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Nata

LumCAT: 3-1701-N
Luminaire: 92.70.065.00+92.70.061.00

Report No: NATA0100	Voltage(V): 34.6000
Test No: GC2018091110	Current(A): 0.5000
LampCAT: LUMINUS CXM-11-AC30	Power (W): 17.3000
Lamp flux(lm): 2557.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 86	Width(mm): 86
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2049.18
Efficiency(%): 80.14%
Lumens(lm)/Power(W): 118.66
Central intensity(cd): 15623.440
Maximum intensity(cd): 15623.440
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=16.0
[C90/270]Total=16.0
Field angle(10%Imax): [C0/180]Total=29.1
[C90/270]Total=29.1
Maximum s/h(1/2): C0_180=0.28 C90_270=0.28
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(%): 80.28%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.388%

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

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	15623.438	3.738	3.738	.146%	.182%
1.0	15401.953	29.477	33.215	1.153%	1.621%
2.0	14796.563	56.628	89.843	2.215%	4.384%
3.0	13847.344	79.473	169.316	3.108%	8.263%
4.0	12665.039	96.882	266.198	3.789%	12.990%
5.0	11626.383	111.120	377.318	4.346%	18.413%
6.0	10274.555	117.774	495.092	4.606%	24.160%
7.0	9097.172	121.577	616.669	4.755%	30.093%
8.0	7842.867	119.697	736.365	4.681%	35.935%
9.0	6371.367	109.299	845.665	4.275%	41.268%
10.0	4867.313	92.685	938.35	3.625%	45.791%
11.0	3743.789	78.336	1016.686	3.064%	49.614%
12.0	2709.773	61.782	1078.468	2.416%	52.629%
13.0	2075.695	51.204	1129.672	2.003%	55.128%
14.0	1723.641	45.727	1175.399	1.788%	57.359%
15.0	1435.212	40.735	1216.134	1.593%	59.347%
16.0	1293.476	39.097	1255.231	1.529%	61.255%
17.0	1181.468	37.880	1293.111	1.481%	63.104%
18.0	1084.296	36.744	1329.855	1.437%	64.897%
19.0	1006.397	35.930	1365.785	1.405%	66.650%
20.0	936.830	35.137	1400.922	1.374%	68.365%
21.0	864.795	33.986	1434.908	1.329%	70.023%
22.0	800.114	32.868	1467.776	1.285%	71.627%
23.0	736.017	31.537	1499.313	1.233%	73.166%
24.0	670.577	29.910	1529.223	1.170%	74.626%
25.0	616.732	28.582	1557.805	1.118%	76.021%
26.0	568.765	27.342	1585.147	1.069%	77.355%
27.0	525.157	26.145	1611.292	1.022%	78.631%
28.0	481.873	24.808	1636.1	.970%	79.842%
29.0	445.570	23.689	1659.789	.926%	80.998%
30.0	412.636	22.625	1682.414	.885%	82.102%
31.0	380.173	21.472	1703.886	.840%	83.149%
32.0	350.234	20.353	1724.238	.796%	84.143%
33.0	326.159	19.480	1743.718	.762%	85.093%
34.0	303.279	18.598	1762.316	.727%	86.001%
35.0	280.547	17.646	1779.962	.690%	86.862%
36.0	262.568	16.924	1796.886	.662%	87.688%
37.0	248.133	16.376	1813.262	.640%	88.487%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	233.297	15.751	1829.013	.616%	89.256%
39.0	216.577	14.946	1843.959	.585%	89.985%
40.0	203.337	14.333	1858.292	.561%	90.685%
41.0	189.415	13.627	1871.919	.533%	91.350%
42.0	175.584	12.884	1884.803	.504%	91.978%
43.0	159.511	11.930	1896.733	.467%	92.560%
44.0	144.141	10.980	1907.713	.429%	93.096%
45.0	130.591	10.126	1917.839	.396%	93.590%
46.0	116.606	9.198	1927.038	.360%	94.039%
47.0	104.977	8.419	1935.457	.329%	94.450%
48.0	95.843	7.811	1943.267	.305%	94.831%
49.0	87.068	7.206	1950.473	.282%	95.183%
50.0	78.722	6.613	1957.086	.259%	95.506%
51.0	71.979	6.134	1963.221	.240%	95.805%
52.0	65.095	5.625	1968.846	.220%	96.080%
53.0	57.895	5.070	1973.916	.198%	96.327%
54.0	52.080	4.620	1978.537	.181%	96.552%
55.0	46.821	4.206	1982.742	.164%	96.758%
56.0	42.265	3.842	1986.585	.150%	96.945%
57.0	38.398	3.531	1990.116	.138%	97.118%
58.0	35.142	3.268	1993.384	.128%	97.277%
59.0	32.196	3.026	1996.411	.118%	97.425%
60.0	29.665	2.817	1999.228	.110%	97.562%
61.0	27.345	2.623	2001.851	.103%	97.690%
62.0	25.615	2.480	2004.331	.097%	97.811%
63.0	24.258	2.370	2006.701	.093%	97.927%
64.0	23.133	2.280	2008.981	.089%	98.038%
65.0	22.331	2.219	2011.2	.087%	98.146%
66.0	21.607	2.165	2013.365	.085%	98.252%
67.0	20.876	2.107	2015.472	.082%	98.355%
68.0	20.123	2.046	2017.518	.080%	98.455%
69.0	19.463	1.993	2019.511	.078%	98.552%
70.0	18.837	1.941	2021.452	.076%	98.647%
71.0	18.162	1.883	2023.335	.074%	98.739%
72.0	17.599	1.835	2025.171	.072%	98.828%
73.0	17.100	1.793	2026.964	.070%	98.916%
74.0	16.601	1.750	2028.714	.068%	99.001%
75.0	16.109	1.706	2030.42	.067%	99.084%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.652	1.665	2032.085	.065%	99.166%
77.0	15.195	1.624	2033.709	.063%	99.245%
78.0	14.681	1.575	2035.284	.062%	99.322%
79.0	14.077	1.515	2036.799	.059%	99.396%
80.0	13.486	1.456	2038.255	.057%	99.467%
81.0	12.916	1.399	2039.654	.055%	99.535%
82.0	12.326	1.339	2040.993	.052%	99.600%
83.0	11.679	1.271	2042.264	.050%	99.662%
84.0	11.116	1.212	2043.477	.047%	99.722%
85.0	10.526	1.150	2044.626	.045%	99.778%
86.0	9.984	1.092	2045.719	.043%	99.831%
87.0	9.450	1.035	2046.753	.040%	99.881%
88.0	9.049	0.992	2047.745	.039%	99.930%
89.0	8.796	0.964	2048.71	.038%	99.977%
90.0	8.641	0.474	2049.183	.019%	100.000%

Zonal flux distribution table

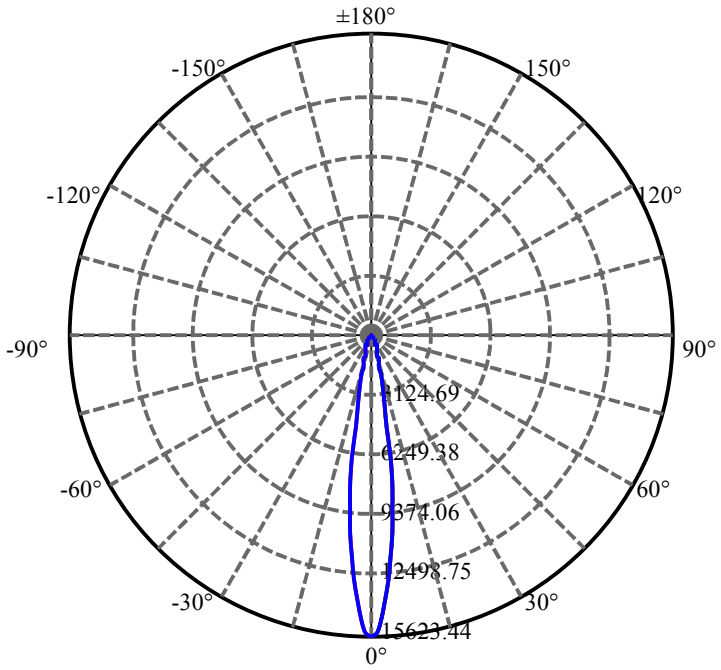
ZONAL LUMEN SUMMARY

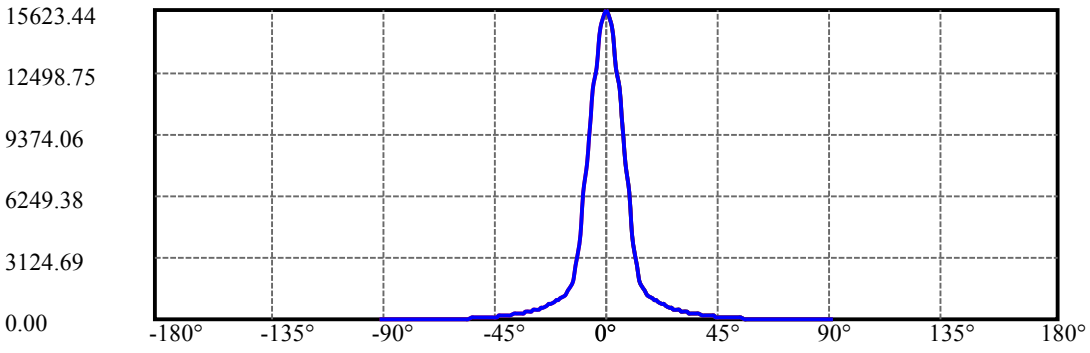
Zone	Lumens	%Lamp	%Fixt
0-30	1682.41	65.80%	82.10%
0-40	1858.29	72.67%	90.68%
0-60	1999.23	78.19%	97.56%
0-90	2048.71	80.12%	99.98%
0-120	2048.71	80.12%	99.98%
0-180	2049.18	80.14%	100.00%
60-90	52.30	2.05%	2.55%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.14	1639.35	64.11%	80.00%

ZONAL LUMEN SUMMARY

0-10	938.35
10-20	462.57
20-30	281.49
30-40	175.88
40-50	98.79
50-60	42.14
60-70	22.22
70-80	16.80
80-90	10.45
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):

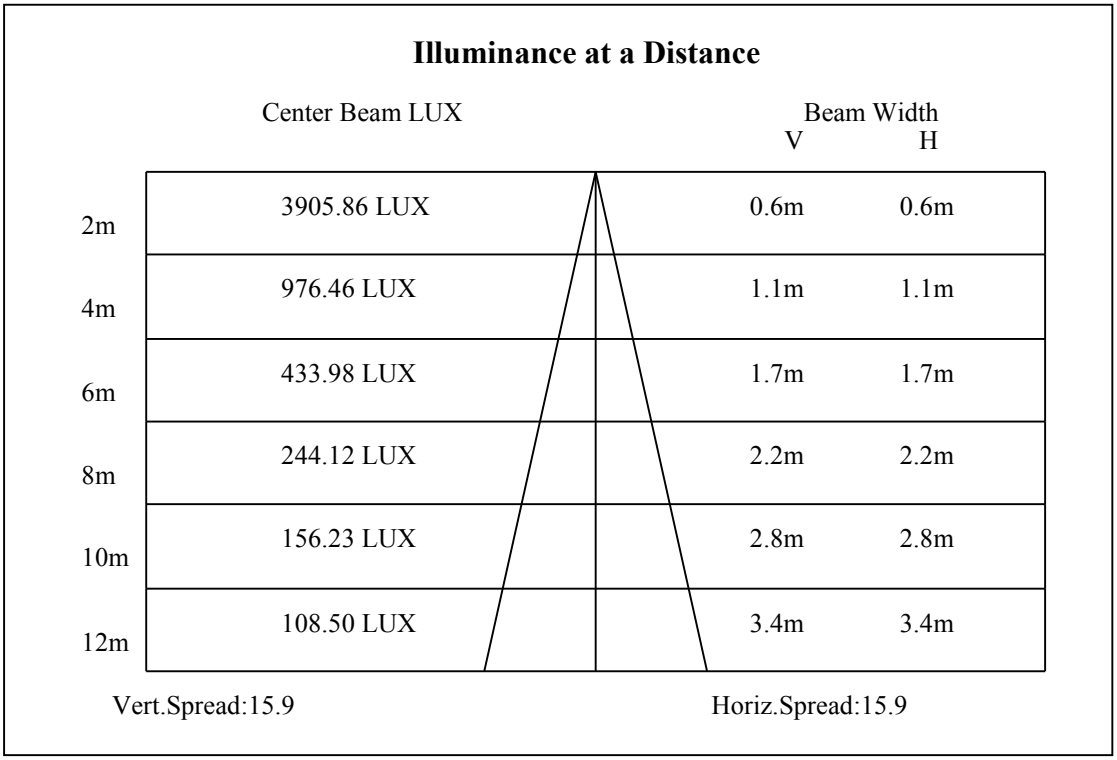
C0/C180:

C90/C270:

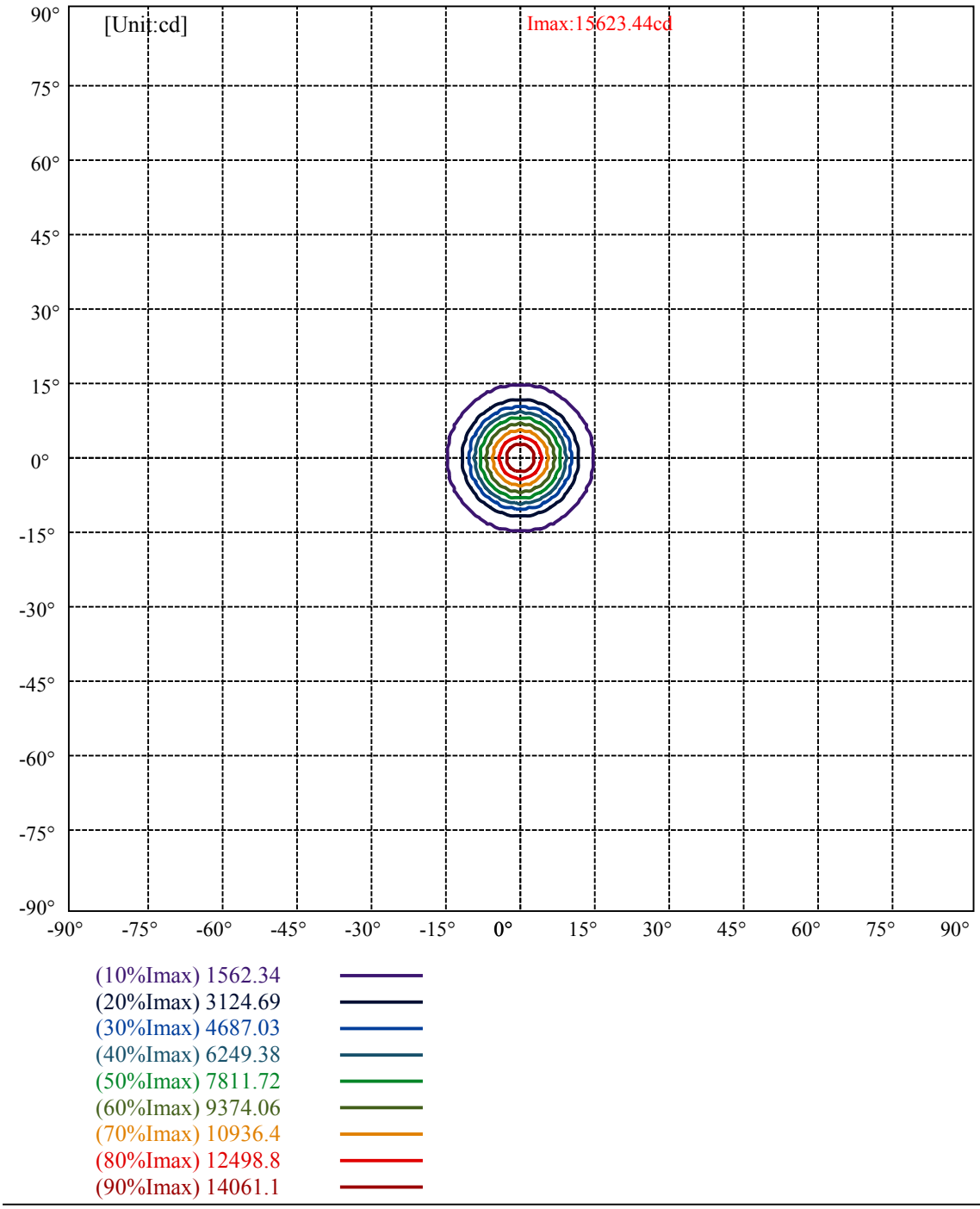
Field angle(10%Imax):C0/180Left:14.6 Right:14.6
:C90/270Left:14.6 Right:14.6

Beam Angle(50%Imax):C0/180Left:8.0 Right:8.0
:C90/270Left:8.0 Right:8.0

Lux distance Curve



ISO-Intensity(V-H)

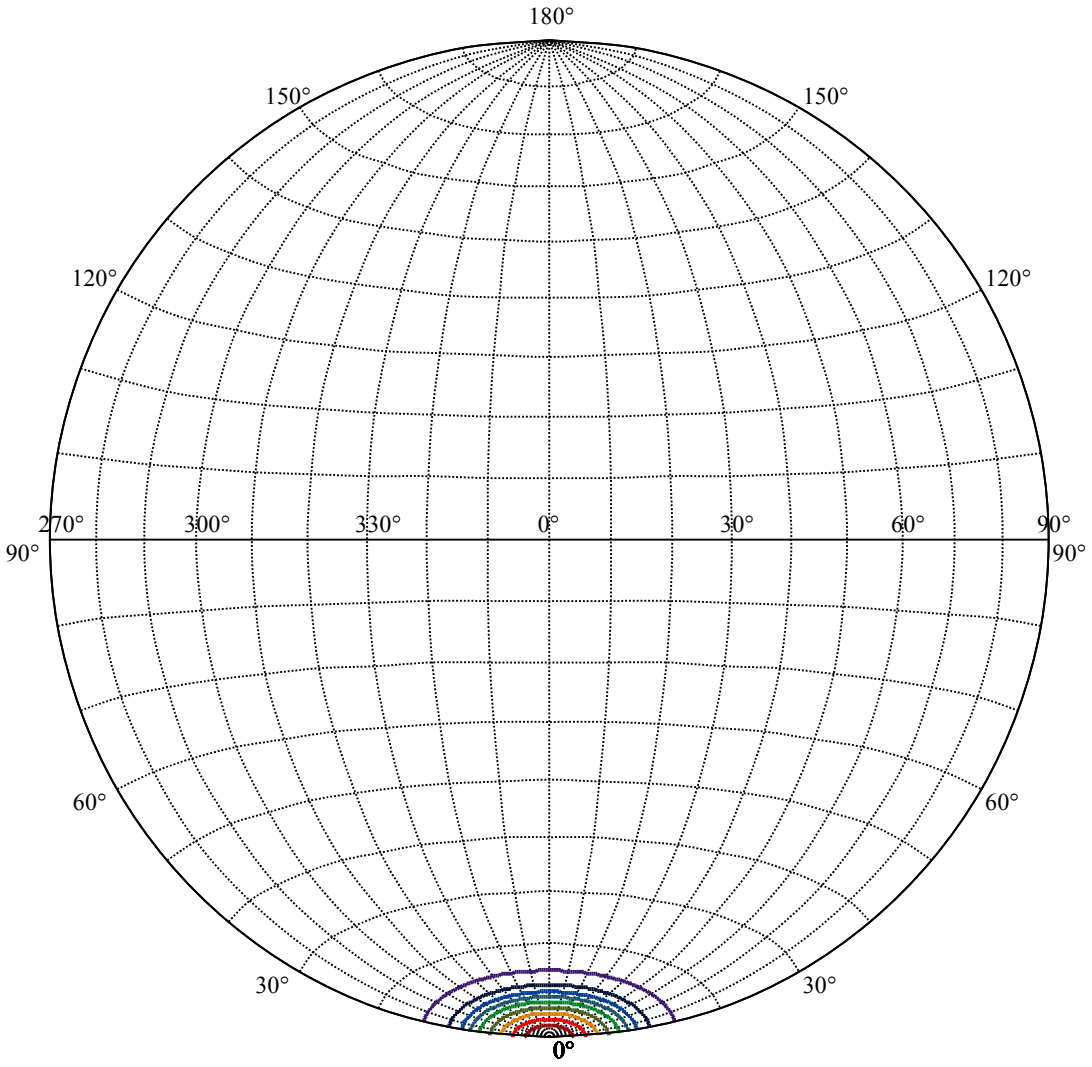


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:15623.44

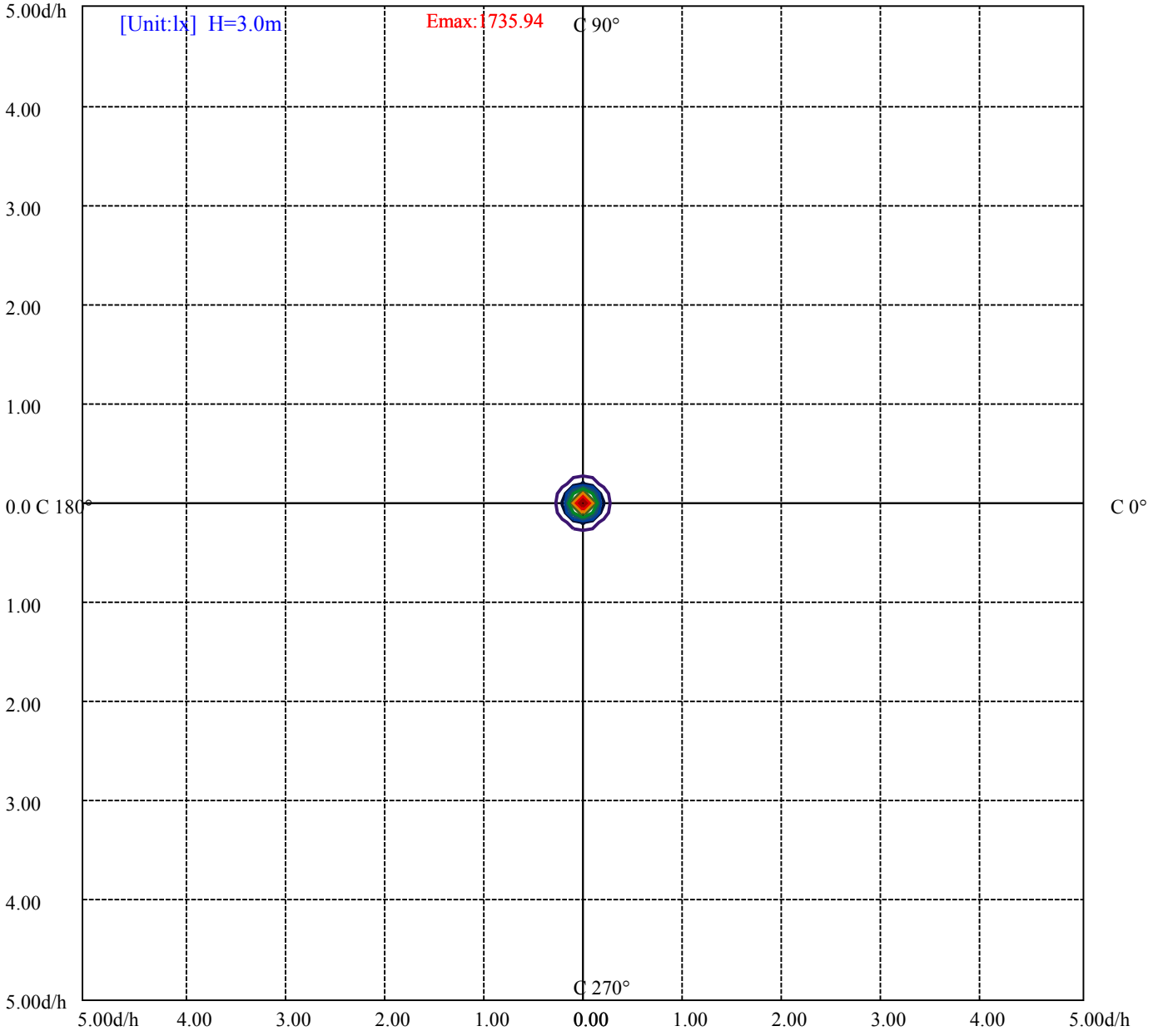
(10%Imax) 1562.34
(20%Imax) 3124.69
(30%Imax) 4687.03
(40%Imax) 6249.38
(50%Imax) 7811.72
(60%Imax) 9374.06
(70%Imax) 10936.4
(80%Imax) 12498.8
(90%Imax) 14061.1

Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.50

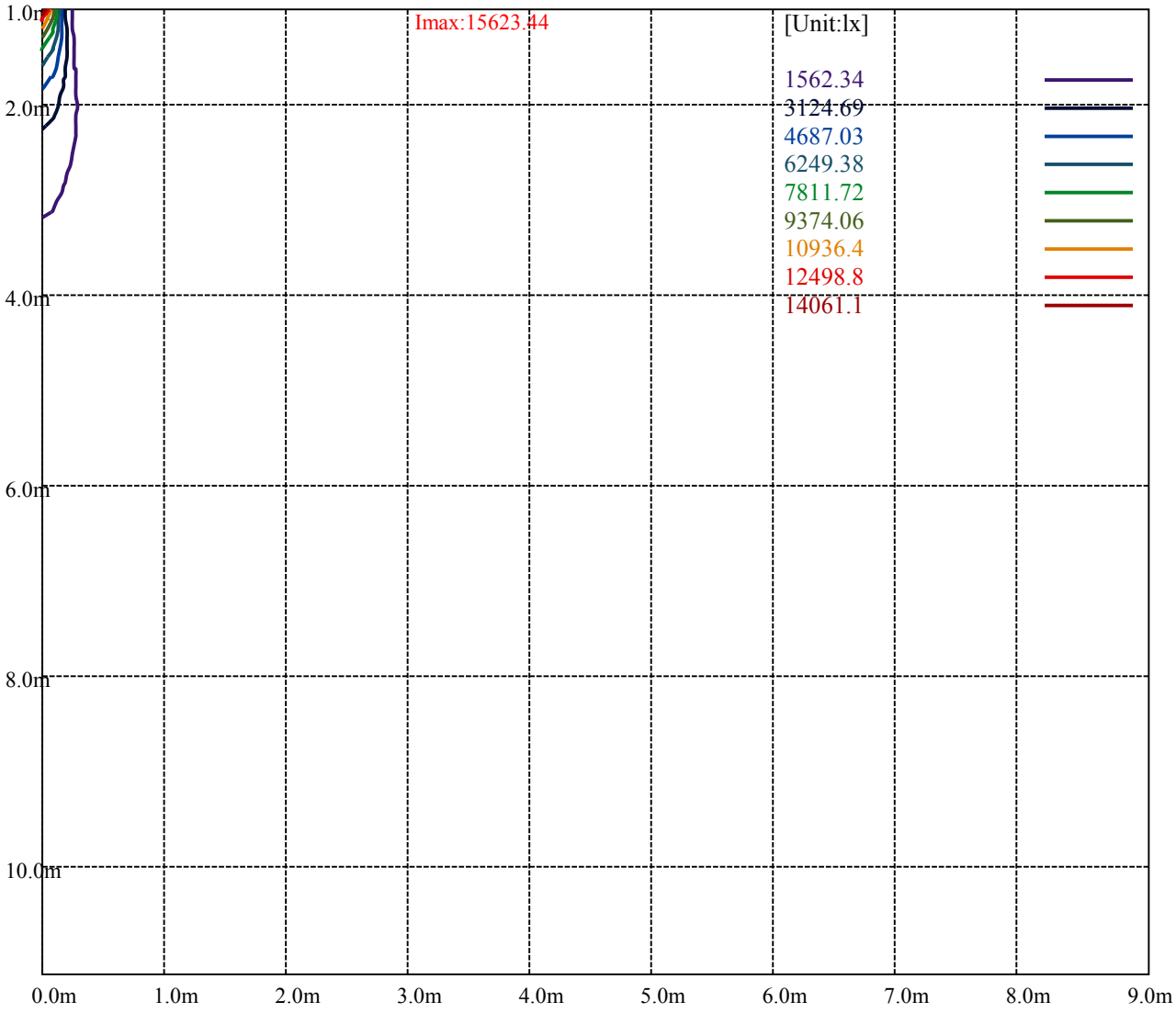
ISO illuminance diagram



(10%Emax) 173.5933
(20%Emax) 347.1866
(30%Emax) 520.78
(40%Emax) 694.3733
(50%Emax) 867.9667
(60%Emax) 1041.56
(70%Emax) 1215.156
(80%Emax) 1388.745
(90%Emax) 1562.344

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

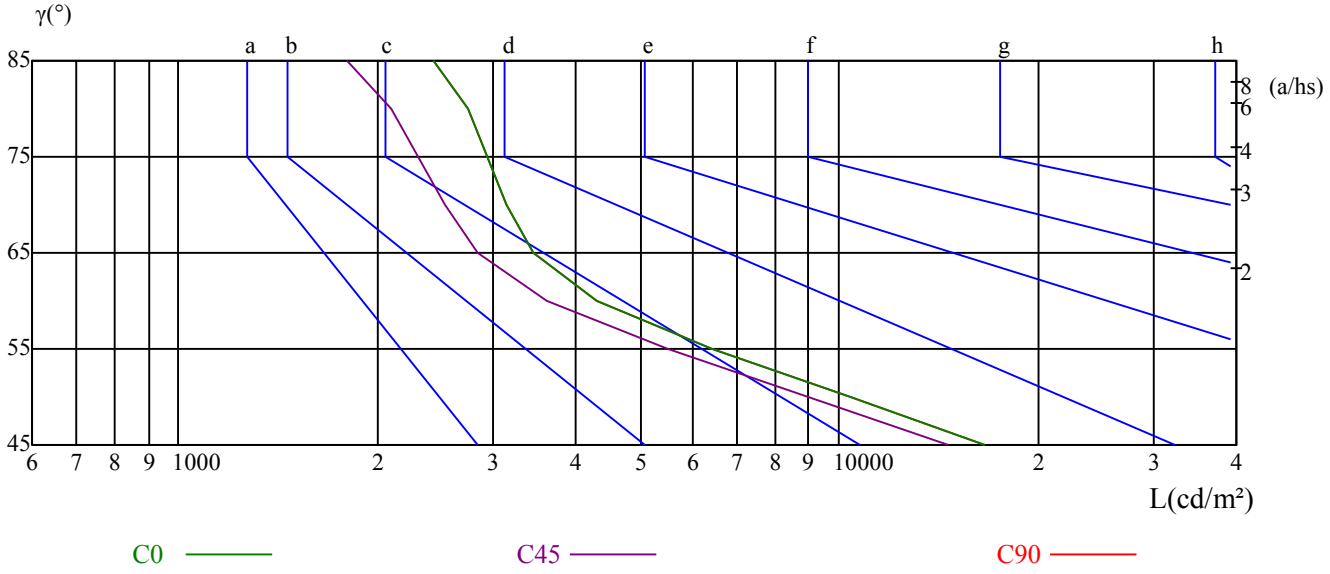
γ	45	50	55	60	65	70	75	80	85
C0	16647	10376	6439	4299	3448	3137	2936	2738	2432
C45	14628	8986	5491	3606	2839	2530	2313	2096	1798
C90	16647	10376	6439	4299	3448	3137	2936	2738	2432

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7144	7144	7144	8415	8415	8415	16329	16329	16329

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

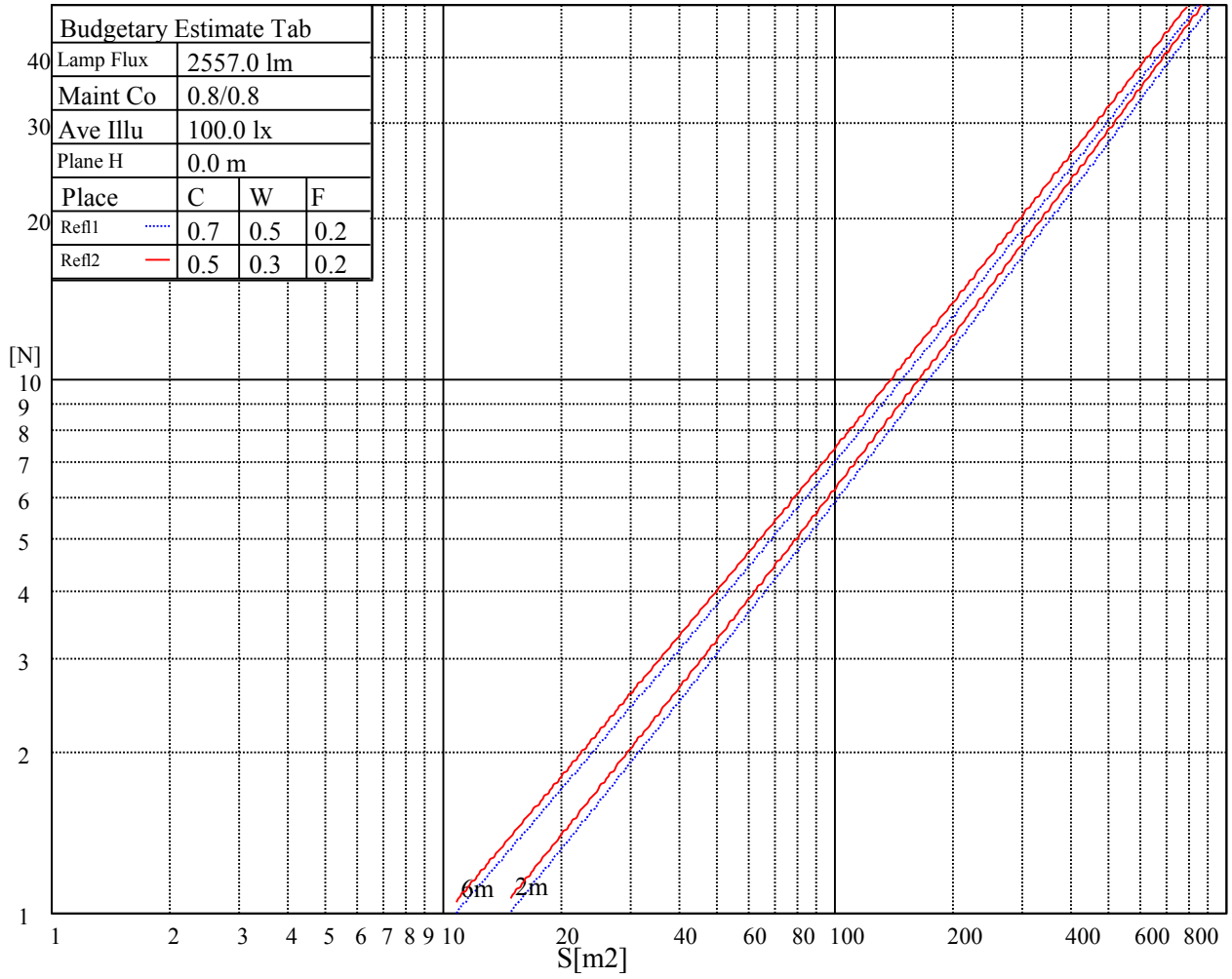
Luminance Limitting Curve



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	8.99	10.00	9.35	10.31	10.62	9.00	10.01	9.36	10.32	10.63
	3H	9.83	10.72	10.22	11.06	11.43	9.82	10.72	10.21	11.05	11.42
	4H	10.30	11.12	10.70	11.47	11.86	10.28	11.11	10.69	11.46	11.85
	6H	10.77	11.52	11.18	11.90	12.29	10.75	11.51	11.17	11.88	12.28
	8H	10.98	11.69	11.41	12.08	12.49	10.96	11.67	11.40	12.07	12.48
	12H	11.32	12.00	11.75	12.38	12.81	11.30	11.98	11.73	12.36	12.79
4H	2H	9.05	9.88	9.46	10.23	10.62	9.06	9.89	9.47	10.24	10.63
	3H	10.14	10.81	10.55	11.22	11.63	10.13	10.80	10.54	11.21	11.62
	4H	10.75	11.36	11.19	11.78	12.23	10.74	11.34	11.18	11.77	12.21
	6H	11.28	11.80	11.75	12.25	12.73	11.27	11.79	11.74	12.24	12.71
	8H	11.59	12.07	12.06	12.52	13.00	11.57	12.05	12.05	12.50	12.98
	12H	11.98	12.40	12.48	12.89	13.37	11.96	12.38	12.45	12.87	13.35
8H	4H	10.90	11.38	11.37	11.83	12.31	10.88	11.37	11.36	11.82	12.29
	6H	11.60	11.99	12.11	12.49	12.97	11.59	11.97	12.10	12.48	12.96
	8H	12.02	12.36	12.55	12.88	13.38	12.00	12.34	12.53	12.87	13.36
	12H	12.60	12.90	13.12	13.39	13.97	12.58	12.88	13.10	13.38	13.95
12H	4H	10.90	11.32	11.39	11.81	12.28	10.89	11.31	11.38	11.79	12.27
	6H	11.95	12.00	12.19	12.47	13.02	11.94	11.99	12.18	12.46	13.01
	8H	12.14	12.43	12.66	12.93	13.51	12.12	12.42	12.64	12.92	13.50

Variation with the observer position at spacings:		
S = 1.0H	1.6/-2.4	1.6/-2.4
S = 1.5H	3.0/-2.8	3.0/-2.8
S = 2.0H	4.7/-2.5	4.7/-2.5
Standard tables:	BK2	BK2
Uncorrected UGR	-2.1	-2.1

Budgetary Estimate Table

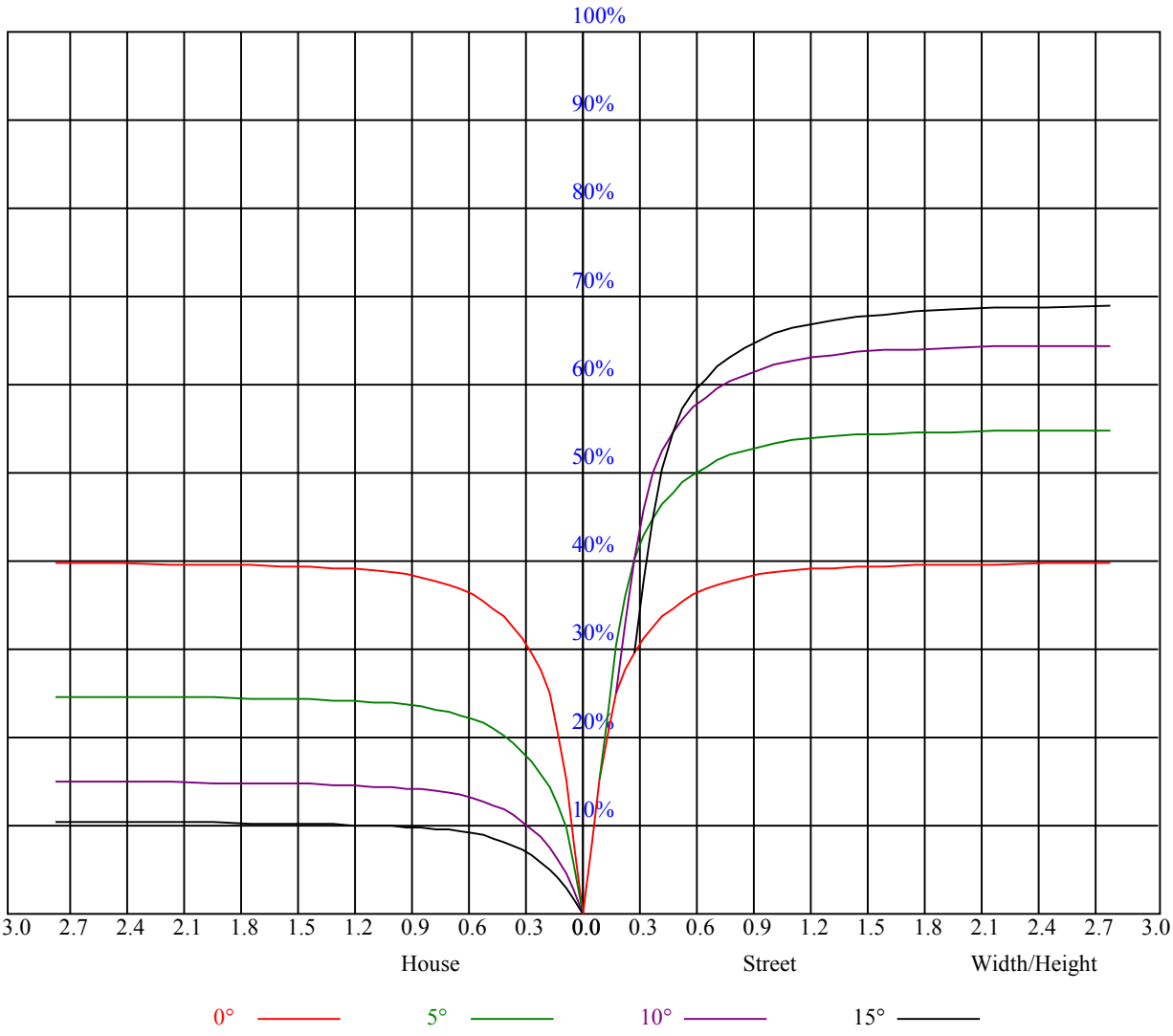


Equipment: GMS1980 Date: 2018/9/11 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.50

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	0.96	0.96	0.96	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.82	0.82	0.82	0.80
1	0.90	0.88	0.86	0.88	0.86	0.85	0.85	0.83	0.82	0.82	0.81	0.80	0.79	0.78	0.78	0.76
2	0.85	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.77	0.79	0.77	0.76	0.76	0.75	0.74	0.73
3	0.81	0.77	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.71	0.70
4	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.73	0.71	0.69	0.72	0.70	0.68	0.67
5	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.70	0.67	0.66	0.65
6	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.64	0.63
7	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.64	0.62	0.61
8	0.67	0.63	0.61	0.66	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.59
9	0.65	0.61	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.63	0.61	0.59	0.63	0.60	0.58	0.58
10	0.63	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.57	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	15676.88	15283.13	14405.63	13213.13	12088.13	10918.13	9450.00	8223.75	6862.50
45.0	15592.50	15727.50	15474.38	14754.38	13843.13	12830.63	11458.13	10305.00	9112.50
90.0	15688.13	15615.00	15226.88	14445.00	13455.00	12526.88	11145.38	10369.13	9225.56
135.0	15536.25	15716.25	15463.13	14833.13	14011.88	13173.75	12161.25	11272.50	10243.13
180.0	15676.88	15660.00	15300.00	14501.25	13455.00	12493.13	11214.56	10136.81	8949.94
225.0	15592.50	14996.25	14130.00	12892.50	11195.44	10218.38	8825.06	7530.75	6045.19
270.0	15688.13	15322.50	14518.13	13336.88	12071.25	10591.88	9095.63	7813.13	6468.75
315.0	15536.25	14895.00	13854.38	12802.50	11200.50	10258.31	8846.44	7126.31	5835.38
360.0	15676.88	15283.13	14405.63	13213.13	12088.13	10918.13	9450.00	8223.75	6862.50

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5304.38	3813.75	2863.13	2003.63	1527.75	1357.31	1247.06	1145.25	1053.56
45.0	7503.75	6159.38	4792.50	3420.00	2919.38	1878.75	1577.25	1416.94	1292.63
90.0	7890.75	6100.88	4703.63	3508.88	2619.56	1959.75	1685.81	1510.31	1361.81
135.0	8735.63	7306.88	5805.00	4230.00	2992.50	2880.00	1824.75	1590.75	1418.06
180.0	7584.19	5781.38	4399.31	3251.25	2234.25	1793.81	1562.63	1388.81	1253.81
225.0	4722.19	3382.88	2356.31	1797.19	1495.13	1350.00	1247.06	1116.23	1059.53
270.0	4815.00	3594.38	2947.50	1855.69	1488.94	1333.69	1218.38	1121.06	1041.75
315.0	4415.06	2799.00	2082.94	1611.56	1328.06	1235.81	1118.76	1058.46	970.59
360.0	5304.38	3813.75	2863.13	2003.63	1527.75	1357.31	1247.06	1145.25	1053.56

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	983.81	913.50	846.56	787.50	721.69	666.00	606.94	557.44	515.81
45.0	1187.44	1104.19	1023.19	942.75	874.13	804.94	726.19	668.25	616.50
90.0	1244.25	1114.59	1066.78	987.19	920.19	845.89	782.94	714.88	655.14
135.0	1279.13	1178.44	1090.69	1013.63	947.81	882.00	803.81	741.38	687.38
180.0	1113.41	1065.99	997.48	925.26	854.61	791.38	724.89	660.71	612.06
225.0	991.86	922.33	848.31	772.82	710.78	644.29	586.13	542.36	497.03
270.0	965.25	901.69	833.63	765.00	705.94	647.44	581.63	537.19	496.13
315.0	909.23	850.44	788.01	724.22	665.78	606.21	552.09	511.65	470.08
360.0	983.81	913.50	846.56	787.50	721.69	666.00	606.94	557.44	515.81

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	483.19	437.63	408.38	383.63	346.50	321.75	303.75	284.06	261.51
45.0	567.56	520.88	483.19	446.06	411.19	383.06	354.94	331.88	309.94
90.0	606.77	561.21	511.37	474.24	440.21	401.40	373.22	347.57	321.58
135.0	630.56	579.38	538.31	493.88	453.94	420.75	384.19	356.63	330.75
180.0	566.83	516.15	478.97	445.44	410.40	376.82	349.20	325.74	299.48
225.0	461.14	423.62	390.66	363.49	338.23	306.79	289.35	270.84	247.50
270.0	450.00	416.25	387.00	355.50	327.94	304.31	285.19	257.06	239.46
315.0	435.21	399.88	366.69	338.85	312.98	286.99	269.44	252.45	234.17
360.0	483.19	437.63	408.38	383.63	346.50	321.75	303.75	284.06	261.51

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	247.39	232.65	220.67	207.79	195.81	182.64	166.44	150.41	135.90
45.0	289.69	284.63	253.69	236.48	224.04	211.84	196.43	181.74	165.60
90.0	296.94	277.99	258.98	242.38	228.49	212.96	200.03	182.76	165.77
135.0	306.00	288.00	285.75	250.93	232.48	218.59	206.04	188.10	171.34
180.0	280.46	261.79	246.09	230.46	214.76	201.77	188.89	171.39	154.29
225.0	234.51	221.57	207.79	194.01	182.25	166.67	152.38	136.80	122.12
270.0	224.61	209.48	196.43	185.51	173.70	160.99	146.87	132.30	119.87
315.0	220.95	208.97	196.99	185.06	175.16	159.86	147.60	132.58	118.24
360.0	247.39	232.65	220.67	207.79	195.81	182.64	166.44	150.41	135.90

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	122.91	108.56	98.61	90.45	82.24	74.36	67.22	59.91	53.10
45.0	149.34	133.76	120.21	108.17	98.89	89.72	81.28	73.97	65.87
90.0	150.13	135.62	119.36	108.17	98.66	88.54	81.28	74.14	65.36
135.0	157.89	139.56	125.94	114.75	103.05	92.87	85.28	77.51	69.81
180.0	139.84	124.82	112.28	102.15	92.48	84.26	77.29	70.48	63.00
225.0	110.59	98.89	89.49	82.52	75.99	68.12	62.16	56.42	50.12
270.0	107.10	96.02	87.53	81.23	72.51	66.60	61.71	54.68	48.60
315.0	106.93	95.63	86.40	79.31	72.73	65.31	59.63	53.66	47.31
360.0	122.91	108.56	98.61	90.45	82.24	74.36	67.22	59.91	53.10

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	47.87	43.03	39.32	35.78	32.68	30.21	27.73	25.65	24.30
45.0	58.50	52.43	47.31	42.08	38.76	35.44	32.18	29.93	27.73
90.0	58.89	53.10	46.86	43.14	39.04	35.49	32.68	29.87	27.45
135.0	63.28	55.74	50.34	45.06	40.89	37.18	33.75	30.77	28.46
180.0	56.25	50.57	45.23	40.78	37.41	34.03	31.33	28.63	26.33
225.0	45.00	41.18	37.46	34.20	31.67	29.03	27.06	25.09	23.91
270.0	44.49	39.77	36.28	33.86	30.88	28.69	26.89	24.86	23.68
315.0	42.36	38.76	35.33	32.29	29.81	27.51	25.71	23.96	23.06
360.0	47.87	43.03	39.32	35.78	32.68	30.21	27.73	25.65	24.30

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	23.46	22.50	21.77	21.04	20.36	19.58	18.96	18.28	17.66
45.0	25.65	24.36	23.51	22.73	21.83	21.04	20.31	19.58	18.90
90.0	25.59	24.36	23.34	22.56	21.83	20.93	20.25	19.58	18.79
135.0	26.33	24.30	23.46	22.73	21.88	21.09	20.42	19.69	18.90
180.0	24.64	23.51	22.61	21.88	21.21	20.42	19.74	19.18	18.45
225.0	23.12	22.33	21.60	20.98	20.31	19.63	18.96	18.39	17.78
270.0	22.95	22.11	21.49	20.76	20.03	19.46	18.84	18.28	17.66
315.0	22.33	21.60	20.87	20.19	19.58	18.84	18.23	17.72	17.16
360.0	23.46	22.50	21.77	21.04	20.36	19.58	18.96	18.28	17.66

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	17.16	16.71	16.26	15.81	15.36	14.91	14.40	13.67	13.16
45.0	18.28	17.78	17.27	16.71	16.26	15.81	15.30	14.68	14.12
90.0	18.23	17.66	17.04	16.59	16.09	15.53	15.08	14.57	13.84
135.0	18.28	17.66	17.16	16.65	16.09	15.69	15.24	14.63	14.12
180.0	17.89	17.38	16.82	16.31	15.86	15.41	14.91	14.40	13.73
225.0	17.16	16.71	16.26	15.69	15.30	14.85	14.23	13.61	13.05
270.0	17.16	16.65	16.20	15.75	15.30	14.85	14.34	13.73	13.16
315.0	16.65	16.26	15.81	15.36	14.96	14.51	13.95	13.33	12.71
360.0	17.16	16.71	16.26	15.81	15.36	14.91	14.40	13.67	13.16

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.60	11.93	11.31	10.80	10.07	9.56	9.06	8.78	8.55
45.0	13.50	12.94	12.26	11.64	11.08	10.46	9.96	9.39	9.00
90.0	13.33	12.77	12.09	11.53	10.97	10.41	9.84	9.34	9.00
135.0	13.50	12.94	12.32	11.76	11.14	10.63	10.01	9.56	9.06
180.0	13.22	12.66	11.98	11.42	10.80	10.29	9.68	9.17	8.83
225.0	12.49	11.93	11.25	10.69	10.13	9.62	9.11	8.78	8.66
270.0	12.54	11.87	11.31	10.69	10.13	9.56	9.06	8.78	8.66
315.0	12.15	11.59	10.91	10.41	9.90	9.34	8.89	8.61	8.61
360.0	12.60	11.93	11.31	10.80	10.07	9.56	9.06	8.78	8.55

Intensity data(cd)

C/γ(°)	90.0
0.0	8.55
45.0	8.72
90.0	8.66
135.0	8.72
180.0	8.55
225.0	8.66
270.0	8.66
315.0	8.61
360.0	8.55