NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

LumCAT: 3-1548-A3
Luminaire: 99.02.73.172+92.76.365.00

Report No: NATA0100	Voltage(V): 34.5000
Test No: GC2018082815	Current(A): 0.5000
LampCAT: SAMSUNG LC026D	Power (W): 17.2500
Lamp flux(lm): 2486.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 79	Width(mm): 79
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2285.46
Efficiency(%): 91.93%
Lumens(lm)/Power(W): 132.68
Central intensity(cd): 14223.820
Maximum intensity(cd): 14223.820
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=16.8
[C90/270]Total=16.8
Field angle(10%Imax): [C0/180]Total=35.3
[C90/270]Total=35.3
Maximum s/h(1/2): C0_180=0.29 C90_270=0.29
Maximum s/h(1/4): C0_180=0.29 C90_270=0.29
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.07%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.488%

Equipment: GMS1980	Date: 2018/8/28	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.42

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	14223.821	3.403	3.403	.137%	.149%
1.0	14090.309	26.967	30.37	1.085%	1.329%
2.0	13708.355	52.463	82.833	2.110%	3.624%
3.0	12996.958	74.592	157.425	3.000%	6.888%
4.0	12278.610	93.926	251.351	3.778%	10.998%
5.0	11175.210	106.808	358.159	4.296%	15.671%
6.0	10045.384	115.147	473.306	4.632%	20.709%
7.0	8753.142	116.980	590.286	4.706%	25.828%
8.0	7599.779	115.987	706.272	4.666%	30.903%
9.0	6370.163	109.278	815.551	4.396%	35.684%
10.0	5204.137	99.099	914.65	3.986%	40.020%
11.0	4283.526	89.630	1004.28	3.605%	43.942%
12.0	3536.341	80.628	1084.908	3.243%	47.470%
13.0	2828.247	69.768	1154.676	2.806%	50.523%
14.0	2336.318	61.981	1216.657	2.493%	53.235%
15.0	2027.314	57.540	1274.197	2.315%	55.752%
16.0	1717.278	51.908	1326.104	2.088%	58.023%
17.0	1521.002	48.766	1374.87	1.962%	60.157%
18.0	1366.500	46.307	1421.177	1.863%	62.183%
19.0	1246.780	44.513	1465.69	1.791%	64.131%
20.0	1159.963	43.506	1509.195	1.750%	66.035%
21.0	1087.680	42.745	1551.94	1.719%	67.905%
22.0	1035.370	42.533	1594.473	1.711%	69.766%
23.0	997.354	42.735	1637.207	1.719%	71.636%
24.0	964.389	43.015	1680.222	1.730%	73.518%
25.0	935.133	43.338	1723.561	1.743%	75.414%
26.0	913.654	43.921	1767.482	1.767%	77.336%
27.0	891.886	44.403	1811.884	1.786%	79.279%
28.0	870.221	44.801	1856.686	1.802%	81.239%
29.0	849.204	45.148	1901.833	1.816%	83.214%
30.0	822.990	45.125	1946.958	1.815%	85.189%
31.0	780.486	44.082	1991.04	1.773%	87.118%
32.0	727.770	42.292	2033.331	1.701%	88.968%
33.0	665.164	39.727	2073.059	1.598%	90.706%
34.0	584.031	35.814	2108.873	1.441%	92.273%
35.0	502.754	31.623	2140.495	1.272%	93.657%
36.0	417.059	26.882	2167.378	1.081%	94.833%
37.0	332.265	21.928	2189.306	.882%	95.793%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	253.032	17.083	2206.389	.687%	96.540%
39.0	171.783	11.855	2218.244	.477%	97.059%
40.0	116.919	8.241	2226.485	.332%	97.419%
41.0	68.194	4.906	2231.392	.197%	97.634%
42.0	41.547	3.049	2234.44	.123%	97.768%
43.0	26.152	1.956	2236.396	.079%	97.853%
44.0	20.550	1.565	2237.961	.063%	97.922%
45.0	16.600	1.287	2239.249	.052%	97.978%
46.0	13.984	1.103	2240.352	.044%	98.026%
47.0	12.959	1.039	2241.391	.042%	98.072%
48.0	12.099	0.986	2242.377	.040%	98.115%
49.0	11.810	0.977	2243.354	.039%	98.158%
50.0	11.617	0.976	2244.33	.039%	98.200%
51.0	11.452	0.976	2245.306	.039%	98.243%
52.0	11.307	0.977	2246.283	.039%	98.286%
53.0	11.156	0.977	2247.26	.039%	98.328%
54.0	11.025	0.978	2248.238	.039%	98.371%
55.0	10.915	0.980	2249.219	.039%	98.414%
56.0	10.805	0.982	2250.201	.040%	98.457%
57.0	10.715	0.985	2251.187	.040%	98.500%
58.0	10.640	0.989	2252.176	.040%	98.544%
59.0	10.564	0.993	2253.169	.040%	98.587%
60.0	10.502	0.997	2254.167	.040%	98.631%
61.0	10.440	1.001	2255.168	.040%	98.674%
62.0	10.392	1.006	2256.174	.040%	98.718%
63.0	10.344	1.011	2257.185	.041%	98.763%
64.0	10.302	1.015	2258.2	.041%	98.807%
65.0	10.275	1.021	2259.221	.041%	98.852%
66.0	10.240	1.026	2260.247	.041%	98.897%
67.0	10.227	1.032	2261.28	.042%	98.942%
68.0	10.185	1.036	2262.315	.042%	98.987%
69.0	10.185	1.043	2263.358	.042%	99.033%
70.0	10.137	1.045	2264.403	.042%	99.079%
71.0	10.130	1.050	2265.453	.042%	99.124%
72.0	10.117	1.055	2266.508	.042%	99.171%
73.0	10.096	1.059	2267.567	.043%	99.217%
74.0	10.075	1.062	2268.629	.043%	99.263%
75.0	10.068	1.066	2269.695	.043%	99.310%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.055	1.070	2270.765	.043%	99.357%
77.0	10.041	1.073	2271.838	.043%	99.404%
78.0	10.020	1.075	2272.913	.043%	99.451%
79.0	10.013	1.078	2273.991	.043%	99.498%
80.0	10.000	1.080	2275.071	.043%	99.545%
81.0	9.986	1.082	2276.152	.044%	99.593%
82.0	10.062	1.093	2277.245	.044%	99.640%
83.0	10.055	1.094	2278.339	.044%	99.688%
84.0	10.158	1.108	2279.447	.045%	99.737%
85.0	10.247	1.119	2280.567	.045%	99.786%
86.0	10.206	1.116	2281.683	.045%	99.835%
87.0	9.890	1.083	2282.766	.044%	99.882%
88.0	9.841	1.079	2283.845	.043%	99.929%
89.0	9.841	1.079	2284.924	.043%	99.976%
90.0	9.834	0.539	2285.463	.022%	100.000%

Zonal flux distribution table

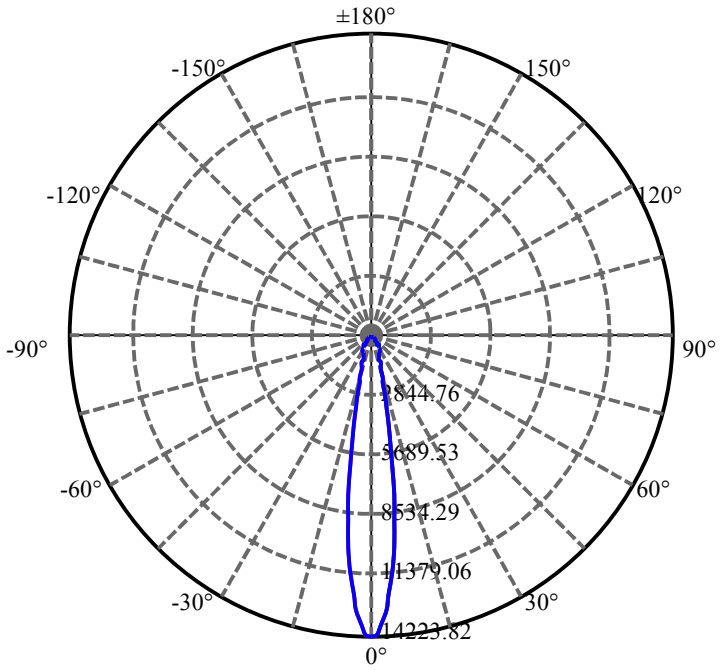
ZONAL LUMEN SUMMARY

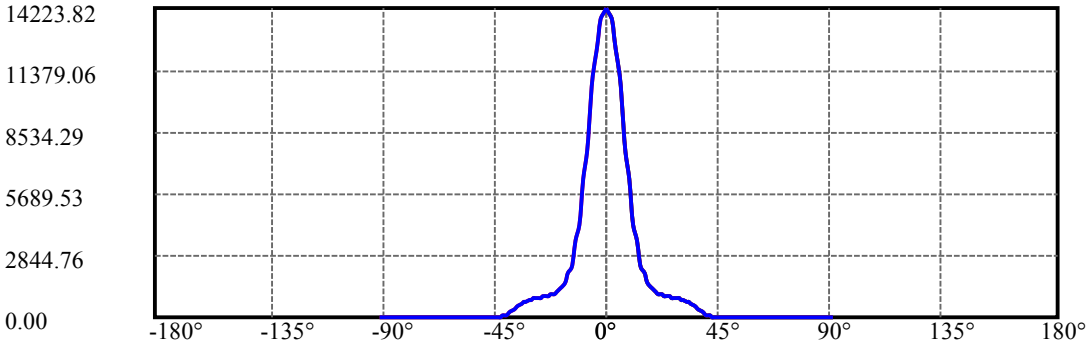
Zone	Lumens	%Lamp	%Fixt
0-30	1946.96	78.32%	85.19%
0-40	2226.49	89.56%	97.42%
0-60	2254.17	90.67%	98.63%
0-90	2284.92	91.91%	99.98%
0-120	2284.92	91.91%	99.98%
0-180	2285.46	91.93%	100.00%
60-90	31.75	1.28%	1.39%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.37	1828.37	73.55%	80.00%

ZONAL LUMEN SUMMARY

0-10	914.65
10-20	594.55
20-30	437.76
30-40	279.53
40-50	17.84
50-60	9.84
60-70	10.24
70-80	10.67
80-90	9.85
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):

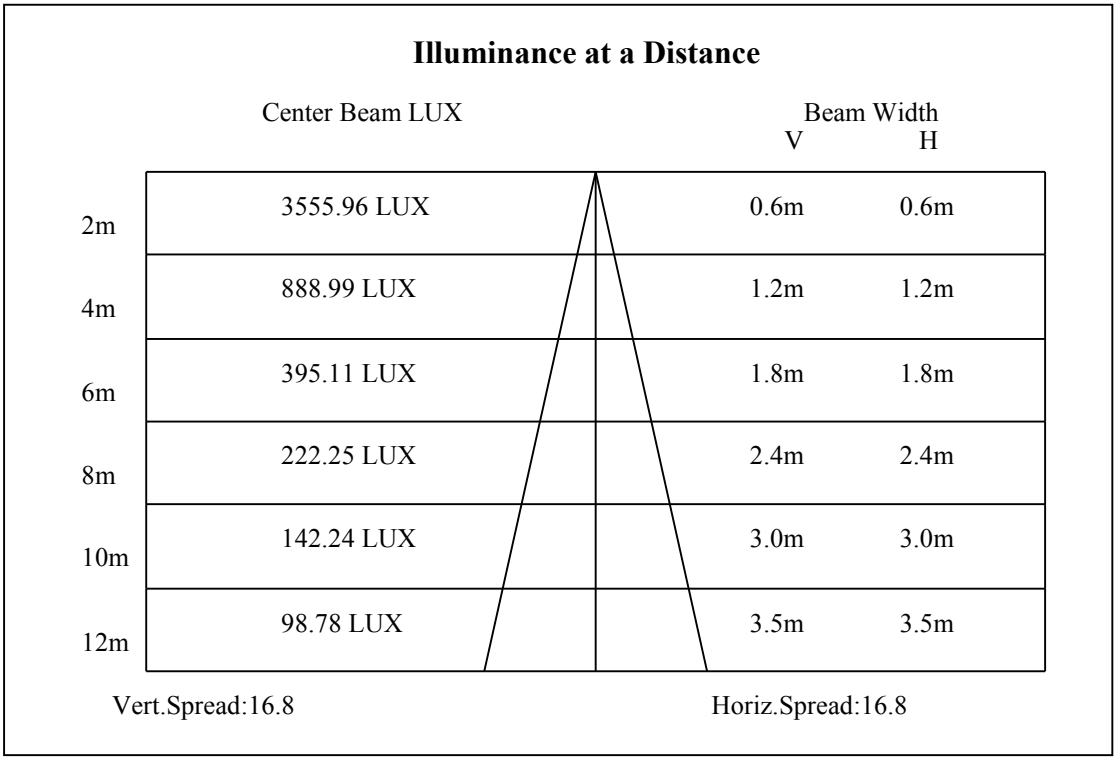
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:17.6 Right:17.6
:C90/270Left:17.6 Right:17.6

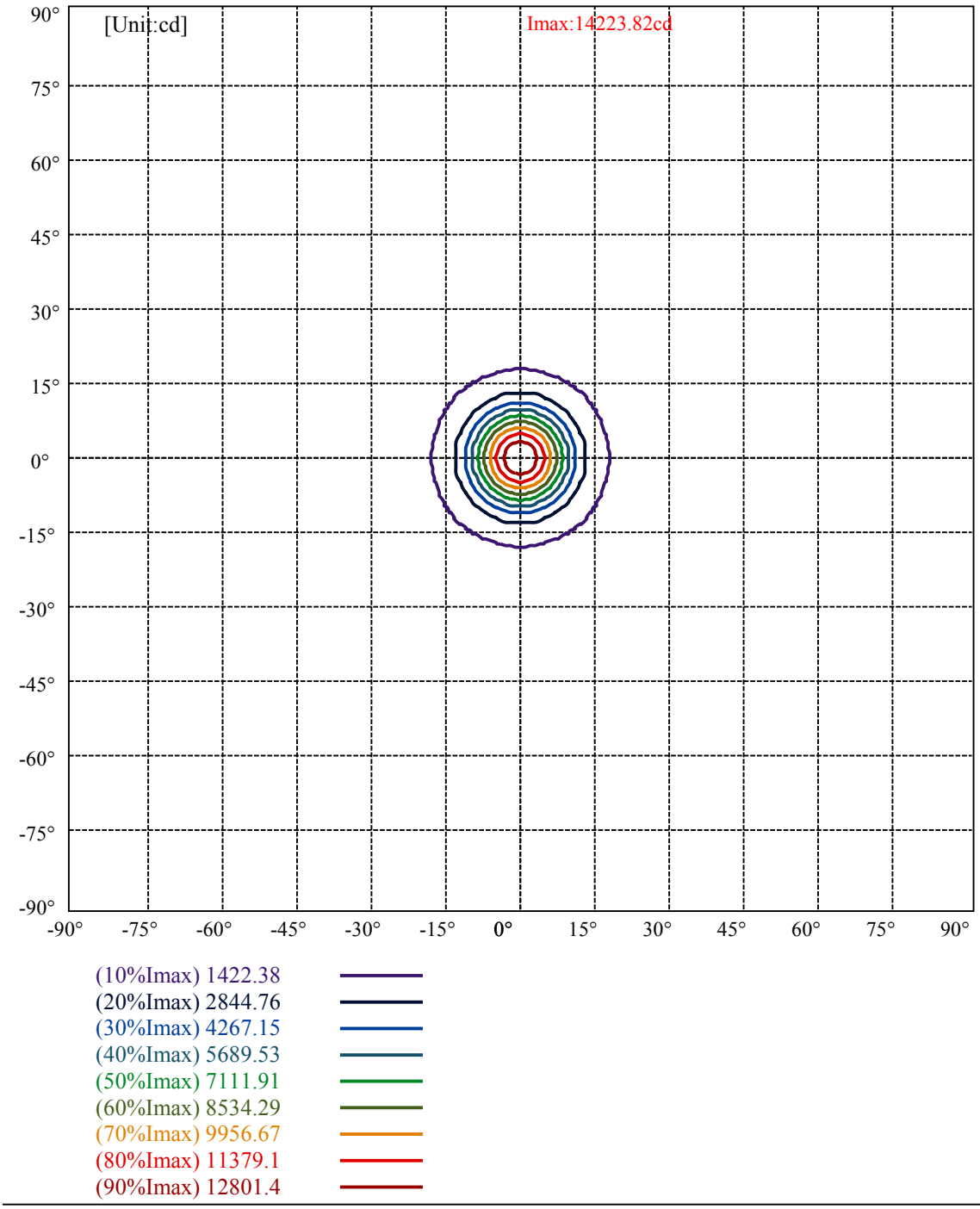
Beam Angle(50%Imax):C0/180Left:8.4 Right:8.4
:C90/270Left:8.4 Right:8.4

Lux distance Curve



Equipment: GMS1980 Date: 2018/8/28 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.42

ISO-Intensity(V-H)

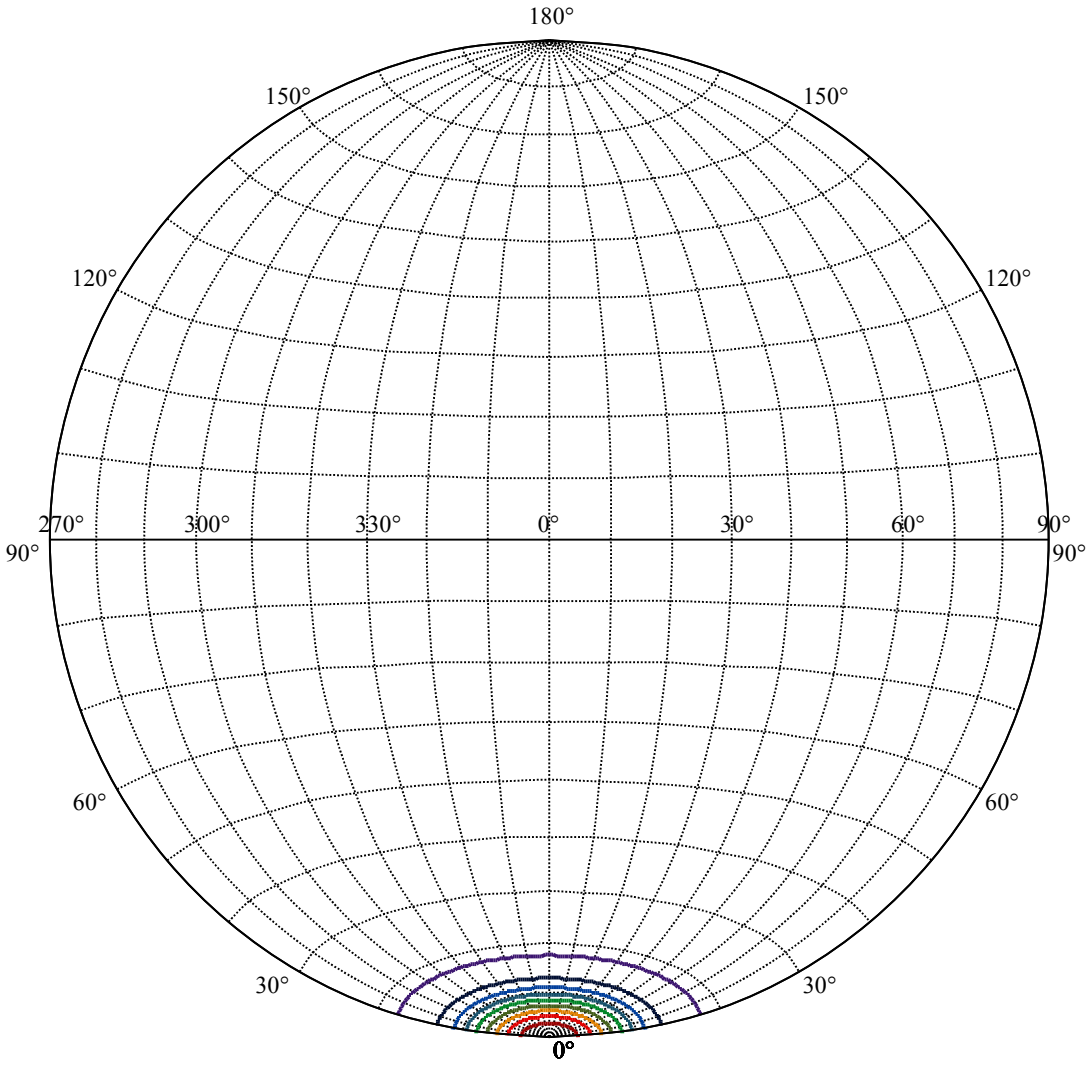


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/8/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:14223.82

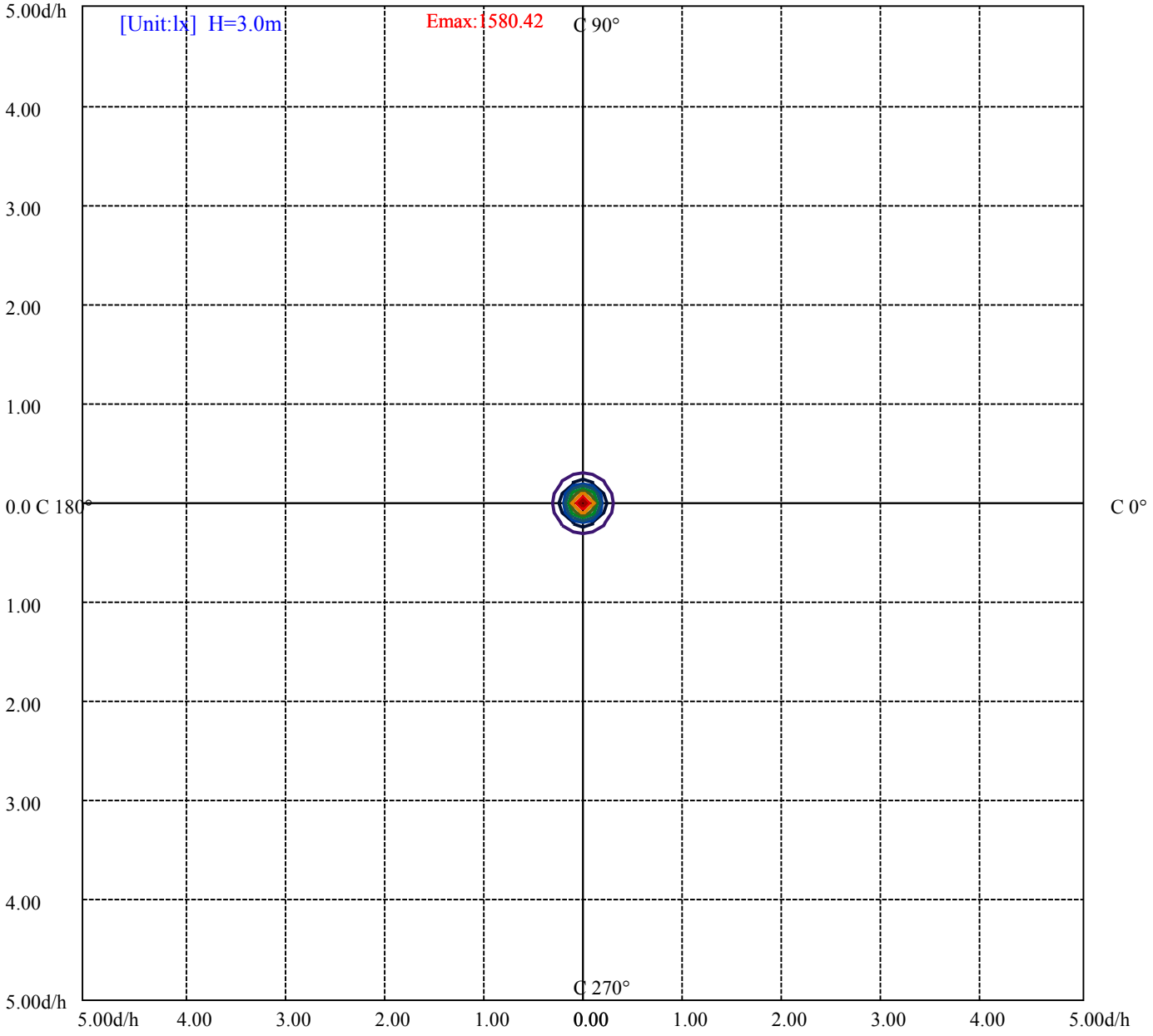
(10%Imax) 1422.38
(20%Imax) 2844.76
(30%Imax) 4267.15
(40%Imax) 5689.53
(50%Imax) 7111.91
(60%Imax) 8534.29
(70%Imax) 9956.67
(80%Imax) 11379.1
(90%Imax) 12801.4

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/8/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

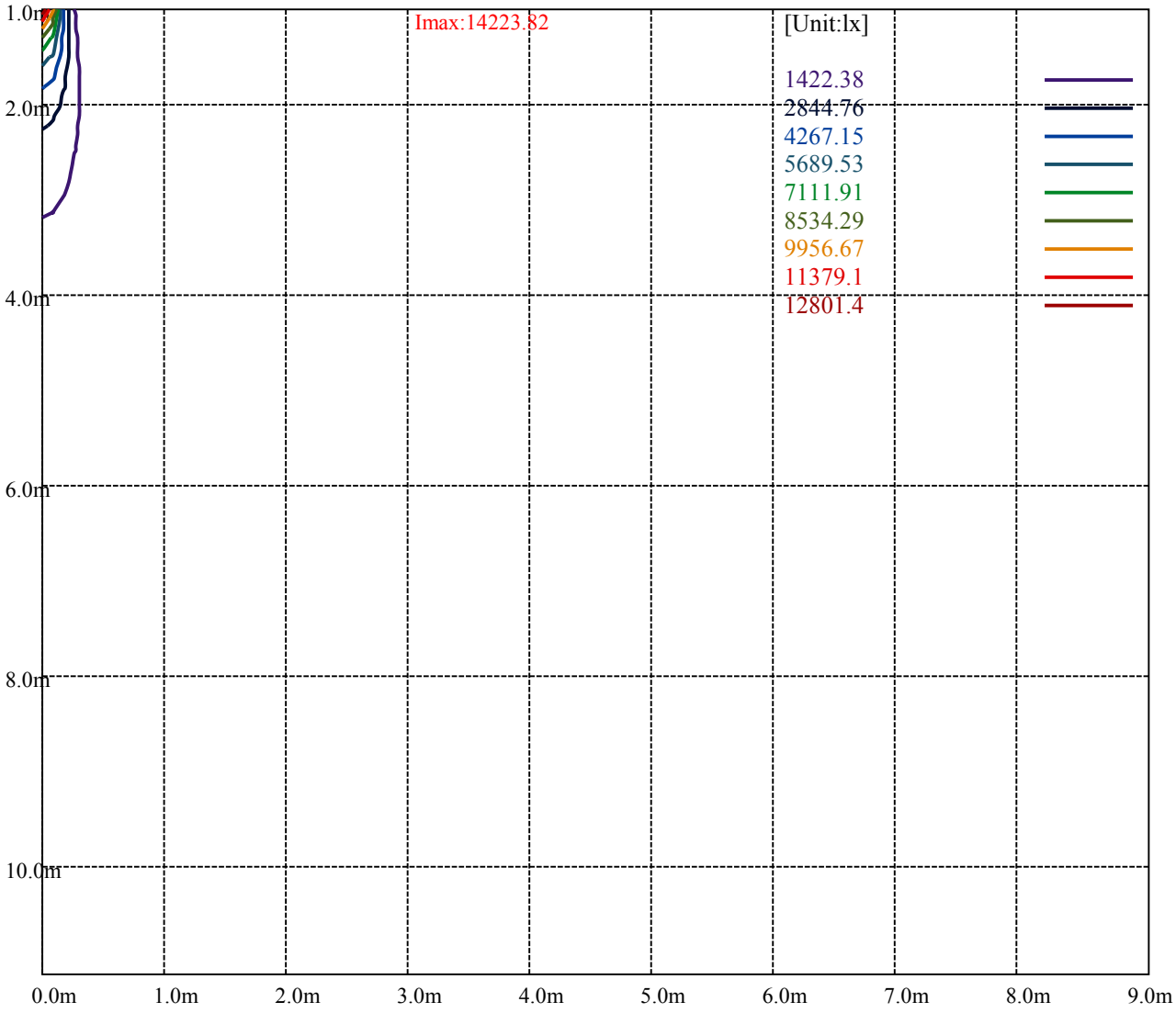
ISO illuminance diagram



(10%Emax) 158.0422
(20%Emax) 316.0844
(30%Emax) 474.1267
(40%Emax) 632.1689
(50%Emax) 790.2111
(60%Emax) 948.2534
(70%Emax) 1106.296
(80%Emax) 1264.333
(90%Emax) 1422.378

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2018/8/28
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.42

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/8/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

Luminance Limitting Curve(no luminous side)

Luminance Table

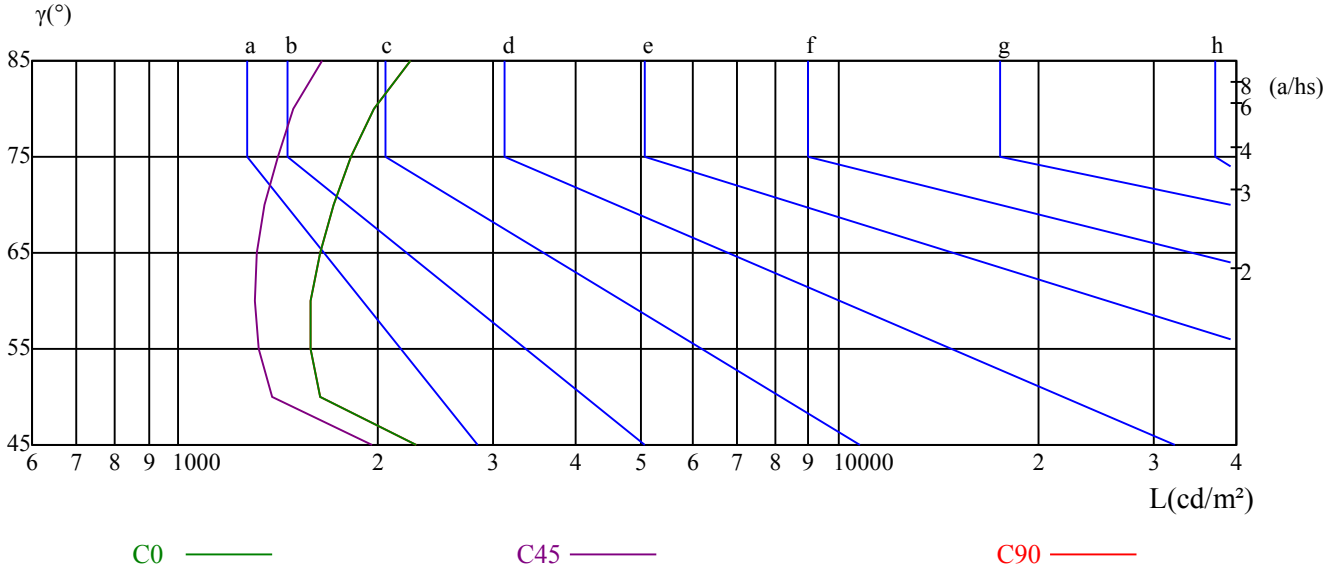
γ	45	50	55	60	65	70	75	80	85
C0	2286	1637	1586	1589	1634	1712	1828	1980	2248
C45	1966	1387	1323	1304	1317	1354	1414	1494	1647
C90	2286	1637	1586	1589	1634	1712	1828	1980	2248

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3896	3896	3896	6233	6233	6233	18839	18839	18839

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

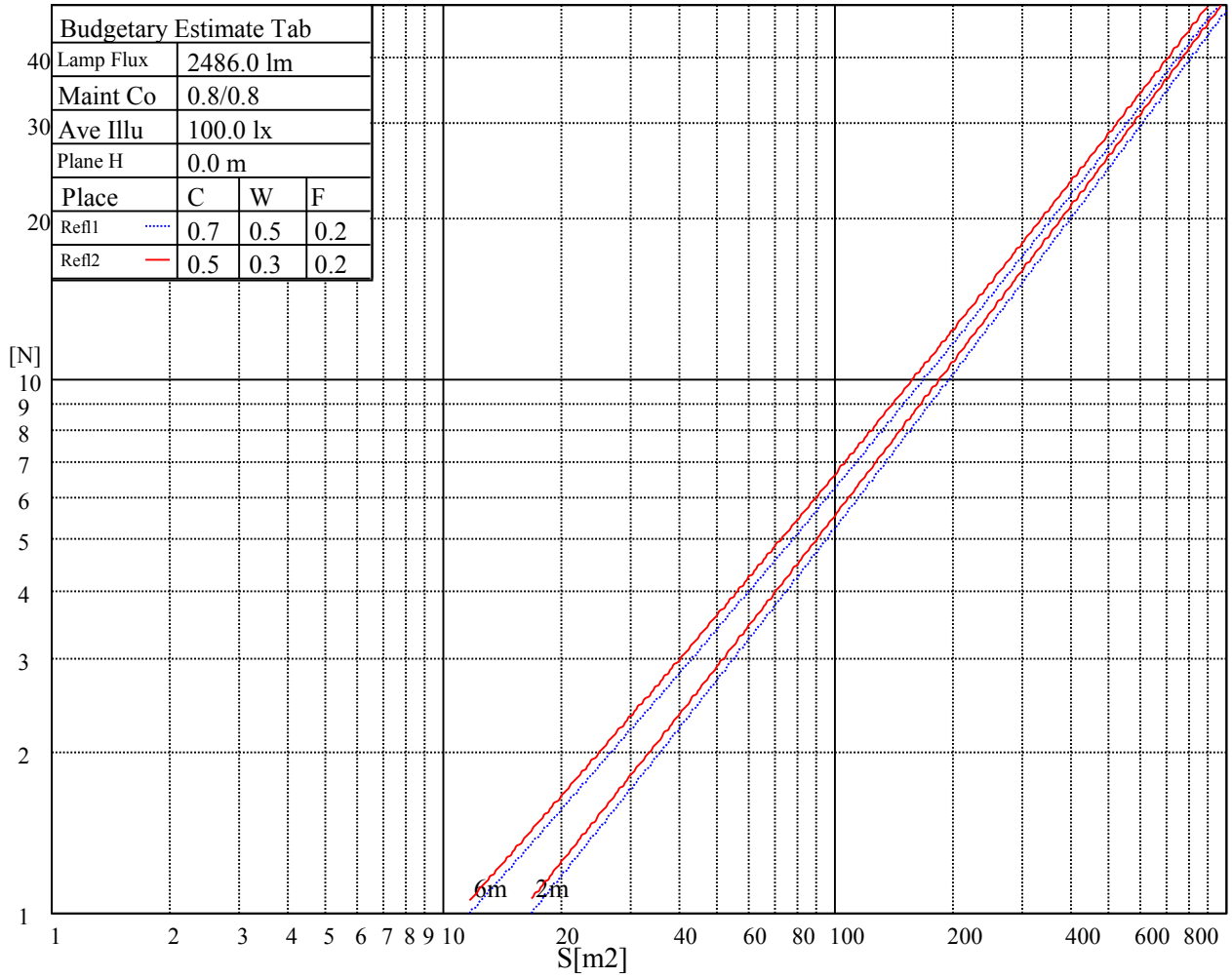


UGR Glare

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	-0.14	0.77	0.22	1.08	1.40	-0.19	0.72	0.18	1.03	1.35
	3H	2.17	2.97	2.55	3.30	3.67	2.14	2.95	2.53	3.28	3.65
	4H	3.43	4.18	3.84	4.53	4.92	3.42	4.16	3.83	4.52	4.91
	6H	4.77	5.45	5.19	5.83	6.23	4.76	5.45	5.18	5.82	6.22
	8H	5.46	6.09	5.89	6.49	6.90	5.44	6.08	5.88	6.47	6.88
	12H	6.53	7.14	6.96	7.52	7.95	6.49	7.10	6.92	7.48	7.91
4H	2H	0.35	1.10	0.76	1.45	1.84	0.32	1.06	0.72	1.42	1.81
	3H	2.96	3.57	3.37	3.98	4.39	2.94	3.55	3.36	3.96	4.37
	4H	4.40	4.95	4.84	5.37	5.82	4.39	4.94	4.83	5.36	5.81
	6H	5.83	6.30	6.31	6.75	7.23	5.83	6.30	6.30	6.75	7.22
	8H	6.63	7.07	7.11	7.52	8.00	6.62	7.06	7.10	7.51	7.98
	12H	7.70	8.07	8.19	8.56	9.04	7.66	8.04	8.15	8.53	9.00
8H	4H	4.84	5.28	5.32	5.73	6.21	4.83	5.27	5.31	5.72	6.20
	6H	6.52	6.86	7.03	7.37	7.85	6.52	6.86	7.03	7.37	7.85
	8H	7.48	7.78	8.01	8.30	8.80	7.47	7.77	8.00	8.29	8.79
	12H	8.67	8.93	9.20	9.43	10.01	8.64	8.90	9.16	9.40	9.98
12H	4H	4.94	5.31	5.43	5.80	6.28	4.93	5.30	5.42	5.79	6.27
	6H	6.90	7.00	7.23	7.47	8.02	6.89	7.00	7.23	7.47	8.02
	8H	7.75	8.01	8.28	8.51	9.09	7.74	8.00	8.27	8.50	9.08

Variation with the observer position at spacings:		
S = 1.0H	5.7/-8.2	5.7/-8.2
S = 1.5H	8.1/-6.5	8.1/-6.5
S = 2.0H	9.8/-5.2	9.8/-5.2
Standard tables:	BK1	BK1
Uncorrected UGR	-3.1	-3.1

Budgetary Estimate Table

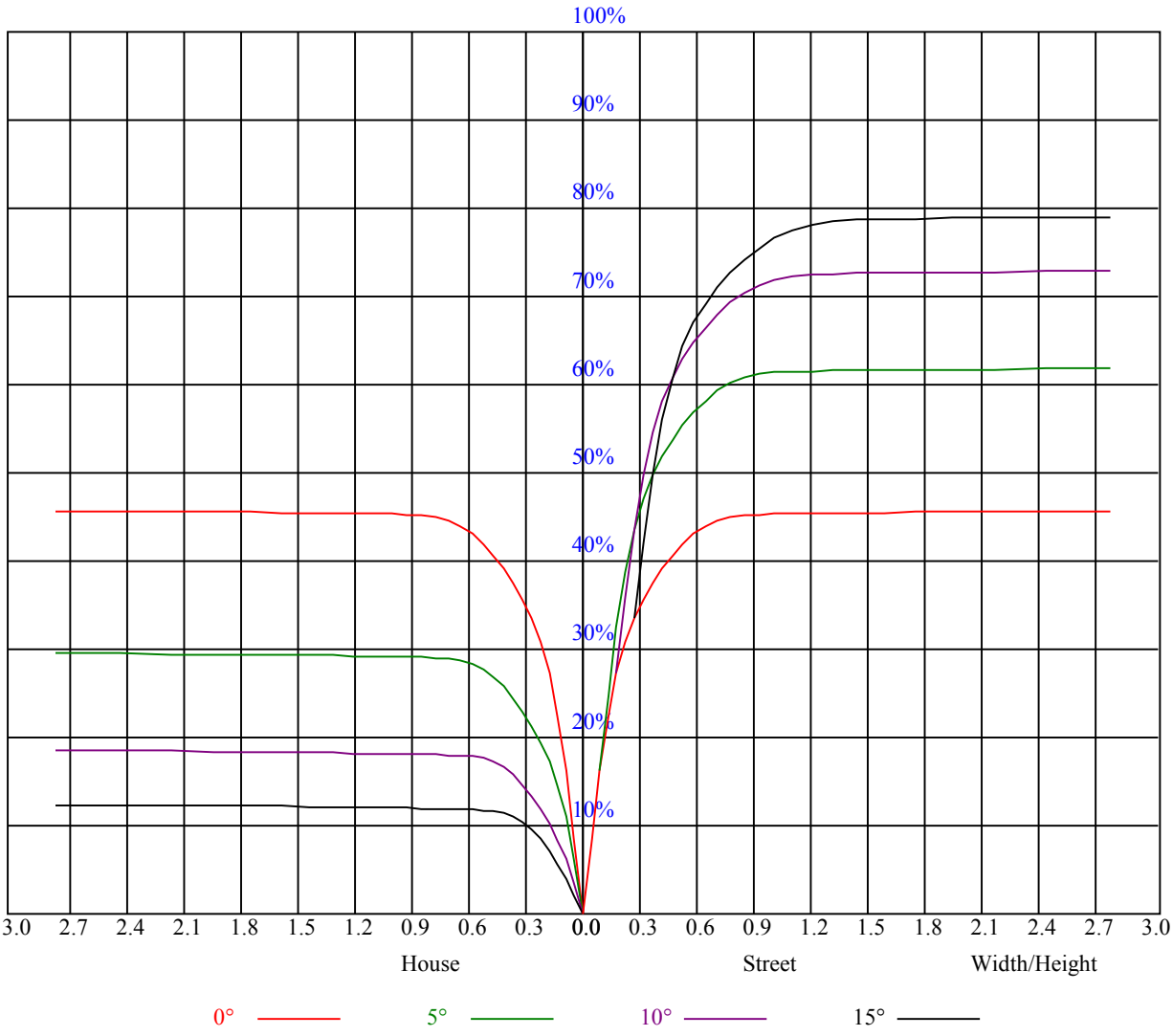


Equipment: GMS1980 Date: 2018/8/28 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.42

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	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88
2	0.98	0.95	0.92	0.96	0.93	0.91	0.93	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.85	0.84
3	0.93	0.89	0.87	0.92	0.89	0.86	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.84	0.82	0.81
4	0.89	0.85	0.82	0.88	0.84	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.83	0.81	0.79	0.78
5	0.85	0.81	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.80	0.78	0.76	0.75
6	0.82	0.78	0.75	0.82	0.78	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	0.78	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	0.69	0.74	0.71	0.69	0.74	0.71	0.69	0.68
9	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.72	0.69	0.67	0.66
10	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.70	0.67	0.65	0.64

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2018/8/28	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.42

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	14298.15	14028.37	13450.28	12701.51	11644.43	10394.65	9045.77	7834.53	6678.34
45.0	14259.61	13780.62	12965.78	12040.83	10829.59	9480.71	8263.97	6898.57	5808.45
90.0	14110.96	13527.36	12657.47	10853.27	10568.08	9212.04	7841.13	6508.77	5443.98
135.0	14226.57	14055.90	13642.98	12943.76	12095.89	10939.71	9618.35	8412.62	7267.44
180.0	14298.15	14314.66	14132.98	13554.89	12965.78	12079.37	10871.99	9519.80	8327.28
225.0	14259.61	14479.83	14490.84	14309.16	13819.16	13130.95	12228.03	10876.39	9677.26
270.0	14110.96	14380.73	14474.33	14325.68	13907.25	13274.10	12167.46	11121.39	9943.19
315.0	14226.57	14155.00	13852.19	13246.57	12398.70	10890.16	10326.38	8853.07	7652.29
360.0	14298.15	14028.37	13450.28	12701.51	11644.43	10394.65	9045.77	7834.53	6678.34

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5345.98	4371.48	3518.10	2940.01	2299.16	1961.66	1706.20	1470.01	1332.92
45.0	4564.18	3683.27	3000.57	2791.36	2042.04	1770.61	1588.93	1384.67	1275.66
90.0	4471.68	3553.89	2867.34	2425.23	2038.74	1746.94	1554.79	1411.10	1267.95
135.0	5907.55	4911.03	4013.61	3132.71	2796.87	2245.75	1947.34	1667.11	1490.93
180.0	7139.16	5769.91	4776.69	3916.16	3129.96	2573.34	2196.75	1874.12	1646.19
225.0	8460.52	6971.79	5844.79	4825.69	3818.71	3046.27	2546.36	2133.44	1852.10
270.0	8572.28	7223.40	6072.72	4905.53	3881.48	3138.21	2780.35	2159.86	1838.33
315.0	6499.96	5148.32	4174.38	3354.04	2619.03	2207.76	1897.79	1637.93	1463.95
360.0	5345.98	4371.48	3518.10	2940.01	2299.16	1961.66	1706.20	1470.01	1332.92

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1227.76	1135.81	1087.91	1035.61	998.72	964.04	938.71	917.24	897.97
45.0	1185.36	1112.69	1057.08	1016.89	978.90	949.72	928.80	912.84	893.57
90.0	1183.71	1093.64	1055.49	1010.56	975.49	946.03	922.53	906.56	886.52
135.0	1349.98	1235.47	1146.27	1084.61	1039.46	996.52	964.59	938.16	916.69
180.0	1447.98	1305.39	1210.14	1094.41	1059.84	1019.48	979.84	943.01	916.52
225.0	1616.46	1437.52	1308.69	1197.48	1098.60	1057.85	1014.19	965.30	941.63
270.0	1605.44	1447.98	1319.70	1191.42	1118.75	1064.79	1011.94	973.40	948.07
315.0	1315.30	1205.74	1094.41	1070.46	1013.20	980.39	954.51	924.56	908.27
360.0	1227.76	1135.81	1087.91	1035.61	998.72	964.04	938.71	917.24	897.97

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	878.15	858.33	840.16	817.59	757.03	694.81	622.14	521.38	436.60
45.0	869.89	847.32	825.30	783.45	700.32	624.34	540.10	462.47	366.13
90.0	865.76	843.08	819.95	770.90	706.10	613.49	537.52	461.15	365.35
135.0	896.87	875.95	854.48	839.61	801.62	743.81	681.60	579.74	502.66
180.0	897.58	874.57	855.03	836.69	812.58	781.42	730.16	645.21	577.54
225.0	918.40	893.12	871.76	849.74	828.76	804.70	771.89	706.59	636.62
270.0	921.09	902.92	884.21	863.83	842.36	823.09	777.95	717.94	637.00
315.0	887.34	866.48	842.75	822.10	795.12	736.49	659.96	577.76	500.13
360.0	878.15	858.33	840.16	817.59	757.03	694.81	622.14	521.38	436.60

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	348.51	284.64	164.23	101.80	52.47	35.57	28.02	21.86	19.16
45.0	285.19	191.87	126.63	71.63	35.07	27.97	21.36	17.73	15.09
90.0	287.28	212.13	133.84	69.48	37.00	26.98	19.71	16.57	13.71
135.0	422.28	330.89	285.74	170.29	98.28	48.61	30.50	21.14	16.79
180.0	482.40	375.48	302.26	214.66	129.22	80.99	42.06	25.33	18.83
225.0	549.68	468.97	375.65	282.33	205.42	129.49	74.33	37.82	26.65
270.0	551.11	473.49	394.20	295.65	285.19	146.23	80.11	40.91	32.04
315.0	410.01	320.65	241.70	168.42	92.71	49.72	36.28	27.86	22.13
360.0	348.51	284.64	164.23	101.80	52.47	35.57	28.02	21.86	19.16

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	14.87	12.28	12.00	11.84	11.51	11.34	11.18	11.07	10.90
45.0	12.28	11.95	11.73	11.56	11.40	11.23	11.12	11.01	10.85
90.0	12.28	12.00	11.84	11.67	11.51	11.34	11.18	11.12	10.96
135.0	14.37	12.55	12.28	12.06	11.84	11.67	11.56	11.40	11.23
180.0	15.69	13.87	12.55	12.22	12.00	11.78	11.62	11.45	11.34
225.0	19.38	16.30	14.09	12.55	12.28	12.00	11.78	11.62	11.45
270.0	25.11	19.55	17.07	12.99	12.33	12.06	11.84	11.62	11.45
315.0	18.83	13.38	12.11	11.89	11.62	11.51	11.34	11.18	11.07
360.0	14.87	12.28	12.00	11.84	11.51	11.34	11.18	11.07	10.90

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	10.85	10.74	10.68	10.57	10.52	10.46	10.41	10.35	10.30
45.0	10.79	10.74	10.63	10.52	10.52	10.41	10.35	10.30	10.30
90.0	10.85	10.79	10.63	10.63	10.57	10.46	10.46	10.41	10.35
135.0	11.12	11.01	10.90	10.79	10.68	10.68	10.63	10.57	10.52
180.0	11.18	11.01	10.90	10.85	10.74	10.68	10.57	10.52	10.46
225.0	11.23	11.12	10.96	10.85	10.74	10.63	10.57	10.46	10.41
270.0	11.29	11.12	11.01	10.90	10.79	10.68	10.63	10.52	10.46
315.0	10.90	10.79	10.74	10.63	10.57	10.52	10.41	10.41	10.35
360.0	10.85	10.74	10.68	10.57	10.52	10.46	10.41	10.35	10.30

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.30	10.24	10.24	10.19	10.19	10.19	10.19	10.13	10.13
45.0	10.24	10.24	10.19	10.19	10.13	10.13	10.13	10.08	10.08
90.0	10.30	10.24	10.24	10.24	10.24	10.19	10.19	10.19	10.13
135.0	10.46	10.41	10.41	10.35	10.35	10.30	10.30	10.24	10.24
180.0	10.41	10.35	10.35	10.30	10.30	10.24	10.24	10.19	10.19
225.0	10.30	10.30	10.24	10.19	10.13	10.08	10.08	10.02	10.02
270.0	10.41	10.35	10.30	10.24	10.24	10.19	10.19	10.13	10.13
315.0	10.35	10.30	10.24	10.24	10.24	10.19	10.19	10.13	10.13
360.0	10.30	10.24	10.24	10.19	10.19	10.19	10.19	10.13	10.13

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.13	10.13	10.13	10.08	10.08	10.08	10.02	10.02	10.02
45.0	10.08	10.02	10.02	10.02	10.02	9.97	9.97	9.97	9.97
90.0	10.13	10.08	10.08	10.08	10.02	10.02	10.02	10.02	10.02
135.0	10.24	10.19	10.19	10.13	10.13	10.13	10.13	10.08	10.08
180.0	10.13	10.13	10.08	10.08	10.08	10.08	10.02	10.02	10.02
225.0	10.02	10.02	9.97	9.97	9.97	9.97	9.91	9.97	9.91
270.0	10.08	10.08	10.08	10.08	10.08	10.02	10.02	10.02	9.97
315.0	10.13	10.13	10.08	10.13	10.08	10.08	10.08	10.02	10.02
360.0	10.13	10.13	10.13	10.08	10.08	10.08	10.02	10.02	10.02

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.02	10.02	10.02	10.02	10.08	9.91	9.86	9.86	9.86
45.0	9.91	9.91	9.91	9.97	10.02	9.91	9.80	9.80	9.80
90.0	10.02	10.08	10.24	10.52	10.74	10.63	9.86	9.86	9.86
135.0	10.13	10.63	10.46	10.74	11.07	11.18	9.91	9.86	9.86
180.0	9.97	9.97	10.02	10.13	10.13	10.08	9.86	9.86	9.86
225.0	9.91	9.91	9.86	9.86	9.86	9.80	9.80	9.80	9.80
270.0	9.97	9.97	9.97	9.97	9.97	9.97	10.08	9.86	9.86
315.0	9.97	10.02	9.97	10.08	10.13	10.19	9.97	9.86	9.86
360.0	10.02	10.02	10.02	10.02	10.08	9.91	9.86	9.86	9.86

Intensity data(cd)

C/γ(°)	90.0
0.0	9.86
45.0	9.80
90.0	9.86
135.0	9.86
180.0	9.86
225.0	9.74
270.0	9.86
315.0	9.86
360.0	9.86