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Nata

LumCAT: 3-2033-M
Luminaire: 92.70.131.00
Report No: NATA0100
Test No: GC2018091017
LampCAT: LUMINUS CXM-11-AC30
Lamp flux(lm): 2547.0
Number of Lamps: 1
Length(mm): 79
Phm Type: C

Voltage(V): 34.6000
Current(A): 0.5000
Power (W): 17.3000
PF: 0.0000
Ballast type: DC
Width(mm): 79
Height(mm):0

Photometric Results

Lumens(lm): 2282.11
Efficiency(%): 89.60%
Lumens(lm)/Power(W): 132.23
Central intensity(cd): 23270.620
Maximum intensity(cd): 23270.620
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=24.7
[C90/270]Total=24.7
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(%): 89.82%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.414%

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2018/9/10
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	23270.625	5.567	5.567	.219%	.244%
1.0	22926.797	43.878	49.446	1.723%	2.167%
2.0	21651.328	82.862	132.308	3.253%	5.798%
3.0	19831.641	113.818	246.126	4.469%	10.785%
4.0	17670.234	135.169	381.295	5.307%	16.708%
5.0	14736.164	140.842	522.137	5.530%	22.880%
6.0	12517.523	143.484	665.621	5.633%	29.167%
7.0	9899.227	132.296	797.918	5.194%	34.964%
8.0	7730.297	117.979	915.896	4.632%	40.134%
9.0	5837.203	100.136	1016.032	3.932%	44.522%
10.0	4349.461	82.824	1098.856	3.252%	48.151%
11.0	3338.508	69.856	1168.712	2.743%	51.212%
12.0	2471.484	56.349	1225.061	2.212%	53.681%
13.0	2064.727	50.933	1275.995	2.000%	55.913%
14.0	1677.867	44.513	1320.508	1.748%	57.864%
15.0	1468.336	41.675	1362.182	1.636%	59.690%
16.0	1309.247	39.574	1401.756	1.554%	61.424%
17.0	1207.765	38.723	1440.479	1.520%	63.121%
18.0	1108.673	37.570	1478.049	1.475%	64.767%
19.0	1058.934	37.806	1515.855	1.484%	66.424%
20.0	1006.657	37.756	1553.611	1.482%	68.078%
21.0	963.457	37.863	1591.474	1.487%	69.737%
22.0	930.270	38.215	1629.689	1.500%	71.412%
23.0	900.703	38.593	1668.283	1.515%	73.103%
24.0	874.406	39.001	1707.284	1.531%	74.812%
25.0	854.016	39.579	1746.863	1.554%	76.546%
26.0	837.141	40.243	1787.106	1.580%	78.309%
27.0	819.401	40.794	1827.9	1.602%	80.097%
28.0	806.203	41.505	1869.405	1.630%	81.916%
29.0	793.188	42.170	1911.575	1.656%	83.764%
30.0	781.137	42.830	1954.405	1.682%	85.640%
31.0	769.402	43.455	1997.86	1.706%	87.545%
32.0	743.189	43.188	2041.048	1.696%	89.437%
33.0	694.547	41.482	2082.53	1.629%	91.255%
34.0	626.379	38.411	2120.941	1.508%	92.938%
35.0	532.048	33.465	2154.406	1.314%	94.404%
36.0	414.000	26.685	2181.091	1.048%	95.574%
37.0	326.827	21.569	2202.661	.847%	96.519%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	202.739	13.688	2216.348	.537%	97.119%
39.0	116.494	8.039	2224.388	.316%	97.471%
40.0	62.480	4.404	2228.792	.173%	97.664%
41.0	30.572	2.199	2230.991	.086%	97.760%
42.0	20.370	1.495	2232.486	.059%	97.826%
43.0	18.295	1.368	2233.854	.054%	97.886%
44.0	16.334	1.244	2235.098	.049%	97.940%
45.0	14.266	1.106	2236.205	.043%	97.989%
46.0	13.409	1.058	2237.262	.042%	98.035%
47.0	12.734	1.021	2238.284	.040%	98.080%
48.0	12.438	1.014	2239.297	.040%	98.124%
49.0	12.199	1.010	2240.307	.040%	98.168%
50.0	11.988	1.007	2241.314	.040%	98.213%
51.0	11.791	1.005	2242.319	.039%	98.257%
52.0	11.623	1.004	2243.323	.039%	98.301%
53.0	11.447	1.003	2244.326	.039%	98.344%
54.0	11.264	0.999	2245.325	.039%	98.388%
55.0	11.109	0.998	2246.323	.039%	98.432%
56.0	10.976	0.998	2247.321	.039%	98.476%
57.0	10.849	0.998	2248.319	.039%	98.519%
58.0	10.730	0.998	2249.317	.039%	98.563%
59.0	10.638	1.000	2250.316	.039%	98.607%
60.0	10.540	1.001	2251.317	.039%	98.651%
61.0	10.470	1.004	2252.322	.039%	98.695%
62.0	10.406	1.008	2253.329	.040%	98.739%
63.0	10.336	1.010	2254.339	.040%	98.783%
64.0	10.273	1.012	2255.352	.040%	98.828%
65.0	10.223	1.016	2256.368	.040%	98.872%
66.0	10.153	1.017	2257.385	.040%	98.917%
67.0	10.125	1.022	2258.407	.040%	98.962%
68.0	10.076	1.024	2259.431	.040%	99.006%
69.0	10.062	1.030	2260.461	.040%	99.052%
70.0	10.013	1.032	2261.493	.041%	99.097%
71.0	9.991	1.036	2262.529	.041%	99.142%
72.0	9.963	1.039	2263.568	.041%	99.188%
73.0	9.935	1.042	2264.61	.041%	99.233%
74.0	9.900	1.044	2265.654	.041%	99.279%
75.0	9.907	1.049	2266.703	.041%	99.325%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.886	1.052	2267.755	.041%	99.371%
77.0	9.865	1.054	2268.809	.041%	99.417%
78.0	9.844	1.056	2269.865	.041%	99.464%
79.0	9.830	1.058	2270.923	.042%	99.510%
80.0	9.823	1.061	2271.984	.042%	99.556%
81.0	9.823	1.064	2273.048	.042%	99.603%
82.0	9.816	1.066	2274.114	.042%	99.650%
83.0	9.809	1.068	2275.181	.042%	99.697%
84.0	9.773	1.066	2276.247	.042%	99.743%
85.0	9.780	1.068	2277.316	.042%	99.790%
86.0	9.738	1.065	2278.381	.042%	99.837%
87.0	9.717	1.064	2279.445	.042%	99.883%
88.0	9.717	1.065	2280.51	.042%	99.930%
89.0	9.710	1.065	2281.575	.042%	99.977%
90.0	9.696	0.532	2282.106	.021%	100.000%

Zonal flux distribution table

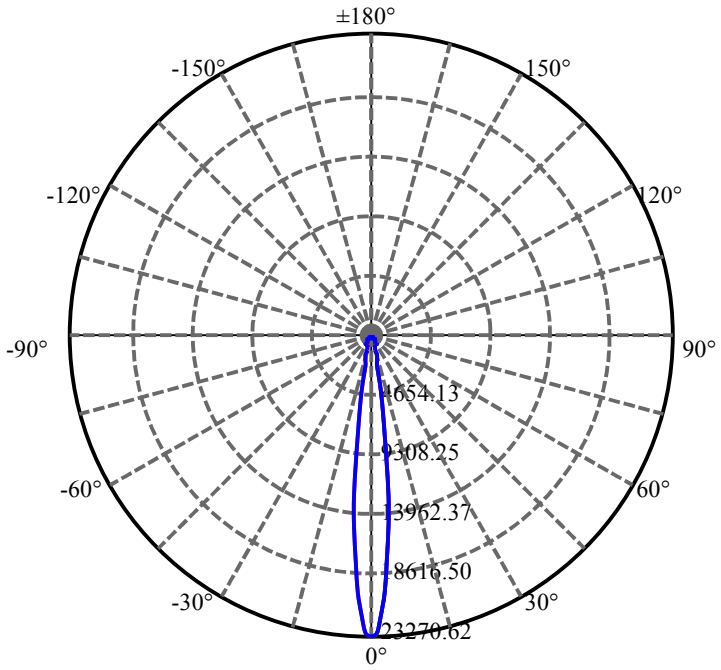
ZONAL LUMEN SUMMARY

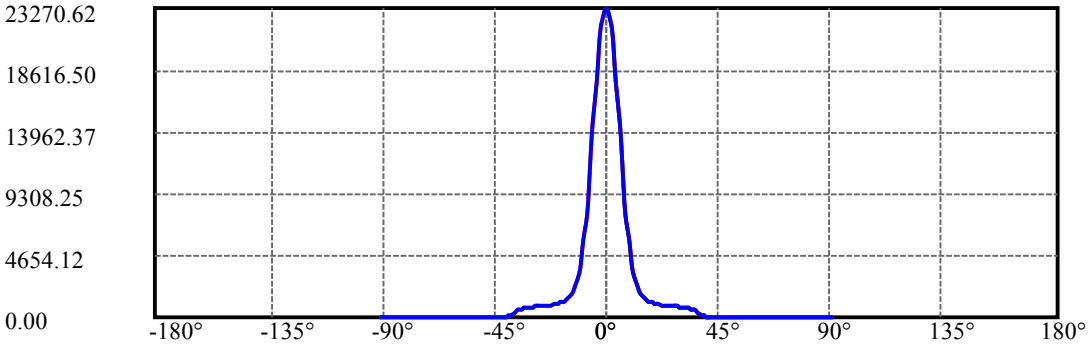
Zone	Lumens	%Lamp	%Fixt
0-30	1954.41	76.73%	85.64%
0-40	2228.79	87.51%	97.66%
0-60	2251.32	88.39%	98.65%
0-90	2281.57	89.58%	99.98%
0-120	2281.57	89.58%	99.98%
0-180	2282.11	89.60%	100.00%
60-90	31.26	1.23%	1.37%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.95	1825.69	71.68%	80.00%

ZONAL LUMEN SUMMARY

0-10	1098.86
10-20	454.76
20-30	400.79
30-40	274.39
40-50	12.52
50-60	10.00
60-70	10.18
70-80	10.49
80-90	9.59
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):

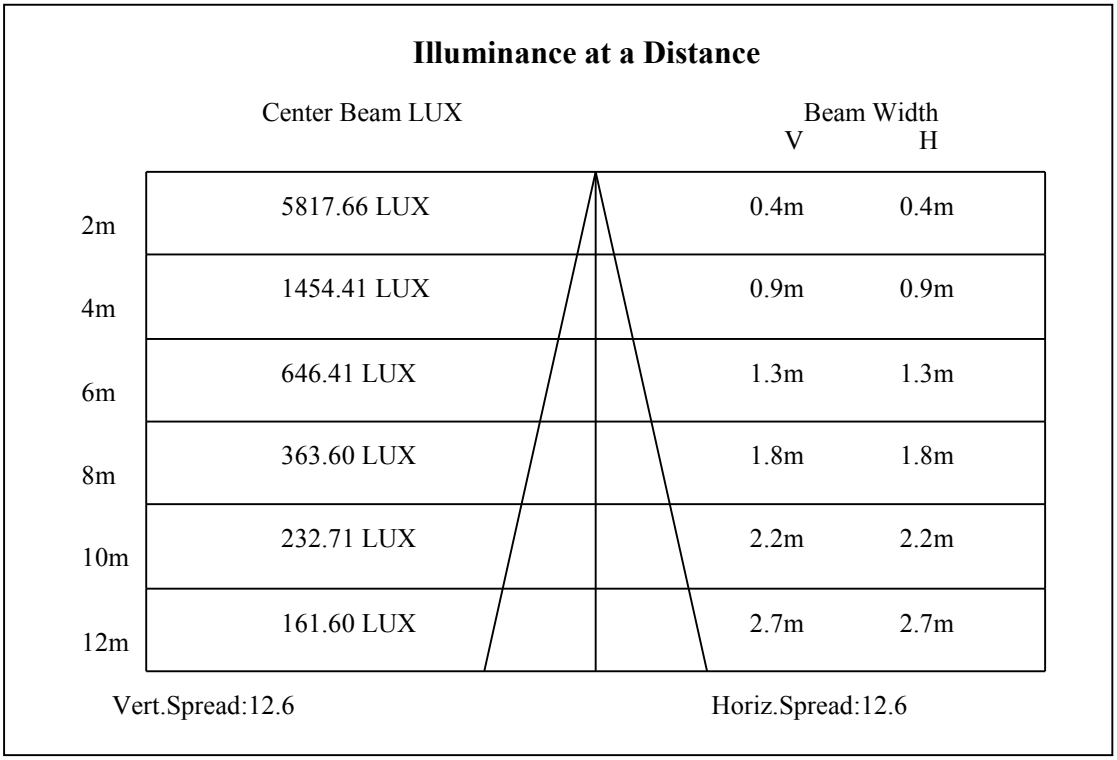
C0/C180:

C90/C270:

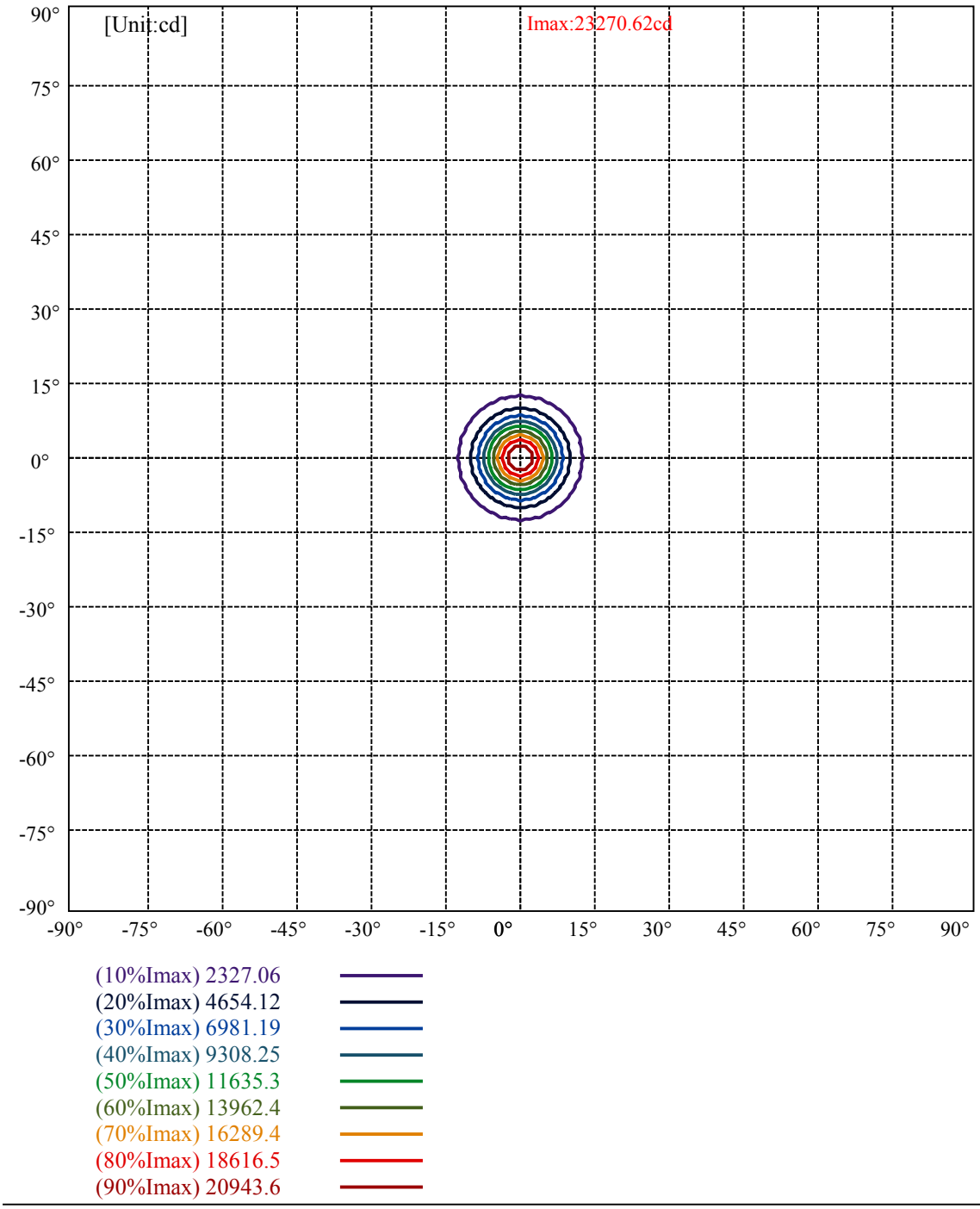
Field angle(10%Imax):C0/180Left:12.4 Right:12.4
:C90/270Left:12.4 Right:12.4

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

Lux distance Curve



ISO-Intensity(V-H)



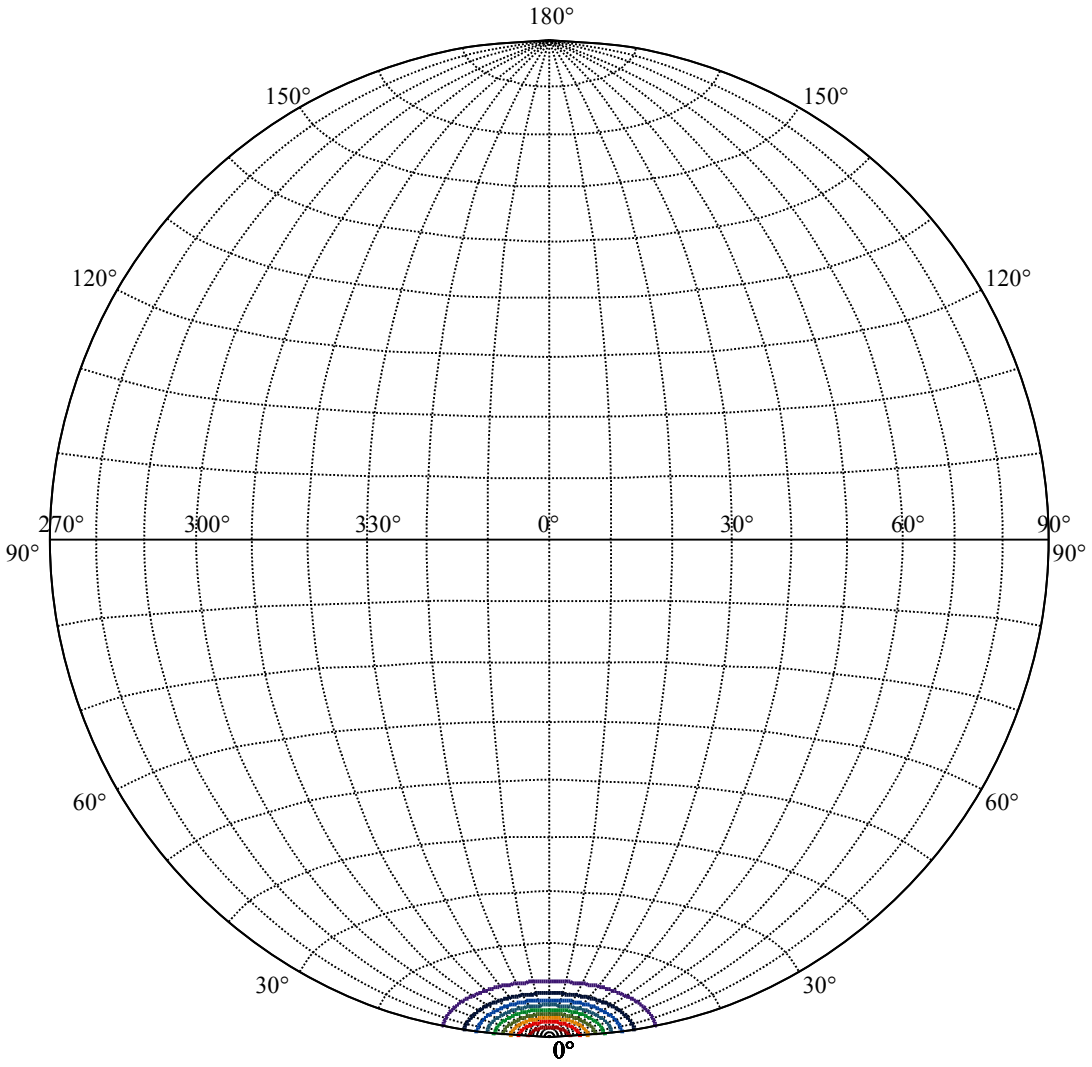
(10%Imax) 2327.06
(20%Imax) 4654.12
(30%Imax) 6981.19
(40%Imax) 9308.25
(50%Imax) 11635.3
(60%Imax) 13962.4
(70%Imax) 16289.4
(80%Imax) 18616.5
(90%Imax) 20943.6

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



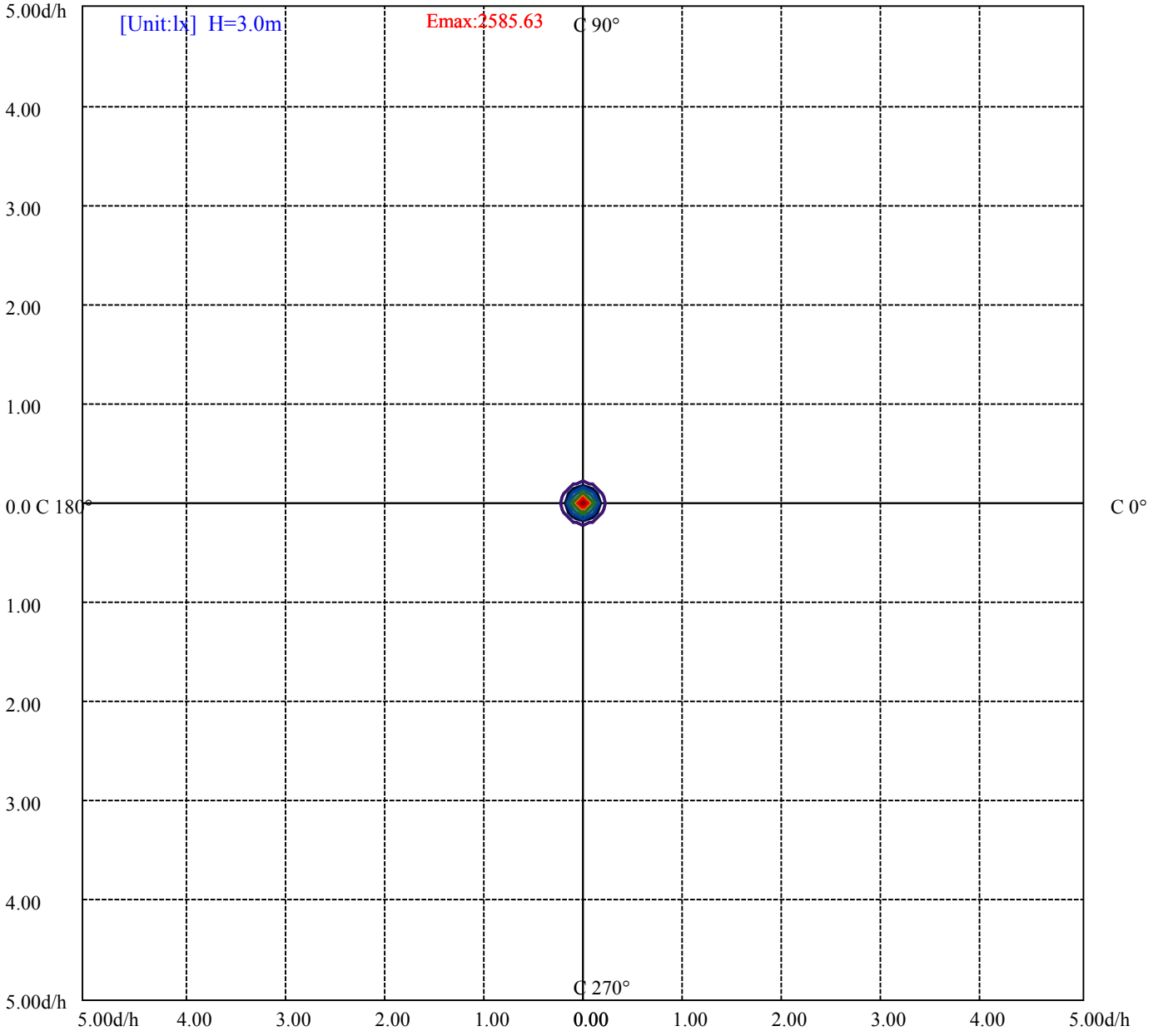
House [Unit:cd] Road

Imax:23270.62

(10%Imax) 2327.06
(20%Imax) 4654.12
(30%Imax) 6981.19
(40%Imax) 9308.25
(50%Imax) 11635.3
(60%Imax) 13962.4
(70%Imax) 16289.4
(80%Imax) 18616.5
(90%Imax) 20943.6

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

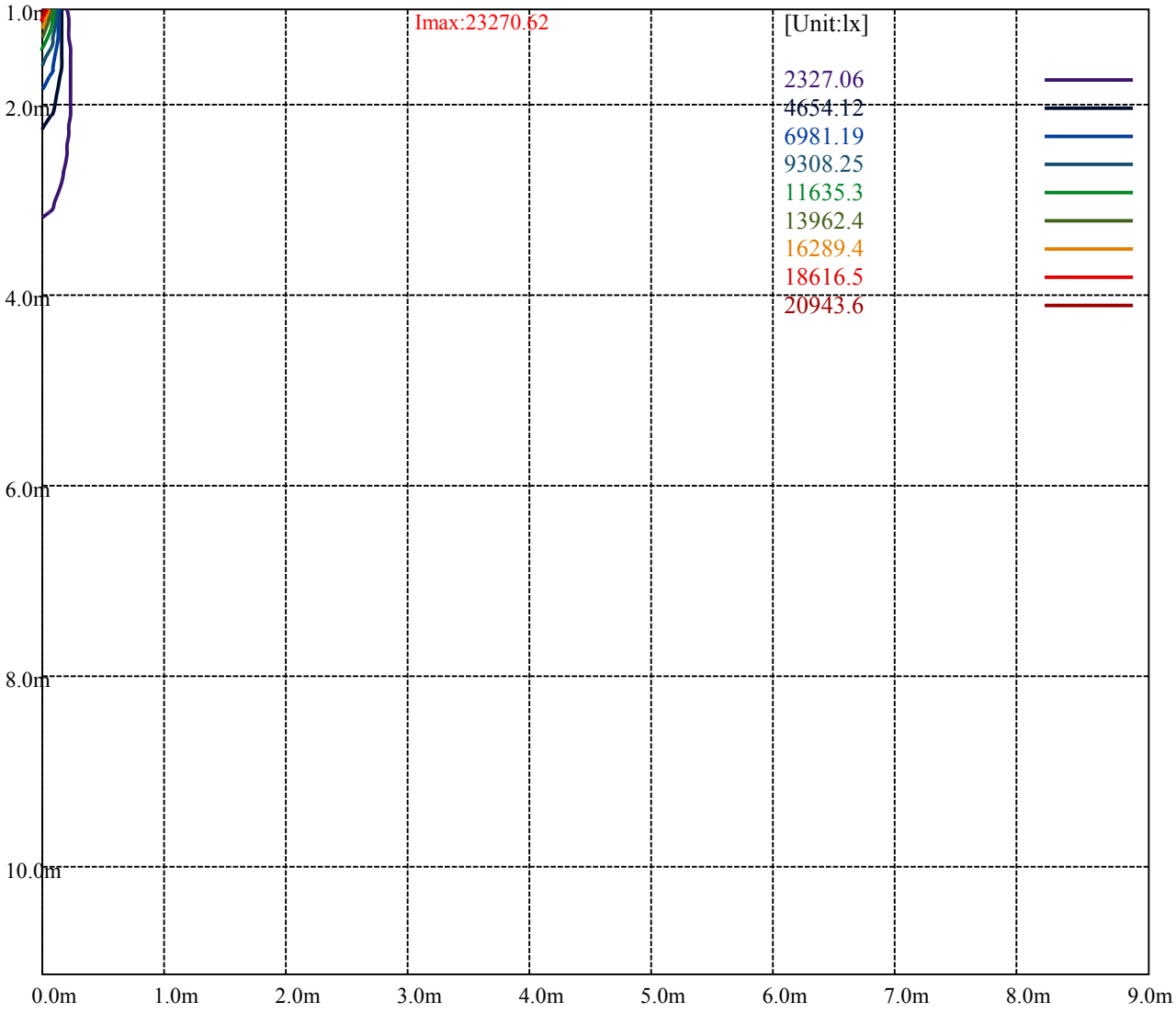
ISO illuminance diagram



(10%Emax) 258.5622
(20%Emax) 517.1233
(30%Emax) 775.6855
(40%Emax) 1034.248
(50%Emax) 1292.811
(60%Emax) 1551.367
(70%Emax) 1809.933
(80%Emax) 2068.5
(90%Emax) 2327.056

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 3-2033-M

Luminance Limitting Curve(no luminous side)

Luminance Table

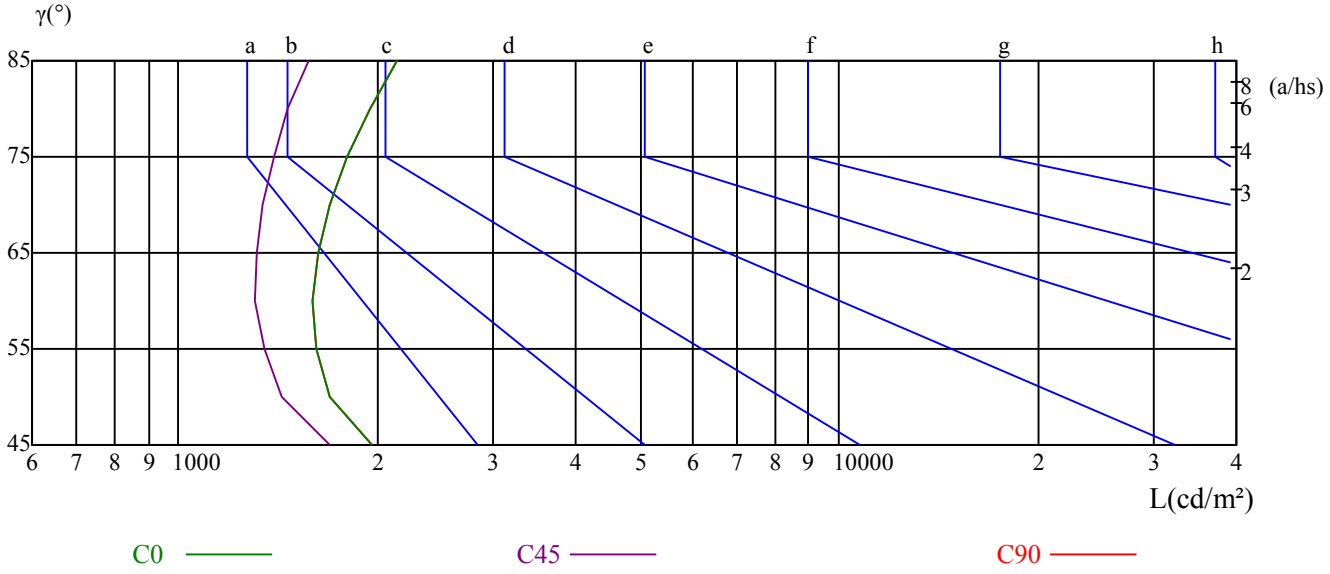
γ	45	50	55	60	65	70	75	80	85
C0	1965	1689	1615	1595	1626	1691	1799	1944	2146
C45	1690	1431	1347	1308	1310	1337	1392	1467	1572
C90	1965	1689	1615	1595	1626	1691	1799	1944	2146

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3876	3876	3876	6133	6133	6133	17981	17981	17981

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

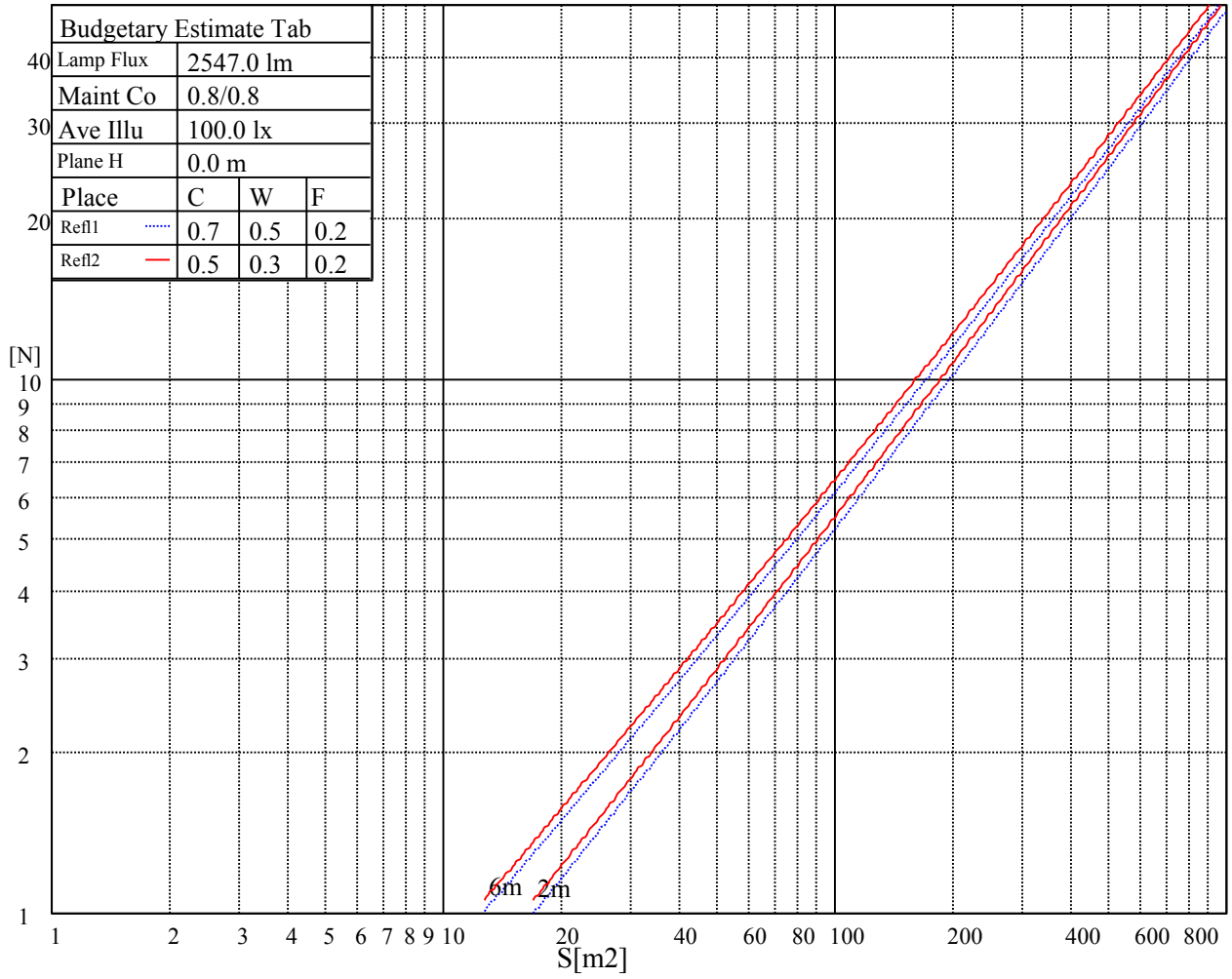
Operator: NT07
Distance(m): 7.50

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	-0.06	0.85	0.31	1.16	1.48	-0.08	0.83	0.29	1.14	1.46
	3H	2.19	2.99	2.57	3.32	3.69	2.16	2.96	2.55	3.30	3.67
	4H	3.41	4.15	3.82	4.50	4.89	3.39	4.13	3.80	4.48	4.88
	6H	4.71	5.39	5.13	5.76	6.16	4.69	5.37	5.11	5.75	6.15
	8H	5.36	6.00	5.80	6.39	6.80	5.35	5.98	5.79	6.38	6.79
	12H	6.37	6.98	6.81	7.36	7.79	6.36	6.97	6.80	7.35	7.78
4H	2H	0.42	1.16	0.83	1.51	1.91	0.40	1.14	0.81	1.50	1.89
	3H	2.96	3.57	3.38	3.98	4.39	2.94	3.55	3.36	3.96	4.37
	4H	4.36	4.90	4.80	5.33	5.78	4.34	4.89	4.78	5.31	5.76
	6H	5.77	6.23	6.24	6.68	7.16	5.75	6.21	6.22	6.67	7.14
	8H	6.53	6.97	7.01	7.42	7.89	6.52	6.95	7.00	7.40	7.88
	12H	7.54	7.91	8.03	8.40	8.88	7.53	7.90	8.02	8.39	8.86
8H	4H	4.80	5.23	5.28	5.68	6.16	4.78	5.22	5.26	5.67	6.14
	6H	6.44	6.78	6.96	7.29	7.78	6.43	6.77	6.94	7.27	7.76
	8H	7.36	7.66	7.90	8.19	8.69	7.35	7.65	7.89	8.18	8.67
	12H	8.50	8.76	9.03	9.26	9.84	8.49	8.75	9.01	9.25	9.83
12H	4H	4.89	5.26	5.38	5.75	6.23	4.87	5.24	5.37	5.73	6.21
	6H	6.81	6.92	7.15	7.39	7.94	6.80	6.90	7.14	7.38	7.93
	8H	7.63	7.89	8.16	8.39	8.97	7.62	7.88	8.14	8.38	8.96

Variation with the observer position at spacings:		
S = 1.0H	5.8/-8.4	5.8/-8.4
S = 1.5H	8.3/-6.6	8.3/-6.6
S = 2.0H	9.9/-5.3	9.9/-5.3
Standard tables:	BK1	BK1
Uncorrected UGR	-3.1	-3.1

Budgetary Estimate Table

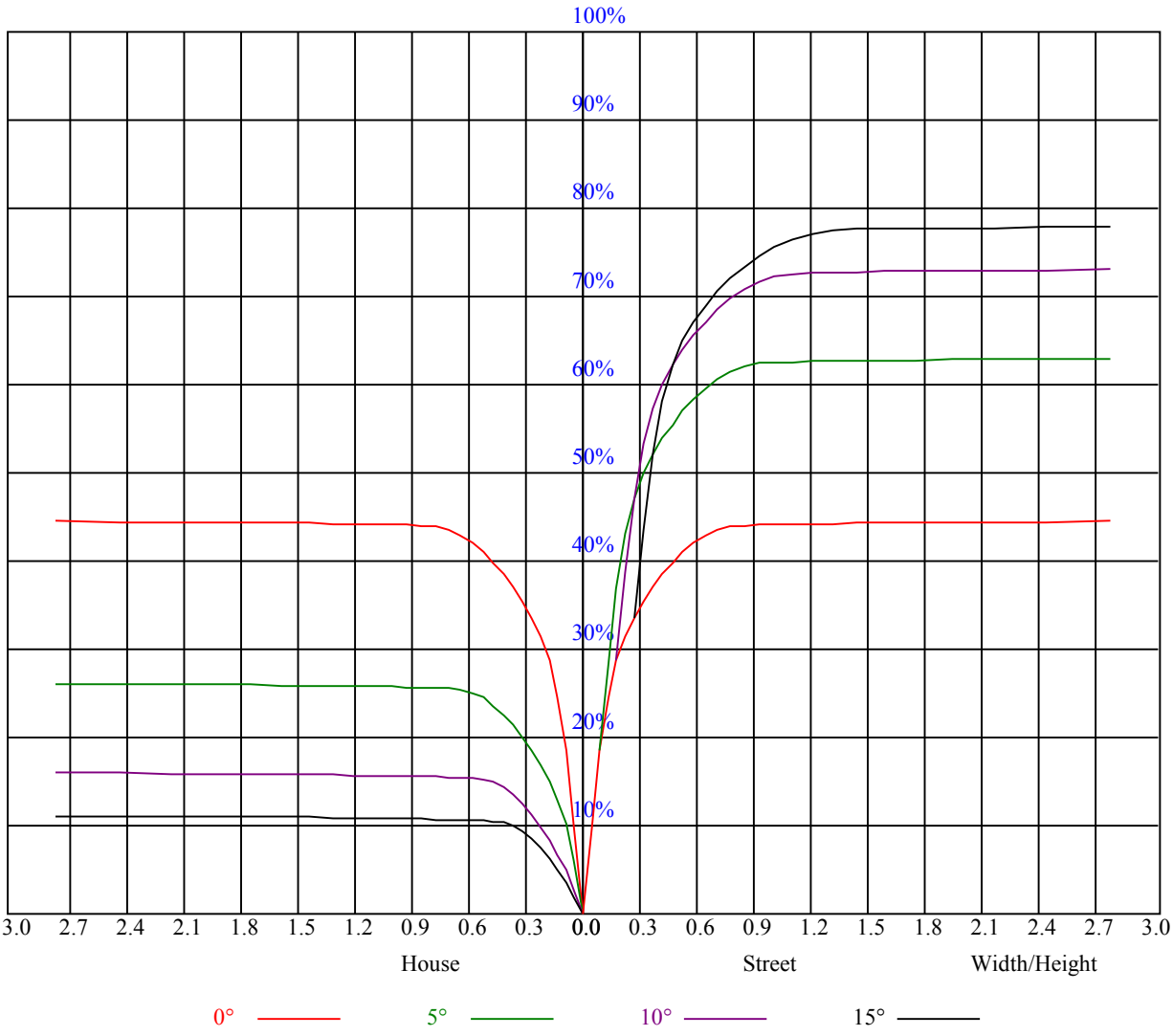


Equipment: GMS1980 Date: 2018/9/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.50

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	1.04	1.04	1.04	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	0.96	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	0.92	0.89	0.91	0.89	0.88	0.89	0.87	0.86	0.86	0.85	0.84	0.83
3	0.92	0.88	0.85	0.90	0.87	0.85	0.88	0.85	0.83	0.86	0.84	0.82	0.84	0.82	0.81	0.80
4	0.88	0.84	0.81	0.87	0.83	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.82	0.80	0.78	0.77
5	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.80	0.77	0.76	0.75
6	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
7	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	0.70
8	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
9	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.73	0.70	0.68	0.72	0.69	0.68	0.67
10	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.65

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	23512.50	22578.75	20610.00	18523.13	16093.13	12965.63	10563.75	8386.88	6232.50
45.0	23191.88	23726.25	23197.50	21976.88	20255.63	17544.38	15125.63	12616.88	9916.88
90.0	23478.75	23776.88	23085.00	21543.75	19648.13	17133.75	14726.25	11066.06	9373.50
135.0	22899.38	23754.38	23551.88	22528.13	20919.38	18286.88	15946.88	13471.88	10462.50
180.0	23512.50	23698.13	23051.25	21335.63	19417.50	17161.88	14400.00	11016.00	9302.06
225.0	23191.88	21976.88	19996.88	17516.25	15086.25	11130.75	9999.00	7651.13	5627.25
270.0	23478.75	22443.75	20373.75	18180.00	15710.63	12538.13	10192.50	8049.38	5911.88
315.0	22899.38	21459.38	19344.38	17049.38	14231.25	11127.94	9186.19	6935.63	5015.81
360.0	23512.50	22578.75	20610.00	18523.13	16093.13	12965.63	10563.75	8386.88	6232.50

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4483.13	3318.75	2885.63	2021.63	1686.38	1462.50	1314.56	1196.44	1115.44
45.0	7526.25	5686.88	4027.50	2998.13	2511.00	1841.06	1598.06	1409.63	1277.44
90.0	7309.69	5335.31	3839.63	2941.88	2350.13	1864.69	1609.88	1422.56	1255.50
135.0	8313.75	6423.75	4815.00	3341.25	2840.63	2120.06	1756.69	1514.25	1373.06
180.0	6985.13	5065.31	3762.00	2768.63	2223.56	1831.50	1574.44	1409.63	1283.63
225.0	4187.25	3038.63	2330.44	1935.56	1666.69	1429.88	1299.94	1179.00	1122.30
270.0	4196.25	3121.88	2919.38	1974.38	1678.50	1491.75	1337.06	1226.81	1150.31
315.0	3696.19	2805.19	2128.50	1790.44	1560.94	1381.50	1256.06	1115.66	1084.44
360.0	4483.13	3318.75	2885.63	2021.63	1686.38	1462.50	1314.56	1196.44	1115.44

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1056.38	1009.69	968.06	937.69	910.69	887.06	863.44	845.44	825.75
45.0	1188.56	1119.94	1052.44	1008.00	969.19	931.50	895.50	874.69	852.75
90.0	1120.44	1085.18	1026.23	978.98	943.99	916.48	887.06	864.73	848.36
135.0	1224.00	1133.44	1068.19	1012.50	970.31	933.19	901.13	879.19	860.63
180.0	1113.30	1098.06	1040.85	982.35	945.28	912.77	876.09	856.46	842.46
225.0	1051.03	1005.30	970.88	931.67	903.71	877.73	858.26	834.69	821.31
270.0	1082.81	1030.50	982.69	939.94	912.38	884.81	864.56	847.69	832.50
315.0	1032.86	989.38	943.93	916.54	886.61	862.09	849.21	829.24	813.38
360.0	1056.38	1009.69	968.06	937.69	910.69	887.06	863.44	845.44	825.75

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	811.69	799.88	786.94	777.38	764.44	727.31	650.25	542.25	421.88
45.0	831.38	816.75	804.38	794.81	780.75	770.63	758.25	719.44	624.38
90.0	827.16	811.13	797.29	787.05	776.19	764.38	752.79	723.43	649.29
135.0	841.50	820.69	807.19	792.00	782.44	770.63	760.50	746.44	693.56
180.0	818.55	808.26	795.94	783.51	772.54	760.67	746.89	694.91	610.65
225.0	806.23	796.67	783.34	770.01	760.16	711.62	620.61	521.72	410.68
270.0	815.63	804.38	795.38	779.06	765.00	749.25	673.31	570.94	479.81
315.0	803.08	791.89	775.07	765.28	753.69	691.03	593.78	491.91	366.13
360.0	811.69	799.88	786.94	777.38	764.44	727.31	650.25	542.25	421.88

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	312.75	285.75	90.06	35.49	23.79	21.77	19.18	16.82	15.24
45.0	525.38	413.44	290.25	173.42	91.01	35.21	22.16	20.36	17.94
90.0	528.24	422.38	315.79	187.82	98.21	37.74	22.39	20.03	17.78
135.0	598.50	498.38	374.06	290.25	152.33	62.78	24.02	21.88	19.74
180.0	481.73	376.31	270.17	147.43	68.06	26.27	21.99	19.52	16.71
225.0	273.94	174.49	91.01	27.39	22.50	20.64	17.83	15.53	14.34
270.0	344.25	291.38	124.48	44.55	22.39	20.59	18.17	16.43	15.13
315.0	247.22	152.49	66.09	25.59	21.54	19.58	17.21	15.81	13.78
360.0	312.75	285.75	90.06	35.49	23.79	21.77	19.18	16.82	15.24

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	13.61	13.28	12.94	12.66	12.38	12.15	11.93	11.81	11.59
45.0	14.91	13.73	12.94	12.60	12.32	12.09	11.93	11.70	11.53
90.0	15.24	14.06	12.77	12.43	12.21	12.04	11.81	11.64	11.48
135.0	16.31	14.34	12.88	12.49	12.26	11.98	11.81	11.64	11.48
180.0	14.46	13.16	12.54	12.32	12.09	11.87	11.70	11.53	11.42
225.0	12.99	12.71	12.43	12.15	11.98	11.81	11.59	11.42	11.25
270.0	13.39	13.05	12.77	12.49	12.21	12.04	11.81	11.64	11.42
315.0	13.22	12.94	12.60	12.38	12.15	11.93	11.76	11.59	11.42
360.0	13.61	13.28	12.94	12.66	12.38	12.15	11.93	11.81	11.59

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.36	11.14	10.97	10.80	10.63	10.52	10.46	10.35	10.29
45.0	11.36	11.19	11.03	10.91	10.80	10.69	10.58	10.52	10.46
90.0	11.31	11.14	11.03	10.86	10.74	10.69	10.58	10.52	10.46
135.0	11.31	11.19	11.03	10.91	10.80	10.74	10.63	10.52	10.46
180.0	11.25	11.08	10.97	10.86	10.74	10.63	10.58	10.52	10.46
225.0	11.08	10.97	10.86	10.74	10.63	10.58	10.46	10.41	10.35
270.0	11.25	11.14	10.97	10.86	10.80	10.69	10.58	10.52	10.41
315.0	11.19	11.03	10.97	10.86	10.69	10.58	10.46	10.41	10.35
360.0	11.36	11.14	10.97	10.80	10.63	10.52	10.46	10.35	10.29

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.24	10.18	10.13	10.07	10.07	10.01	10.01	9.96	9.96
45.0	10.41	10.35	10.29	10.18	10.13	10.13	10.13	10.07	10.07
90.0	10.35	10.29	10.24	10.18	10.13	10.13	10.07	10.01	10.01
135.0	10.41	10.35	10.29	10.24	10.24	10.13	10.07	10.07	10.07
180.0	10.35	10.29	10.24	10.18	10.13	10.07	10.07	10.01	9.96
225.0	10.29	10.24	10.18	10.13	10.13	10.07	10.07	10.01	10.01
270.0	10.35	10.29	10.24	10.18	10.13	10.07	10.07	10.01	9.96
315.0	10.29	10.18	10.18	10.07	10.07	10.01	10.01	9.96	9.90
360.0	10.24	10.18	10.13	10.07	10.07	10.01	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	9.84	9.84	9.84	9.79	9.79	9.79	9.79
45.0	10.01	10.01	9.96	9.96	9.96	9.96	9.90	9.90	9.90
90.0	9.96	9.90	9.84	9.90	9.90	9.84	9.84	9.79	9.79
135.0	10.01	9.96	9.96	9.96	9.90	9.90	9.84	9.84	9.84
180.0	9.96	9.96	9.90	9.90	9.84	9.84	9.84	9.79	9.79
225.0	10.01	9.96	9.96	9.96	9.96	9.90	9.90	9.90	9.90
270.0	9.96	9.90	9.90	9.90	9.90	9.84	9.84	9.84	9.79
315.0	9.90	9.90	9.84	9.84	9.79	9.84	9.79	9.79	9.79
360.0	9.90	9.90	9.84	9.84	9.84	9.79	9.79	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	9.73	9.73	9.73	9.73	9.73	9.68	9.68	9.73
45.0	9.90	9.90	9.90	9.90	9.96	9.79	9.79	9.73	9.73
90.0	9.79	9.79	9.73	9.73	9.73	9.73	9.73	9.73	9.68
135.0	9.79	9.79	9.79	9.73	9.79	9.73	9.73	9.73	9.73
180.0	9.79	9.79	9.73	9.73	9.73	9.73	9.68	9.73	9.68
225.0	9.96	10.01	10.07	9.84	9.79	9.73	9.73	9.73	9.73
270.0	9.79	9.79	9.79	9.79	9.79	9.73	9.73	9.73	9.73
315.0	9.79	9.73	9.73	9.73	9.73	9.73	9.68	9.68	9.68
360.0	9.79	9.73	9.73	9.73	9.73	9.73	9.68	9.68	9.73

Intensity data(cd)

C/γ(°)	90.0
0.0	9.68
45.0	9.73
90.0	9.73
135.0	9.68
180.0	9.68
225.0	9.68
270.0	9.73
315.0	9.68
360.0	9.68