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

NT

Client:
LumCAT: 2-2643-L
Luminaire: 92.70.412.00
Report No: 20231116-B006
Ballast type: AC

Test No: 20231116-C006	Voltage(V): 34.590
LampCAT: Fortimo_SLM_C_1210	Current(A): 0.720
Lamp flux(lm): 4030.4	Power (W): 24.904
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3746.20, Efficiency(%): 92.95% , Luminous Efficacy(lm/W): 150.43
Central intensity(cd): 19027.800, Maximum intensity(cd): 19027.800
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=18.6
[C90/270]Total=18.6
Field angle(10%Imax): [C0/180]Total=47.8
[C90/270]Total=47.8
Maximum s/h(1/2): C0_180=0.32 C90_270=0.32
Maximum s/h(1/4): C0_180=0.35 C90_270=0.35
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.95%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.911%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	19027.801	0.000	0	0.00%	0.00%
1.0	18820.916	18.110	18.11	0.45%	0.48%
2.0	18326.885	53.318	71.428	1.32%	1.91%
3.0	17548.475	85.802	157.23	2.13%	4.20%
4.0	16464.928	113.854	271.084	2.82%	7.24%
5.0	15115.684	135.858	406.942	3.37%	10.86%
6.0	13732.744	151.606	558.548	3.76%	14.91%
7.0	12083.691	160.242	718.79	3.98%	19.19%
8.0	11032.941	165.441	884.232	4.10%	23.60%
9.0	9893.072	169.594	1053.825	4.21%	28.13%
10.0	8650.384	167.811	1221.637	4.16%	32.61%
11.0	7471.421	161.090	1382.727	4.00%	36.91%
12.0	6541.758	153.184	1535.911	3.80%	41.00%
13.0	5727.991	145.611	1681.522	3.61%	44.89%
14.0	5036.001	137.778	1819.3	3.42%	48.56%
15.0	4498.034	130.887	1950.188	3.25%	52.06%
16.0	4041.436	125.127	2075.315	3.10%	55.40%
17.0	3636.247	119.562	2194.877	2.97%	58.59%
18.0	3298.452	114.338	2309.215	2.84%	61.64%
19.0	3002.241	109.619	2418.834	2.72%	64.57%
20.0	2764.497	105.547	2524.381	2.62%	67.39%
21.0	2595.115	102.915	2627.297	2.55%	70.13%
22.0	2348.031	99.335	2726.631	2.46%	72.78%
23.0	2068.702	92.675	2819.306	2.30%	75.26%
24.0	1883.891	86.418	2905.724	2.14%	77.56%
25.0	1705.583	81.617	2987.341	2.03%	79.74%
26.0	1473.534	75.043	3062.384	1.86%	81.75%
27.0	1313.977	68.197	3130.582	1.69%	83.57%
28.0	1174.327	62.999	3193.58	1.56%	85.25%
29.0	1063.211	58.540	3252.12	1.45%	86.81%
30.0	915.410	53.422	3305.543	1.33%	88.24%
31.0	784.893	47.317	3352.86	1.17%	89.50%
32.0	664.043	41.510	3394.37	1.03%	90.61%
33.0	555.612	35.931	3430.302	0.89%	91.57%
34.0	460.860	30.761	3461.063	0.76%	92.39%
35.0	381.345	26.156	3487.219	0.65%	93.09%
36.0	311.080	22.047	3509.266	0.55%	93.68%
37.0	265.178	18.794	3528.06	0.47%	94.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	230.541	16.546	3544.606	0.41%	94.62%
39.0	183.712	14.140	3558.746	0.35%	95.00%
40.0	141.691	11.349	3570.095	0.28%	95.30%
41.0	118.955	9.281	3579.376	0.23%	95.55%
42.0	102.487	8.045	3587.422	0.20%	95.76%
43.0	89.175	7.100	3594.521	0.18%	95.95%
44.0	79.197	6.355	3600.876	0.16%	96.12%
45.0	71.282	5.783	3606.659	0.14%	96.28%
46.0	65.400	5.345	3612.005	0.13%	96.42%
47.0	60.474	5.006	3617.011	0.12%	96.55%
48.0	56.343	4.722	3621.733	0.12%	96.68%
49.0	53.043	4.492	3626.225	0.11%	96.80%
50.0	49.991	4.296	3630.521	0.11%	96.91%
51.0	47.369	4.119	3634.64	0.10%	97.02%
52.0	45.265	3.975	3638.615	0.10%	97.13%
53.0	43.459	3.860	3642.475	0.10%	97.23%
54.0	41.910	3.763	3646.238	0.09%	97.33%
55.0	40.719	3.688	3649.926	0.09%	97.43%
56.0	39.744	3.636	3653.562	0.09%	97.53%
57.0	38.969	3.599	3657.161	0.09%	97.62%
58.0	38.512	3.583	3660.744	0.09%	97.72%
59.0	38.201	3.586	3664.33	0.09%	97.81%
60.0	37.973	3.599	3667.929	0.09%	97.91%
61.0	37.710	3.612	3671.541	0.09%	98.01%
62.0	37.350	3.617	3675.157	0.09%	98.10%
63.0	36.796	3.606	3678.764	0.09%	98.20%
64.0	35.821	3.563	3682.327	0.09%	98.30%
65.0	34.672	3.489	3685.816	0.09%	98.39%
66.0	33.316	3.392	3689.208	0.08%	98.48%
67.0	31.738	3.271	3692.479	0.08%	98.57%
68.0	30.334	3.144	3695.623	0.08%	98.65%
69.0	28.895	3.022	3698.645	0.07%	98.73%
70.0	27.774	2.910	3701.555	0.07%	98.81%
71.0	26.680	2.814	3704.37	0.07%	98.88%
72.0	25.788	2.728	3707.098	0.07%	98.96%
73.0	24.985	2.655	3709.753	0.07%	99.03%
74.0	24.259	2.589	3712.342	0.06%	99.10%
75.0	23.622	2.530	3714.872	0.06%	99.16%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	22.979	2.474	3717.345	0.06%	99.23%
77.0	22.349	2.417	3719.762	0.06%	99.29%
78.0	21.719	2.359	3722.121	0.06%	99.36%
79.0	21.124	2.302	3724.423	0.06%	99.42%
80.0	20.488	2.243	3726.666	0.06%	99.48%
81.0	19.900	2.184	3728.85	0.05%	99.54%
82.0	19.305	2.126	3730.976	0.05%	99.59%
83.0	18.744	2.068	3733.045	0.05%	99.65%
84.0	18.225	2.014	3735.059	0.05%	99.70%
85.0	17.755	1.964	3737.023	0.05%	99.76%
86.0	17.277	1.915	3738.937	0.05%	99.81%
87.0	16.897	1.870	3740.808	0.05%	99.86%
88.0	16.495	1.829	3742.637	0.05%	99.90%
89.0	16.219	1.793	3744.43	0.04%	99.95%
90.0	16.039	1.769	3746.199	0.04%	100.00%

Zonal flux distribution table

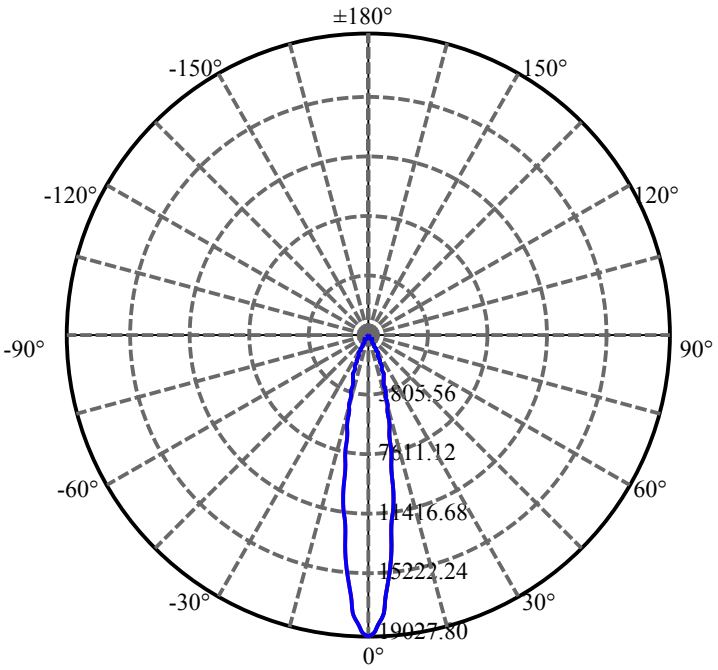
ZONAL LUMEN SUMMARY

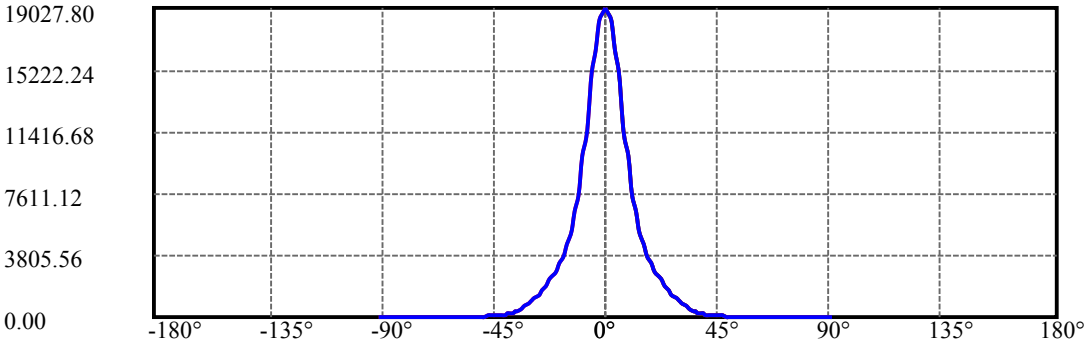
Zone	Lumens	%Lamp	%Fixt
0-30	3305.54	82.02%	88.24%
0-40	3570.09	88.58%	95.30%
0-60	3667.93	91.01%	97.91%
0-90	3744.43	92.90%	99.95%
0-120	3744.43	92.90%	99.95%
0-180	3746.20	92.95%	100.00%
60-90	76.50	1.90%	2.04%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.13	2996.96	74.36%	80.00%

ZONAL LUMEN SUMMARY

0-10	1221.64
10-20	1302.74
20-30	781.16
30-40	264.55
40-50	60.43
50-60	37.41
60-70	33.63
70-80	25.11
80-90	17.76
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):

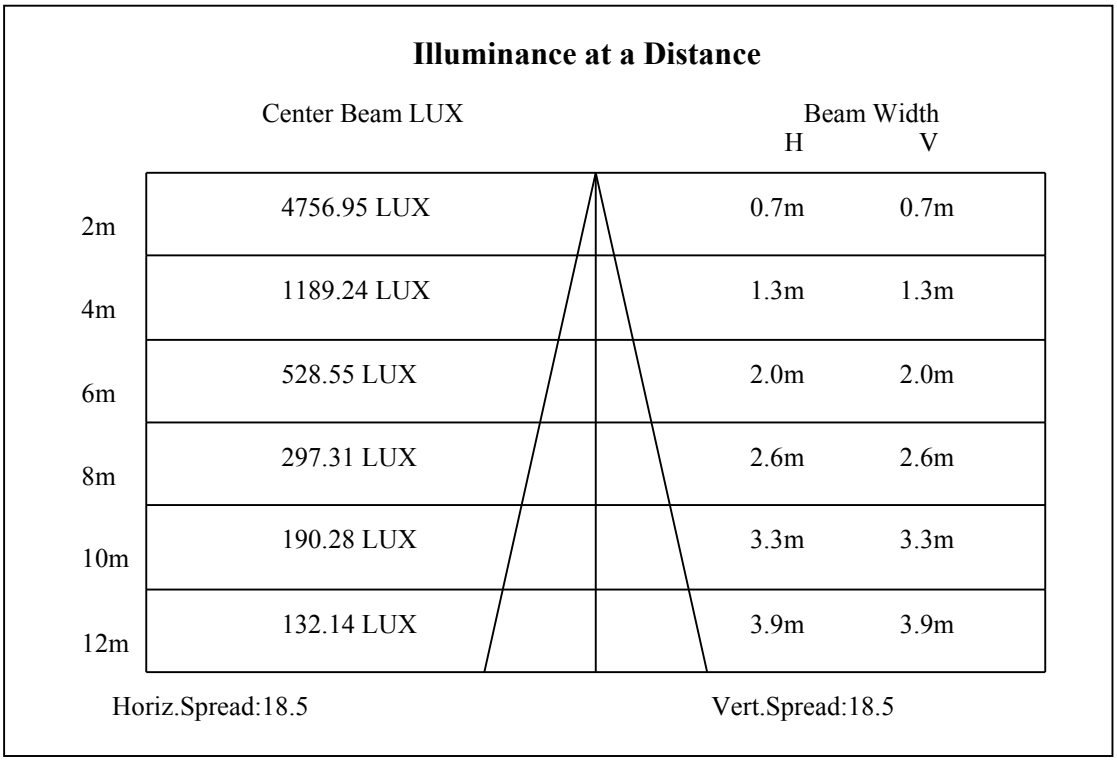
C0/C180:

C90/C270:

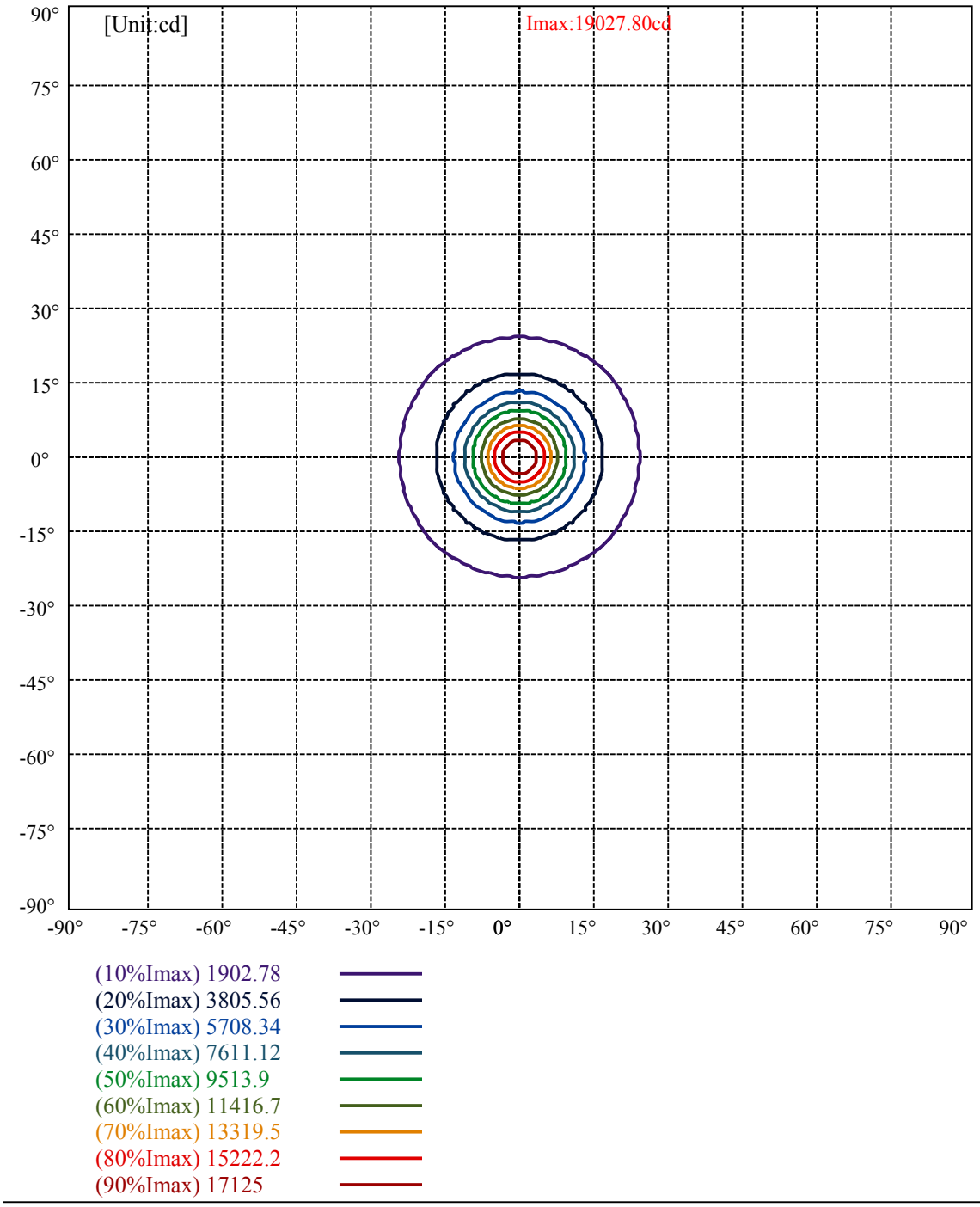
Field angle(10%Imax):C0/180Left:23.9 Right:23.9
:C90/270Left:23.9 Right:23.9

Beam Angle(50%Imax):C0/180Left:9.3 Right:9.3
:C90/270Left:9.3 Right:9.3

Lux distance Curve



ISO-Intensity(V-H)



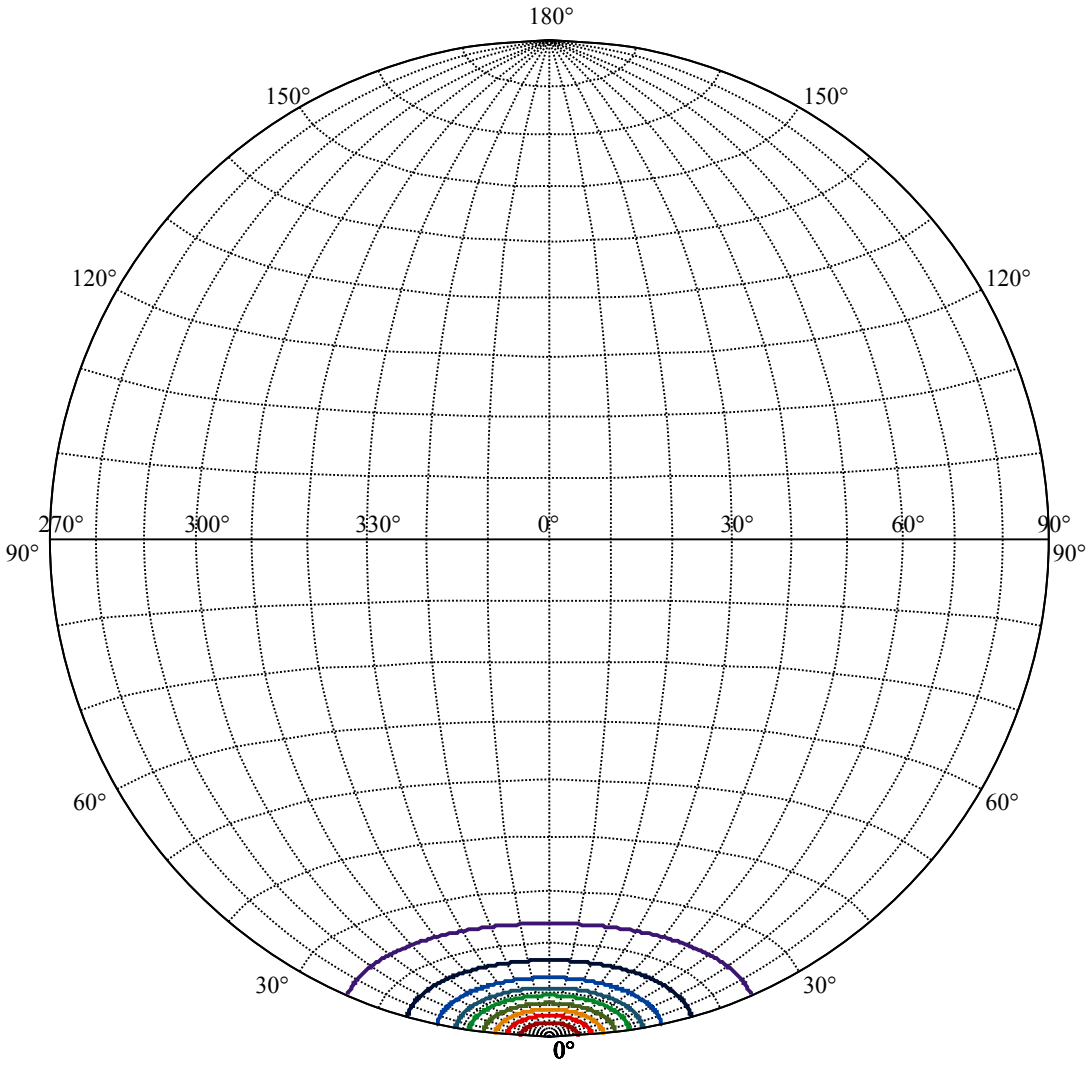
(10%Imax) 1902.78
(20%Imax) 3805.56
(30%Imax) 5708.34
(40%Imax) 7611.12
(50%Imax) 9513.9
(60%Imax) 11416.7
(70%Imax) 13319.5
(80%Imax) 15222.2
(90%Imax) 17125

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/16
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:19027.80

(10%Imax) 1902.78
(20%Imax) 3805.56
(30%Imax) 5708.34
(40%Imax) 7611.12
(50%Imax) 9513.9
(60%Imax) 11416.7
(70%Imax) 13319.5
(80%Imax) 15222.2
(90%Imax) 17125

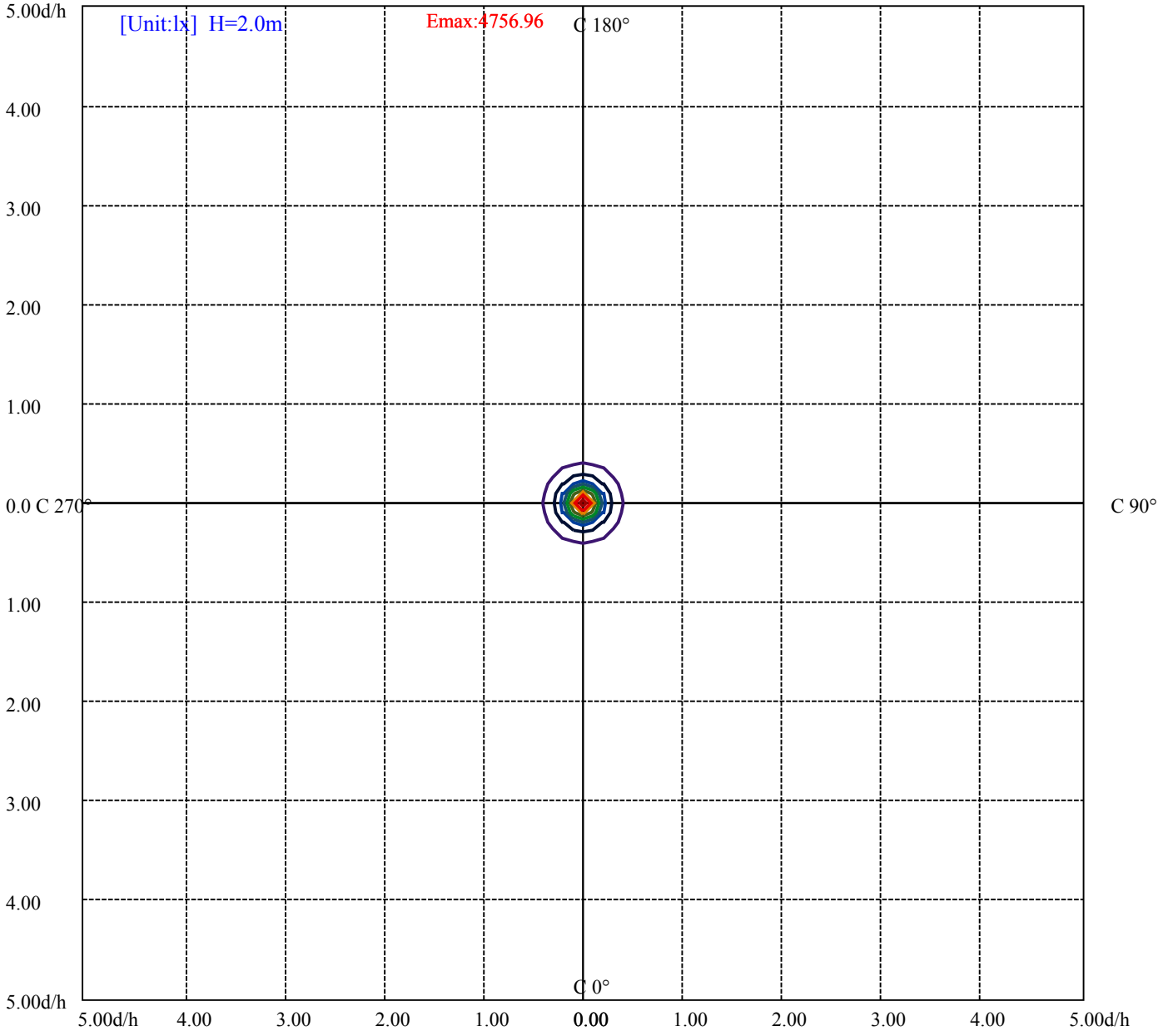
Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/16
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 2-2643-L

ISO illuminance diagram



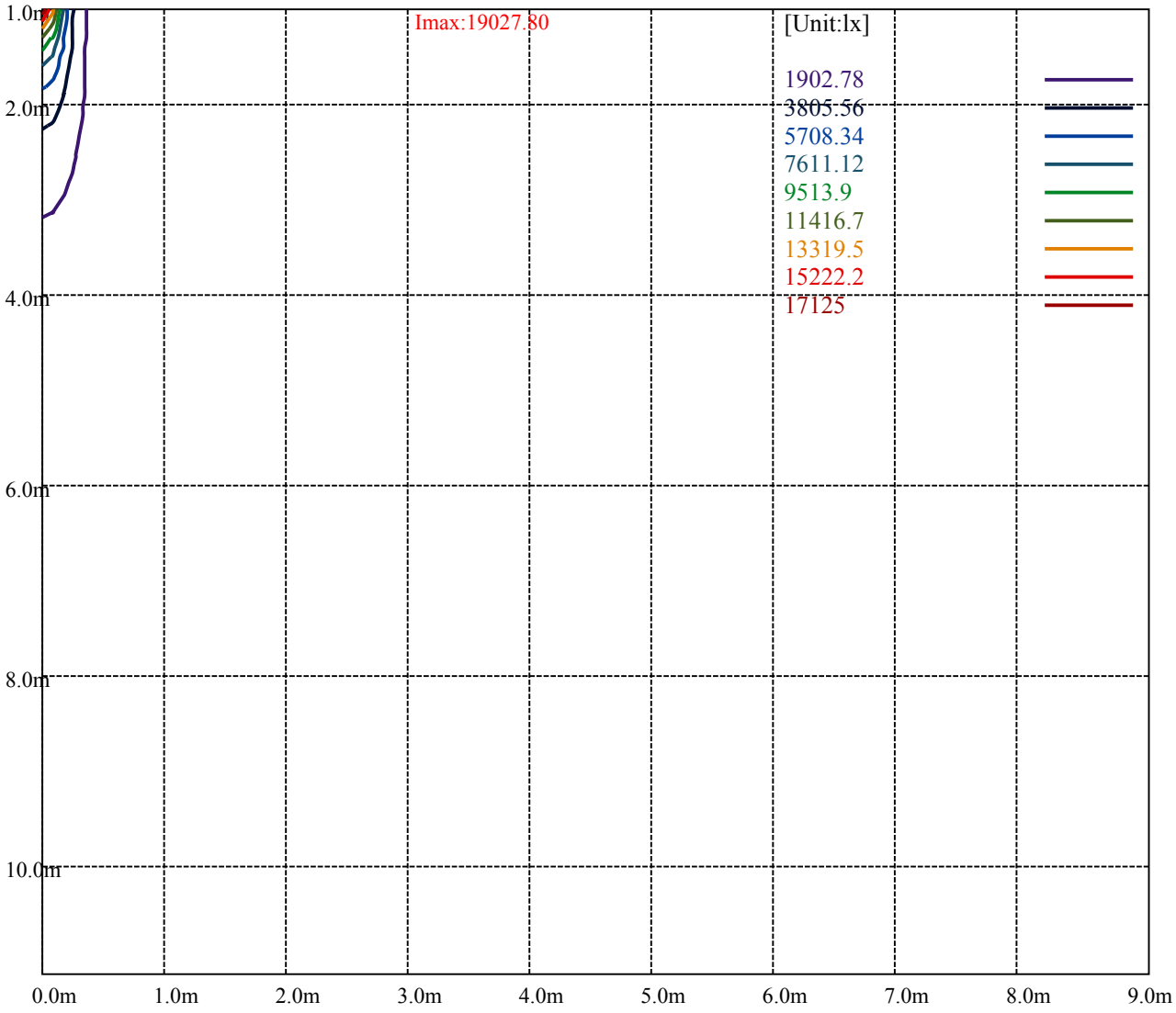
(10%Emax) 475.695
(20%Emax) 951.3875
(30%Emax) 1427.083
(40%Emax) 1902.777
(50%Emax) 2378.47
(60%Emax) 2854.175
(70%Emax) 3329.85
(80%Emax) 3805.55
(90%Emax) 4281.25

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/16
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/16
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 2-2643-L

Luminance Limitting Curve(no luminous side)

Luminance Table

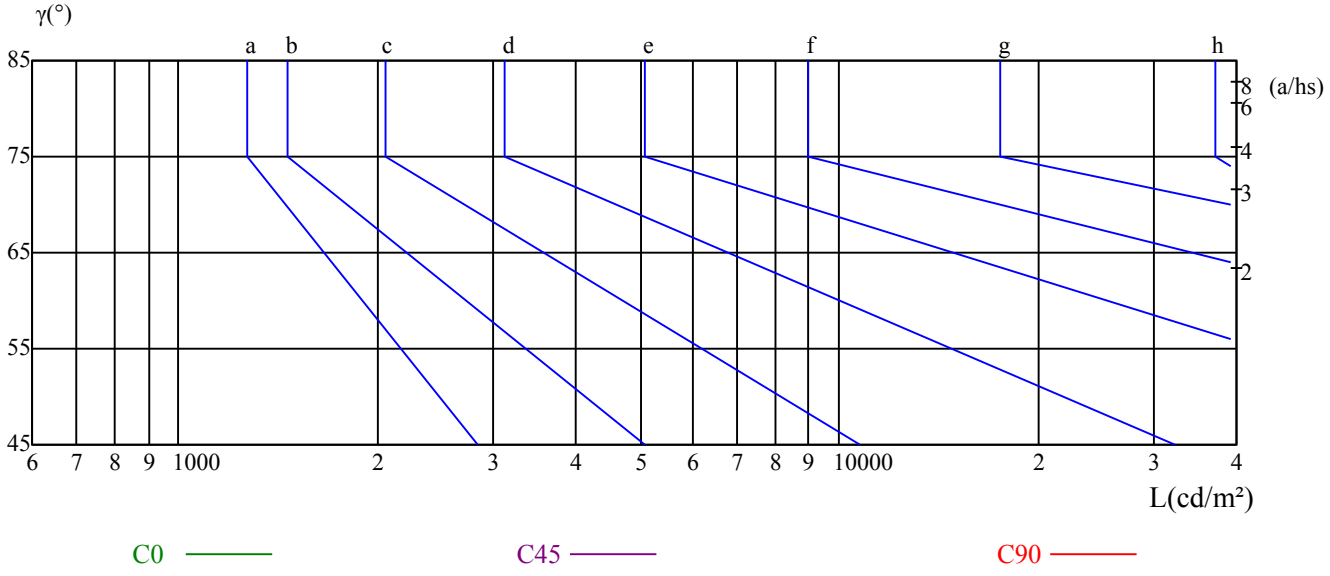
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

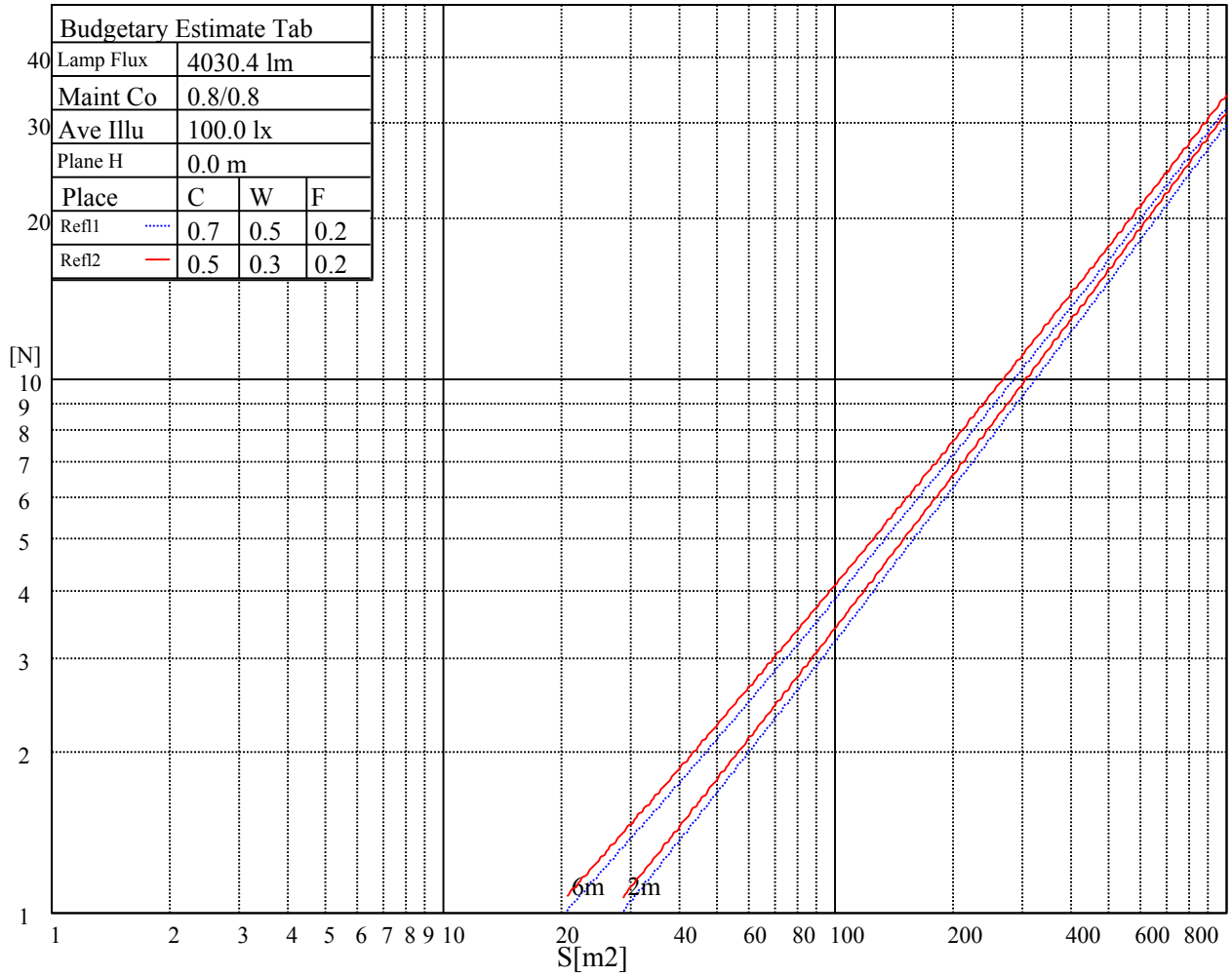
Luminance Limitting Curve



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	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
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				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Budgetary Estimate Table

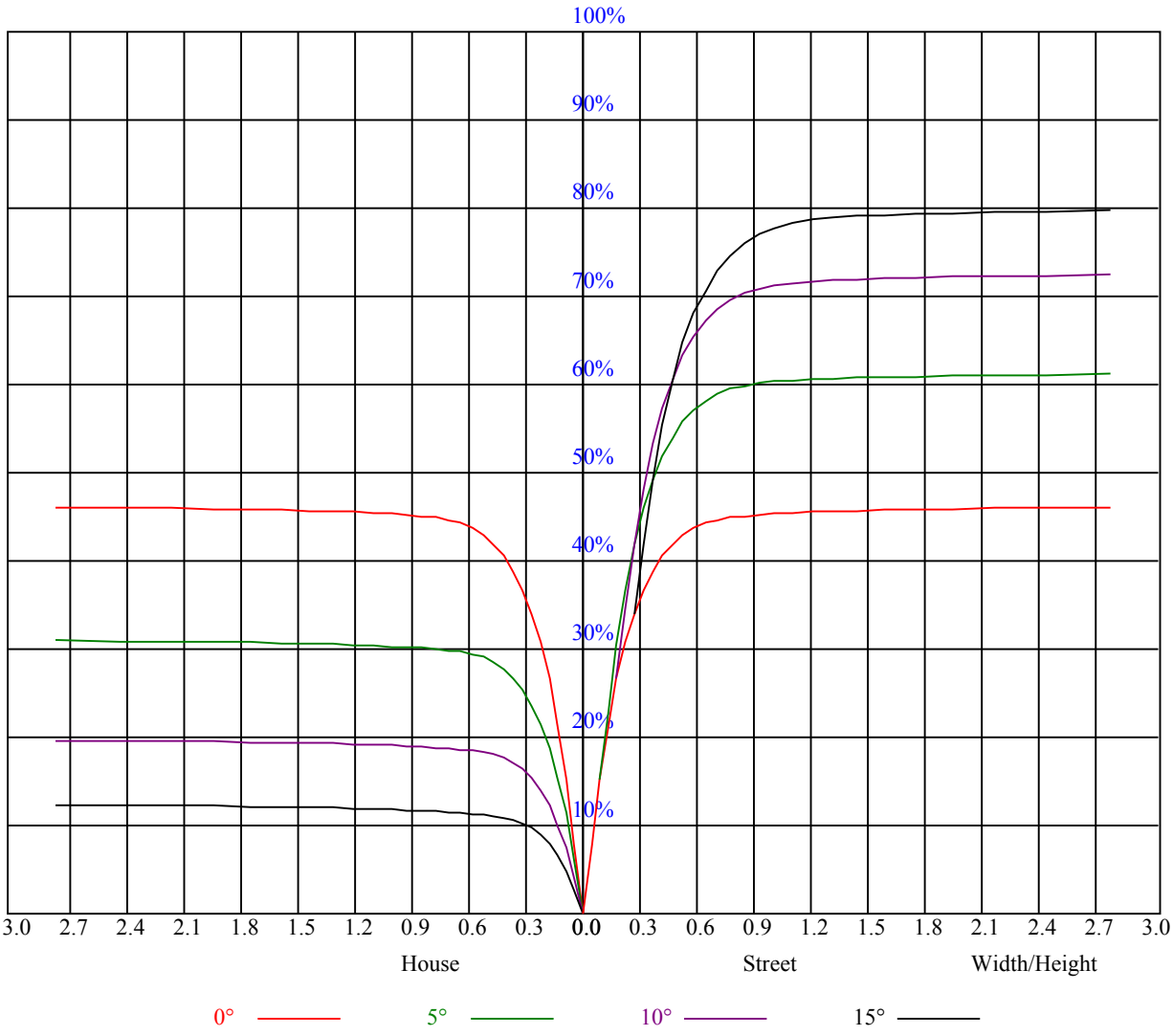


Equipment: GMS1980 Date: 2023/11/16 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.11	1.11	1.11	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.04	1.02	1.00	1.02	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.88
2	0.98	0.95	0.93	0.97	0.94	0.92	0.94	0.92	0.90	0.91	0.89	0.88	0.89	0.87	0.86	0.84
3	0.93	0.90	0.87	0.92	0.89	0.86	0.90	0.87	0.85	0.88	0.85	0.83	0.86	0.84	0.82	0.81
4	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.81	0.85	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	0.76	0.80	0.78	0.76	0.75
6	0.82	0.78	0.75	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
7	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.73	0.70	0.69
8	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
9	0.74	0.69	0.67	0.73	0.69	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.65
10	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/11/16	Operator: NT07
Temperature(°C): 0.0	Humidity(%): 0.0%	Distance(m): 7.44

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	18881.11	18178.12	17386.57	16434.48	14978.68	12759.00	11044.70	11044.70	9467.13
45.0	19146.81	18903.25	18189.19	17358.89	16047.01	14840.30	13567.17	11917.63	10616.82
90.0	18908.79	18167.05	17320.14	16024.87	14812.62	12559.73	10854.84	10529.92	9281.14
135.0	19174.49	18930.93	18377.40	17563.70	16279.49	15072.79	13805.19	12504.38	10865.91
180.0	18881.11	19141.27	19080.39	18576.67	17862.61	16949.27	15582.04	14342.12	13024.70
225.0	19146.81	19069.32	18587.74	17912.42	17021.23	15963.98	14452.82	11018.69	11018.69
270.0	18908.79	19163.42	19085.92	18593.27	17912.42	17043.37	16013.80	14508.18	13185.23
315.0	19174.49	19013.96	18587.74	17923.50	16805.35	15737.03	14541.39	10803.92	10803.92
360.0	18881.11	18178.12	17386.57	16434.48	14978.68	12759.00	11044.70	11044.70	9467.13

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8326.84	7309.44	6429.87	5505.47	4917.06	4429.40	3914.05	3566.43	3272.50
45.0	9376.90	8258.76	7029.91	6188.53	5502.15	4920.94	4428.29	3913.50	3581.38
90.0	8164.66	7183.24	6126.54	5426.87	4852.85	4378.47	3874.75	3537.10	3182.28
135.0	9614.92	8458.03	7184.90	6332.45	5452.33	4865.58	4372.93	3968.85	3537.10
180.0	11330.88	10057.75	8817.83	7705.22	6515.12	5745.70	5125.74	4599.88	4062.95
225.0	10348.36	8770.78	7671.46	6720.48	5904.01	5080.91	4555.60	4012.58	3647.80
270.0	11834.60	10533.79	8956.21	7827.00	6841.70	5817.66	5175.56	4627.56	4074.02
315.0	10147.42	8631.29	7554.66	6628.04	5838.70	5049.36	4537.33	4105.58	3731.94
360.0	8326.84	7309.44	6429.87	5505.47	4917.06	4429.40	3914.05	3566.43	3272.50

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2937.62	2689.63	2459.91	2207.50	2024.83	1853.24	1689.95	1495.65	1084.32
45.0	3216.04	2961.42	2834.10	2834.10	2237.95	2056.39	1883.68	1676.11	1515.58
90.0	2924.33	2683.54	2404.56	2206.95	2026.50	1813.94	1654.52	1500.64	1084.60
135.0	3238.19	2972.49	2845.18	2845.18	2244.59	2062.48	1891.99	1692.16	1537.17
180.0	3703.16	3304.61	3027.84	2834.10	2834.10	2286.66	2099.56	1926.86	1722.05
225.0	3335.61	2988.54	2740.00	2510.29	2303.26	2067.46	1893.65	1727.03	1570.94
270.0	3697.62	3371.03	3016.77	2828.57	2828.57	2312.12	2072.99	1902.50	1741.98
315.0	3335.05	3046.66	2787.61	2494.23	2284.44	2097.35	1884.79	1723.71	1531.63
360.0	2937.62	2689.63	2459.91	2207.50	2024.83	1853.24	1689.95	1495.65	1084.32

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1084.32	1049.78	884.27	765.54	658.04	537.93	454.23	364.67	304.11
45.0	1355.61	1164.64	1021.83	888.98	771.08	640.44	548.55	465.52	374.74
90.0	1084.60	1014.30	882.61	764.93	630.59	534.22	449.19	374.91	297.80
135.0	1346.20	1198.41	1055.59	891.19	772.18	661.48	535.27	447.26	369.76
180.0	1564.29	1408.75	1253.76	1066.66	924.96	797.65	653.73	551.32	461.10
225.0	1261.51	1078.84	1078.84	938.35	782.64	671.61	547.39	460.49	384.04
270.0	1548.79	1397.68	1246.56	1098.77	956.51	797.65	685.28	561.29	473.83
315.0	1266.49	1082.22	1082.22	908.85	783.14	671.38	571.25	461.43	385.37
360.0	1084.32	1049.78	884.27	765.54	658.04	537.93	454.23	364.67	304.11

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	254.41	212.61	169.66	142.81	120.84	103.57	87.57	78.05	70.80
45.0	312.75	285.07	285.07	168.27	140.82	114.80	99.36	87.46	78.60
90.0	249.09	199.49	167.56	142.54	116.96	101.02	88.79	79.65	71.02
135.0	304.44	289.50	225.90	157.48	132.57	109.93	96.37	85.74	77.33
180.0	363.67	300.02	285.62	224.24	157.43	132.41	113.25	94.99	83.81
225.0	304.11	252.47	210.18	168.72	142.92	122.55	106.00	92.61	80.21
270.0	379.17	314.96	287.29	287.29	171.71	145.30	124.10	106.78	93.10
315.0	321.00	267.30	213.06	178.35	150.29	122.05	104.45	88.12	78.71
360.0	254.41	212.61	169.66	142.81	120.84	103.57	87.57	78.05	70.80

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	65.15	59.45	55.74	51.87	49.26	47.05	44.78	43.12	41.79
45.0	70.08	64.82	60.34	56.46	52.42	49.71	47.38	45.06	43.56
90.0	65.59	61.00	57.01	52.92	50.15	47.66	45.22	43.56	42.18
135.0	68.80	63.66	58.18	54.52	51.37	47.99	45.72	43.90	42.23
180.0	75.17	67.03	62.16	57.96	54.52	50.59	48.05	45.78	43.40
225.0	72.96	67.31	61.61	57.73	54.36	50.81	48.38	45.83	44.12
270.0	80.87	73.79	68.20	62.49	58.62	55.30	51.70	49.26	46.66
315.0	71.63	66.15	60.56	56.79	53.64	50.81	47.71	45.61	43.73
360.0	65.15	59.45	55.74	51.87	49.26	47.05	44.78	43.12	41.79

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	40.41	39.47	38.75	38.30	38.14	37.92	37.53	37.31	36.81
45.0	42.23	40.96	40.13	39.41	39.08	38.91	38.80	38.36	38.08
90.0	40.80	39.91	39.19	38.69	38.53	38.36	38.08	37.70	37.25
135.0	40.63	39.52	38.69	37.97	37.47	37.25	37.14	36.81	36.59
180.0	41.79	40.52	39.25	38.47	37.86	37.36	37.25	37.20	36.98
225.0	42.73	41.57	40.35	39.63	39.08	38.75	38.47	38.19	37.64
270.0	44.89	43.40	42.12	40.85	40.02	39.41	39.02	38.86	38.42
315.0	41.79	40.41	39.47	38.42	37.92	37.64	37.47	37.25	37.03
360.0	40.41	39.47	38.75	38.30	38.14	37.92	37.53	37.31	36.81

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	35.76	34.04	32.88	31.44	29.61	28.45	27.40	26.40	25.35
45.0	37.53	36.26	34.87	33.43	31.88	30.17	28.73	27.68	26.40
90.0	36.26	34.87	33.32	31.88	29.95	28.84	27.79	26.57	25.79
135.0	36.26	35.32	34.10	32.94	31.27	29.78	28.62	27.62	26.35
180.0	36.64	36.37	35.70	34.37	32.82	31.72	29.89	28.62	27.62
225.0	37.20	36.26	35.04	33.38	32.16	30.78	29.01	27.95	26.96
270.0	38.03	37.53	36.75	35.48	33.82	32.49	30.61	29.34	28.23
315.0	36.70	35.92	34.71	33.60	32.38	30.44	29.12	28.01	26.74
360.0	35.76	34.04	32.88	31.44	29.61	28.45	27.40	26.40	25.35

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	24.69	24.02	23.41	22.69	22.14	21.64	20.92	20.37	19.82
45.0	25.57	24.91	24.13	23.53	22.97	22.36	21.81	21.09	20.54
90.0	25.08	24.30	23.69	23.08	22.47	21.75	21.15	20.54	19.93
135.0	25.52	24.80	24.02	23.41	22.81	22.09	21.48	20.92	20.20
180.0	26.35	25.57	24.80	24.19	23.41	22.81	22.25	21.64	20.98
225.0	26.13	25.19	24.52	23.86	23.25	22.53	21.92	21.37	20.65
270.0	27.18	26.24	25.30	24.63	23.97	23.36	22.58	21.98	21.42
315.0	25.79	24.85	24.19	23.58	22.81	22.25	21.64	21.09	20.37
360.0	24.69	24.02	23.41	22.69	22.14	21.64	20.92	20.37	19.82

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	19.21	18.82	18.38	17.93	17.44	16.99	16.61	16.11	16.16
45.0	19.98	19.32	18.71	18.16	17.66	17.16	16.77	16.55	16.05
90.0	19.21	18.60	18.10	17.60	17.27	16.83	16.44	15.94	16.11
135.0	19.71	19.04	18.49	17.99	17.55	17.10	16.83	16.33	15.94
180.0	20.43	19.82	19.21	18.65	18.21	17.66	17.21	16.94	16.50
225.0	20.09	19.48	18.93	18.38	17.82	17.38	17.05	16.66	16.38
270.0	20.70	20.09	19.37	18.88	18.27	17.77	17.33	16.94	16.50
315.0	19.87	19.26	18.76	18.21	17.82	17.33	16.94	16.50	16.11
360.0	19.21	18.82	18.38	17.93	17.44	16.99	16.61	16.11	16.16

Intensity data(cd)

C/γ(°)	90.0
0.0	16.11
45.0	16.11
90.0	16.00
135.0	16.05
180.0	16.11
225.0	16.00
270.0	16.11
315.0	15.83
360.0	16.11