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: LN01D05015DA-N
Luminaire: 97.70.234.00
Report No: 200805-B001
Test No: 200805-C001
LampCAT: CREE CXA1304 LES6
Lamp flux(lm): 502.6
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 36.9500
Current(A): 0.1490
Power (W): 5.5050
PF: 0.0000
Ballast type: DC
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 446.95
Efficiency(%): 88.92%
Lumens(lm)/Power(W): 81.19
Central intensity(cd): 4619.531
Maximum intensity(cd): 4619.531
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=15.2
[C90/270]Total=15.2
Field angle(10%Imax): [C0/180]Total=28.2
[C90/270]Total=28.2
Maximum s/h(1/2): C0_180=0.26 C90_270=0.26
Maximum s/h(1/4): C0_180=0.26 C90_270=0.26
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 88.92%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.923%

Nata LM01D05015DA

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4619.531	0.000	0	.000%	.000%
1.0	4577.836	4.401	4.401	.876%	.985%
2.0	4417.383	12.911	17.312	2.569%	3.873%
3.0	4153.852	20.500	37.811	4.079%	8.460%
4.0	3839.695	26.757	64.568	5.323%	14.446%
5.0	3448.758	31.355	95.923	6.238%	21.462%
6.0	2986.172	33.817	129.74	6.728%	29.028%
7.0	2558.813	34.418	164.158	6.848%	36.729%
8.0	2146.078	33.672	197.83	6.699%	44.262%
9.0	1722.656	31.354	229.184	6.238%	51.278%
10.0	1323.682	27.568	256.752	5.485%	57.446%
11.0	1048.880	23.707	280.459	4.717%	62.750%
12.0	827.030	20.506	300.965	4.080%	67.338%
13.0	620.543	17.179	318.144	3.418%	71.182%
14.0	471.340	13.976	332.12	2.781%	74.309%
15.0	358.446	11.392	343.512	2.266%	76.857%
16.0	287.592	9.466	352.978	1.883%	78.975%
17.0	217.216	7.861	360.839	1.564%	80.734%
18.0	169.720	6.380	367.219	1.269%	82.162%
19.0	140.337	5.394	372.613	1.073%	83.369%
20.0	115.151	4.676	377.289	.930%	84.415%
21.0	95.745	4.050	381.339	.806%	85.321%
22.0	82.948	3.591	384.93	.714%	86.124%
23.0	71.754	3.246	388.176	.646%	86.851%
24.0	62.079	2.926	391.102	.582%	87.505%
25.0	55.252	2.668	393.77	.531%	88.102%
26.0	49.113	2.464	396.233	.490%	88.653%
27.0	43.875	2.275	398.508	.453%	89.162%
28.0	39.199	2.103	400.612	.418%	89.633%
29.0	35.290	1.949	402.56	.388%	90.069%
30.0	31.887	1.814	404.374	.361%	90.475%
31.0	28.983	1.694	406.068	.337%	90.854%
32.0	26.423	1.587	407.655	.316%	91.209%
33.0	24.321	1.495	409.15	.297%	91.543%
34.0	22.613	1.420	410.571	.283%	91.861%
35.0	20.918	1.352	411.923	.269%	92.164%
36.0	19.596	1.290	413.213	.257%	92.452%
37.0	18.492	1.242	414.455	.247%	92.730%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	17.409	1.198	415.653	.238%	92.998%
39.0	16.376	1.153	416.806	.229%	93.256%
40.0	15.574	1.114	417.921	.222%	93.506%
41.0	14.702	1.078	418.999	.215%	93.747%
42.0	13.802	1.036	420.034	.206%	93.979%
43.0	13.029	0.994	421.028	.198%	94.201%
44.0	12.255	0.954	421.983	.190%	94.415%
45.0	11.482	0.912	422.895	.182%	94.619%
46.0	10.772	0.870	423.765	.173%	94.813%
47.0	10.097	0.830	424.595	.165%	94.999%
48.0	9.534	0.794	425.389	.158%	95.177%
49.0	9.035	0.763	426.151	.152%	95.347%
50.0	8.557	0.733	426.885	.146%	95.511%
51.0	8.191	0.709	427.593	.141%	95.670%
52.0	7.861	0.689	428.282	.137%	95.824%
53.0	7.530	0.670	428.952	.133%	95.974%
54.0	7.228	0.650	429.602	.129%	96.119%
55.0	6.982	0.634	430.237	.126%	96.261%
56.0	6.736	0.620	430.856	.123%	96.400%
57.0	6.476	0.604	431.461	.120%	96.535%
58.0	6.293	0.590	432.051	.117%	96.667%
59.0	6.061	0.578	432.629	.115%	96.796%
60.0	5.864	0.563	433.192	.112%	96.923%
61.0	5.674	0.551	433.743	.110%	97.046%
62.0	5.498	0.538	434.281	.107%	97.166%
63.0	5.344	0.527	434.808	.105%	97.284%
64.0	5.175	0.516	435.324	.103%	97.400%
65.0	5.020	0.505	435.829	.100%	97.513%
66.0	4.873	0.494	436.323	.098%	97.623%
67.0	4.746	0.484	436.806	.096%	97.731%
68.0	4.620	0.474	437.281	.094%	97.837%
69.0	4.507	0.466	437.746	.093%	97.942%
70.0	4.395	0.457	438.203	.091%	98.044%
71.0	4.289	0.449	438.652	.089%	98.144%
72.0	4.324	0.448	439.1	.089%	98.244%
73.0	4.430	0.458	439.558	.091%	98.347%
74.0	4.711	0.481	440.038	.096%	98.454%
75.0	5.091	0.518	440.556	.103%	98.570%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.435	0.559	441.115	.111%	98.695%
77.0	5.681	0.593	441.708	.118%	98.828%
78.0	5.773	0.613	442.321	.122%	98.965%
79.0	5.611	0.612	442.932	.122%	99.102%
80.0	5.273	0.587	443.519	.117%	99.233%
81.0	4.746	0.542	444.061	.108%	99.354%
82.0	4.141	0.482	444.543	.096%	99.462%
83.0	3.502	0.415	444.959	.083%	99.555%
84.0	3.073	0.358	445.317	.071%	99.635%
85.0	2.742	0.317	445.634	.063%	99.706%
86.0	2.595	0.292	445.926	.058%	99.772%
87.0	2.447	0.276	446.202	.055%	99.833%
88.0	2.278	0.259	446.461	.051%	99.891%
89.0	2.208	0.246	446.706	.049%	99.946%
90.0	2.173	0.240	446.947	.048%	100.000%

Zonal flux distribution table

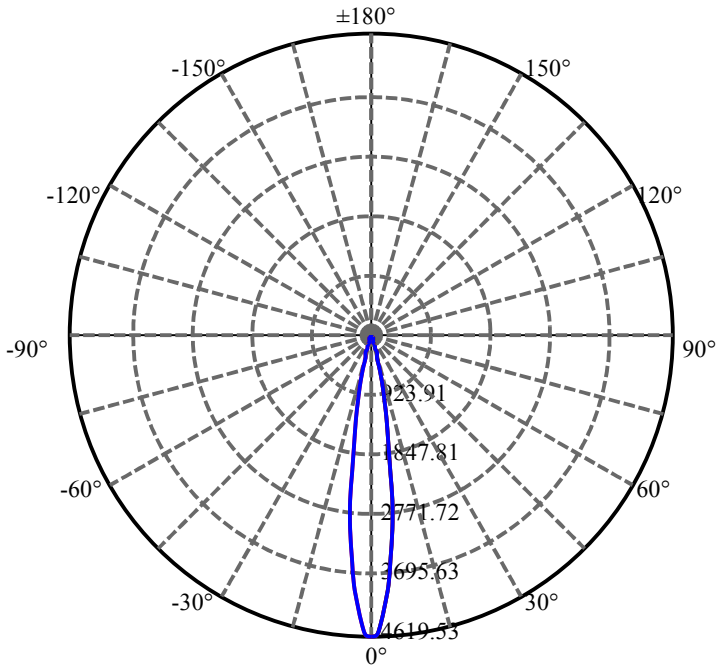
ZONAL LUMEN SUMMARY

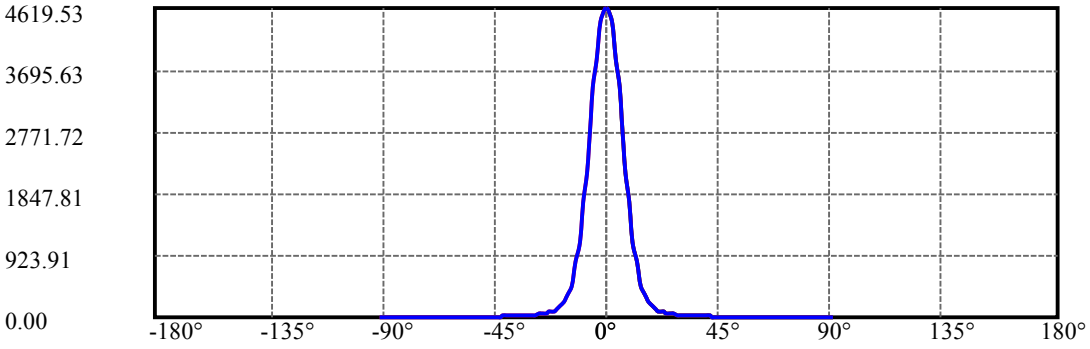
Zone	Lumens	%Lamp	%Fixt
0-30	404.37	80.45%	90.47%
0-40	417.92	83.15%	93.51%
0-60	433.19	86.19%	96.92%
0-90	446.71	88.88%	99.95%
0-120	446.71	88.88%	99.95%
0-180	446.95	88.92%	100.00%
60-90	14.08	2.80%	3.15%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-16.58	357.56	71.14%	80.00%

ZONAL LUMEN SUMMARY

0-10	256.75
10-20	120.54
20-30	27.08
30-40	13.55
40-50	8.96
50-60	6.31
60-70	5.01
70-80	5.32
80-90	3.19
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:

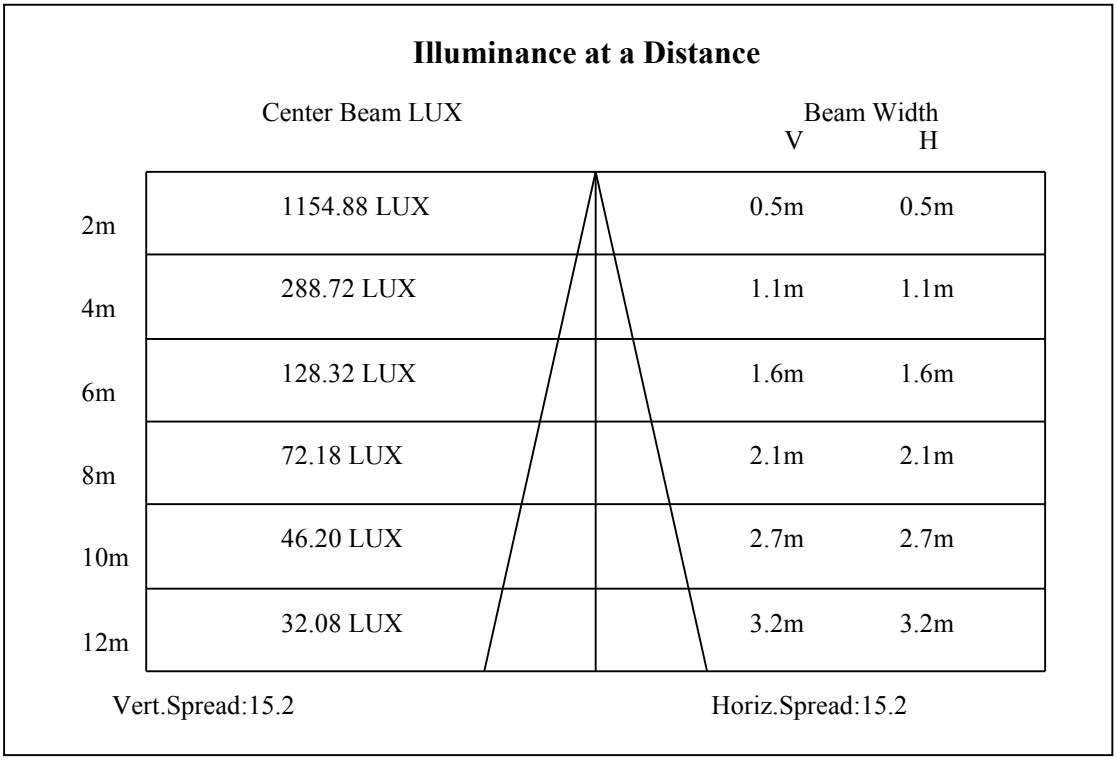
C90/C270:

Field angle(10%Imax):C0/180Left:14.1 Right:14.1
:C90/270Left:14.1 Right:14.1

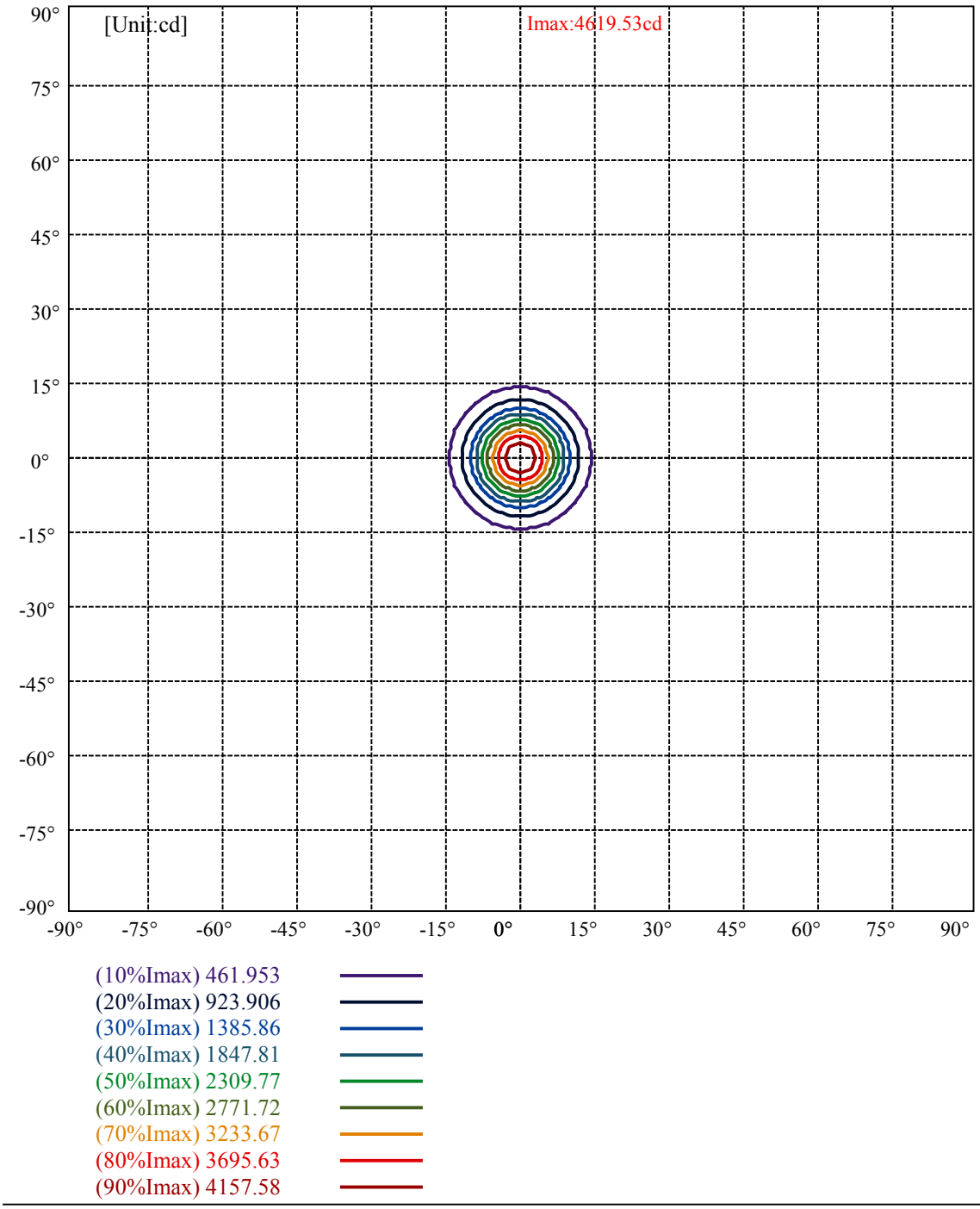
Beam Angle(50%Imax):C0/180Left:7.6 Right:7.6
:C90/270Left:7.6 Right:7.6

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

Lux distance Curve



ISO-Intensity(V-H)

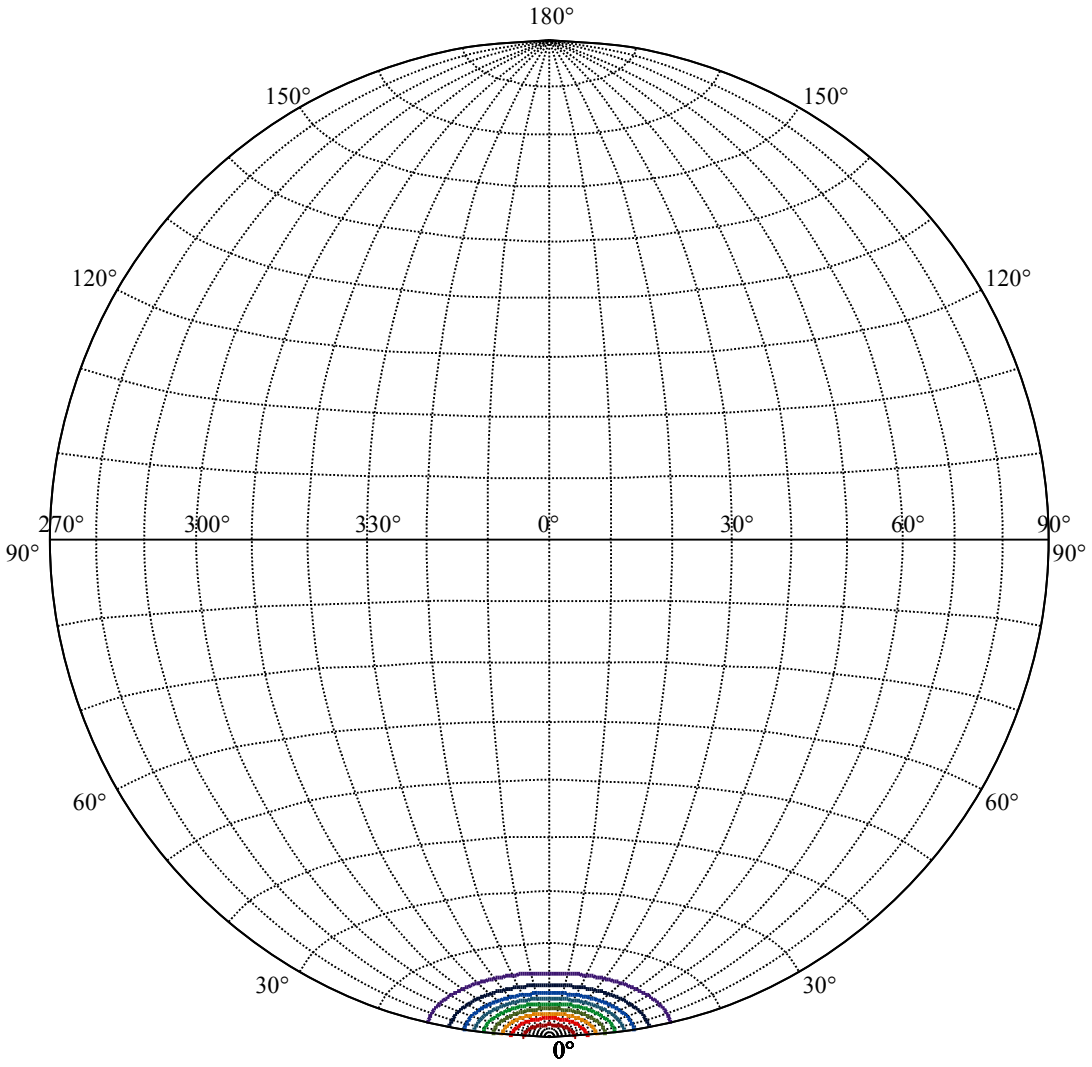


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:4619.53

(10%Imax) 461.953
(20%Imax) 923.906
(30%Imax) 1385.86
(40%Imax) 1847.81
(50%Imax) 2309.77
(60%Imax) 2771.72
(70%Imax) 3233.67
(80%Imax) 3695.63
(90%Imax) 4157.58

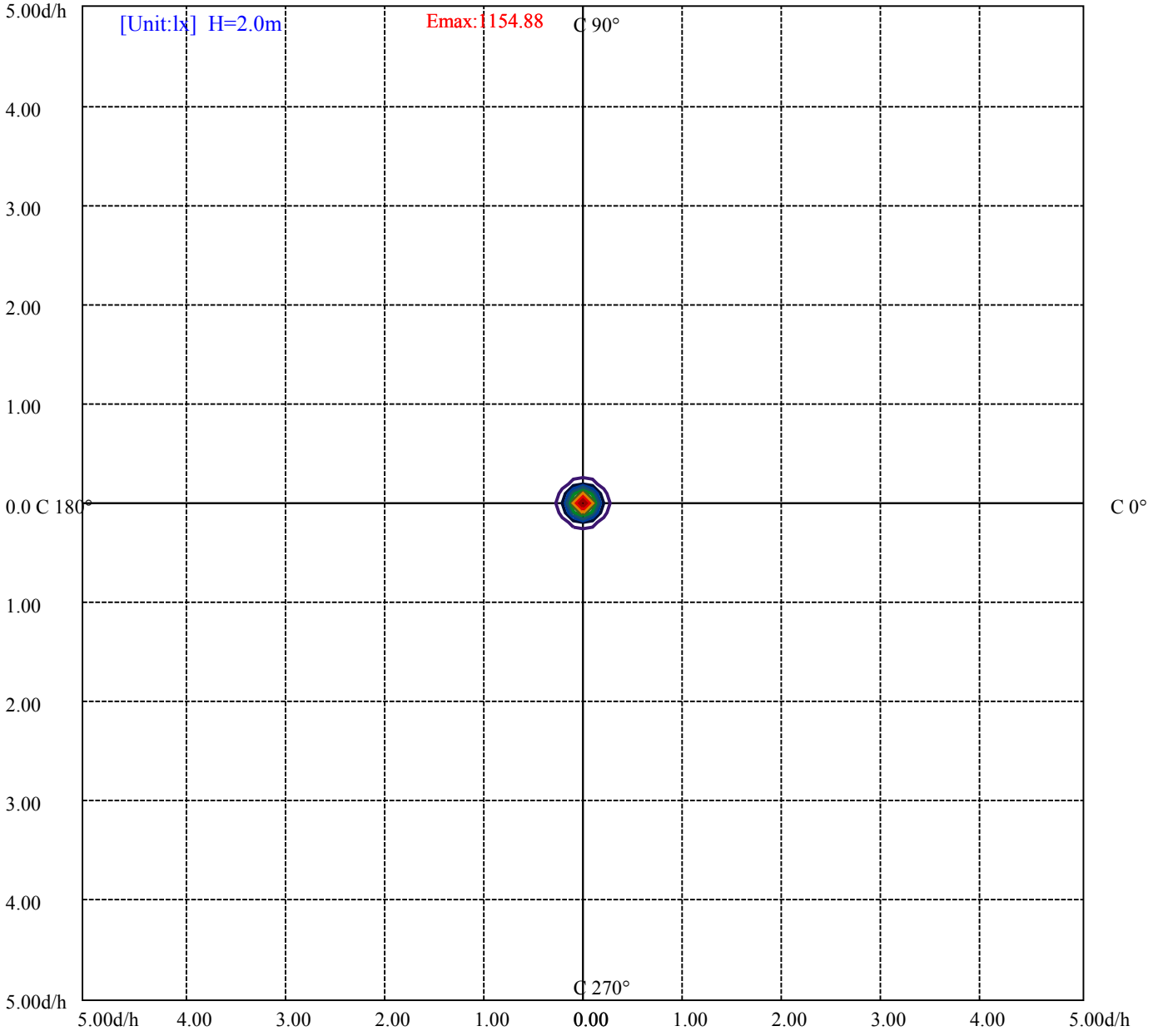
Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.50

Nata LM01D05015DA

ISO illuminance diagram



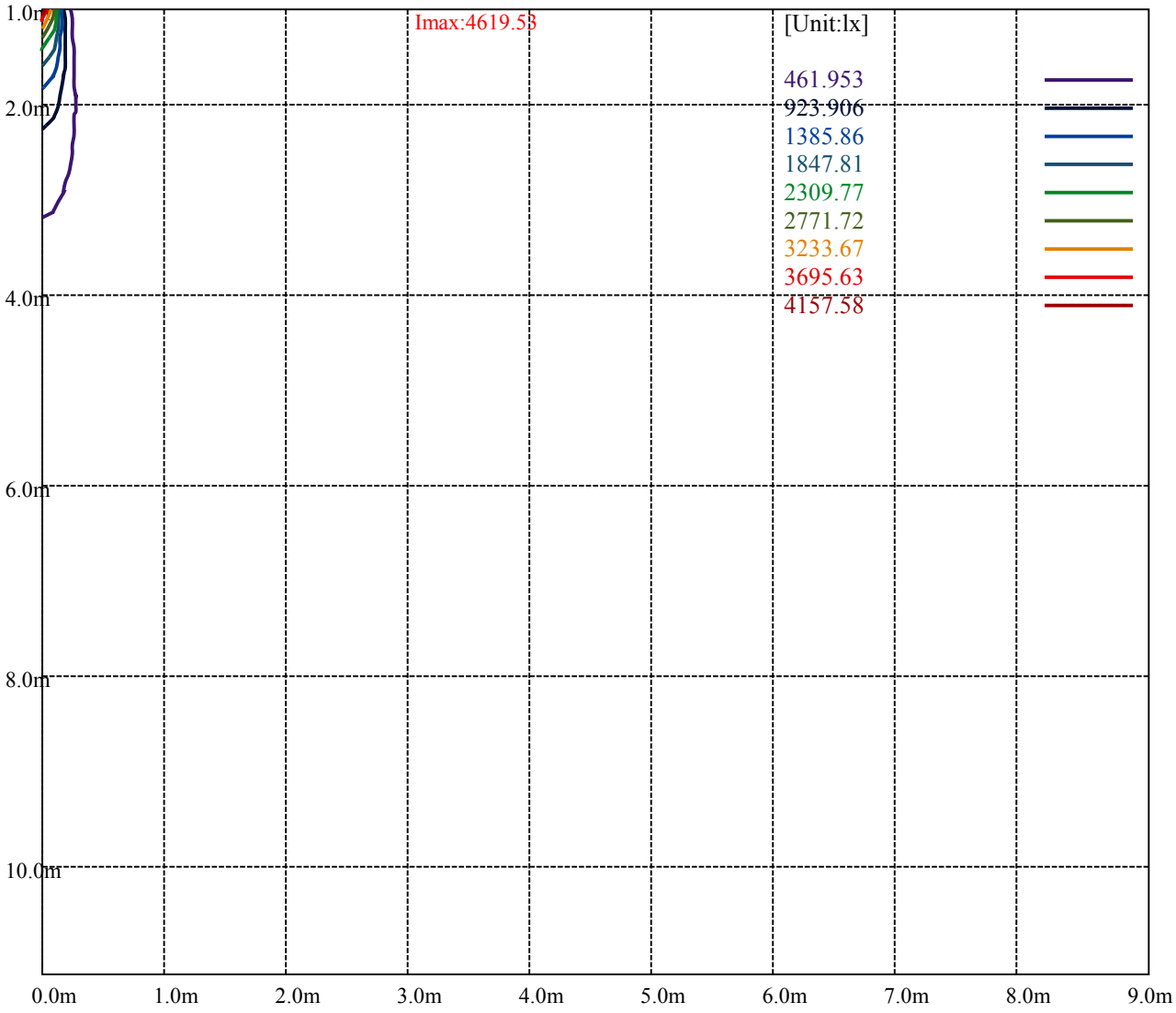
(10%Emax) 115.488
(20%Emax) 230.9763
(30%Emax) 346.465
(40%Emax) 461.9525
(50%Emax) 577.44
(60%Emax) 692.9275
(70%Emax) 808.4175
(80%Emax) 923.905
(90%Emax) 1039.392

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 LM01D05015DA

Luminance Limitting Curve(no luminous side)

Luminance Table

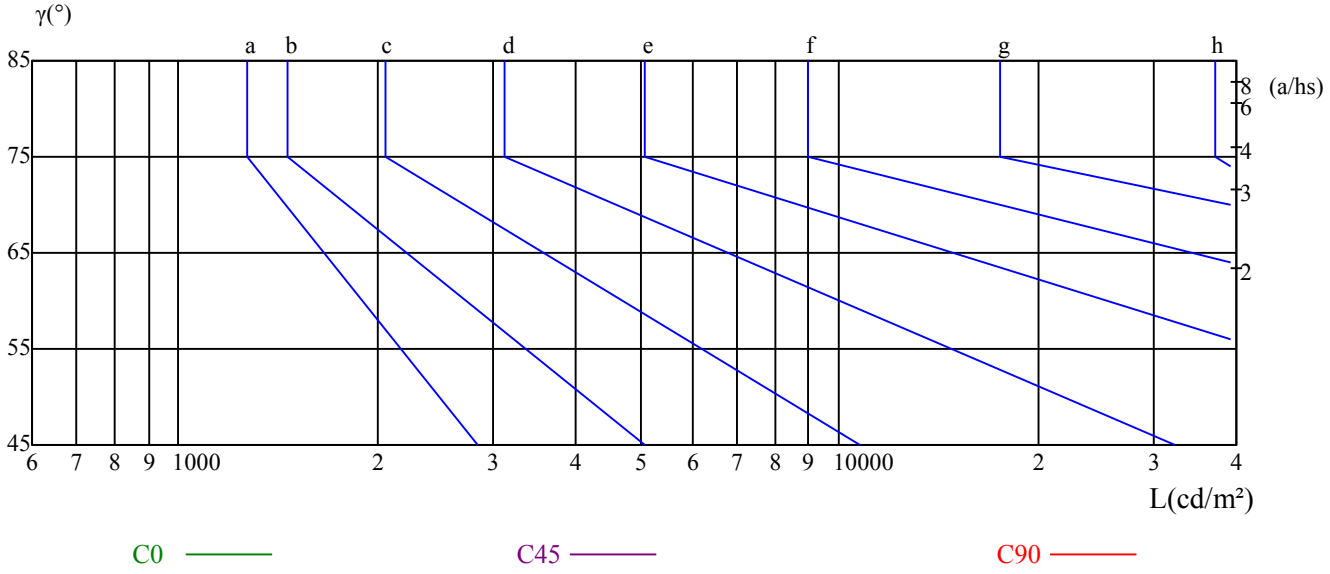
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

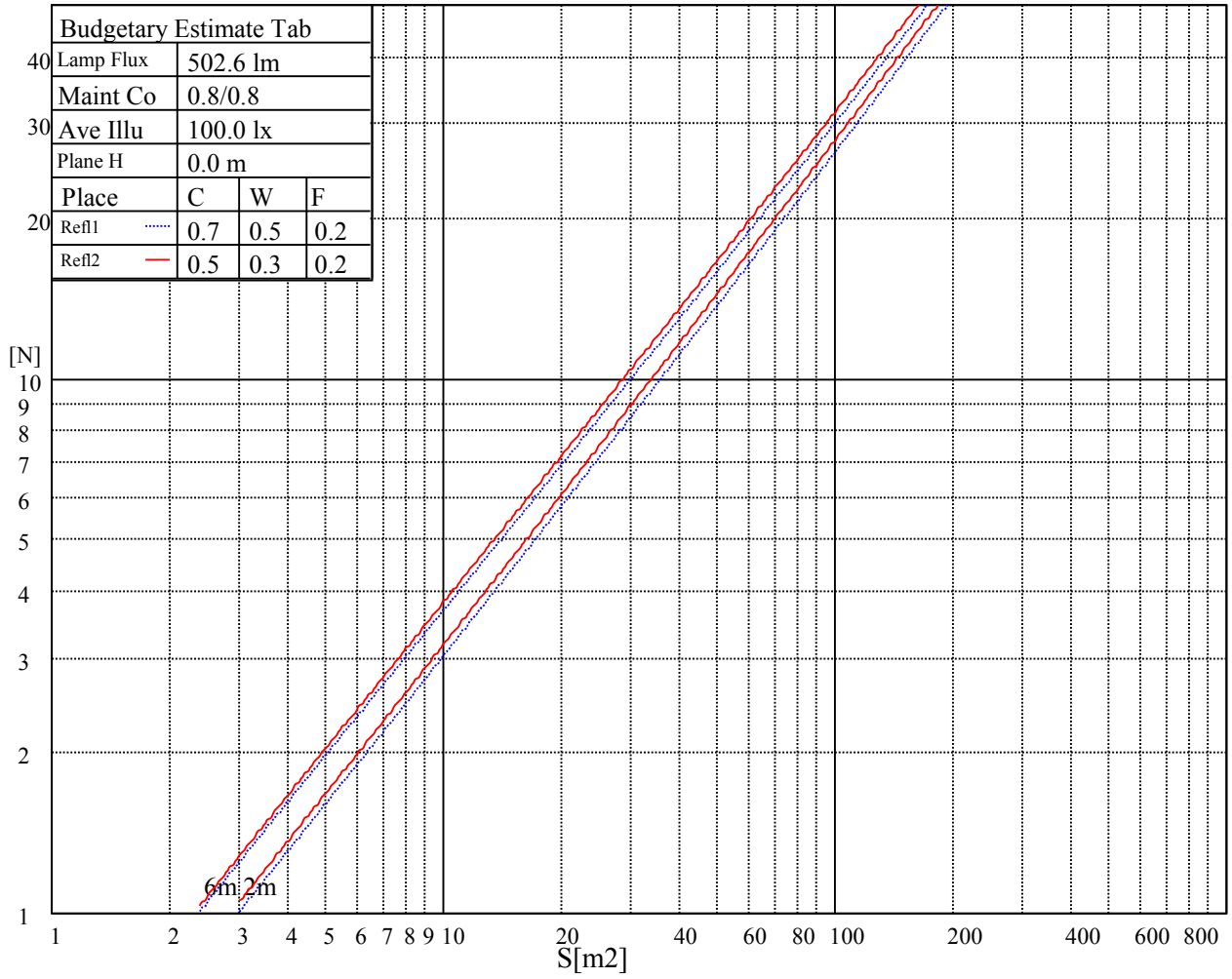
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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

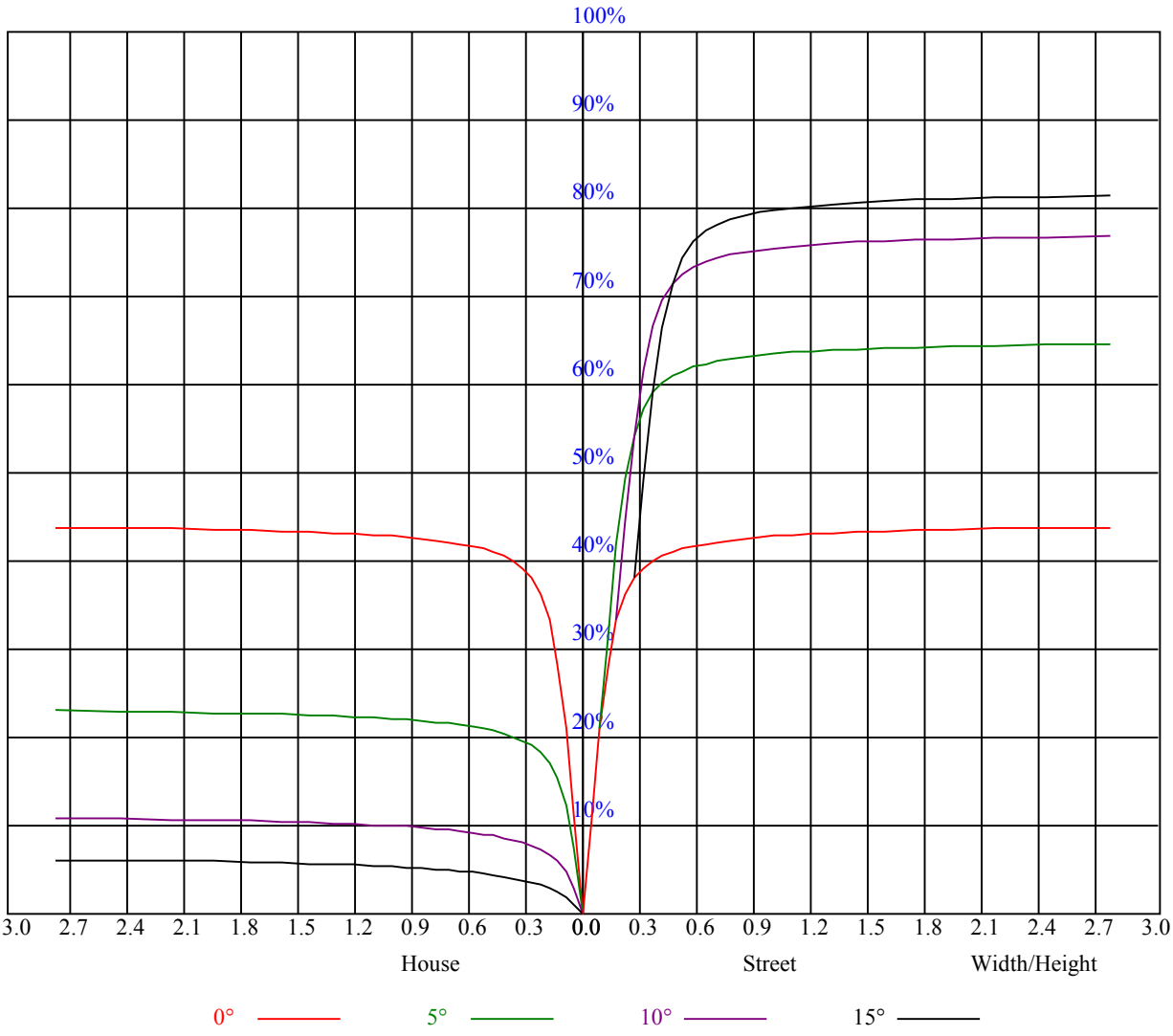


Equipment: GMS1980 Date: 2020/8/05 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.06	1.06	1.06	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	1.00	0.98	0.97	0.98	0.97	0.95	0.95	0.93	0.92	0.91	0.90	0.90	0.88	0.88	0.87	0.86
2	0.96	0.93	0.91	0.94	0.92	0.90	0.91	0.89	0.88	0.89	0.87	0.86	0.86	0.85	0.84	0.83
3	0.92	0.89	0.86	0.91	0.88	0.86	0.89	0.86	0.84	0.87	0.85	0.83	0.85	0.83	0.82	0.81
4	0.89	0.85	0.83	0.88	0.85	0.82	0.86	0.84	0.82	0.85	0.82	0.81	0.83	0.81	0.80	0.79
5	0.86	0.83	0.80	0.85	0.82	0.80	0.84	0.81	0.79	0.83	0.80	0.79	0.82	0.80	0.78	0.77
6	0.84	0.81	0.78	0.83	0.80	0.78	0.82	0.79	0.77	0.81	0.79	0.77	0.80	0.78	0.76	0.76
7	0.82	0.79	0.76	0.81	0.78	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.79	0.77	0.75	0.74
8	0.80	0.77	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.78	0.76	0.74	0.78	0.75	0.74	0.73
9	0.79	0.75	0.73	0.78	0.75	0.73	0.78	0.75	0.73	0.77	0.75	0.73	0.76	0.74	0.73	0.72
10	0.77	0.74	0.72	0.77	0.74	0.72	0.76	0.74	0.72	0.76	0.73	0.72	0.75	0.73	0.71	0.71

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	4650.75	4613.63	4466.25	4188.38	3867.19	3540.94	2983.50	2577.38	2180.25
45.0	4625.44	4528.13	4228.31	3909.94	3594.94	3049.88	2639.81	2282.06	1805.63
90.0	4581.56	4444.88	4181.63	3835.13	3470.06	3072.38	2560.50	2149.88	1770.75
135.0	4620.38	4592.81	4434.19	4196.25	3852.00	3484.69	3034.13	2566.69	2167.31
180.0	4650.75	4591.69	4442.06	4159.69	3804.75	3421.69	2962.69	2494.13	2091.38
225.0	4625.44	4659.19	4602.38	4421.25	4175.44	3806.44	3423.38	2972.25	2517.19
270.0	4581.56	4623.75	4567.50	4416.75	4169.81	3814.88	3390.75	2936.25	2535.75
315.0	4620.38	4568.63	4416.75	4103.44	3783.38	3399.19	2894.63	2491.88	2100.38
360.0	4650.75	4613.63	4466.25	4188.38	3867.19	3540.94	2983.50	2577.38	2180.25

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1718.44	1386.56	1100.25	830.25	615.38	471.94	351.56	290.25	206.49
45.0	1429.88	1170.00	858.94	666.56	516.94	378.56	299.81	254.19	183.71
90.0	1270.13	1058.34	824.63	617.96	465.02	361.52	275.79	220.39	173.70
135.0	1749.38	1365.19	1068.75	825.19	594.00	457.31	352.13	291.94	203.29
180.0	1716.75	1121.12	1022.74	794.42	593.89	442.86	342.68	268.59	201.32
225.0	2113.88	1698.75	1117.13	1050.58	816.75	612.23	461.19	359.66	283.73
270.0	2095.88	1688.63	1364.06	1081.13	788.63	606.94	466.88	360.56	289.69
315.0	1686.94	1100.87	1034.55	750.15	573.75	439.37	317.53	255.15	195.81
360.0	1718.44	1386.56	1100.25	830.25	615.38	471.94	351.56	290.25	206.49

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	162.56	134.16	110.14	91.69	78.92	69.13	59.01	52.43	46.74
45.0	150.41	126.90	103.05	88.93	78.02	66.54	58.67	52.48	46.52
90.0	139.61	117.11	100.01	83.64	73.52	65.03	56.59	50.79	45.96
135.0	165.88	135.84	109.63	92.76	79.76	68.23	59.34	52.65	46.24
180.0	162.56	133.14	108.28	90.00	77.79	66.83	58.22	52.09	46.07
225.0	216.11	176.40	146.08	117.45	100.41	86.74	74.70	64.97	57.88
270.0	209.64	171.00	136.07	114.98	99.06	84.88	73.80	65.70	57.83
315.0	150.98	128.14	107.94	86.51	76.11	66.66	56.31	50.91	45.68
360.0	162.56	134.16	110.14	91.69	78.92	69.13	59.01	52.43	46.74

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	41.40	36.96	33.41	30.09	27.28	25.09	23.12	21.66	20.19
45.0	41.23	37.46	33.58	30.49	27.73	25.48	23.74	21.88	20.42
90.0	41.12	36.84	33.41	30.15	27.68	25.31	23.29	21.77	20.25
135.0	41.91	37.24	33.24	30.26	27.17	24.92	22.95	21.49	19.74
180.0	41.40	36.96	33.08	29.98	27.45	24.75	23.06	21.54	19.97
225.0	51.30	45.51	41.06	36.73	33.36	30.26	27.51	25.43	23.51
270.0	51.98	46.41	41.63	37.74	34.09	30.83	28.24	26.04	23.68
315.0	40.67	36.23	32.91	29.64	27.11	24.75	22.67	21.09	19.58
360.0	41.40	36.96	33.41	30.09	27.28	25.09	23.12	21.66	20.19

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	18.96	18.00	17.10	16.20	15.41	14.63	13.78	13.05	12.38
45.0	19.29	18.17	17.04	16.03	15.24	14.29	13.28	12.43	11.59
90.0	18.90	17.89	16.88	15.75	14.91	14.12	13.05	12.26	11.48
135.0	18.79	17.89	16.82	15.92	15.36	14.40	13.56	12.94	12.15
180.0	18.90	17.94	16.93	16.09	15.36	14.51	13.78	13.05	12.26
225.0	21.54	20.14	18.96	17.72	16.71	15.75	14.79	13.89	13.11
270.0	21.99	20.48	18.96	17.72	16.71	15.75	14.79	13.95	13.11
315.0	18.39	17.44	16.59	15.58	14.91	14.18	13.39	12.66	11.98
360.0	18.96	18.00	17.10	16.20	15.41	14.63	13.78	13.05	12.38

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	11.59	10.91	10.29	9.73	9.28	8.78	8.38	8.10	7.76
45.0	10.86	10.18	9.51	9.06	8.61	8.21	7.88	7.59	7.26
90.0	10.58	9.96	9.39	8.83	8.44	8.04	7.65	7.43	7.14
135.0	11.48	10.80	10.07	9.56	9.11	8.61	8.33	7.93	7.59
180.0	11.53	10.80	10.13	9.62	9.17	8.66	8.27	7.99	7.59
225.0	12.21	11.48	10.69	9.96	9.34	8.83	8.44	7.99	7.71
270.0	12.32	11.48	10.69	10.07	9.39	8.83	8.44	8.04	7.65
315.0	11.31	10.58	10.01	9.45	8.94	8.49	8.16	7.82	7.54
360.0	11.59	10.91	10.29	9.73	9.28	8.78	8.38	8.10	7.76

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	7.43	7.14	6.92	6.64	6.41	6.19	5.96	5.74	5.57
45.0	6.98	6.75	6.53	6.30	6.13	5.91	5.68	5.51	5.34
90.0	6.81	6.58	6.41	6.08	5.96	5.74	5.57	5.40	5.29
135.0	7.31	7.09	6.81	6.58	6.41	6.13	5.96	5.79	5.57
180.0	7.37	7.09	6.86	6.64	6.41	6.19	6.02	5.85	5.63
225.0	7.37	7.14	6.86	6.64	6.41	6.19	6.02	5.79	5.63
270.0	7.31	7.09	6.81	6.53	6.36	6.13	5.91	5.74	5.57
315.0	7.26	6.98	6.69	6.41	6.24	6.02	5.79	5.57	5.40
360.0	7.43	7.14	6.92	6.64	6.41	6.19	5.96	5.74	5.57

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	5.40	5.23	5.06	4.89	4.78	4.61	4.50	4.39	4.22
45.0	5.23	5.06	4.89	4.78	4.61	4.50	4.44	4.33	4.22
90.0	5.12	4.95	4.84	4.67	4.61	4.50	4.39	4.28	4.33
135.0	5.40	5.23	5.06	4.95	4.84	4.67	4.56	4.50	4.33
180.0	5.51	5.34	5.18	5.01	4.89	4.78	4.67	4.56	4.44
225.0	5.46	5.29	5.18	5.01	4.84	4.78	4.61	4.50	4.39
270.0	5.40	5.23	5.06	4.95	4.84	4.67	4.56	4.44	4.33
315.0	5.23	5.06	4.89	4.73	4.56	4.44	4.33	4.16	4.05
360.0	5.40	5.23	5.06	4.89	4.78	4.61	4.50	4.39	4.22

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	3.83	3.77	3.66	3.54	3.43	3.32	3.21
45.0	4.11	3.99	3.88	3.83	3.88	3.94	3.94	3.83	3.54
90.0	5.40	6.98	8.89	10.74	11.87	12.21	11.81	10.41	8.83
135.0	4.22	4.05	3.94	3.77	3.71	3.60	3.43	3.32	3.15
180.0	4.33	4.16	4.05	3.88	3.77	3.60	3.49	3.38	3.26
225.0	4.28	4.16	4.05	3.99	3.88	3.94	4.11	4.22	4.22
270.0	4.22	4.28	5.34	7.14	9.23	11.19	12.60	13.22	12.83
315.0	3.94	3.83	3.71	3.60	3.49	3.43	3.38	3.21	3.15
360.0	4.11	3.99	3.83	3.77	3.66	3.54	3.43	3.32	3.21

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.09	2.98	2.93	2.81	2.70	2.59	2.48	2.36	2.25
45.0	3.15	2.98	2.87	2.76	2.59	2.48	2.25	2.19	2.14
90.0	6.92	5.06	3.38	2.93	2.64	2.48	2.25	2.19	2.14
135.0	3.04	2.93	2.81	2.70	2.59	2.42	2.36	2.19	2.19
180.0	3.15	3.04	2.93	2.81	2.70	2.59	2.42	2.31	2.25
225.0	3.99	3.60	3.15	2.98	2.87	2.76	2.59	2.36	2.25
270.0	11.59	9.62	7.14	4.89	3.26	2.98	2.87	2.36	2.25
315.0	3.04	2.93	2.81	2.70	2.59	2.48	2.36	2.25	2.19
360.0	3.09	2.98	2.93	2.81	2.70	2.59	2.48	2.36	2.25

Intensity data(cd)

C/γ(°)	90.0
0.0	2.19
45.0	2.14
90.0	2.14
135.0	2.14
180.0	2.19
225.0	2.25
270.0	2.19
315.0	2.14
360.0	2.19