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Nata

LumCAT: LN01D05024DA-N
Luminaire: 97.70.234.00
Report No: 200805-B002
Test No: 200805-C002
LampCAT: CREE CXA1304 LES6
Lamp flux(lm): 502.6
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 36.9600
Current(A): 0.1500
Power (W): 5.5440
PF: 0.0000
Ballast type: DC
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 454.62
Efficiency(%): 90.45%
Lumens(lm)/Power(W): 82.00
Central intensity(cd): 2088.562
Maximum intensity(cd): 2088.562
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.2
[C90/270]Total=25.2
Field angle(10%Imax): [C0/180]Total=41.5
[C90/270]Total=41.5
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
Maximum s/h(1/4): C0_180=0.41 C90_270=0.41
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.45%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.143%

Nata LM01D05024DA

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2088.563	0.000	0	.000%	.000%
1.0	2084.484	1.997	1.997	.397%	.439%
2.0	2071.969	5.966	7.962	1.187%	1.751%
3.0	2049.047	9.856	17.819	1.961%	3.919%
4.0	2013.328	13.598	31.417	2.705%	6.911%
5.0	1965.023	17.115	48.531	3.405%	10.675%
6.0	1889.438	20.256	68.788	4.030%	15.131%
7.0	1800.703	22.905	91.692	4.557%	20.169%
8.0	1702.758	25.074	116.766	4.989%	25.684%
9.0	1569.516	26.520	143.286	5.276%	31.518%
10.0	1412.234	26.984	170.27	5.369%	37.453%
11.0	1283.105	26.932	197.201	5.358%	43.377%
12.0	1126.884	26.345	223.546	5.241%	49.172%
13.0	984.185	25.053	248.599	4.984%	54.683%
14.0	850.992	23.490	272.089	4.674%	59.850%
15.0	720.380	21.572	293.662	4.292%	64.595%
16.0	600.103	19.349	313.011	3.850%	68.851%
17.0	490.753	16.988	329.998	3.380%	72.588%
18.0	393.947	14.587	344.585	2.902%	75.797%
19.0	320.850	12.436	357.021	2.474%	78.532%
20.0	251.283	10.472	367.493	2.083%	80.835%
21.0	194.491	8.560	376.052	1.703%	82.718%
22.0	151.200	6.947	382.999	1.382%	84.246%
23.0	119.862	5.688	388.687	1.132%	85.497%
24.0	94.901	4.695	393.382	.934%	86.530%
25.0	77.449	3.919	397.301	.780%	87.392%
26.0	65.278	3.369	400.67	.670%	88.133%
27.0	55.716	2.960	403.63	.589%	88.784%
28.0	48.255	2.632	406.263	.524%	89.364%
29.0	42.750	2.381	408.644	.474%	89.887%
30.0	38.215	2.186	410.83	.435%	90.368%
31.0	34.277	2.017	412.847	.401%	90.812%
32.0	31.071	1.872	414.719	.372%	91.224%
33.0	28.470	1.754	416.473	.349%	91.609%
34.0	26.191	1.654	418.127	.329%	91.973%
35.0	24.124	1.563	419.69	.311%	92.317%
36.0	22.388	1.481	421.171	.295%	92.643%
37.0	20.876	1.411	422.582	.281%	92.953%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	19.455	1.346	423.928	.268%	93.249%
39.0	18.127	1.283	425.211	.255%	93.531%
40.0	16.945	1.223	426.434	.243%	93.801%
41.0	15.891	1.169	427.603	.233%	94.058%
42.0	14.815	1.116	428.719	.222%	94.303%
43.0	13.788	1.060	429.779	.211%	94.536%
44.0	12.867	1.006	430.785	.200%	94.757%
45.0	11.995	0.955	431.74	.190%	94.968%
46.0	11.123	0.904	432.644	.180%	95.167%
47.0	10.350	0.854	433.498	.170%	95.354%
48.0	9.668	0.809	434.307	.161%	95.532%
49.0	8.993	0.766	435.074	.152%	95.701%
50.0	8.332	0.722	435.796	.144%	95.860%
51.0	7.854	0.685	436.481	.136%	96.010%
52.0	7.404	0.655	437.136	.130%	96.154%
53.0	6.982	0.626	437.761	.125%	96.292%
54.0	6.645	0.601	438.362	.119%	96.424%
55.0	6.370	0.581	438.943	.116%	96.552%
56.0	6.124	0.565	439.508	.112%	96.676%
57.0	5.899	0.550	440.057	.109%	96.797%
58.0	5.695	0.536	440.594	.107%	96.915%
59.0	5.505	0.524	441.117	.104%	97.030%
60.0	5.344	0.513	441.63	.102%	97.143%
61.0	5.175	0.502	442.132	.100%	97.253%
62.0	5.020	0.491	442.623	.098%	97.362%
63.0	4.901	0.483	443.105	.096%	97.468%
64.0	4.760	0.474	443.58	.094%	97.572%
65.0	4.627	0.465	444.044	.092%	97.674%
66.0	4.521	0.456	444.5	.091%	97.774%
67.0	4.409	0.449	444.95	.089%	97.873%
68.0	4.310	0.442	445.391	.088%	97.970%
69.0	4.212	0.435	445.826	.086%	98.066%
70.0	4.134	0.429	446.255	.085%	98.160%
71.0	4.015	0.421	446.676	.084%	98.253%
72.0	3.959	0.415	447.09	.082%	98.344%
73.0	3.994	0.416	447.506	.083%	98.436%
74.0	4.268	0.434	447.941	.086%	98.531%
75.0	4.767	0.477	448.418	.095%	98.636%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.224	0.530	448.948	.106%	98.753%
77.0	5.534	0.574	449.522	.114%	98.879%
78.0	5.667	0.600	450.121	.119%	99.011%
79.0	5.562	0.603	450.725	.120%	99.144%
80.0	5.126	0.576	451.301	.115%	99.270%
81.0	4.500	0.521	451.822	.104%	99.385%
82.0	3.748	0.447	452.269	.089%	99.483%
83.0	3.164	0.376	452.644	.075%	99.566%
84.0	2.883	0.329	452.974	.066%	99.638%
85.0	2.770	0.309	453.282	.061%	99.706%
86.0	2.637	0.296	453.578	.059%	99.771%
87.0	2.461	0.279	453.857	.056%	99.833%
88.0	2.327	0.262	454.119	.052%	99.890%
89.0	2.271	0.252	454.371	.050%	99.946%
90.0	2.229	0.247	454.618	.049%	100.000%

Zonal flux distribution table

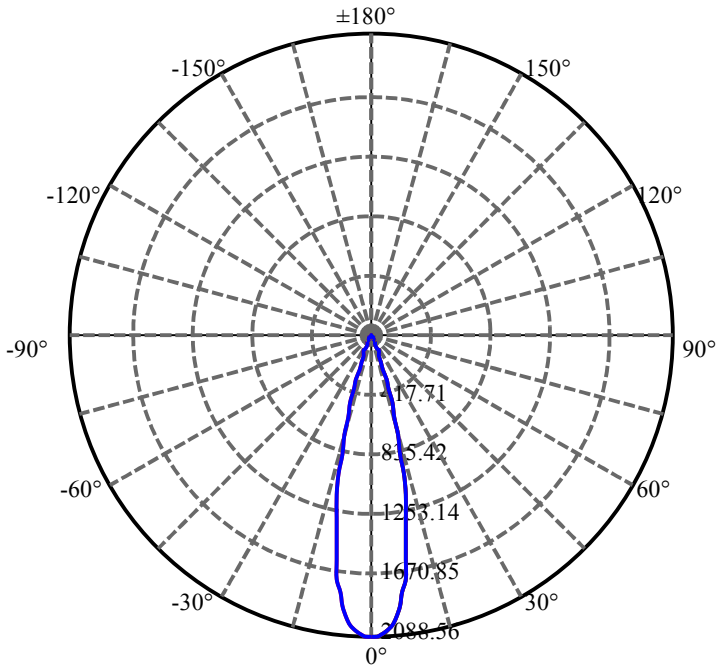
ZONAL LUMEN SUMMARY

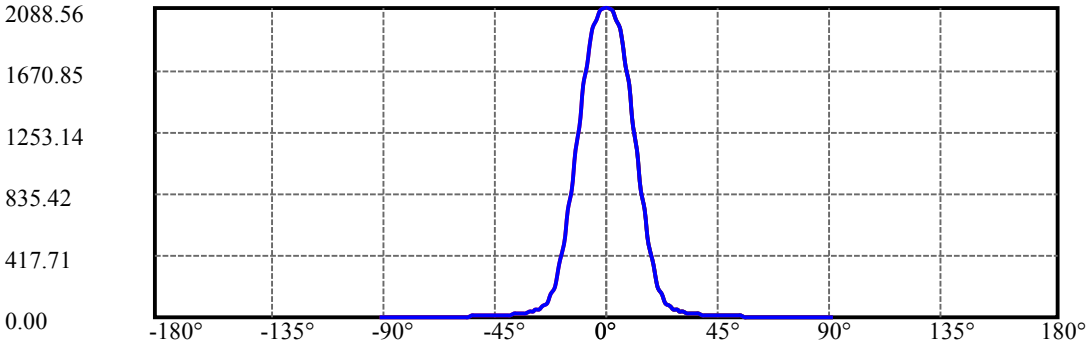
Zone	Lumens	%Lamp	%Fixt
0-30	410.83	81.74%	90.37%
0-40	426.43	84.84%	93.80%
0-60	441.63	87.87%	97.14%
0-90	454.37	90.40%	99.95%
0-120	454.37	90.40%	99.95%
0-180	454.62	90.45%	100.00%
60-90	13.25	2.64%	2.92%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-19.64	363.69	72.36%	80.00%

ZONAL LUMEN SUMMARY

0-10	170.27
10-20	197.22
20-30	43.34
30-40	15.60
40-50	9.36
50-60	5.83
60-70	4.62
70-80	5.05
80-90	3.07
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:

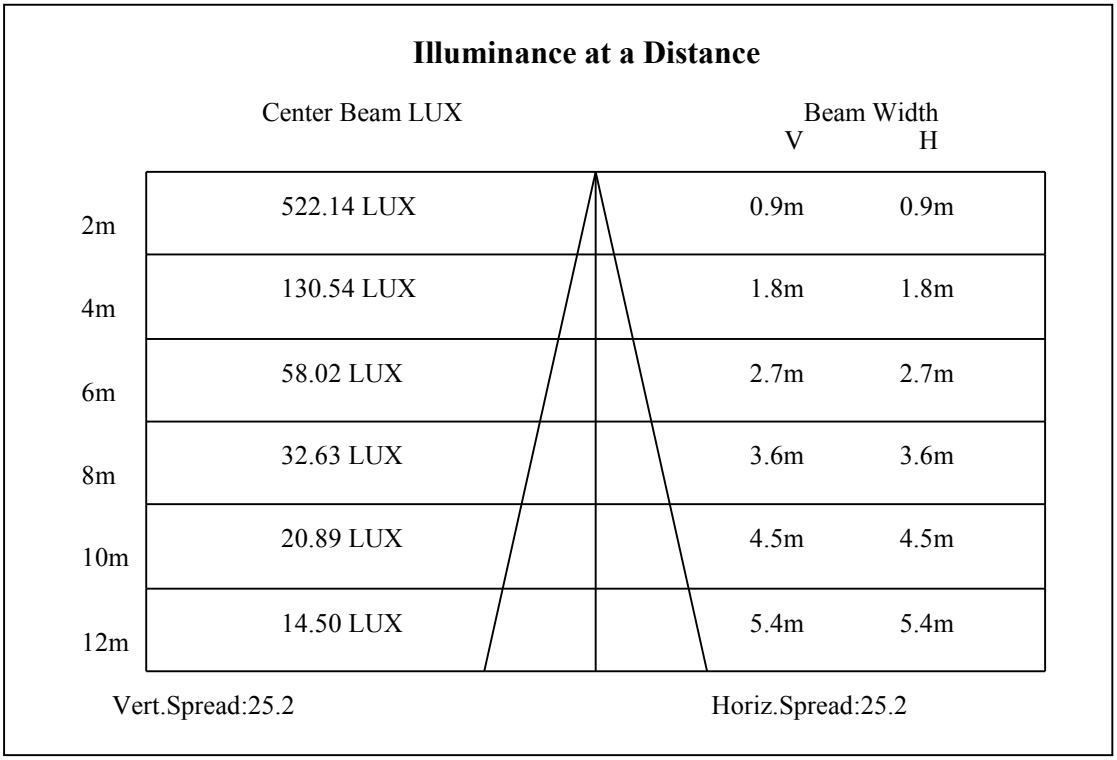
C90/C270:

Field angle(10%Imax):C0/180Left:20.7 Right:20.7
:C90/270Left:20.7 Right:20.7

Beam Angle(50%Imax):C0/180Left:12.6 Right:12.6
:C90/270Left:12.6 Right:12.6

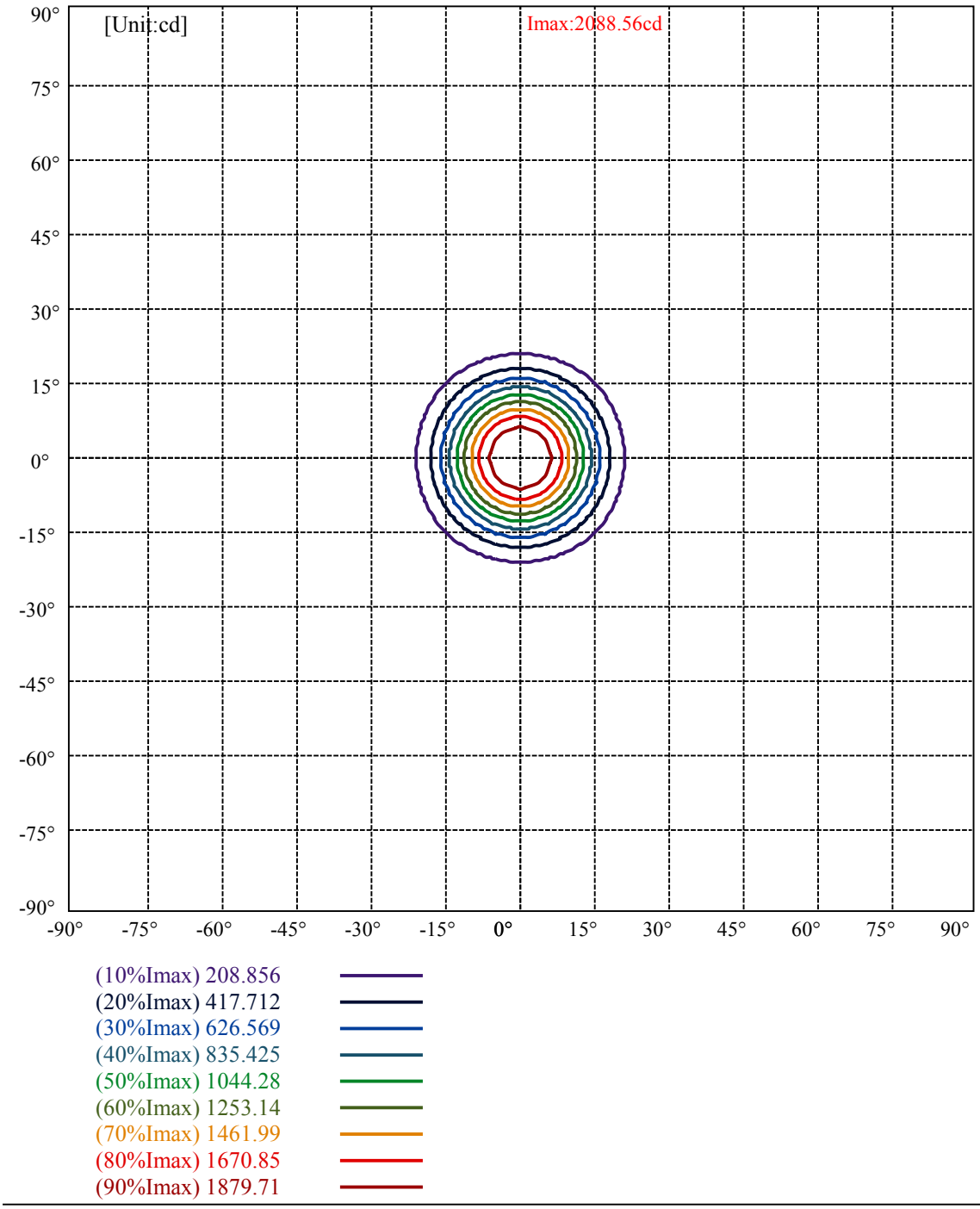
Equipment: GMS1980 Date: 2020/8/05 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

Lux distance Curve



Equipment: GMS1980 Date: 2020/8/05 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

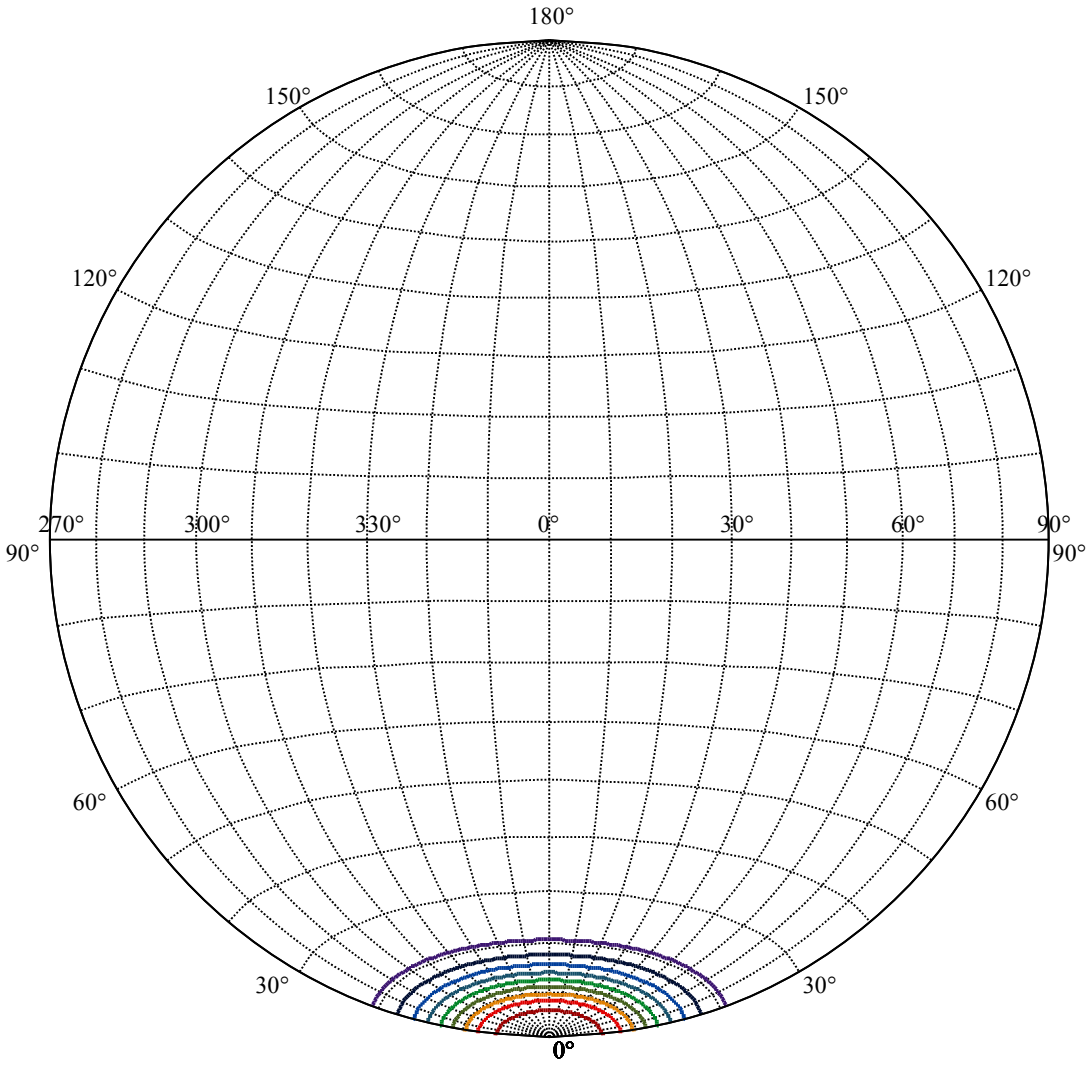


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/8/05
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



[Unit:cd]

Imax:2088.56

(10%Imax) 208.856
(20%Imax) 417.712
(30%Imax) 626.569
(40%Imax) 835.425
(50%Imax) 1044.28
(60%Imax) 1253.14
(70%Imax) 1461.99
(80%Imax) 1670.85
(90%Imax) 1879.71

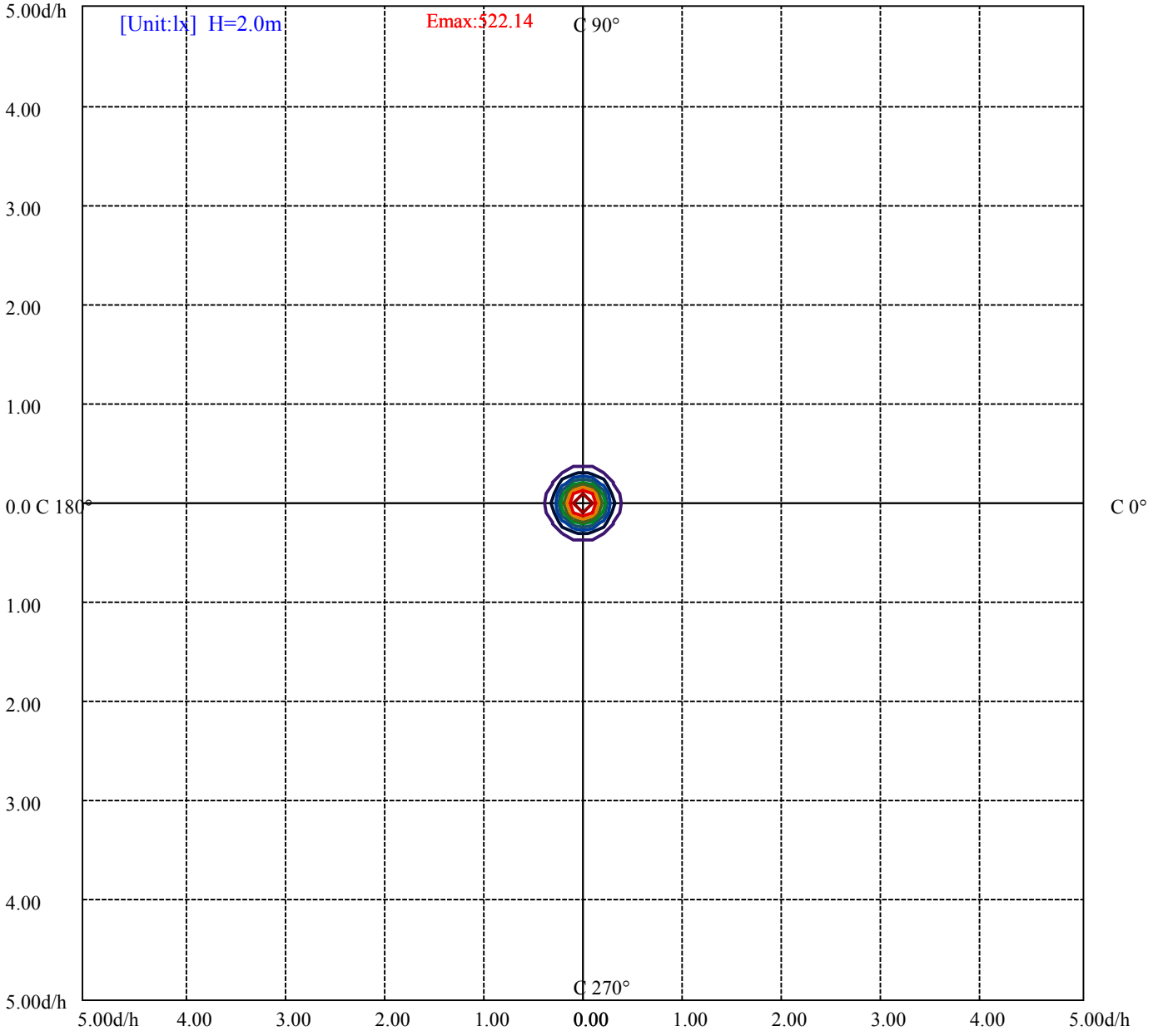
Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/8/05
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Nata LM01D05024DA

ISO illuminance diagram



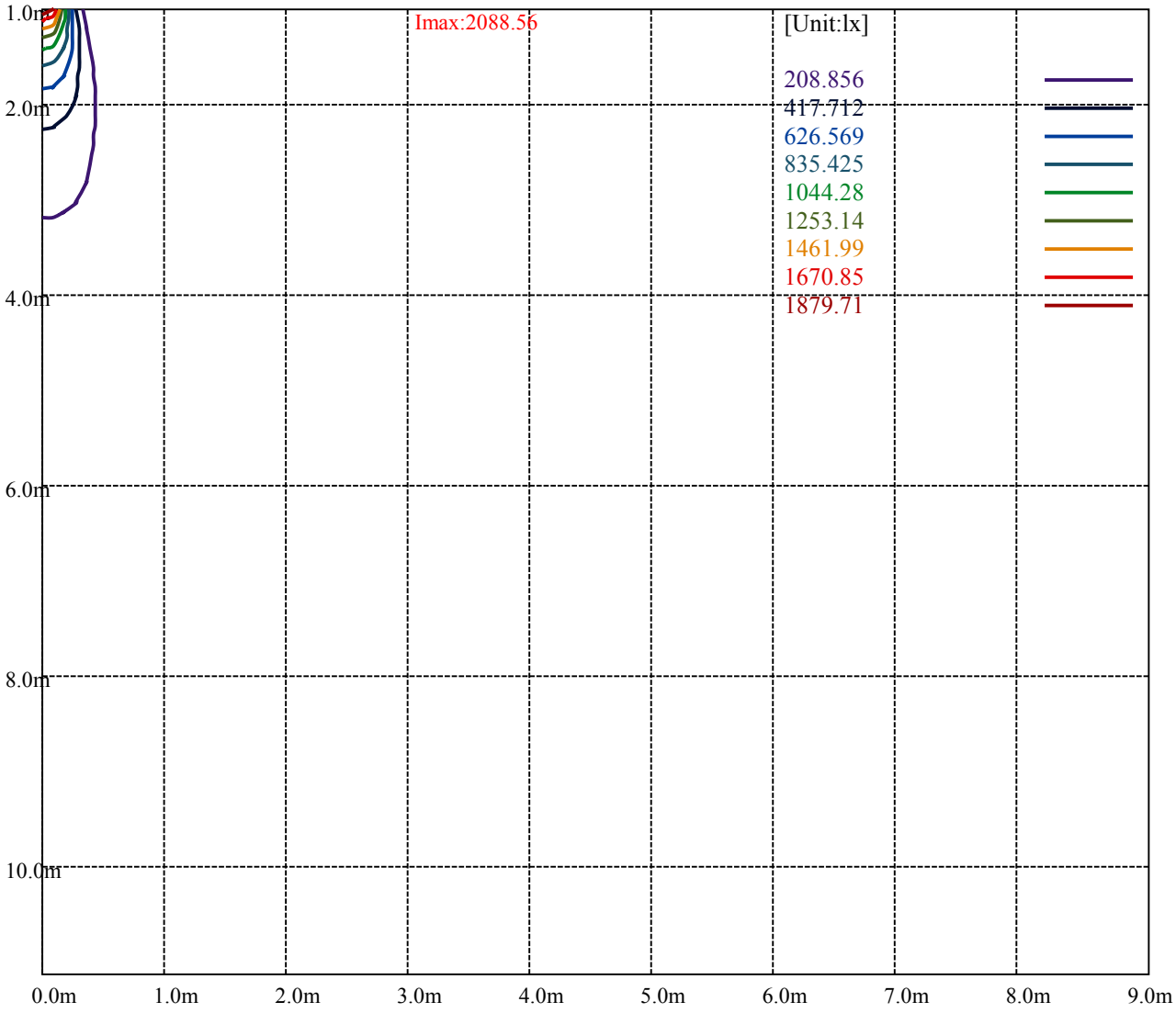
(10%Emax) 52.214
(20%Emax) 104.428
(30%Emax) 156.642
(40%Emax) 208.8562
(50%Emax) 261.07
(60%Emax) 313.285
(70%Emax) 365.4975
(80%Emax) 417.7125
(90%Emax) 469.9275

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/8/05
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/8/05
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Nata LM01D05024DA

Luminance Limitting Curve(no luminous side)

Luminance Table

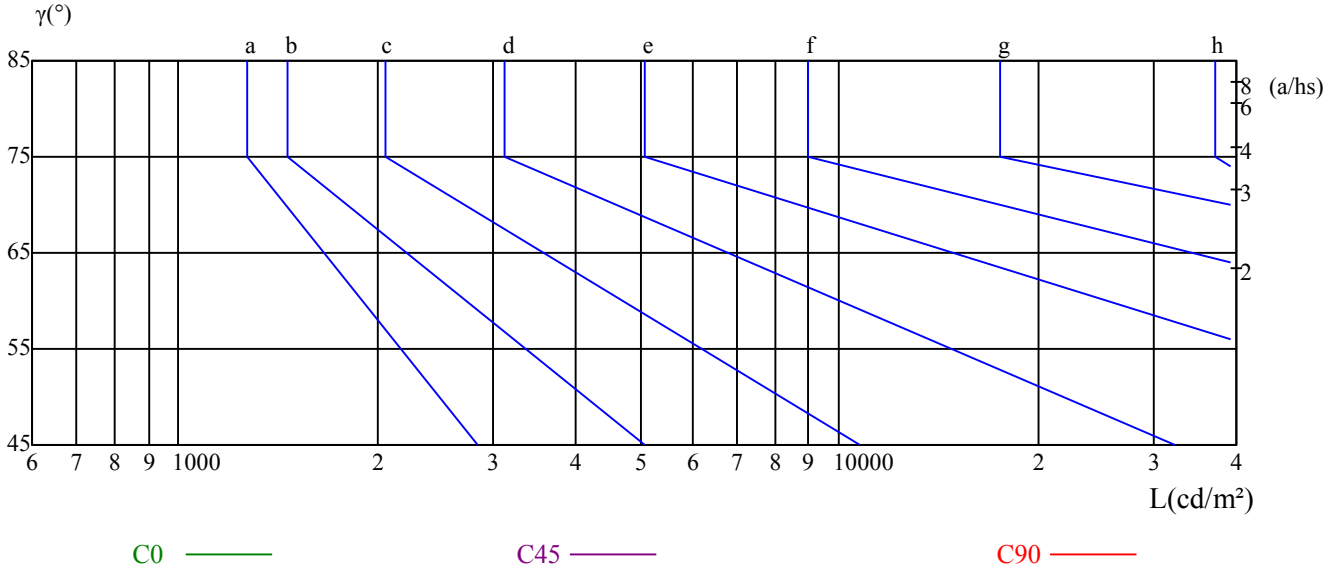
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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

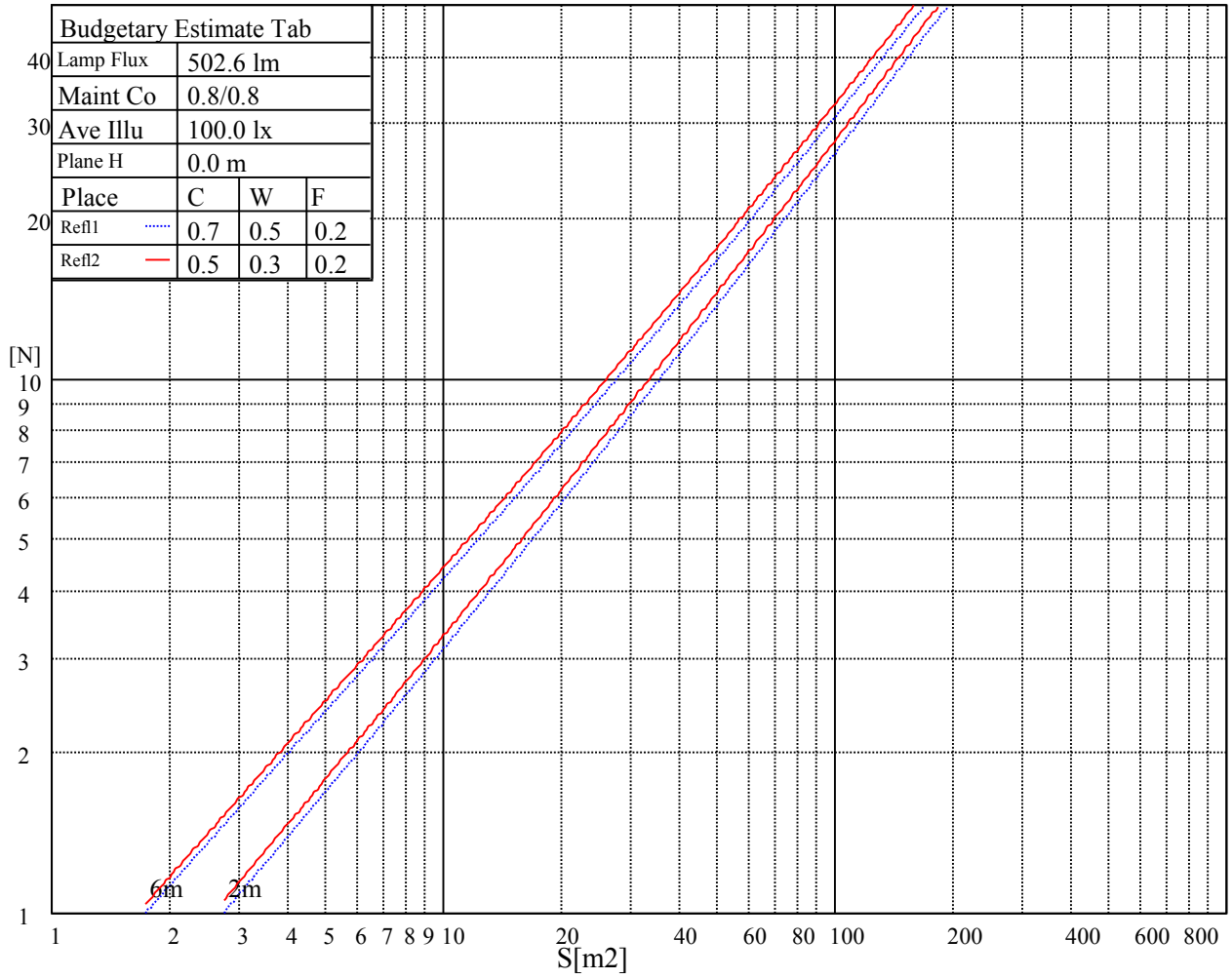
Luminance Limitting Curve



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	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
	3H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
	4H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
	6H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
	8H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
	12H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
4H	2H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
	3H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
	4H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
	6H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
	8H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
	12H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
8H	4H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
	6H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
	8H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
	12H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
12H	4H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
	6H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大
	8H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷 大

Variation with the observer position at spacings:		
S = 1.0H	非数字/非数字	非数字/非数字
S = 1.5H	非数字/非数字	非数字/非数字
S = 2.0H	非数字/非数字	非数字/非数字
Standard tables:	BK0	BK0
Uncorrected UGR	负无穷大	负无穷大

Budgetary Estimate Table

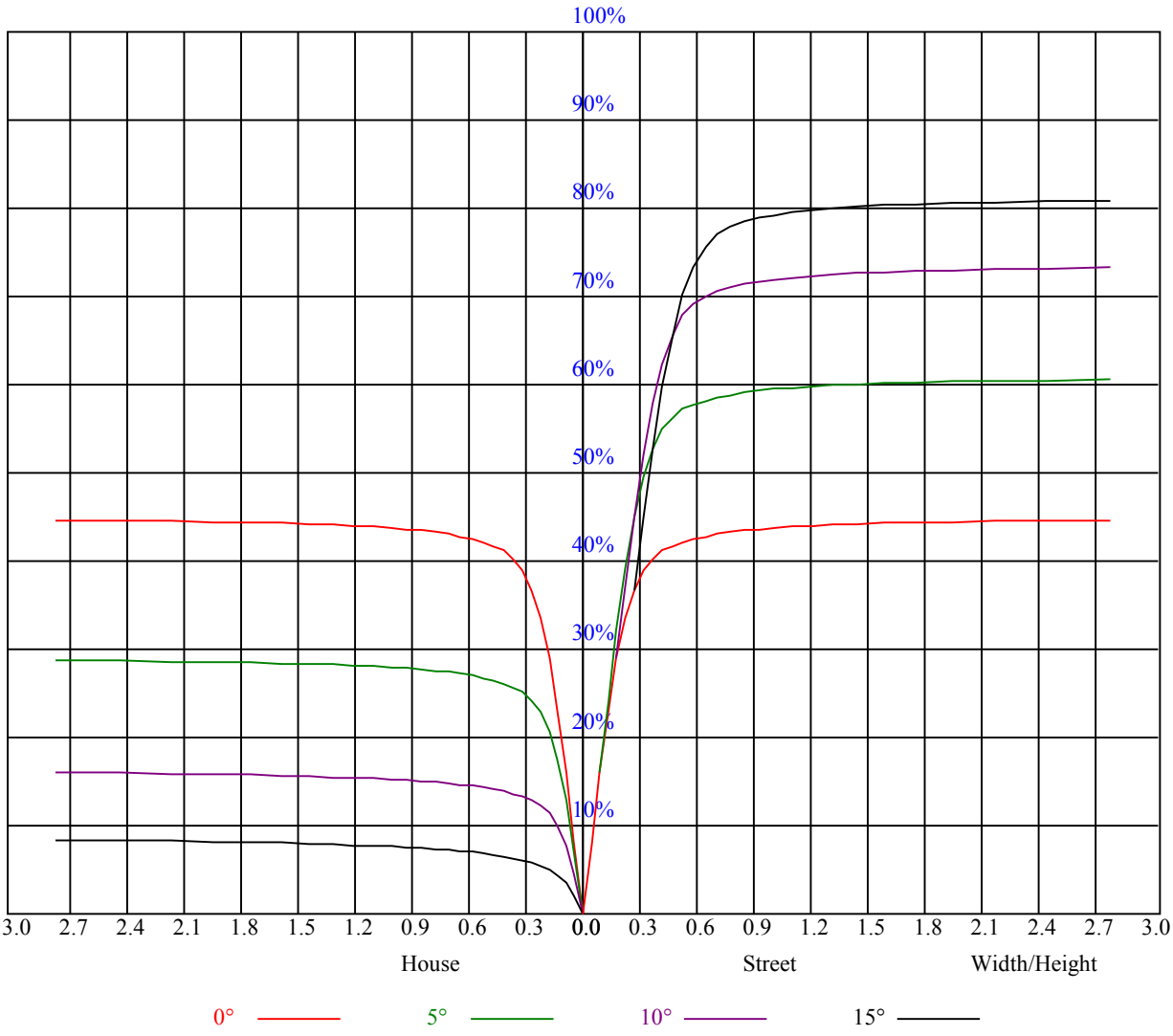


Equipment: GMS1980 Date: 2020/8/05 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.08	1.08	1.08	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	0.89	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	0.87	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	0.83	0.80	0.77	0.81	0.79	0.76	0.80	0.78	0.76	0.75
6	0.82	0.78	0.75	0.81	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.78	0.76	0.74	0.73
7	0.79	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.74	0.72	0.71
8	0.77	0.73	0.71	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.72	0.70	0.69
9	0.75	0.71	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.73	0.70	0.68	0.67
10	0.73	0.69	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.71	0.69	0.66	0.71	0.68	0.66	0.65

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2020/8/05	Operator: NT07
Temperature(°C): 25.0	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	2094.75	2094.19	2086.88	2069.44	2042.44	2011.50	1963.69	1892.81	1818.00
45.0	2084.06	2071.69	2049.75	2023.31	1987.88	1935.00	1868.63	1794.94	1709.44
90.0	2084.06	2062.69	2030.63	1992.94	1940.06	1879.88	1792.69	1691.44	1584.00
135.0	2091.38	2080.69	2053.69	2021.63	1967.06	1900.13	1818.56	1708.88	1595.25
180.0	2094.75	2085.75	2067.19	2023.88	1976.06	1905.75	1773.00	1675.13	1546.31
225.0	2084.06	2089.13	2090.25	2077.88	2048.06	2001.38	1932.75	1825.31	1719.56
270.0	2084.06	2095.88	2101.50	2102.06	2086.88	2061.56	1999.13	1928.81	1852.31
315.0	2091.38	2095.88	2095.88	2081.25	2058.19	2025.00	1967.06	1888.31	1797.19
360.0	2094.75	2094.19	2086.88	2069.44	2042.44	2011.50	1963.69	1892.81	1818.00

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1717.31	1596.94	1476.00	1345.50	1177.31	1040.63	906.19	763.31	631.69
45.0	1579.50	1460.25	1330.88	1179.56	1029.38	898.88	758.25	630.56	525.94
90.0	1462.50	1299.94	1113.58	1031.23	873.56	753.81	641.25	538.31	421.03
135.0	1455.75	1300.50	1161.56	1024.88	860.06	736.88	624.38	498.38	408.38
180.0	1369.69	1117.18	1081.63	944.61	782.16	661.16	552.49	445.50	352.86
225.0	1593.56	1419.19	1275.19	1109.03	949.73	814.61	690.75	563.06	461.25
270.0	1701.56	1569.94	1428.19	1267.88	1105.88	961.31	810.56	686.81	560.81
315.0	1676.25	1533.94	1397.81	1112.40	1095.41	940.67	779.18	674.89	564.08
360.0	1717.31	1596.94	1476.00	1345.50	1177.31	1040.63	906.19	763.31	631.69

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	528.19	426.94	338.63	288.56	210.43	167.63	130.16	101.93	83.42
45.0	418.50	341.44	286.31	206.78	159.69	124.88	101.14	80.66	68.12
90.0	339.30	270.62	208.97	160.88	128.25	101.08	81.62	68.96	58.33
135.0	332.44	297.56	198.96	157.22	124.99	95.68	79.09	66.60	56.64
180.0	274.28	217.41	172.07	129.21	103.84	85.05	68.40	58.89	51.81
225.0	364.50	283.89	226.35	174.26	134.72	108.45	88.59	70.65	60.30
270.0	449.44	365.06	285.19	217.18	172.18	137.14	104.85	85.84	71.66
315.0	444.94	363.88	293.79	221.85	175.50	138.99	105.36	86.06	71.94
360.0	528.19	426.94	338.63	288.56	210.43	167.63	130.16	101.93	83.42

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	69.58	57.49	50.63	45.11	39.60	35.94	32.91	30.15	27.23
45.0	57.60	50.01	44.27	39.54	34.82	31.78	29.25	26.44	24.58
90.0	51.19	44.61	39.26	35.33	32.12	28.74	26.49	24.58	22.44
135.0	49.33	44.10	38.81	35.16	31.61	28.63	26.44	24.30	22.50
180.0	45.96	40.33	36.56	33.24	30.15	27.51	25.59	23.63	21.94
225.0	52.65	45.11	40.56	36.68	33.02	29.98	27.68	25.43	23.68
270.0	60.19	51.81	45.84	40.50	36.11	32.85	29.81	27.51	25.20
315.0	59.23	52.59	46.07	40.16	36.79	33.13	29.59	27.51	25.43
360.0	69.58	57.49	50.63	45.11	39.60	35.94	32.91	30.15	27.23

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	25.31	23.29	21.71	20.14	18.79	17.66	16.48	15.47	14.46
45.0	22.95	21.15	19.63	18.39	17.10	15.98	14.85	13.78	12.88
90.0	20.98	19.63	18.23	16.99	15.92	14.85	13.84	12.77	11.87
135.0	21.09	20.08	18.45	17.38	16.48	15.30	14.18	13.39	12.38
180.0	20.64	19.24	18.17	16.93	15.75	14.85	13.89	12.83	11.98
225.0	21.88	20.31	18.96	17.66	16.43	15.41	14.46	13.33	12.43
270.0	23.23	21.66	20.25	18.68	17.49	16.48	15.30	14.29	13.39
315.0	23.01	21.66	20.25	18.84	17.61	16.59	15.53	14.46	13.56
360.0	25.31	23.29	21.71	20.14	18.79	17.66	16.48	15.47	14.46

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	13.56	12.49	11.70	10.97	10.24	9.39	8.83	8.33	7.71
45.0	11.93	11.03	10.35	9.73	8.83	8.33	7.88	7.31	6.92
90.0	11.08	10.24	9.51	8.89	8.27	7.65	7.31	6.86	6.53
135.0	11.48	10.80	9.96	9.34	8.72	8.04	7.65	7.20	6.81
180.0	11.19	10.29	9.68	9.06	8.44	7.88	7.48	7.09	6.75
225.0	11.59	10.69	9.90	9.23	8.55	7.93	7.48	7.03	6.69
270.0	12.49	11.59	10.74	9.96	9.34	8.55	7.99	7.59	7.09
315.0	12.66	11.87	10.97	10.18	9.56	8.89	8.21	7.82	7.37
360.0	13.56	12.49	11.70	10.97	10.24	9.39	8.83	8.33	7.71

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	7.31	6.98	6.64	6.36	6.13	5.91	5.68	5.51	5.34
45.0	6.64	6.36	6.08	5.91	5.74	5.51	5.40	5.23	5.06
90.0	6.24	6.02	5.79	5.57	5.40	5.23	5.12	4.95	4.78
135.0	6.53	6.24	6.02	5.79	5.63	5.40	5.18	5.06	4.89
180.0	6.47	6.24	6.08	5.85	5.63	5.46	5.29	5.12	5.01
225.0	6.36	6.08	5.91	5.68	5.51	5.34	5.23	5.06	4.89
270.0	6.69	6.41	6.13	5.91	5.68	5.51	5.34	5.18	5.01
315.0	6.92	6.64	6.36	6.13	5.85	5.68	5.51	5.29	5.18
360.0	7.31	6.98	6.64	6.36	6.13	5.91	5.68	5.51	5.34

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	5.18	5.06	4.89	4.78	4.67	4.50	4.39	4.33	4.16
45.0	4.95	4.78	4.67	4.56	4.44	4.39	4.28	4.16	4.11
90.0	4.73	4.56	4.44	4.33	4.22	4.16	4.05	3.99	3.94
135.0	4.78	4.61	4.50	4.39	4.28	4.11	4.05	3.94	3.83
180.0	4.89	4.73	4.56	4.50	4.39	4.28	4.16	4.11	3.94
225.0	4.78	4.73	4.61	4.50	4.39	4.33	4.22	4.16	4.05
270.0	4.89	4.73	4.61	4.50	4.39	4.33	4.28	4.22	4.05
315.0	5.01	4.89	4.73	4.61	4.50	4.39	4.28	4.16	4.05
360.0	5.18	5.06	4.89	4.78	4.67	4.50	4.39	4.33	4.16

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	4.11	3.99	3.88	3.77	3.66	3.54	3.49	3.38	3.26
45.0	3.99	3.94	3.94	4.28	4.73	5.23	5.68	5.91	5.68
90.0	4.05	4.84	6.47	8.61	9.68	10.35	10.41	9.56	7.76
135.0	3.77	3.66	3.49	3.43	3.38	3.26	3.15	3.09	2.98
180.0	3.83	3.71	3.66	3.54	3.43	3.38	3.26	3.15	3.04
225.0	3.94	3.88	4.11	4.44	4.95	5.34	5.63	5.63	5.06
270.0	3.99	4.11	4.84	6.41	8.44	9.73	10.35	10.58	10.07
315.0	3.99	3.83	3.77	3.66	3.54	3.43	3.38	3.21	3.15
360.0	4.11	3.99	3.88	3.77	3.66	3.54	3.49	3.38	3.26

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.21	3.09	3.04	2.93	2.81	2.70	2.64	2.53	2.42
45.0	4.89	3.77	3.04	2.93	2.87	2.76	2.48	2.31	2.31
90.0	6.08	4.33	3.15	2.93	2.93	2.59	2.31	2.25	2.19
135.0	2.87	2.81	2.70	2.64	2.53	2.42	2.31	2.25	2.19
180.0	2.98	2.87	2.76	2.64	2.53	2.48	2.36	2.25	2.25
225.0	4.22	3.38	2.98	2.87	2.81	2.64	2.42	2.31	2.19
270.0	8.72	6.75	4.78	3.38	3.04	2.93	2.70	2.36	2.31
315.0	3.04	2.98	2.87	2.76	2.64	2.59	2.48	2.36	2.31
360.0	3.21	3.09	3.04	2.93	2.81	2.70	2.64	2.53	2.42

Intensity data(cd)

C/γ(°)	90.0
0.0	2.36
45.0	2.19
90.0	2.19
135.0	2.19
180.0	2.25
225.0	2.19
270.0	2.19
315.0	2.25
360.0	2.36