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Nata

LumCAT: 4-2273-M
Luminaire: 92.70.131.00
Report No: NATA0100
Test No: GC2018091104
LampCAT: LUMINUS CXM-11-AC30
Lamp flux(lm): 2527.0
Number of Lamps: 1
Length(mm): 100
Phm Type: C

Voltage(V): 34.7000
Current(A): 0.5000
Power (W): 17.3500
PF: 1.0000
Ballast type: DC
Width(mm): 100
Height(mm): 0

Photometric Results

Lumens(lm): 2295.70
Efficiency(%): 90.85%
Lumens(lm)/Power(W): 132.85
Central intensity(cd): 38847.660
Maximum intensity(cd): 38847.660
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=9.4
[C90/270]Total=9.4
Field angle(10%Imax): [C0/180]Total=18.7
[C90/270]Total=18.7
Maximum s/h(1/2): C0_180=0.16 C90_270=0.16
Maximum s/h(1/4): C0_180=0.17 C90_270=0.17
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.21%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.278%

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2018/9/11
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.50

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	38847.656	9.294	9.294	.368%	.405%
1.0	37910.391	72.555	81.849	2.871%	3.565%
2.0	34323.047	131.358	213.207	5.198%	9.287%
3.0	29384.297	168.643	381.849	6.674%	16.633%
4.0	23305.430	178.276	560.126	7.055%	24.399%
5.0	17892.141	171.005	731.131	6.767%	31.848%
6.0	12956.344	148.514	879.646	5.877%	38.317%
7.0	9007.453	120.378	1000.024	4.764%	43.561%
8.0	6207.469	94.737	1094.761	3.749%	47.687%
9.0	4298.625	73.742	1168.503	2.918%	50.900%
10.0	3149.719	59.978	1228.481	2.373%	53.512%
11.0	2213.016	46.306	1274.787	1.832%	55.529%
12.0	1774.758	40.464	1315.251	1.601%	57.292%
13.0	1369.575	33.785	1349.036	1.337%	58.764%
14.0	1167.230	30.966	1380.002	1.225%	60.112%
15.0	1080.914	30.679	1410.681	1.214%	61.449%
16.0	1022.808	30.916	1441.597	1.223%	62.795%
17.0	986.344	31.624	1473.221	1.251%	64.173%
18.0	960.047	32.533	1505.754	1.287%	65.590%
19.0	936.070	33.420	1539.174	1.323%	67.046%
20.0	913.655	34.268	1573.441	1.356%	68.539%
21.0	892.723	35.083	1608.525	1.388%	70.067%
22.0	874.666	35.931	1644.456	1.422%	71.632%
23.0	857.236	36.731	1681.186	1.454%	73.232%
24.0	841.465	37.532	1718.718	1.485%	74.867%
25.0	828.858	38.413	1757.131	1.520%	76.540%
26.0	818.009	39.323	1796.455	1.556%	78.253%
27.0	807.961	40.224	1836.679	1.592%	80.005%
28.0	796.943	41.029	1877.708	1.624%	81.792%
29.0	786.298	41.803	1919.511	1.654%	83.613%
30.0	774.436	42.463	1961.974	1.680%	85.463%
31.0	762.989	43.093	2005.067	1.705%	87.340%
32.0	751.676	43.681	2048.748	1.729%	89.243%
33.0	727.221	43.434	2092.182	1.719%	91.135%
34.0	672.195	41.220	2133.402	1.631%	92.930%
35.0	579.586	36.455	2169.857	1.443%	94.518%
36.0	448.552	28.912	2198.769	1.144%	95.778%
37.0	339.954	22.435	2221.205	.888%	96.755%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	194.231	13.113	2234.318	.519%	97.326%
39.0	103.352	7.133	2241.451	.282%	97.637%
40.0	43.446	3.062	2244.513	.121%	97.770%
41.0	23.105	1.662	2246.175	.066%	97.843%
42.0	20.018	1.469	2247.644	.058%	97.907%
43.0	16.995	1.271	2248.915	.050%	97.962%
44.0	14.984	1.141	2250.057	.045%	98.012%
45.0	12.523	0.971	2251.028	.038%	98.054%
46.0	11.869	0.936	2251.964	.037%	98.095%
47.0	11.672	0.936	2252.9	.037%	98.136%
48.0	11.475	0.935	2253.835	.037%	98.176%
49.0	11.306	0.936	2254.771	.037%	98.217%
50.0	11.152	0.937	2255.708	.037%	98.258%
51.0	11.011	0.938	2256.646	.037%	98.299%
52.0	10.884	0.941	2257.587	.037%	98.340%
53.0	10.765	0.943	2258.529	.037%	98.381%
54.0	10.645	0.944	2259.474	.037%	98.422%
55.0	10.554	0.948	2260.422	.038%	98.463%
56.0	10.470	0.952	2261.374	.038%	98.505%
57.0	10.385	0.955	2262.329	.038%	98.546%
58.0	10.329	0.961	2263.289	.038%	98.588%
59.0	10.266	0.965	2264.254	.038%	98.630%
60.0	10.202	0.969	2265.223	.038%	98.672%
61.0	10.153	0.974	2266.197	.039%	98.715%
62.0	10.097	0.978	2267.175	.039%	98.757%
63.0	10.048	0.982	2268.156	.039%	98.800%
64.0	10.013	0.987	2269.143	.039%	98.843%
65.0	9.977	0.992	2270.135	.039%	98.886%
66.0	9.942	0.996	2271.131	.039%	98.930%
67.0	9.900	0.999	2272.13	.040%	98.973%
68.0	9.879	1.004	2273.135	.040%	99.017%
69.0	9.851	1.008	2274.143	.040%	99.061%
70.0	9.844	1.014	2275.158	.040%	99.105%
71.0	9.837	1.020	2276.178	.040%	99.150%
72.0	9.816	1.024	2277.201	.041%	99.194%
73.0	9.788	1.026	2278.228	.041%	99.239%
74.0	9.780	1.031	2279.259	.041%	99.284%
75.0	9.788	1.037	2280.295	.041%	99.329%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.795	1.042	2281.338	.041%	99.374%
77.0	9.851	1.053	2282.39	.042%	99.420%
78.0	9.942	1.066	2283.457	.042%	99.467%
79.0	10.005	1.077	2284.534	.043%	99.514%
80.0	9.984	1.078	2285.612	.043%	99.561%
81.0	9.907	1.073	2286.685	.042%	99.607%
82.0	9.830	1.067	2287.752	.042%	99.654%
83.0	9.809	1.068	2288.82	.042%	99.700%
84.0	9.773	1.066	2289.886	.042%	99.747%
85.0	9.773	1.068	2290.954	.042%	99.793%
86.0	9.703	1.061	2292.015	.042%	99.839%
87.0	9.647	1.056	2293.071	.042%	99.885%
88.0	9.598	1.052	2294.123	.042%	99.931%
89.0	9.598	1.052	2295.176	.042%	99.977%
90.0	9.591	0.526	2295.701	.021%	100.000%

Zonal flux distribution table

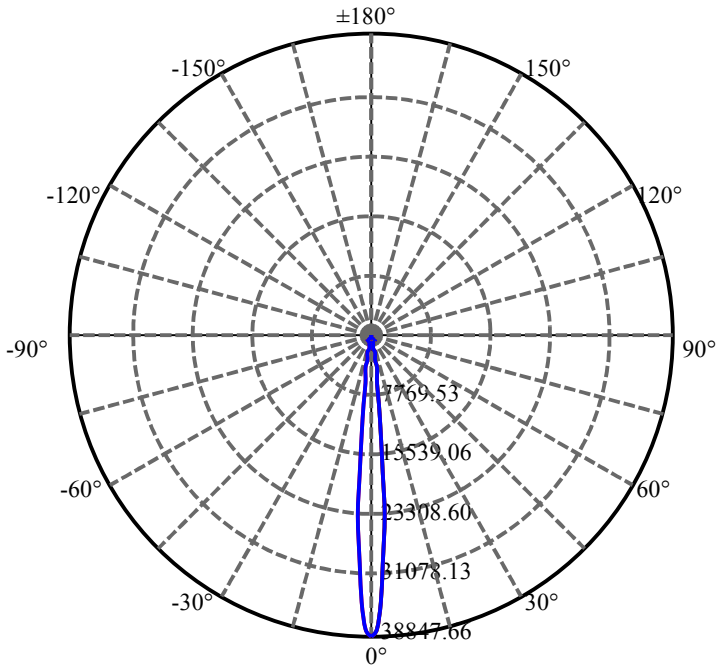
ZONAL LUMEN SUMMARY

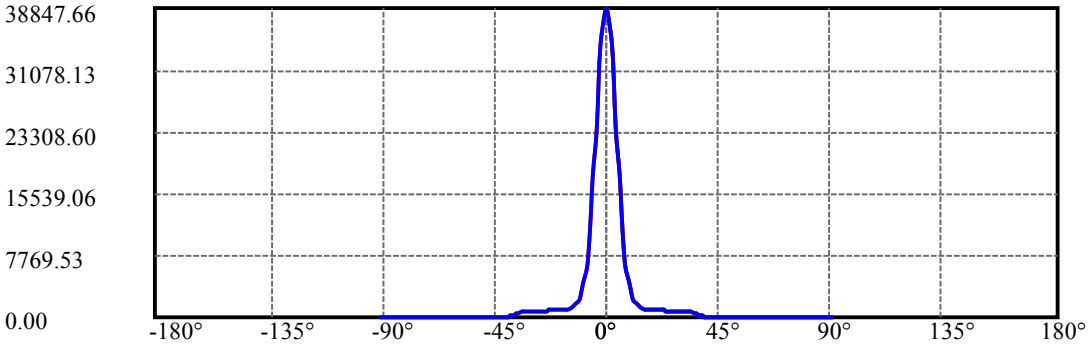
Zone	Lumens	%Lamp	%Fixt
0-30	1961.97	77.64%	85.46%
0-40	2244.51	88.82%	97.77%
0-60	2265.22	89.64%	98.67%
0-90	2295.18	90.83%	99.98%
0-120	2295.18	90.83%	99.98%
0-180	2295.70	90.85%	100.00%
60-90	30.92	1.22%	1.35%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.00	1836.56	72.68%	80.00%

ZONAL LUMEN SUMMARY

0-10	1228.48
10-20	344.96
20-30	388.53
30-40	282.54
40-50	11.19
50-60	9.52
60-70	9.93
70-80	10.45
80-90	9.56
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):

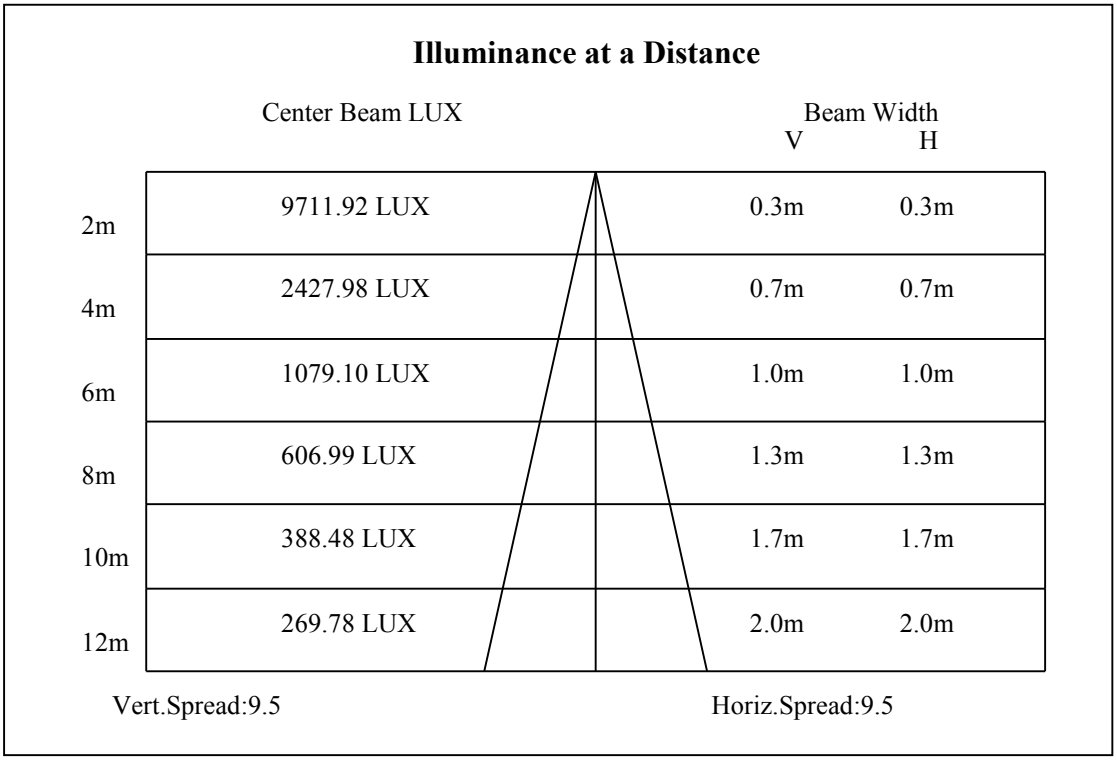
C0/C180:

C90/C270:

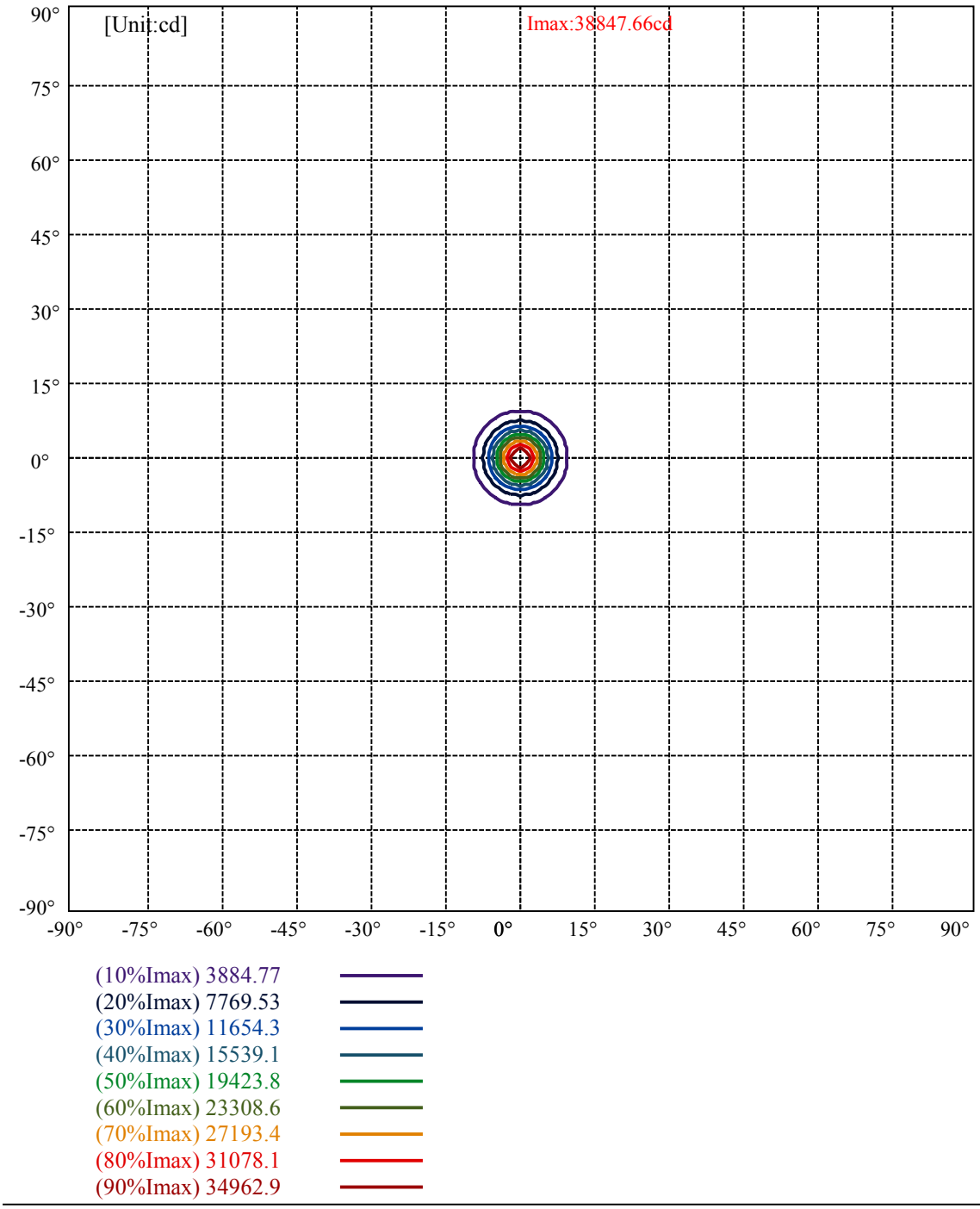
Field angle(10%Imax):C0/180Left:9.4 Right:9.4
:C90/270Left:9.4 Right:9.4

Beam Angle(50%Imax):C0/180Left:4.7 Right:4.7
:C90/270Left:4.7 Right:4.7

Lux distance Curve



ISO-Intensity(V-H)



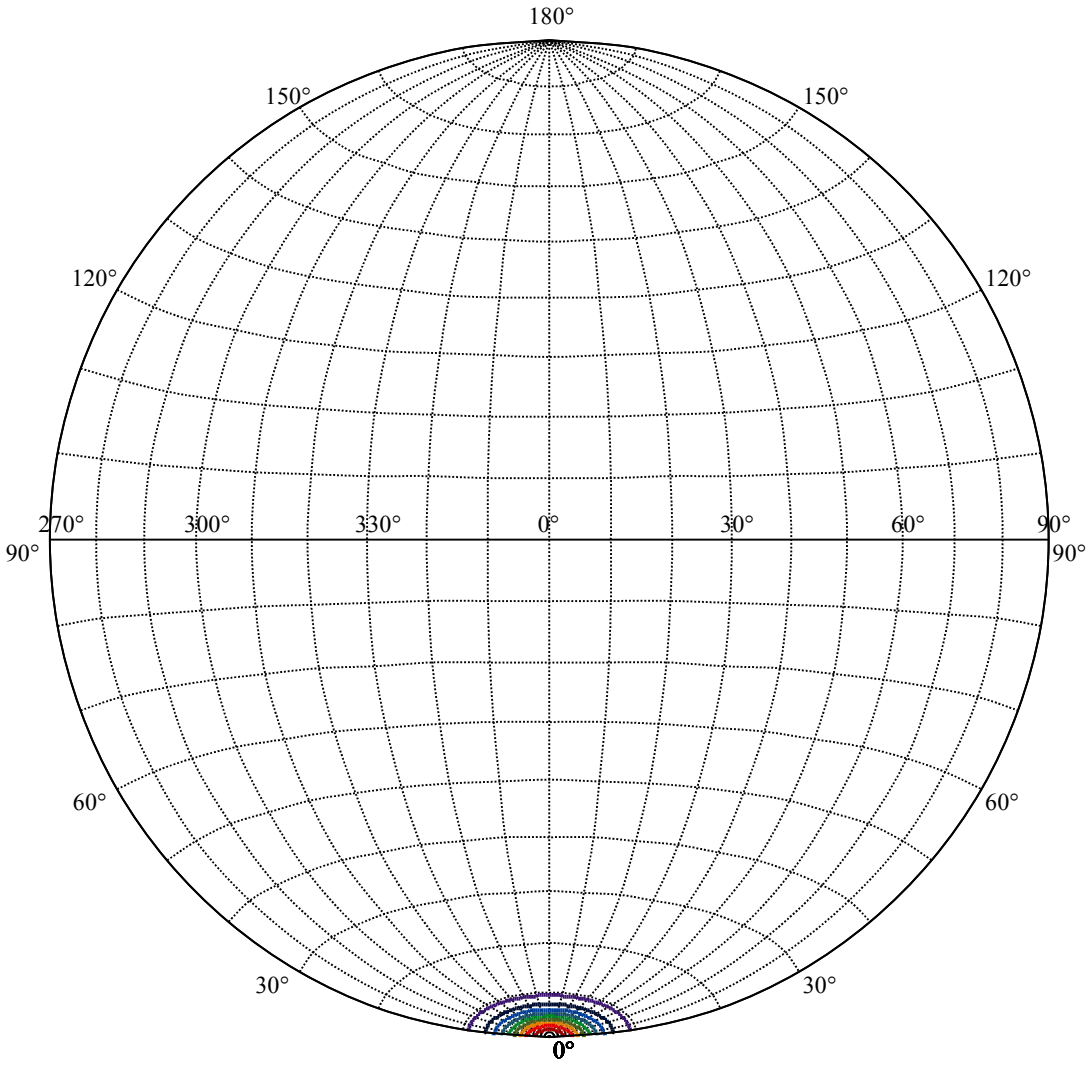
(10%Imax) 3884.77
(20%Imax) 7769.53
(30%Imax) 11654.3
(40%Imax) 15539.1
(50%Imax) 19423.8
(60%Imax) 23308.6
(70%Imax) 27193.4
(80%Imax) 31078.1
(90%Imax) 34962.9

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/11
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:38847.66

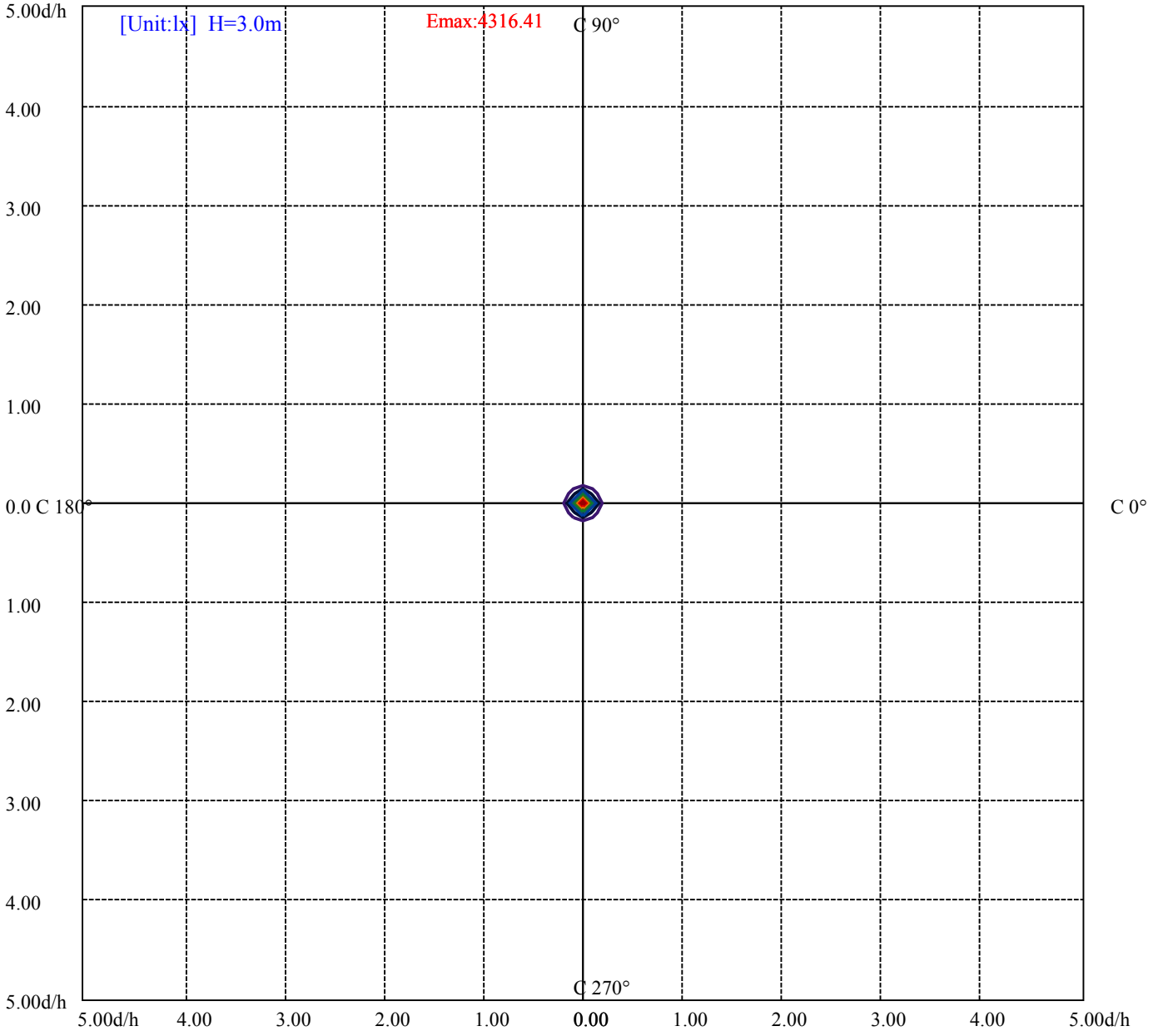
(10%Imax) 3884.77
(20%Imax) 7769.53
(30%Imax) 11654.3
(40%Imax) 15539.1
(50%Imax) 19423.8
(60%Imax) 23308.6
(70%Imax) 27193.4
(80%Imax) 31078.1
(90%Imax) 34962.9

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/11
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

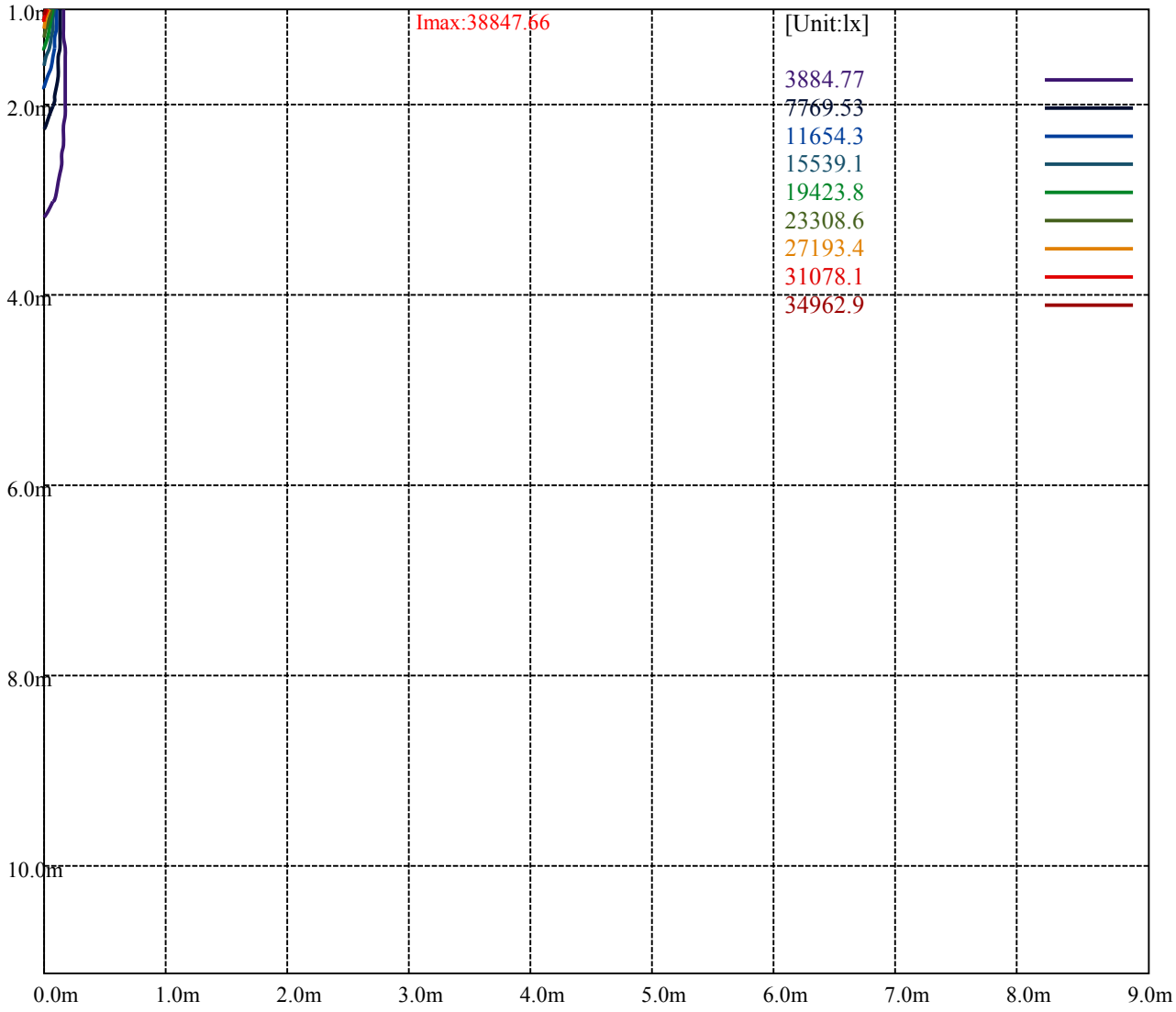
ISO illuminance diagram



(10%Emax) 431.6389
(20%Emax) 863.2778
(30%Emax) 1294.922
(40%Emax) 1726.556
(50%Emax) 2158.2
(60%Emax) 2589.833
(70%Emax) 3021.478
(80%Emax) 3453.111
(90%Emax) 3884.756

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2018/9/11
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/11
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

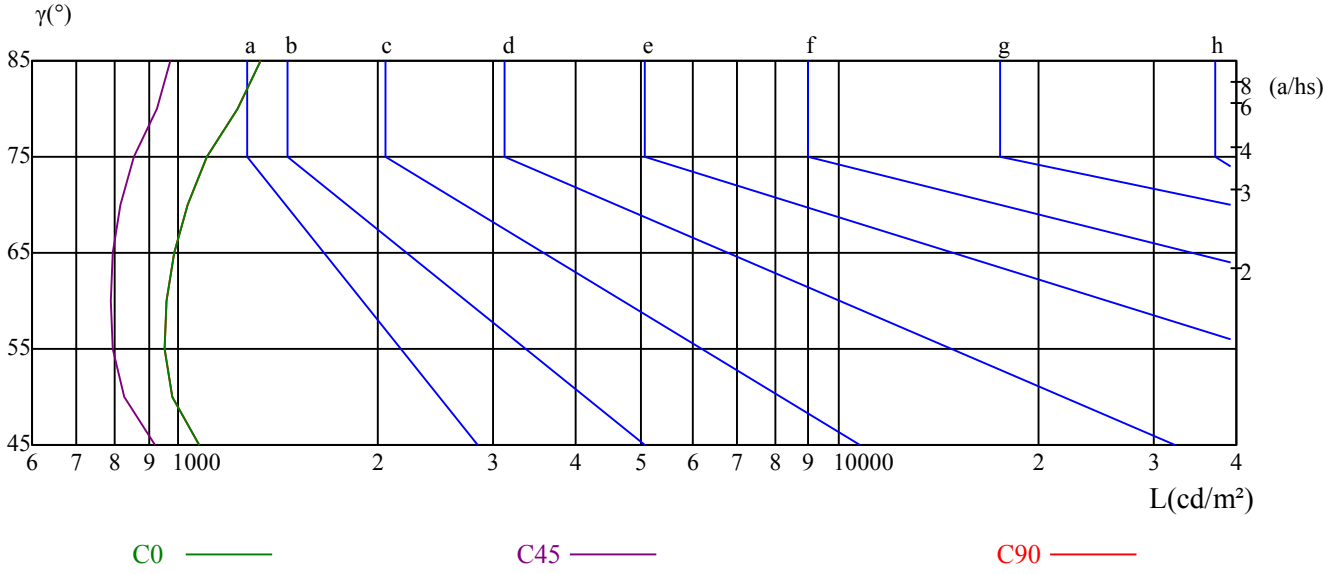
γ	45	50	55	60	65	70	75	80	85
C0	1073	978	954	960	986	1033	1104	1227	1330
C45	923	828	796	787	795	816	854	925	975
C90	1073	978	954	960	986	1033	1104	1227	1330

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2361	2361	2361	3782	3782	3782	11214	11214	11214

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

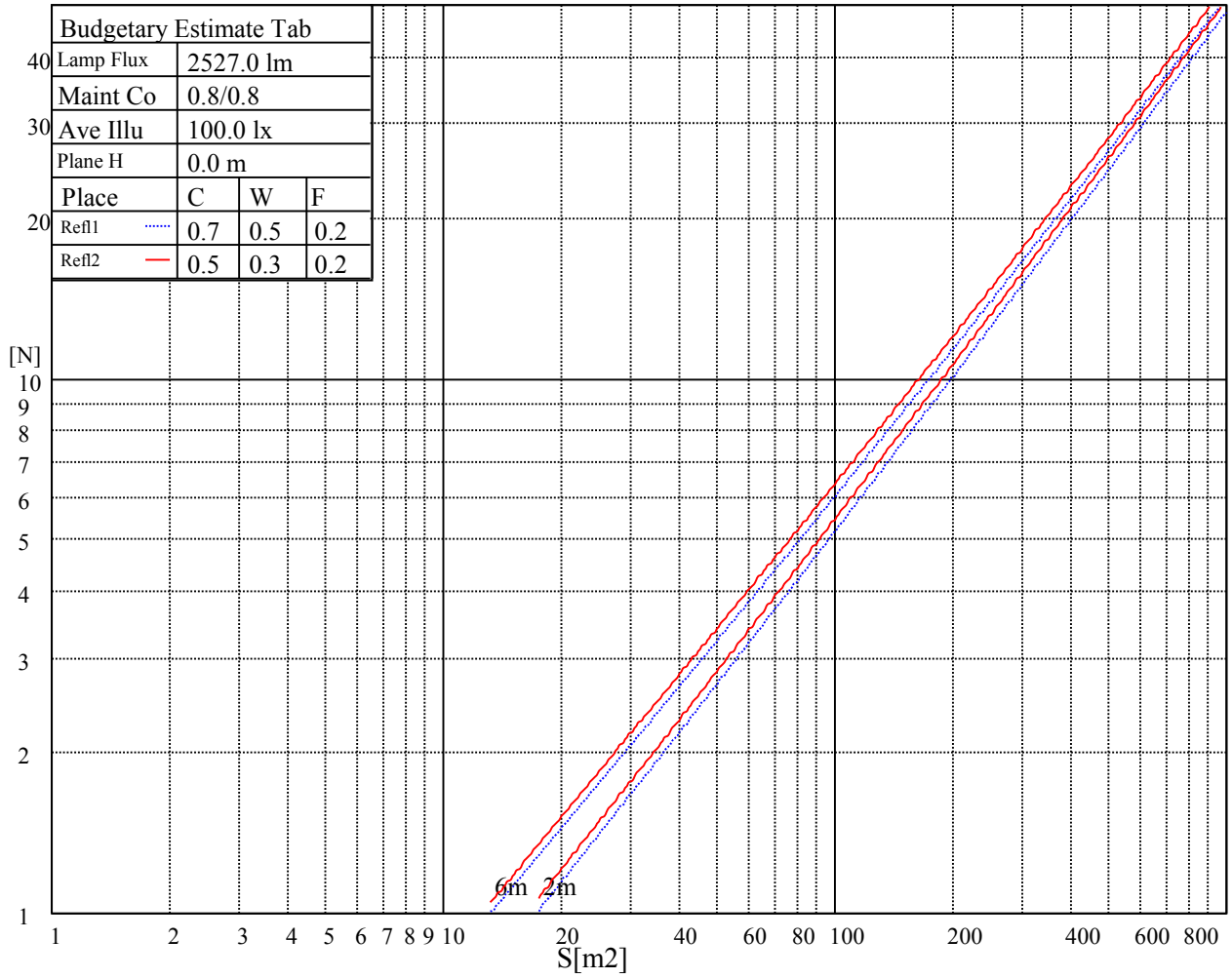


UGR Glare

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	-2.02	-1.12	-1.66	-0.81	-0.49	-2.06	-1.16	-1.70	-0.85	-0.53
	3H	0.30	1.09	0.68	1.43	1.80	0.26	1.06	0.64	1.39	1.76
	4H	1.57	2.31	1.98	2.66	3.06	1.52	2.26	1.93	2.61	3.01
	6H	2.96	3.63	3.38	4.01	4.41	2.89	3.57	3.31	3.94	4.34
	8H	3.64	4.27	4.08	4.67	5.08	3.57	4.20	4.01	4.60	5.01
	12H	4.67	5.27	5.11	5.66	6.09	4.61	5.21	5.04	5.59	6.03
4H	2H	-1.52	-0.79	-1.12	-0.43	-0.04	-1.56	-0.82	-1.15	-0.46	-0.07
	3H	1.09	1.70	1.51	2.11	2.51	1.06	1.67	1.48	2.08	2.48
	4H	2.54	3.08	2.98	3.51	3.96	2.50	3.04	2.94	3.47	3.92
	6H	4.02	4.48	4.49	4.93	5.41	3.96	4.42	4.43	4.87	5.35
	8H	4.81	5.24	5.29	5.70	6.17	4.76	5.19	5.23	5.64	6.11
	12H	5.84	6.20	6.33	6.69	7.17	5.78	6.15	6.27	6.64	7.12
8H	4H	3.00	3.43	3.48	3.88	4.36	2.96	3.39	3.44	3.85	4.32
	6H	4.72	5.06	5.23	5.56	6.05	4.67	5.01	5.18	5.51	6.00
	8H	5.67	5.96	6.20	6.49	6.99	5.61	5.91	6.15	6.44	6.94
	12H	6.81	7.06	7.33	7.56	8.15	6.76	7.02	7.29	7.52	8.10
12H	4H	3.09	3.46	3.59	3.95	4.43	3.06	3.43	3.56	3.92	4.40
	6H	5.09	5.20	5.43	5.67	6.22	5.04	5.15	5.39	5.63	6.18
	8H	5.94	6.20	6.46	6.69	7.28	5.89	6.15	6.42	6.65	7.23

Variation with the observer position at spacings:		
S = 1.0H	5.8/-8.9	5.8/-8.9
S = 1.5H	8.3/-6.9	8.3/-6.9
S = 2.0H	9.9/-5.5	9.9/-5.5
Standard tables:	BK1	BK1
Uncorrected UGR	-4.5	-4.5

Budgetary Estimate Table

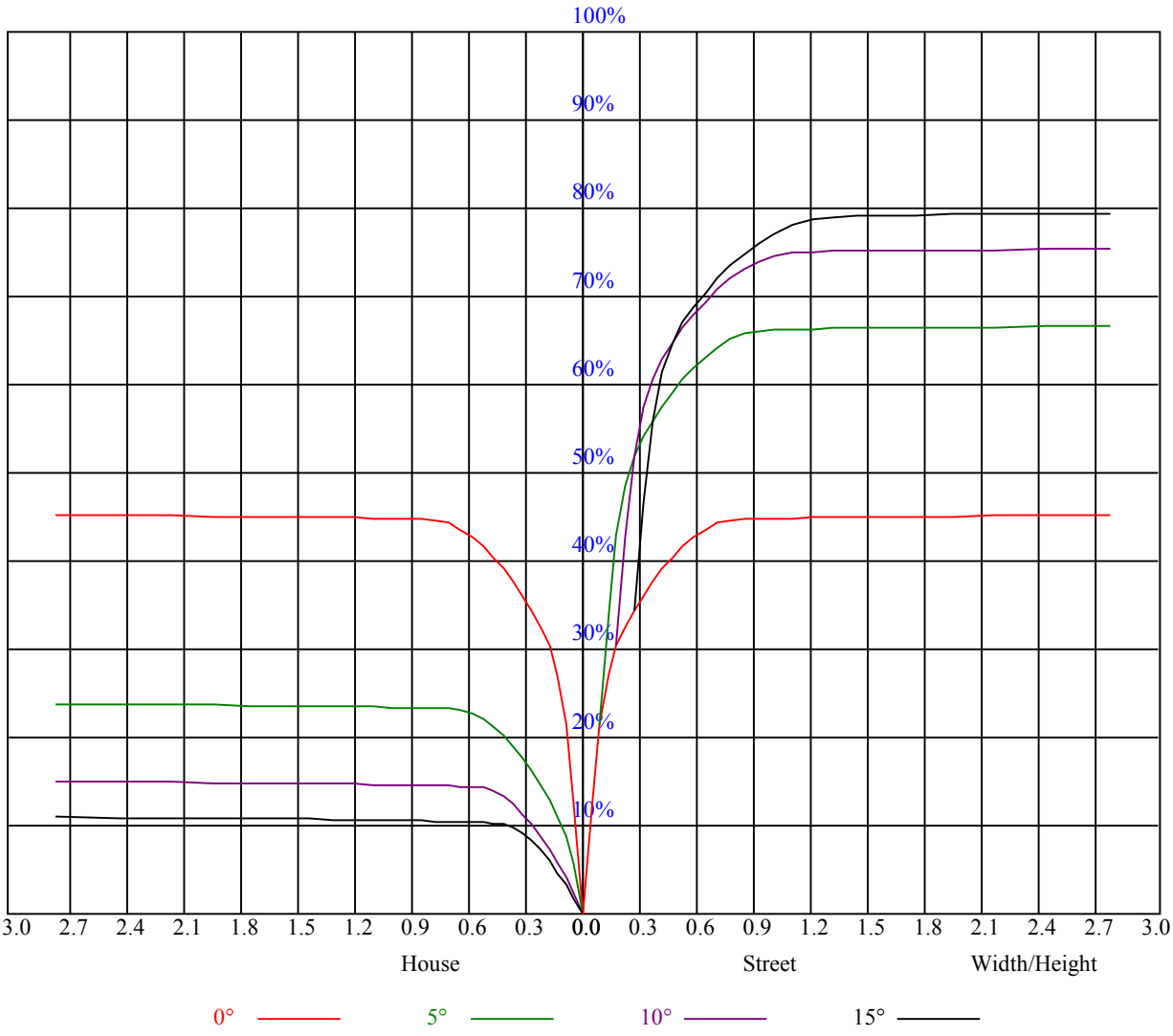


Equipment: GMS1980 Date: 2018/9/11 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.50

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	1.09	1.09	1.09	1.06	1.06	1.06	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	0.99	1.00	0.99	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.89	0.87
2	0.97	0.94	0.92	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.89	0.87	0.88	0.87	0.85	0.84
3	0.93	0.90	0.87	0.92	0.89	0.86	0.90	0.87	0.85	0.88	0.85	0.84	0.86	0.84	0.82	0.81
4	0.90	0.86	0.83	0.89	0.85	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.84	0.81	0.80	0.79
5	0.86	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
6	0.84	0.80	0.77	0.83	0.79	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.74
7	0.81	0.77	0.75	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
8	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.71
9	0.77	0.73	0.71	0.76	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.74	0.72	0.70	0.69
10	0.75	0.71	0.69	0.75	0.71	0.69	0.74	0.71	0.69	0.73	0.71	0.69	0.73	0.70	0.68	0.68

Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/11
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	39667.50	36483.75	31145.63	24513.75	18478.13	13342.50	8718.75	6260.63	4449.38
45.0	38722.50	40578.75	39172.50	35465.63	30470.63	23011.88	17150.63	12155.63	8128.13
90.0	39526.88	41186.25	39948.75	35550.00	30178.13	23360.63	16616.25	11034.56	7292.25
135.0	37473.75	40601.25	41101.88	38396.25	33665.63	27978.75	20401.88	14731.88	10265.63
180.0	39667.50	40516.88	38683.13	34188.75	27478.13	22336.88	16633.13	10801.69	7602.75
225.0	38722.50	35010.00	28771.88	22944.38	17263.13	10518.19	8564.06	5878.69	4173.75
270.0	39526.88	35853.75	29643.75	23760.00	17926.88	12510.00	8600.63	6210.00	4291.88
315.0	37473.75	33052.50	26116.88	20255.63	10982.81	10078.31	6965.44	4986.56	3456.00
360.0	39667.50	36483.75	31145.63	24513.75	18478.13	13342.50	8718.75	6260.63	4449.38

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2941.88	2491.88	1711.69	1363.50	1181.81	1086.75	1027.69	990.00	961.88
45.0	5535.00	3898.13	2891.25	2019.38	1552.50	1257.75	1125.56	1040.06	1000.13
90.0	5346.56	3560.06	2370.94	1887.75	1476.56	1113.58	1101.94	1032.98	994.84
135.0	6598.13	4668.75	3285.00	2891.25	1729.13	1432.13	1184.63	1082.25	1028.25
180.0	5398.88	3661.31	2567.81	1968.19	1559.25	1202.63	1118.53	1047.83	1006.82
225.0	2924.44	2144.25	1616.63	1348.88	1112.23	1084.11	1027.91	997.09	970.26
270.0	3054.38	2846.25	1762.88	1445.06	1233.00	1110.38	1051.88	1014.75	981.00
315.0	2589.75	1927.13	1497.94	1274.06	1112.12	1050.53	1009.18	977.51	947.59
360.0	2941.88	2491.88	1711.69	1363.50	1181.81	1086.75	1027.69	990.00	961.88

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	938.25	920.81	900.56	879.75	862.31	846.00	832.50	821.25	811.13
45.0	977.63	954.56	935.44	920.81	903.94	877.50	857.25	841.50	827.44
90.0	967.28	940.89	922.67	903.66	885.99	868.78	847.74	833.34	822.54
135.0	996.19	968.63	943.88	919.13	894.38	874.13	854.44	842.06	830.25
180.0	979.26	952.99	928.52	898.20	877.16	857.64	845.16	829.69	819.79
225.0	940.44	918.56	898.20	875.93	858.88	846.45	831.88	821.98	812.31
270.0	954.56	929.81	898.88	880.31	865.69	852.75	839.25	827.44	817.31
315.0	926.78	902.31	881.10	864.00	848.98	834.64	823.50	813.60	803.31
360.0	938.25	920.81	900.56	879.75	862.31	846.00	832.50	821.25	811.13

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	800.44	788.06	777.94	766.13	753.75	744.19	723.38	619.31	494.44
45.0	815.63	809.44	799.31	787.50	775.69	765.56	753.75	743.06	685.69
90.0	812.19	803.31	794.64	782.38	771.47	759.54	749.19	737.21	680.23
135.0	821.25	811.13	803.25	790.88	777.38	767.25	754.88	745.31	725.06
180.0	811.24	803.59	792.51	777.66	767.93	754.37	744.69	735.13	682.59
225.0	801.84	787.56	773.61	762.41	752.51	741.21	704.64	610.71	487.18
270.0	807.19	794.25	782.44	770.06	757.13	749.81	724.50	637.31	501.19
315.0	793.91	778.22	766.69	758.48	748.07	731.48	662.74	549.51	380.31
360.0	800.44	788.06	777.94	766.13	753.75	744.19	723.38	619.31	494.44

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	343.13	293.06	79.93	24.24	22.11	19.91	16.54	14.06	12.15
45.0	585.56	457.31	294.75	153.90	62.10	26.33	24.19	21.21	18.51
90.0	553.05	423.90	292.16	137.87	48.99	25.03	22.50	19.80	17.04
135.0	632.81	513.00	380.25	298.13	99.17	32.18	24.47	22.05	19.13
180.0	560.42	430.03	280.80	143.61	51.81	24.69	22.61	19.07	16.14
225.0	315.51	187.26	82.41	23.46	21.66	19.18	16.09	13.33	12.15
270.0	351.00	284.63	97.59	23.91	21.71	19.80	17.61	13.95	12.49
315.0	246.94	130.44	45.96	21.71	20.03	17.72	16.14	12.49	12.26
360.0	343.13	293.06	79.93	24.24	22.11	19.91	16.54	14.06	12.15

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	11.76	11.59	11.42	11.25	11.08	10.91	10.80	10.69	10.58
45.0	12.15	11.93	11.70	11.53	11.36	11.19	11.08	10.97	10.86
90.0	12.38	12.04	11.87	11.64	11.48	11.36	11.19	11.03	10.91
135.0	15.86	12.26	12.04	11.81	11.64	11.48	11.31	11.19	11.03
180.0	12.04	11.81	11.59	11.42	11.31	11.14	11.03	10.91	10.74
225.0	11.81	11.64	11.42	11.25	11.08	10.91	10.74	10.69	10.58
270.0	12.21	11.93	11.76	11.53	11.31	11.19	11.03	10.86	10.74
315.0	11.98	11.76	11.59	11.36	11.19	11.03	10.91	10.74	10.69
360.0	11.76	11.59	11.42	11.25	11.08	10.91	10.80	10.69	10.58

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	10.52	10.41	10.29	10.24	10.24	10.18	10.07	10.07	10.01
45.0	10.69	10.63	10.52	10.46	10.41	10.35	10.29	10.24	10.18
90.0	10.80	10.69	10.58	10.52	10.41	10.35	10.29	10.24	10.18
135.0	10.86	10.74	10.69	10.58	10.52	10.41	10.35	10.29	10.24
180.0	10.63	10.58	10.46	10.41	10.29	10.24	10.18	10.13	10.07
225.0	10.46	10.41	10.35	10.24	10.24	10.18	10.13	10.07	10.01
270.0	10.63	10.52	10.46	10.35	10.29	10.24	10.18	10.13	10.07
315.0	10.58	10.46	10.41	10.29	10.24	10.18	10.13	10.07	10.01
360.0	10.52	10.41	10.29	10.24	10.24	10.18	10.07	10.07	10.01

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.96	9.96	9.90	9.90	9.84	9.79	9.79	9.79	9.79
45.0	10.13	10.07	10.07	10.01	9.96	9.96	9.96	9.90	9.90
90.0	10.13	10.07	10.01	9.96	9.96	9.90	9.84	9.90	9.84
135.0	10.18	10.07	10.07	10.01	9.96	9.96	9.90	9.90	9.90
180.0	10.01	10.01	9.96	9.96	9.84	9.84	9.84	9.79	9.79
225.0	10.01	9.96	9.96	9.90	9.90	9.84	9.84	9.84	9.84
270.0	10.01	10.01	9.96	9.90	9.90	9.90	9.84	9.84	9.84
315.0	9.96	9.96	9.90	9.90	9.84	9.84	9.79	9.79	9.79
360.0	9.96	9.96	9.90	9.90	9.84	9.79	9.79	9.79	9.79

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.73	9.73	9.73	9.73	9.73	9.73	9.79	10.01	10.01
45.0	9.90	9.84	9.84	9.84	9.84	9.90	9.96	9.96	10.07
90.0	9.79	9.79	9.79	9.79	9.73	9.73	9.68	9.68	9.68
135.0	9.84	9.79	9.79	9.79	9.73	9.73	9.73	9.73	9.68
180.0	9.79	9.73	9.73	9.73	9.73	9.73	9.73	9.73	9.73
225.0	9.84	9.79	9.79	9.79	9.79	9.79	9.79	9.79	9.79
270.0	9.84	9.84	9.79	9.84	9.90	10.01	10.18	10.29	10.41
315.0	9.79	9.79	9.79	9.79	9.90	10.18	10.69	10.86	10.52
360.0	9.73	9.73	9.73	9.73	9.73	9.73	9.79	10.01	10.01

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.84	9.68	9.68	9.68	9.68	9.68	9.56	9.56	9.62
45.0	10.07	9.96	9.90	9.84	9.84	9.73	9.68	9.62	9.62
90.0	9.68	9.68	9.73	9.68	9.68	9.62	9.62	9.62	9.62
135.0	9.68	9.68	9.68	9.68	9.73	9.73	9.73	9.62	9.56
180.0	9.73	9.73	9.73	9.79	9.79	9.79	9.79	9.56	9.56
225.0	9.84	9.90	9.90	9.79	9.73	9.62	9.62	9.62	9.62
270.0	10.29	10.07	9.96	9.90	9.90	9.79	9.62	9.62	9.62
315.0	10.13	9.96	9.90	9.84	9.84	9.68	9.56	9.56	9.56
360.0	9.84	9.68	9.68	9.68	9.68	9.68	9.56	9.56	9.62

Intensity data(cd)

C/γ(°)	90.0
0.0	9.56
45.0	9.62
90.0	9.62
135.0	9.62
180.0	9.56
225.0	9.56
270.0	9.62
315.0	9.56
360.0	9.56