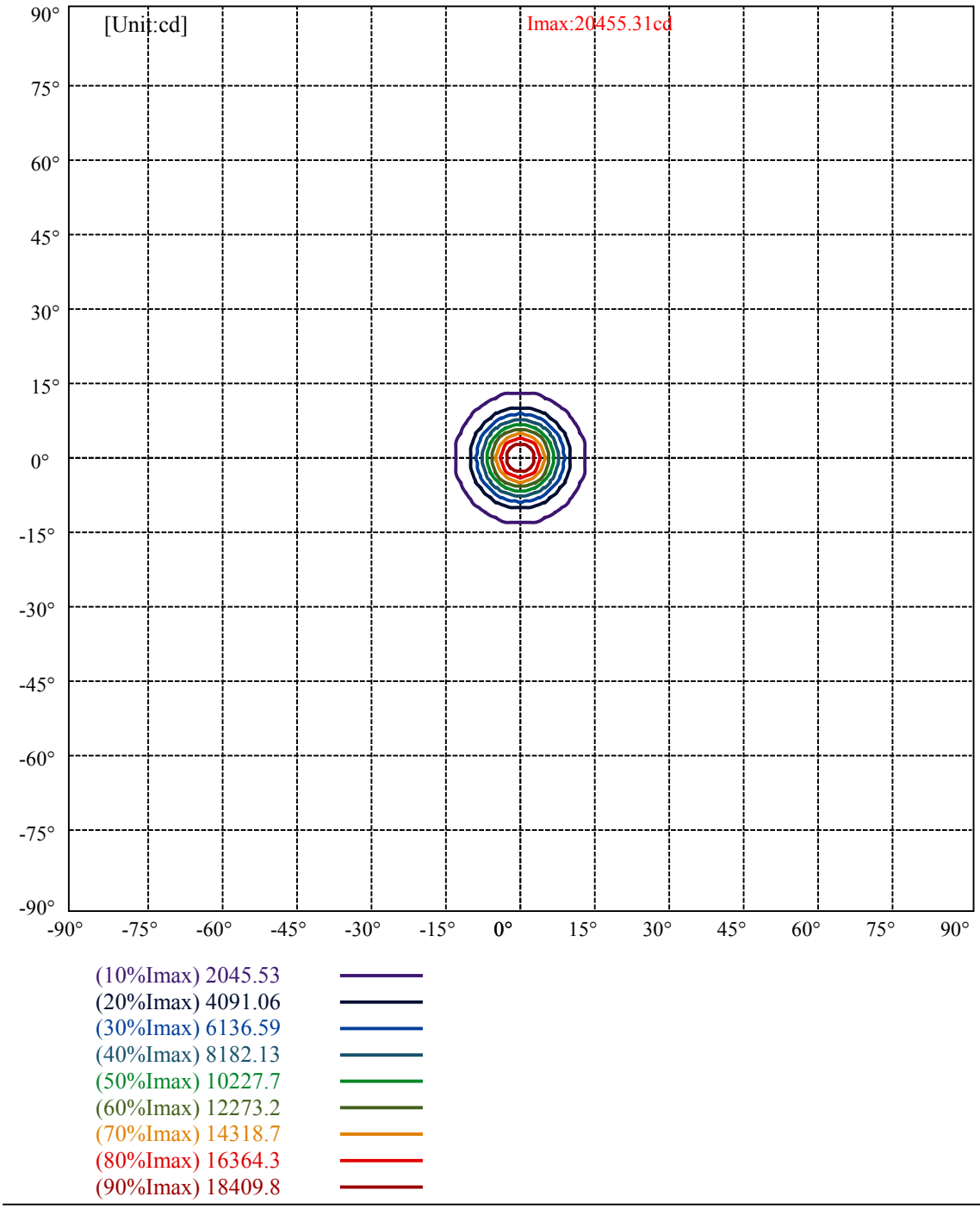
Operator: NT07
Distance(m): 7.50

Lux distance Curve



Equipment: GMS1980 Date: 2018/9/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.50

ISO-Intensity(V-H)



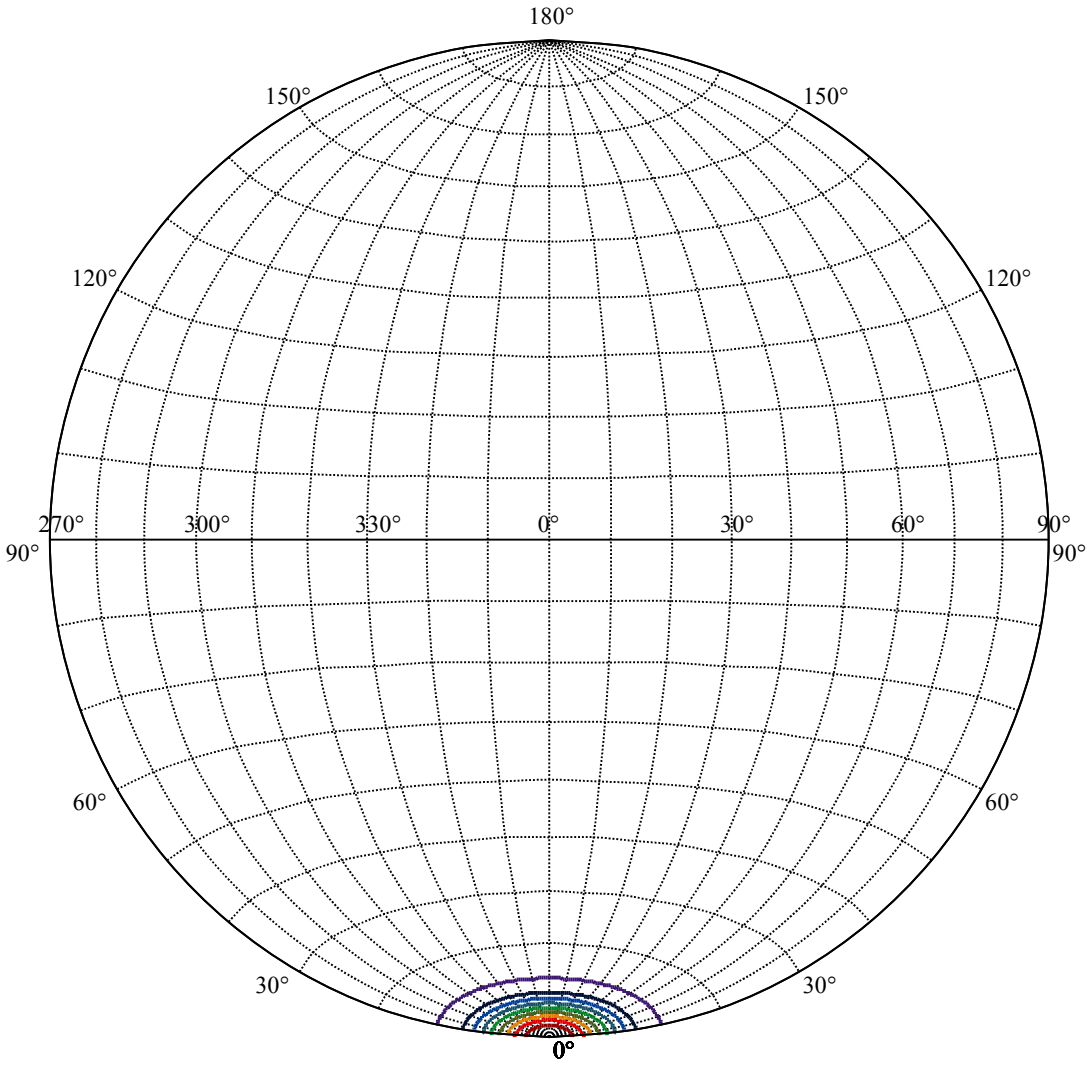
(10%Imax) 2045.53
(20%Imax) 4091.06
(30%Imax) 6136.59
(40%Imax) 8182.13
(50%Imax) 10227.7
(60%Imax) 12273.2
(70%Imax) 14318.7
(80%Imax) 16364.3
(90%Imax) 18409.8

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



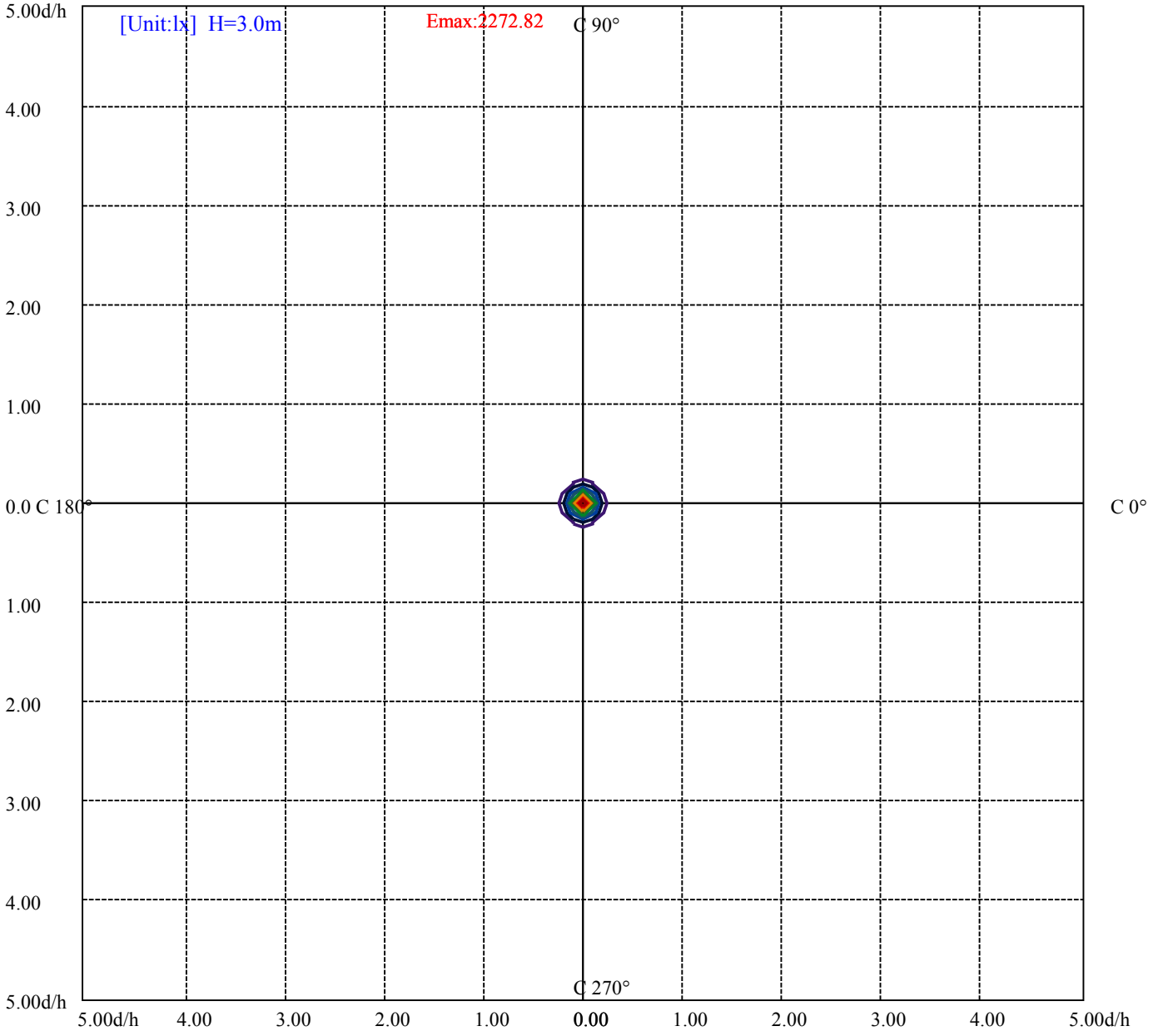
House [Unit:cd] Road

Imax:20455.31

(10%Imax) 2045.53
(20%Imax) 4091.06
(30%Imax) 6136.59
(40%Imax) 8182.13
(50%Imax) 10227.7
(60%Imax) 12273.2
(70%Imax) 14318.7
(80%Imax) 16364.3
(90%Imax) 18409.8

Equipment: GMS1980 Date: 2018/9/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.50

ISO illuminance diagram

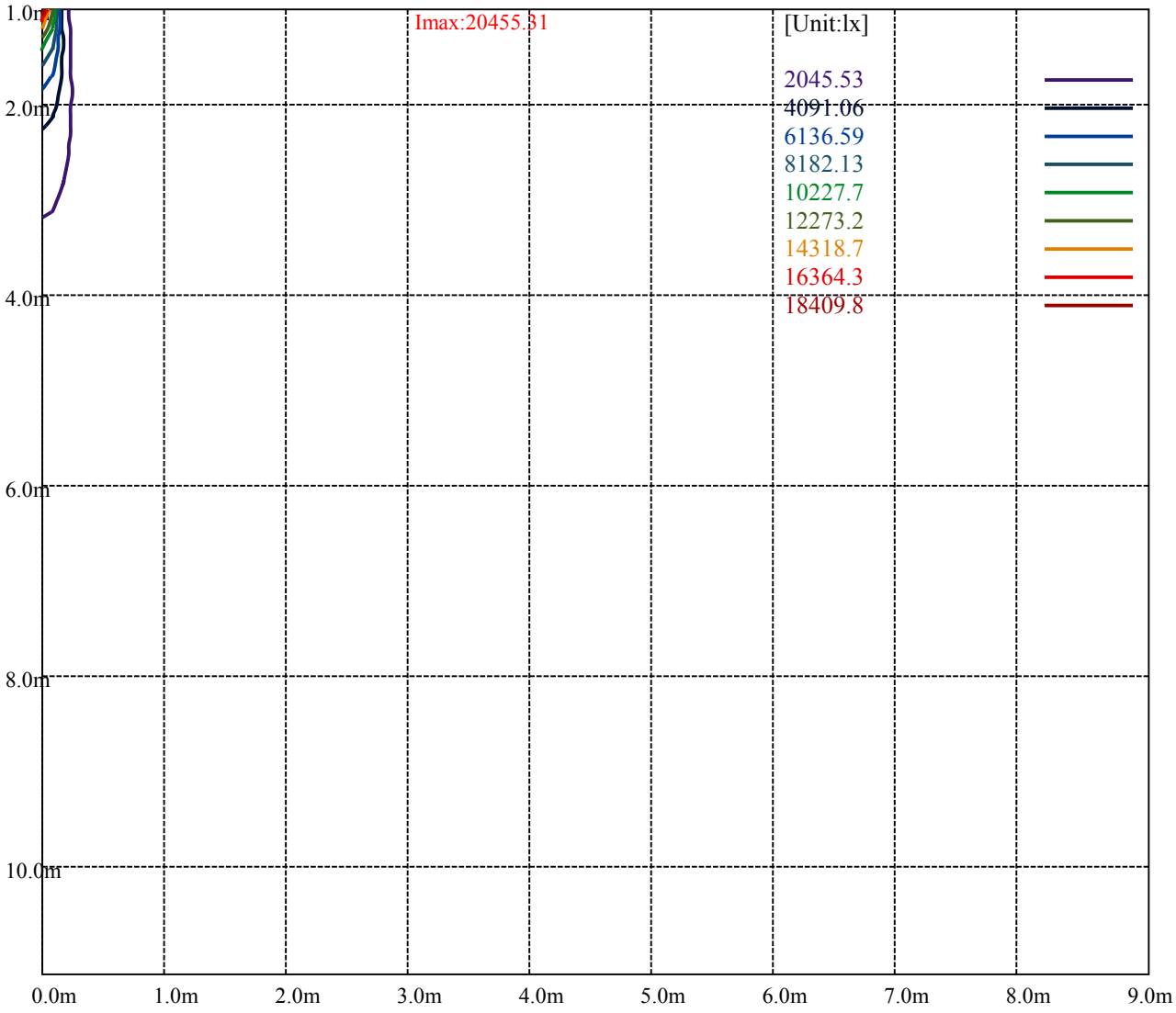


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

Nata 2-1674-M

Luminance Limitting Curve(no luminous side)

Luminance Table

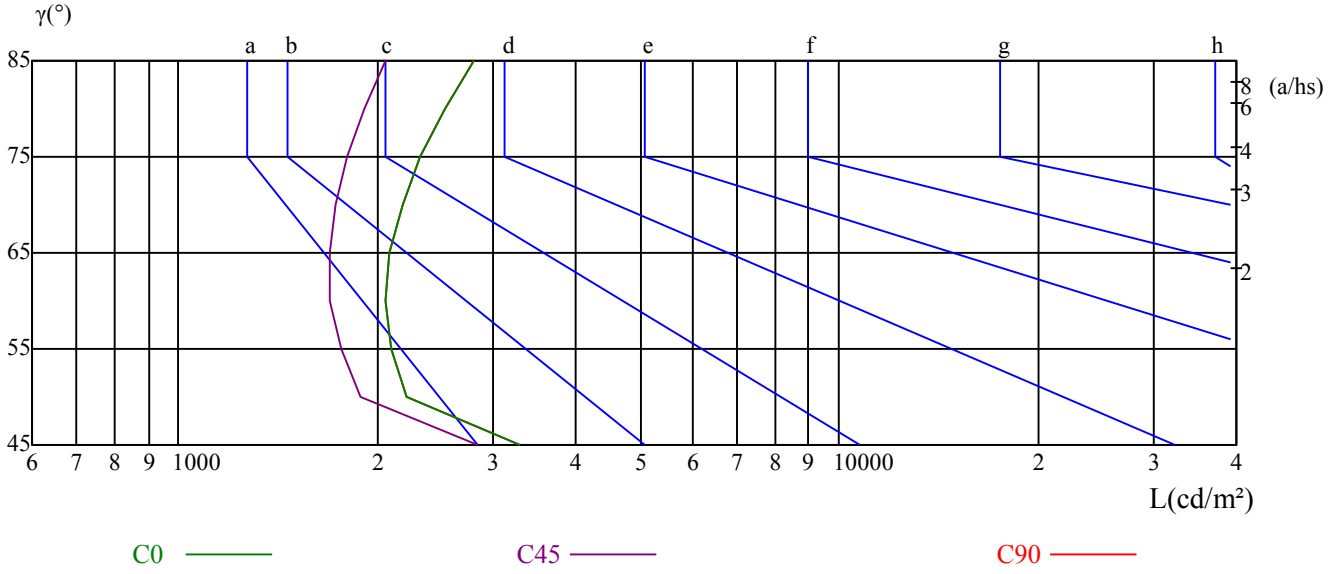
γ	45	50	55	60	65	70	75	80	85
C0	3289	2221	2103	2057	2085	2178	2324	2525	2798
C45	2844	1892	1764	1697	1689	1731	1806	1912	2054
C90	3289	2221	2103	2057	2085	2178	2324	2525	2798

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4792	4792	4792	7577	7577	7577	22165	22165	22165

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

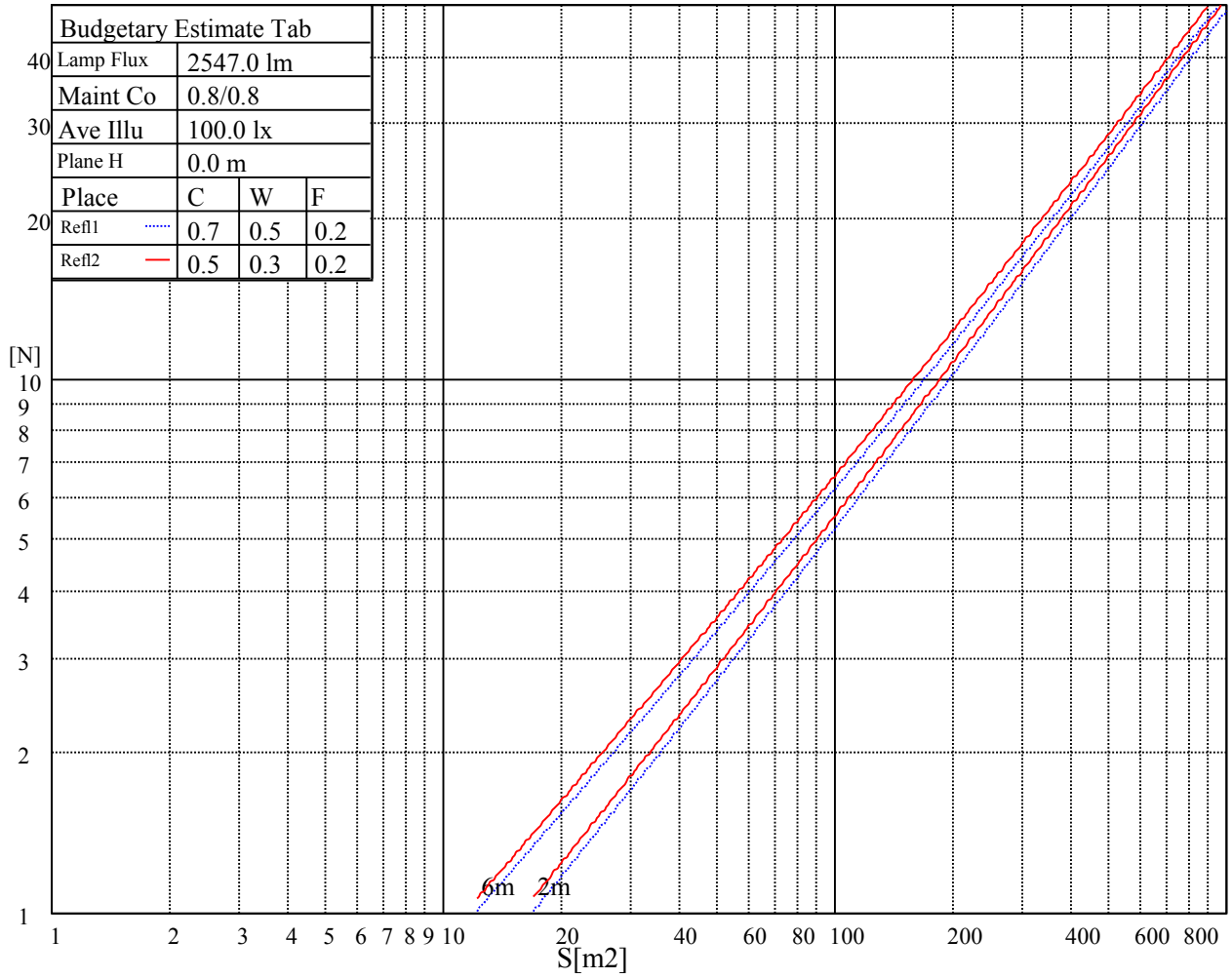
Luminance Limitting Curve



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	0.86	1.77	1.22	2.08	2.39	0.86	1.77	1.23	2.08	2.40
	3H	3.07	3.87	3.45	4.20	4.57	3.08	3.88	3.46	4.21	4.58
	4H	4.29	5.03	4.70	5.39	5.78	4.30	5.04	4.71	5.40	5.79
	6H	5.60	6.28	6.02	6.65	7.05	5.60	6.28	6.02	6.66	7.06
	8H	6.25	6.89	6.69	7.28	7.69	6.26	6.89	6.69	7.29	7.70
	12H	7.26	7.87	7.70	8.25	8.69	7.26	7.87	7.70	8.26	8.69
4H	2H	1.33	2.07	1.73	2.42	2.81	1.33	2.07	1.74	2.43	2.82
	3H	3.84	4.45	4.25	4.86	5.26	3.85	4.46	4.26	4.87	5.27
	4H	5.24	5.78	5.68	6.21	6.66	5.25	5.79	5.69	6.22	6.67
	6H	6.65	7.11	7.12	7.56	8.04	6.66	7.12	7.13	7.57	8.05
	8H	7.42	7.85	7.90	8.30	8.78	7.42	7.85	7.90	8.31	8.78
	12H	8.42	8.80	8.92	9.29	9.76	8.43	8.80	8.92	9.29	9.76
8H	4H	5.68	6.11	6.15	6.56	7.04	5.68	6.12	6.16	6.57	7.04
	6H	7.33	7.67	7.84	8.17	8.66	7.33	7.67	7.84	8.18	8.66
	8H	8.25	8.55	8.78	9.07	9.57	8.25	8.55	8.79	9.08	9.57
	12H	9.39	9.65	9.91	10.15	10.73	9.38	9.64	9.91	10.14	10.72
12H	4H	5.77	6.14	6.26	6.63	7.11	5.77	6.14	6.27	6.63	7.11
	6H	7.69	7.80	8.04	8.27	8.82	7.70	7.81	8.04	8.28	8.83
	8H	8.52	8.78	9.04	9.28	9.86	8.52	8.78	9.04	9.28	9.86
Variation with the observer position at spacings:											
S = 1.0H		5.4/-9.1					5.4/-9.1				
S = 1.5H		7.9/-7.3					7.9/-7.3				
S = 2.0H		9.6/-5.9					9.6/-5.9				
Standard tables:		BK1					BK1				
Uncorrected UGR		-1.5					-1.5				

Budgetary Estimate Table

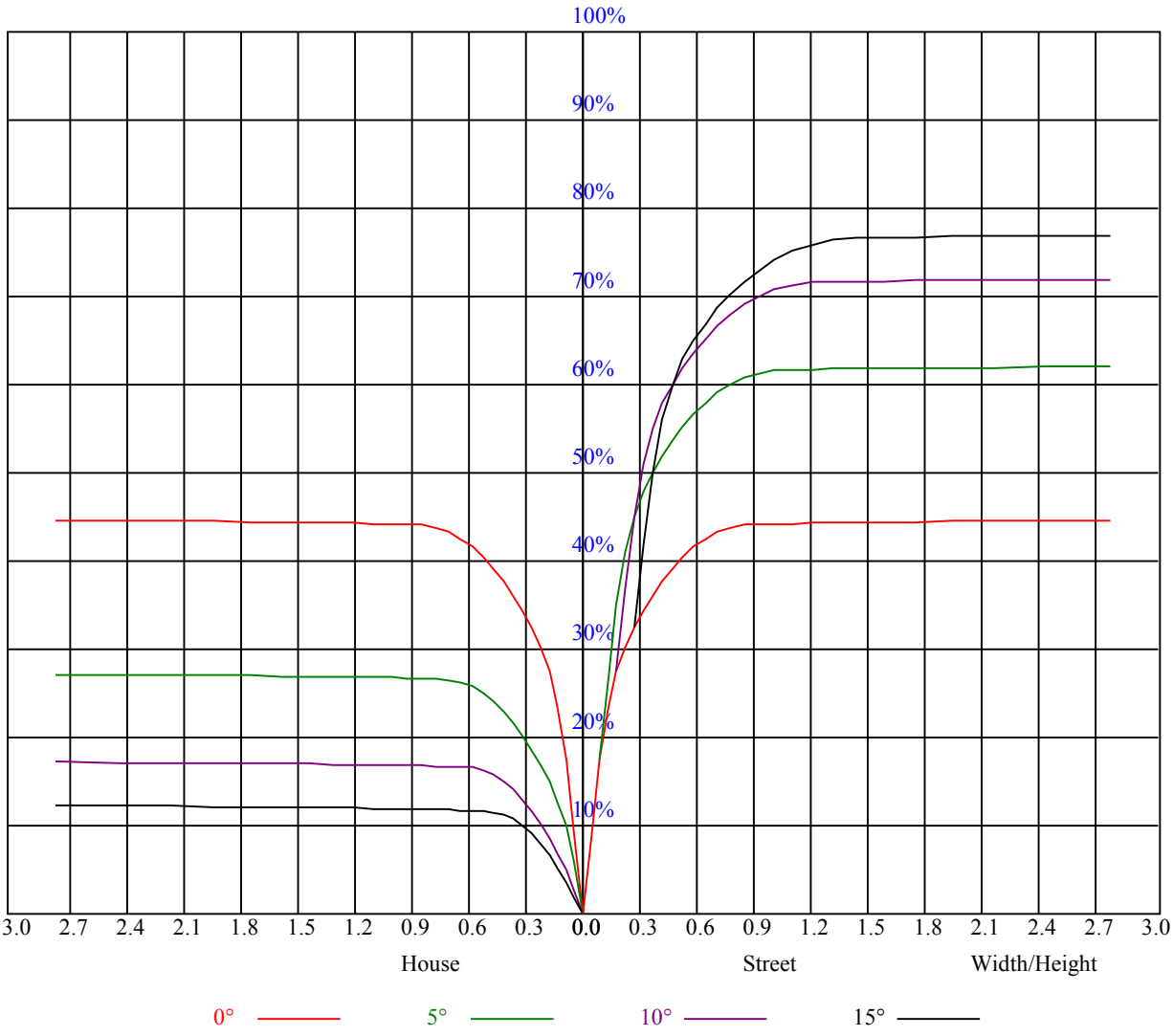


Equipment: GMS1980 Date: 2018/9/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.50

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	1.07	1.07	1.07	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
2	0.96	0.93	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.84	0.82
3	0.91	0.87	0.85	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.83	0.81	0.84	0.82	0.80	0.79
4	0.87	0.83	0.80	0.86	0.83	0.80	0.84	0.81	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
5	0.84	0.80	0.77	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	0.81	0.76	0.74	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.76	0.74	0.72	0.71
7	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.72	0.70	0.69
8	0.75	0.71	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.70	0.68	0.67
9	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.65
10	0.71	0.67	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.63

Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/10
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	20480.63	19940.63	18781.88	17308.13	15181.88	12796.88	10586.25	8190.00	6283.13
45.0	20469.38	20542.50	20036.25	18995.63	17673.75	15761.25	13494.38	11306.25	9129.38
90.0	20565.00	20368.13	19726.88	18129.38	16779.38	14917.50	11161.13	10060.88	7945.31
135.0	20306.25	20536.88	20160.00	19479.38	17893.13	16020.00	14017.50	11576.25	9416.25
180.0	20480.63	20525.63	20109.38	18900.00	17465.63	15665.63	12600.00	10830.38	8654.06
225.0	20469.38	19794.38	18691.88	16931.25	14720.63	11188.13	10379.81	7754.06	5927.63
270.0	20565.00	20210.63	19288.13	18123.75	15885.00	13516.88	11340.00	8904.38	6913.13
315.0	20306.25	19710.00	18613.13	16599.38	14568.75	10996.88	10176.75	7527.94	5688.56
360.0	20480.63	19940.63	18781.88	17308.13	15181.88	12796.88	10586.25	8190.00	6283.13

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4612.50	3403.13	2840.63	2192.63	1782.00	1554.75	1384.31	1230.75	1151.44
45.0	6676.88	5090.63	3881.25	3020.63	2518.88	1927.69	1689.19	1420.88	1281.38
90.0	6108.75	4325.06	3335.63	2642.63	2119.50	1771.88	1552.50	1369.69	1241.44
135.0	7391.25	5270.63	3988.13	3076.88	2556.56	1958.06	1689.19	1455.75	1326.38
180.0	6434.44	4656.94	3526.31	2669.63	2169.56	1794.38	1546.31	1391.06	1274.63
225.0	4462.31	3164.06	2485.13	2022.19	1689.75	1470.94	1329.19	1220.63	1117.97
270.0	5079.38	3706.88	2857.50	2510.44	1813.50	1568.81	1391.63	1239.19	1159.88
315.0	4258.13	3024.00	2388.38	1967.06	1654.88	1447.88	1307.81	1178.44	1121.68
360.0	4612.50	3403.13	2840.63	2192.63	1782.00	1554.75	1384.31	1230.75	1151.44

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1090.13	1040.63	1003.50	972.00	938.81	914.63	888.19	861.75	845.44
45.0	1193.06	1099.13	1038.94	1006.31	968.06	941.06	916.31	883.69	862.31
90.0	1117.52	1081.35	1034.21	989.78	955.07	926.33	897.98	867.26	849.43
135.0	1225.69	1140.19	1077.19	1030.50	982.69	945.56	915.75	887.06	865.13
180.0	1117.29	1105.54	1055.08	1007.55	971.44	942.19	914.96	881.27	860.23
225.0	1085.51	1027.01	995.91	958.33	925.82	901.13	875.70	850.95	831.71
270.0	1098.00	1045.69	1005.75	974.81	944.44	918.56	889.31	864.56	842.06
315.0	1061.38	1011.32	981.17	949.33	919.07	893.64	871.93	847.13	832.67
360.0	1090.13	1040.63	1003.50	972.00	938.81	914.63	888.19	861.75	845.44

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	829.69	815.06	803.81	790.31	777.38	764.44	745.88	683.44	591.75
45.0	845.44	826.31	812.25	801.00	785.81	774.56	762.75	747.00	704.25
90.0	831.09	813.38	803.53	791.49	778.16	764.83	753.64	733.33	680.57
135.0	842.06	827.44	812.81	800.44	785.81	774.56	762.75	740.81	690.19
180.0	840.21	822.88	809.38	800.55	784.52	769.39	759.49	738.17	683.61
225.0	817.71	802.01	789.30	777.99	765.11	752.01	732.04	674.66	586.52
270.0	825.19	812.25	801.00	790.31	775.13	764.44	751.50	701.44	617.06
315.0	818.72	807.86	792.34	781.26	769.05	755.94	717.36	642.15	556.71
360.0	829.69	815.06	803.81	790.31	777.38	764.44	745.88	683.44	591.75

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	499.50	402.19	293.63	187.09	108.23	44.61	24.86	22.89	20.25
45.0	634.50	542.25	434.81	336.94	288.56	140.91	67.28	26.04	22.56
90.0	593.55	493.43	399.88	295.03	193.16	110.76	48.99	21.21	19.69
135.0	617.06	520.31	412.88	316.13	291.38	126.68	56.76	24.98	21.83
180.0	595.97	494.78	401.51	295.26	191.76	109.01	48.60	23.51	21.94
225.0	483.98	385.76	275.23	175.39	94.44	43.14	24.24	22.39	20.14
270.0	527.06	420.19	311.06	287.44	130.67	59.34	26.21	23.46	21.09
315.0	452.14	341.49	245.81	149.85	73.52	32.79	24.98	22.61	20.14
360.0	499.50	402.19	293.63	187.09	108.23	44.61	24.86	22.89	20.25

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	17.49	15.08	13.61	12.94	12.60	12.32	12.09	11.87	11.64
45.0	20.64	18.11	16.14	14.96	13.33	12.77	12.49	12.26	11.98
90.0	18.06	16.03	14.68	13.44	12.54	12.26	12.04	11.76	11.59
135.0	20.03	18.11	16.65	15.36	12.88	12.60	12.32	12.15	11.87
180.0	20.19	17.83	15.69	14.46	12.83	12.54	12.32	12.04	11.81
225.0	17.72	15.58	13.11	12.54	12.26	11.93	11.70	11.48	11.36
270.0	18.90	16.31	14.68	12.99	12.60	12.26	12.04	11.87	11.59
315.0	17.55	15.58	13.39	13.05	12.71	12.43	12.15	11.93	11.70
360.0	17.49	15.08	13.61	12.94	12.60	12.32	12.09	11.87	11.64

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.42	11.25	11.08	10.97	10.80	10.69	10.52	10.46	10.35
45.0	11.81	11.59	11.42	11.25	11.14	10.97	10.86	10.74	10.63
90.0	11.42	11.25	11.14	10.97	10.86	10.74	10.63	10.46	10.41
135.0	11.70	11.53	11.36	11.19	11.08	10.91	10.80	10.63	10.46
180.0	11.64	11.48	11.31	11.19	11.03	10.86	10.69	10.52	10.41
225.0	11.19	11.03	10.86	10.74	10.63	10.46	10.46	10.35	10.29
270.0	11.42	11.31	11.08	10.97	10.86	10.69	10.52	10.41	10.29
315.0	11.53	11.31	11.19	11.08	10.86	10.69	10.52	10.41	10.29
360.0	11.42	11.25	11.08	10.97	10.80	10.69	10.52	10.46	10.35

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.29	10.24	10.18	10.13	10.07	10.07	10.01	9.96	9.96
45.0	10.52	10.41	10.35	10.29	10.18	10.18	10.18	10.13	10.07
90.0	10.35	10.29	10.24	10.18	10.13	10.07	10.07	10.01	9.96
135.0	10.41	10.35	10.29	10.24	10.18	10.13	10.07	10.07	10.01
180.0	10.35	10.29	10.24	10.18	10.13	10.07	10.07	10.01	10.01
225.0	10.24	10.18	10.13	10.13	10.07	10.01	10.01	9.96	9.96
270.0	10.24	10.24	10.13	10.13	10.07	10.01	10.01	9.96	9.96
315.0	10.24	10.13	10.13	10.07	10.07	10.01	9.96	9.96	9.90
360.0	10.29	10.24	10.18	10.13	10.07	10.07	10.01	9.96	9.96

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.90	9.90	9.90	9.84	9.84	9.84	9.84	9.79	9.79
45.0	10.07	10.01	10.01	9.96	9.96	9.90	9.96	9.90	9.90
90.0	9.96	9.96	9.90	9.90	9.84	9.84	9.79	9.79	9.79
135.0	9.96	9.96	9.96	9.90	9.84	9.84	9.79	9.79	9.79
180.0	9.96	9.90	9.90	9.90	9.90	9.84	9.79	9.79	9.79
225.0	9.90	9.90	9.90	9.90	9.84	9.84	9.84	9.84	9.84
270.0	9.90	9.84	9.90	9.84	9.84	9.79	9.79	9.79	9.79
315.0	9.90	9.84	9.84	9.84	9.79	9.79	9.79	9.73	9.73
360.0	9.90	9.90	9.90	9.84	9.84	9.84	9.84	9.79	9.79

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.79	9.79	9.79	9.79	9.73	9.68	9.68	9.68	9.62
45.0	9.90	9.90	9.90	9.90	10.01	9.79	9.68	9.62	9.62
90.0	9.79	9.73	9.73	9.73	9.73	9.68	9.68	9.68	9.68
135.0	9.79	9.73	9.73	9.68	9.73	9.68	9.68	9.68	9.62
180.0	9.73	9.73	9.73	9.73	9.68	9.68	9.68	9.68	9.68
225.0	9.84	9.84	9.84	9.73	9.68	9.68	9.68	9.68	9.62
270.0	9.73	9.73	9.73	9.73	9.68	9.68	9.68	9.68	9.68
315.0	9.73	9.68	9.68	9.68	9.68	9.68	9.68	9.62	9.68
360.0	9.79	9.79	9.79	9.79	9.73	9.68	9.68	9.68	9.62

Intensity data(cd)

C/γ(°)	90.0
0.0	9.68
45.0	9.62
90.0	9.62
135.0	9.68
180.0	9.62
225.0	9.62
270.0	9.62
315.0	9.68
360.0	9.68