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NATA

LumCAT: 2-2641-L
Luminaire: 92.70.411.00
LampCAT: NICHIA NFCWJ120B-V3
Ballast type: AC

Report No: 20231019-B012	Voltage(V): 34.1700
Test No: 20231019-C012	Current(A): 0.5770
Number of Lamps: 1	Power (W): 19.7160
Lamp flux(lm): 2611.4	PF: 0.0000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2409.98, Efficiency(%): 92.29% , Luminous Efficacy(lm/W): 122.24
Central intensity(cd): 5271.323, Maximum intensity(cd): 5271.323
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=37.2
[C90/270]Total=37.2
Field angle(10%Imax): [C0/180]Total=65.6
[C90/270]Total=65.6
Maximum s/h(1/2): C0_180=0.60 C90_270=0.60
Maximum s/h(1/4): C0_180=0.61 C90_270=0.61
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.29%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.021%

Equipment: GMS1980	Date: 2023/10/19	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	5271.323	0.000	0	0.00%	0.00%
1.0	5261.844	5.040	5.04	0.19%	0.21%
2.0	5235.136	15.066	20.106	0.58%	0.83%
3.0	5183.934	24.919	45.025	0.95%	1.87%
4.0	5109.898	34.457	79.482	1.32%	3.30%
5.0	5010.400	43.537	123.019	1.67%	5.10%
6.0	4901.285	52.089	175.107	1.99%	7.27%
7.0	4774.040	60.055	235.162	2.30%	9.76%
8.0	4622.510	67.249	302.411	2.58%	12.55%
9.0	4467.451	73.669	376.081	2.82%	15.61%
10.0	4293.710	79.285	455.366	3.04%	18.89%
11.0	4127.718	84.147	539.513	3.22%	22.39%
12.0	3935.641	88.144	627.657	3.38%	26.04%
13.0	3748.684	91.194	718.851	3.49%	29.83%
14.0	3553.078	93.462	812.313	3.58%	33.71%
15.0	3356.435	94.857	907.17	3.63%	37.64%
16.0	3153.287	95.386	1002.555	3.65%	41.60%
17.0	2947.510	95.006	1097.561	3.64%	45.54%
18.0	2744.916	93.856	1191.417	3.59%	49.44%
19.0	2549.102	92.105	1283.522	3.53%	53.26%
20.0	2351.006	89.686	1373.207	3.43%	56.98%
21.0	2156.991	86.563	1459.77	3.31%	60.57%
22.0	1971.834	82.970	1542.741	3.18%	64.01%
23.0	1791.796	78.971	1621.712	3.02%	67.29%
24.0	1621.791	74.633	1696.345	2.86%	70.39%
25.0	1430.877	69.411	1765.756	2.66%	73.27%
26.0	1288.161	64.183	1829.939	2.46%	75.93%
27.0	1158.855	59.867	1889.806	2.29%	78.42%
28.0	1048.992	55.898	1945.704	2.14%	80.74%
29.0	929.511	51.763	1997.467	1.98%	82.88%
30.0	808.737	46.932	2044.4	1.80%	84.83%
31.0	704.347	42.107	2086.506	1.61%	86.58%
32.0	602.413	37.437	2123.944	1.43%	88.13%
33.0	509.731	32.764	2156.708	1.25%	89.49%
34.0	431.862	28.495	2185.203	1.09%	90.67%
35.0	355.024	24.438	2209.641	0.94%	91.69%
36.0	297.934	20.790	2230.431	0.80%	92.55%
37.0	254.294	18.011	2248.442	0.69%	93.30%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	204.414	15.311	2263.753	0.59%	93.93%
39.0	166.801	12.671	2276.423	0.49%	94.46%
40.0	124.200	10.149	2286.573	0.39%	94.88%
41.0	101.754	8.046	2294.619	0.31%	95.21%
42.0	85.362	6.798	2301.417	0.26%	95.50%
43.0	72.769	5.858	2307.274	0.22%	95.74%
44.0	64.245	5.171	2312.446	0.20%	95.95%
45.0	57.416	4.676	2317.121	0.18%	96.15%
46.0	52.316	4.291	2321.413	0.16%	96.32%
47.0	47.687	3.977	2325.39	0.15%	96.49%
48.0	44.338	3.720	2329.11	0.14%	96.64%
49.0	40.989	3.504	2332.614	0.13%	96.79%
50.0	38.381	3.309	2335.923	0.13%	96.93%
51.0	35.994	3.147	2339.07	0.12%	97.06%
52.0	33.842	2.997	2342.067	0.11%	97.18%
53.0	32.008	2.864	2344.931	0.11%	97.30%
54.0	30.334	2.748	2347.679	0.11%	97.41%
55.0	28.853	2.642	2350.321	0.10%	97.52%
56.0	27.497	2.546	2352.867	0.10%	97.63%
57.0	26.321	2.461	2355.328	0.09%	97.73%
58.0	25.248	2.385	2357.713	0.09%	97.83%
59.0	24.273	2.315	2360.028	0.09%	97.93%
60.0	23.380	2.251	2362.279	0.09%	98.02%
61.0	22.522	2.191	2364.47	0.08%	98.11%
62.0	21.802	2.136	2366.606	0.08%	98.20%
63.0	21.097	2.086	2368.692	0.08%	98.29%
64.0	20.467	2.040	2370.731	0.08%	98.37%
65.0	19.872	1.996	2372.728	0.08%	98.45%
66.0	19.263	1.953	2374.68	0.07%	98.54%
67.0	18.744	1.911	2376.591	0.07%	98.61%
68.0	18.184	1.871	2378.462	0.07%	98.69%
69.0	17.699	1.831	2380.293	0.07%	98.77%
70.0	17.173	1.791	2382.084	0.07%	98.84%
71.0	16.696	1.751	2383.834	0.07%	98.91%
72.0	16.226	1.712	2385.546	0.07%	98.99%
73.0	15.755	1.672	2387.218	0.06%	99.06%
74.0	15.278	1.631	2388.85	0.06%	99.12%
75.0	14.828	1.591	2390.441	0.06%	99.19%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.385	1.551	2391.991	0.06%	99.25%
77.0	13.977	1.512	2393.503	0.06%	99.32%
78.0	13.569	1.475	2394.978	0.06%	99.38%
79.0	13.174	1.437	2396.415	0.06%	99.44%
80.0	12.766	1.398	2397.813	0.05%	99.49%
81.0	12.378	1.360	2399.173	0.05%	99.55%
82.0	11.998	1.322	2400.495	0.05%	99.61%
83.0	11.652	1.286	2401.781	0.05%	99.66%
84.0	11.327	1.252	2403.032	0.05%	99.71%
85.0	11.064	1.222	2404.254	0.05%	99.76%
86.0	10.801	1.195	2405.45	0.05%	99.81%
87.0	10.552	1.169	2406.618	0.04%	99.86%
88.0	10.310	1.143	2407.761	0.04%	99.91%
89.0	10.123	1.120	2408.881	0.04%	99.95%
90.0	10.005	1.104	2409.984	0.04%	100.00%

Zonal flux distribution table

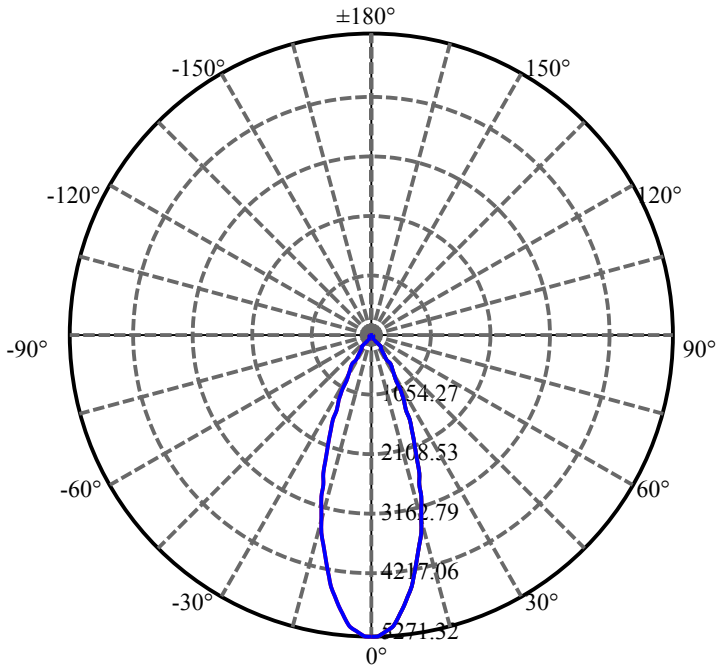
ZONAL LUMEN SUMMARY

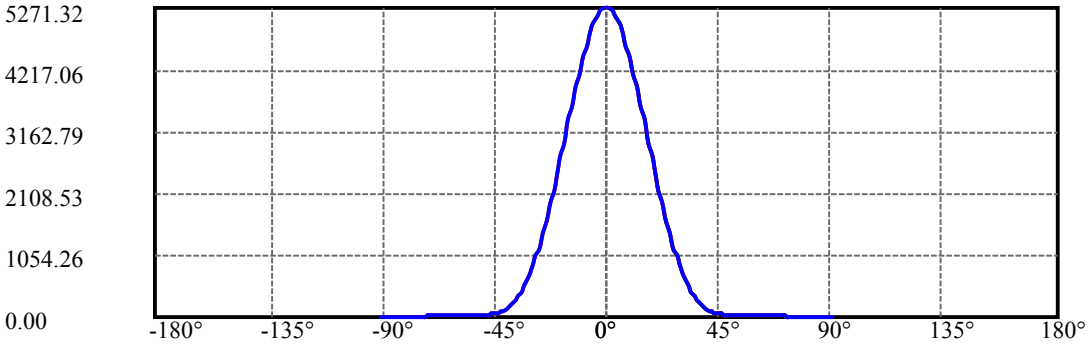
Zone	Lumens	%Lamp	%Fixt
0-30	2044.40	78.29%	84.83%
0-40	2286.57	87.56%	94.88%
0-60	2362.28	90.46%	98.02%
0-90	2408.88	92.25%	99.95%
0-120	2408.88	92.25%	99.95%
0-180	2409.98	92.29%	100.00%
60-90	46.60	1.78%	1.93%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.68	1927.99	73.83%	80.00%

ZONAL LUMEN SUMMARY

0-10	455.37
10-20	917.84
20-30	671.19
30-40	242.17
40-50	49.35
50-60	26.36
60-70	19.80
70-80	15.73
80-90	11.07
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):

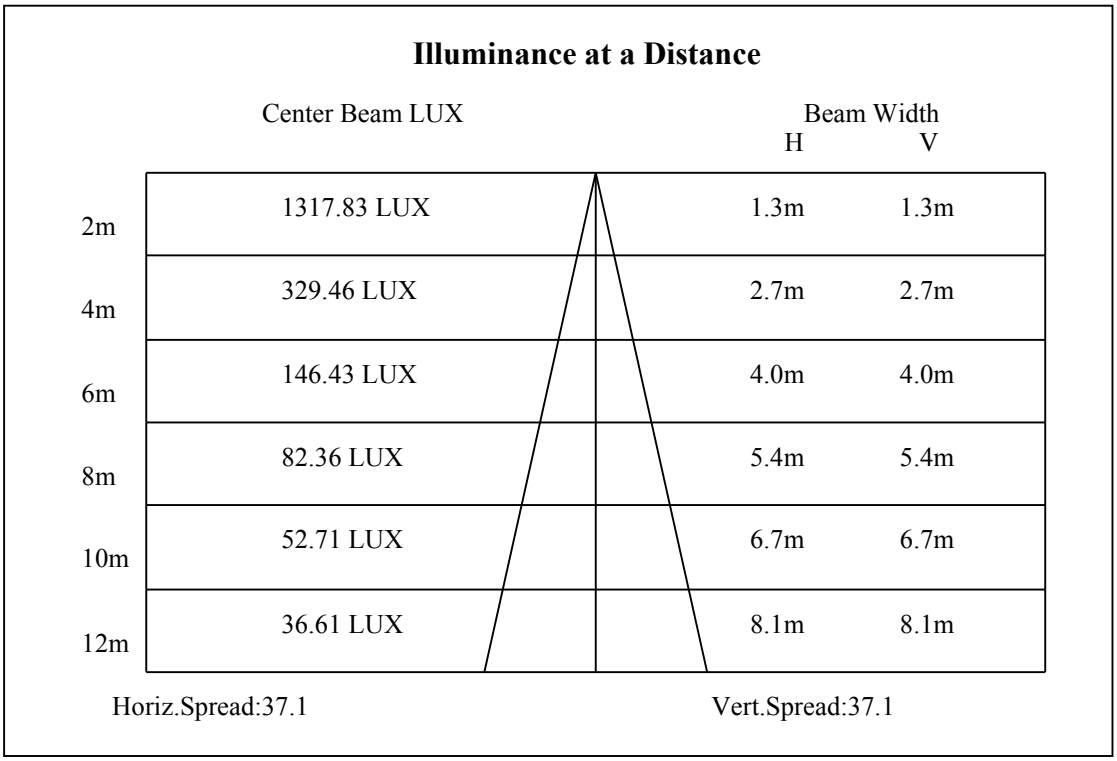
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:32.8 Right:32.8
:C90/270Left:32.8 Right:32.8

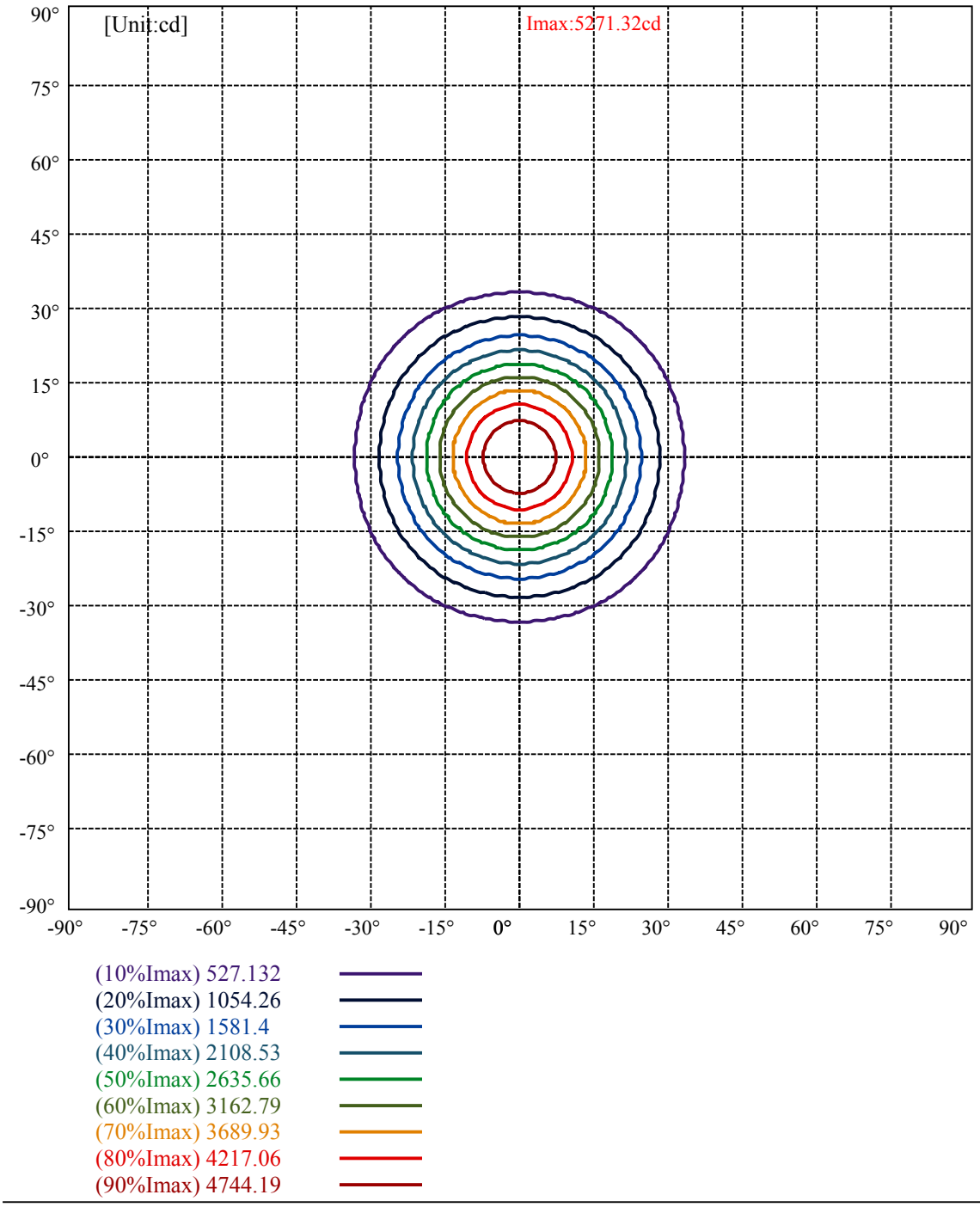
Beam Angle(50%Imax):C0/180Left:18.6 Right:18.6
:C90/270Left:18.6 Right:18.6

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)

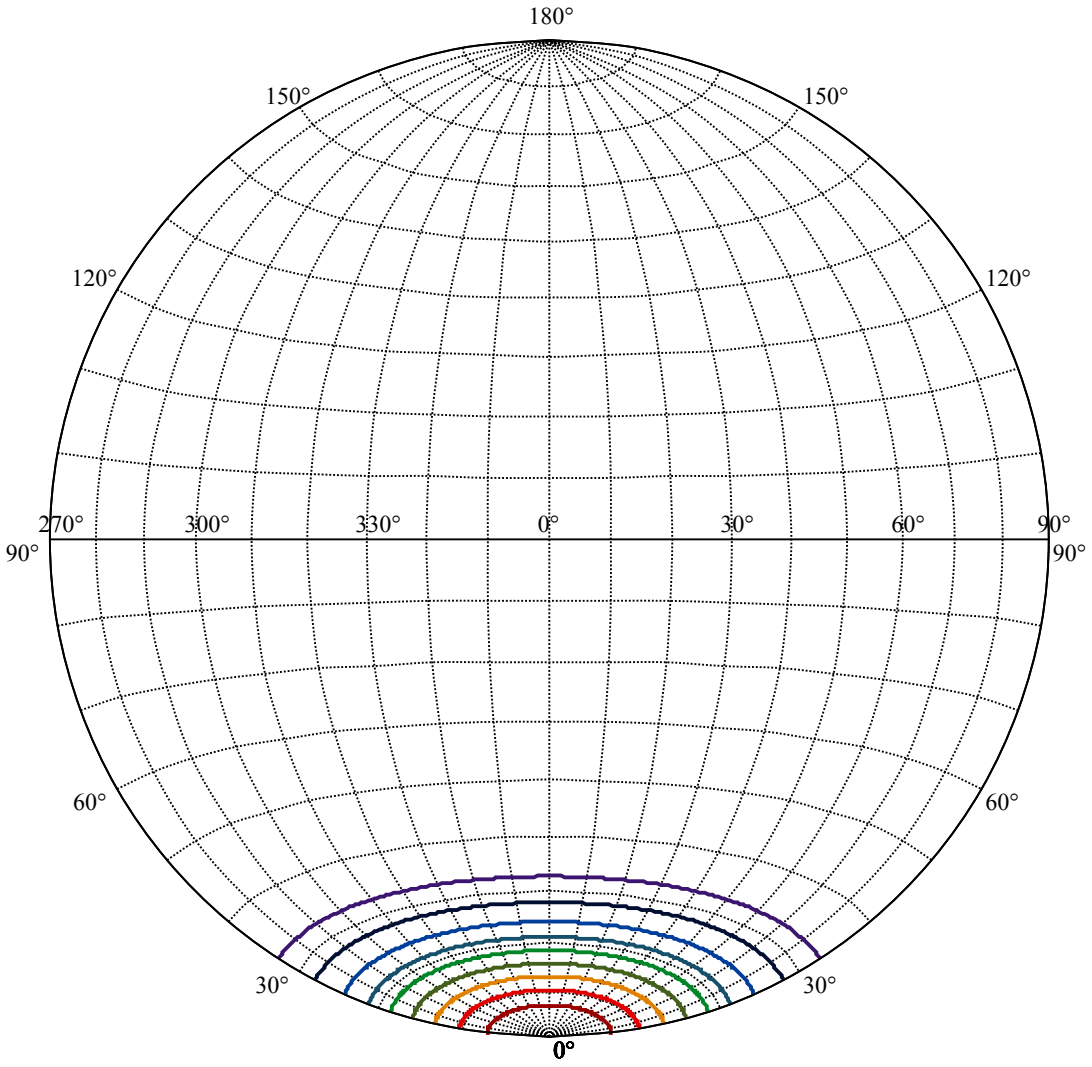


Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:5271.32

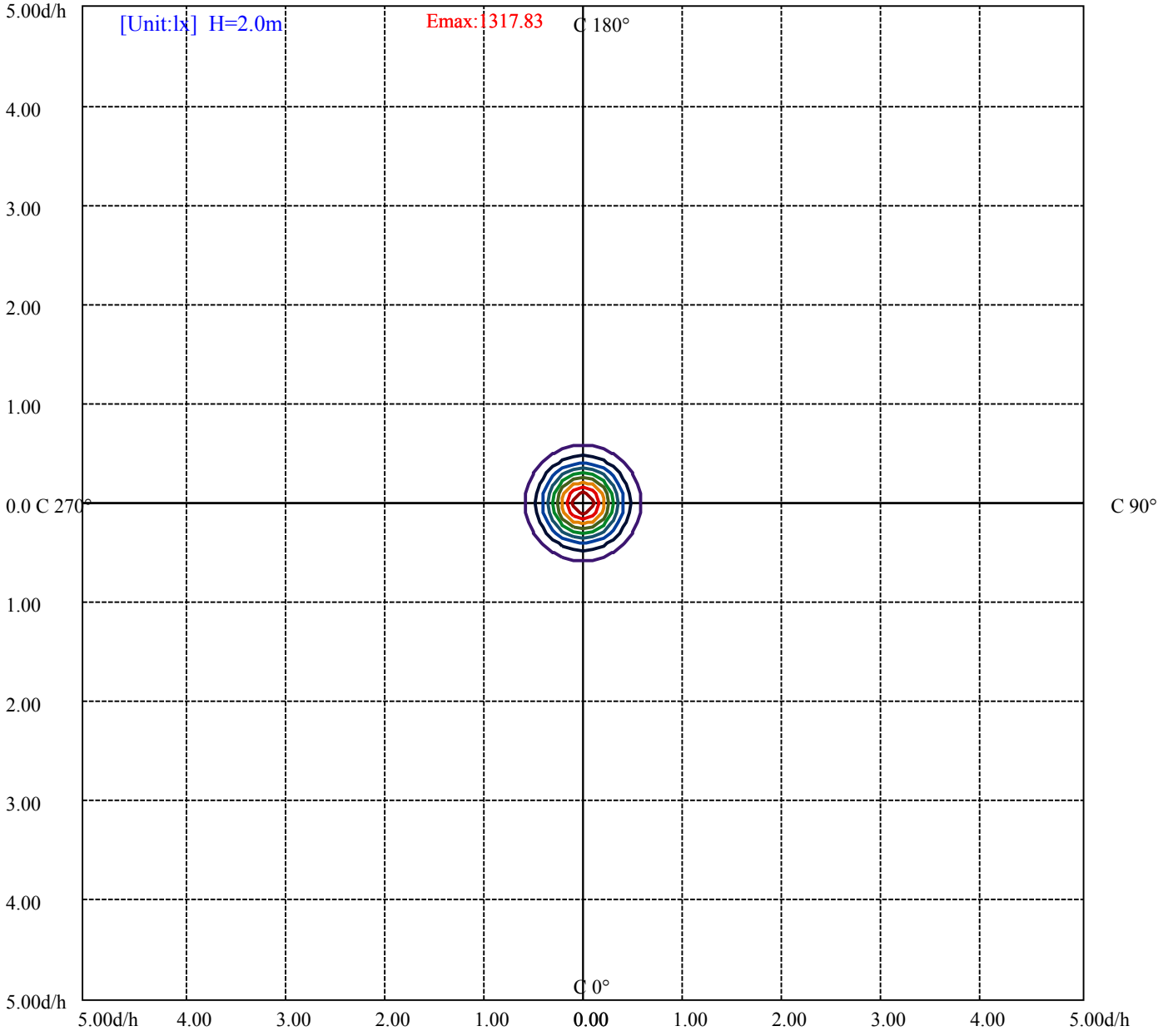
(10%Imax) 527.132
(20%Imax) 1054.26
(30%Imax) 1581.4
(40%Imax) 2108.53
(50%Imax) 2635.66
(60%Imax) 3162.79
(70%Imax) 3689.93
(80%Imax) 4217.06
(90%Imax) 4744.19

Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

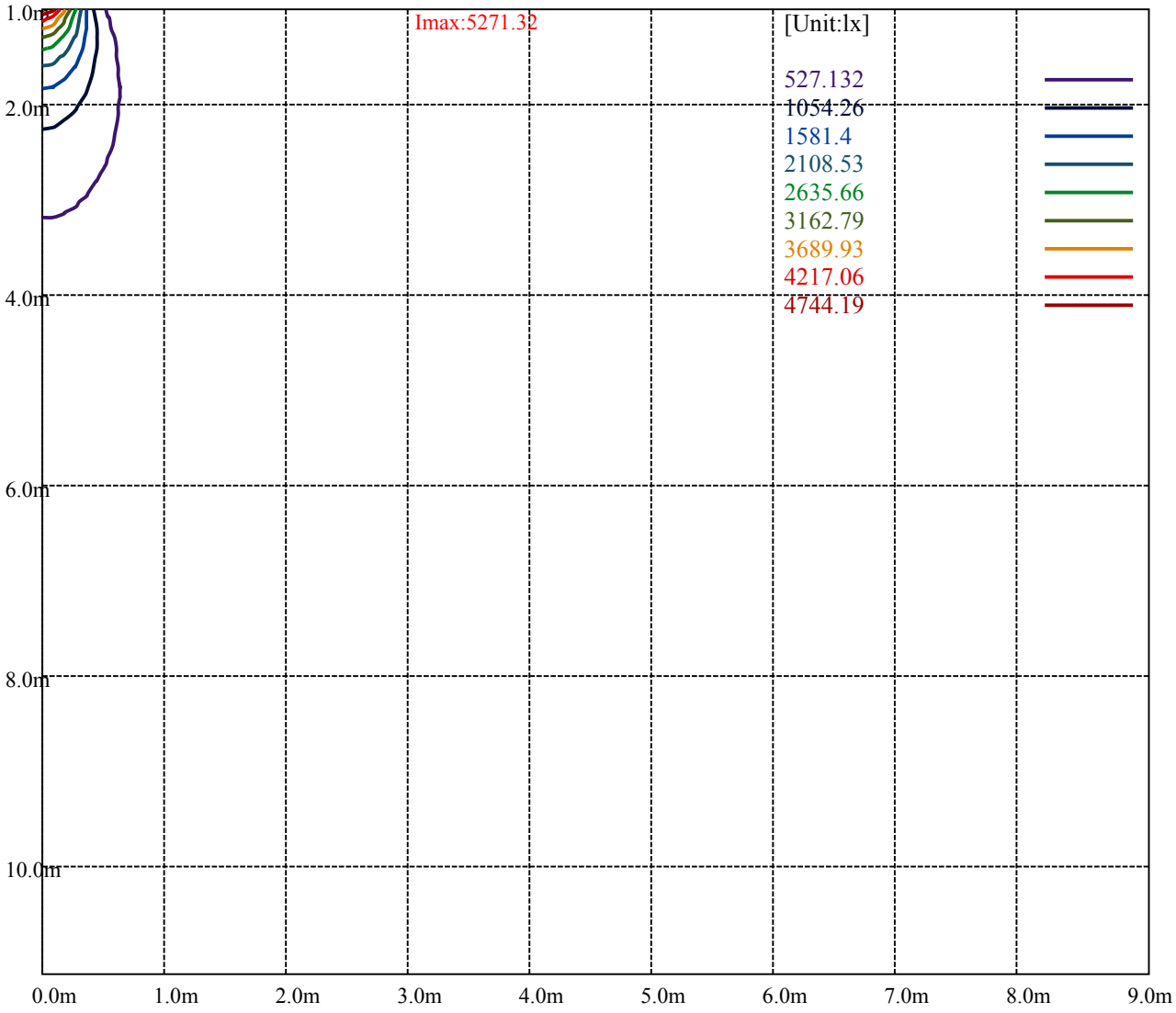
ISO illuminance diagram



(10%Emax) 131.783
(20%Emax) 263.565
(30%Emax) 395.35
(40%Emax) 527.1325
(50%Emax) 658.915
(60%Emax) 790.6975
(70%Emax) 922.4825
(80%Emax) 1054.265
(90%Emax) 1186.047

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

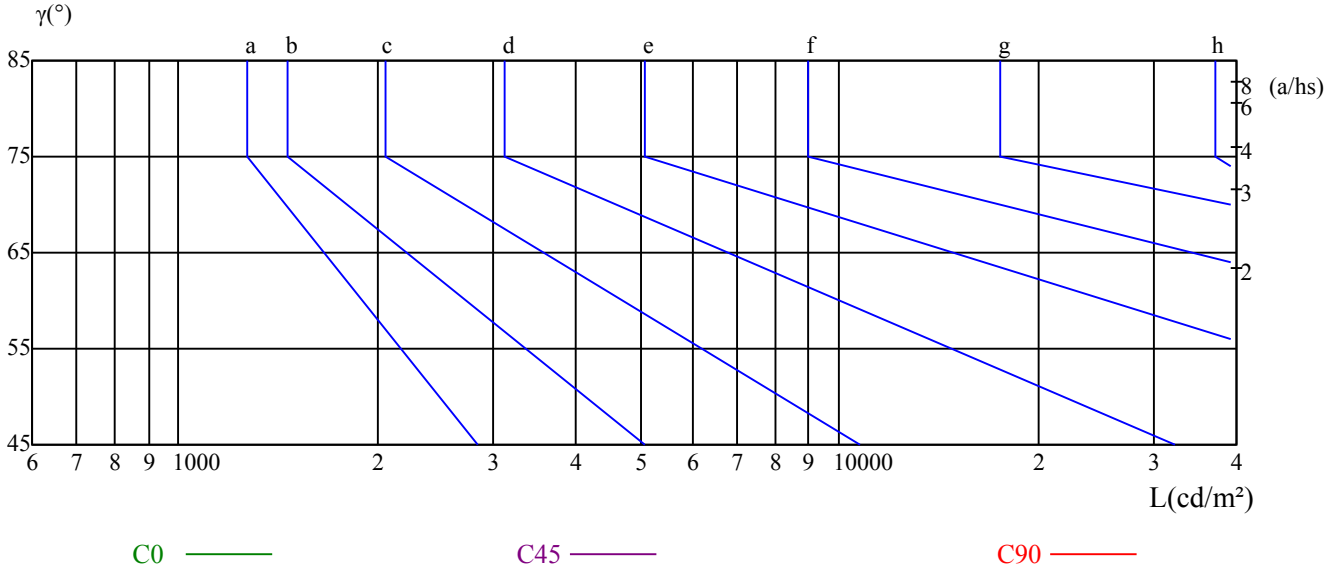
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

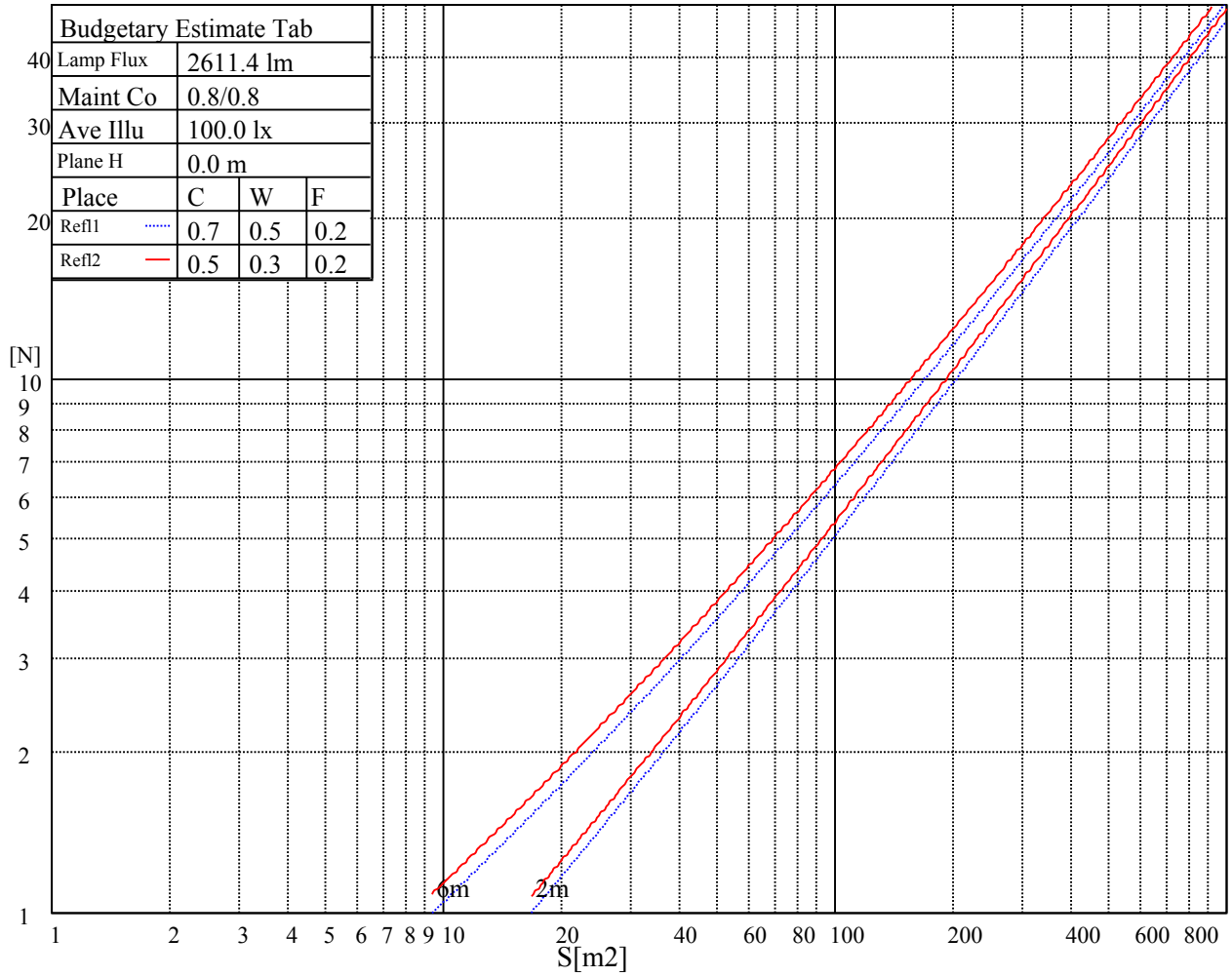


UGR Glare

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

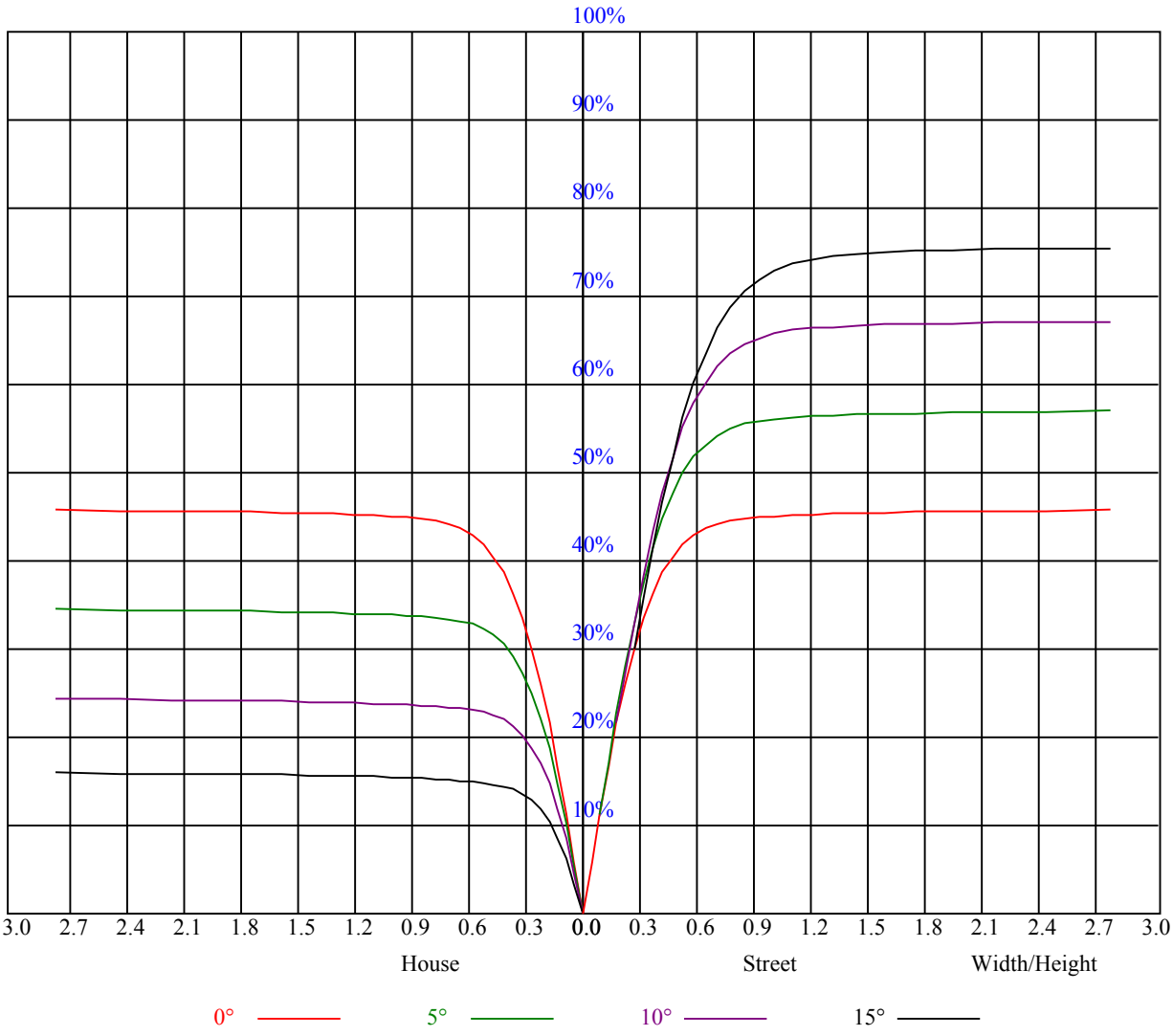


Equipment: GMS1980 Date: 2023/10/19 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.10	1.10	1.10	1.07	1.07	1.07	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.00	0.99	1.01	0.99	0.97	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.89	0.89	0.87
2	0.96	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.84	0.82
3	0.91	0.87	0.83	0.90	0.86	0.83	0.87	0.84	0.82	0.85	0.82	0.80	0.83	0.81	0.79	0.78
4	0.86	0.82	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.80	0.77	0.75	0.74
5	0.82	0.77	0.73	0.81	0.76	0.73	0.79	0.75	0.72	0.78	0.74	0.72	0.76	0.74	0.71	0.70
6	0.78	0.73	0.69	0.77	0.72	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
7	0.74	0.69	0.66	0.74	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.64
8	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.61
9	0.68	0.63	0.60	0.67	0.63	0.60	0.67	0.62	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.58
10	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.56

Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
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	5262.47	5207.67	5152.31	5069.28	4944.74	4830.71	4711.70	4572.76	4381.24
45.0	5270.22	5268.56	5225.93	5169.47	5079.25	4969.65	4857.28	4746.57	4567.78
90.0	5274.09	5220.95	5163.38	5103.05	4994.56	4862.81	4751.55	4606.53	4412.24
135.0	5278.52	5280.73	5251.95	5195.49	5134.60	5016.70	4910.42	4775.91	4635.31
180.0	5262.47	5275.20	5281.84	5266.34	5230.36	5145.12	5063.19	4955.25	4849.53
225.0	5270.22	5289.59	5267.45	5209.33	5148.44	5056.00	4927.58	4814.10	4669.63
270.0	5274.09	5272.43	5295.13	5266.34	5220.95	5168.37	5084.78	4941.42	4832.92
315.0	5278.52	5279.63	5243.09	5192.17	5126.30	5033.86	4903.78	4779.78	4631.44
360.0	5262.47	5207.67	5152.31	5069.28	4944.74	4830.71	4711.70	4572.76	4381.24

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4221.27	4048.56	3876.97	3647.25	3466.80	3288.56	3051.09	2848.50	2612.69
45.0	4416.11	4263.33	4062.40	3881.39	3710.35	3489.49	3297.97	3104.23	2871.74
90.0	4256.14	4052.44	3872.54	3693.19	3512.74	3290.77	3103.68	2915.47	2730.04
135.0	4481.43	4333.08	4168.68	3953.35	3778.99	3601.86	3415.87	3179.51	2991.86
180.0	4698.97	4541.76	4397.84	4238.43	4020.89	3832.68	3654.44	3442.44	3255.35
225.0	4524.05	4330.87	4170.34	4000.40	3828.25	3608.50	3429.71	3250.36	3019.54
270.0	4664.09	4506.34	4359.10	4147.65	3967.19	3781.20	3606.29	3385.98	3191.69
315.0	4477.55	4273.30	4113.88	3923.46	3704.26	3531.56	3292.43	3099.80	2907.17
360.0	4221.27	4048.56	3876.97	3647.25	3466.80	3288.56	3051.09	2848.50	2612.69

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2425.04	2238.50	2055.83	1846.04	1677.77	1524.44	1378.30	1089.08	1089.08
45.0	2686.31	2497.55	2315.99	2096.24	1923.54	1757.48	1557.10	1408.75	1268.70
90.0	2504.20	2321.53	2139.42	1968.37	1756.92	1598.61	1414.28	1080.11	1080.11
135.0	2763.81	2578.37	2396.81	2173.74	2004.35	1838.29	1642.34	1493.44	1354.50
180.0	3076.55	2833.55	2645.35	2458.81	2226.88	2054.73	1888.11	1727.59	1539.38
225.0	2832.44	2640.92	2402.90	2224.11	2050.85	1845.49	1692.16	1544.37	1405.98
270.0	3007.36	2810.86	2571.73	2381.31	2198.64	1982.77	1820.03	1666.70	1482.37
315.0	2663.62	2471.54	2280.01	2107.31	1935.72	1732.57	1582.01	1436.98	1085.15
360.0	2425.04	2238.50	2055.83	1846.04	1677.77	1524.44	1378.30	1089.08	1089.08

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	971.57	863.18	735.21	640.66	553.87	456.67	386.15	323.98	254.18
45.0	1138.62	990.28	876.25	744.51	647.08	558.52	459.43	391.35	330.46
90.0	1015.79	868.44	758.29	633.47	542.19	460.54	389.86	327.80	258.67
135.0	1224.42	1068.32	950.97	840.27	736.20	613.32	526.97	448.92	364.23
180.0	1401.00	1269.81	1142.50	993.60	881.23	748.93	648.74	557.96	457.22
225.0	1086.98	1086.98	998.91	888.09	754.69	655.61	563.28	459.82	388.14
270.0	1347.31	1218.33	1060.57	945.44	834.73	732.88	612.76	526.97	448.92
315.0	1085.15	1026.59	913.39	783.86	684.78	592.84	490.65	418.09	338.38
360.0	971.57	863.18	735.21	640.66	553.87	456.67	386.15	323.98	254.18

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	207.24	167.83	128.92	106.11	88.95	73.73	65.10	58.45	53.25
45.0	288.39	288.39	170.49	139.10	114.25	92.16	79.32	69.58	62.22
90.0	211.89	173.64	141.98	112.09	94.82	81.70	69.63	62.49	55.52
135.0	302.78	288.95	225.62	153.72	126.15	100.85	86.19	74.84	66.37
180.0	386.37	324.37	281.75	281.75	165.67	134.68	110.87	89.51	77.00
225.0	324.54	253.96	206.08	166.34	127.20	103.90	86.96	71.85	63.44
270.0	380.28	305.00	291.16	228.72	156.87	127.98	100.96	85.13	73.40
315.0	281.97	232.21	189.31	146.58	119.67	99.03	83.86	70.30	62.77
360.0	207.24	167.83	128.92	106.11	88.95	73.73	65.10	58.45	53.25

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	48.16	44.67	41.68	39.08	36.20	34.26	31.99	30.50	29.17
45.0	55.24	50.76	46.00	42.79	39.97	36.92	34.82	32.94	31.00
90.0	51.15	47.27	43.23	40.52	38.08	35.87	33.49	31.83	30.33
135.0	58.40	53.53	49.32	45.72	41.90	39.13	36.87	34.32	32.49
180.0	67.42	60.45	53.86	49.71	45.33	42.35	39.74	36.81	34.76
225.0	57.18	52.42	47.55	44.23	41.46	38.91	36.15	34.21	31.94
270.0	64.87	57.07	52.36	48.32	44.17	41.29	38.75	36.48	34.49
315.0	56.90	52.36	47.49	44.34	40.80	38.30	36.15	33.65	31.88
360.0	48.16	44.67	41.68	39.08	36.20	34.26	31.99	30.50	29.17

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.62	26.51	25.52	24.58	23.53	22.81	22.09	21.42	20.70
45.0	29.56	28.23	27.07	25.74	24.85	24.02	23.19	22.20	21.48
90.0	29.01	27.46	26.35	25.35	24.19	23.36	22.58	21.70	21.03
135.0	30.67	29.17	27.95	26.51	25.52	24.58	23.69	22.69	21.98
180.0	32.94	30.89	29.45	28.23	26.96	25.63	24.69	23.75	22.97
225.0	30.39	29.01	27.46	26.35	25.24	24.36	23.30	22.53	21.81
270.0	32.16	30.61	28.78	27.51	26.40	25.13	24.19	23.41	22.64
315.0	30.33	28.95	27.40	26.29	25.30	24.30	23.30	22.47	21.81
360.0	27.62	26.51	25.52	24.58	23.53	22.81	22.09	21.42	20.70

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.15	19.60	18.99	18.49	17.82	17.38	16.88	16.44	15.83
45.0	20.87	20.20	19.60	18.93	18.49	17.99	17.49	16.88	16.44
90.0	20.48	19.76	19.26	18.71	18.21	17.55	17.10	16.66	16.22
135.0	21.31	20.76	20.15	19.43	18.99	18.38	17.82	17.33	16.77
180.0	22.09	21.42	20.81	20.15	19.60	18.99	18.49	17.99	17.55
225.0	21.20	20.48	19.93	19.43	18.82	18.32	17.88	17.27	16.83
270.0	21.70	21.09	20.54	19.82	19.32	18.82	18.32	17.71	17.27
315.0	20.98	20.43	19.71	19.15	18.71	18.05	17.60	17.10	16.66
360.0	20.15	19.60	18.99	18.49	17.82	17.38	16.88	16.44	15.83

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.44	15.06	14.61	14.12	13.73	13.40	12.95	12.57	12.18
45.0	16.00	15.50	15.00	14.56	14.17	13.78	13.28	12.95	12.51
90.0	15.67	15.22	14.72	14.34	13.95	13.45	13.12	12.73	12.23
135.0	16.33	15.89	15.33	14.95	14.50	14.12	13.67	13.28	12.95
180.0	16.94	16.55	16.05	15.61	15.06	14.67	14.23	13.89	13.40
225.0	16.38	15.89	15.44	15.00	14.56	14.12	13.73	13.34	13.01
270.0	16.83	16.27	15.83	15.28	14.83	14.45	14.06	13.56	13.17
315.0	16.22	15.67	15.22	14.78	14.28	13.84	13.51	13.06	12.68
360.0	15.44	15.06	14.61	14.12	13.73	13.40	12.95	12.57	12.18

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.79	11.51	11.24	10.96	10.74	10.46	10.24	9.96	9.96
45.0	12.12	11.79	11.40	11.13	10.85	10.63	10.41	10.19	9.96
90.0	11.90	11.57	11.35	11.02	10.74	10.52	10.24	10.02	9.96
135.0	12.51	12.07	11.62	11.35	11.13	10.79	10.57	10.30	10.02
180.0	13.01	12.57	12.18	11.73	11.46	11.18	10.85	10.68	10.46
225.0	12.51	12.12	11.79	11.46	11.18	10.85	10.68	10.46	10.19
270.0	12.84	12.40	12.01	11.62	11.35	11.13	10.85	10.52	10.35
315.0	12.34	11.96	11.62	11.35	11.07	10.85	10.57	10.35	10.07
360.0	11.79	11.51	11.24	10.96	10.74	10.46	10.24	9.96	9.96

Intensity data(cd)

C/γ(°)	90.0
0.0	9.96
45.0	9.91
90.0	9.96
135.0	10.02
180.0	10.19
225.0	9.96
270.0	10.07
315.0	9.96
360.0	9.96