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

Client:
LumCAT: 2-2645-L
Luminaire: 92.70.412.00
Report No: 20231013-B009
Ballast type: AC

Test No: 20231013-C009	Voltage(V): 34.010
LampCAT: LUMINUS CXM-14-AC40	Current(A): 0.530
Lamp flux(lm): 2320.0	Power (W): 18.025
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2180.53, Efficiency(%): 93.99% , Luminous Efficacy(lm/W): 120.97
Central intensity(cd): 4755.012, Maximum intensity(cd): 4755.012
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=39.4
[C90/270]Total=39.4
Field angle(10%Imax): [C0/180]Total=63.4
[C90/270]Total=63.4
Maximum s/h(1/2): C0_180=0.64 C90_270=0.64
Maximum s/h(1/4): C0_180=0.62 C90_270=0.62
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.99%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.268%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4755.013	0.000	0	0.00%	0.00%
1.0	4748.578	4.547	4.547	0.20%	0.21%
2.0	4722.908	13.594	18.142	0.59%	0.83%
3.0	4680.008	22.489	40.63	0.97%	1.86%
4.0	4626.454	31.152	71.782	1.34%	3.29%
5.0	4558.507	39.513	111.295	1.70%	5.10%
6.0	4473.332	47.465	158.76	2.05%	7.28%
7.0	4378.816	54.945	213.705	2.37%	9.80%
8.0	4277.657	61.953	275.658	2.67%	12.64%
9.0	4171.101	68.473	344.13	2.95%	15.78%
10.0	4053.959	74.434	418.564	3.21%	19.20%
11.0	3926.992	79.746	498.31	3.44%	22.85%
12.0	3777.537	84.222	582.532	3.63%	26.72%
13.0	3633.895	87.955	670.487	3.79%	30.75%
14.0	3471.086	90.943	761.43	3.92%	34.92%
15.0	3299.144	92.945	854.375	4.01%	39.18%
16.0	3113.986	93.970	948.345	4.05%	43.49%
17.0	2920.179	93.968	1042.313	4.05%	47.80%
18.0	2734.053	93.226	1135.539	4.02%	52.08%
19.0	2519.834	91.407	1226.946	3.94%	56.27%
20.0	2311.290	88.423	1315.369	3.81%	60.32%
21.0	2097.971	84.667	1400.036	3.65%	64.21%
22.0	1896.484	80.270	1480.306	3.46%	67.89%
23.0	1707.382	75.619	1555.925	3.26%	71.36%
24.0	1463.757	69.332	1625.257	2.99%	74.53%
25.0	1289.386	62.600	1687.858	2.70%	77.41%
26.0	1158.890	57.792	1745.65	2.49%	80.06%
27.0	1037.472	53.734	1799.384	2.32%	82.52%
28.0	895.421	48.937	1848.321	2.11%	84.76%
29.0	765.513	43.455	1891.775	1.87%	86.76%
30.0	649.491	38.205	1929.98	1.65%	88.51%
31.0	539.040	33.075	1963.055	1.43%	90.03%
32.0	441.680	28.096	1991.152	1.21%	91.31%
33.0	357.356	23.540	2014.692	1.01%	92.39%
34.0	289.354	19.571	2034.263	0.84%	93.29%
35.0	241.715	16.493	2050.756	0.71%	94.05%
36.0	204.622	14.211	2064.968	0.61%	94.70%
37.0	146.881	11.464	2076.432	0.49%	95.23%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	113.170	8.680	2085.112	0.37%	95.62%
39.0	88.517	6.884	2091.996	0.30%	95.94%
40.0	70.991	5.563	2097.559	0.24%	96.19%
41.0	57.858	4.588	2102.147	0.20%	96.41%
42.0	48.912	3.879	2106.027	0.17%	96.58%
43.0	41.709	3.357	2109.383	0.14%	96.74%
44.0	37.073	2.973	2112.357	0.13%	96.87%
45.0	33.420	2.709	2115.066	0.12%	97.00%
46.0	30.444	2.498	2117.564	0.11%	97.11%
47.0	28.078	2.328	2119.891	0.10%	97.22%
48.0	26.016	2.187	2122.078	0.09%	97.32%
49.0	24.335	2.068	2124.146	0.09%	97.41%
50.0	22.854	1.967	2126.113	0.08%	97.50%
51.0	21.657	1.883	2127.996	0.08%	97.59%
52.0	20.585	1.813	2129.809	0.08%	97.67%
53.0	19.685	1.752	2131.561	0.08%	97.75%
54.0	18.917	1.701	2133.262	0.07%	97.83%
55.0	18.246	1.659	2134.921	0.07%	97.91%
56.0	17.665	1.623	2136.544	0.07%	97.98%
57.0	17.153	1.592	2138.136	0.07%	98.06%
58.0	16.696	1.565	2139.701	0.07%	98.13%
59.0	16.302	1.543	2141.244	0.07%	98.20%
60.0	15.928	1.523	2142.766	0.07%	98.27%
61.0	15.589	1.504	2144.27	0.06%	98.34%
62.0	15.250	1.486	2145.756	0.06%	98.41%
63.0	14.973	1.470	2147.226	0.06%	98.47%
64.0	14.696	1.456	2148.682	0.06%	98.54%
65.0	14.420	1.441	2150.123	0.06%	98.61%
66.0	14.143	1.425	2151.548	0.06%	98.67%
67.0	13.859	1.408	2152.956	0.06%	98.74%
68.0	13.610	1.392	2154.348	0.06%	98.80%
69.0	13.340	1.375	2155.722	0.06%	98.86%
70.0	13.105	1.358	2157.081	0.06%	98.92%
71.0	12.842	1.341	2158.422	0.06%	98.99%
72.0	12.634	1.325	2159.746	0.06%	99.05%
73.0	12.399	1.309	2161.055	0.06%	99.11%
74.0	12.185	1.292	2162.348	0.06%	99.17%
75.0	11.991	1.277	2163.625	0.06%	99.22%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.783	1.262	2164.887	0.05%	99.28%
77.0	11.555	1.244	2166.132	0.05%	99.34%
78.0	11.320	1.225	2167.356	0.05%	99.40%
79.0	11.098	1.205	2168.561	0.05%	99.45%
80.0	10.884	1.185	2169.746	0.05%	99.51%
81.0	10.649	1.164	2170.91	0.05%	99.56%
82.0	10.406	1.142	2172.052	0.05%	99.61%
83.0	10.213	1.121	2173.173	0.05%	99.66%
84.0	9.998	1.101	2174.274	0.05%	99.71%
85.0	9.818	1.082	2175.355	0.05%	99.76%
86.0	9.652	1.064	2176.42	0.05%	99.81%
87.0	9.507	1.049	2177.468	0.05%	99.86%
88.0	9.355	1.033	2178.501	0.04%	99.91%
89.0	9.251	1.020	2179.521	0.04%	99.95%
90.0	9.209	1.012	2180.533	0.04%	100.00%

Zonal flux distribution table

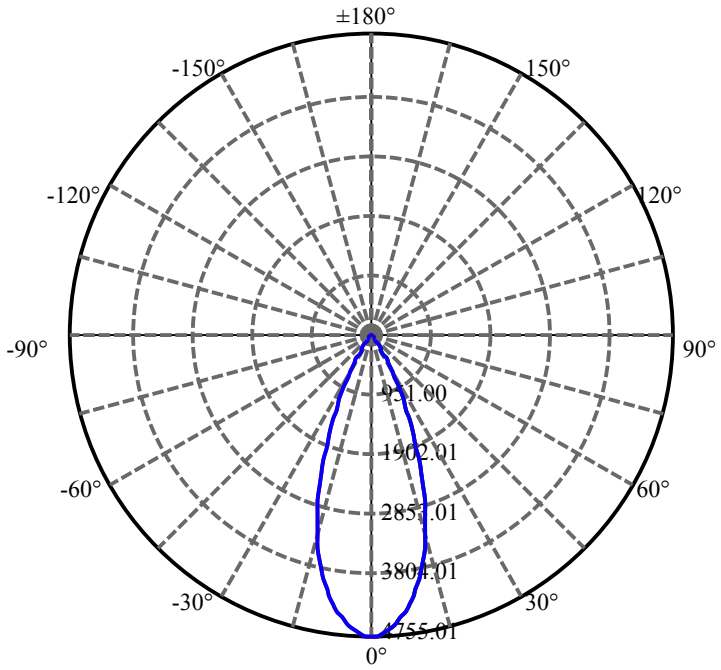
ZONAL LUMEN SUMMARY

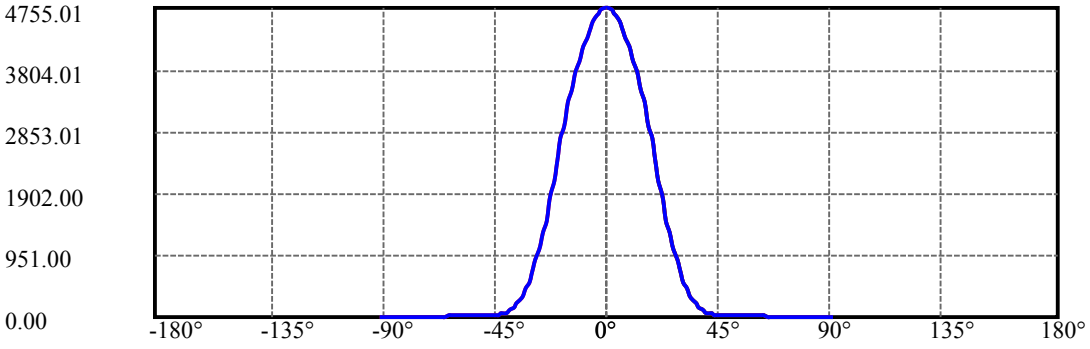
Zone	Lumens	%Lamp	%Fixt
0-30	1929.98	83.19%	88.51%
0-40	2097.56	90.41%	96.19%
0-60	2142.77	92.36%	98.27%
0-90	2179.52	93.95%	99.95%
0-120	2179.52	93.95%	99.95%
0-180	2180.53	93.99%	100.00%
60-90	36.76	1.58%	1.69%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.98	1744.43	75.19%	80.00%

ZONAL LUMEN SUMMARY

0-10	418.56
10-20	896.80
20-30	614.61
30-40	167.58
40-50	28.55
50-60	16.65
60-70	14.31
70-80	12.67
80-90	9.78
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:31.7 Right:31.7
:C90/270Left:31.7 Right:31.7

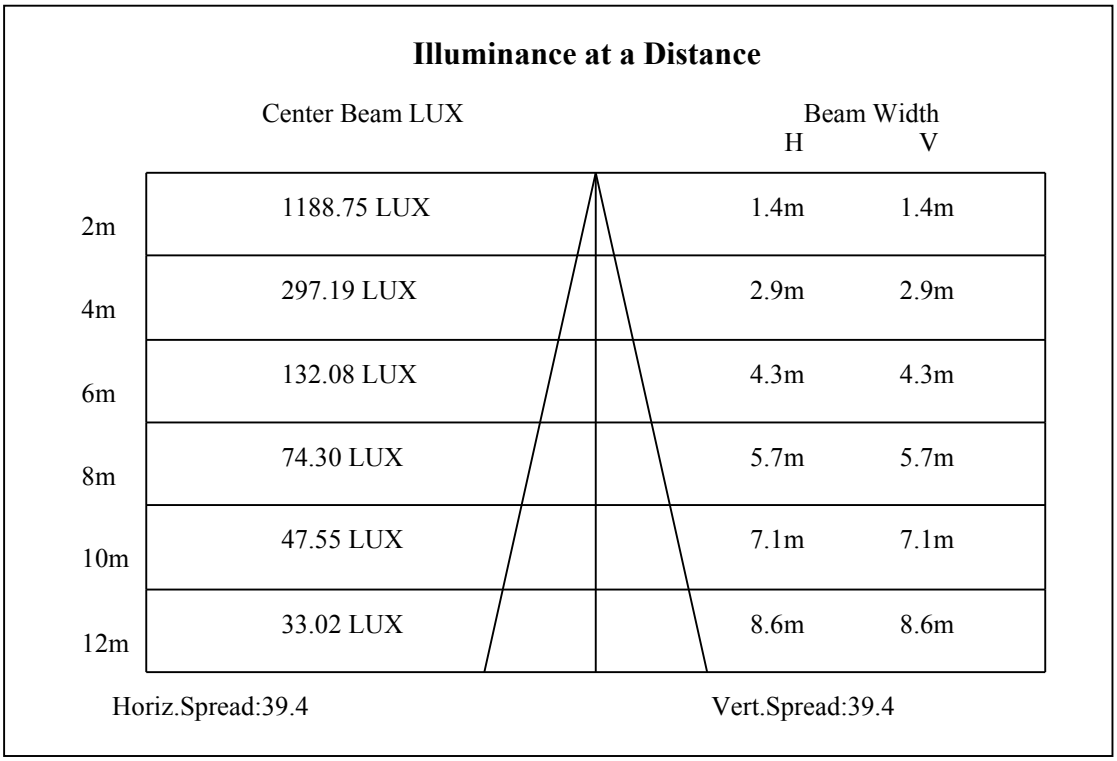
Beam Angle(50%Imax):C0/180Left:19.7 Right:19.7
:C90/270Left:19.7 Right:19.7

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/13
Humidity(%): 0.0%

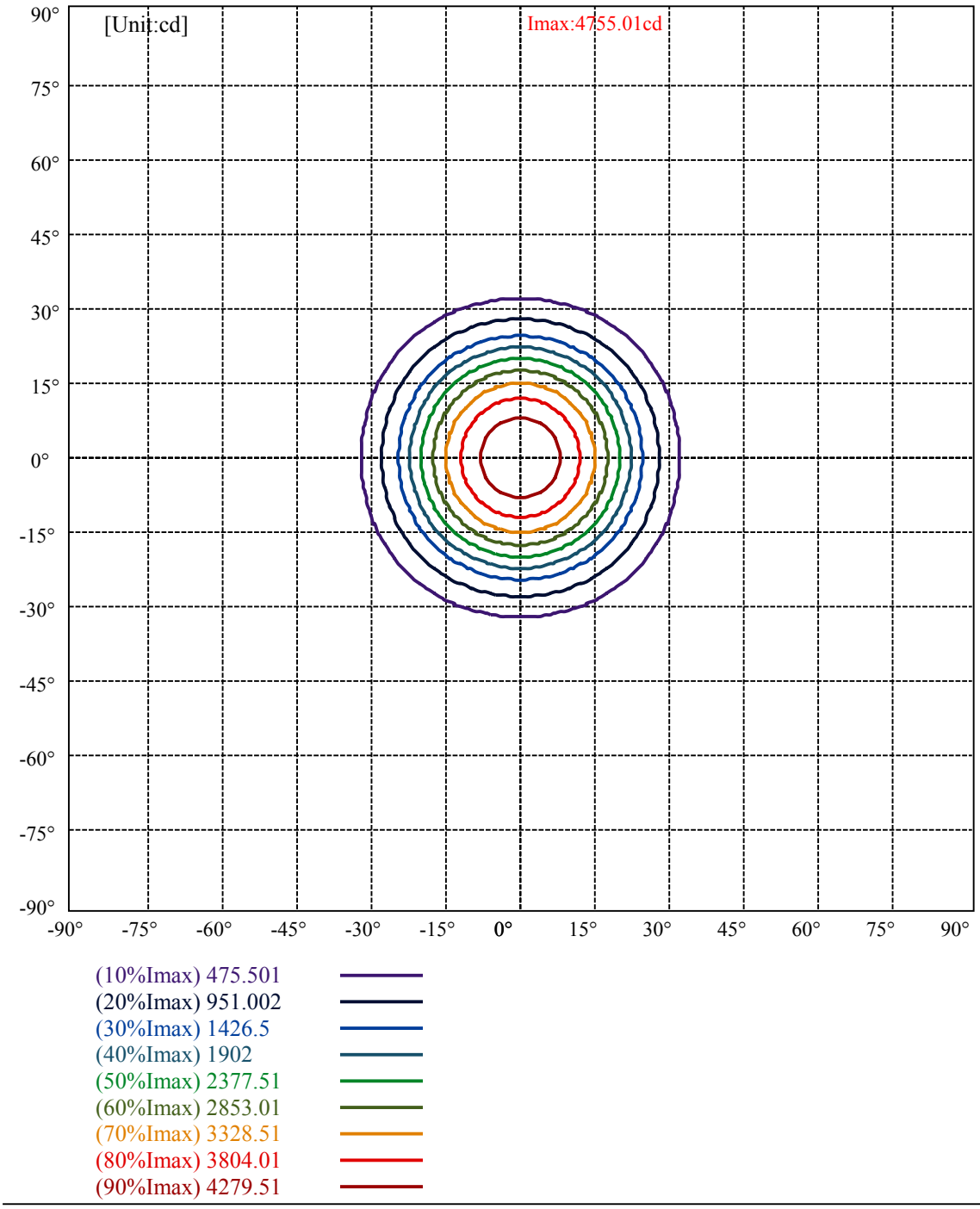
Operator: NT07
Distance(m): 7.44

Lux distance Curve



Equipment: GMS1980 Date: 2023/10/13 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

ISO-Intensity(V-H)

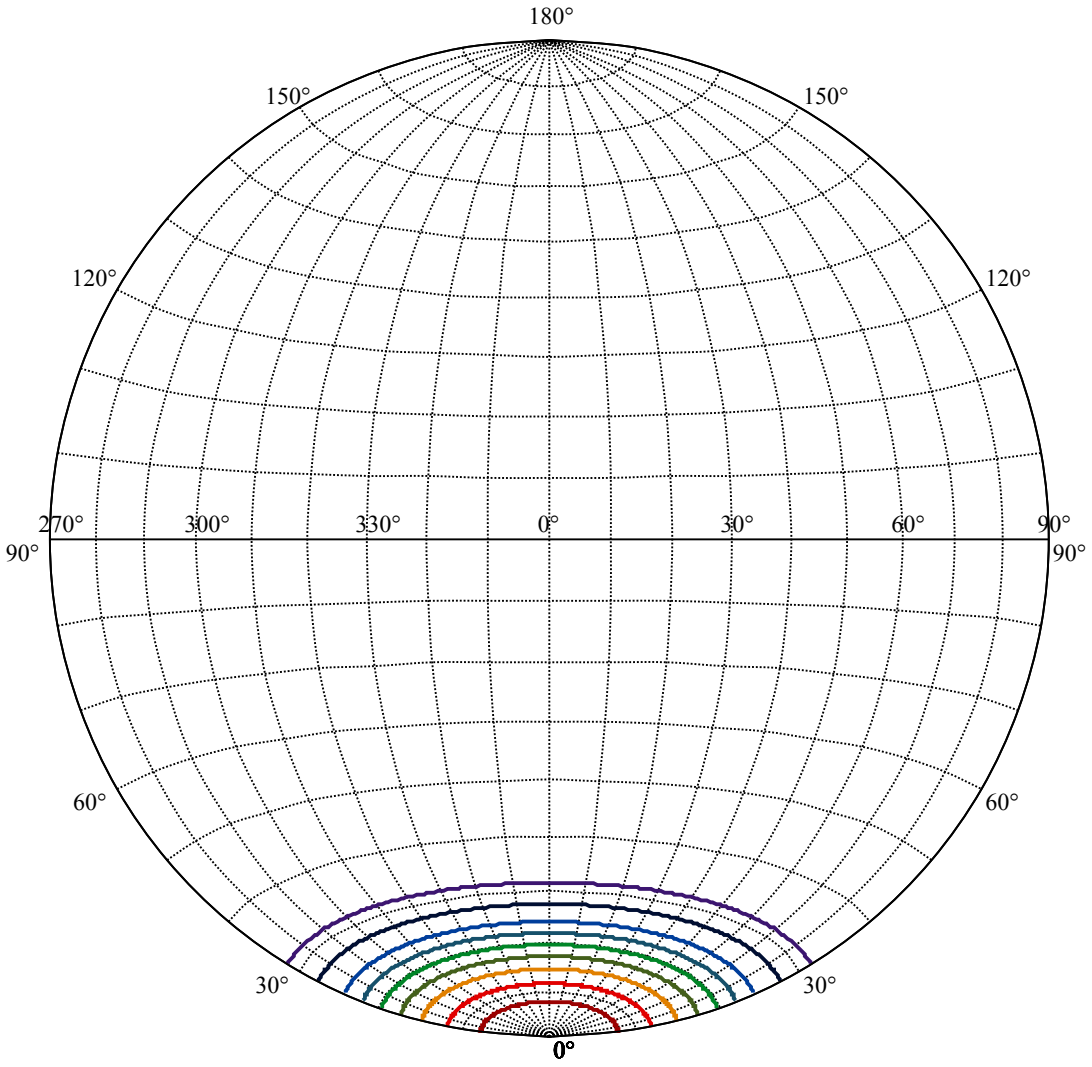


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/13
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:4755.01

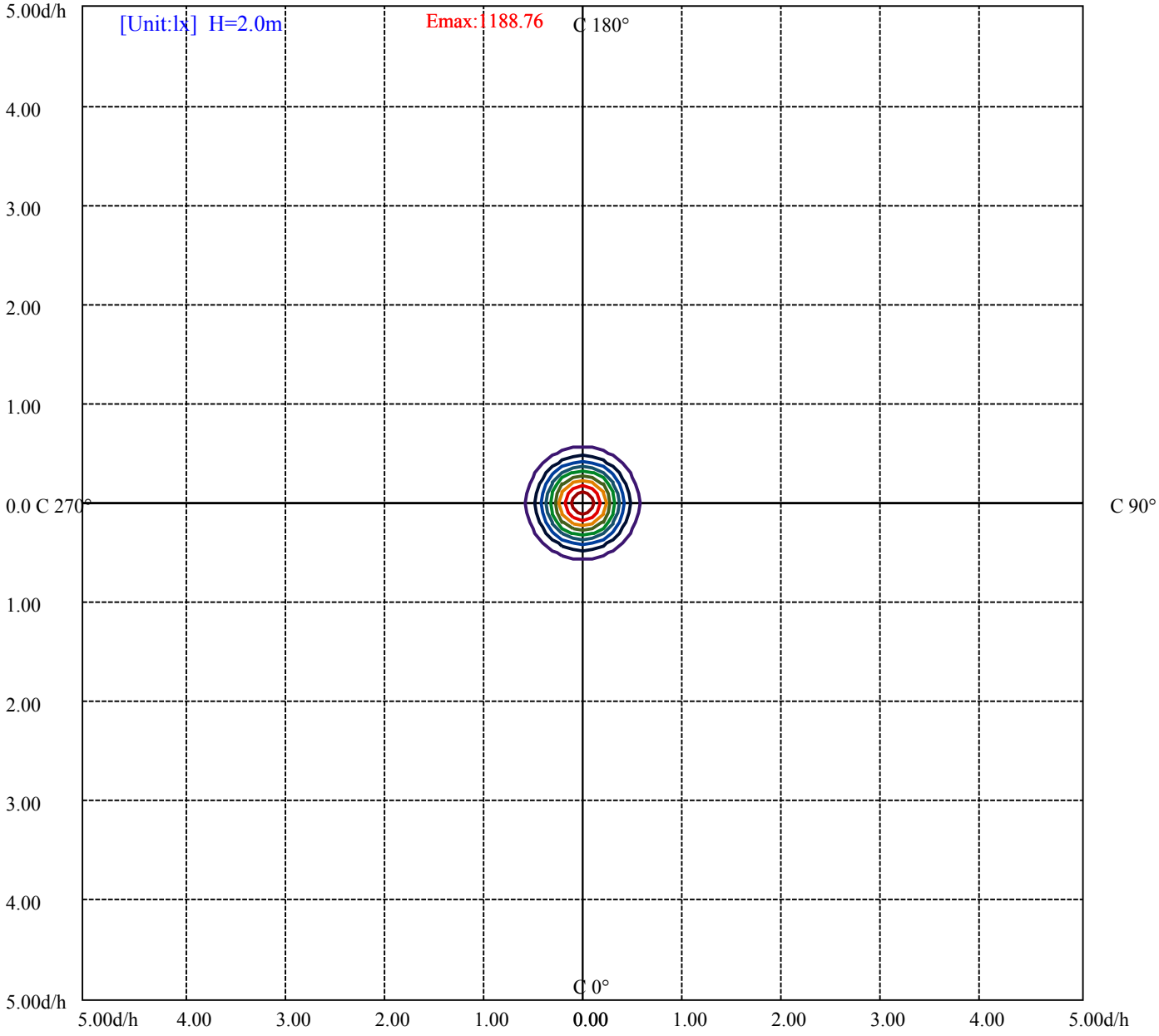
(10%Imax) 475.501
(20%Imax) 951.002
(30%Imax) 1426.5
(40%Imax) 1902
(50%Imax) 2377.51
(60%Imax) 2853.01
(70%Imax) 3328.51
(80%Imax) 3804.01
(90%Imax) 4279.51

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/13
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

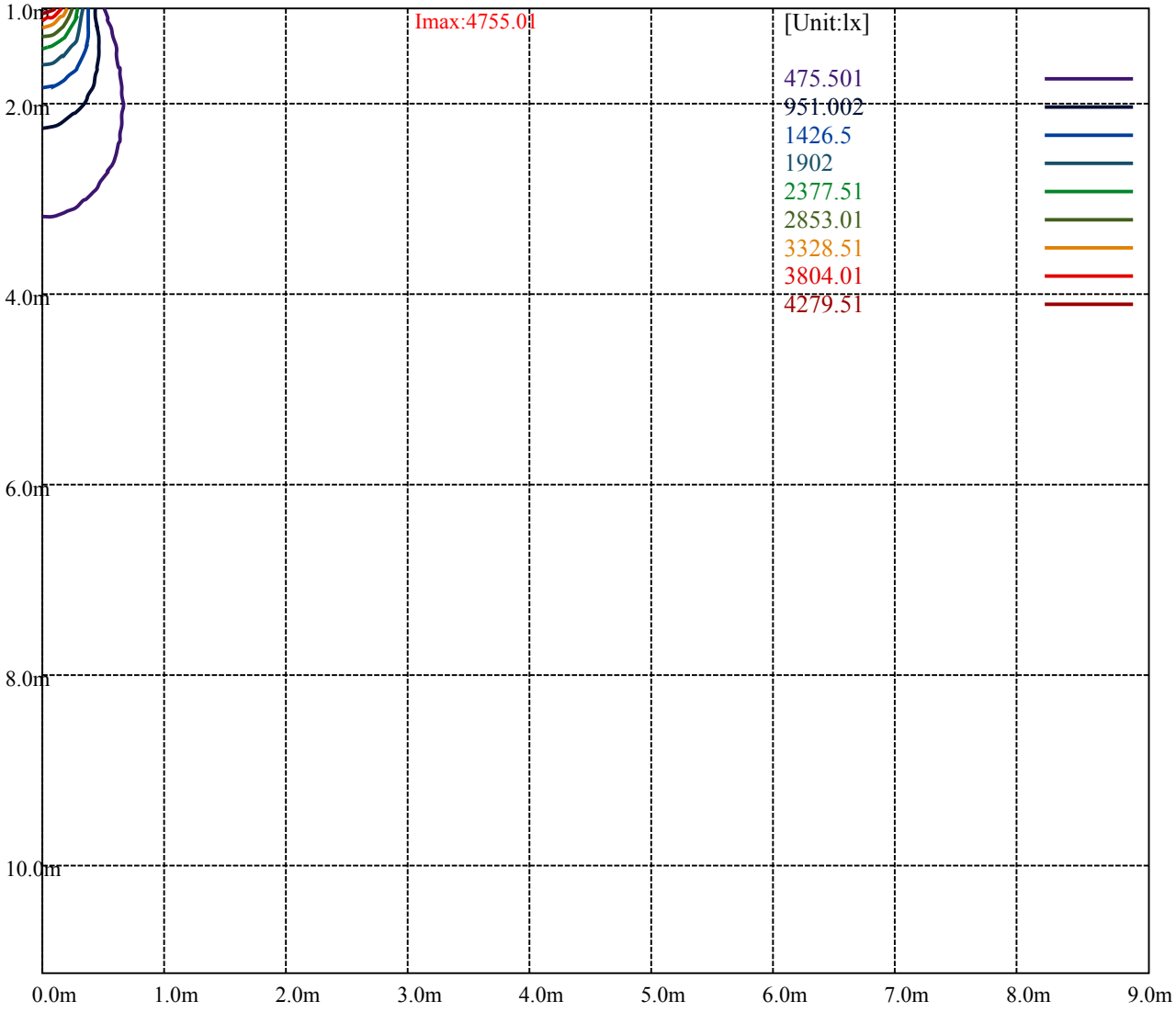
ISO illuminance diagram



(10%Emax) 118.8753
(20%Emax) 237.7505
(30%Emax) 356.625
(40%Emax) 475.5
(50%Emax) 594.3775
(60%Emax) 713.2525
(70%Emax) 832.1275
(80%Emax) 951.0025
(90%Emax) 1069.877

Equipment: GMS1980
Temperature(°C): 0.0
Date: 2023/10/13
Humidity(%): 0.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/13
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

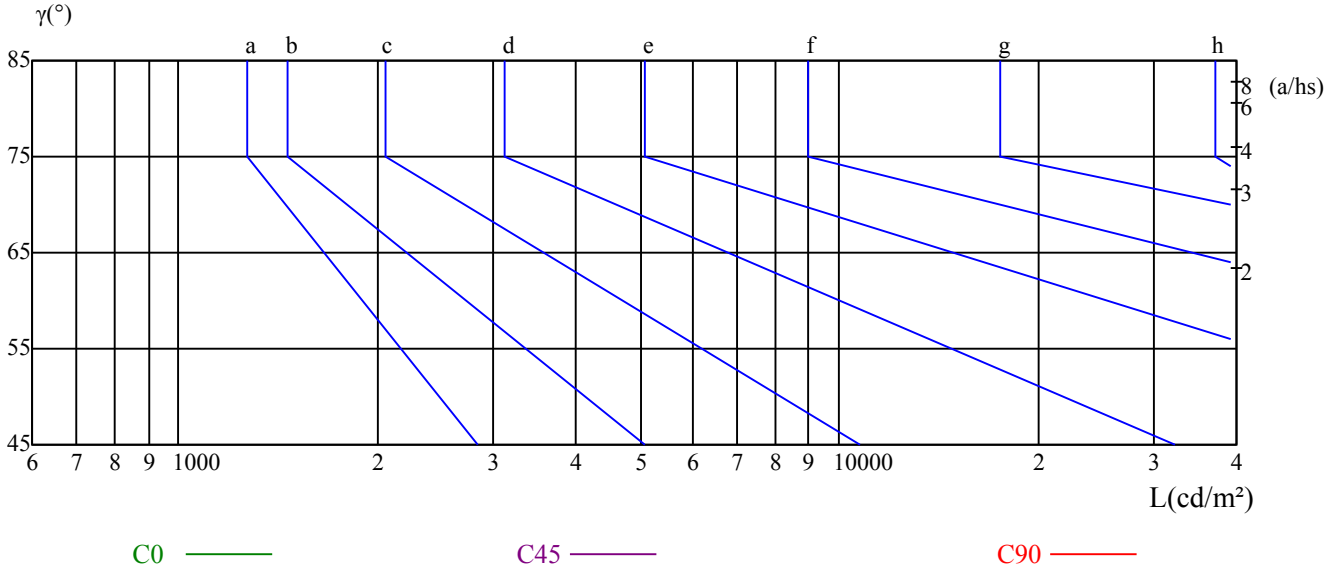
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/13
Humidity(%): 0.0%

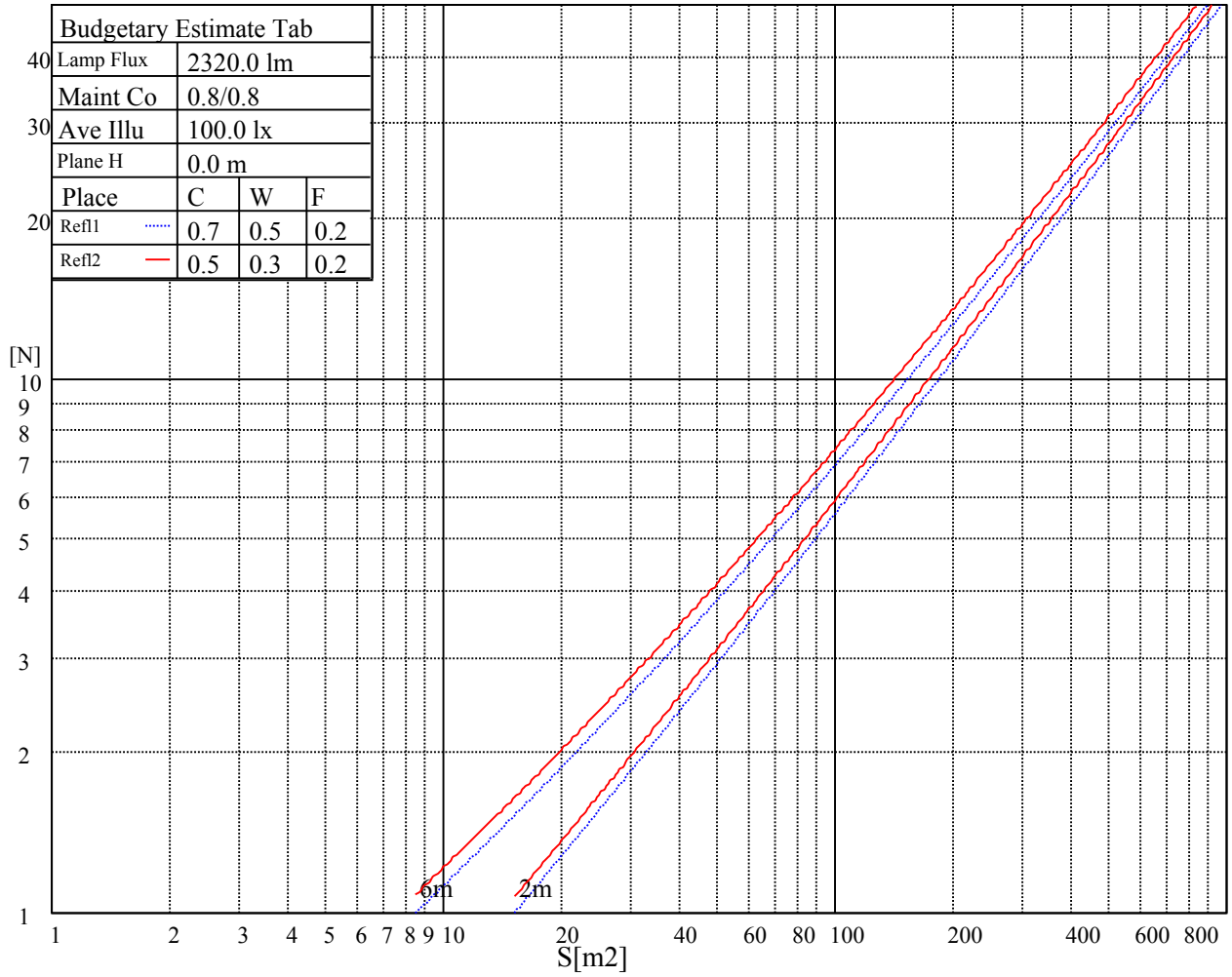
Operator: NT07
Distance(m): 7.44

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

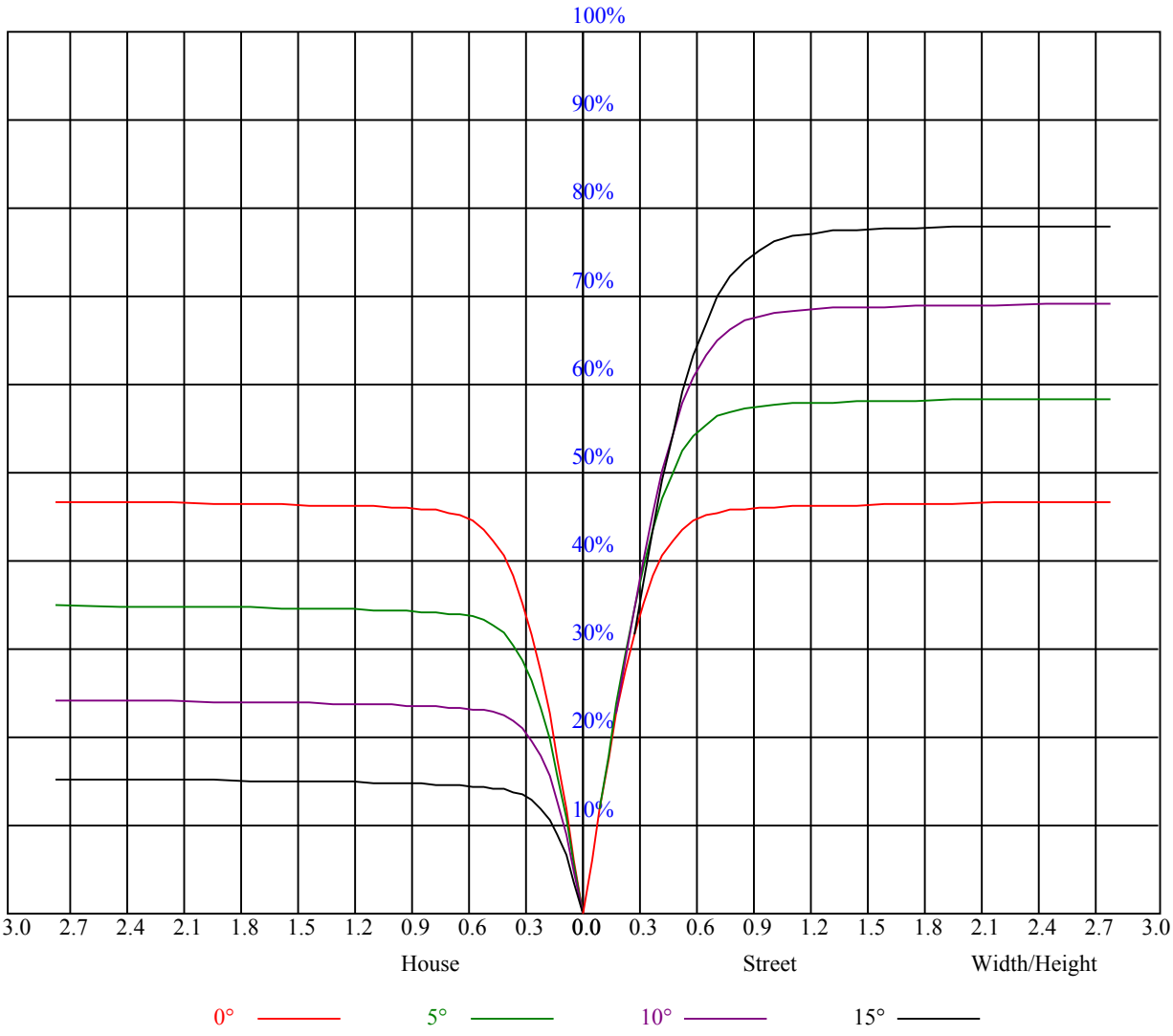


Equipment: GMS1980 Date: 2023/10/13 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.12	1.12	1.12	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89
2	0.99	0.95	0.92	0.97	0.94	0.91	0.94	0.92	0.89	0.91	0.89	0.87	0.89	0.87	0.86	0.84
3	0.93	0.89	0.86	0.92	0.88	0.85	0.90	0.86	0.84	0.87	0.85	0.83	0.85	0.83	0.81	0.80
4	0.88	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.76
5	0.84	0.79	0.76	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
6	0.80	0.75	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.69
7	0.77	0.72	0.69	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.66
8	0.73	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.63
9	0.70	0.66	0.63	0.70	0.66	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.61
10	0.68	0.63	0.60	0.67	0.63	0.60	0.67	0.62	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.58

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/10/13	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	4746.57	4741.59	4705.06	4653.02	4581.62	4512.43	4426.63	4330.87	4199.68
45.0	4771.48	4747.12	4736.61	4691.77	4644.72	4587.71	4515.75	4410.57	4322.01
90.0	4736.61	4712.25	4665.20	4614.83	4547.85	4452.64	4367.40	4275.51	4154.29
135.0	4765.39	4750.45	4704.50	4671.84	4601.54	4518.51	4433.27	4330.87	4234.55
180.0	4746.57	4765.94	4767.61	4707.82	4680.70	4609.85	4530.14	4452.64	4358.54
225.0	4771.48	4753.77	4715.57	4672.40	4603.76	4541.76	4434.93	4334.74	4230.12
270.0	4736.61	4769.27	4749.89	4718.89	4702.84	4643.06	4573.87	4481.43	4396.18
315.0	4765.39	4748.23	4738.82	4709.48	4648.60	4602.10	4504.68	4413.90	4325.88
360.0	4746.57	4741.59	4705.06	4653.02	4581.62	4512.43	4426.63	4330.87	4199.68

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4077.35	3954.46	3818.84	3640.61	3489.49	3294.65	3109.77	2921.01	2683.54
45.0	4230.12	4117.20	3967.75	3836.00	3695.41	3509.42	3344.46	3158.48	2926.54
90.0	4047.46	3933.43	3767.37	3625.66	3476.76	3320.66	3093.71	2908.28	2723.40
135.0	4137.13	4043.03	3933.43	3765.15	3630.09	3485.62	3339.48	3130.80	2951.45
180.0	4234.00	4135.47	4034.72	3923.46	3769.03	3637.29	3497.79	3314.02	3150.17
225.0	4126.61	3990.99	3878.63	3748.55	3612.38	3425.83	3275.27	3115.30	2909.94
270.0	4296.55	4170.89	4055.20	3899.66	3761.28	3611.27	3453.51	3255.90	3085.96
315.0	4219.60	4086.20	3960.00	3781.20	3636.73	3483.96	3279.15	3108.10	2930.42
360.0	4077.35	3954.46	3818.84	3640.61	3489.49	3294.65	3109.77	2921.01	2683.54

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2487.59	2286.10	2081.30	1844.38	1663.38	1489.01	1074.08	1074.08	1008.87
45.0	2744.99	2551.25	2296.62	2091.26	1895.31	1710.98	1491.78	1330.15	1175.71
90.0	2533.53	2282.23	2078.53	1838.29	1661.16	1487.90	1076.96	1076.96	1010.65
135.0	2767.68	2526.34	2331.49	2088.49	1899.18	1718.73	1544.37	1334.02	1177.37
180.0	2989.09	2775.43	2583.35	2388.51	2141.08	1944.02	1770.21	1599.72	1389.38
225.0	2737.79	2503.09	2312.12	2119.49	1935.72	1712.09	1549.35	1270.92	1081.94
270.0	2919.90	2740.56	2513.05	2319.32	2125.02	1924.09	1698.80	1531.08	1329.04
315.0	2691.85	2493.68	2293.85	2094.03	1851.02	1672.23	1504.51	1098.16	1098.16
360.0	2487.59	2286.10	2081.30	1844.38	1663.38	1489.01	1074.08	1074.08	1008.87

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	881.67	763.55	624.00	525.14	437.40	340.31	276.10	210.40	167.50
45.0	1036.77	876.25	755.58	643.76	522.54	438.95	347.62	287.29	287.29
90.0	852.11	735.43	626.44	529.46	424.73	352.49	290.33	236.64	180.84
135.0	1030.13	867.39	748.38	639.89	542.47	455.56	361.46	298.36	284.52
180.0	1237.15	1093.23	950.42	792.11	671.99	562.95	446.15	367.55	283.96
225.0	1044.80	907.80	779.21	658.04	524.64	434.47	354.71	274.06	221.91
270.0	1185.67	1012.42	880.12	758.90	643.21	515.34	426.22	350.39	285.07
315.0	1031.46	907.30	759.95	648.63	545.34	433.36	356.26	290.16	222.63
360.0	881.67	763.55	624.00	525.14	437.40	340.31	276.10	210.40	167.50

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	133.24	106.50	81.09	66.42	55.24	46.66	39.19	34.98	31.77
45.0	222.52	139.66	111.65	89.40	72.07	56.79	48.21	42.07	37.53
90.0	144.64	115.30	91.78	69.63	57.18	46.50	40.68	36.42	32.33
135.0	220.03	145.64	115.30	86.46	69.69	54.91	46.88	41.18	36.92
180.0	283.96	216.49	142.26	107.00	86.30	70.19	58.12	47.27	41.29
225.0	168.77	135.51	109.21	84.14	69.03	57.46	49.04	41.57	37.31
270.0	285.07	172.70	139.05	111.92	86.13	70.74	58.84	48.16	42.07
315.0	178.74	143.26	115.02	93.16	72.29	59.62	50.32	42.01	37.36
360.0	133.24	106.50	81.09	66.42	55.24	46.66	39.19	34.98	31.77

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	29.23	26.63	24.91	23.14	21.98	20.92	19.82	19.15	18.49
45.0	33.27	30.67	28.45	26.07	24.47	22.75	21.64	20.70	19.87
90.0	29.84	27.68	25.85	23.97	22.69	21.59	20.59	19.60	18.88
135.0	32.77	30.17	27.95	26.07	24.02	22.69	21.59	20.31	19.54
180.0	36.92	33.54	30.22	28.06	26.24	24.24	22.92	21.42	20.43
225.0	33.93	31.27	28.56	26.68	25.08	23.36	22.20	21.15	20.04
270.0	37.59	33.27	30.61	28.40	26.07	24.47	23.14	21.98	20.70
315.0	33.82	30.33	28.06	25.74	24.13	22.81	21.37	20.37	19.54
360.0	29.23	26.63	24.91	23.14	21.98	20.92	19.82	19.15	18.49

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.77	17.33	16.94	16.50	16.05	15.78	15.50	15.17	14.78
45.0	18.99	18.38	17.82	17.27	16.83	16.44	16.11	15.72	15.39
90.0	18.21	17.60	17.05	16.66	16.22	15.89	15.55	15.17	14.95
135.0	18.76	17.99	17.44	16.83	16.38	16.00	15.67	15.28	15.00
180.0	19.60	18.71	18.10	17.55	17.10	16.55	16.16	15.83	15.50
225.0	19.32	18.65	17.93	17.49	16.99	16.61	16.16	15.89	15.50
270.0	19.87	19.15	18.54	17.82	17.33	16.88	16.38	16.05	15.67
315.0	18.82	18.16	17.49	17.10	16.66	16.27	15.89	15.61	15.22
360.0	17.77	17.33	16.94	16.50	16.05	15.78	15.50	15.17	14.78

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.61	14.39	14.00	13.73	13.51	13.23	12.95	12.79	12.51
45.0	15.11	14.78	14.56	14.28	13.95	13.73	13.45	13.17	12.90
90.0	14.67	14.45	14.12	13.89	13.67	13.34	13.12	12.90	12.62
135.0	14.72	14.50	14.28	13.95	13.73	13.51	13.28	13.01	12.73
180.0	15.17	14.83	14.61	14.34	14.00	13.78	13.51	13.28	13.06
225.0	15.22	14.89	14.61	14.39	14.00	13.78	13.45	13.23	12.95
270.0	15.33	15.06	14.78	14.45	14.17	13.89	13.67	13.40	13.12
315.0	14.95	14.67	14.39	14.12	13.84	13.62	13.28	13.06	12.84
360.0	14.61	14.39	14.00	13.73	13.51	13.23	12.95	12.79	12.51

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.34	12.12	11.96	11.73	11.51	11.29	11.07	10.85	10.63
45.0	12.73	12.45	12.18	12.01	11.85	11.62	11.35	11.13	10.96
90.0	12.40	12.23	12.01	11.85	11.57	11.29	11.07	10.90	10.68
135.0	12.51	12.34	12.07	11.90	11.73	11.51	11.24	11.02	10.85
180.0	12.79	12.57	12.40	12.18	11.96	11.79	11.57	11.35	11.07
225.0	12.79	12.45	12.29	12.07	11.90	11.62	11.40	11.18	10.96
270.0	12.90	12.62	12.40	12.18	12.01	11.79	11.57	11.29	11.07
315.0	12.62	12.40	12.18	12.01	11.73	11.51	11.29	11.07	10.85
360.0	12.34	12.12	11.96	11.73	11.51	11.29	11.07	10.85	10.63

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.41	10.19	10.02	9.85	9.69	9.52	9.35	9.24	9.19
45.0	10.63	10.41	10.19	9.96	9.74	9.63	9.52	9.30	9.19
90.0	10.41	10.19	10.02	9.85	9.69	9.58	9.41	9.24	9.19
135.0	10.63	10.35	10.19	9.91	9.74	9.63	9.47	9.30	9.19
180.0	10.90	10.63	10.41	10.19	10.02	9.80	9.63	9.52	9.41
225.0	10.74	10.46	10.30	10.07	9.91	9.69	9.52	9.41	9.30
270.0	10.90	10.63	10.41	10.19	9.96	9.74	9.63	9.47	9.30
315.0	10.57	10.41	10.19	9.96	9.80	9.63	9.52	9.35	9.24
360.0	10.41	10.19	10.02	9.85	9.69	9.52	9.35	9.24	9.19

Intensity data(cd)

C/γ(°)	90.0
0.0	9.24
45.0	9.19
90.0	9.19
135.0	9.19
180.0	9.30
225.0	9.19
270.0	9.19
315.0	9.19
360.0	9.24