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NATA

LumCAT: 2-2642-L
Luminaire: 92.70.411.00
LampCAT: NICHIA NFDWJ130B-V3
Ballast type: AC

Report No: 20231023-B015	Voltage(V): 36.5100
Test No: 20231023-C015	Current(A): 0.5760
Number of Lamps: 1	Power (W): 21.0290
Lamp flux(lm): 2810.0	PF: 0.0000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2606.58, Efficiency(%): 92.76% , Luminous Efficacy(lm/W): 123.95
Central intensity(cd): 4060.463, Maximum intensity(cd): 4060.463
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=48.6
[C90/270]Total=48.6
Field angle(10%Imax): [C0/180]Total=71.8
[C90/270]Total=71.8
Maximum s/h(1/2): C0_180=0.76 C90_270=0.76
Maximum s/h(1/4): C0_180=0.75 C90_270=0.75
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.76%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.847%

Equipment: GMS1980	Date: 2023/10/23	Operator: NT07
Temperature(°C): 0.0	Humidity(%): 0.0%	Distance(m): 7.44

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4060.463	0.000	0	0.00%	0.00%
1.0	4058.111	3.885	3.885	0.14%	0.15%
2.0	4053.613	11.643	15.527	0.41%	0.60%
3.0	4043.304	19.365	34.892	0.69%	1.34%
4.0	4024.622	27.006	61.898	0.96%	2.37%
5.0	3992.794	34.491	96.389	1.23%	3.70%
6.0	3944.013	41.710	138.099	1.48%	5.30%
7.0	3896.686	48.667	186.766	1.73%	7.17%
8.0	3825.556	55.267	242.033	1.97%	9.29%
9.0	3749.099	61.388	303.421	2.18%	11.64%
10.0	3661.848	67.066	370.487	2.39%	14.21%
11.0	3571.553	72.277	442.764	2.57%	16.99%
12.0	3463.267	76.901	519.665	2.74%	19.94%
13.0	3366.122	81.048	600.712	2.88%	23.05%
14.0	3263.233	84.855	685.567	3.02%	26.30%
15.0	3160.137	88.183	773.75	3.14%	29.68%
16.0	3048.254	90.970	864.721	3.24%	33.17%
17.0	2941.975	93.284	958.005	3.32%	36.75%
18.0	2826.286	95.106	1053.111	3.38%	40.40%
19.0	2709.905	96.318	1149.429	3.43%	44.10%
20.0	2587.020	96.948	1246.377	3.45%	47.82%
21.0	2456.939	96.854	1343.232	3.45%	51.53%
22.0	2328.172	96.159	1439.39	3.42%	55.22%
23.0	2201.482	95.044	1534.435	3.38%	58.87%
24.0	2066.903	93.322	1627.757	3.32%	62.45%
25.0	1937.722	91.056	1718.814	3.24%	65.94%
26.0	1802.659	88.292	1807.106	3.14%	69.33%
27.0	1664.414	84.823	1891.928	3.02%	72.58%
28.0	1475.222	79.489	1971.417	2.83%	75.63%
29.0	1265.826	71.714	2043.131	2.55%	78.38%
30.0	1186.248	66.206	2109.336	2.36%	80.92%
31.0	1052.473	62.300	2171.637	2.22%	83.31%
32.0	902.810	56.017	2227.653	1.99%	85.46%
33.0	754.124	48.814	2276.467	1.74%	87.34%
34.0	622.181	41.651	2318.118	1.48%	88.93%
35.0	502.043	34.914	2353.032	1.24%	90.27%
36.0	393.592	28.517	2381.55	1.01%	91.37%
37.0	303.850	22.747	2404.296	0.81%	92.24%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	244.566	18.305	2422.602	0.65%	92.94%
39.0	207.105	15.417	2438.018	0.55%	93.53%
40.0	162.214	12.881	2450.899	0.46%	94.03%
41.0	124.518	10.210	2461.109	0.36%	94.42%
42.0	110.493	8.538	2469.648	0.30%	94.75%
43.0	97.319	7.698	2477.346	0.27%	95.04%
44.0	87.922	6.992	2484.337	0.25%	95.31%
45.0	78.976	6.414	2490.751	0.23%	95.56%
46.0	71.641	5.890	2496.642	0.21%	95.78%
47.0	65.380	5.450	2502.091	0.19%	95.99%
48.0	59.623	5.053	2507.144	0.18%	96.19%
49.0	55.118	4.712	2511.856	0.17%	96.37%
50.0	50.718	4.413	2516.269	0.16%	96.54%
51.0	47.376	4.150	2520.419	0.15%	96.69%
52.0	44.324	3.935	2524.354	0.14%	96.85%
53.0	41.813	3.747	2528.101	0.13%	96.99%
54.0	39.529	3.585	2531.686	0.13%	97.13%
55.0	37.260	3.428	2535.114	0.12%	97.26%
56.0	35.489	3.287	2538.401	0.12%	97.38%
57.0	33.849	3.170	2541.572	0.11%	97.51%
58.0	32.327	3.060	2544.632	0.11%	97.62%
59.0	30.894	2.956	2547.587	0.11%	97.74%
60.0	29.628	2.859	2550.447	0.10%	97.85%
61.0	28.473	2.773	2553.219	0.10%	97.95%
62.0	27.310	2.688	2555.907	0.10%	98.06%
63.0	26.321	2.608	2558.516	0.09%	98.16%
64.0	25.359	2.536	2561.052	0.09%	98.25%
65.0	24.494	2.467	2563.519	0.09%	98.35%
66.0	23.650	2.402	2565.921	0.09%	98.44%
67.0	22.826	2.337	2568.258	0.08%	98.53%
68.0	22.058	2.274	2570.531	0.08%	98.62%
69.0	21.318	2.213	2572.744	0.08%	98.70%
70.0	20.605	2.153	2574.897	0.08%	98.78%
71.0	19.893	2.093	2576.991	0.07%	98.86%
72.0	19.249	2.035	2579.026	0.07%	98.94%
73.0	18.592	1.979	2581.005	0.07%	99.02%
74.0	17.955	1.921	2582.926	0.07%	99.09%
75.0	17.305	1.863	2584.789	0.07%	99.16%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.703	1.805	2586.594	0.06%	99.23%
77.0	16.129	1.750	2588.345	0.06%	99.30%
78.0	15.554	1.696	2590.041	0.06%	99.37%
79.0	14.952	1.639	2591.68	0.06%	99.43%
80.0	14.378	1.581	2593.261	0.06%	99.49%
81.0	13.845	1.526	2594.787	0.05%	99.55%
82.0	13.326	1.473	2596.261	0.05%	99.60%
83.0	12.863	1.424	2597.685	0.05%	99.66%
84.0	12.406	1.377	2599.061	0.05%	99.71%
85.0	12.067	1.336	2600.397	0.05%	99.76%
86.0	11.735	1.301	2601.698	0.05%	99.81%
87.0	11.410	1.267	2602.965	0.05%	99.86%
88.0	11.112	1.234	2604.198	0.04%	99.91%
89.0	10.808	1.201	2605.4	0.04%	99.95%
90.0	10.697	1.179	2606.579	0.04%	100.00%

Zonal flux distribution table

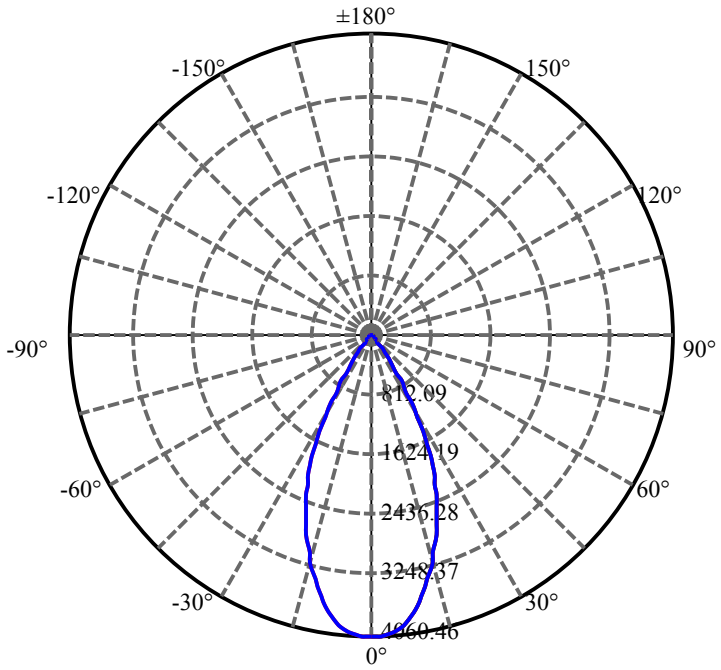
ZONAL LUMEN SUMMARY

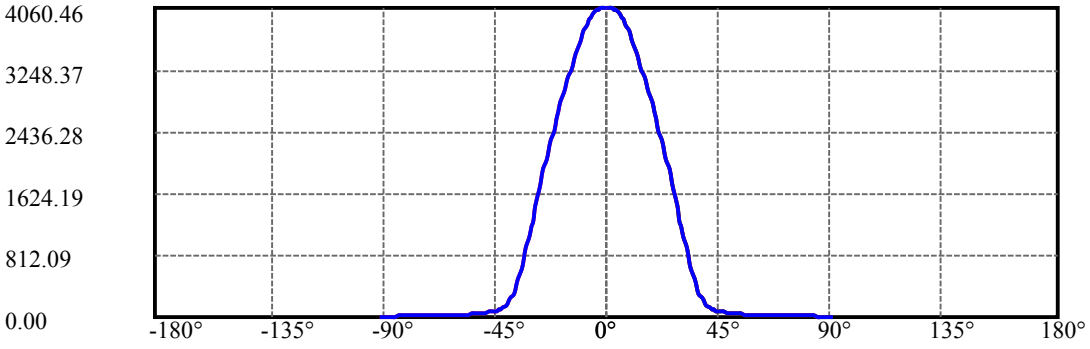
Zone	Lumens	%Lamp	%Fixt
0-30	2109.34	75.07%	80.92%
0-40	2450.90	87.22%	94.03%
0-60	2550.45	90.76%	97.85%
0-90	2605.40	92.72%	99.95%
0-120	2605.40	92.72%	99.95%
0-180	2606.58	92.76%	100.00%
60-90	54.95	1.96%	2.11%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.64	2085.26	74.21%	80.00%

ZONAL LUMEN SUMMARY

0-10	370.49
10-20	875.89
20-30	862.96
30-40	341.56
40-50	65.37
50-60	34.18
60-70	24.45
70-80	18.36
80-90	12.14
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):

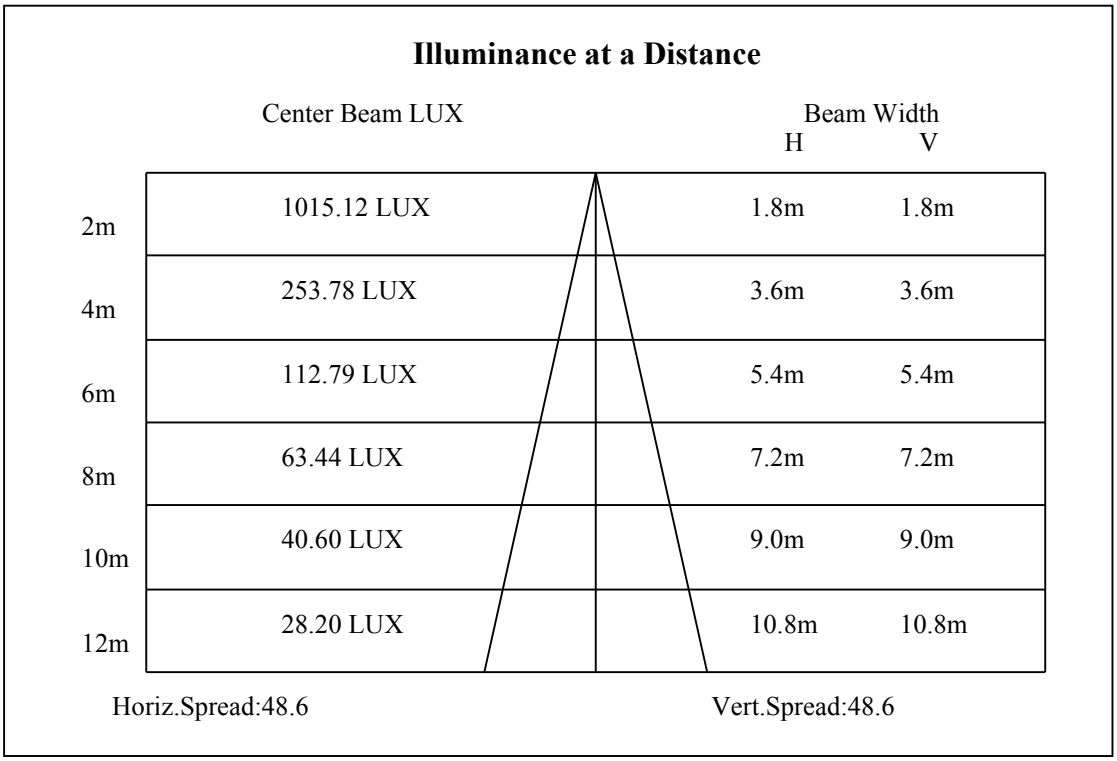
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:35.9 Right:35.9
:C90/270Left:35.9 Right:35.9

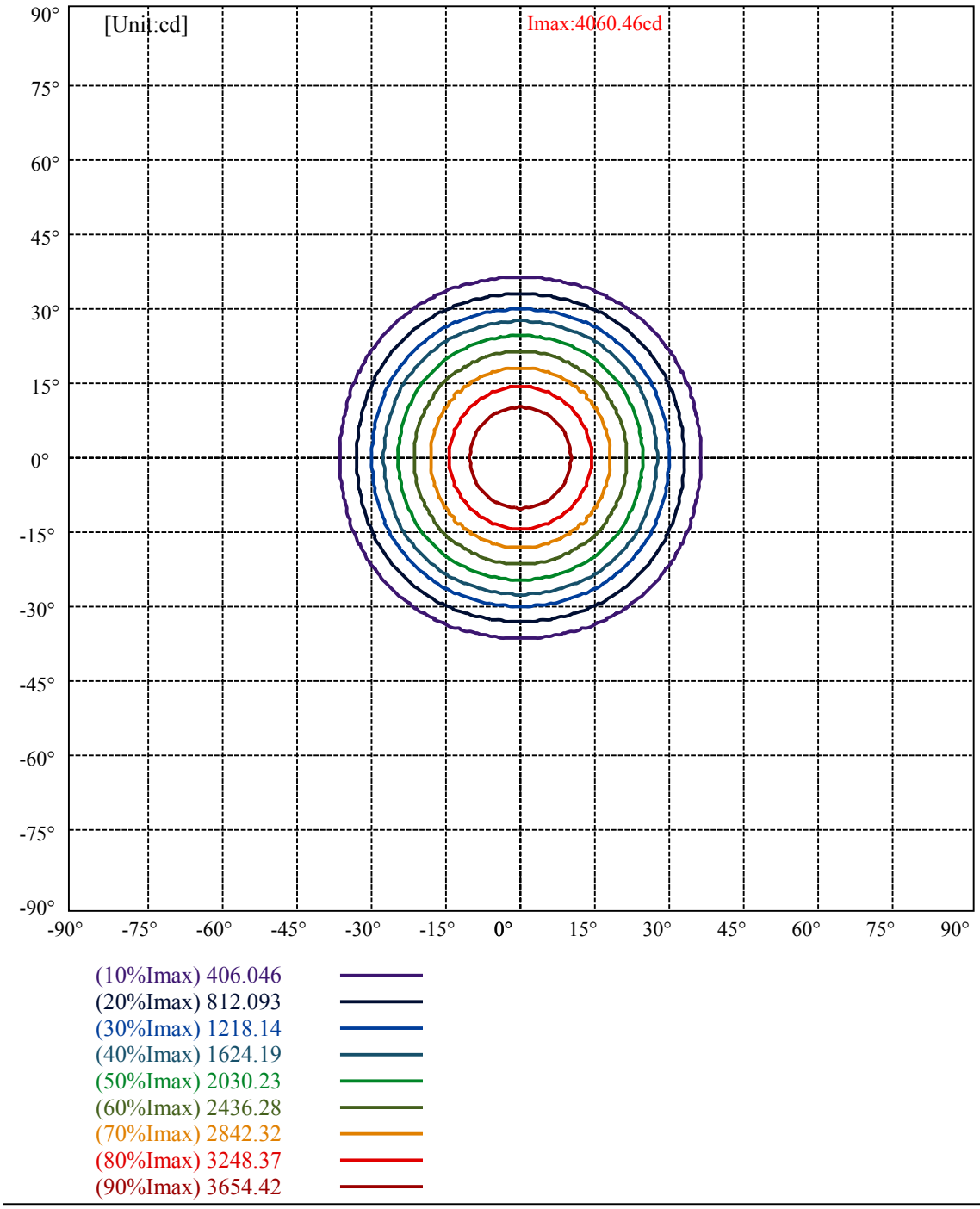
Beam Angle(50%Imax):C0/180Left:24.3 Right:24.3
:C90/270Left:24.3 Right:24.3

Lux distance Curve



Equipment: GMS1980 Date: 2023/10/23 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

ISO-Intensity(V-H)

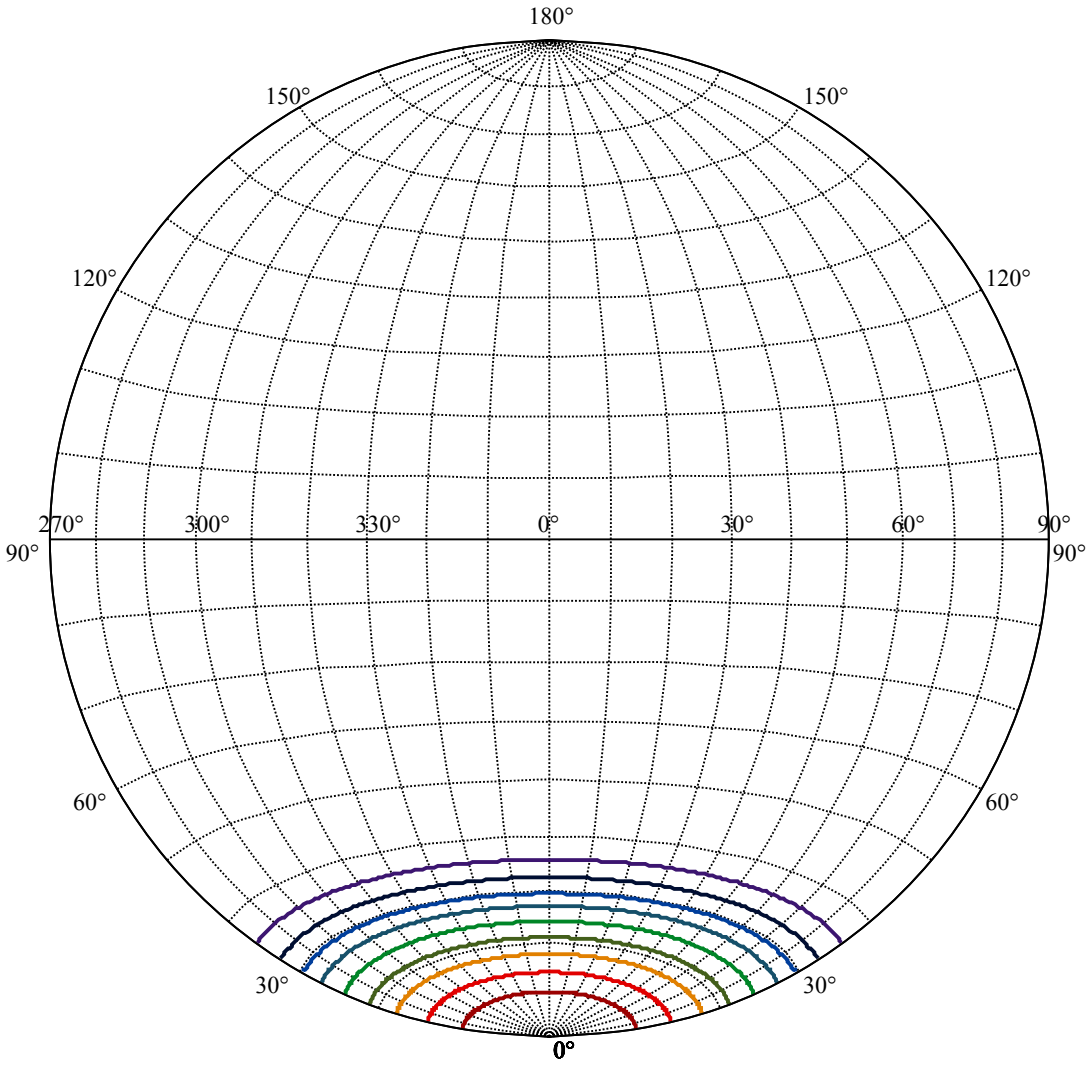


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/23
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

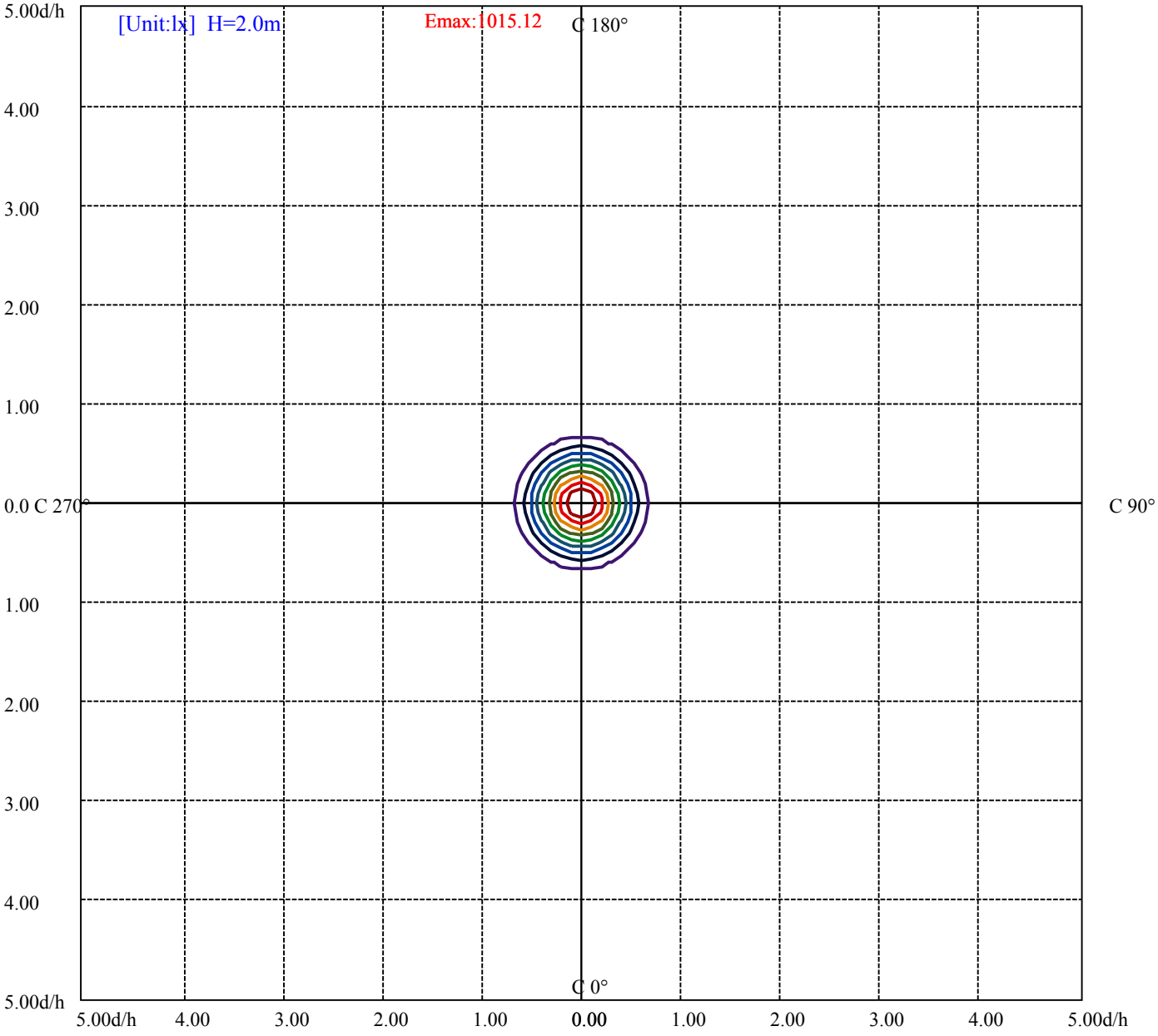
Imax:4060.46

(10%Imax) 406.046
(20%Imax) 812.093
(30%Imax) 1218.14
(40%Imax) 1624.19
(50%Imax) 2030.23
(60%Imax) 2436.28
(70%Imax) 2842.32
(80%Imax) 3248.37
(90%Imax) 3654.42

Equipment: GMS1980 Date: 2023/10/23 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

NATA 2-2642-L

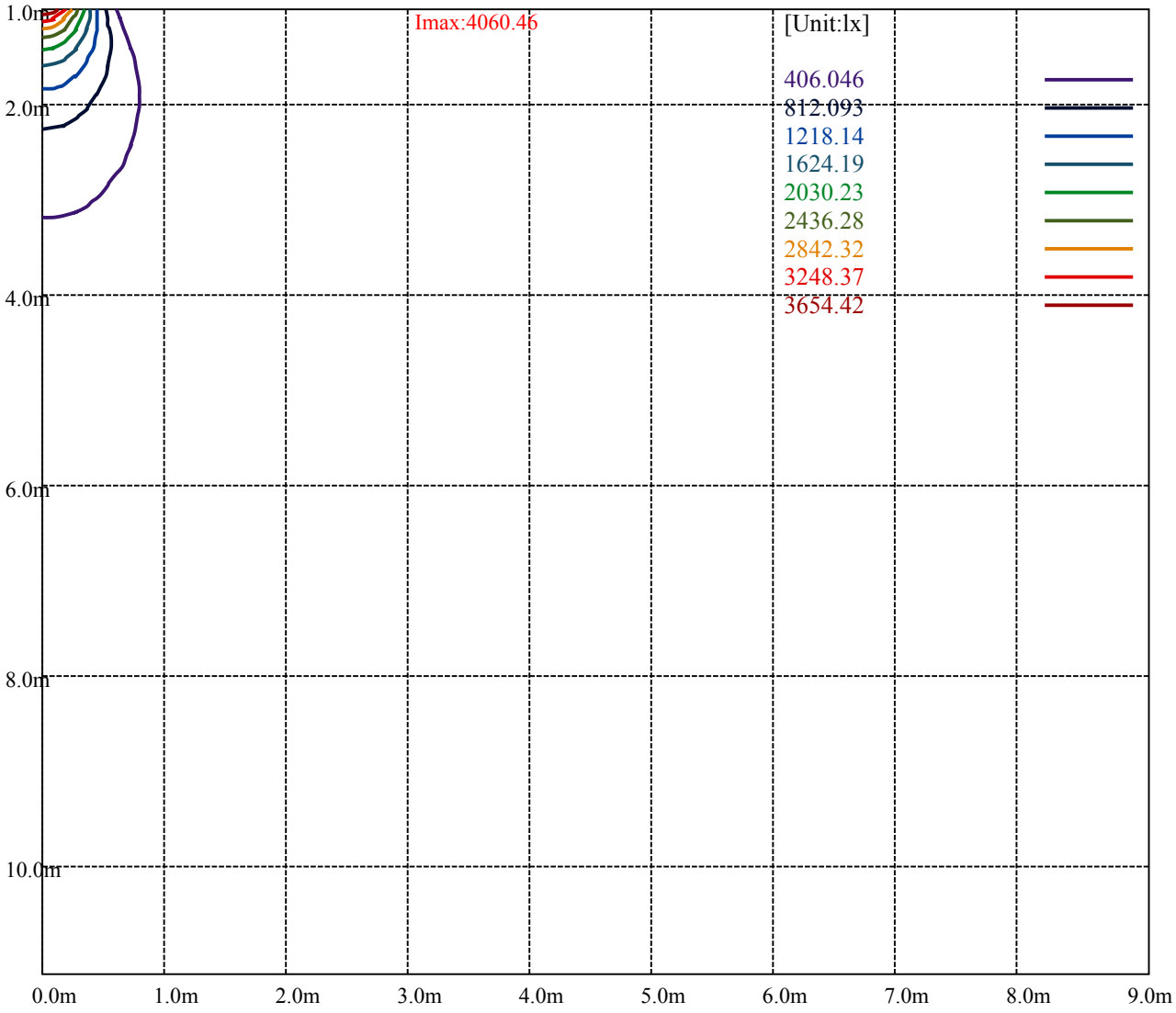
ISO illuminance diagram



(10%Emax) 101.5115
(20%Emax) 203.0233
(30%Emax) 304.535
(40%Emax) 406.0475
(50%Emax) 507.5575
(60%Emax) 609.07
(70%Emax) 710.58
(80%Emax) 812.0925
(90%Emax) 913.605

Equipment: GMS1980
Temperature(°C): 0.0
Date: 2023/10/23
Humidity(%): 0.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/23
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

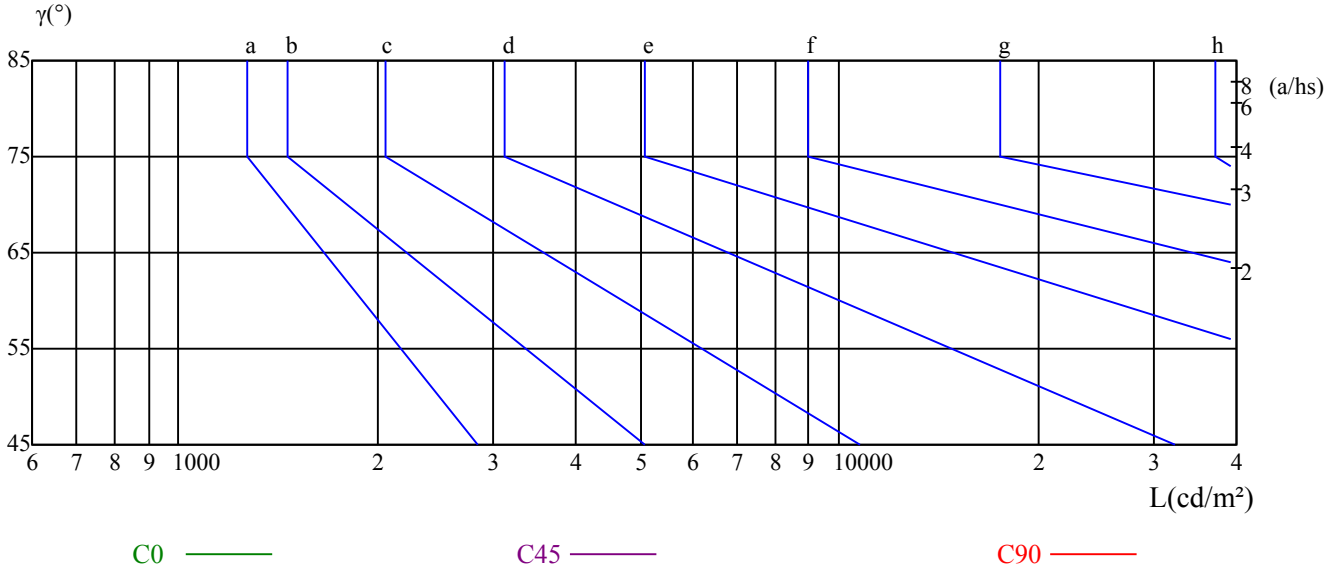
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

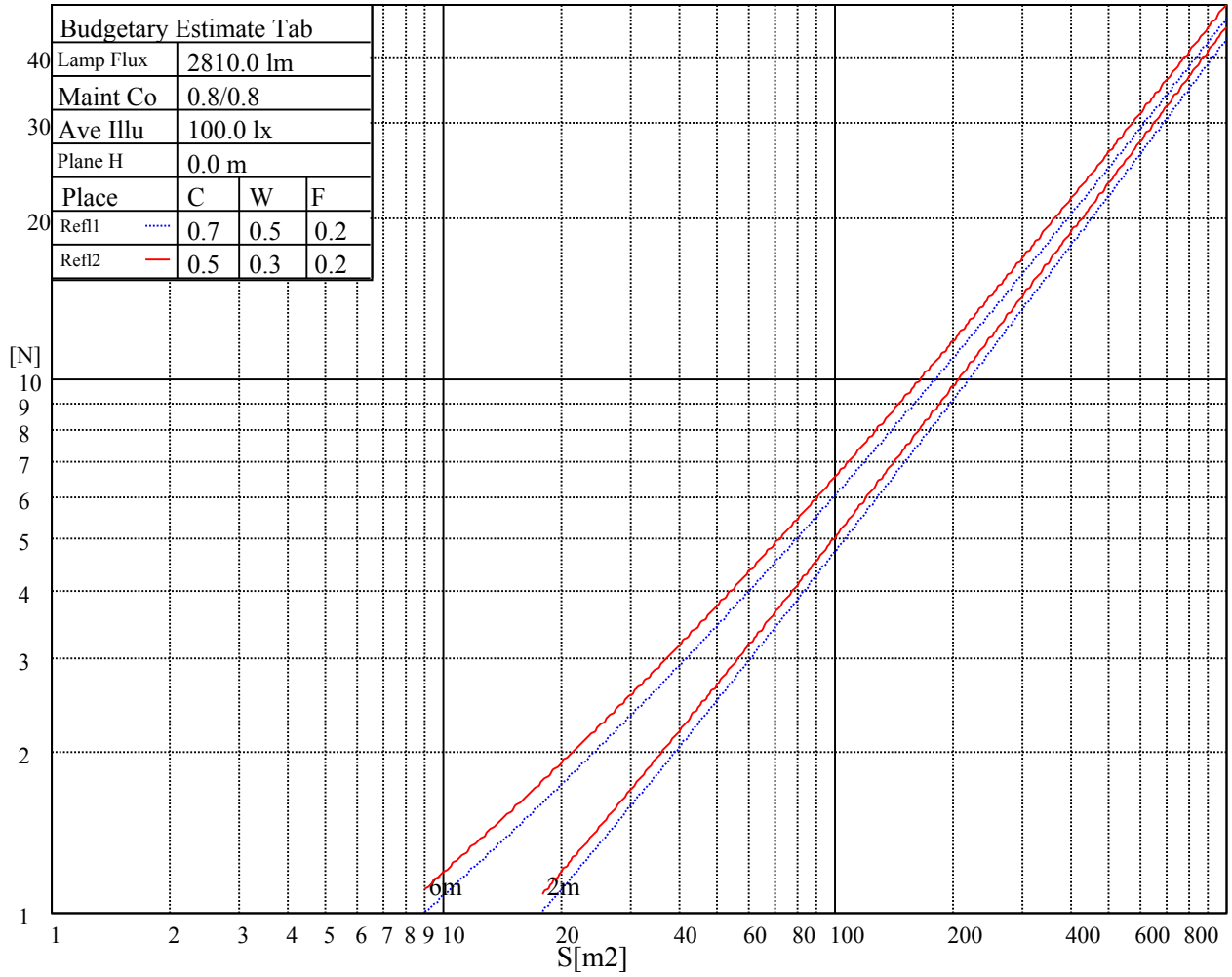
Luminance Limitting Curve



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

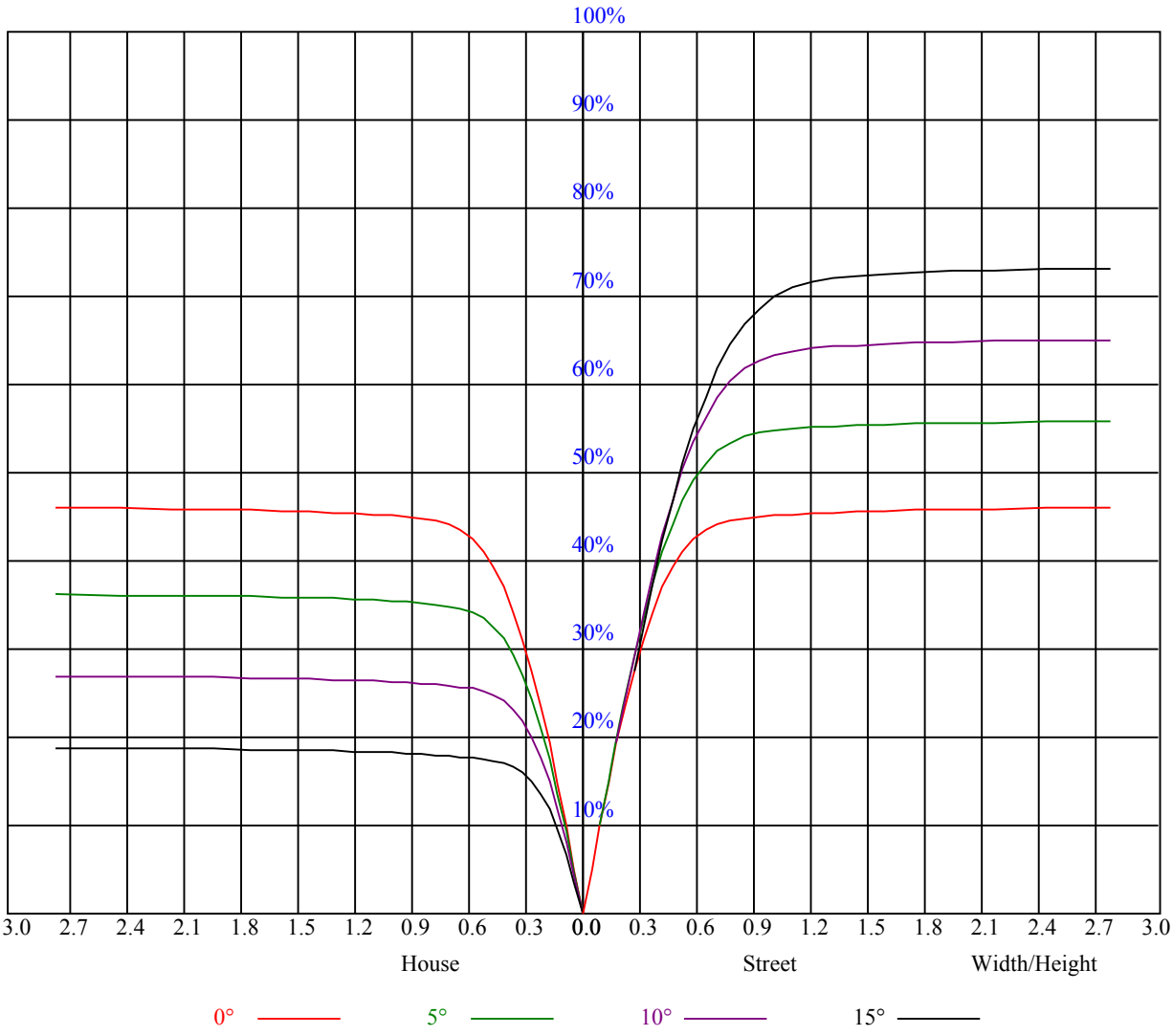


Equipment: GMS1980 Date: 2023/10/23 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.10	1.10	1.10	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	1.03	1.00	0.98	1.01	0.99	0.97	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.86	0.89	0.87	0.85	0.86	0.84	0.83	0.81
3	0.90	0.86	0.82	0.89	0.85	0.82	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.76
4	0.85	0.80	0.76	0.84	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.72
5	0.80	0.75	0.71	0.79	0.74	0.71	0.78	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.68
6	0.76	0.71	0.67	0.75	0.70	0.67	0.74	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.65	0.64
7	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.61
8	0.68	0.63	0.59	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.57
9	0.65	0.60	0.56	0.64	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.55
10	0.62	0.57	0.54	0.61	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.56	0.53	0.52

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/10/23	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	4045.79	4049.12	4054.10	4043.03	4015.90	3974.39	3921.80	3869.22	3777.33
45.0	4055.76	4059.08	4056.87	4057.97	4052.44	4020.89	3979.92	3943.94	3862.02
90.0	4070.15	4066.83	4059.63	4033.62	4008.15	3971.07	3899.66	3839.33	3759.06
135.0	4070.15	4065.72	4053.54	4040.26	4013.69	3981.03	3928.44	3864.79	3800.02
180.0	4045.79	4043.03	4036.94	4028.64	4010.37	3975.50	3939.52	3896.89	3847.08
225.0	4055.76	4043.58	4031.96	4018.67	3995.98	3959.44	3906.30	3853.72	3789.51
270.0	4070.15	4067.94	4061.85	4056.31	4043.03	4025.31	3994.87	3962.21	3900.21
315.0	4070.15	4069.60	4074.02	4067.94	4057.42	4034.72	3981.58	3943.39	3869.22
360.0	4045.79	4049.12	4054.10	4043.03	4015.90	3974.39	3921.80	3869.22	3777.33

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3699.28	3609.05	3509.42	3390.96	3284.13	3188.37	3079.87	2935.95	2836.32
45.0	3791.72	3711.46	3616.80	3494.47	3393.73	3290.22	3185.05	3051.64	2938.17
90.0	3674.93	3552.59	3463.47	3363.84	3258.11	3135.23	3036.14	2925.44	2793.14
135.0	3702.60	3619.57	3532.67	3417.53	3316.79	3223.79	3125.26	3001.83	2907.17
180.0	3761.28	3694.85	3619.02	3513.29	3423.07	3332.84	3221.03	3130.80	3037.81
225.0	3721.42	3616.25	3533.22	3432.48	3344.46	3260.88	3142.42	3046.66	2950.35
270.0	3839.33	3770.13	3689.87	3581.93	3488.94	3372.14	3283.02	3187.26	3068.25
315.0	3802.24	3720.87	3607.95	3511.63	3419.75	3302.40	3208.29	3106.44	3004.59
360.0	3699.28	3609.05	3509.42	3390.96	3284.13	3188.37	3079.87	2935.95	2836.32

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2721.74	2572.84	2447.74	2293.30	2168.75	2043.65	1915.23	1763.01	1633.48
45.0	2826.91	2686.86	2566.75	2418.95	2294.96	2173.18	2051.96	1901.95	1782.94
90.0	2685.76	2573.94	2426.70	2307.69	2181.49	2029.82	1911.91	1794.56	1664.48
135.0	2800.89	2696.83	2585.57	2444.97	2328.17	2204.18	2053.62	1936.27	1785.15
180.0	2916.58	2813.07	2699.60	2594.42	2449.40	2331.49	2214.70	2100.12	1950.11
225.0	2821.93	2715.65	2601.62	2454.93	2334.26	2214.14	2094.03	1969.48	1817.81
270.0	2970.83	2861.23	2725.06	2614.90	2497.00	2371.90	2214.70	2084.62	1957.30
315.0	2865.66	2758.82	2643.13	2526.34	2371.35	2243.48	2079.08	1951.77	1829.99
360.0	2721.74	2572.84	2447.74	2293.30	2168.75	2043.65	1915.23	1763.01	1633.48

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1496.21	1091.41	1091.41	1019.39	876.41	738.97	580.71	467.35	366.83
45.0	1655.63	1523.33	1351.73	1211.14	1071.09	898.39	763.88	638.23	521.43
90.0	1490.67	1252.65	1078.79	1078.79	909.07	775.56	648.74	504.16	401.76
135.0	1653.41	1517.24	1342.32	1206.15	1068.88	935.48	773.29	654.28	542.47
180.0	1834.97	1681.64	1544.92	1404.87	1258.74	1077.18	930.49	764.43	640.44
225.0	1690.50	1551.01	1096.06	1096.06	1022.88	876.97	740.19	615.31	475.71
270.0	1832.76	1667.25	1524.44	1376.64	1191.21	1041.20	855.21	720.15	595.05
315.0	1661.16	1517.24	1096.94	1096.94	1021.50	878.74	740.47	613.54	472.66
360.0	1496.21	1091.41	1091.41	1019.39	876.41	738.97	580.71	467.35	366.83

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	264.31	202.15	151.50	129.80	115.30	100.69	91.11	82.70	75.39
45.0	390.24	301.12	281.75	200.82	139.27	119.07	106.17	95.60	86.52
90.0	293.98	225.73	175.58	141.87	124.43	110.26	99.08	87.24	79.16
135.0	437.29	324.37	284.52	284.52	153.16	133.35	117.02	101.57	91.39
180.0	528.07	426.22	338.21	281.75	281.75	160.03	138.94	118.24	105.34
225.0	377.68	295.37	229.72	170.21	142.20	124.88	110.71	96.76	87.68
270.0	483.79	364.78	285.62	285.62	208.07	133.62	118.68	106.22	95.98
315.0	373.36	291.05	209.62	162.24	133.51	114.25	102.24	90.23	81.92
360.0	264.31	202.15	151.50	129.80	115.30	100.69	91.11	82.70	75.39

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	67.42	61.89	56.85	52.81	49.15	45.45	42.90	40.08	38.08
45.0	76.89	70.19	64.38	58.95	54.36	49.43	46.39	42.95	40.52
90.0	72.24	66.04	59.23	54.63	50.76	46.61	43.95	41.46	38.86
135.0	82.81	73.73	67.59	61.72	56.68	51.48	48.21	45.17	42.46
180.0	94.49	83.36	75.95	67.97	62.33	57.57	52.48	48.99	45.94
225.0	77.99	71.52	65.82	59.51	55.35	51.53	48.43	44.95	42.51
270.0	85.08	77.77	71.30	64.38	59.28	54.19	50.70	47.66	45.06
315.0	74.89	68.64	61.94	57.01	53.03	49.49	45.94	43.34	41.07
360.0	67.42	61.89	56.85	52.81	49.15	45.45	42.90	40.08	38.08

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	36.31	34.26	32.82	31.50	30.00	28.84	27.84	26.85	25.74
45.0	38.58	36.20	34.54	33.10	31.50	30.28	29.01	27.90	26.74
90.0	36.98	35.26	33.32	31.94	30.67	29.50	28.17	27.12	26.24
135.0	39.80	37.64	35.92	33.93	32.49	30.89	29.61	28.51	27.18
180.0	43.29	40.30	38.19	36.31	34.60	32.66	31.27	30.00	28.62
225.0	40.24	37.81	36.04	34.49	33.05	31.39	30.22	29.06	27.73
270.0	42.07	39.91	37.97	36.26	34.37	32.94	31.61	30.11	29.01
315.0	38.97	36.70	35.09	33.27	31.94	30.67	29.28	28.23	27.23
360.0	36.31	34.26	32.82	31.50	30.00	28.84	27.84	26.85	25.74

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	24.85	24.02	23.30	22.36	21.70	20.98	20.20	19.60	18.82
45.0	25.85	24.96	24.19	23.30	22.58	21.92	21.03	20.31	19.54
90.0	25.35	24.36	23.58	22.81	21.92	21.26	20.43	19.82	19.21
135.0	26.24	25.41	24.52	23.69	22.75	22.03	21.42	20.54	19.93
180.0	27.51	26.51	25.35	24.47	23.69	22.75	22.09	21.37	20.65
225.0	26.74	25.63	24.74	23.97	23.25	22.31	21.59	20.92	20.26
270.0	27.90	26.74	25.79	24.91	23.91	23.14	22.42	21.53	20.81
315.0	26.13	25.24	24.47	23.69	22.81	22.09	21.37	20.76	19.93
360.0	24.85	24.02	23.30	22.36	21.70	20.98	20.20	19.60	18.82

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.21	17.66	17.10	16.44	15.89	15.33	14.83	14.17	13.73
45.0	19.04	18.38	17.82	17.16	16.66	16.11	15.55	14.89	14.39
90.0	18.60	17.88	17.33	16.77	16.22	15.55	15.06	14.56	13.89
135.0	19.26	18.49	17.88	17.16	16.66	16.11	15.61	14.95	14.45
180.0	19.87	19.26	18.65	18.05	17.33	16.72	16.16	15.50	14.95
225.0	19.48	18.82	18.21	17.44	16.83	16.27	15.55	15.00	14.50
270.0	20.20	19.54	18.76	18.16	17.49	16.88	16.22	15.61	14.89
315.0	19.32	18.71	17.88	17.27	16.55	16.05	15.44	14.95	14.23
360.0	18.21	17.66	17.10	16.44	15.89	15.33	14.83	14.17	13.73

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.28	12.73	12.34	12.01	11.68	11.46	11.07	10.74	10.63
45.0	13.89	13.34	12.84	12.34	12.01	11.68	11.40	11.07	10.74
90.0	13.40	12.90	12.45	12.12	11.85	11.51	11.24	10.90	10.68
135.0	13.89	13.28	12.84	12.40	12.07	11.73	11.46	11.13	10.74
180.0	14.34	13.84	13.34	12.79	12.40	12.01	11.68	11.46	11.07
225.0	13.84	13.40	12.95	12.45	12.12	11.73	11.40	11.18	10.79
270.0	14.39	13.89	13.28	12.79	12.40	12.01	11.68	11.35	11.07
315.0	13.73	13.23	12.84	12.34	12.01	11.73	11.35	11.07	10.74
360.0	13.28	12.73	12.34	12.01	11.68	11.46	11.07	10.74	10.63

Intensity data(cd)

C/γ(°)	90.0
0.0	10.68
45.0	10.74
90.0	10.68
135.0	10.63
180.0	10.74
225.0	10.68
270.0	10.74
315.0	10.68
360.0	10.68