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NATA

Client:
LumCAT: 2-2646-L
Luminaire: 92.70.411.00
Report No: 20231019-B007
Ballast type: AC

Test No: 20231019-C007	Voltage(V): 34.190
LampCAT: NICHIA NFCWJ120B-V3	Current(A): 0.577
Lamp flux(lm): 2611.4	Power (W): 19.727
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2400.01, Efficiency(%): 91.91% , Luminous Efficacy(lm/W): 121.66
Central intensity(cd): 4185.147, Maximum intensity(cd): 4185.147
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=46.6
[C90/270]Total=46.6
Field angle(10%Imax): [C0/180]Total=68.0
[C90/270]Total=68.0
Maximum s/h(1/2): C0_180=0.74 C90_270=0.74
Maximum s/h(1/4): C0_180=0.71 C90_270=0.71
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.91%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.154%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4185.147	0.000	0	0.00%	0.00%
1.0	4176.706	4.001	4.001	0.15%	0.17%
2.0	4148.060	11.948	15.949	0.46%	0.66%
3.0	4102.601	19.733	35.682	0.76%	1.49%
4.0	4049.116	27.286	62.969	1.04%	2.62%
5.0	3986.013	34.567	97.535	1.32%	4.06%
6.0	3921.872	41.558	139.093	1.59%	5.80%
7.0	3845.276	48.211	187.304	1.85%	7.80%
8.0	3777.330	54.554	241.858	2.09%	10.08%
9.0	3711.182	60.690	302.548	2.32%	12.61%
10.0	3638.254	66.510	369.058	2.55%	15.38%
11.0	3555.569	71.881	440.939	2.75%	18.37%
12.0	3477.867	76.886	517.824	2.94%	21.58%
13.0	3395.113	81.565	599.389	3.12%	24.97%
14.0	3302.811	85.733	685.122	3.28%	28.55%
15.0	3202.413	89.307	774.429	3.42%	32.27%
16.0	3095.097	92.276	866.705	3.53%	36.11%
17.0	2987.365	94.720	961.425	3.63%	40.06%
18.0	2868.354	96.548	1057.973	3.70%	44.08%
19.0	2738.827	97.553	1155.527	3.74%	48.15%
20.0	2593.731	97.601	1253.127	3.74%	52.21%
21.0	2451.265	96.874	1350.001	3.71%	56.25%
22.0	2306.377	95.607	1445.608	3.66%	60.23%
23.0	2142.115	93.341	1538.95	3.57%	64.12%
24.0	1974.601	90.006	1628.956	3.45%	67.87%
25.0	1812.692	86.115	1715.07	3.30%	71.46%
26.0	1606.002	80.699	1795.769	3.09%	74.82%
27.0	1420.671	74.048	1869.817	2.84%	77.91%
28.0	1215.710	66.748	1936.565	2.56%	80.69%
29.0	1090.245	60.330	1996.895	2.31%	83.20%
30.0	944.838	54.947	2051.842	2.10%	85.49%
31.0	780.202	48.005	2099.847	1.84%	87.49%
32.0	642.455	40.757	2140.605	1.56%	89.19%
33.0	518.573	34.204	2174.809	1.31%	90.62%
34.0	420.590	28.422	2203.231	1.09%	91.80%
35.0	332.661	23.393	2226.624	0.90%	92.78%
36.0	274.727	19.339	2245.964	0.74%	93.58%
37.0	231.461	16.509	2262.473	0.63%	94.27%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	176.723	13.625	2276.097	0.52%	94.84%
39.0	132.198	10.544	2286.642	0.40%	95.28%
40.0	100.757	8.125	2294.766	0.31%	95.61%
41.0	81.148	6.478	2301.244	0.25%	95.88%
42.0	68.431	5.434	2306.678	0.21%	96.11%
43.0	58.267	4.693	2311.371	0.18%	96.31%
44.0	50.870	4.119	2315.491	0.16%	96.48%
45.0	45.757	3.713	2319.204	0.14%	96.63%
46.0	41.460	3.411	2322.615	0.13%	96.78%
47.0	37.834	3.154	2325.769	0.12%	96.91%
48.0	34.942	2.942	2328.711	0.11%	97.03%
49.0	32.479	2.769	2331.479	0.11%	97.14%
50.0	30.486	2.625	2334.105	0.10%	97.25%
51.0	28.680	2.503	2336.608	0.10%	97.36%
52.0	27.172	2.397	2339.004	0.09%	97.46%
53.0	25.795	2.304	2341.308	0.09%	97.55%
54.0	24.708	2.226	2343.534	0.09%	97.65%
55.0	23.678	2.160	2345.694	0.08%	97.74%
56.0	22.764	2.099	2347.793	0.08%	97.82%
57.0	21.927	2.043	2349.836	0.08%	97.91%
58.0	21.228	1.996	2351.832	0.08%	97.99%
59.0	20.612	1.956	2353.788	0.07%	98.07%
60.0	19.955	1.917	2355.704	0.07%	98.15%
61.0	19.415	1.879	2357.583	0.07%	98.23%
62.0	18.917	1.847	2359.43	0.07%	98.31%
63.0	18.474	1.819	2361.249	0.07%	98.38%
64.0	17.997	1.790	2363.039	0.07%	98.46%
65.0	17.582	1.761	2364.799	0.07%	98.53%
66.0	17.173	1.734	2366.533	0.07%	98.61%
67.0	16.800	1.708	2368.242	0.07%	98.68%
68.0	16.433	1.683	2369.925	0.06%	98.75%
69.0	16.073	1.658	2371.583	0.06%	98.82%
70.0	15.714	1.633	2373.216	0.06%	98.88%
71.0	15.354	1.606	2374.822	0.06%	98.95%
72.0	15.001	1.578	2376.4	0.06%	99.02%
73.0	14.648	1.550	2377.95	0.06%	99.08%
74.0	14.295	1.522	2379.472	0.06%	99.14%
75.0	13.963	1.493	2380.965	0.06%	99.21%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.659	1.466	2382.431	0.06%	99.27%
77.0	13.292	1.437	2383.868	0.06%	99.33%
78.0	12.967	1.406	2385.274	0.05%	99.39%
79.0	12.662	1.377	2386.651	0.05%	99.44%
80.0	12.344	1.348	2387.999	0.05%	99.50%
81.0	12.039	1.319	2389.318	0.05%	99.55%
82.0	11.735	1.289	2390.607	0.05%	99.61%
83.0	11.444	1.260	2391.867	0.05%	99.66%
84.0	11.188	1.233	2393.1	0.05%	99.71%
85.0	10.932	1.207	2394.307	0.05%	99.76%
86.0	10.669	1.181	2395.488	0.05%	99.81%
87.0	10.455	1.156	2396.644	0.04%	99.86%
88.0	10.282	1.136	2397.78	0.04%	99.91%
89.0	10.171	1.121	2398.901	0.04%	99.95%
90.0	10.109	1.112	2400.013	0.04%	100.00%

Zonal flux distribution table

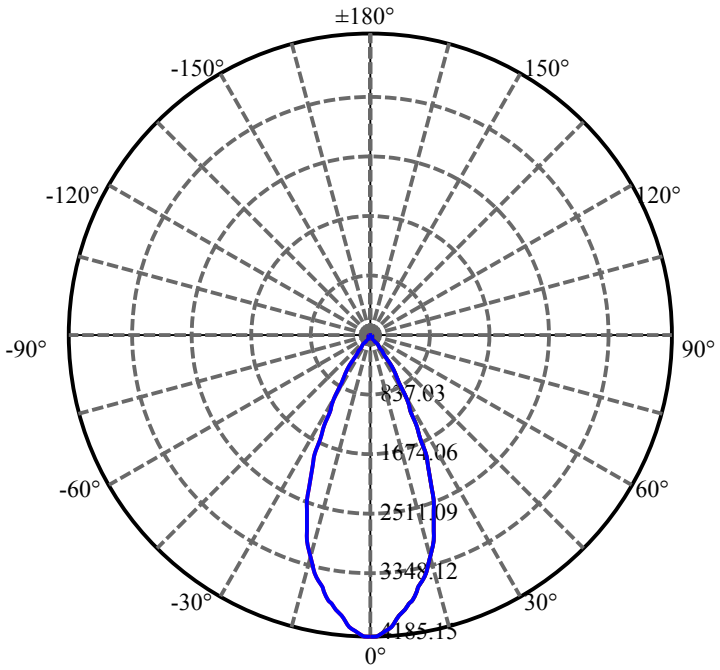
ZONAL LUMEN SUMMARY

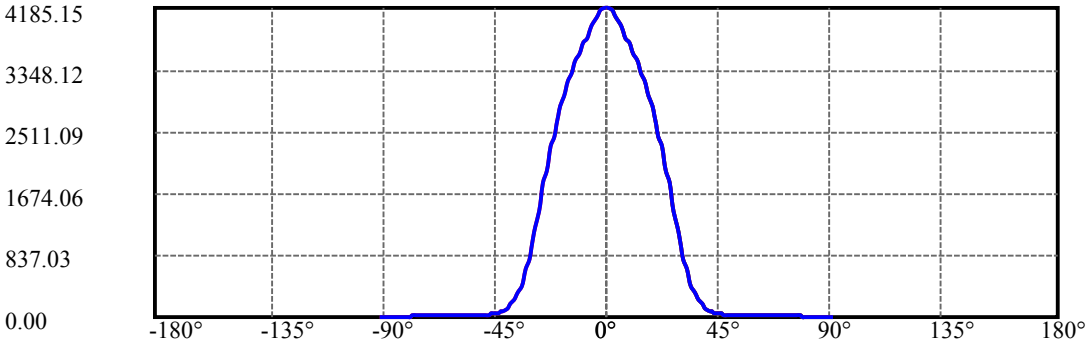
Zone	Lumens	%Lamp	%Fixt
0-30	2051.84	78.57%	85.49%
0-40	2294.77	87.88%	95.61%
0-60	2355.70	90.21%	98.15%
0-90	2398.90	91.86%	99.95%
0-120	2398.90	91.86%	99.95%
0-180	2400.01	91.91%	100.00%
60-90	43.20	1.65%	1.80%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.75	1920.01	73.52%	80.00%

ZONAL LUMEN SUMMARY

0-10	369.06
10-20	884.07
20-30	798.71
30-40	242.92
40-50	39.34
50-60	21.60
60-70	17.51
70-80	14.78
80-90	10.90
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):

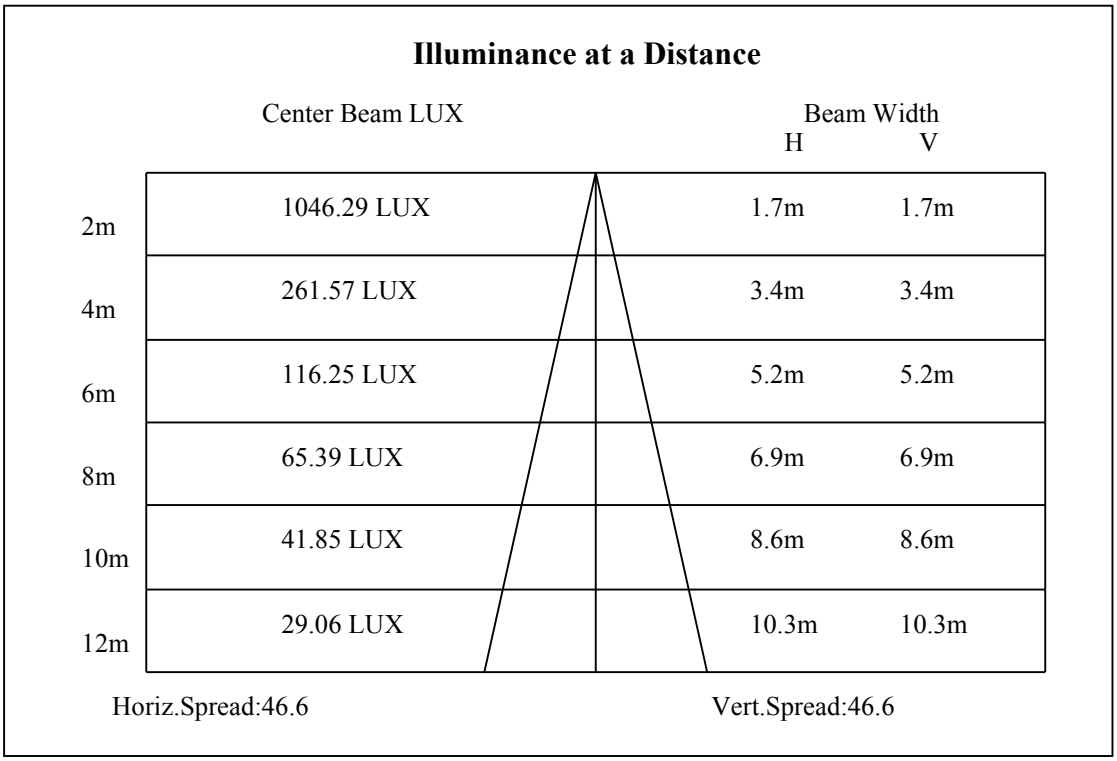
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:34.0 Right:34.0
:C90/270Left:34.0 Right:34.0

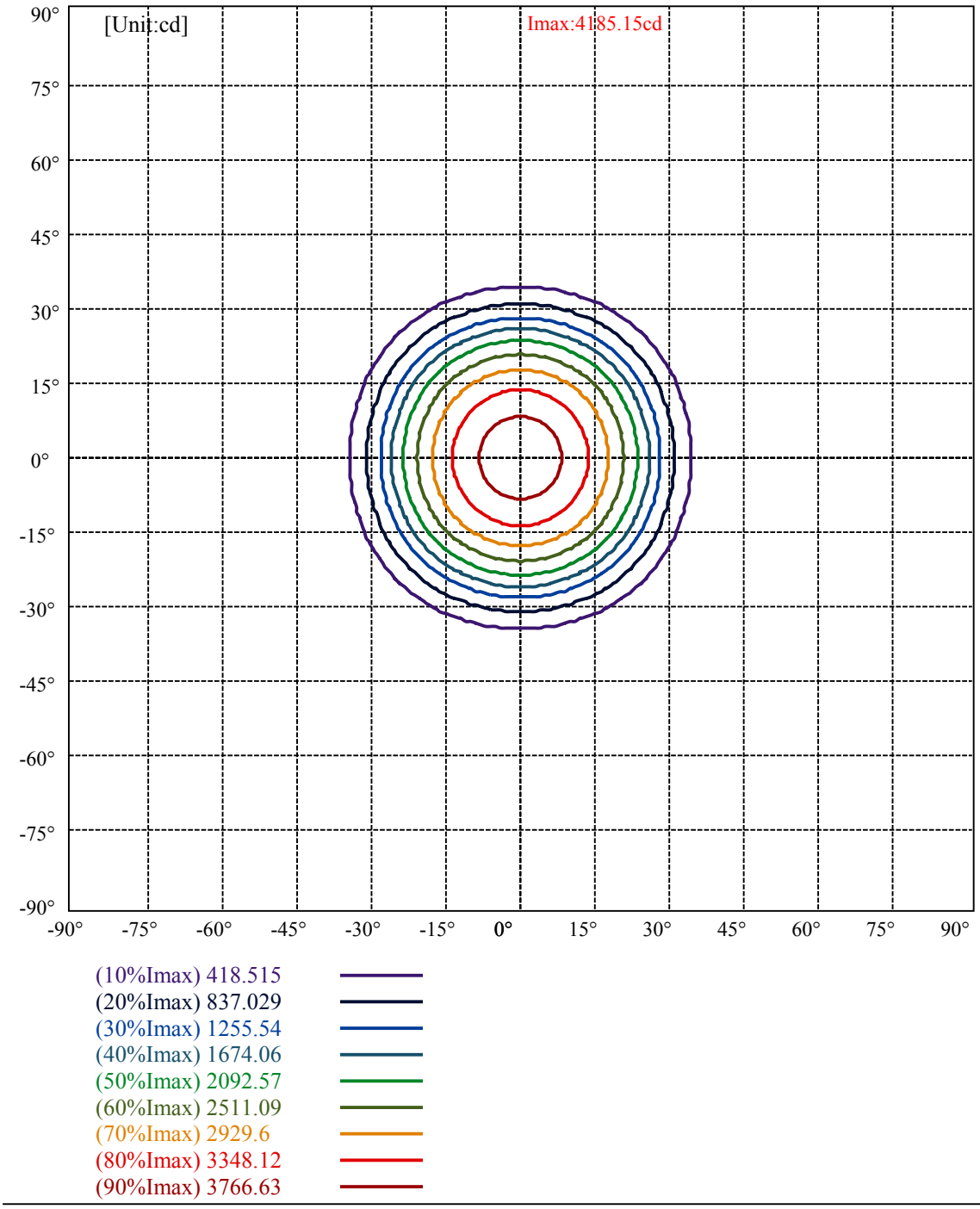
Beam Angle(50%Imax):C0/180Left:23.3 Right:23.3
:C90/270Left:23.3 Right:23.3

Lux distance Curve



Equipment: GMS1980 Date: 2023/10/19 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

ISO-Intensity(V-H)

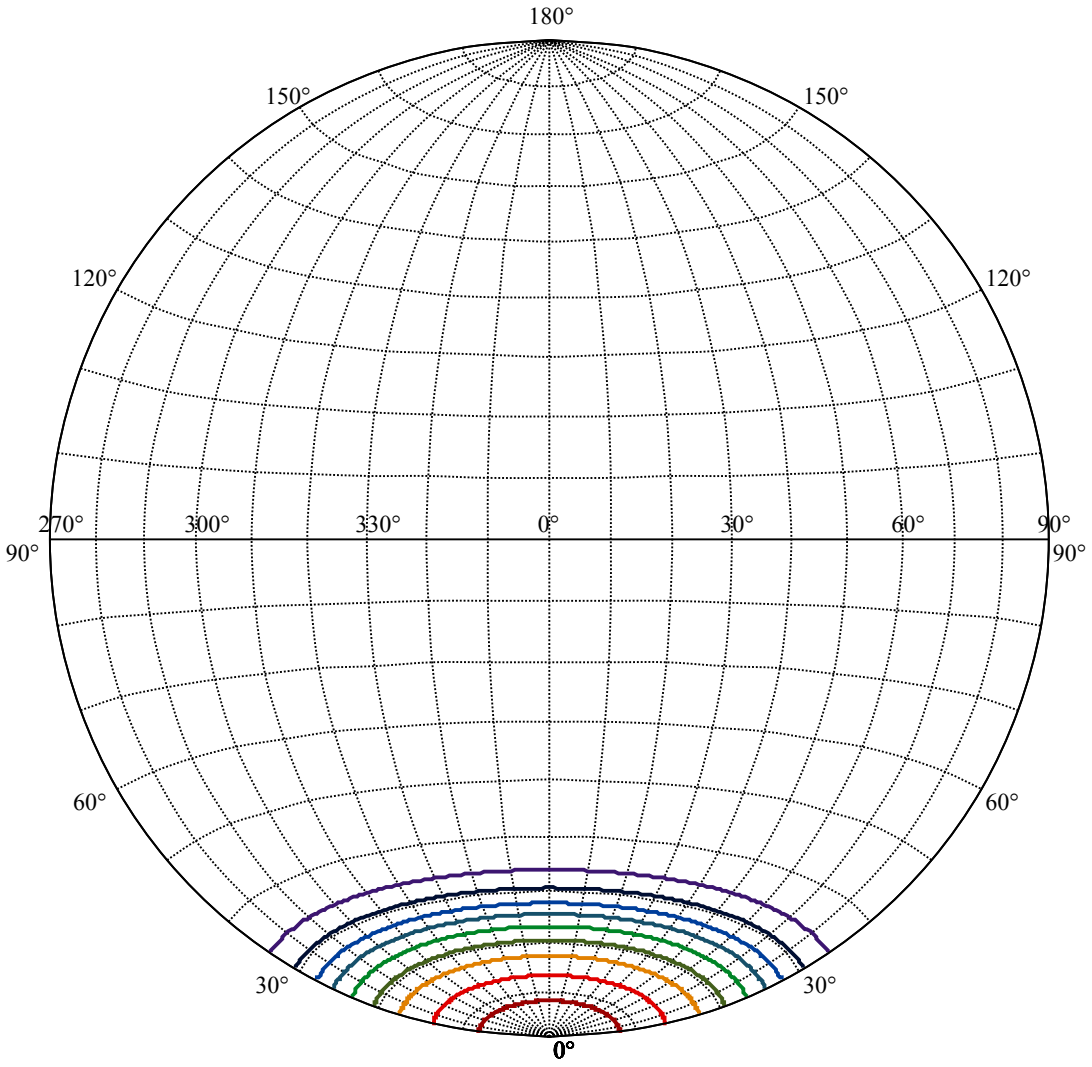


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/19
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



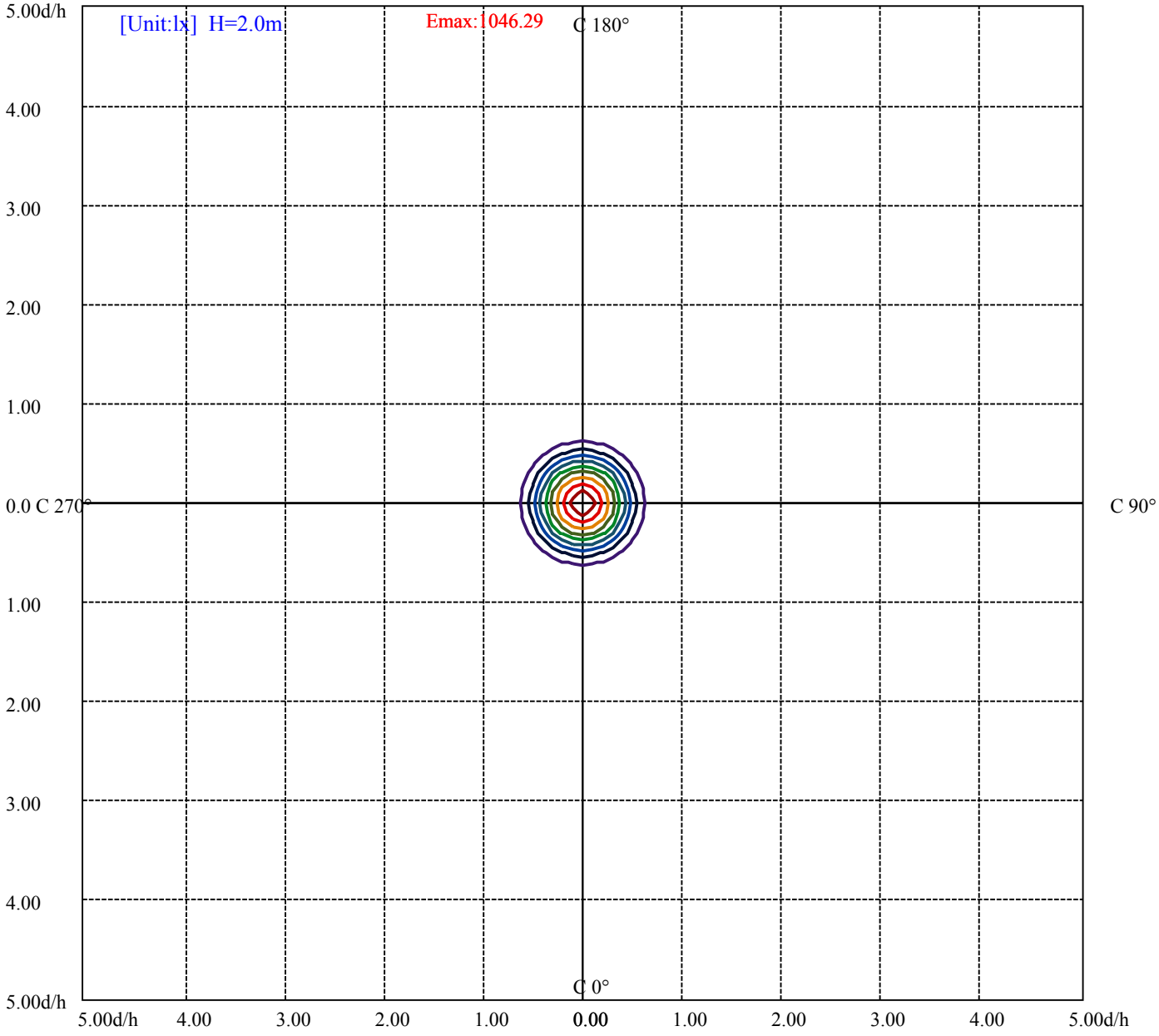
House [Unit:cd] Road

Imax:4185.15

(10%Imax) 418.515
(20%Imax) 837.029
(30%Imax) 1255.54
(40%Imax) 1674.06
(50%Imax) 2092.57
(60%Imax) 2511.09
(70%Imax) 2929.6
(80%Imax) 3348.12
(90%Imax) 3766.63

Equipment: GMS1980 Date: 2023/10/19 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

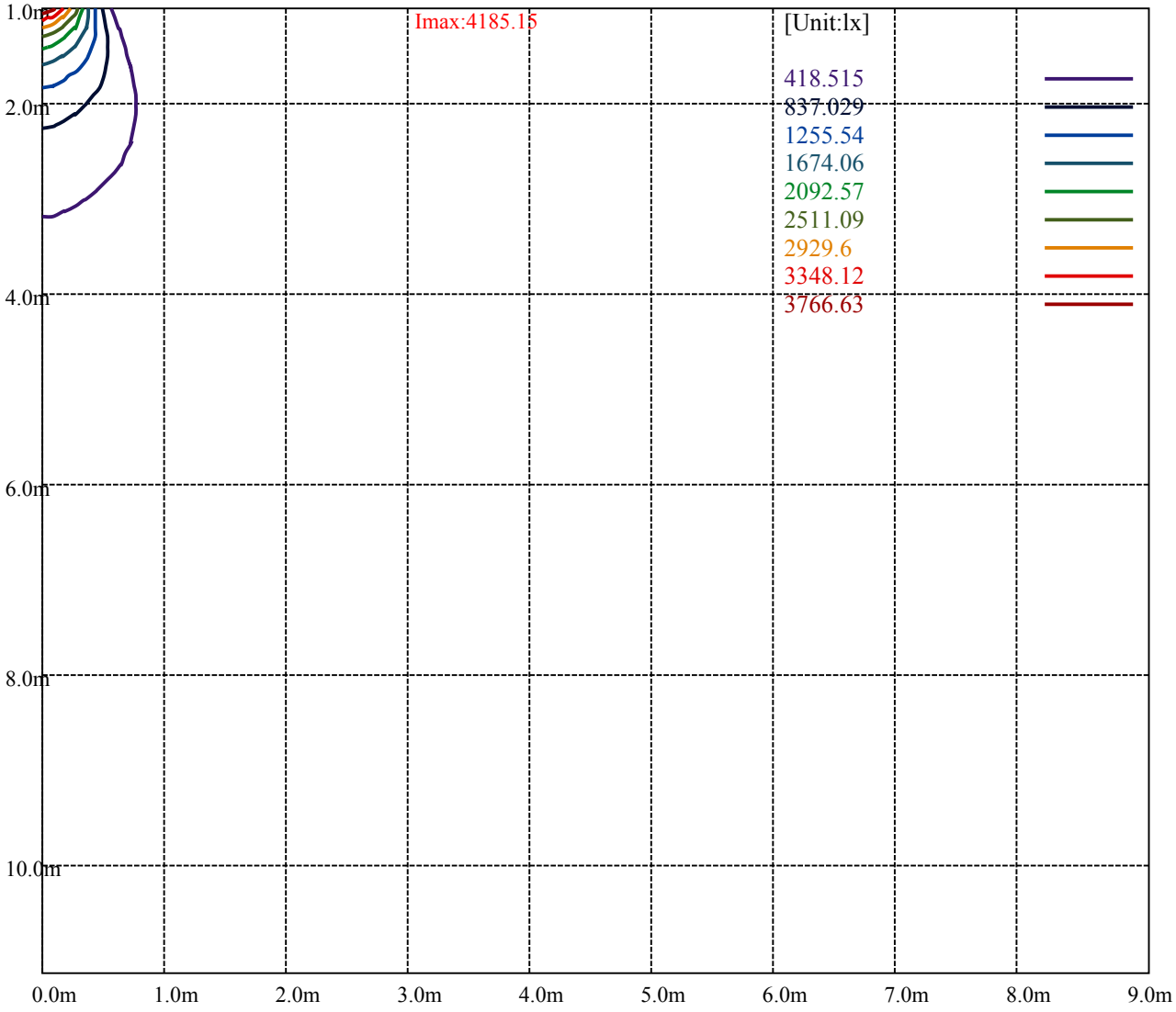
ISO illuminance diagram



(10%Emax) 104.6288
(20%Emax) 209.2572
(30%Emax) 313.885
(40%Emax) 418.515
(50%Emax) 523.1425
(60%Emax) 627.7725
(70%Emax) 732.4
(80%Emax) 837.03
(90%Emax) 941.6575

Equipment: GMS1980
Temperature(°C): 0.0
Date: 2023/10/19
Humidity(%): 0.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/19
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

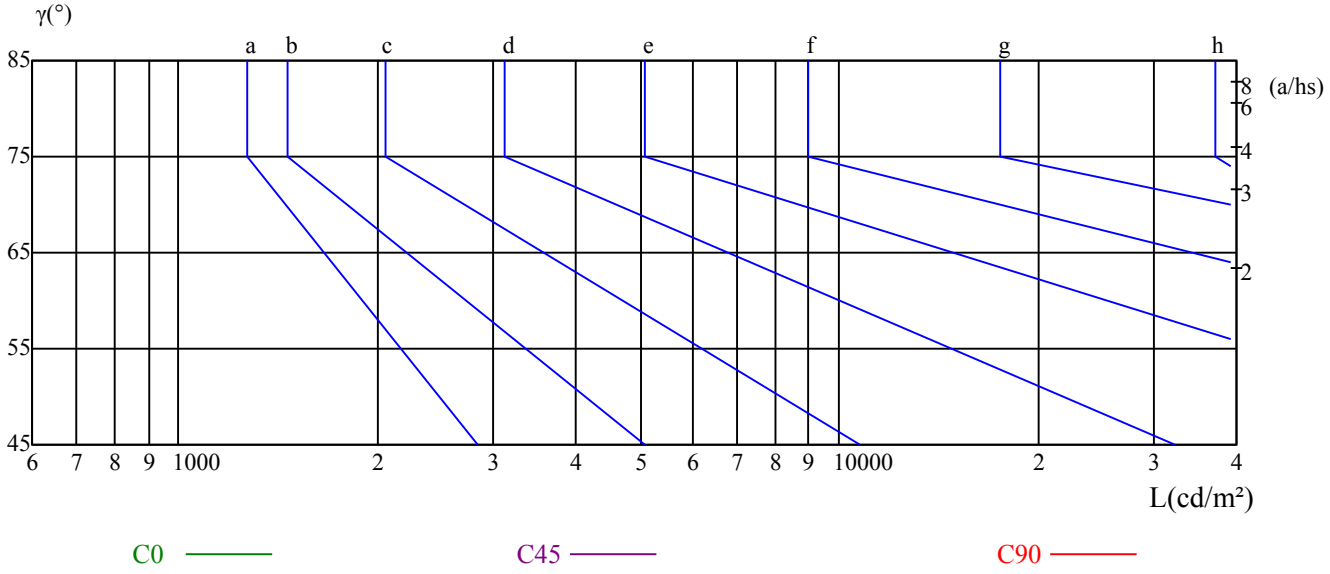
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

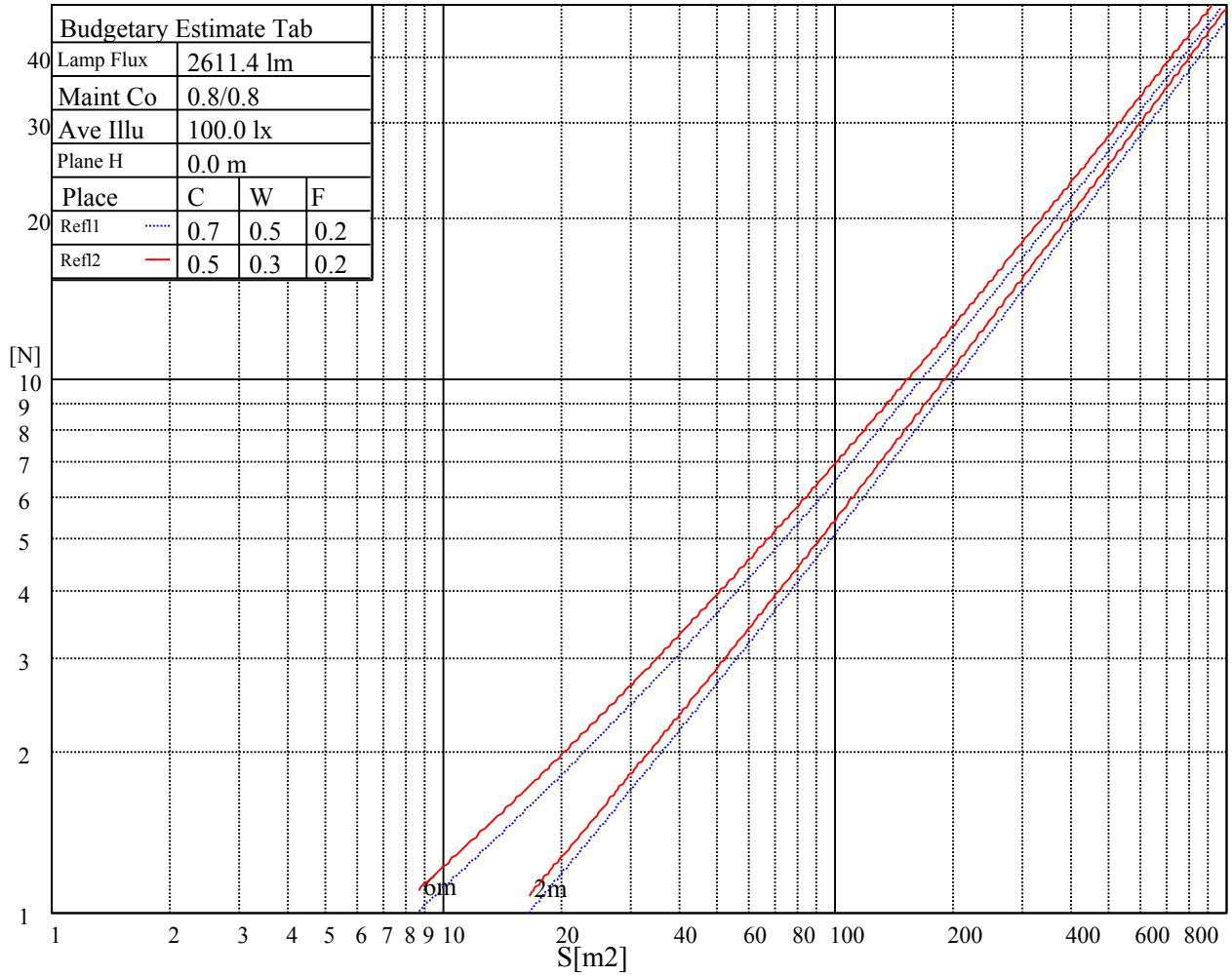
Luminance Limitting Curve



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

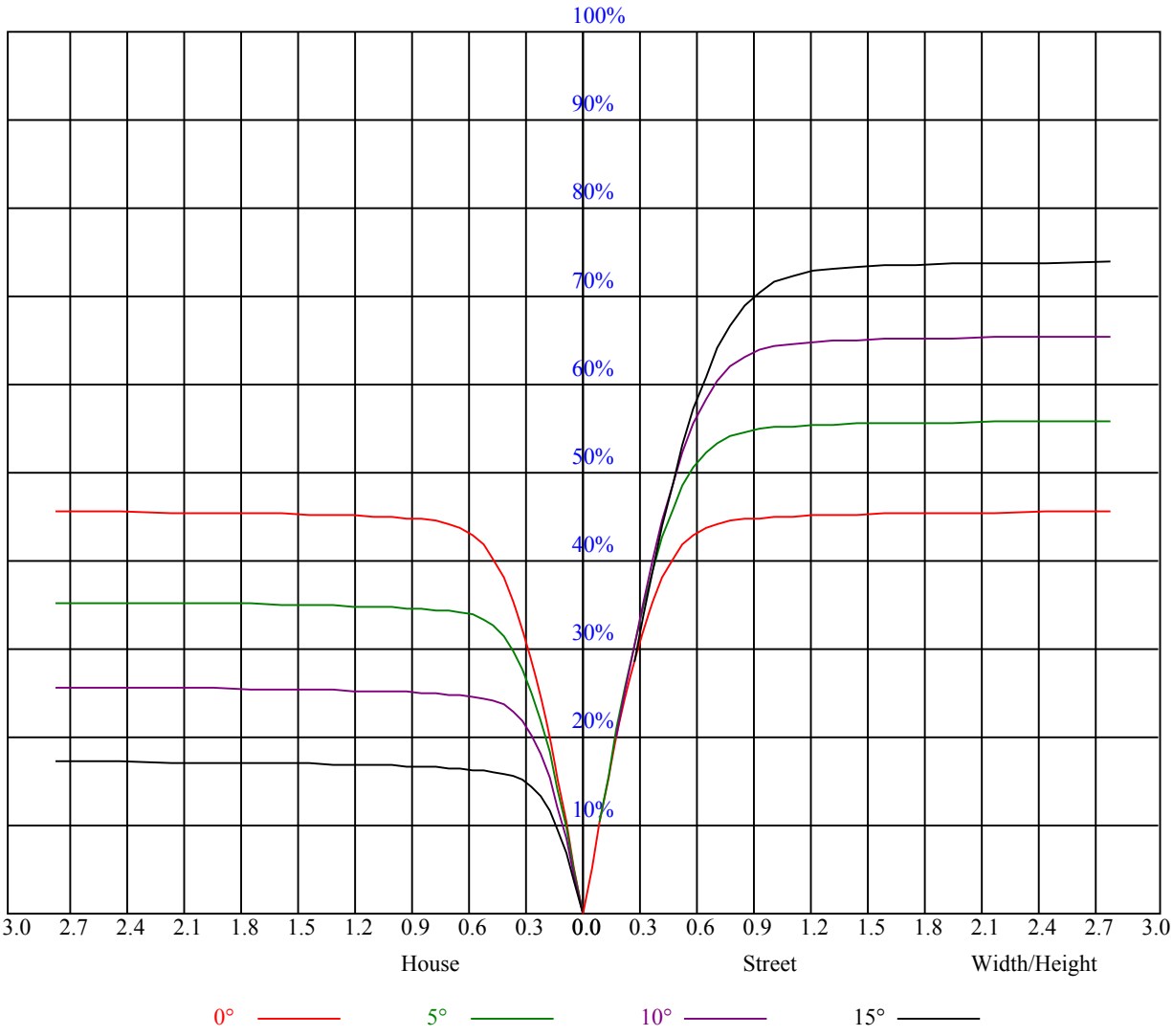


Equipment: GMS1980 Date: 2023/10/19 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.09	1.09	1.09	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	1.02	1.00	0.98	1.00	0.98	0.96	0.96	0.95	0.93	0.93	0.92	0.91	0.90	0.89	0.88	0.86
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.86	0.89	0.86	0.85	0.86	0.84	0.83	0.81
3	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.83	0.81	0.84	0.82	0.79	0.82	0.80	0.78	0.77
4	0.85	0.81	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.79	0.76	0.74	0.73
5	0.81	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.72	0.70	0.69
6	0.77	0.72	0.68	0.76	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.65
7	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
8	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.59
9	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.56
10	0.63	0.58	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.54

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/10/19	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	4170.89	4165.36	4117.20	4044.13	3988.23	3922.36	3853.16	3800.58	3718.65
45.0	4198.57	4176.43	4136.57	4093.40	4029.74	3953.35	3883.61	3798.36	3740.80
90.0	4168.13	4115.54	4065.17	3994.87	3922.36	3850.40	3781.20	3703.71	3642.82
135.0	4203.00	4179.20	4121.63	4077.90	4000.40	3934.53	3874.20	3777.33	3716.99
180.0	4170.89	4201.89	4201.89	4150.97	4107.79	4054.65	3993.76	3917.93	3842.09
225.0	4198.57	4195.80	4160.93	4132.70	4090.08	4023.65	3949.48	3873.09	3812.76
270.0	4168.13	4201.34	4200.78	4177.54	4153.73	4109.45	4065.17	3988.78	3919.03
315.0	4203.00	4178.09	4180.30	4149.31	4100.59	4039.71	3974.39	3902.43	3825.49
360.0	4170.89	4165.36	4117.20	4044.13	3988.23	3922.36	3853.16	3800.58	3718.65

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3645.59	3566.99	3482.85	3400.37	3295.20	3193.35	3077.66	2923.78	2803.11
45.0	3681.57	3615.70	3518.83	3450.19	3375.46	3290.77	3171.76	3076.55	2974.15
90.0	3573.07	3502.78	3419.75	3350.55	3273.06	3183.94	3072.68	2978.02	2843.51
135.0	3645.03	3580.82	3500.56	3409.23	3333.39	3255.90	3165.67	3045.00	2938.72
180.0	3774.01	3702.05	3630.09	3549.83	3473.99	3381.55	3302.40	3220.47	3118.07
225.0	3750.21	3657.21	3581.38	3507.76	3415.32	3330.07	3219.92	3124.71	3024.52
270.0	3861.47	3795.60	3713.67	3634.52	3558.68	3459.05	3374.36	3259.22	3166.78
315.0	3758.51	3684.89	3597.43	3520.49	3435.80	3327.86	3234.86	3133.01	3030.06
360.0	3645.59	3566.99	3482.85	3400.37	3295.20	3193.35	3077.66	2923.78	2803.11

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2671.92	2530.21	2349.76	2204.18	2051.96	1893.65	1689.95	1524.99	1079.28
45.0	2856.25	2701.81	2570.62	2396.26	2256.21	2106.20	1907.49	1746.96	1580.35
90.0	2723.95	2601.62	2436.11	2303.82	2160.45	1966.71	1807.85	1649.54	1480.16
135.0	2827.46	2709.01	2546.82	2417.29	2277.25	2103.99	1951.77	1795.67	1594.74
180.0	2990.76	2866.21	2742.77	2580.03	2446.08	2281.12	2142.74	1993.84	1841.06
225.0	2917.69	2773.77	2645.90	2515.82	2386.85	2212.48	2065.24	1914.13	1717.07
270.0	3067.70	2960.31	2824.14	2695.72	2556.78	2411.20	2227.43	2069.67	1902.50
315.0	2891.12	2767.68	2633.72	2497.00	2315.44	2161.56	2004.35	1806.74	1652.86
360.0	2671.92	2530.21	2349.76	2204.18	2051.96	1893.65	1689.95	1524.99	1079.28

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1079.28	1004.72	860.58	696.74	578.94	475.60	366.50	294.09	233.04
45.0	1410.41	1196.74	1030.13	874.03	731.77	576.78	474.38	387.48	297.80
90.0	1089.64	1089.64	924.74	773.73	607.95	495.36	400.59	303.78	240.84
135.0	1424.80	1256.53	1053.38	898.94	755.58	627.71	490.99	400.21	323.82
180.0	1652.30	1489.57	1325.17	1165.75	972.56	826.43	691.37	573.46	450.02
225.0	1557.10	1084.49	1084.49	1003.51	844.53	668.34	548.11	448.47	345.68
270.0	1707.11	1531.63	1371.11	1191.76	978.65	826.98	647.08	523.09	433.97
315.0	1444.73	1072.37	1072.37	954.24	771.63	642.43	529.57	434.14	336.11
360.0	1079.28	1004.72	860.58	696.74	578.94	475.60	366.50	294.09	233.04

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	183.88	136.89	108.16	87.02	71.90	59.06	52.14	46.72	41.46
45.0	281.75	281.75	138.27	111.21	90.61	72.51	62.27	54.69	48.88
90.0	191.86	145.64	117.35	96.20	76.61	65.65	57.51	51.48	45.72
135.0	290.05	290.05	151.17	120.50	92.44	76.22	64.82	54.69	48.77
180.0	366.99	279.54	279.54	209.85	133.73	100.19	81.04	64.93	56.18
225.0	278.76	223.35	178.35	134.84	108.49	88.46	73.56	60.28	52.97
270.0	334.34	279.54	279.54	169.16	128.70	106.22	87.90	74.45	62.11
315.0	270.18	214.94	161.41	128.81	103.57	80.87	68.20	58.90	50.87
360.0	183.88	136.89	108.16	87.02	71.90	59.06	52.14	46.72	41.46

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	38.08	34.54	32.22	30.22	28.17	26.74	25.52	24.41	23.30
45.0	43.18	39.58	36.59	34.04	31.39	29.61	28.01	26.29	25.13
90.0	41.96	38.86	36.09	33.16	31.16	29.56	27.73	26.51	25.13
135.0	44.12	39.47	36.48	33.88	31.16	29.45	27.90	26.57	25.19
180.0	49.93	45.06	40.19	37.09	34.49	32.16	29.78	28.17	26.74
225.0	47.60	42.35	38.91	35.43	33.05	31.05	29.39	27.57	26.24
270.0	55.24	49.98	44.50	40.74	37.70	34.54	32.44	30.61	28.62
315.0	45.94	41.85	37.70	34.98	32.71	30.78	28.67	27.23	26.02
360.0	38.08	34.54	32.22	30.22	28.17	26.74	25.52	24.41	23.30

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.47	21.70	21.03	20.37	19.82	19.32	18.76	18.32	17.93
45.0	24.19	23.03	22.20	21.31	20.65	20.04	19.48	18.93	18.49
90.0	24.13	23.19	22.42	21.48	20.81	20.31	19.60	19.10	18.65
135.0	24.30	23.36	22.36	21.75	21.09	20.43	19.87	19.37	18.82
180.0	25.24	24.24	23.30	22.36	21.70	21.03	20.37	19.87	19.37
225.0	25.08	24.13	23.03	22.25	21.59	20.92	20.15	19.65	19.04
270.0	27.29	26.02	24.96	23.80	22.92	22.20	21.48	20.70	20.09
315.0	24.96	23.75	22.81	22.09	21.26	20.65	19.93	19.37	18.93
360.0	22.47	21.70	21.03	20.37	19.82	19.32	18.76	18.32	17.93

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.49	17.10	16.77	16.38	16.05	15.72	15.39	15.00	14.72
45.0	18.10	17.71	17.21	16.88	16.55	16.16	15.78	15.50	15.06
90.0	18.27	17.77	17.38	16.99	16.55	16.22	15.83	15.39	15.06
135.0	18.38	18.05	17.60	17.16	16.83	16.50	16.16	15.78	15.44
180.0	18.93	18.38	17.99	17.60	17.21	16.83	16.50	16.16	15.72
225.0	18.60	18.16	17.66	17.27	16.94	16.55	16.16	15.83	15.50
270.0	19.60	18.93	18.49	17.93	17.49	17.10	16.72	16.33	15.94
315.0	18.43	17.88	17.55	17.16	16.77	16.38	16.05	15.72	15.39
360.0	17.49	17.10	16.77	16.38	16.05	15.72	15.39	15.00	14.72

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.39	14.12	13.73	13.45	13.17	12.79	12.51	12.18	11.90
45.0	14.72	14.39	14.06	13.73	13.45	13.17	12.79	12.51	12.23
90.0	14.72	14.34	14.00	13.67	13.40	13.01	12.68	12.40	12.07
135.0	15.11	14.72	14.39	14.00	13.67	13.40	13.06	12.73	12.45
180.0	15.39	15.00	14.72	14.39	14.12	13.67	13.40	13.12	12.79
225.0	15.17	14.78	14.45	14.12	13.67	13.40	13.06	12.68	12.40
270.0	15.55	15.17	14.78	14.45	14.17	13.67	13.34	13.06	12.62
315.0	14.95	14.67	14.23	13.89	13.62	13.23	12.90	12.62	12.29
360.0	14.39	14.12	13.73	13.45	13.17	12.79	12.51	12.18	11.90

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.68	11.40	11.18	10.96	10.79	10.46	10.30	10.07	10.19
45.0	11.90	11.68	11.35	11.13	10.85	10.57	10.41	10.19	10.07
90.0	11.73	11.40	11.13	10.96	10.68	10.41	10.24	10.13	10.07
135.0	12.12	11.79	11.46	11.18	10.85	10.68	10.46	10.30	10.07
180.0	12.45	12.12	11.79	11.51	11.29	10.96	10.68	10.57	10.41
225.0	12.07	11.79	11.51	11.24	10.96	10.74	10.52	10.30	10.19
270.0	12.34	12.01	11.73	11.40	11.13	10.85	10.57	10.41	10.24
315.0	12.01	11.68	11.40	11.13	10.90	10.68	10.46	10.30	10.13
360.0	11.68	11.40	11.18	10.96	10.79	10.46	10.30	10.07	10.19

Intensity data(cd)

C/γ(°)	90.0
0.0	10.13
45.0	10.07
90.0	10.07
135.0	10.07
180.0	10.19
225.0	10.13
270.0	10.07
315.0	10.13
360.0	10.13