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Nata

LumCAT: 2-1258-N
Luminaire: 92.70.065.00+92.70.059.00

Report No: NATA0100	Voltage(V): 34.7000
Test No: GC2018091117	Current(A): 0.5000
LampCAT: LUMINUS CXM-11-AC30	Power (W): 17.3500
Lamp flux(lm): 2557.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 70	Width(mm): 70
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2000.50
Efficiency(%): 78.24%
Lumens(lm)/Power(W): 115.49
Central intensity(cd): 14239.690
Maximum intensity(cd): 14239.690
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=16.7
[C90/270]Total=16.7
Field angle(10%Imax): [C0/180]Total=31.1
[C90/270]Total=31.1
Maximum s/h(1/2): C0_180=0.29 C90_270=0.29
Maximum s/h(1/4): C0_180=0.27 C90_270=0.27
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 78.37%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.562%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	14239.688	3.407	3.407	.133%	.170%
1.0	14173.594	27.126	30.533	1.061%	1.526%
2.0	13985.859	53.525	84.058	2.093%	4.202%
3.0	13568.906	77.875	161.933	3.046%	8.095%
4.0	12828.516	98.132	260.065	3.838%	13.000%
5.0	11920.641	113.932	373.998	4.456%	18.695%
6.0	10683.703	122.464	496.462	4.789%	24.817%
7.0	9184.781	122.748	619.21	4.800%	30.953%
8.0	7683.188	117.260	736.47	4.586%	36.814%
9.0	6026.555	103.384	839.854	4.043%	41.982%
10.0	4617.281	87.924	927.778	3.439%	46.377%
11.0	3595.641	75.236	1003.014	2.942%	50.138%
12.0	2842.594	64.811	1067.824	2.535%	53.378%
13.0	2289.727	56.484	1124.308	2.209%	56.201%
14.0	1801.969	47.805	1172.113	1.870%	58.591%
15.0	1531.969	43.481	1215.594	1.700%	60.765%
16.0	1336.008	40.383	1255.977	1.579%	62.783%
17.0	1184.048	37.963	1293.94	1.485%	64.681%
18.0	1074.593	36.415	1330.355	1.424%	66.501%
19.0	983.292	35.106	1365.46	1.373%	68.256%
20.0	900.816	33.786	1399.246	1.321%	69.945%
21.0	827.677	32.527	1431.773	1.272%	71.571%
22.0	763.327	31.357	1463.13	1.226%	73.138%
23.0	706.873	30.288	1493.418	1.185%	74.652%
24.0	652.584	29.107	1522.526	1.138%	76.107%
25.0	599.435	27.781	1550.306	1.086%	77.496%
26.0	553.507	26.608	1576.915	1.041%	78.826%
27.0	508.648	25.323	1602.238	.990%	80.092%
28.0	465.448	23.962	1626.2	.937%	81.290%
29.0	426.263	22.662	1648.862	.886%	82.423%
30.0	391.507	21.467	1670.329	.840%	83.496%
31.0	356.070	20.111	1690.439	.786%	84.501%
32.0	325.863	18.936	1709.376	.741%	85.448%
33.0	300.621	17.955	1727.331	.702%	86.345%
34.0	278.205	17.060	1744.391	.667%	87.198%
35.0	256.732	16.148	1760.539	.632%	88.005%
36.0	234.738	15.131	1775.669	.592%	88.761%
37.0	219.389	14.479	1790.148	.566%	89.485%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	203.597	13.746	1803.894	.538%	90.172%
39.0	190.688	13.160	1817.053	.515%	90.830%
40.0	177.370	12.503	1829.556	.489%	91.455%
41.0	162.900	11.720	1841.276	.458%	92.041%
42.0	149.084	10.939	1852.215	.428%	92.588%
43.0	136.245	10.190	1862.404	.398%	93.097%
44.0	124.411	9.477	1871.882	.371%	93.571%
45.0	113.646	8.812	1880.694	.345%	94.011%
46.0	103.753	8.184	1888.878	.320%	94.421%
47.0	93.713	7.516	1896.394	.294%	94.796%
48.0	85.598	6.976	1903.37	.273%	95.145%
49.0	77.660	6.427	1909.797	.251%	95.466%
50.0	70.348	5.910	1915.707	.231%	95.762%
51.0	64.455	5.493	1921.2	.215%	96.036%
52.0	58.915	5.091	1926.291	.199%	96.291%
53.0	53.613	4.695	1930.986	.184%	96.525%
54.0	48.973	4.345	1935.331	.170%	96.743%
55.0	44.564	4.003	1939.334	.157%	96.943%
56.0	40.163	3.651	1942.986	.143%	97.125%
57.0	36.703	3.376	1946.361	.132%	97.294%
58.0	33.363	3.103	1949.464	.121%	97.449%
59.0	30.466	2.864	1952.328	.112%	97.592%
60.0	27.921	2.652	1954.979	.104%	97.725%
61.0	25.474	2.443	1957.423	.096%	97.847%
62.0	23.428	2.268	1959.691	.089%	97.960%
63.0	21.776	2.128	1961.819	.083%	98.067%
64.0	20.341	2.005	1963.824	.078%	98.167%
65.0	19.406	1.929	1965.752	.075%	98.263%
66.0	18.745	1.878	1967.63	.073%	98.357%
67.0	18.127	1.830	1969.46	.072%	98.449%
68.0	17.571	1.787	1971.246	.070%	98.538%
69.0	17.072	1.748	1972.994	.068%	98.625%
70.0	16.594	1.710	1974.704	.067%	98.711%
71.0	16.144	1.674	1976.378	.065%	98.794%
72.0	15.729	1.640	1978.018	.064%	98.876%
73.0	15.363	1.611	1979.63	.063%	98.957%
74.0	14.991	1.580	1981.21	.062%	99.036%
75.0	14.632	1.550	1982.76	.061%	99.113%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.238	1.515	1984.275	.059%	99.189%
77.0	13.887	1.484	1985.759	.058%	99.263%
78.0	13.500	1.448	1987.207	.057%	99.336%
79.0	13.050	1.405	1988.611	.055%	99.406%
80.0	12.565	1.357	1989.968	.053%	99.474%
81.0	12.122	1.313	1991.281	.051%	99.539%
82.0	11.623	1.262	1992.543	.049%	99.602%
83.0	11.102	1.208	1993.752	.047%	99.663%
84.0	10.659	1.163	1994.914	.045%	99.721%
85.0	10.181	1.112	1996.027	.043%	99.777%
86.0	9.731	1.065	1997.091	.042%	99.830%
87.0	9.260	1.014	1998.105	.040%	99.880%
88.0	8.902	0.976	1999.081	.038%	99.929%
89.0	8.634	0.947	2000.027	.037%	99.977%
90.0	8.543	0.468	2000.496	.018%	100.000%

Zonal flux distribution table

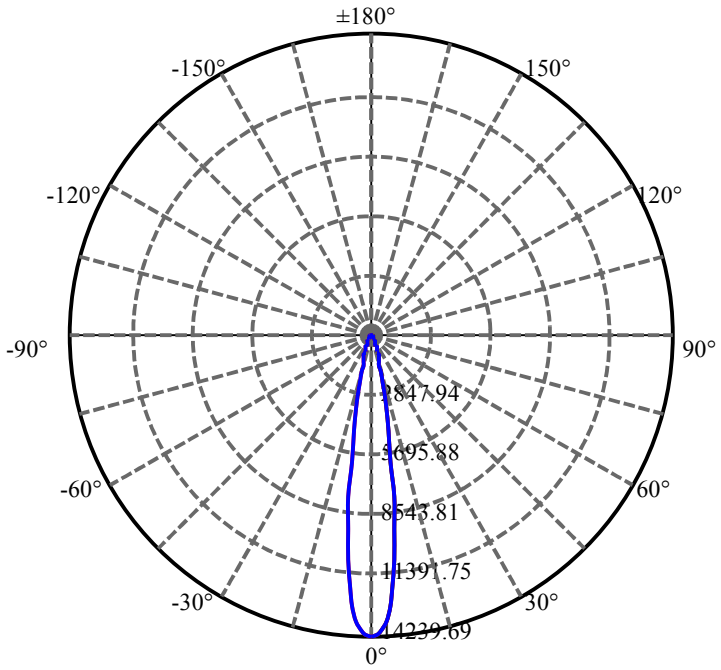
ZONAL LUMEN SUMMARY

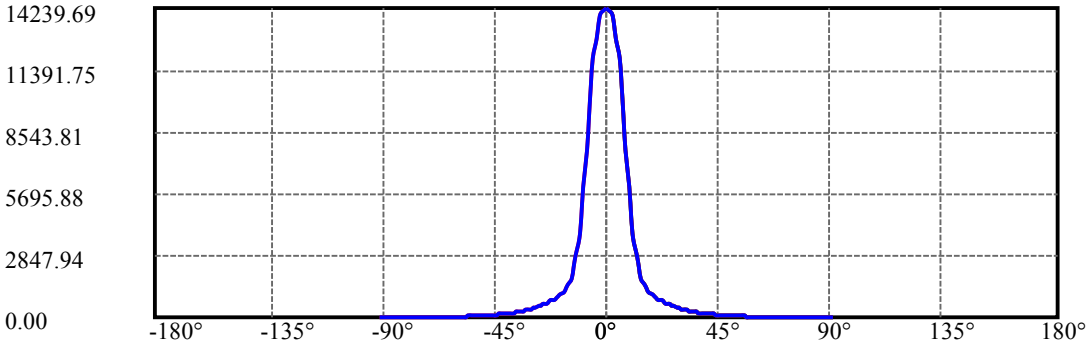
Zone	Lumens	%Lamp	%Fixt
0-30	1670.33	65.32%	83.50%
0-40	1829.56	71.55%	91.46%
0-60	1954.98	76.46%	97.72%
0-90	2000.03	78.22%	99.98%
0-120	2000.03	78.22%	99.98%
0-180	2000.50	78.24%	100.00%
60-90	47.70	1.87%	2.38%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.93	1600.40	62.59%	80.00%

ZONAL LUMEN SUMMARY

0-10	927.78
10-20	471.47
20-30	271.08
30-40	159.23
40-50	86.15
50-60	39.27
60-70	19.72
70-80	15.26
80-90	10.06
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):

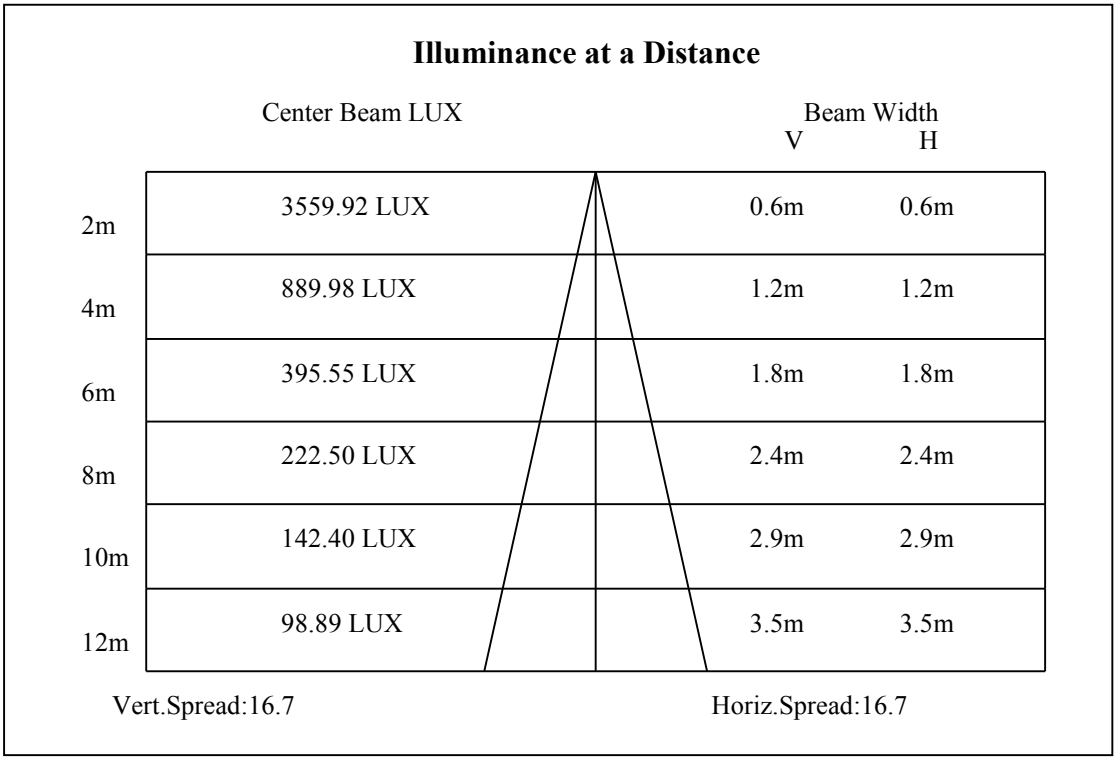
C0/C180:

C90/C270:

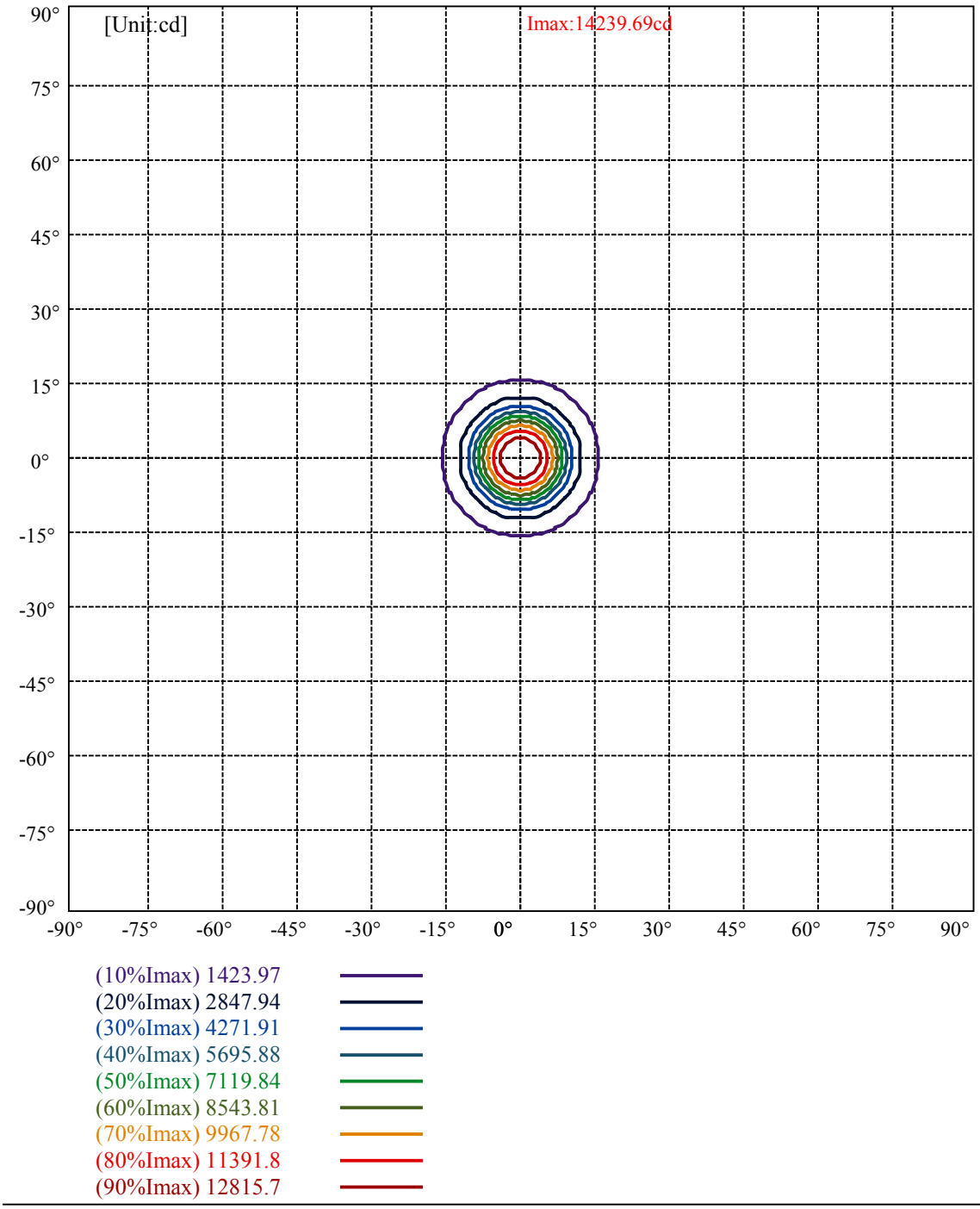
Field angle(10%Imax):C0/180Left:15.6 Right:15.6
:C90/270Left:15.6 Right:15.6

Beam Angle(50%Imax):C0/180Left:8.3 Right:8.3
:C90/270Left:8.3 Right:8.3

Lux distance Curve



ISO-Intensity(V-H)

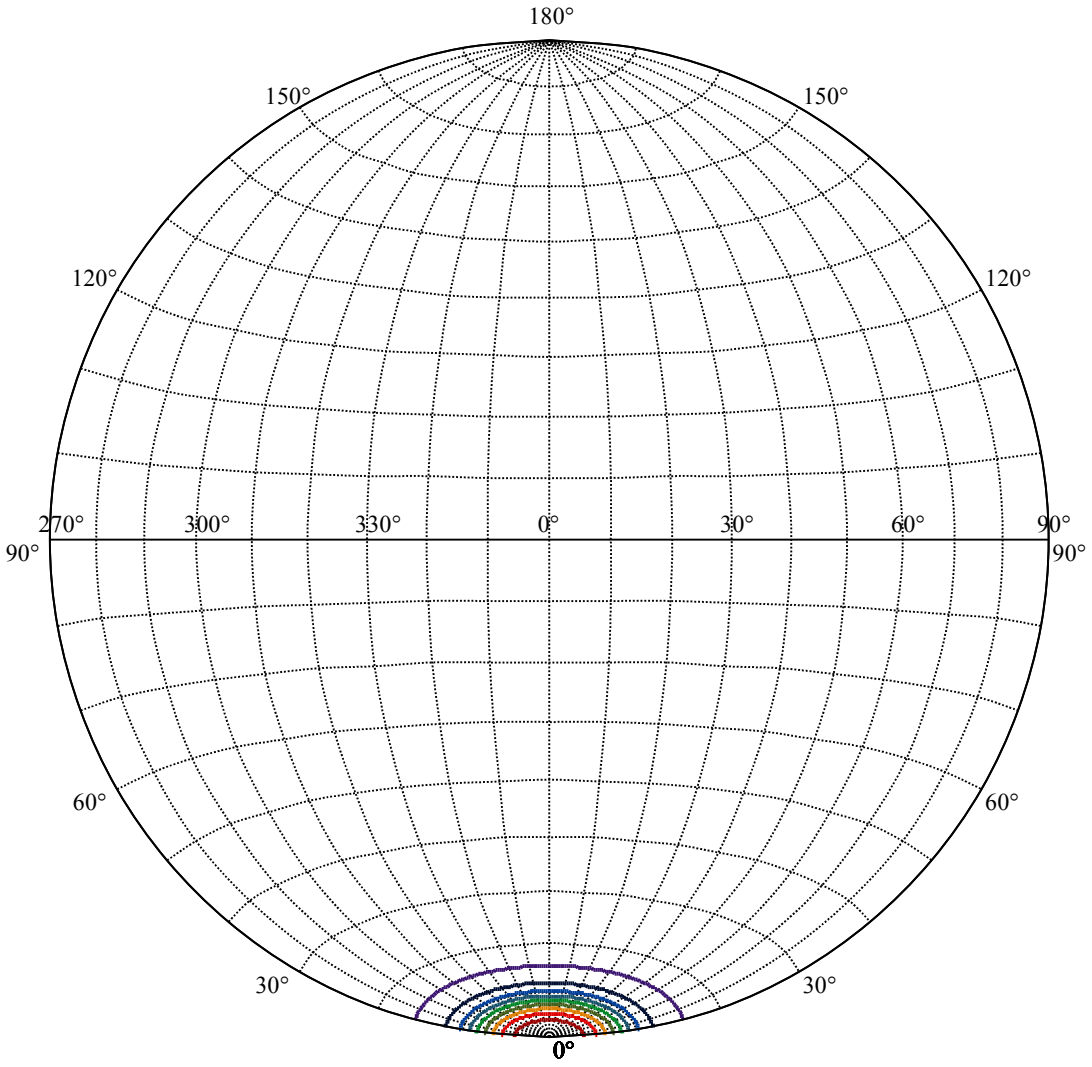


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



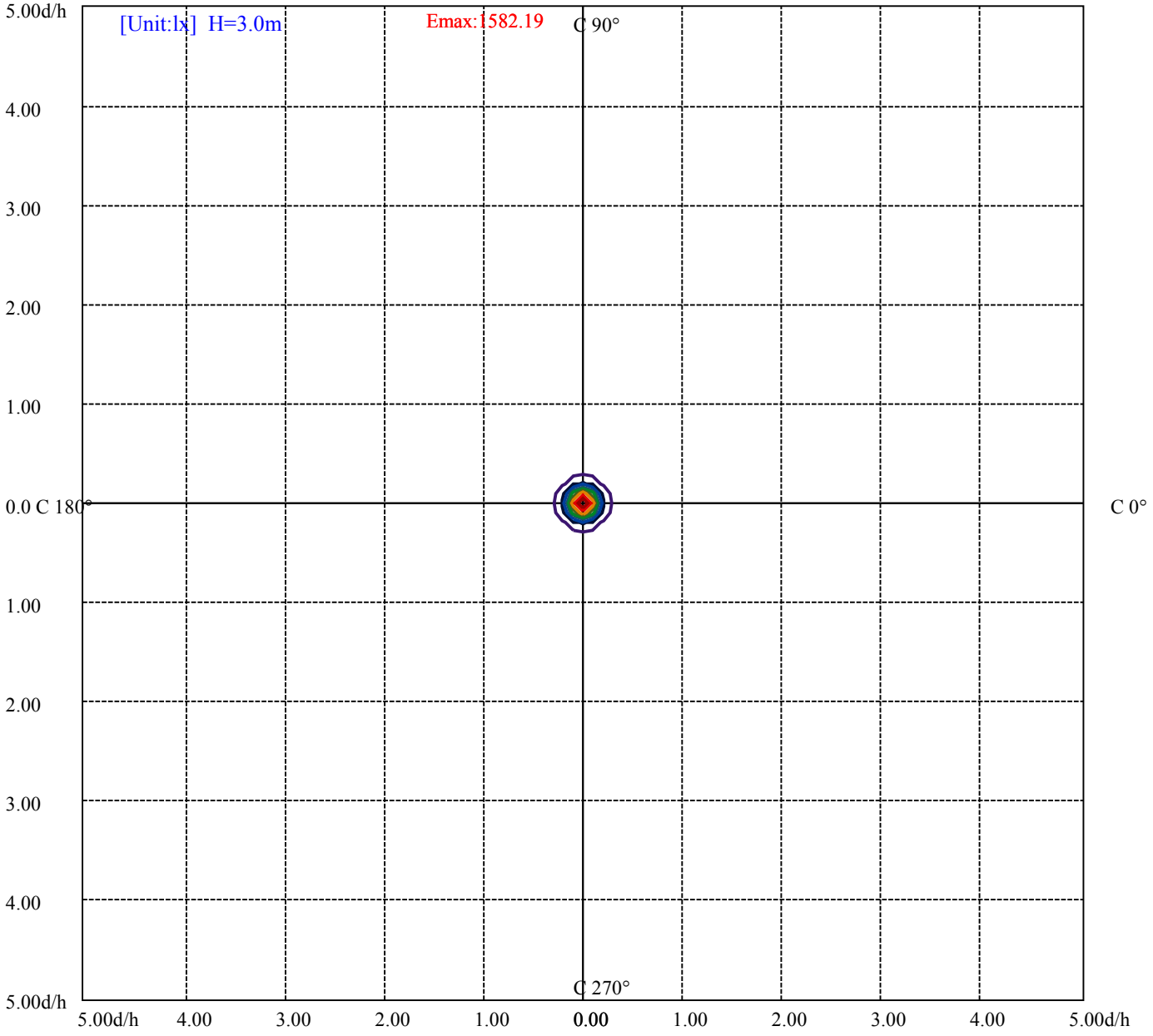
House [Unit:cd] Road

Imax:14239.69

(10%Imax) 1423.97
(20%Imax) 2847.94
(30%Imax) 4271.91
(40%Imax) 5695.88
(50%Imax) 7119.84
(60%Imax) 8543.81
(70%Imax) 9967.78
(80%Imax) 11391.8
(90%Imax) 12815.7

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

ISO illuminance diagram

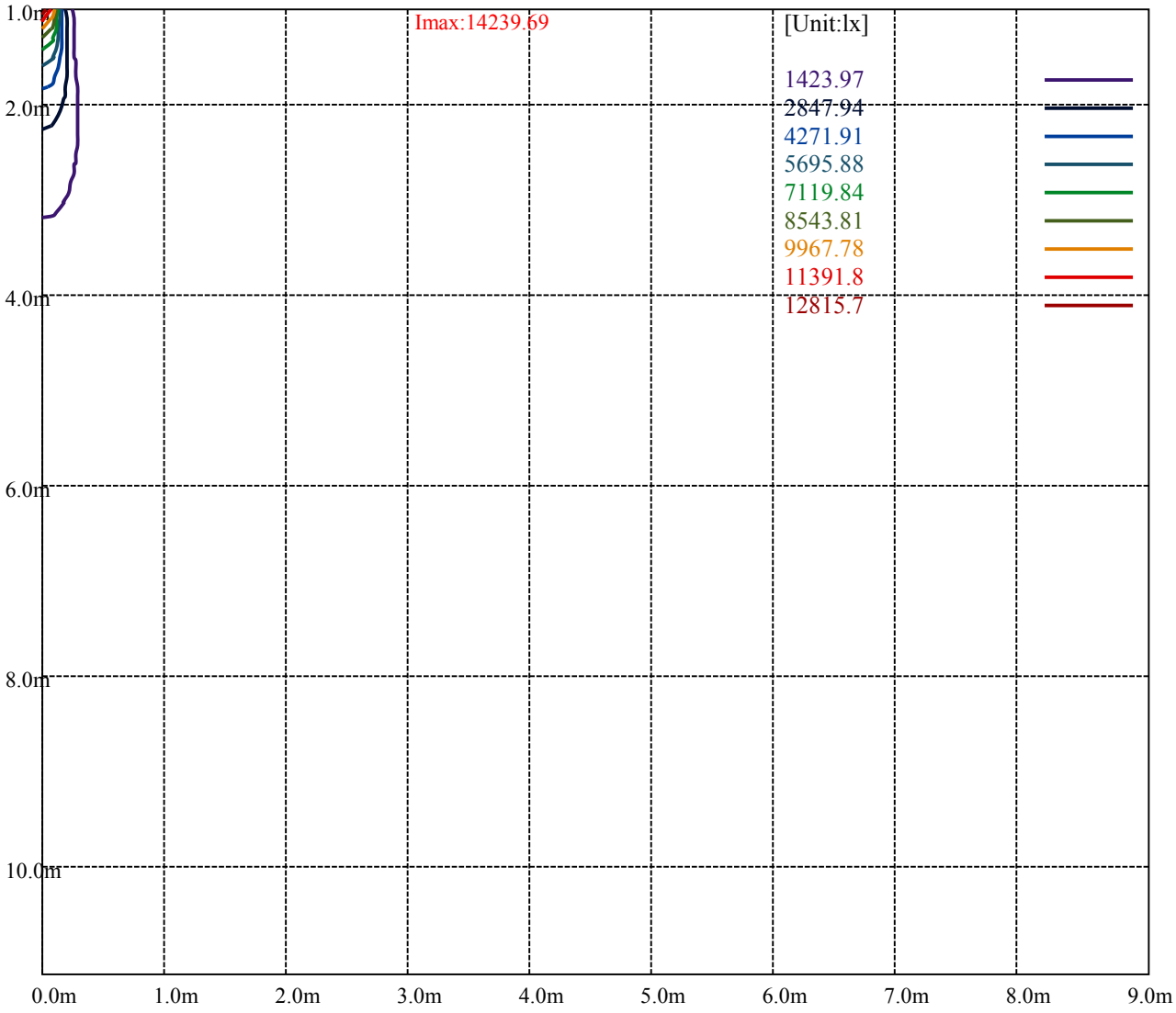


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/11
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

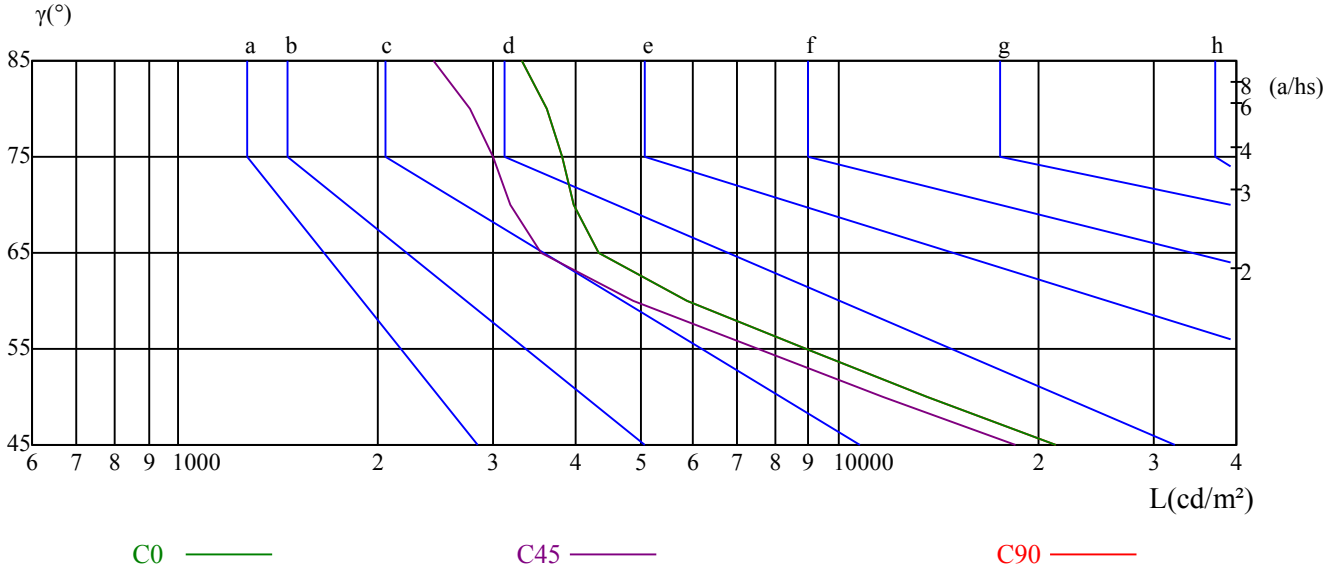
γ	45	50	55	60	65	70	75	80	85
C0	21259	13561	8932	5874	4330	3974	3813	3621	3309
C45	18555	11664	7563	4892	3541	3184	2985	2758	2439
C90	21259	13561	8932	5874	4330	3974	3813	3621	3309

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9371	9371	9371	11538	11538	11538	23840	23840	23840

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

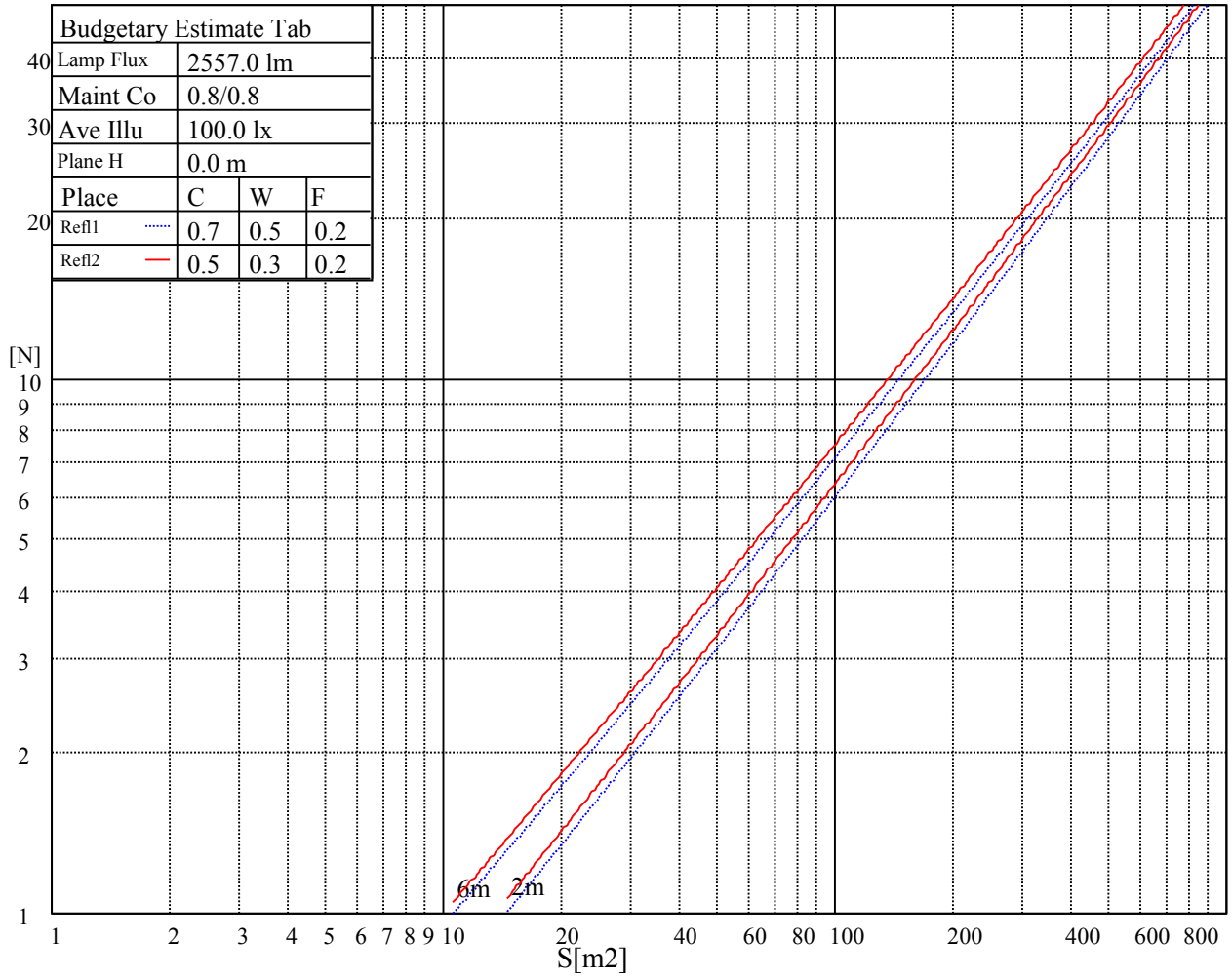
Illumination assessment according UGR

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	10.06	11.06	10.43	11.37	11.68	10.20	11.19	10.56	11.50	11.82
	3H	10.76	11.64	11.14	11.97	12.34	10.87	11.75	11.26	12.09	12.46
	4H	11.19	12.00	11.59	12.35	12.74	11.29	12.10	11.70	12.46	12.85
	6H	11.64	12.39	12.06	12.76	13.16	11.74	12.48	12.16	12.86	13.25
	8H	11.86	12.56	12.29	12.95	13.36	11.95	12.65	12.39	13.04	13.45
	12H	12.21	12.88	12.65	13.26	13.70	12.30	12.97	12.74	13.35	13.78
4H	2H	10.07	10.88	10.48	11.24	11.63	10.20	11.01	10.60	11.36	11.75
	3H	11.00	11.67	11.42	12.08	12.48	11.10	11.77	11.52	12.18	12.58
	4H	11.58	12.18	12.02	12.60	13.05	11.67	12.26	12.11	12.69	13.14
	6H	12.11	12.62	12.59	13.07	13.55	12.20	12.70	12.67	13.16	13.63
	8H	12.43	12.90	12.90	13.35	13.83	12.50	12.98	12.98	13.43	13.91
	12H	12.85	13.26	13.34	13.75	14.23	12.92	13.33	13.41	13.82	14.30
8H	4H	11.72	12.19	12.19	12.64	13.12	11.80	12.27	12.27	12.72	13.20
	6H	12.43	12.80	12.94	13.31	13.79	12.50	12.88	13.01	13.38	13.87
	8H	12.85	13.19	13.39	13.71	14.21	12.92	13.26	13.46	13.78	14.28
	12H	13.46	13.75	13.98	14.25	14.83	13.52	13.81	14.04	14.31	14.89
12H	4H	11.72	12.13	12.21	12.62	13.10	11.80	12.21	12.29	12.70	13.18
	6H	12.76	12.82	13.02	13.29	13.84	12.83	12.89	13.09	13.36	13.91
	8H	12.98	13.27	13.50	13.77	14.35	13.05	13.34	13.57	13.84	14.41

Variation with the observer position at spacings:

S = 1.0H	1.8/-2.3	1.8/-2.3
S = 1.5H	3.2/-2.8	3.2/-2.8
S = 2.0H	4.8/-2.6	4.8/-2.6
Standard tables:	BK3	BK3
Uncorrected UGR	-1.1	-1.1

Budgetary Estimate Table

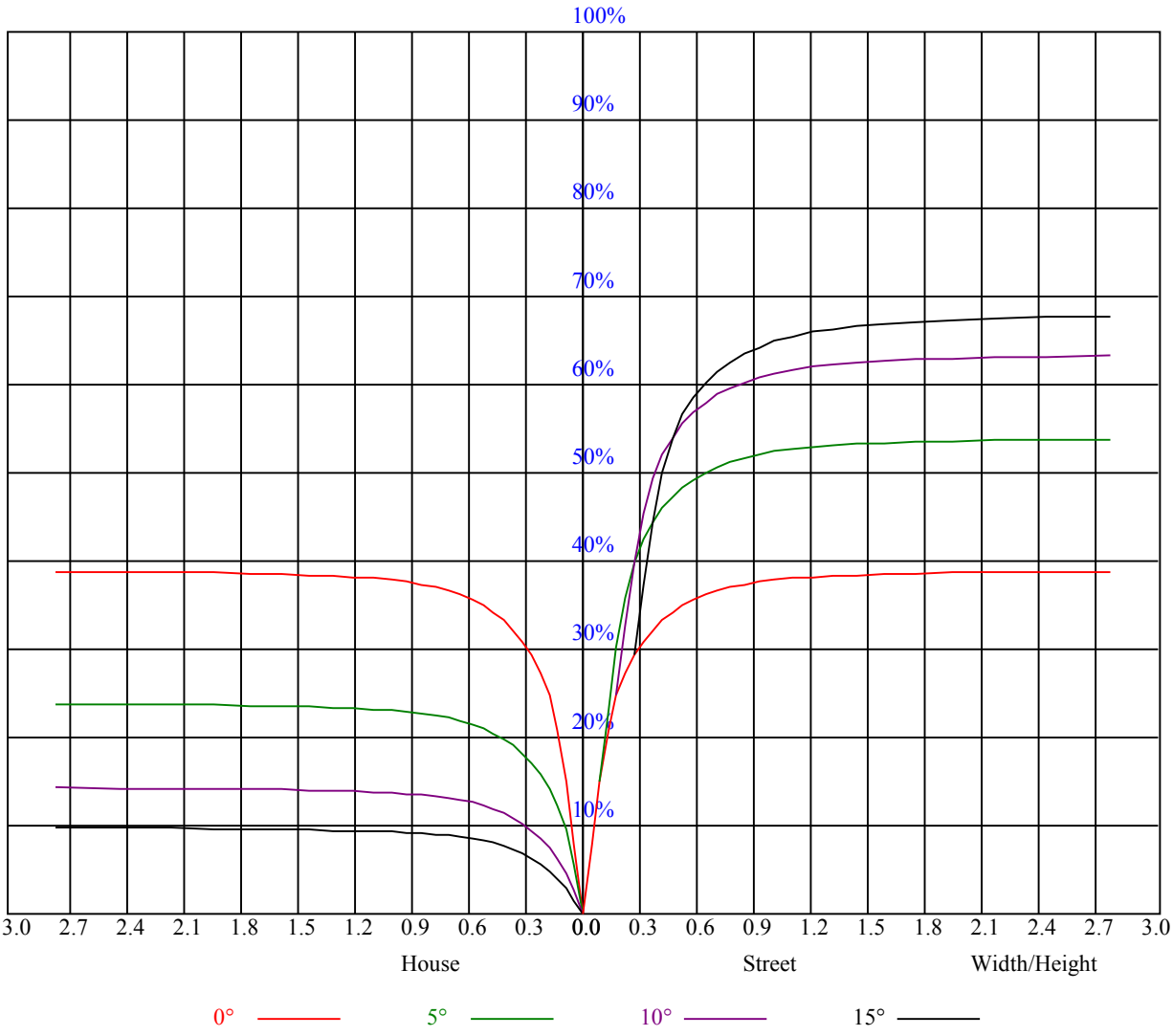


Equipment: GMS1980 Date: 2018/9/11 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.50

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	0.93	0.93	0.93	0.91	0.91	0.91	0.87	0.87	0.87	0.83	0.83	0.83	0.80	0.80	0.80	0.78
1	0.88	0.86	0.84	0.86	0.84	0.83	0.83	0.82	0.80	0.80	0.79	0.78	0.77	0.77	0.76	0.75
2	0.83	0.80	0.78	0.82	0.79	0.77	0.79	0.77	0.76	0.77	0.75	0.74	0.75	0.74	0.73	0.71
3	0.79	0.76	0.73	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.71	0.73	0.71	0.70	0.68
4	0.76	0.72	0.70	0.75	0.72	0.69	0.73	0.71	0.68	0.72	0.70	0.68	0.70	0.69	0.67	0.66
5	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.68	0.66	0.65	0.64
6	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.64	0.63	0.62
7	0.68	0.64	0.62	0.67	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.65	0.63	0.61	0.60
8	0.66	0.62	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.64	0.61	0.59	0.63	0.61	0.59	0.58
9	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.62	0.59	0.58	0.57
10	0.62	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.57	0.61	0.58	0.57	0.60	0.58	0.56	0.56

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	14242.50	14118.75	13848.75	13393.13	12555.00	11418.75	10175.63	8544.38	7053.75
45.0	14236.88	14236.88	14135.63	13927.50	13460.63	12673.13	11711.25	10310.63	8842.50
90.0	14248.13	14203.13	14073.75	13674.38	13083.75	11986.88	10842.75	9446.63	7905.38
135.0	14231.25	14248.13	14163.75	13938.75	13488.75	12701.25	11767.50	10395.00	8943.75
180.0	14242.50	14248.13	14130.00	13843.13	13336.88	12600.00	11138.06	9961.31	8435.81
225.0	14236.88	14090.63	13809.38	13117.50	12009.38	11142.00	9649.13	7949.25	6447.38
270.0	14248.13	14175.00	13944.38	13516.88	12723.75	11632.50	10423.13	8780.63	7250.63
315.0	14231.25	14068.13	13781.25	13140.00	11970.00	11210.63	9762.19	8090.44	6586.31
360.0	14242.50	14118.75	13848.75	13393.13	12555.00	11418.75	10175.63	8544.38	7053.75

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5501.25	4190.63	3285.00	2846.25	2152.69	1746.56	1519.88	1341.56	1173.38
45.0	7143.75	5540.63	4331.25	3375.00	2902.50	2081.81	1760.06	1476.00	1313.44
90.0	6005.25	4668.75	3597.75	2626.31	2154.38	1723.50	1418.63	1272.94	1112.46
135.0	7222.50	5608.13	4359.38	3363.75	2874.38	2022.75	1685.81	1423.13	1245.94
180.0	6700.50	5131.69	4003.31	3031.88	2427.19	1947.38	1626.19	1413.56	1254.38
225.0	4947.75	3737.25	2935.13	2295.00	1908.00	1606.50	1389.38	1243.69	1111.11
270.0	5636.25	4241.25	3273.75	2885.63	1971.56	1660.50	1442.81	1256.06	1148.06
315.0	5055.19	3819.94	2979.56	2316.94	1927.13	1626.75	1413.00	1261.13	1113.64
360.0	5501.25	4190.63	3285.00	2846.25	2152.69	1746.56	1519.88	1341.56	1173.38

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1068.75	979.88	885.94	821.25	763.31	703.69	647.44	599.06	548.44
45.0	1179.56	1056.38	955.13	881.44	799.31	737.44	682.88	626.63	581.63
90.0	1045.46	962.66	894.26	822.04	755.72	702.39	651.38	592.14	547.99
135.0	1123.88	1026.00	928.69	860.63	794.81	732.38	672.75	631.13	575.44
180.0	1083.54	1001.25	920.98	826.20	772.99	718.31	662.46	610.54	566.21
225.0	1015.09	920.81	849.04	776.59	711.84	659.25	612.23	557.66	516.66
270.0	1061.44	979.88	902.25	838.69	772.31	717.75	657.56	601.88	556.31
315.0	1019.03	939.49	870.24	794.59	736.31	683.78	633.99	576.45	535.39
360.0	1068.75	979.88	885.94	821.25	763.31	703.69	647.44	599.06	548.44

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	499.50	459.00	418.50	385.31	350.44	320.63	295.88	284.06	246.77
45.0	534.38	490.50	452.25	416.25	375.19	346.50	318.94	290.25	284.63
90.0	507.26	458.49	421.03	387.39	353.25	322.09	297.11	272.19	252.62
135.0	529.31	490.50	447.75	410.63	373.50	339.75	312.19	289.13	269.94
180.0	520.76	481.11	435.83	396.28	364.11	332.61	306.96	280.86	260.44
225.0	477.23	436.39	398.53	367.31	335.08	306.51	283.73	261.00	243.11
270.0	506.81	462.94	425.81	392.06	354.38	326.25	302.06	284.63	252.39
315.0	493.93	444.66	410.40	376.82	342.62	312.58	288.11	263.53	243.96
360.0	499.50	459.00	418.50	385.31	350.44	320.63	295.88	284.06	246.77

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	229.11	214.09	197.44	185.85	172.41	158.34	145.18	134.78	122.79
45.0	248.79	234.79	214.43	200.59	190.35	173.64	157.16	146.03	132.02
90.0	233.72	217.41	204.53	191.76	178.20	163.52	149.68	134.78	123.75
135.0	243.06	227.70	209.19	196.26	184.95	170.49	154.58	142.03	129.32
180.0	237.77	221.85	207.62	191.98	179.94	166.28	153.00	138.21	127.24
225.0	224.72	209.76	195.69	183.94	166.16	152.94	140.96	127.01	116.66
270.0	235.07	220.56	203.79	192.32	179.10	163.24	148.84	137.53	124.76
315.0	225.68	208.97	196.09	182.81	167.85	154.74	143.27	129.60	118.74
360.0	229.11	214.09	197.44	185.85	172.41	158.34	145.18	134.78	122.79

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	111.94	102.94	93.15	85.39	77.23	70.03	64.18	59.06	53.27
45.0	120.09	111.32	99.90	91.24	83.64	75.15	68.96	63.34	56.93
90.0	113.68	102.94	93.21	85.22	77.01	69.81	64.07	58.28	53.49
135.0	117.34	107.83	97.71	89.38	80.94	73.07	67.05	61.48	55.35
180.0	117.28	107.10	97.43	88.31	81.06	73.46	67.50	61.09	56.14
225.0	106.99	96.47	86.91	79.54	72.06	65.93	59.85	54.62	50.29
270.0	113.18	103.39	93.04	84.83	76.16	68.96	63.11	57.94	52.26
315.0	108.68	98.04	88.37	80.89	73.18	66.38	60.92	55.52	51.19
360.0	111.94	102.94	93.15	85.39	77.23	70.03	64.18	59.06	53.27

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	48.99	44.78	39.94	36.51	33.41	30.32	27.45	25.26	23.06
45.0	52.26	47.98	42.75	39.04	36.00	32.57	29.70	27.39	24.92
90.0	48.66	44.04	40.05	36.62	32.79	30.21	27.79	25.09	23.23
135.0	50.85	46.74	41.63	37.97	35.10	31.78	29.14	26.83	24.58
180.0	51.02	46.29	42.19	38.48	34.48	31.78	29.19	26.33	24.30
225.0	45.62	41.06	37.52	34.31	30.88	28.41	26.21	23.74	22.05
270.0	47.93	43.82	39.15	35.94	32.96	29.93	27.34	25.20	23.06
315.0	46.46	41.79	38.08	34.76	31.28	28.74	26.55	23.96	22.22
360.0	48.99	44.78	39.94	36.51	33.41	30.32	27.45	25.26	23.06

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.38	20.14	19.29	18.68	18.00	17.44	16.93	16.48	15.98
45.0	23.12	21.15	19.97	19.13	18.45	17.83	17.33	16.88	16.37
90.0	21.60	20.08	19.18	18.56	17.94	17.44	16.93	16.43	16.03
135.0	22.78	21.09	19.91	19.18	18.56	17.94	17.49	16.99	16.48
180.0	22.44	20.76	19.69	19.01	18.39	17.83	17.33	16.76	16.37
225.0	20.70	19.69	18.90	18.34	17.78	17.27	16.76	16.31	15.92
270.0	21.43	20.08	19.29	18.68	18.06	17.49	17.04	16.65	16.14
315.0	20.76	19.74	19.01	18.39	17.83	17.33	16.76	16.26	15.86
360.0	21.38	20.14	19.29	18.68	18.00	17.44	16.93	16.48	15.98

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.64	15.30	14.91	14.57	14.18	13.84	13.39	12.99	12.49
45.0	15.98	15.64	15.24	14.85	14.51	14.12	13.73	13.33	12.83
90.0	15.53	15.13	14.74	14.40	13.95	13.61	13.28	12.83	12.32
135.0	16.03	15.69	15.24	14.85	14.51	14.12	13.73	13.28	12.83
180.0	15.92	15.47	15.13	14.79	14.34	14.01	13.67	13.22	12.77
225.0	15.53	15.13	14.79	14.46	14.06	13.73	13.33	12.77	12.32
270.0	15.75	15.41	15.08	14.68	14.34	14.01	13.56	13.16	12.66
315.0	15.47	15.13	14.79	14.46	14.01	13.67	13.33	12.83	12.32
360.0	15.64	15.30	14.91	14.57	14.18	13.84	13.39	12.99	12.49

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.98	11.48	10.91	10.52	10.07	9.56	9.17	8.78	8.61
45.0	12.38	11.93	11.36	10.91	10.41	9.96	9.51	9.06	8.78
90.0	11.93	11.42	10.97	10.52	10.07	9.68	9.23	8.94	8.66
135.0	12.38	11.87	11.25	10.86	10.29	9.90	9.51	9.06	8.72
180.0	12.32	11.81	11.31	10.74	10.35	9.90	9.34	9.00	8.66
225.0	11.87	11.36	10.86	10.46	9.96	9.51	9.00	8.72	8.49
270.0	12.21	11.70	11.19	10.74	10.24	9.79	9.28	8.89	8.61
315.0	11.93	11.42	10.97	10.52	10.07	9.56	9.06	8.78	8.55
360.0	11.98	11.48	10.91	10.52	10.07	9.56	9.17	8.78	8.61

Intensity data(cd)

C/γ(°)	90.0
0.0	8.55
45.0	8.55
90.0	8.55
135.0	8.55
180.0	8.55
225.0	8.49
270.0	8.55
315.0	8.55
360.0	8.55