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: 97.70.273.00
Report No: 200805-B013 Voltage(V): 35.0000
Test No: 200805-C013 Current(A): 0.1500
LampCAT: LUMILEDS LUXEON CoB 1202s LES6 Power (W): 5.2500
Lamp flux(lm): 677.3 PF: 0.0000
Number of Lamps: 1 Ballast type: DC
Length(mm): 0 Width(mm): 0
Phm Type: C Height(mm): 0

Photometric Results

Lumens(lm): 610.63
Efficiency(%): 90.15%
Lumens(lm)/Power(W): 116.31
Central intensity(cd): 5543.297
Maximum intensity(cd): 5543.297
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=16.1
[C90/270]Total=16.1
Field angle(10%Imax): [C0/180]Total=30.4
[C90/270]Total=30.4
Maximum s/h(1/2): C0_180=0.28 C90_270=0.28
Maximum s/h(1/4): C0_180=0.28 C90_270=0.28
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.15%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.368%

Nata LM01D05015DA

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5543.297	0.000	0	.000%	.000%
1.0	5494.148	5.281	5.281	.780%	.865%
2.0	5329.055	15.534	20.816	2.294%	3.409%
3.0	5039.297	24.798	45.613	3.661%	7.470%
4.0	4674.938	32.517	78.13	4.801%	12.795%
5.0	4217.273	38.254	116.384	5.648%	19.060%
6.0	3747.586	41.857	158.241	6.180%	25.914%
7.0	3244.711	43.401	201.642	6.408%	33.022%
8.0	2789.859	43.188	244.831	6.376%	40.095%
9.0	2328.328	41.480	286.311	6.124%	46.888%
10.0	1887.609	38.153	324.463	5.633%	53.136%
11.0	1508.716	33.936	358.4	5.010%	58.693%
12.0	1212.673	29.749	388.148	4.392%	63.565%
13.0	949.205	25.656	413.804	3.788%	67.767%
14.0	733.514	21.539	435.343	3.180%	71.294%
15.0	578.299	18.009	453.352	2.659%	74.243%
16.0	446.126	15.011	468.363	2.216%	76.701%
17.0	345.909	12.334	480.697	1.821%	78.721%
18.0	278.571	10.296	490.993	1.520%	80.407%
19.0	226.463	8.787	499.78	1.297%	81.846%
20.0	179.297	7.427	507.206	1.096%	83.063%
21.0	149.027	6.304	513.511	.931%	84.095%
22.0	126.527	5.537	519.048	.818%	85.002%
23.0	108.338	4.928	523.976	.728%	85.809%
24.0	93.143	4.405	528.382	.650%	86.530%
25.0	81.267	3.966	532.347	.585%	87.180%
26.0	71.726	3.611	535.959	.533%	87.771%
27.0	63.492	3.308	539.267	.488%	88.313%
28.0	56.693	3.043	542.31	.449%	88.811%
29.0	50.801	2.812	545.122	.415%	89.272%
30.0	45.865	2.610	547.732	.385%	89.699%
31.0	41.597	2.434	550.166	.359%	90.098%
32.0	37.941	2.279	552.445	.336%	90.471%
33.0	34.931	2.147	554.591	.317%	90.823%
34.0	32.470	2.040	556.631	.301%	91.157%
35.0	30.220	1.947	558.578	.287%	91.475%
36.0	28.223	1.861	560.439	.275%	91.780%
37.0	26.571	1.787	562.226	.264%	92.073%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	24.996	1.721	563.947	.254%	92.355%
39.0	23.477	1.655	565.602	.244%	92.626%
40.0	22.134	1.591	567.193	.235%	92.886%
41.0	20.883	1.532	568.724	.226%	93.137%
42.0	19.568	1.470	570.194	.217%	93.378%
43.0	18.330	1.404	571.598	.207%	93.608%
44.0	17.177	1.340	572.938	.198%	93.827%
45.0	16.066	1.278	574.216	.189%	94.036%
46.0	15.033	1.216	575.432	.180%	94.236%
47.0	14.105	1.159	576.591	.171%	94.425%
48.0	13.247	1.106	577.696	.163%	94.606%
49.0	12.495	1.057	578.754	.156%	94.779%
50.0	11.862	1.015	579.769	.150%	94.946%
51.0	11.299	0.980	580.749	.145%	95.106%
52.0	10.835	0.950	581.699	.140%	95.262%
53.0	10.385	0.923	582.622	.136%	95.413%
54.0	9.984	0.898	583.52	.133%	95.560%
55.0	9.605	0.874	584.394	.129%	95.703%
56.0	9.267	0.853	585.247	.126%	95.843%
57.0	8.923	0.832	586.079	.123%	95.979%
58.0	8.613	0.811	586.889	.120%	96.112%
59.0	8.332	0.792	587.682	.117%	96.242%
60.0	8.065	0.775	588.456	.114%	96.368%
61.0	7.791	0.757	589.213	.112%	96.492%
62.0	7.545	0.739	589.952	.109%	96.613%
63.0	7.334	0.724	590.675	.107%	96.732%
64.0	7.109	0.709	591.384	.105%	96.848%
65.0	6.905	0.694	592.078	.102%	96.962%
66.0	6.708	0.679	592.757	.100%	97.073%
67.0	6.525	0.665	593.422	.098%	97.182%
68.0	6.370	0.653	594.075	.096%	97.289%
69.0	6.384	0.651	594.726	.096%	97.395%
70.0	6.652	0.670	595.396	.099%	97.505%
71.0	7.095	0.710	596.106	.105%	97.621%
72.0	7.959	0.783	596.889	.116%	97.749%
73.0	8.810	0.877	597.766	.129%	97.893%
74.0	9.661	0.971	598.737	.143%	98.052%
75.0	10.477	1.064	599.801	.157%	98.226%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.081	1.144	600.945	.169%	98.414%
77.0	11.327	1.195	602.14	.176%	98.609%
78.0	10.983	1.194	603.334	.176%	98.805%
79.0	10.315	1.144	604.479	.169%	98.992%
80.0	9.288	1.057	605.535	.156%	99.165%
81.0	8.009	0.935	606.471	.138%	99.319%
82.0	6.645	0.795	607.265	.117%	99.449%
83.0	5.189	0.643	607.909	.095%	99.554%
84.0	4.240	0.514	608.422	.076%	99.638%
85.0	3.684	0.432	608.855	.064%	99.709%
86.0	3.488	0.392	609.247	.058%	99.773%
87.0	3.284	0.371	609.617	.055%	99.834%
88.0	3.108	0.350	609.968	.052%	99.891%
89.0	3.016	0.336	610.303	.050%	99.946%
90.0	2.974	0.328	610.632	.048%	100.000%

Zonal flux distribution table

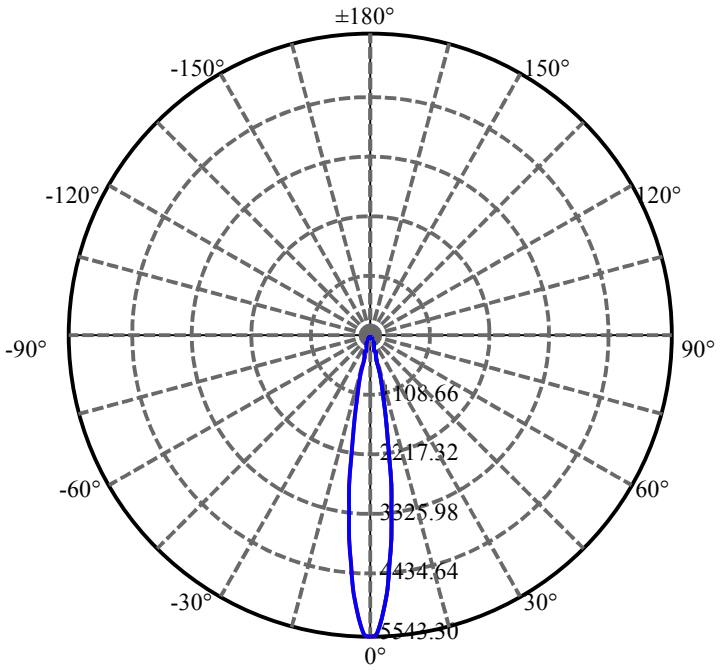
ZONAL LUMEN SUMMARY

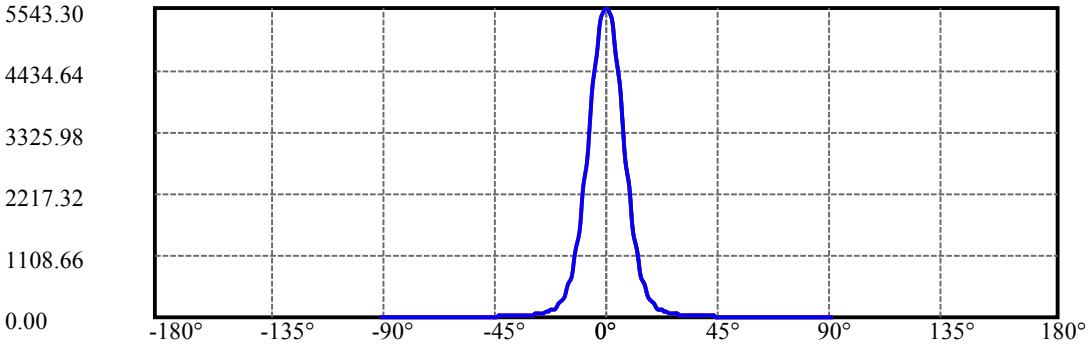
Zone	Lumens	%Lamp	%Fixt
0-30	547.73	80.87%	89.70%
0-40	567.19	83.74%	92.89%
0-60	588.46	86.88%	96.37%
0-90	610.30	90.11%	99.95%
0-120	610.30	90.11%	99.95%
0-180	610.63	90.15%	100.00%
60-90	22.62	3.34%	3.70%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-17.76	488.51	72.12%	80.00%

ZONAL LUMEN SUMMARY

0-10	324.46
10-20	182.74
20-30	40.53
30-40	19.46
40-50	12.58
50-60	8.69
60-70	6.94
70-80	10.14
80-90	4.77
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):

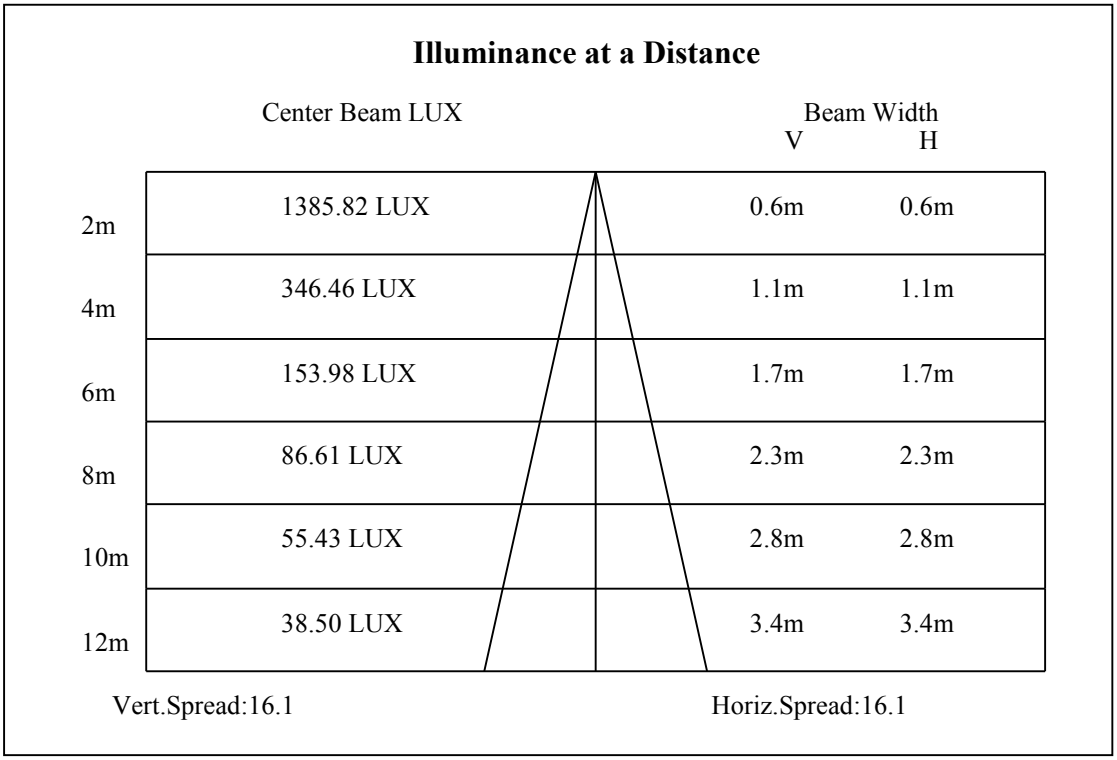
C0/C180:

C90/C270:

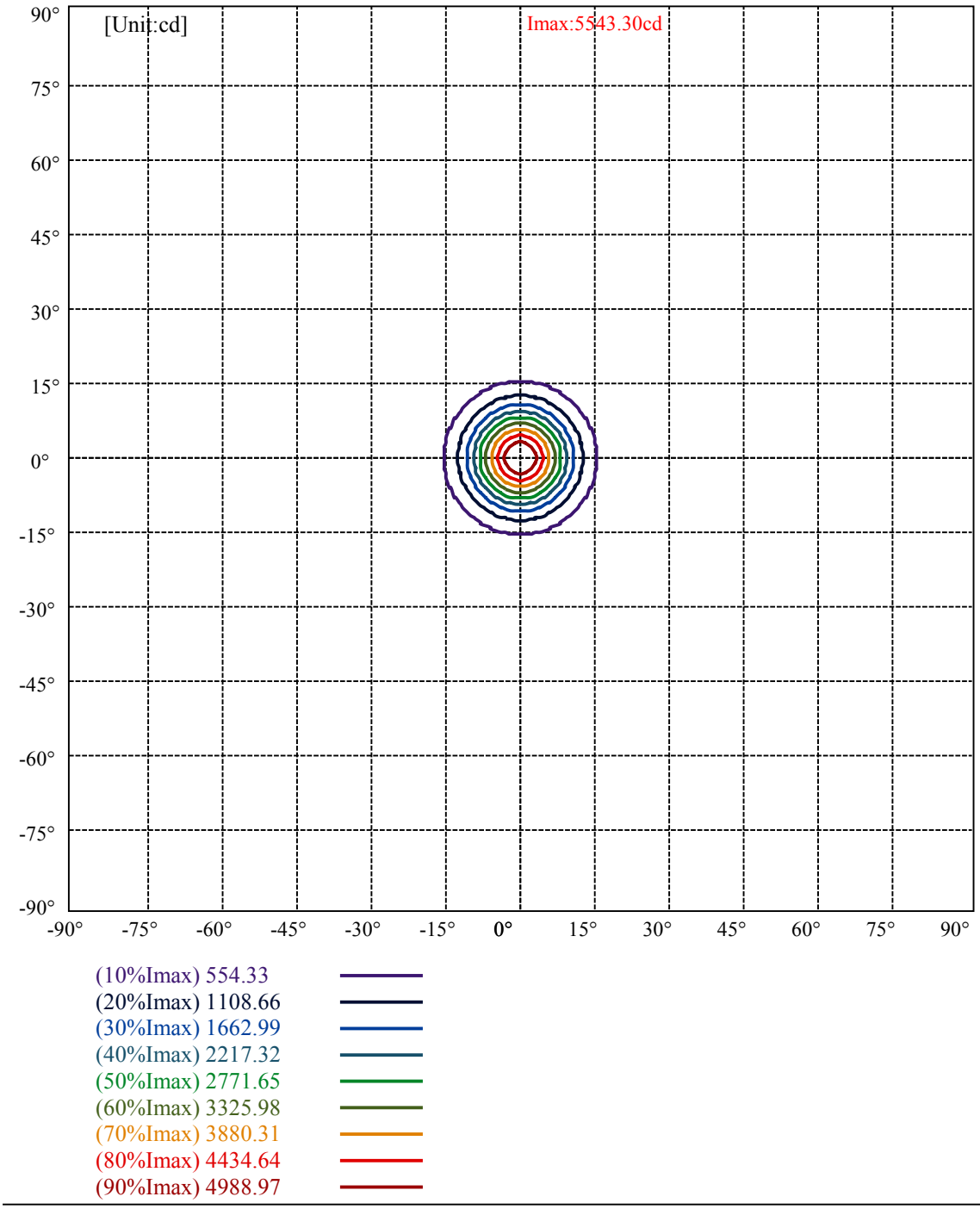
Field angle(10%Imax):C0/180Left:15.2 Right:15.2
:C90/270Left:15.2 Right:15.2

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)

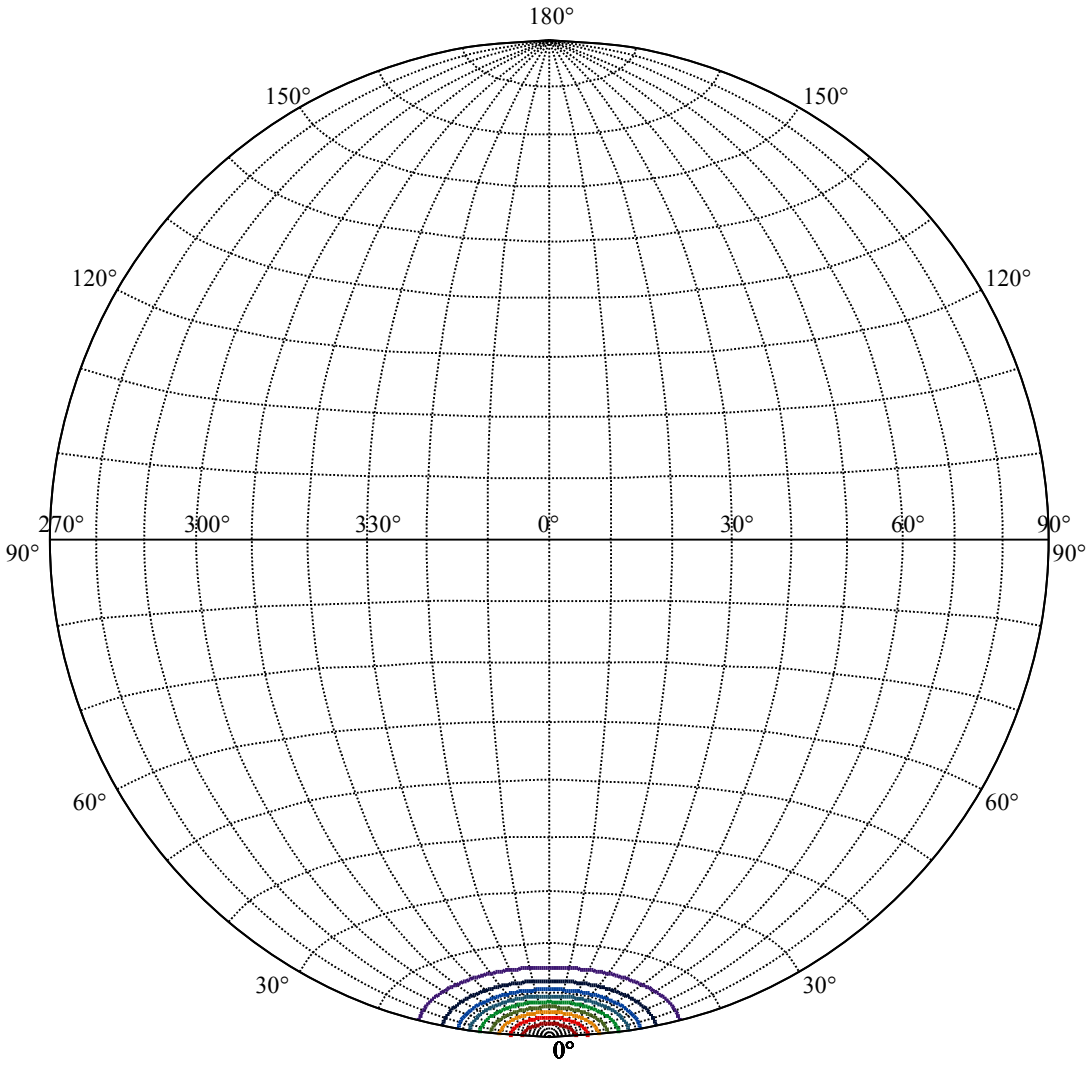


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:5543.30

(10%Imax) 554.33
(20%Imax) 1108.66
(30%Imax) 1662.99
(40%Imax) 2217.32
(50%Imax) 2771.65
(60%Imax) 3325.98
(70%Imax) 3880.31
(80%Imax) 4434.64
(90%Imax) 4988.97

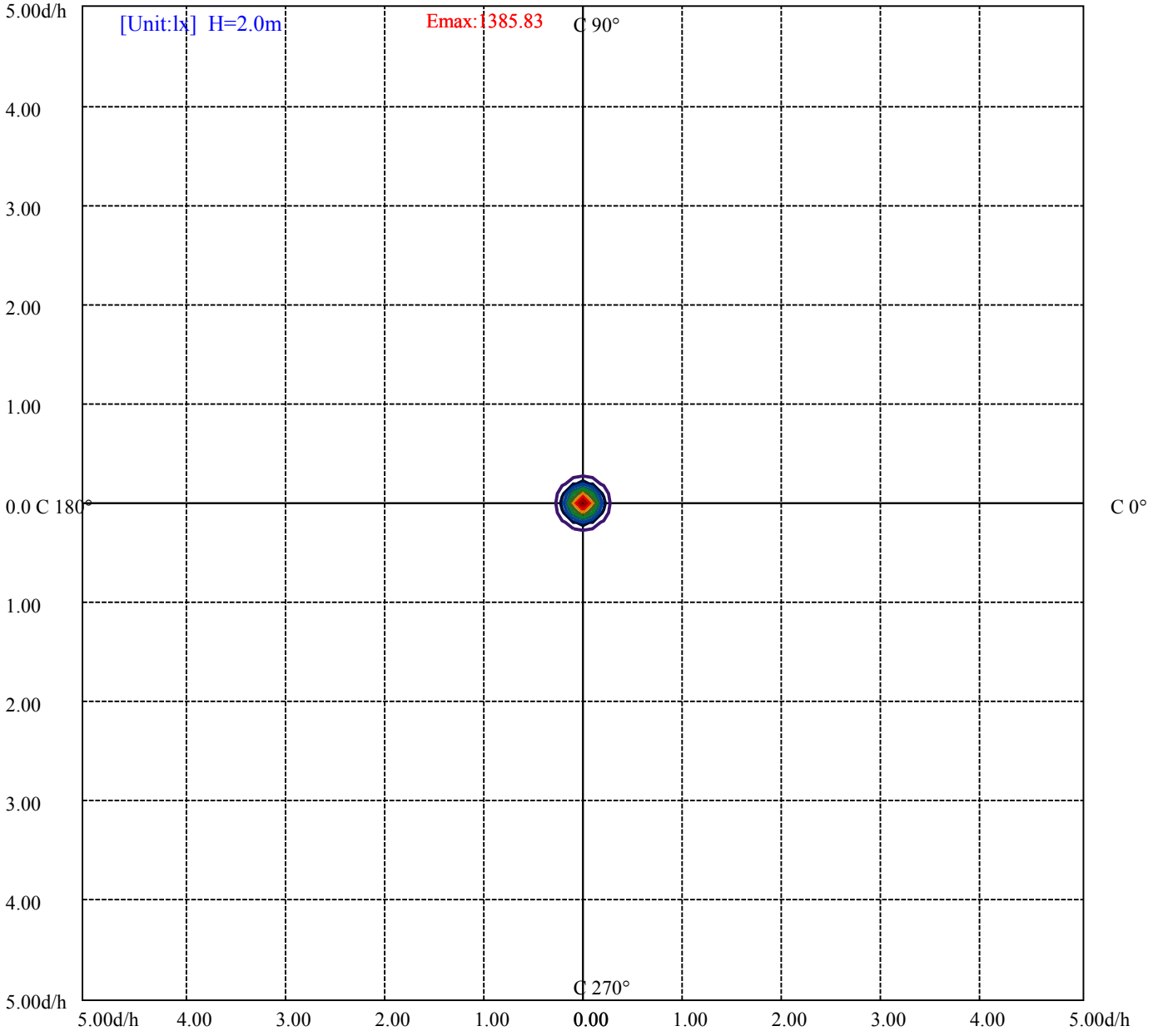
Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.50

Nata LM01D05015DA

ISO illuminance diagram

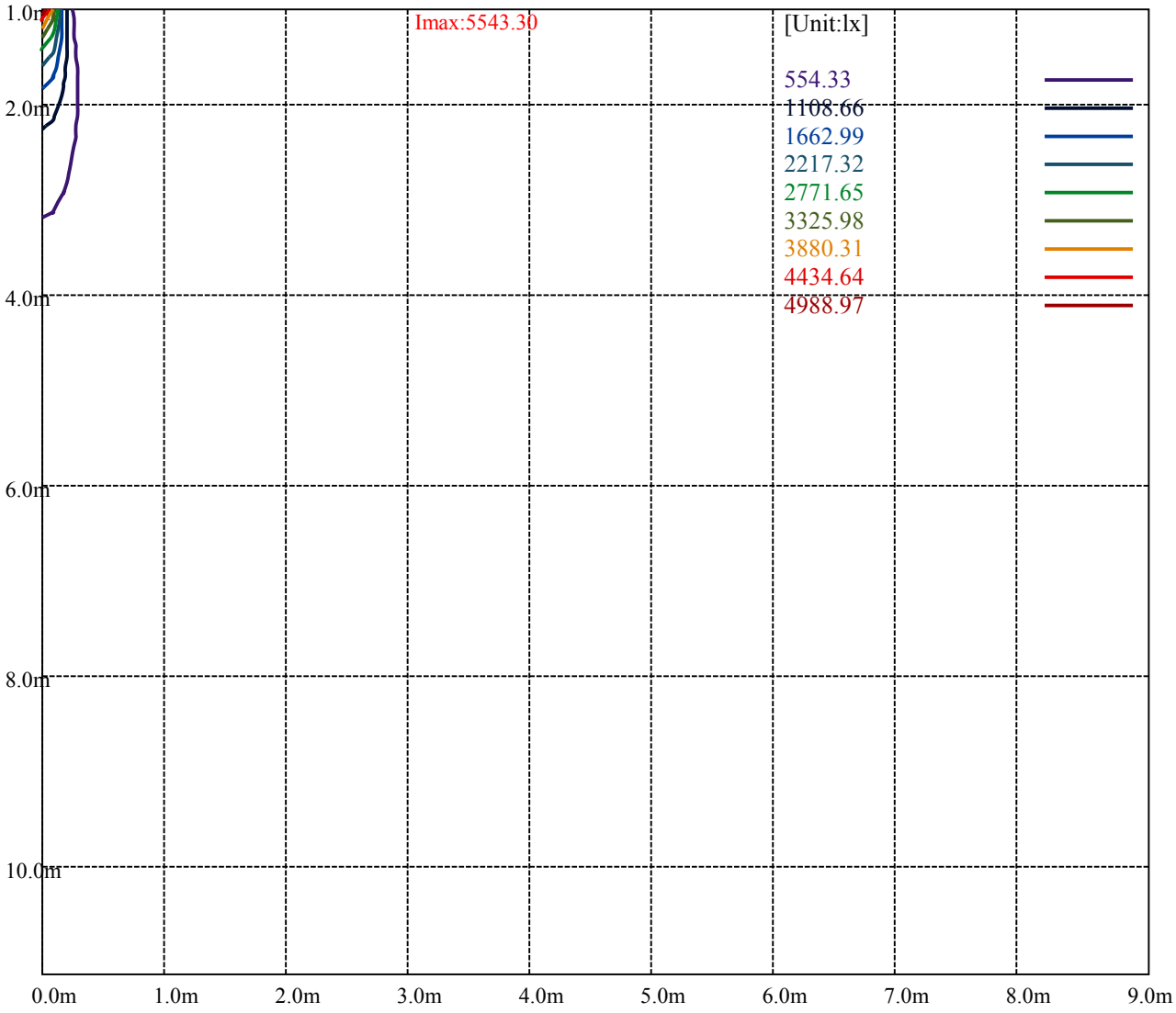


Equipment: GMS1980
Temperature(°C): 25.0

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

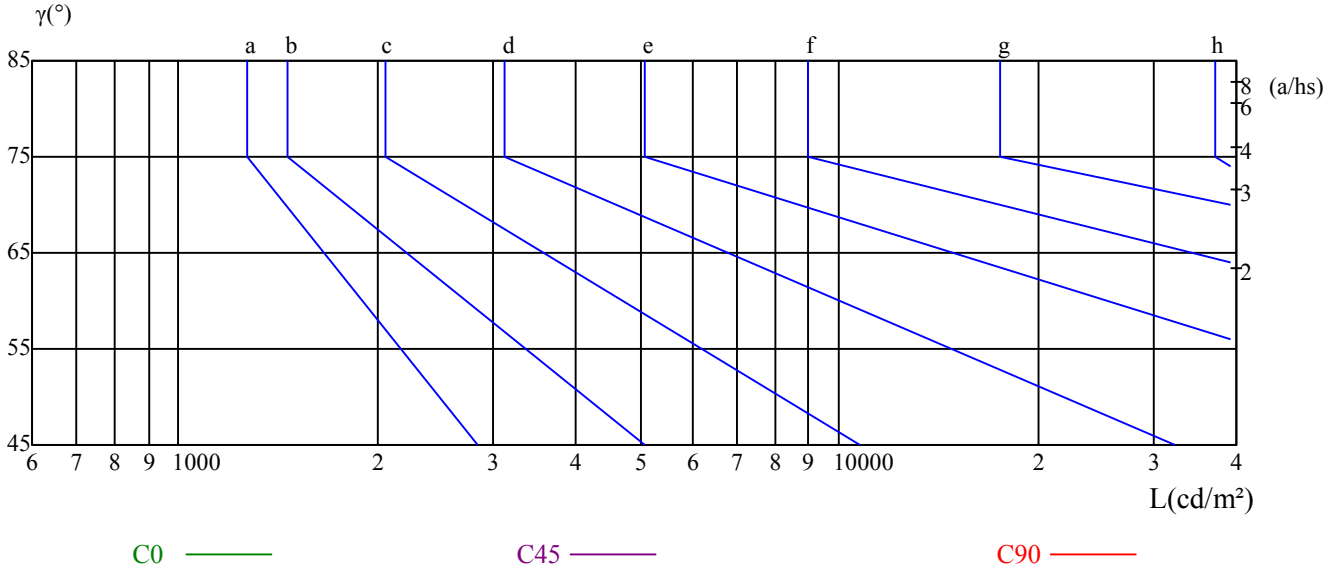
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

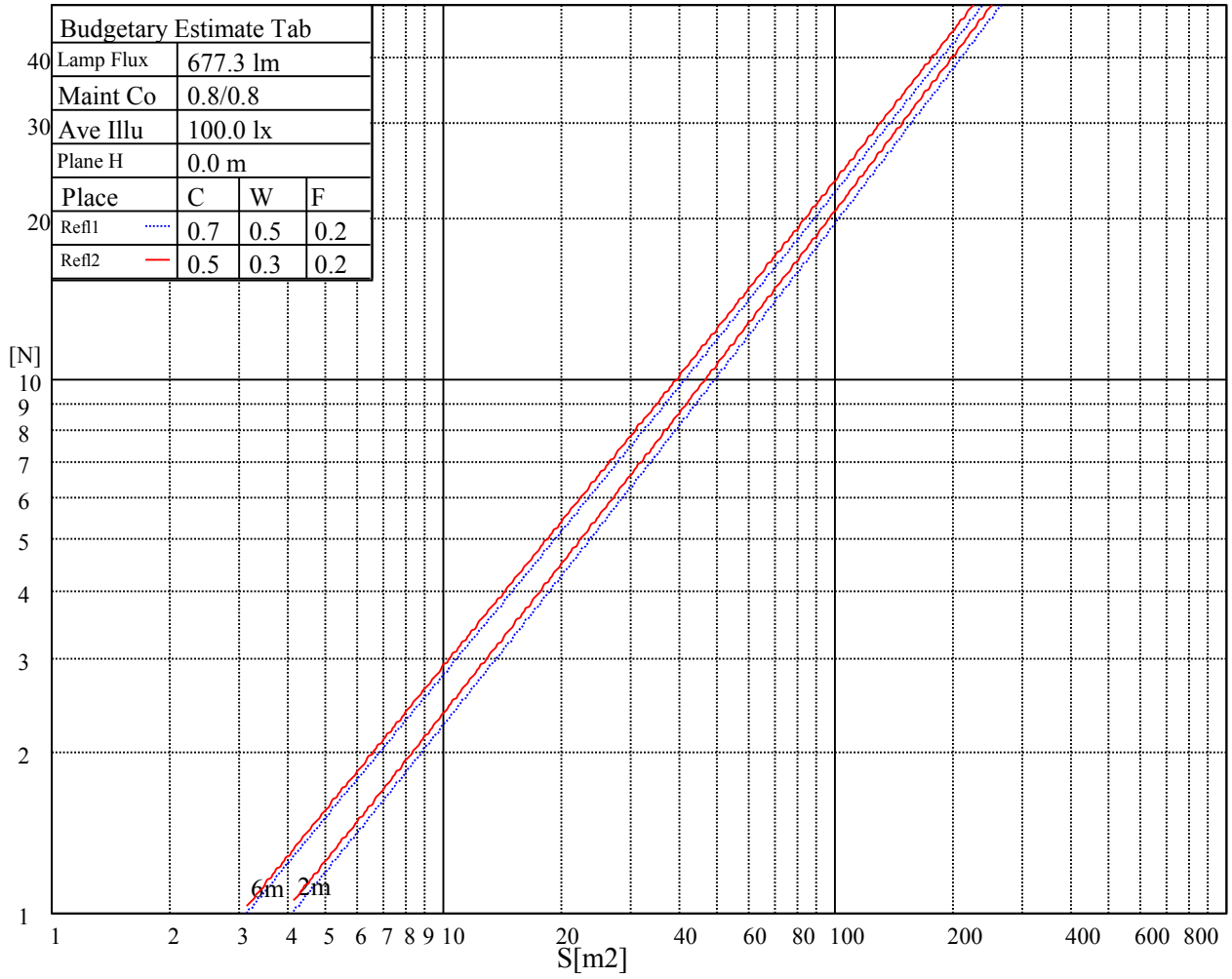
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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

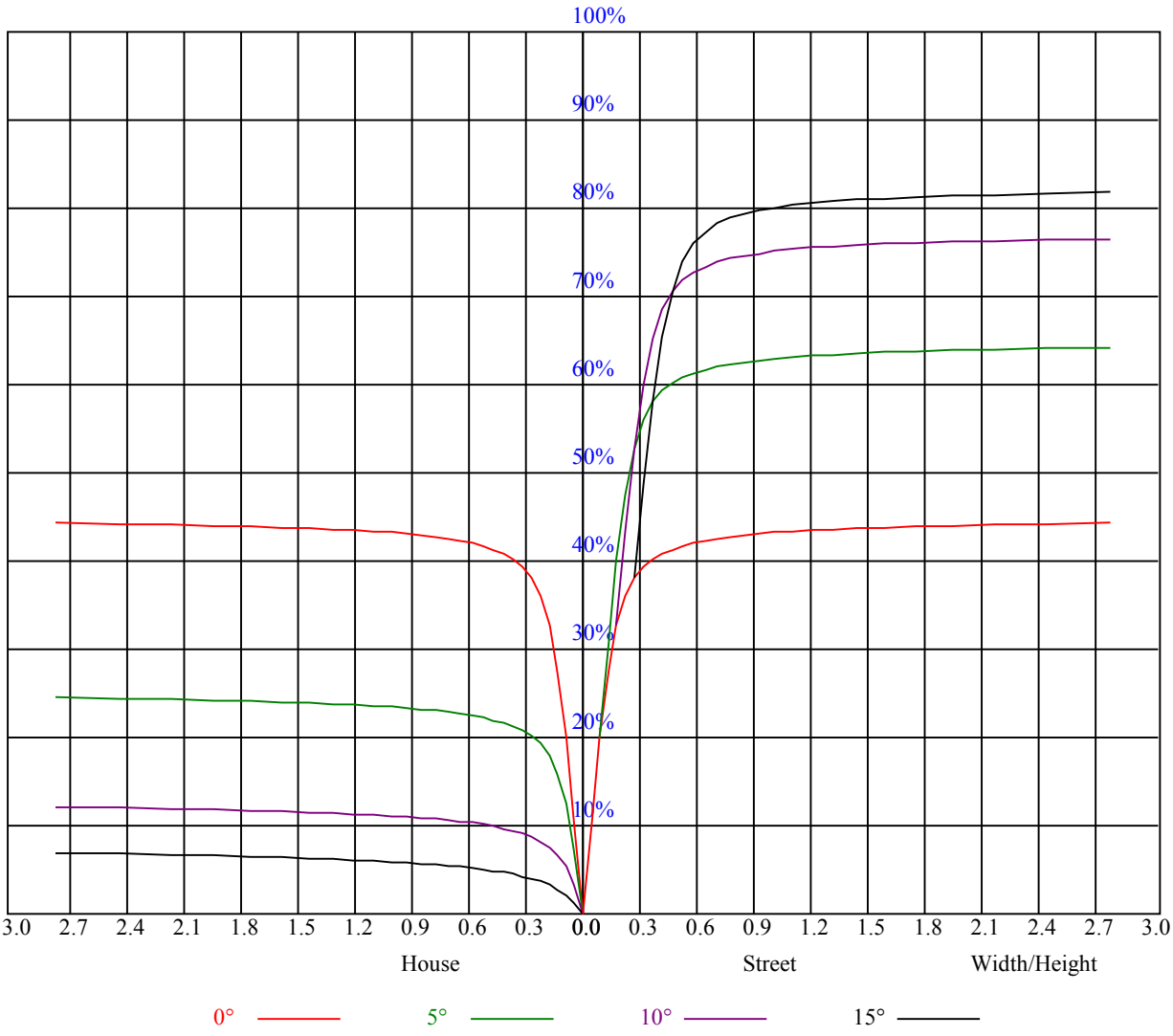


Equipment: GMS1980 Date: 2020/8/05 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.07	1.07	1.07	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	0.94	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.86	0.87	0.86	0.85	0.83
3	0.93	0.89	0.87	0.91	0.88	0.86	0.89	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.82	0.81
4	0.89	0.86	0.83	0.88	0.85	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.79
5	0.86	0.83	0.80	0.86	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	0.80	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	0.75
7	0.82	0.78	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.80	0.77	0.75	0.79	0.76	0.75	0.74
8	0.80	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.77	0.75	0.73	0.72
9	0.78	0.75	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.77	0.74	0.72	0.76	0.74	0.72	0.71
10	0.77	0.73	0.71	0.76	0.73	0.71	0.76	0.73	0.71	0.75	0.73	0.71	0.75	0.72	0.71	0.70

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	5559.19	5524.31	5362.31	5116.50	4725.56	4297.50	3786.19	3279.94	2835.56
45.0	5541.75	5427.56	5219.44	4804.31	4409.44	3916.69	3408.75	2948.63	2516.06
90.0	5515.88	5387.63	5122.69	4739.63	4331.25	3837.38	3375.56	2860.88	2376.00
135.0	5556.38	5513.63	5338.69	5087.25	4749.75	4227.75	3776.63	3318.75	2818.13
180.0	5559.19	5486.63	5317.88	4976.44	4601.25	4167.00	3651.75	3129.75	2683.13
225.0	5541.75	5565.94	5484.38	5274.56	4897.13	4551.19	4121.44	3498.75	3105.56
270.0	5515.88	5553.00	5478.19	5302.13	5033.25	4568.63	4137.75	3695.63	3253.50
315.0	5556.38	5494.50	5308.88	5013.56	4651.88	4172.06	3722.63	3225.38	2730.94
360.0	5559.19	5524.31	5362.31	5116.50	4725.56	4297.50	3786.19	3279.94	2835.56

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2356.88	1914.75	1565.44	1295.44	946.13	744.75	601.31	443.25	338.06
45.0	2013.75	1640.25	1321.88	1027.69	793.13	624.94	478.13	369.56	293.63
90.0	1971.56	1563.75	1093.67	980.38	779.40	577.07	451.29	356.85	277.59
135.0	2345.63	1950.75	1557.00	1252.13	972.00	750.94	593.44	458.44	351.00
180.0	2257.88	1775.25	1437.19	1117.91	860.85	676.46	528.75	401.57	308.08
225.0	2668.50	2099.25	1765.13	1429.31	1112.29	861.53	683.21	539.16	413.66
270.0	2701.13	2283.19	1843.88	1500.75	1175.63	936.56	719.44	546.75	432.00
315.0	2311.31	1873.69	1485.56	1097.78	954.23	695.87	570.83	453.43	353.25
360.0	2356.88	1914.75	1565.44	1295.44	946.13	744.75	601.31	443.25	338.06

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	285.19	210.43	169.14	141.64	117.56	101.70	87.13	75.54	67.05
45.0	252.62	191.36	154.58	128.53	111.09	94.78	81.11	72.00	64.35
90.0	219.38	182.08	150.98	128.14	112.33	97.82	87.86	78.24	69.86
135.0	285.19	250.88	179.94	154.41	129.88	112.33	95.18	83.14	73.63
180.0	245.08	192.71	158.79	130.50	109.69	95.01	81.79	71.38	63.62
225.0	324.28	265.22	214.20	175.22	147.60	123.69	106.37	91.07	78.58
270.0	336.38	288.00	218.59	178.26	151.37	129.49	108.56	95.46	84.38
315.0	280.46	231.02	188.16	155.53	132.69	111.88	97.14	83.31	72.34
360.0	285.19	210.43	169.14	141.64	117.56	101.70	87.13	75.54	67.05

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	59.91	52.48	47.31	43.03	38.64	35.83	33.36	31.11	28.97
45.0	56.42	51.08	46.29	41.96	37.91	35.49	32.34	30.26	28.46
90.0	63.45	57.77	51.53	46.91	42.98	38.76	35.83	33.30	30.77
135.0	64.13	57.83	52.14	46.24	42.24	38.53	35.16	32.40	30.26
180.0	57.04	50.18	45.39	41.06	37.29	34.14	31.84	29.70	27.79
225.0	69.64	61.09	54.23	48.94	44.44	39.66	36.51	33.86	31.39
270.0	73.18	65.93	59.46	53.49	48.15	44.16	40.16	37.18	34.14
315.0	64.18	57.21	50.06	45.28	41.12	36.96	34.26	31.95	29.98
360.0	59.91	52.48	47.31	43.03	38.64	35.83	33.36	31.11	28.97

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	27.45	25.82	24.47	23.12	21.83	20.81	19.58	18.39	17.33
45.0	26.44	24.98	23.46	22.11	20.87	19.74	18.34	17.33	16.31
90.0	28.58	26.72	24.86	23.18	21.83	20.25	19.01	17.66	16.37
135.0	28.24	26.61	24.92	23.40	22.11	20.87	19.41	18.28	17.04
180.0	26.33	24.86	23.74	22.50	21.26	20.14	19.18	17.89	16.88
225.0	29.31	27.62	25.99	24.41	23.12	21.71	20.48	19.18	18.00
270.0	31.73	29.76	27.73	25.88	24.24	22.89	21.21	19.86	18.51
315.0	27.73	26.21	24.81	23.23	21.83	20.64	19.35	18.06	16.99
360.0	27.45	25.82	24.47	23.12	21.83	20.81	19.58	18.39	17.33

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	16.37	15.24	14.34	13.50	12.71	12.04	11.42	10.91	10.46
45.0	15.19	14.23	13.50	12.71	12.04	11.59	11.19	10.80	10.35
90.0	15.36	14.34	13.33	12.60	11.93	11.19	10.74	10.29	9.84
135.0	15.86	14.91	14.12	13.16	12.38	11.87	11.19	10.74	10.35
180.0	15.98	14.96	14.12	13.33	12.54	11.98	11.42	10.97	10.52
225.0	16.93	15.86	14.68	13.89	13.16	12.32	11.81	11.31	10.86
270.0	17.10	15.98	14.96	13.89	12.99	12.32	11.59	11.08	10.58
315.0	15.75	14.74	13.78	12.88	12.21	11.59	11.03	10.58	10.13
360.0	16.37	15.24	14.34	13.50	12.71	12.04	11.42	10.91	10.46

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	10.07	9.68	9.34	9.00	8.66	8.38	8.10	7.82	7.59
45.0	10.07	9.68	9.39	9.06	8.78	8.55	8.27	8.10	7.82
90.0	9.45	9.11	8.72	8.44	8.16	7.88	7.71	7.48	7.20
135.0	9.90	9.51	9.17	8.83	8.55	8.27	7.93	7.65	7.43
180.0	10.07	9.68	9.34	8.94	8.61	8.33	8.10	7.76	7.54
225.0	10.41	10.01	9.68	9.34	8.94	8.61	8.33	7.99	7.71
270.0	10.18	9.79	9.45	9.06	8.83	8.55	8.21	7.93	7.71
315.0	9.73	9.39	9.06	8.72	8.38	8.10	7.88	7.59	7.37
360.0	10.07	9.68	9.34	9.00	8.66	8.38	8.10	7.82	7.59

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.43	7.20	7.03	6.81	6.64	6.47	6.30	6.19	6.02
45.0	7.54	7.31	7.09	6.92	6.69	6.53	6.36	6.19	5.96
90.0	7.03	6.86	6.64	6.53	6.36	6.24	7.54	10.69	14.79
135.0	7.20	6.92	6.75	6.53	6.30	6.13	5.96	5.85	5.63
180.0	7.37	7.14	6.92	6.69	6.53	6.36	6.19	6.02	5.85
225.0	7.48	7.26	6.98	6.81	6.64	6.41	6.24	6.08	5.91
270.0	7.48	7.26	7.09	6.86	6.69	6.64	6.47	6.36	6.86
315.0	7.14	6.92	6.75	6.53	6.36	6.19	6.02	5.85	5.74
360.0	7.43	7.20	7.03	6.81	6.64	6.47	6.30	6.19	6.02

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.85	5.68	5.46	5.29	5.12	4.95	4.78	4.61	4.44
45.0	5.74	5.51	5.34	5.12	4.95	4.84	4.61	4.44	4.28
90.0	19.29	23.23	27.51	30.83	33.41	33.47	30.32	27.17	23.12
135.0	5.51	5.40	5.23	5.01	4.89	4.78	4.61	4.44	4.28
180.0	5.63	5.46	5.29	5.12	4.95	4.84	4.67	4.50	4.39
225.0	5.74	5.57	5.40	5.23	5.06	4.89	4.78	4.61	4.44
270.0	10.41	14.23	17.83	22.11	25.31	28.07	29.42	28.24	25.03
315.0	5.51	5.40	5.23	5.12	4.95	4.78	4.67	4.50	4.33
360.0	5.85	5.68	5.46	5.29	5.12	4.95	4.78	4.61	4.44

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.33	4.16	3.99	3.88	3.71	3.54	3.38	3.26	3.15
45.0	4.16	3.94	3.77	3.66	3.49	3.32	3.15	2.98	2.93
90.0	17.27	10.46	4.50	3.83	3.60	3.38	3.09	2.93	2.93
135.0	4.16	3.99	3.83	3.66	3.54	3.32	3.09	2.98	2.93
180.0	4.28	4.11	3.99	3.83	3.66	3.54	3.32	3.21	3.15
225.0	4.33	4.16	3.99	3.83	3.71	3.60	3.43	3.26	3.09
270.0	21.38	18.34	13.61	7.59	4.22	3.83	3.60	3.21	3.04
315.0	4.16	3.99	3.83	3.66	3.54	3.38	3.21	3.04	2.93
360.0	4.33	4.16	3.99	3.88	3.71	3.54	3.38	3.26	3.15

Intensity data(cd)

C/γ(°)	90.0
0.0	3.15
45.0	2.93
90.0	2.87
135.0	2.87
180.0	3.15
225.0	2.98
270.0	2.98
315.0	2.87
360.0	3.15