NATA LIGHTING CO.,LTD.
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NATA

LumCAT: 2-1794-N
Luminaire: 92.70.131.00

Report No: NATA0100	Voltage(V): 35.2000
Test No: GC2019011715	Current(A): 0.7000
LampCAT: LUMINUS CLM-14-AC30	Power (W): 24.6400
Lamp flux(lm): 3658.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 69	Width(mm): 69
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3027.43
Efficiency(%): 82.76%
Lumens(lm)/Power(W): 122.96
Central intensity(cd): 9856.125
Maximum intensity(cd): 9856.125
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=27.6
[C90/270]Total=27.6
Field angle(10%Imax): [C0/180]Total=58.2
[C90/270]Total=58.2
Maximum s/h(1/2): C0_180=0.46 C90_270=0.46
Maximum s/h(1/4): C0_180=0.48 C90_270=0.48
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.82%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.902%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9856.125	2.358	2.358	.064%	.078%
1.0	9815.836	18.786	21.144	.514%	.698%
2.0	9681.891	37.054	58.198	1.013%	1.922%
3.0	9490.570	54.468	112.666	1.489%	3.722%
4.0	9257.906	70.819	183.485	1.936%	6.061%
5.0	8945.859	85.501	268.986	2.337%	8.885%
6.0	8612.297	98.720	367.706	2.699%	12.146%
7.0	8250.539	110.263	477.968	3.014%	15.788%
8.0	7834.781	119.573	597.542	3.269%	19.738%
9.0	7354.969	126.173	723.714	3.449%	23.905%
10.0	6866.227	130.750	854.464	3.574%	28.224%
11.0	6350.906	132.888	987.352	3.633%	32.613%
12.0	5842.617	133.210	1120.562	3.642%	37.014%
13.0	5323.289	131.317	1251.879	3.590%	41.351%
14.0	4819.852	127.868	1379.746	3.496%	45.575%
15.0	4366.195	123.923	1503.669	3.388%	49.668%
16.0	3954.023	119.517	1623.186	3.267%	53.616%
17.0	3519.914	112.855	1736.041	3.085%	57.344%
18.0	3150.703	106.768	1842.809	2.919%	60.870%
19.0	2836.758	101.278	1944.087	2.769%	64.216%
20.0	2521.477	94.571	2038.658	2.585%	67.339%
21.0	2238.820	87.983	2126.641	2.405%	70.246%
22.0	2016.211	82.825	2209.467	2.264%	72.981%
23.0	1824.469	78.175	2287.641	2.137%	75.564%
24.0	1654.734	73.806	2361.448	2.018%	78.002%
25.0	1532.813	71.038	2432.485	1.942%	80.348%
26.0	1421.930	68.355	2500.84	1.869%	82.606%
27.0	1265.920	63.024	2563.864	1.723%	84.688%
28.0	1136.630	58.517	2622.381	1.600%	86.621%
29.0	998.557	53.088	2675.469	1.451%	88.374%
30.0	848.201	46.507	2721.976	1.271%	89.910%
31.0	700.791	39.580	2761.557	1.082%	91.218%
32.0	557.810	32.415	2793.972	.886%	92.288%
33.0	429.237	25.636	2819.608	.701%	93.135%
34.0	317.644	19.478	2839.087	.532%	93.779%
35.0	218.517	13.744	2852.831	.376%	94.233%
36.0	141.982	9.152	2861.983	.250%	94.535%
37.0	114.799	7.576	2869.559	.207%	94.785%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	101.405	6.846	2876.405	.187%	95.011%
39.0	90.373	6.237	2882.642	.170%	95.217%
40.0	83.264	5.869	2888.511	.160%	95.411%
41.0	77.070	5.545	2894.056	.152%	95.594%
42.0	71.592	5.253	2899.309	.144%	95.768%
43.0	66.846	4.999	2904.308	.137%	95.933%
44.0	62.367	4.751	2909.059	.130%	96.090%
45.0	58.655	4.548	2913.608	.124%	96.240%
46.0	55.188	4.353	2917.961	.119%	96.384%
47.0	51.954	4.167	2922.128	.114%	96.522%
48.0	49.331	4.020	2926.148	.110%	96.654%
49.0	46.948	3.885	2930.033	.106%	96.783%
50.0	44.409	3.731	2933.764	.102%	96.906%
51.0	42.504	3.622	2937.386	.099%	97.026%
52.0	40.781	3.524	2940.91	.096%	97.142%
53.0	39.206	3.434	2944.344	.094%	97.255%
54.0	37.673	3.342	2947.686	.091%	97.366%
55.0	36.450	3.274	2950.961	.090%	97.474%
56.0	35.135	3.194	2954.155	.087%	97.579%
57.0	33.757	3.105	2957.259	.085%	97.682%
58.0	32.625	3.034	2960.294	.083%	97.782%
59.0	31.359	2.948	2963.241	.081%	97.880%
60.0	30.255	2.873	2966.115	.079%	97.975%
61.0	29.145	2.795	2968.91	.076%	98.067%
62.0	28.111	2.722	2971.632	.074%	98.157%
63.0	27.197	2.657	2974.289	.073%	98.245%
64.0	26.283	2.591	2976.88	.071%	98.330%
65.0	25.481	2.532	2979.412	.069%	98.414%
66.0	24.757	2.480	2981.892	.068%	98.496%
67.0	24.075	2.430	2984.322	.066%	98.576%
68.0	23.414	2.381	2986.703	.065%	98.655%
69.0	22.838	2.338	2989.041	.064%	98.732%
70.0	22.268	2.295	2991.336	.063%	98.808%
71.0	21.713	2.251	2993.587	.062%	98.882%
72.0	21.129	2.204	2995.791	.060%	98.955%
73.0	20.609	2.161	2997.952	.059%	99.026%
74.0	20.123	2.121	3000.073	.058%	99.096%
75.0	19.554	2.071	3002.144	.057%	99.165%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	19.055	2.027	3004.172	.055%	99.232%
77.0	18.619	1.989	3006.161	.054%	99.297%
78.0	18.134	1.945	3008.106	.053%	99.362%
79.0	17.634	1.898	3010.005	.052%	99.424%
80.0	17.184	1.856	3011.86	.051%	99.486%
81.0	16.784	1.818	3013.678	.050%	99.546%
82.0	16.369	1.778	3015.456	.049%	99.604%
83.0	15.926	1.733	3017.189	.047%	99.662%
84.0	15.546	1.695	3018.885	.046%	99.718%
85.0	15.103	1.650	3020.535	.045%	99.772%
86.0	14.667	1.604	3022.139	.044%	99.825%
87.0	14.238	1.559	3023.698	.043%	99.877%
88.0	13.873	1.520	3025.219	.042%	99.927%
89.0	13.542	1.485	3026.704	.041%	99.976%
90.0	13.331	0.731	3027.435	.020%	100.000%

Zonal flux distribution table

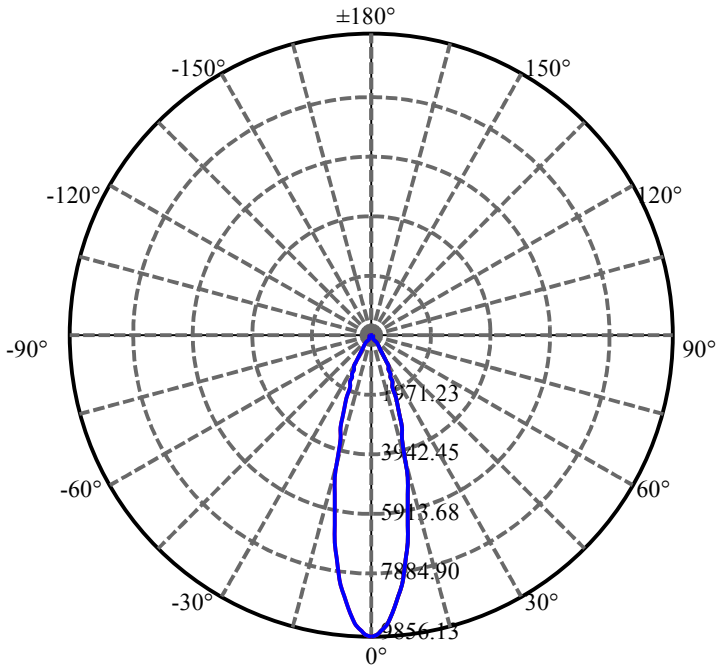
ZONAL LUMEN SUMMARY

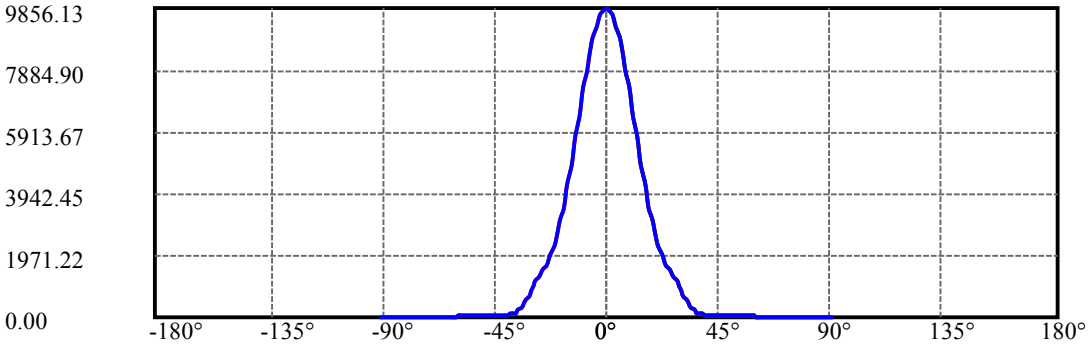
Zone	Lumens	%Lamp	%Fixt
0-30	2721.98	74.41%	89.91%
0-40	2888.51	78.96%	95.41%
0-60	2966.11	81.09%	97.97%
0-90	3026.70	82.74%	99.98%
0-120	3026.70	82.74%	99.98%
0-180	3027.43	82.76%	100.00%
60-90	63.46	1.73%	2.10%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.85	2421.95	66.21%	80.00%

ZONAL LUMEN SUMMARY

0-10	854.46
10-20	1184.19
20-30	683.32
30-40	166.53
40-50	45.25
50-60	32.35
60-70	25.22
70-80	20.52
80-90	14.84
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):

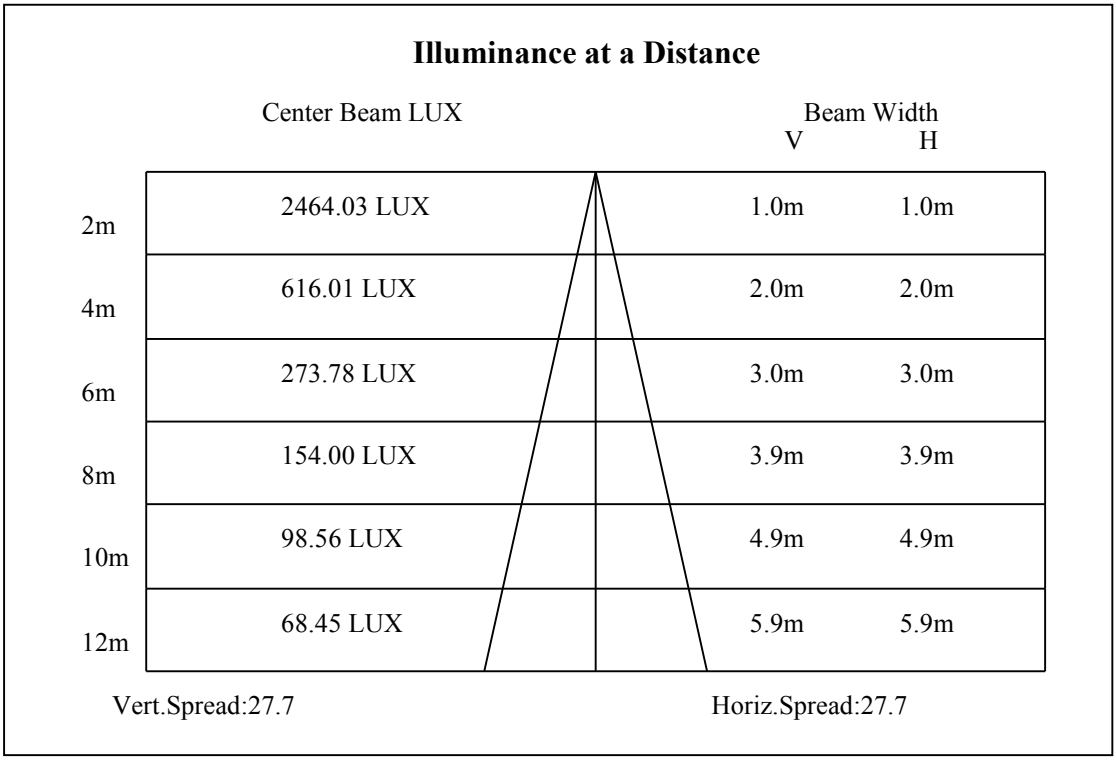
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:29.1 Right:29.1
:C90/270Left:29.1 Right:29.1

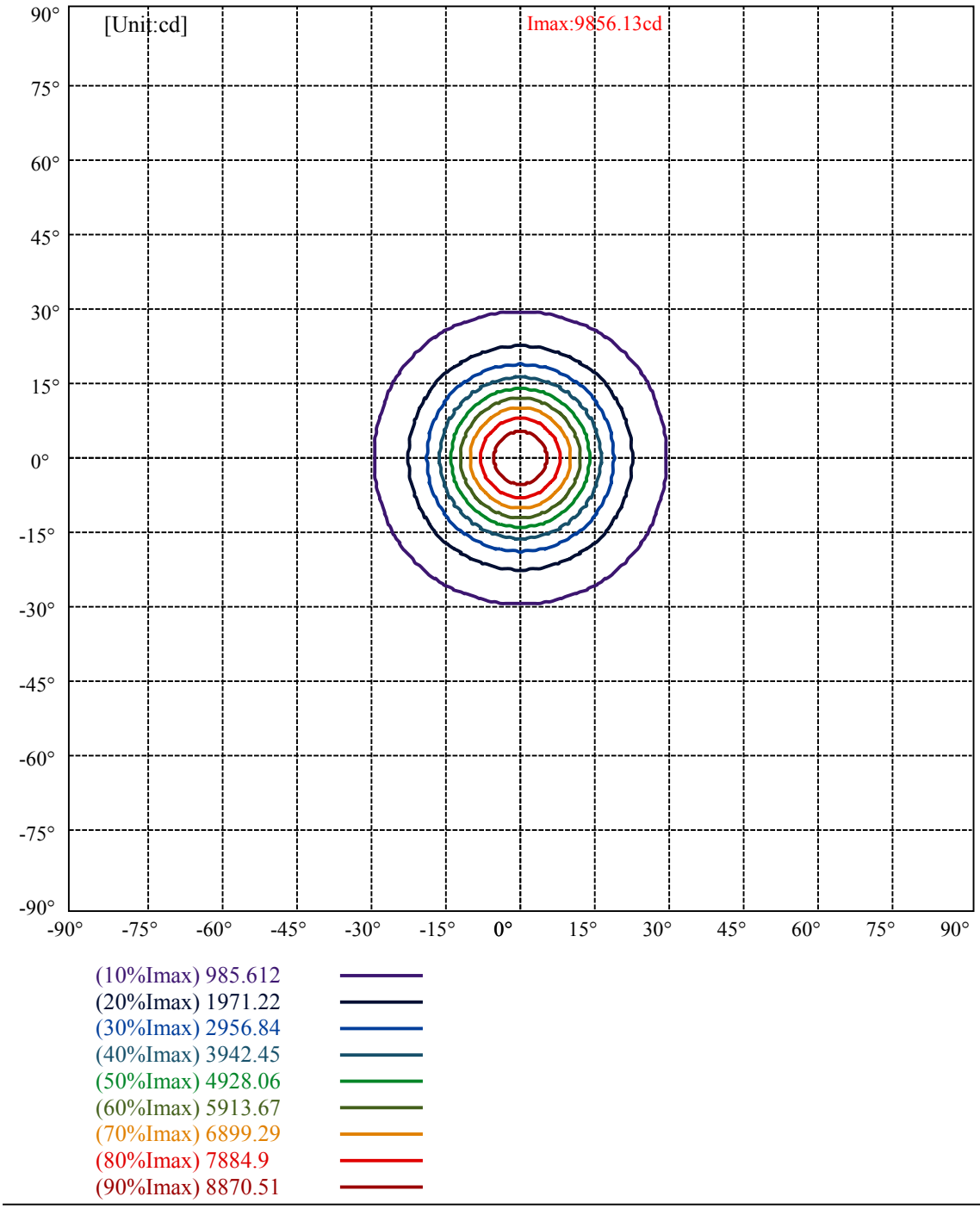
Beam Angle(50%Imax):C0/180Left:13.8 Right:13.8
:C90/270Left:13.8 Right:13.8

Lux distance Curve



Equipment: GMS1980 Date: 2019/1/17 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)



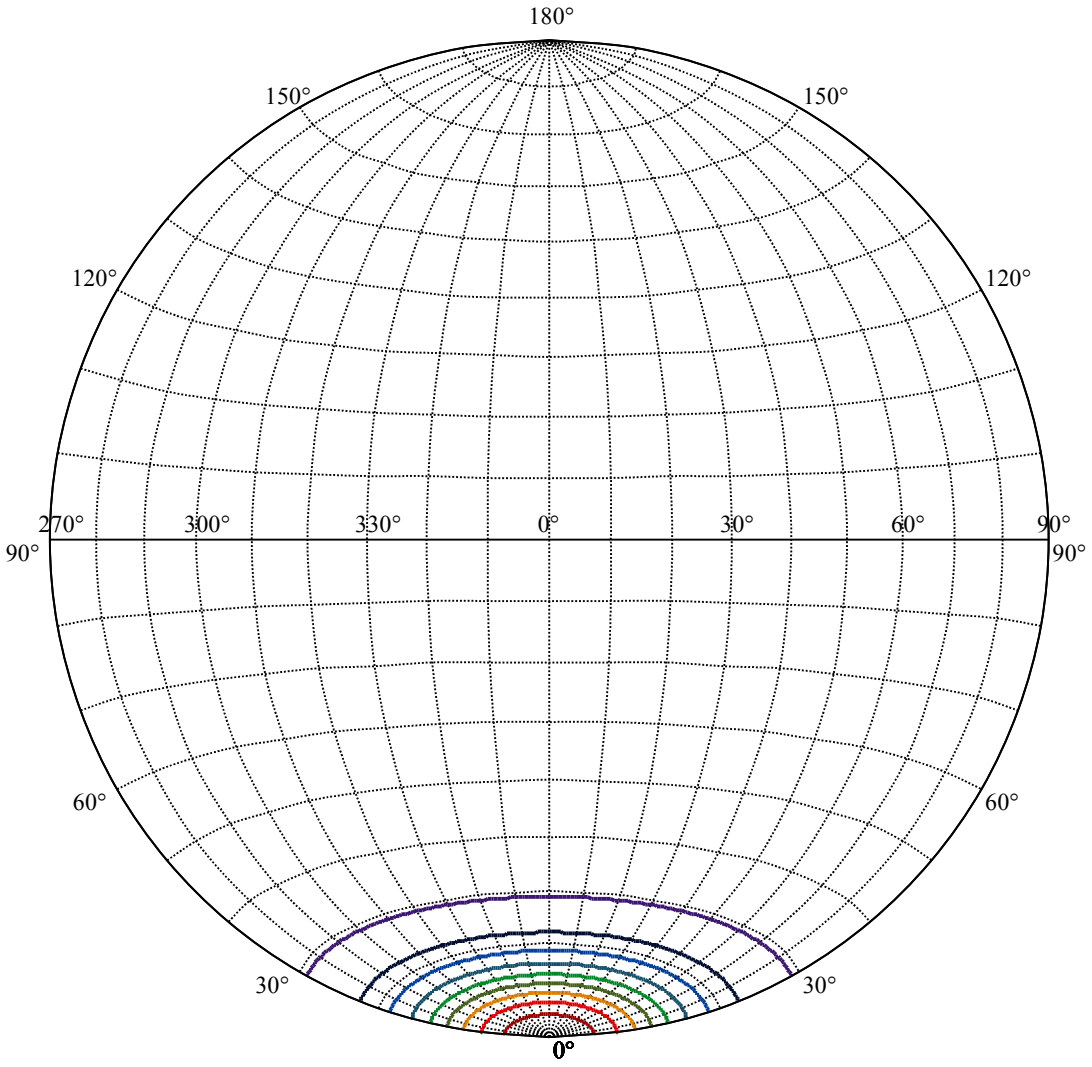
(10%Imax) 985.612
(20%Imax) 1971.22
(30%Imax) 2956.84
(40%Imax) 3942.45
(50%Imax) 4928.06
(60%Imax) 5913.67
(70%Imax) 6899.29
(80%Imax) 7884.9
(90%Imax) 8870.51

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/17
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:9856.13

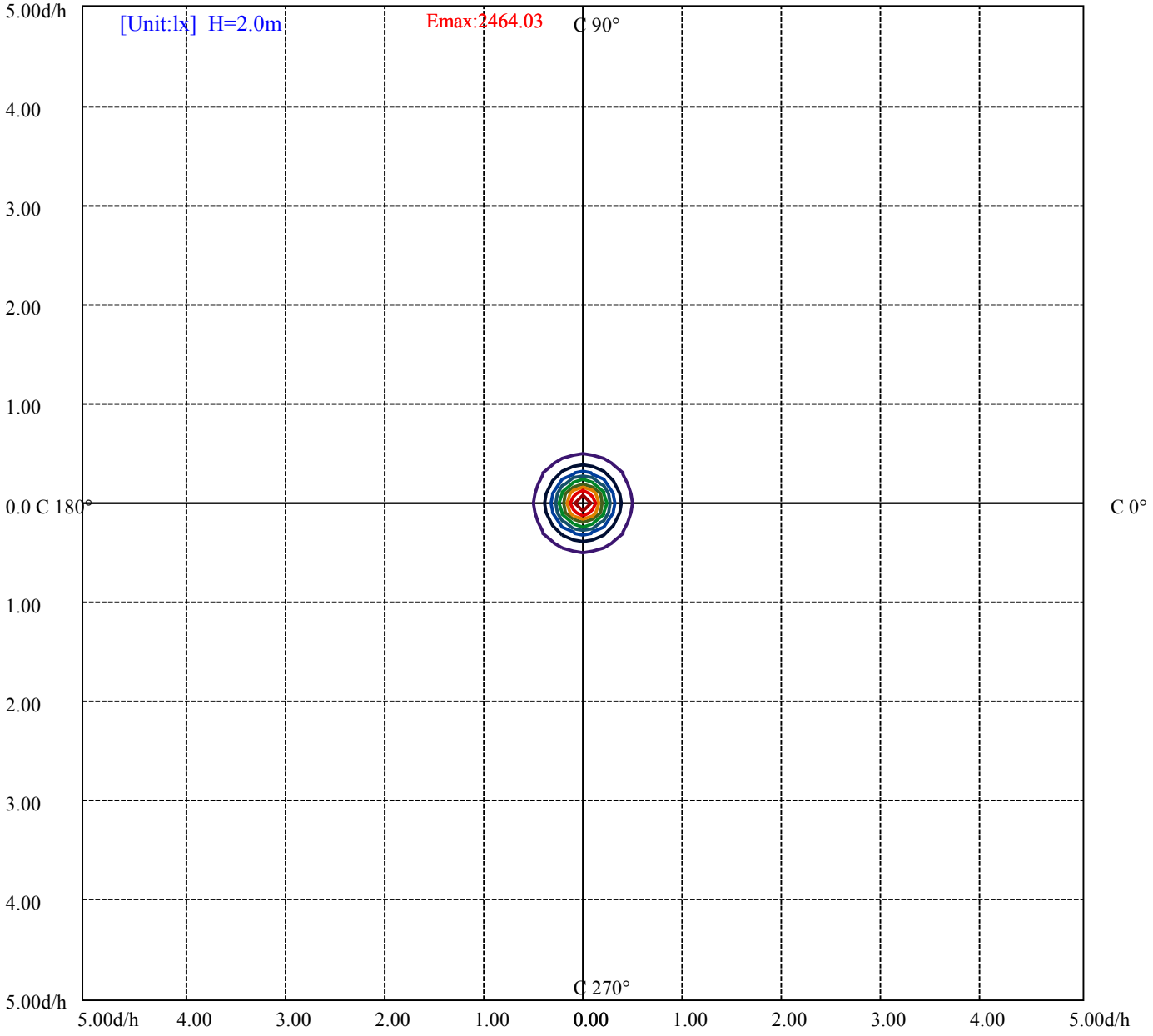
(10%Imax) 985.612
(20%Imax) 1971.22
(30%Imax) 2956.84
(40%Imax) 3942.45
(50%Imax) 4928.06
(60%Imax) 5913.67
(70%Imax) 6899.29
(80%Imax) 7884.9
(90%Imax) 8870.51

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/17
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO illuminance diagram

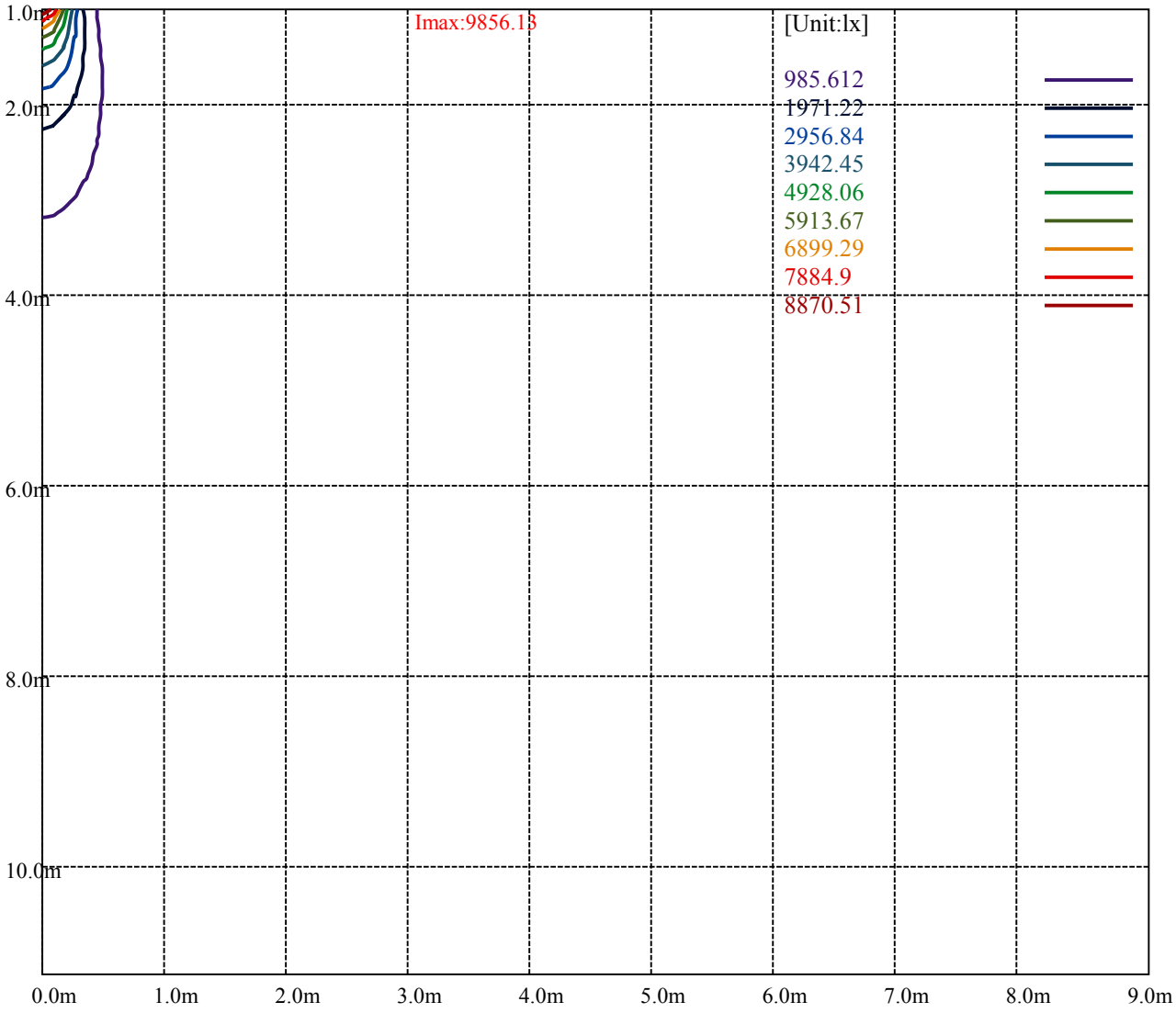


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/17
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/17
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

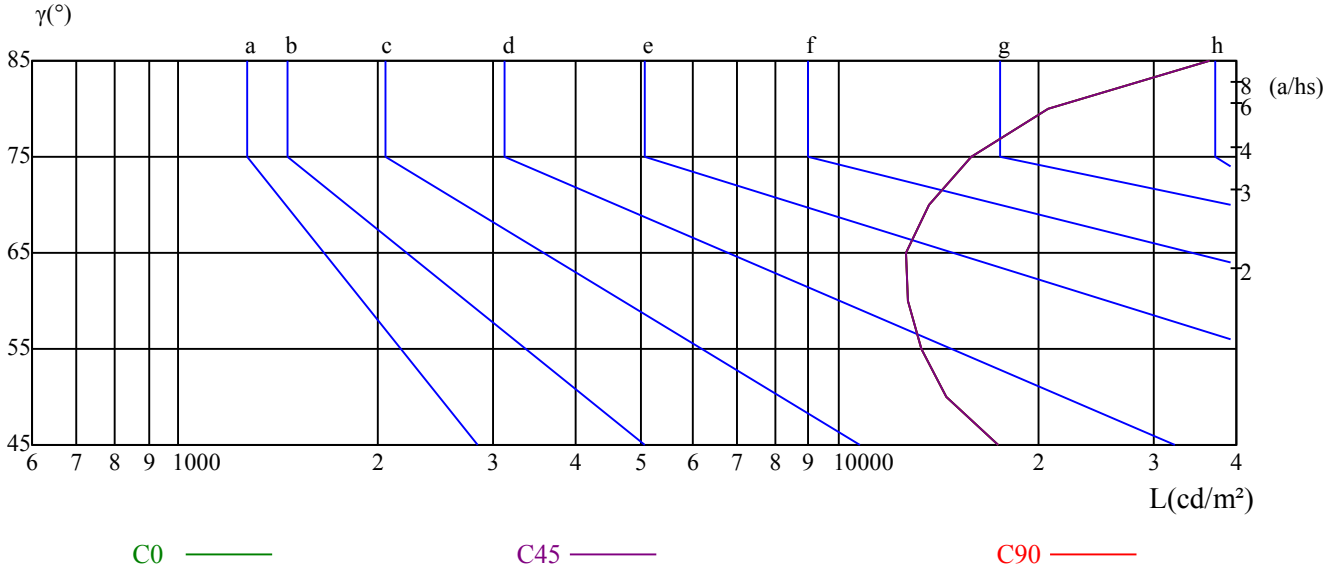
γ	45	50	55	60	65	70	75	80	85
C0	17423	14511	13348	12710	12664	13675	15869	20786	36398
C45	17423	14511	13348	12710	12664	13675	15869	20786	36398
C90	17423	14511	13348	12710	12664	13675	15869	20786	36398

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
12664	12664	12664	15869	15869	15869	36398	36398	36398

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

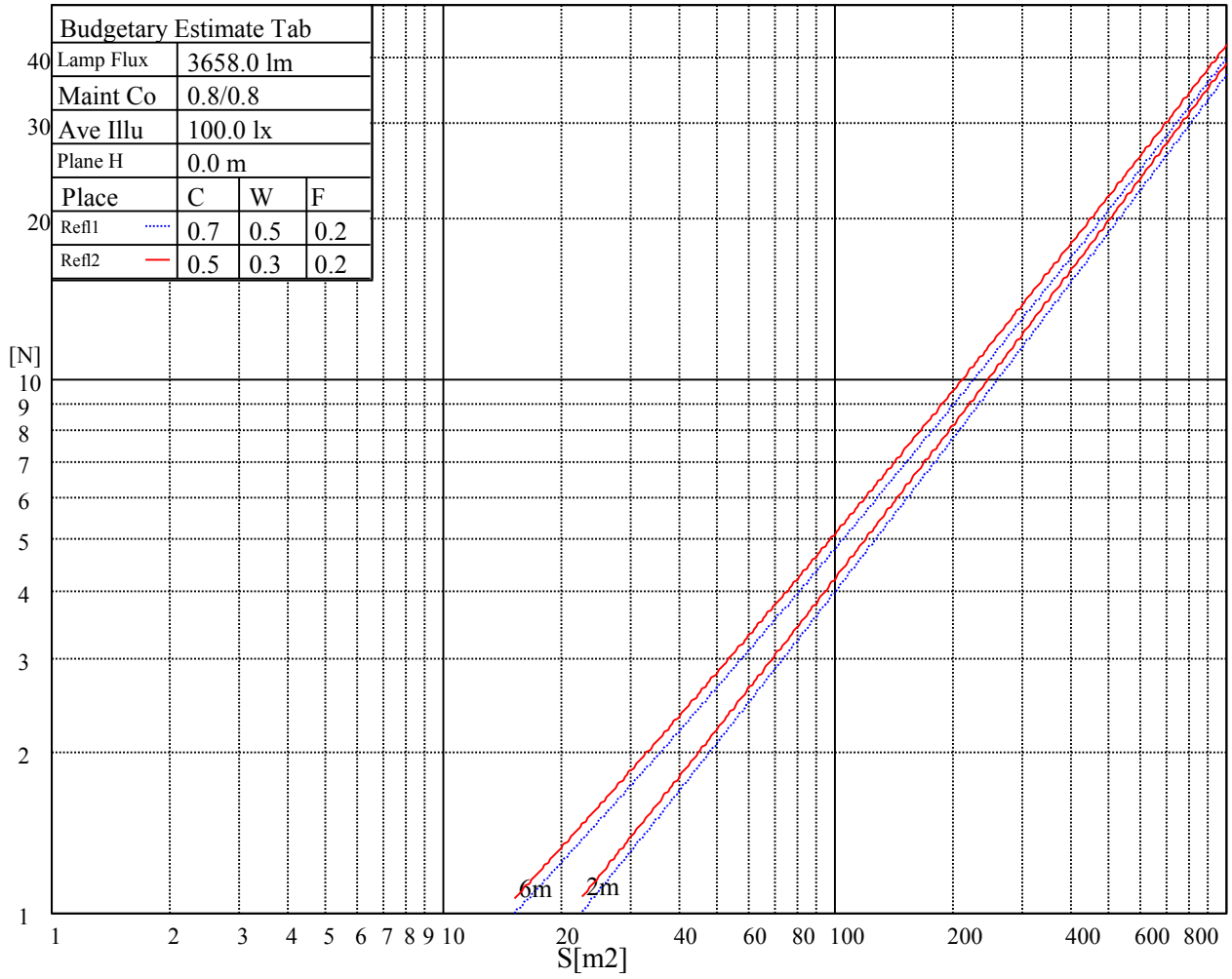


UGR Glare

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	8.67	9.62	9.04	9.93	10.25	8.73	9.68	9.10	9.99	10.31
	3H	10.76	11.60	11.15	11.94	12.30	10.84	11.68	11.23	12.01	12.38
	4H	11.88	12.66	12.29	13.01	13.40	11.96	12.74	12.37	13.09	13.48
	6H	13.13	13.84	13.55	14.22	14.61	13.21	13.92	13.63	14.30	14.69
	8H	13.82	14.49	14.26	14.88	15.29	13.90	14.57	14.34	14.96	15.37
	12H	15.01	15.64	15.44	16.03	16.46	15.09	15.73	15.53	16.11	16.55
4H	2H	9.22	10.00	9.63	10.35	10.74	9.27	10.04	9.68	10.40	10.79
	3H	11.61	12.25	12.03	12.66	13.07	11.68	12.32	12.10	12.73	13.13
	4H	12.92	13.49	13.36	13.92	14.37	12.99	13.56	13.43	13.99	14.44
	6H	14.28	14.77	14.75	15.22	15.69	14.35	14.83	14.82	15.29	15.76
	8H	15.11	15.56	15.58	16.01	16.49	15.18	15.63	15.65	16.08	16.56
	12H	16.30	16.69	16.79	17.18	17.65	16.37	16.76	16.86	17.25	17.73
8H	4H	13.42	13.87	13.90	14.32	14.80	13.48	13.93	13.95	14.38	14.86
	6H	15.07	15.43	15.58	15.94	16.42	15.12	15.48	15.63	15.99	16.47
	8H	16.09	16.41	16.62	16.93	17.43	16.14	16.46	16.68	16.99	17.48
	12H	17.54	17.81	18.06	18.31	18.89	17.60	17.87	18.12	18.37	18.95
12H	4H	13.53	13.92	14.02	14.41	14.89	13.59	13.98	14.08	14.47	14.94
	6H	15.53	15.62	15.83	16.09	16.64	15.58	15.66	15.88	16.14	16.69
	8H	16.44	16.71	16.96	17.21	17.79	16.49	16.76	17.01	17.26	17.84

Variation with the observer position at spacings:		
S = 1.0H	3.4/-1.8	3.4/-1.8
S = 1.5H	4.4/-1.4	4.4/-1.4
S = 2.0H	5.1/-1.2	5.1/-1.2
Standard tables:	BKBF	BKBF
Uncorrected UGR	4.6	4.6

Budgetary Estimate Table

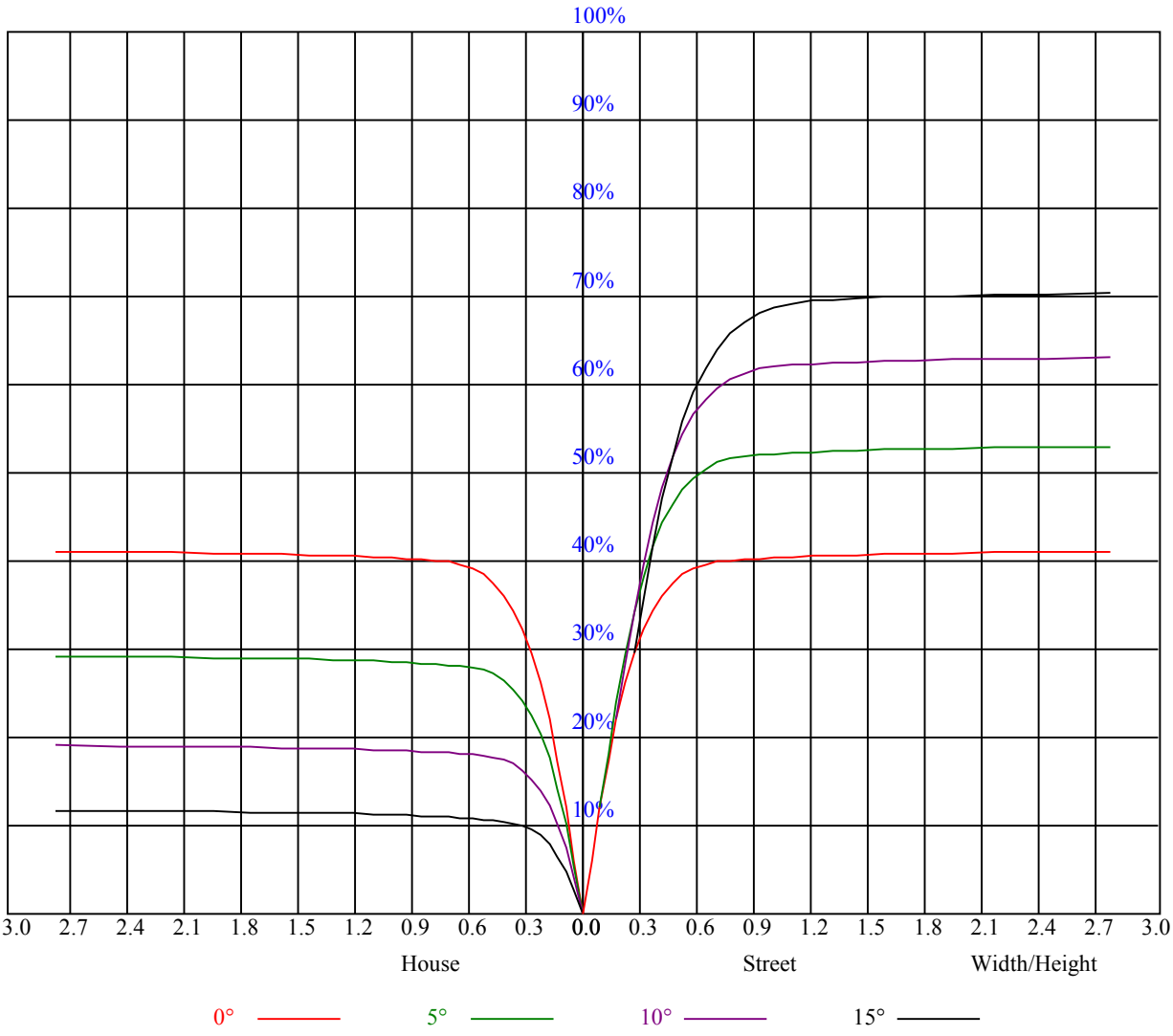


Equipment: GMS1980 Date: 2019/1/17 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	0.99	0.99	0.99	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.93	0.91	0.89	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.79
2	0.87	0.85	0.82	0.86	0.83	0.81	0.83	0.81	0.79	0.81	0.79	0.78	0.79	0.77	0.76	0.75
3	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.76	0.74	0.73	0.72
4	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.70	0.74	0.71	0.70	0.69
5	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.70	0.68	0.72	0.70	0.67	0.71	0.69	0.67	0.66
6	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.63
7	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.65	0.62	0.67	0.64	0.62	0.61
8	0.67	0.63	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.59
9	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.57
10	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.59	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.55

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/1/17	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	9841.50	9830.25	9711.00	9542.81	9327.94	9036.56	8706.38	8365.50	7945.88
45.0	9867.94	9822.38	9666.56	9483.19	9258.75	8918.44	8594.44	8236.69	7898.63
90.0	9866.81	9822.94	9685.69	9482.06	9221.06	8940.38	8624.25	8208.56	7740.00
135.0	9848.25	9857.81	9769.50	9617.06	9420.75	9136.13	8811.56	8475.75	8113.50
180.0	9841.50	9781.88	9643.50	9429.19	9201.38	8906.63	8569.69	8228.81	7787.25
225.0	9867.94	9811.13	9696.94	9497.81	9250.31	8939.25	8620.88	8263.13	7824.38
270.0	9866.81	9830.25	9699.19	9500.63	9268.88	8908.31	8571.94	8208.56	7819.31
315.0	9848.25	9770.06	9582.75	9371.81	9114.19	8781.19	8399.25	8017.31	7549.31
360.0	9841.50	9830.25	9711.00	9542.81	9327.94	9036.56	8706.38	8365.50	7945.88

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7477.88	7028.44	6501.38	6012.00	5473.13	4954.50	4521.94	4101.75	3616.88
45.0	7312.50	6850.13	6426.00	5810.63	5268.94	4866.75	4309.31	3900.38	3537.00
90.0	7301.81	6773.06	6234.19	5754.38	5280.19	4713.19	4289.06	3884.06	3452.06
135.0	7611.75	7170.75	6633.00	6144.19	5609.25	5101.31	4658.06	4240.13	3807.56
180.0	7359.75	6841.69	6308.44	5826.94	5299.31	4798.13	4371.75	3969.00	3494.25
225.0	7387.88	6871.50	6334.88	5843.81	5307.75	4798.69	4366.13	3964.50	3498.19
270.0	7275.38	6806.25	6325.31	5789.25	5254.31	4786.88	4293.00	3837.38	3466.69
315.0	7112.81	6588.00	6044.06	5559.75	5093.44	4539.38	4120.31	3735.00	3286.69
360.0	7477.88	7028.44	6501.38	6012.00	5473.13	4954.50	4521.94	4101.75	3616.88

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3274.31	2950.88	2623.50	2329.88	2098.69	1898.44	1699.31	1573.88	1451.81
45.0	3101.06	2788.88	2514.38	2199.38	1967.63	1808.44	1623.94	1504.69	1402.88
90.0	3062.81	2750.63	2431.69	2154.94	1939.50	1742.06	1601.44	1470.94	1357.31
135.0	3405.38	3077.44	2707.88	2439.00	2176.88	1980.00	1763.44	1626.75	1513.13
180.0	3146.63	2825.44	2506.50	2224.13	2009.81	1810.13	1650.38	1528.88	1414.69
225.0	3161.81	2847.94	2534.06	2252.25	2035.69	1826.44	1670.06	1551.94	1438.88
270.0	3087.00	2781.00	2477.25	2197.69	1987.31	1794.38	1636.88	1519.88	1428.19
315.0	2966.63	2671.88	2376.56	2113.31	1914.19	1735.88	1592.44	1485.56	1368.56
360.0	3274.31	2950.88	2623.50	2329.88	2098.69	1898.44	1699.31	1573.88	1451.81

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1350.00	1212.75	1078.31	919.69	761.06	626.63	486.00	367.88	288.00
45.0	1266.19	1113.19	968.63	807.75	654.75	527.63	393.75	286.31	183.15
90.0	1117.46	1101.49	928.80	789.98	656.10	502.88	390.60	293.18	194.74
135.0	1398.38	1258.88	1118.25	955.69	795.38	656.44	511.88	394.88	289.13
180.0	1306.69	1117.18	992.64	848.53	694.35	549.68	427.56	315.73	199.97
225.0	1327.50	1105.71	1017.96	877.28	744.92	585.56	462.43	346.22	221.57
270.0	1248.75	1107.00	982.69	807.75	659.25	551.25	402.75	284.63	228.43
315.0	1112.40	1076.85	901.18	778.95	640.52	462.43	358.93	252.34	143.16
360.0	1350.00	1212.75	1078.31	919.69	761.06	626.63	486.00	367.88	288.00

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	156.77	113.85	100.35	88.37	80.83	75.09	69.30	64.97	60.92
45.0	123.41	105.98	95.40	83.98	77.85	72.45	66.54	62.55	58.73
90.0	141.69	118.46	102.60	91.80	84.21	76.89	72.23	67.16	62.10
135.0	177.98	128.93	112.16	98.89	89.83	83.31	76.22	71.33	66.71
180.0	140.18	114.75	103.11	92.48	85.39	79.20	74.14	68.85	64.35
225.0	150.47	120.66	105.41	95.01	87.81	80.78	76.16	70.99	65.48
270.0	131.85	113.96	100.91	89.94	83.53	77.85	71.55	67.05	62.89
315.0	113.51	101.81	91.29	82.52	76.67	70.99	66.60	61.88	57.77
360.0	156.77	113.85	100.35	88.37	80.83	75.09	69.30	64.97	60.92

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	57.21	53.83	51.02	48.21	45.96	43.54	41.57	39.88	38.53
45.0	55.13	51.92	49.16	46.63	44.38	42.47	40.67	39.21	37.80
90.0	58.89	55.74	51.81	49.44	47.14	44.16	42.47	40.78	38.93
135.0	62.16	58.16	55.01	51.81	49.39	46.58	44.44	42.47	40.61
180.0	60.75	57.04	53.83	51.24	48.77	46.18	44.21	42.36	40.95
225.0	62.10	58.16	54.11	51.75	49.22	46.01	44.27	42.36	40.44
270.0	58.39	55.35	52.43	49.50	46.80	44.66	42.53	40.67	39.09
315.0	54.62	51.30	48.26	46.07	43.93	41.68	39.88	38.53	37.29
360.0	57.21	53.83	51.02	48.21	45.96	43.54	41.57	39.88	38.53

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	37.13	35.83	34.76	33.30	32.23	31.16	30.09	29.08	28.07
45.0	36.51	35.38	34.14	32.91	31.95	30.66	29.59	28.58	27.62
90.0	37.29	36.28	34.88	33.75	32.57	31.16	30.21	29.08	27.96
135.0	38.98	37.69	36.39	34.88	33.75	32.46	31.05	29.98	28.91
180.0	38.93	37.69	36.39	34.76	33.53	32.18	31.16	29.93	28.91
225.0	38.98	37.63	36.00	34.54	33.30	31.84	30.83	29.53	28.35
270.0	37.74	36.45	34.99	33.75	32.57	31.33	30.09	29.03	27.96
315.0	35.83	34.65	33.53	32.18	31.11	30.09	29.03	27.96	27.11
360.0	37.13	35.83	34.76	33.30	32.23	31.16	30.09	29.08	28.07

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	27.23	26.38	25.71	24.98	24.36	23.68	23.12	22.56	21.94
45.0	26.72	25.82	25.14	24.41	23.79	23.18	22.67	22.11	21.54
90.0	27.11	26.21	25.31	24.64	23.96	23.29	22.73	22.16	21.60
135.0	27.84	26.94	26.04	25.26	24.58	23.85	23.23	22.73	22.11
180.0	27.90	26.94	26.10	25.31	24.53	23.91	23.23	22.61	22.11
225.0	27.56	26.61	25.59	24.92	24.19	23.40	22.84	22.16	21.66
270.0	27.06	26.10	25.31	24.64	23.91	23.29	22.78	22.22	21.60
315.0	26.16	25.26	24.64	23.91	23.29	22.73	22.11	21.60	21.15
360.0	27.23	26.38	25.71	24.98	24.36	23.68	23.12	22.56	21.94

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	21.38	20.87	20.36	19.80	19.29	18.90	18.39	17.89	17.44
45.0	21.04	20.53	20.08	19.46	19.01	18.51	18.17	17.61	17.16
90.0	21.04	20.48	19.97	19.52	18.96	18.45	18.00	17.55	17.04
135.0	21.49	20.98	20.53	19.86	19.35	18.90	18.39	17.83	17.38
180.0	21.43	20.87	20.31	19.69	19.18	18.73	18.23	17.72	17.27
225.0	21.04	20.53	20.03	19.58	19.01	18.62	18.11	17.61	17.16
270.0	21.04	20.59	20.08	19.46	19.07	18.68	18.11	17.66	17.27
315.0	20.59	20.03	19.63	19.07	18.56	18.17	17.66	17.21	16.76
360.0	21.38	20.87	20.36	19.80	19.29	18.90	18.39	17.89	17.44

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	17.04	16.59	16.09	15.69	15.30	14.96	14.51	14.18	13.73
45.0	16.71	16.26	15.86	15.47	15.08	14.68	14.29	13.95	13.61
90.0	16.65	16.31	15.86	15.47	14.85	14.34	13.95	13.67	13.33
135.0	16.99	16.59	16.14	15.69	15.30	14.91	14.57	14.06	13.73
180.0	16.88	16.43	15.92	15.58	15.19	14.85	14.23	13.84	13.56
225.0	16.76	16.37	15.86	15.53	15.19	14.79	14.40	13.95	13.67
270.0	16.82	16.43	16.09	15.75	15.08	14.40	13.95	13.61	13.33
315.0	16.43	15.98	15.58	15.19	14.85	14.40	14.01	13.73	13.39
360.0	17.04	16.59	16.09	15.69	15.30	14.96	14.51	14.18	13.73

Intensity data(cd)

C/γ(°)	90.0
0.0	13.44
45.0	13.33
90.0	13.22
135.0	13.44
180.0	13.33
225.0	13.50
270.0	13.22
315.0	13.16
360.0	13.44