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NATA

LumCAT: 3-1545-A3
Luminaire: 99.02.73.172+92.76.365.00

Report No: NATA0100	Voltage(V): 35.6000
Test No: GC2019011612	Current(A): 0.6000
LampCAT: CITIZEN CMT1922	Power (W): 21.3600
Lamp flux(lm): 2875.0	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): 2588.80
Efficiency(%): 90.05%
Lumens(lm)/Power(W): 121.45
Central intensity(cd): 23035.780
Maximum intensity(cd): 23035.780
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=13.5
[C90/270]Total=13.5
Field angle(10%Imax): [C0/180]Total=26.7
[C90/270]Total=26.7
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(%): 90.23%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.523%

Equipment: GMS1980	Date: 2019/1/16	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	23035.781	5.511	5.511	.192%	.213%
1.0	22836.797	43.706	49.217	1.520%	1.901%
2.0	22222.969	85.050	134.267	2.958%	5.186%
3.0	21029.766	120.694	254.961	4.198%	9.849%
4.0	19129.922	146.335	401.297	5.090%	15.501%
5.0	16783.594	160.410	561.707	5.579%	21.698%
6.0	13760.227	157.729	719.436	5.486%	27.790%
7.0	10864.898	145.202	864.638	5.050%	33.399%
8.0	8537.906	130.304	994.942	4.532%	38.433%
9.0	6375.234	109.365	1104.308	3.804%	42.657%
10.0	4804.523	91.490	1195.797	3.182%	46.191%
11.0	3729.305	78.033	1273.83	2.714%	49.205%
12.0	2971.125	67.741	1341.571	2.356%	51.822%
13.0	2445.047	60.315	1401.887	2.098%	54.152%
14.0	2053.758	54.485	1456.372	1.895%	56.257%
15.0	1792.617	50.879	1507.25	1.770%	58.222%
16.0	1596.445	48.255	1555.505	1.678%	60.086%
17.0	1466.930	47.032	1602.538	1.636%	61.903%
18.0	1363.711	46.212	1648.75	1.607%	63.688%
19.0	1283.414	45.821	1694.57	1.594%	65.458%
20.0	1226.180	45.989	1740.56	1.600%	67.234%
21.0	1175.484	46.195	1786.755	1.607%	69.019%
22.0	1138.043	46.750	1833.505	1.626%	70.825%
23.0	1108.920	47.515	1881.02	1.653%	72.660%
24.0	1079.142	48.133	1929.153	1.674%	74.519%
25.0	1047.502	48.546	1977.7	1.689%	76.395%
26.0	1020.206	49.044	2026.743	1.706%	78.289%
27.0	994.746	49.523	2076.267	1.723%	80.202%
28.0	971.135	49.997	2126.263	1.739%	82.133%
29.0	949.296	50.469	2176.732	1.755%	84.083%
30.0	928.371	50.903	2227.635	1.771%	86.049%
31.0	903.558	51.033	2278.668	1.775%	88.020%
32.0	856.125	49.751	2328.418	1.730%	89.942%
33.0	780.462	46.614	2375.032	1.621%	91.743%
34.0	670.416	41.111	2416.143	1.430%	93.331%
35.0	562.465	35.378	2451.521	1.231%	94.697%
36.0	444.909	28.678	2480.199	.997%	95.805%
37.0	324.190	21.395	2501.594	.744%	96.631%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	221.449	14.951	2516.545	.520%	97.209%
39.0	127.259	8.782	2525.327	.305%	97.548%
40.0	63.253	4.459	2529.786	.155%	97.720%
41.0	37.055	2.666	2532.452	.093%	97.823%
42.0	29.348	2.154	2534.605	.075%	97.907%
43.0	23.780	1.778	2536.384	.062%	97.975%
44.0	19.948	1.520	2537.903	.053%	98.034%
45.0	17.135	1.329	2539.232	.046%	98.085%
46.0	14.836	1.170	2540.402	.041%	98.131%
47.0	14.266	1.144	2541.546	.040%	98.175%
48.0	13.915	1.134	2542.68	.039%	98.219%
49.0	13.591	1.125	2543.805	.039%	98.262%
50.0	13.303	1.118	2544.923	.039%	98.305%
51.0	13.071	1.114	2546.037	.039%	98.348%
52.0	12.832	1.109	2547.146	.039%	98.391%
53.0	12.614	1.105	2548.25	.038%	98.434%
54.0	12.396	1.100	2549.35	.038%	98.476%
55.0	12.206	1.096	2550.446	.038%	98.519%
56.0	12.038	1.094	2551.541	.038%	98.561%
57.0	11.876	1.092	2552.633	.038%	98.603%
58.0	11.728	1.091	2553.724	.038%	98.645%
59.0	11.595	1.090	2554.814	.038%	98.687%
60.0	11.482	1.090	2555.904	.038%	98.729%
61.0	11.363	1.090	2556.994	.038%	98.771%
62.0	11.264	1.091	2558.084	.038%	98.814%
63.0	11.187	1.093	2559.177	.038%	98.856%
64.0	11.095	1.094	2560.271	.038%	98.898%
65.0	10.990	1.092	2561.363	.038%	98.940%
66.0	10.920	1.094	2562.457	.038%	98.983%
67.0	10.842	1.094	2563.552	.038%	99.025%
68.0	10.786	1.097	2564.648	.038%	99.067%
69.0	10.730	1.098	2565.747	.038%	99.110%
70.0	10.695	1.102	2566.849	.038%	99.152%
71.0	10.652	1.105	2567.953	.038%	99.195%
72.0	10.617	1.107	2569.061	.039%	99.238%
73.0	10.589	1.110	2570.171	.039%	99.280%
74.0	10.568	1.114	2571.285	.039%	99.324%
75.0	10.540	1.116	2572.402	.039%	99.367%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.512	1.118	2573.52	.039%	99.410%
77.0	10.505	1.122	2574.642	.039%	99.453%
78.0	10.498	1.126	2575.769	.039%	99.497%
79.0	10.463	1.126	2576.895	.039%	99.540%
80.0	10.448	1.128	2578.023	.039%	99.584%
81.0	10.434	1.130	2579.153	.039%	99.627%
82.0	10.427	1.132	2580.286	.039%	99.671%
83.0	10.406	1.133	2581.418	.039%	99.715%
84.0	10.399	1.134	2582.552	.039%	99.759%
85.0	10.385	1.135	2583.687	.039%	99.803%
86.0	10.406	1.138	2584.825	.040%	99.847%
87.0	10.406	1.140	2585.965	.040%	99.891%
88.0	10.357	1.135	2587.1	.039%	99.934%
89.0	10.322	1.132	2588.232	.039%	99.978%
90.0	10.329	0.566	2588.798	.020%	100.000%

Zonal flux distribution table

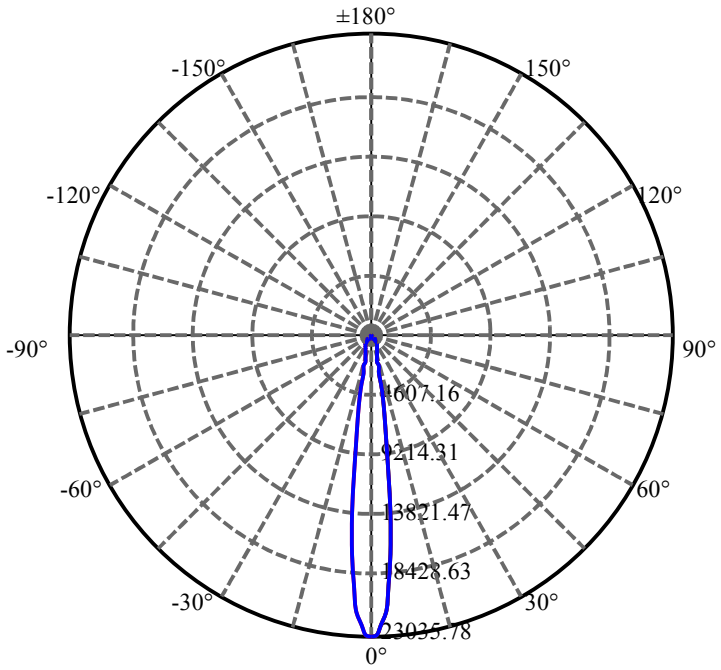
ZONAL LUMEN SUMMARY

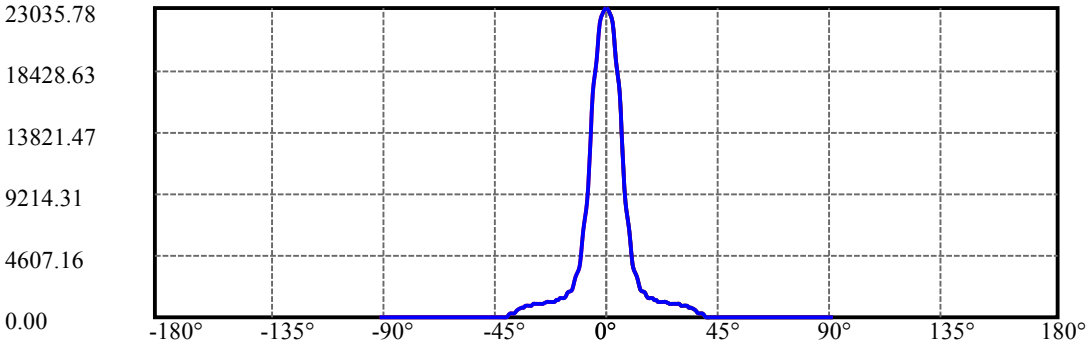
Zone	Lumens	%Lamp	%Fixt
0-30	2227.64	77.48%	86.05%
0-40	2529.79	87.99%	97.72%
0-60	2555.90	88.90%	98.73%
0-90	2588.23	90.03%	99.98%
0-120	2588.23	90.03%	99.98%
0-180	2588.80	90.05%	100.00%
60-90	33.42	1.16%	1.29%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.89	2071.04	72.04%	80.00%

ZONAL LUMEN SUMMARY

0-10	1195.80
10-20	544.76
20-30	487.08
30-40	302.15
40-50	15.14
50-60	10.98
60-70	10.94
70-80	11.17
80-90	10.21
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):

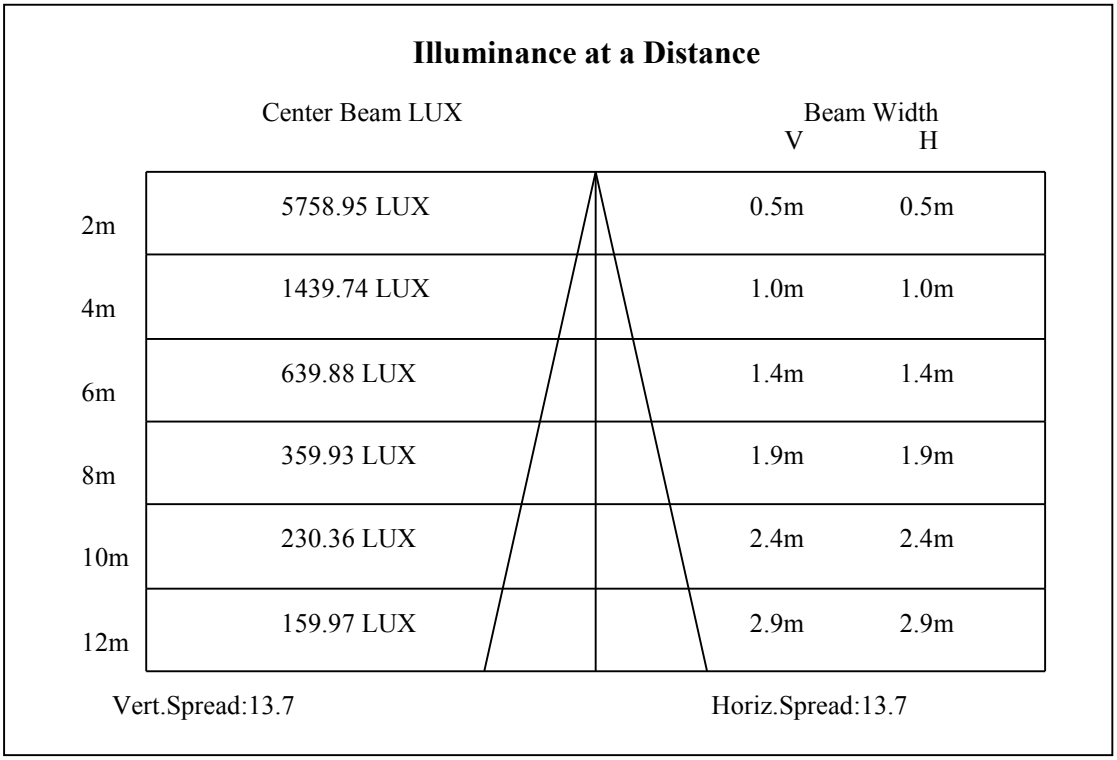
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:13.4 Right:13.4
:C90/270Left:13.4 Right:13.4

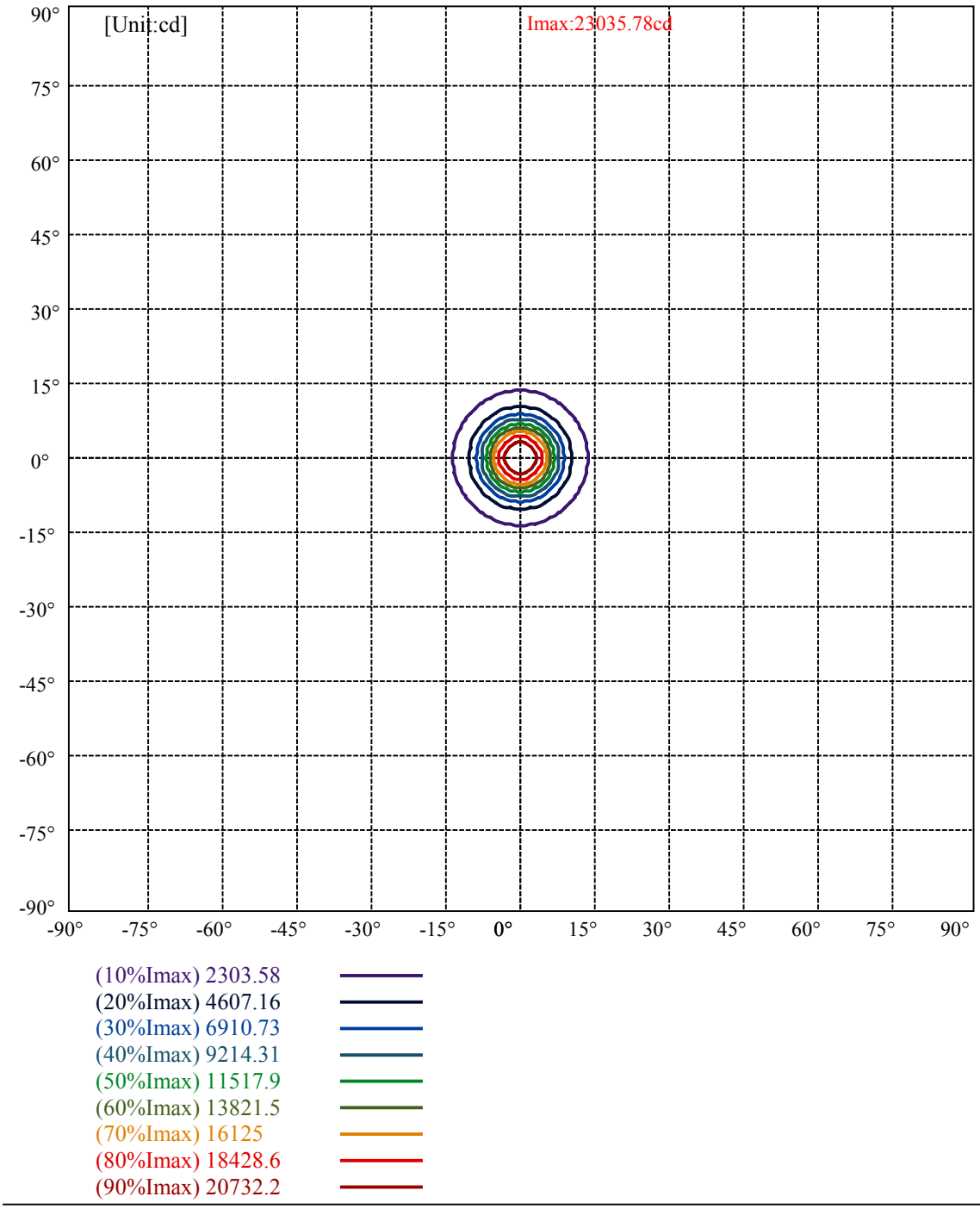
Beam Angle(50%Imax):C0/180Left:6.8 Right:6.8
:C90/270Left:6.8 Right:6.8

Lux distance Curve



Equipment: GMS1980 Date: 2019/1/16 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

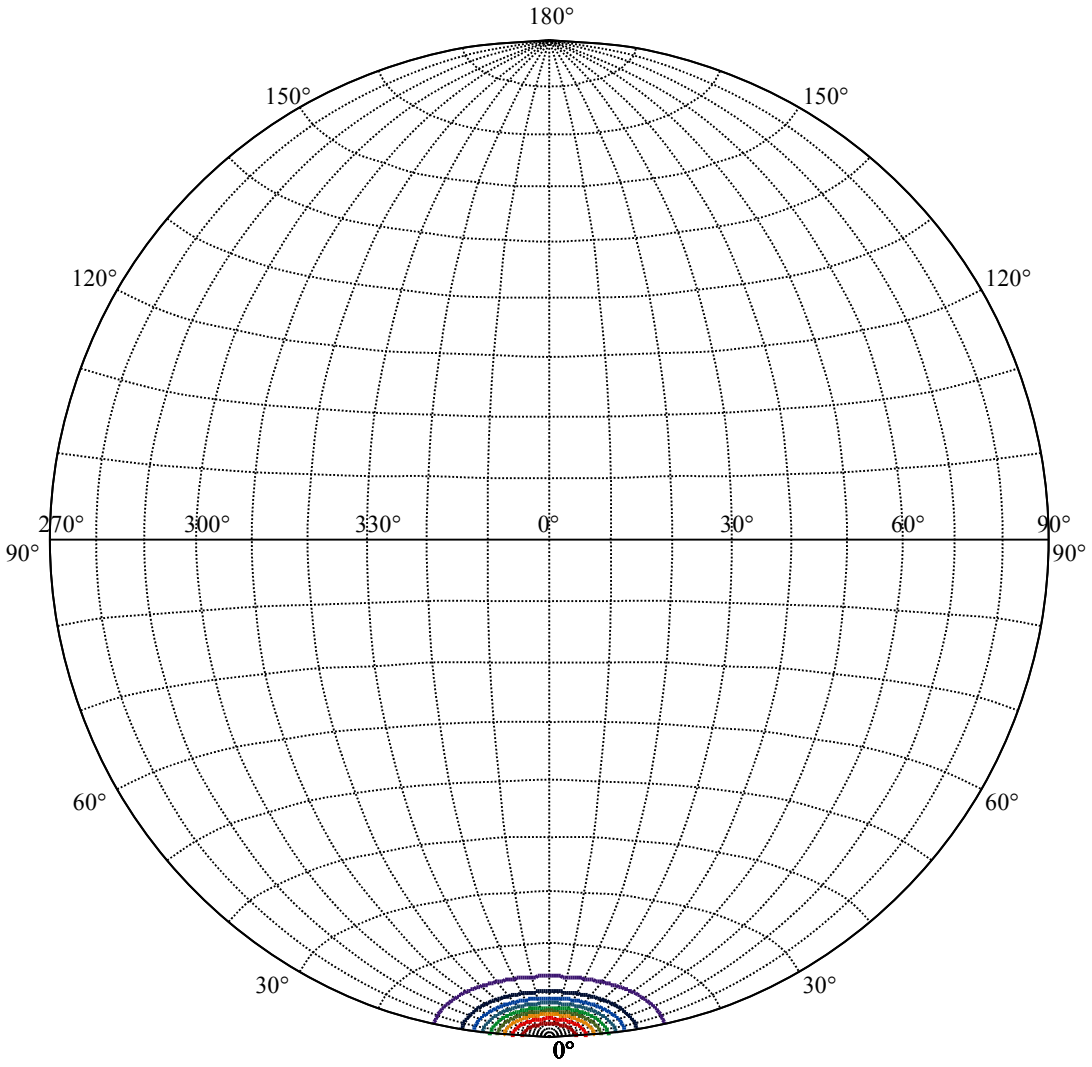


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:23035.78

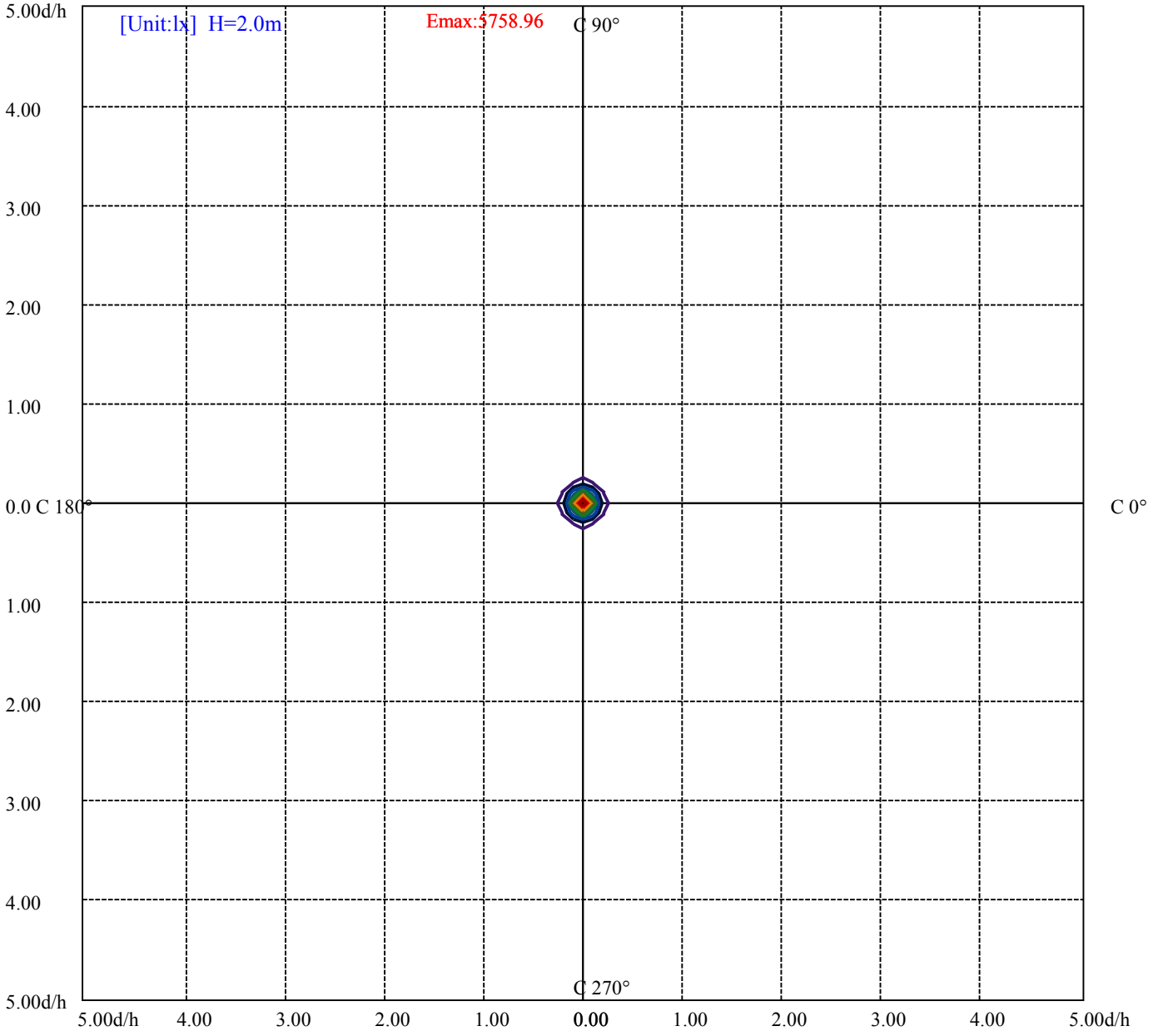
(10%Imax) 2303.58
(20%Imax) 4607.16
(30%Imax) 6910.73
(40%Imax) 9214.31
(50%Imax) 11517.9
(60%Imax) 13821.5
(70%Imax) 16125
(80%Imax) 18428.6
(90%Imax) 20732.2

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

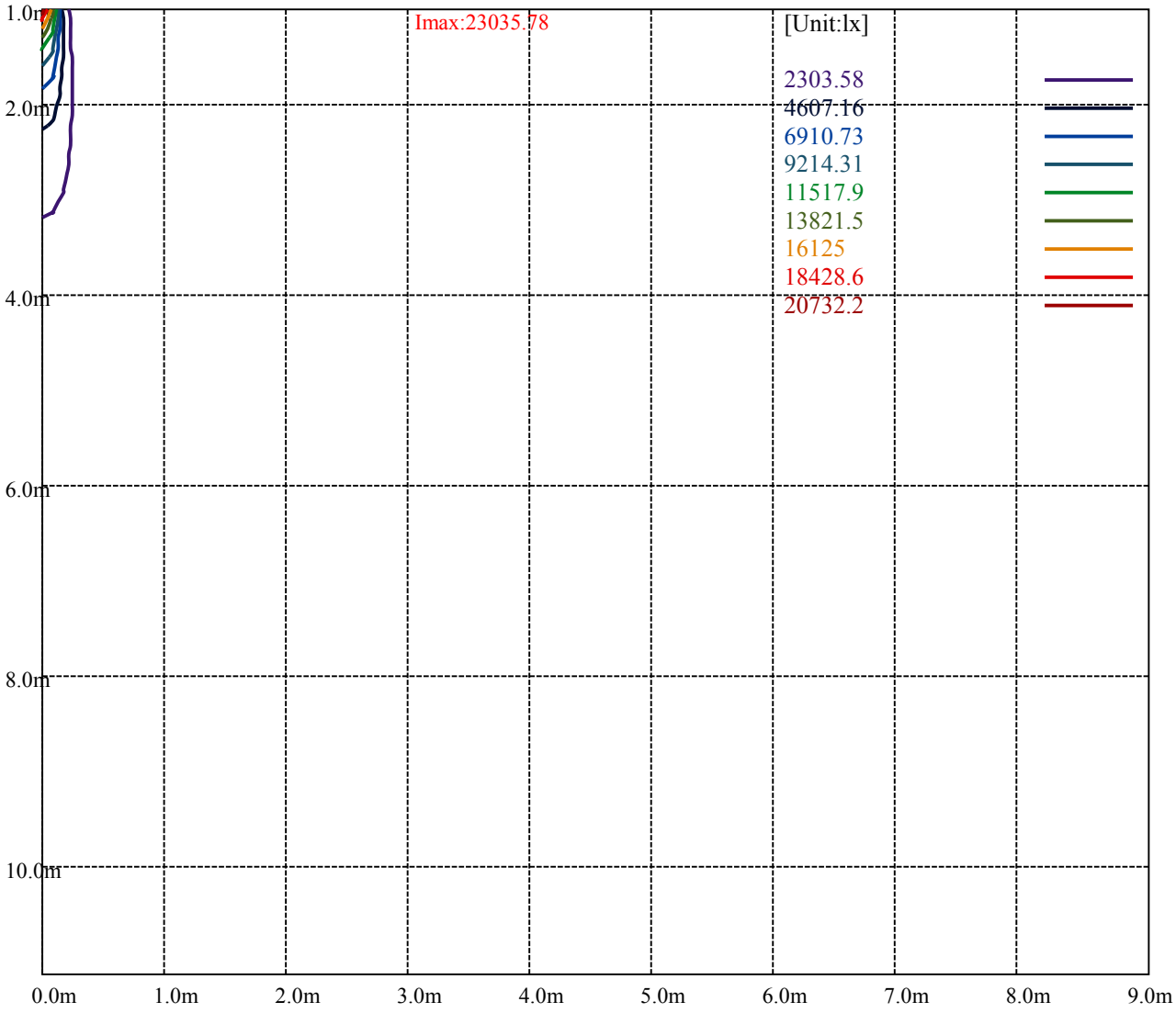
ISO illuminance diagram



(10%Emax) 575.895
(20%Emax) 1151.787
(30%Emax) 1727.682
(40%Emax) 2303.575
(50%Emax) 2879.475
(60%Emax) 3455.375
(70%Emax) 4031.25
(80%Emax) 4607.15
(90%Emax) 5183.05

Equipment: GMS1980
Temperature(°C): 10.0
Date: 2019/1/16
Humidity(%): 65.0%
Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

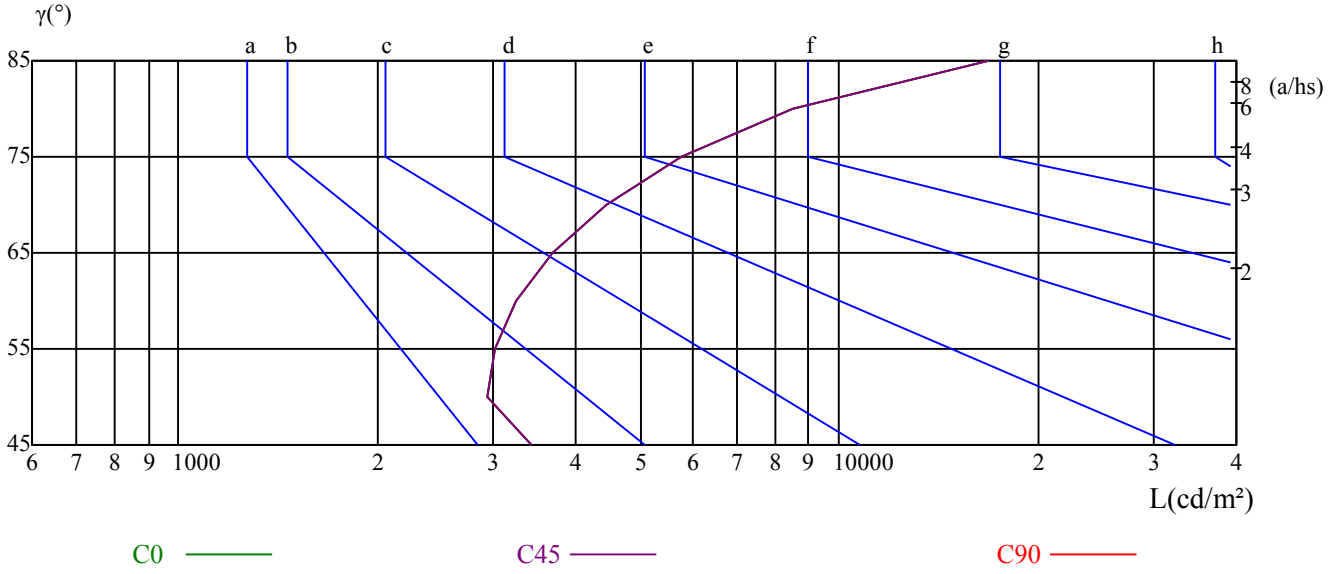
γ	45	50	55	60	65	70	75	80	85
C0	3434	2933	3016	3255	3685	4432	5771	8528	16887
C45	3434	2933	3016	3255	3685	4432	5771	8528	16887
C90	3434	2933	3016	3255	3685	4432	5771	8528	16887

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3685	3685	3685	5771	5771	5771	16887	16887	16887

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

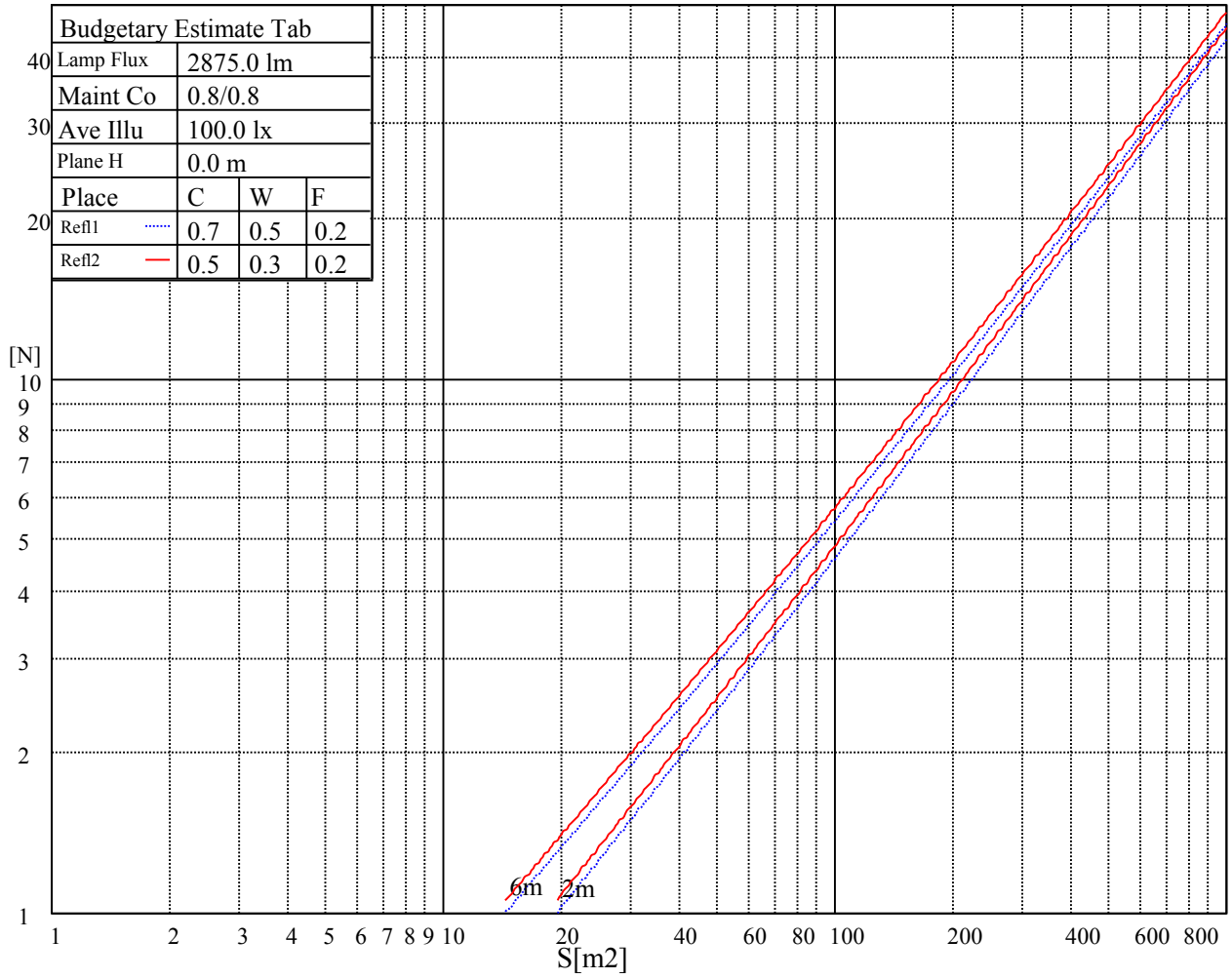


Equipment: GMS1980 Date: 2019/1/16 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.34	2.24	1.70	2.55	2.87	1.29	2.20	1.66	2.51	2.83
	3H	4.41	5.21	4.79	5.54	5.91	4.40	5.20	4.78	5.53	5.90
	4H	6.13	6.87	6.54	7.23	7.62	6.13	6.87	6.53	7.22	7.61
	6H	8.08	8.76	8.50	9.14	9.53	8.08	8.75	8.50	9.13	9.53
	8H	9.17	9.80	9.60	10.19	10.60	9.16	9.80	9.60	10.19	10.60
	12H	10.93	11.54	11.37	11.92	12.35	10.93	11.54	11.37	11.92	12.35
4H	2H	2.20	2.93	2.60	3.29	3.68	2.17	2.91	2.57	3.26	3.65
	3H	5.53	6.13	5.95	6.55	6.95	5.53	6.14	5.95	6.55	6.95
	4H	7.44	7.98	7.88	8.40	8.85	7.43	7.97	7.87	8.40	8.85
	6H	9.56	10.02	10.03	10.47	10.95	9.55	10.01	10.02	10.46	10.94
	8H	10.74	11.17	11.22	11.62	12.10	10.73	11.16	11.21	11.62	12.09
	12H	12.40	12.77	12.89	13.26	13.74	12.40	12.77	12.89	13.26	13.74
8H	4H	8.16	8.59	8.64	9.04	9.52	8.15	8.58	8.63	9.03	9.51
	6H	10.55	10.89	11.06	11.39	11.88	10.55	10.88	11.06	11.39	11.87
	8H	11.92	12.22	12.46	12.74	13.24	11.92	12.22	12.45	12.74	13.24
	12H	13.72	13.98	14.25	14.48	15.06	13.72	13.98	14.24	14.48	15.06
12H	4H	8.36	8.73	8.86	9.22	9.70	8.36	8.73	8.85	9.22	9.70
	6H	11.06	11.17	11.40	11.64	12.19	11.05	11.16	11.40	11.64	12.19
	8H	12.37	12.63	12.89	13.13	13.71	12.37	12.62	12.89	13.12	13.70
Variation with the observer position at spacings:											
S = 1.0H		5.8/-7.6					5.8/-7.6				
S = 1.5H		8.0/-5.6					8.0/-5.6				
S = 2.0H		9.4/-4.2					9.4/-4.2				
Standard tables:		BK3					BK3				
Uncorrected UGR		0.6					0.6				

Budgetary Estimate Table

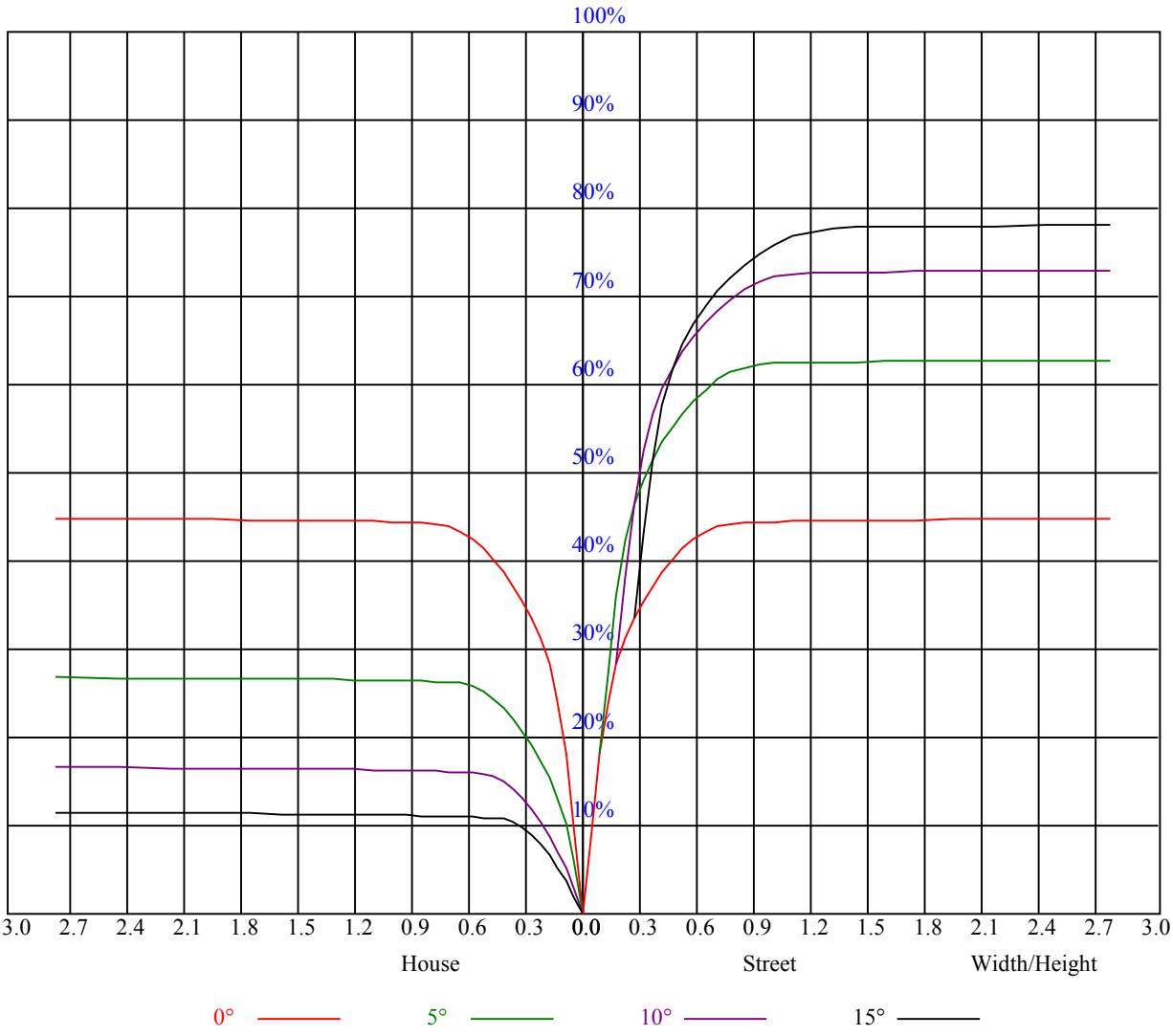


Equipment: GMS1980 Date: 2019/1/16 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.07	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	0.98	0.99	0.98	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.88	0.86
2	0.96	0.93	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.86	0.87	0.85	0.84	0.83
3	0.92	0.88	0.86	0.91	0.87	0.85	0.88	0.86	0.84	0.86	0.84	0.82	0.84	0.83	0.81	0.80
4	0.88	0.84	0.81	0.87	0.84	0.81	0.85	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
5	0.85	0.81	0.78	0.84	0.80	0.78	0.82	0.79	0.77	0.81	0.78	0.76	0.80	0.78	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	0.79	0.75	0.72	0.77	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
8	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
9	0.74	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66
10	0.72	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.65

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/1/16	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	23000.63	23068.13	22736.25	22005.00	20503.13	18202.50	15721.88	12718.13	10108.13
45.0	23096.25	22747.50	22005.00	21003.75	18478.13	16081.88	13764.38	10423.13	7762.50
90.0	22955.63	22404.38	21442.50	19501.88	17302.50	14748.75	11014.31	8813.25	6689.81
135.0	23090.63	22758.75	21898.13	20632.50	18511.88	16121.25	13140.00	10175.63	7852.50
180.0	23000.63	22573.13	21684.38	19833.75	17701.88	15176.25	11103.75	9199.13	7023.38
225.0	23096.25	23017.50	22567.50	21521.25	19732.50	17505.00	14580.00	11226.38	9045.56
270.0	22955.63	23107.50	22899.38	22246.88	20885.63	18697.50	16250.63	13235.63	10597.50
315.0	23090.63	23017.50	22550.63	21493.13	19923.75	17735.63	14506.88	11127.94	9223.88
360.0	23000.63	23068.13	22736.25	22005.00	20503.13	18202.50	15721.88	12718.13	10108.13

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7509.38	5546.25	4297.50	3403.13	2902.50	2220.19	1924.31	1673.44	1532.25
45.0	5900.63	4415.63	3391.88	2896.88	2260.69	1948.50	1698.19	1513.69	1388.25
90.0	5109.75	3884.63	3051.00	2526.75	2115.00	1826.44	1618.88	1480.50	1376.44
135.0	5805.00	4494.38	3465.00	2891.25	2286.00	1987.88	1766.81	1585.13	1446.19
180.0	5202.56	3949.31	3173.63	2566.69	2186.44	1878.75	1684.13	1521.00	1405.13
225.0	6944.06	5184.00	3927.38	2905.88	2527.31	2153.25	1857.94	1635.75	1519.88
270.0	7953.75	5911.88	4595.63	3616.88	2840.63	2330.44	2008.69	1728.00	1573.31
315.0	6576.75	5050.13	3932.44	2961.56	2441.81	2084.63	1782.00	1634.06	1494.00
360.0	7509.38	5546.25	4297.50	3403.13	2902.50	2220.19	1924.31	1673.44	1532.25

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1420.88	1323.00	1251.00	1203.75	1163.25	1130.63	1104.19	1073.81	1047.38
45.0	1309.50	1238.63	1195.88	1161.00	1125.00	1095.75	1068.75	1039.50	1011.38
90.0	1293.75	1237.50	1198.69	1162.13	1120.33	1094.79	1066.11	1031.96	1006.37
135.0	1352.25	1270.69	1218.38	1173.38	1137.94	1108.13	1077.19	1046.25	1018.69
180.0	1302.75	1234.69	1189.69	1114.88	1107.56	1079.83	1052.49	1020.09	996.08
225.0	1401.75	1306.13	1239.75	1185.19	1122.08	1107.00	1077.98	1045.58	1015.65
270.0	1454.63	1350.00	1270.13	1217.81	1171.13	1136.25	1099.69	1065.38	1036.13
315.0	1374.19	1306.69	1245.94	1185.75	1157.06	1118.98	1086.75	1057.44	1029.99
360.0	1420.88	1323.00	1251.00	1203.75	1163.25	1130.63	1104.19	1073.81	1047.38

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1019.81	997.88	975.38	954.56	930.38	905.63	849.94	743.06	640.13
45.0	988.88	969.19	945.00	922.50	896.06	844.31	744.75	629.44	523.69
90.0	983.14	954.06	933.08	912.49	877.89	799.54	705.38	588.54	478.46
135.0	995.06	966.94	945.00	924.19	903.38	842.06	758.25	645.19	537.75
180.0	974.36	949.16	926.27	906.86	878.29	807.58	718.99	605.14	497.93
225.0	987.13	969.75	948.26	926.27	906.92	870.98	803.31	697.56	591.19
270.0	1006.88	983.25	965.25	944.44	921.38	901.13	854.44	751.50	648.00
315.0	1002.71	978.86	956.14	935.66	914.18	877.78	808.65	702.90	582.58
360.0	1019.81	997.88	975.38	954.56	930.38	905.63	849.94	743.06	640.13

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	529.31	402.75	290.81	173.03	93.83	45.79	34.82	28.86	23.79
45.0	413.44	295.31	180.79	97.43	49.89	33.13	26.78	21.88	19.13
90.0	353.93	235.52	142.43	66.15	37.13	30.66	23.96	20.53	17.33
135.0	414.56	291.94	227.36	99.23	46.24	34.71	26.72	21.04	18.28
180.0	374.85	255.21	160.65	77.74	39.71	31.61	23.96	19.58	16.88
225.0	465.19	355.28	238.50	142.93	66.32	36.28	30.54	23.40	19.18
270.0	538.31	411.75	288.56	224.27	107.78	44.83	33.92	28.46	21.77
315.0	469.69	345.77	242.49	137.31	65.14	39.43	34.09	26.49	23.23
360.0	529.31	402.75	290.81	173.03	93.83	45.79	34.82	28.86	23.79

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	21.04	15.13	14.51	14.18	13.78	13.44	13.22	12.94	12.71
45.0	14.85	14.34	13.95	13.67	13.44	13.22	12.94	12.77	12.49
90.0	14.63	14.23	13.89	13.67	13.39	13.11	12.88	12.66	12.49
135.0	14.96	14.51	14.18	13.78	13.50	13.28	13.05	12.77	12.60
180.0	14.63	14.18	13.89	13.61	13.33	13.05	12.83	12.66	12.43
225.0	16.99	14.85	14.46	13.89	13.61	13.33	13.11	12.83	12.66
270.0	19.63	16.65	14.85	14.46	13.95	13.56	13.33	13.11	12.83
315.0	20.36	14.79	14.40	14.06	13.73	13.44	13.22	12.94	12.71
360.0	21.04	15.13	14.51	14.18	13.78	13.44	13.22	12.94	12.71

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.49	12.32	12.09	11.93	11.81	11.59	11.53	11.36	11.31
45.0	12.32	12.09	11.98	11.81	11.70	11.53	11.48	11.36	11.25
90.0	12.26	12.09	11.98	11.81	11.64	11.53	11.42	11.31	11.19
135.0	12.38	12.15	11.98	11.81	11.70	11.59	11.48	11.36	11.25
180.0	12.21	12.04	11.87	11.76	11.59	11.53	11.36	11.25	11.19
225.0	12.43	12.21	12.04	11.87	11.70	11.59	11.48	11.36	11.25
270.0	12.60	12.43	12.21	12.04	11.93	11.76	11.59	11.48	11.36
315.0	12.49	12.32	12.15	11.98	11.76	11.64	11.53	11.42	11.31
360.0	12.49	12.32	12.09	11.93	11.81	11.59	11.53	11.36	11.31

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.19	11.14	11.03	10.91	10.91	10.80	10.80	10.69	10.69
45.0	11.14	11.08	10.97	10.91	10.86	10.80	10.74	10.74	10.69
90.0	11.14	11.03	10.91	10.86	10.80	10.74	10.69	10.63	10.63
135.0	11.19	11.08	10.97	10.91	10.86	10.80	10.69	10.69	10.63
180.0	11.08	11.03	10.91	10.86	10.74	10.74	10.63	10.69	10.63
225.0	11.19	11.08	11.03	10.97	10.80	10.80	10.74	10.69	10.63
270.0	11.31	11.19	11.08	11.03	10.91	10.80	10.80	10.74	10.69
315.0	11.25	11.14	11.03	10.91	10.86	10.80	10.74	10.69	10.63
360.0	11.19	11.14	11.03	10.91	10.91	10.80	10.80	10.69	10.69

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.63	10.63	10.63	10.58	10.58	10.52	10.52	10.52	10.46
45.0	10.63	10.58	10.58	10.58	10.52	10.52	10.52	10.46	10.46
90.0	10.58	10.58	10.52	10.52	10.46	10.46	10.46	10.41	10.41
135.0	10.63	10.58	10.58	10.52	10.52	10.52	10.46	10.46	10.46
180.0	10.58	10.52	10.52	10.52	10.46	10.46	10.46	10.41	10.41
225.0	10.58	10.58	10.58	10.52	10.52	10.52	10.52	10.46	10.46
270.0	10.69	10.63	10.58	10.58	10.52	10.52	10.52	10.52	10.46
315.0	10.63	10.63	10.58	10.52	10.52	10.52	10.52	10.46	10.46
360.0	10.63	10.63	10.63	10.58	10.58	10.52	10.52	10.52	10.46

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.46	10.46	10.41	10.46	10.46	10.58	10.80	10.46	10.35
45.0	10.46	10.46	10.41	10.41	10.41	10.41	10.35	10.35	10.29
90.0	10.41	10.41	10.41	10.35	10.35	10.35	10.29	10.35	10.29
135.0	10.41	10.41	10.41	10.35	10.35	10.35	10.29	10.35	10.35
180.0	10.41	10.35	10.41	10.41	10.35	10.35	10.35	10.35	10.35
225.0	10.41	10.46	10.41	10.41	10.35	10.35	10.35	10.29	10.29
270.0	10.46	10.46	10.41	10.41	10.41	10.41	10.35	10.35	10.29
315.0	10.46	10.41	10.41	10.41	10.41	10.46	10.46	10.35	10.35
360.0	10.46	10.46	10.41	10.46	10.46	10.58	10.80	10.46	10.35

Intensity data(cd)

C/γ(°)	90.0
0.0	10.29
45.0	10.35
90.0	10.35
135.0	10.35
180.0	10.29
225.0	10.29
270.0	10.35
315.0	10.35
360.0	10.29