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NATA

LumCAT: 2-2641-L
Luminaire: 92.70.412.00
LampCAT: LUMINUS CXM-14-AC40
Ballast type: AC

Report No: 20231013-B011	Voltage(V): 33.9900
Test No: 20231013-C011	Current(A): 0.5300
Number of Lamps: 1	Power (W): 18.0140
Lamp flux(lm): 2320.0	PF: 0.0000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2126.68, Efficiency(%): 91.67% , Luminous Efficacy(lm/W): 118.06
Central intensity(cd): 4677.102, Maximum intensity(cd): 4677.102
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=36.8
[C90/270]Total=36.8
Field angle(10%Imax): [C0/180]Total=65.4
[C90/270]Total=65.4
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(%): 91.67%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.921%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4677.102	0.000	0	0.00%	0.00%
1.0	4663.956	4.470	4.47	0.19%	0.21%
2.0	4635.103	13.347	17.816	0.58%	0.84%
3.0	4586.599	22.055	39.872	0.95%	1.87%
4.0	4520.244	30.484	70.355	1.31%	3.31%
5.0	4436.799	38.533	108.888	1.66%	5.12%
6.0	4339.515	46.122	155.01	1.99%	7.29%
7.0	4222.926	53.147	208.157	2.29%	9.79%
8.0	4100.041	59.566	267.723	2.57%	12.59%
9.0	3962.003	65.338	333.061	2.82%	15.66%
10.0	3809.089	70.326	403.387	3.03%	18.97%
11.0	3647.941	74.511	477.898	3.21%	22.47%
12.0	3481.672	77.937	555.835	3.36%	26.14%
13.0	3316.027	80.672	636.506	3.48%	29.93%
14.0	3142.977	82.675	719.181	3.56%	33.82%
15.0	2968.544	83.902	803.082	3.62%	37.76%
16.0	2784.632	84.300	887.383	3.63%	41.73%
17.0	2611.237	84.028	971.411	3.62%	45.68%
18.0	2422.619	82.997	1054.408	3.58%	49.58%
19.0	2226.945	80.893	1135.301	3.49%	53.38%
20.0	2046.423	78.214	1213.516	3.37%	57.06%
21.0	1874.619	75.292	1288.807	3.25%	60.60%
22.0	1715.685	72.149	1360.956	3.11%	63.99%
23.0	1563.601	68.808	1429.764	2.97%	67.23%
24.0	1396.502	64.718	1494.483	2.79%	70.27%
25.0	1255.364	60.298	1554.781	2.60%	73.11%
26.0	1162.626	57.077	1611.857	2.46%	75.79%
27.0	1065.515	54.512	1666.369	2.35%	78.36%
28.0	939.911	50.773	1717.143	2.19%	80.74%
29.0	824.381	46.159	1763.301	1.99%	82.91%
30.0	717.168	41.622	1804.923	1.79%	84.87%
31.0	616.570	37.116	1842.039	1.60%	86.62%
32.0	521.313	32.599	1874.638	1.41%	88.15%
33.0	439.881	28.317	1902.955	1.22%	89.48%
34.0	366.752	24.411	1927.366	1.05%	90.63%
35.0	296.183	20.588	1947.955	0.89%	91.60%
36.0	249.956	17.389	1965.344	0.75%	92.41%
37.0	212.959	15.098	1980.441	0.65%	93.12%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	157.779	12.375	1992.816	0.53%	93.71%
39.0	110.154	9.145	2001.961	0.39%	94.14%
40.0	92.655	7.073	2009.035	0.30%	94.47%
41.0	82.539	6.239	2015.273	0.27%	94.76%
42.0	74.887	5.720	2020.993	0.25%	95.03%
43.0	68.403	5.308	2026.301	0.23%	95.28%
44.0	62.937	4.957	2031.258	0.21%	95.51%
45.0	58.135	4.653	2035.911	0.20%	95.73%
46.0	53.679	4.373	2040.284	0.19%	95.94%
47.0	49.901	4.120	2044.403	0.18%	96.13%
48.0	46.393	3.893	2048.296	0.17%	96.31%
49.0	43.120	3.676	2051.972	0.16%	96.49%
50.0	40.263	3.477	2055.448	0.15%	96.65%
51.0	37.571	3.293	2058.741	0.14%	96.81%
52.0	35.246	3.125	2061.866	0.13%	96.95%
53.0	33.150	2.975	2064.841	0.13%	97.09%
54.0	31.233	2.838	2067.679	0.12%	97.23%
55.0	29.517	2.712	2070.391	0.12%	97.35%
56.0	27.960	2.597	2072.988	0.11%	97.48%
57.0	26.632	2.496	2075.484	0.11%	97.59%
58.0	25.414	2.407	2077.891	0.10%	97.71%
59.0	24.279	2.323	2080.214	0.10%	97.82%
60.0	23.235	2.245	2082.459	0.10%	97.92%
61.0	22.321	2.174	2084.633	0.09%	98.02%
62.0	21.408	2.107	2086.74	0.09%	98.12%
63.0	20.592	2.043	2088.783	0.09%	98.22%
64.0	19.865	1.985	2090.768	0.09%	98.31%
65.0	19.166	1.932	2092.7	0.08%	98.40%
66.0	18.454	1.877	2094.577	0.08%	98.49%
67.0	17.817	1.824	2096.4	0.08%	98.58%
68.0	17.208	1.774	2098.175	0.08%	98.66%
69.0	16.613	1.725	2099.9	0.07%	98.74%
70.0	16.053	1.678	2101.578	0.07%	98.82%
71.0	15.534	1.633	2103.21	0.07%	98.90%
72.0	15.015	1.588	2104.799	0.07%	98.97%
73.0	14.510	1.544	2106.343	0.07%	99.04%
74.0	14.053	1.502	2107.844	0.06%	99.11%
75.0	13.548	1.458	2109.302	0.06%	99.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.098	1.414	2110.717	0.06%	99.25%
77.0	12.641	1.372	2112.089	0.06%	99.31%
78.0	12.247	1.332	2113.422	0.06%	99.38%
79.0	11.797	1.292	2114.713	0.06%	99.44%
80.0	11.424	1.252	2115.965	0.05%	99.50%
81.0	11.029	1.214	2117.18	0.05%	99.55%
82.0	10.628	1.174	2118.354	0.05%	99.61%
83.0	10.261	1.136	2119.49	0.05%	99.66%
84.0	9.964	1.102	2120.591	0.05%	99.71%
85.0	9.708	1.074	2121.665	0.05%	99.76%
86.0	9.465	1.048	2122.713	0.05%	99.81%
87.0	9.251	1.024	2123.737	0.04%	99.86%
88.0	9.023	1.001	2124.738	0.04%	99.91%
89.0	8.836	0.979	2125.717	0.04%	99.95%
90.0	8.746	0.964	2126.681	0.04%	100.00%

Zonal flux distribution table

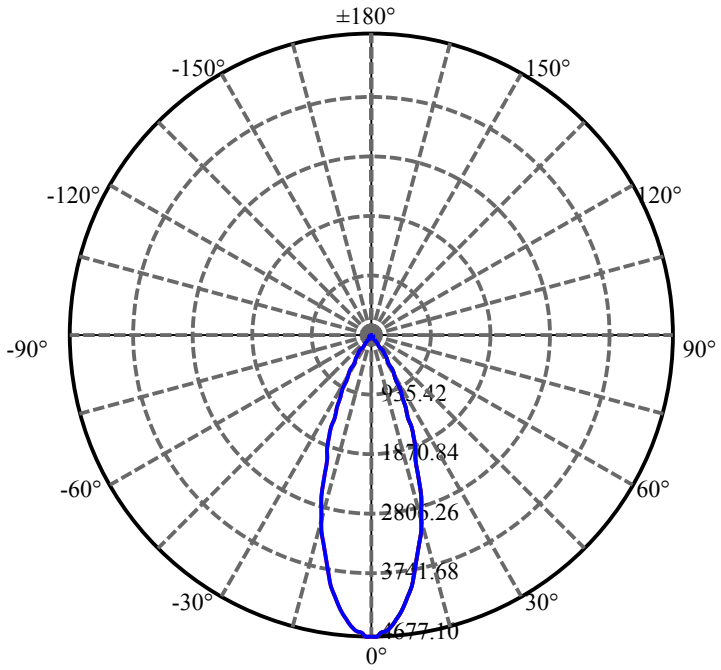
ZONAL LUMEN SUMMARY

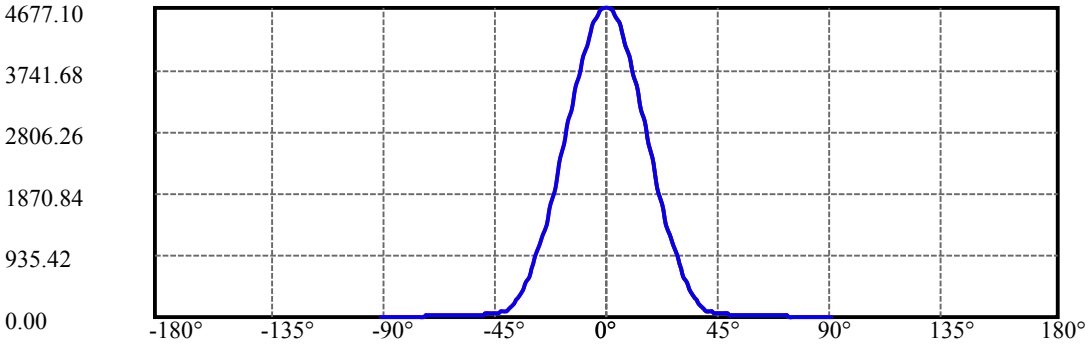
Zone	Lumens	%Lamp	%Fixt
0-30	1804.92	77.80%	84.87%
0-40	2009.03	86.60%	94.47%
0-60	2082.46	89.76%	97.92%
0-90	2125.72	91.63%	99.95%
0-120	2125.72	91.63%	99.95%
0-180	2126.68	91.67%	100.00%
60-90	43.26	1.86%	2.03%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.69	1701.35	73.33%	80.00%

ZONAL LUMEN SUMMARY

0-10	403.39
10-20	810.13
20-30	591.41
30-40	204.11
40-50	46.41
50-60	27.01
60-70	19.12
70-80	14.39
80-90	9.75
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:32.7 Right:32.7
:C90/270Left:32.7 Right:32.7

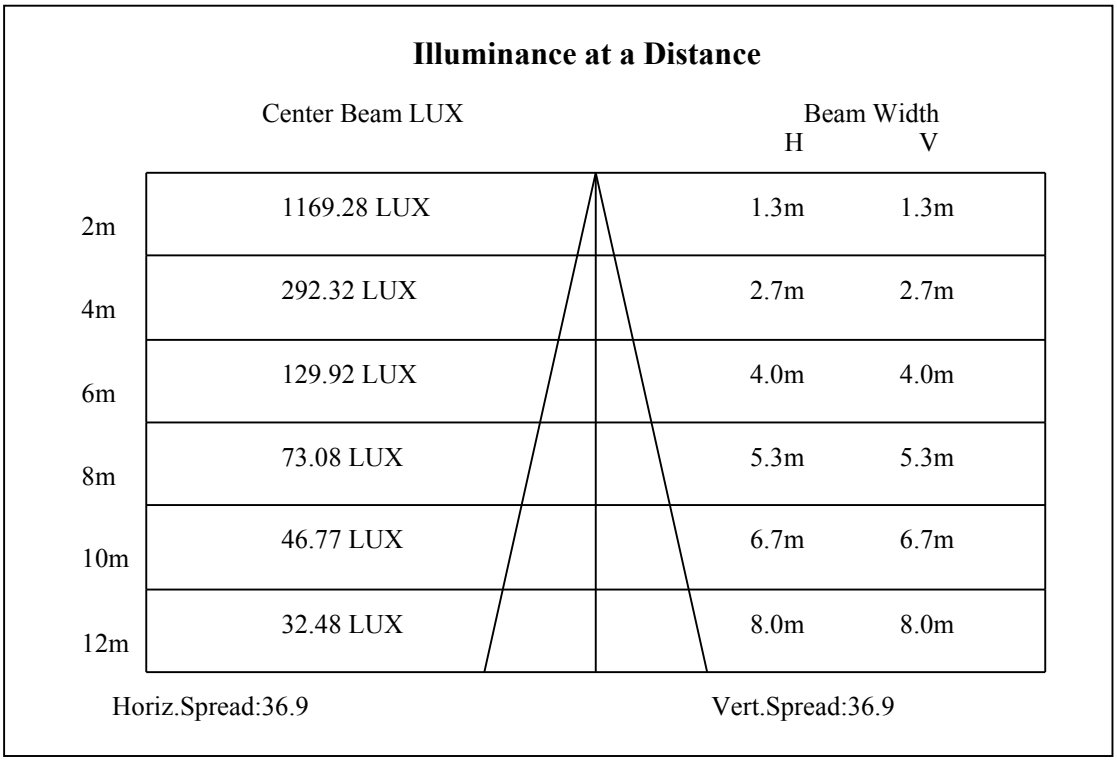
Beam Angle(50%Imax):C0/180Left:18.4 Right:18.4
:C90/270Left:18.4 Right:18.4

Equipment: GMS1980
Temperature(°C): 0.0

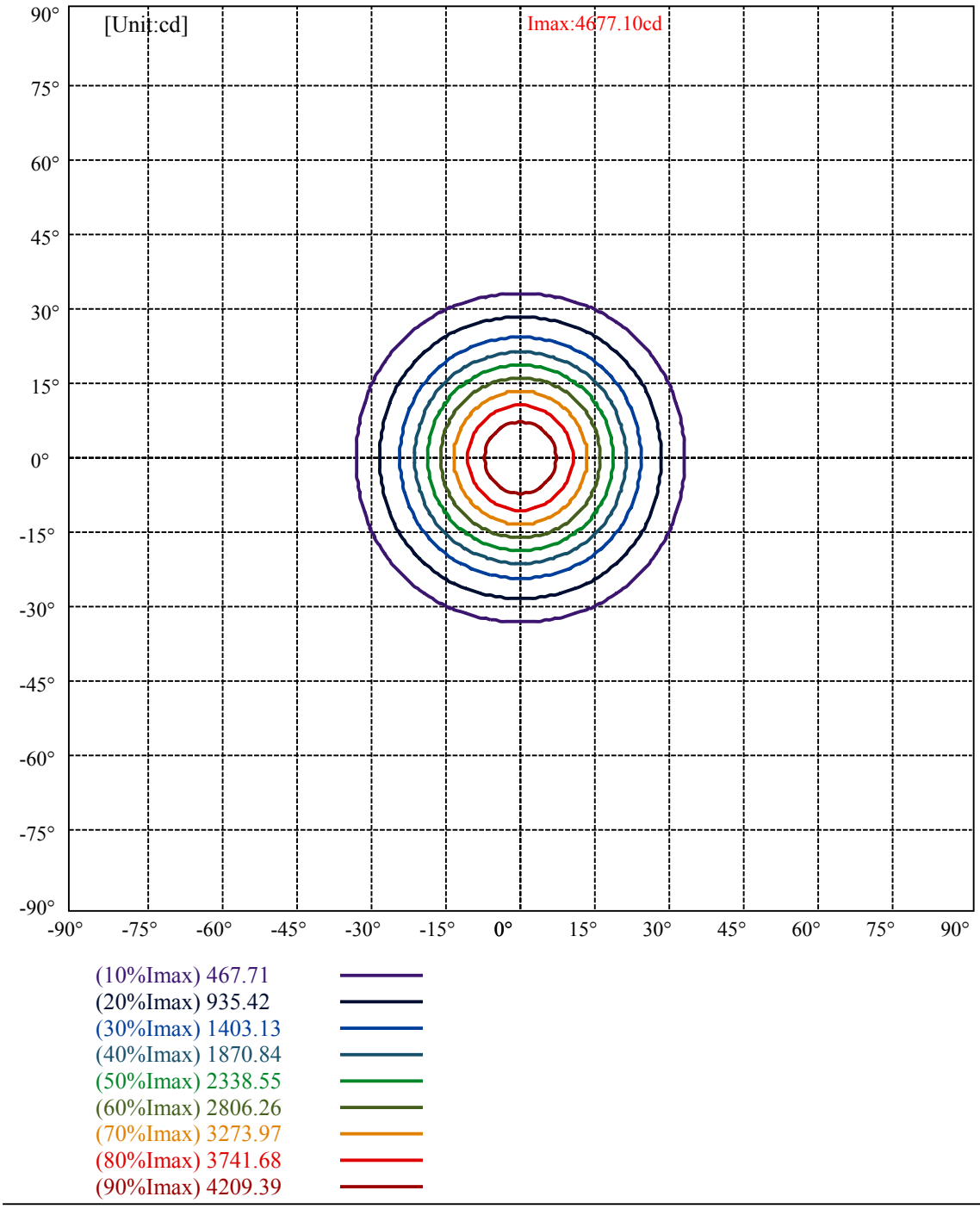
Date: 2023/10/13
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Lux distance Curve



ISO-Intensity(V-H)

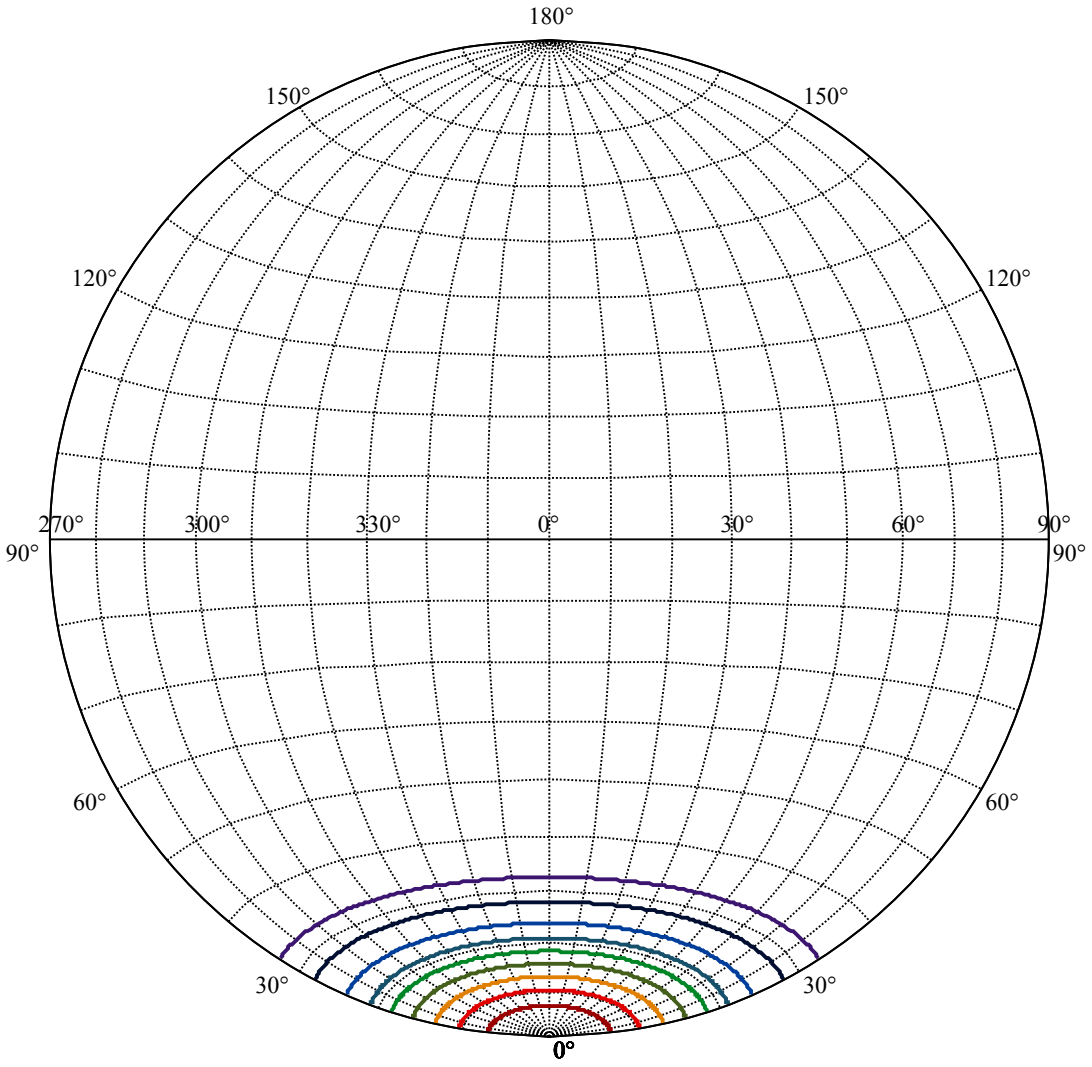


Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:4677.10

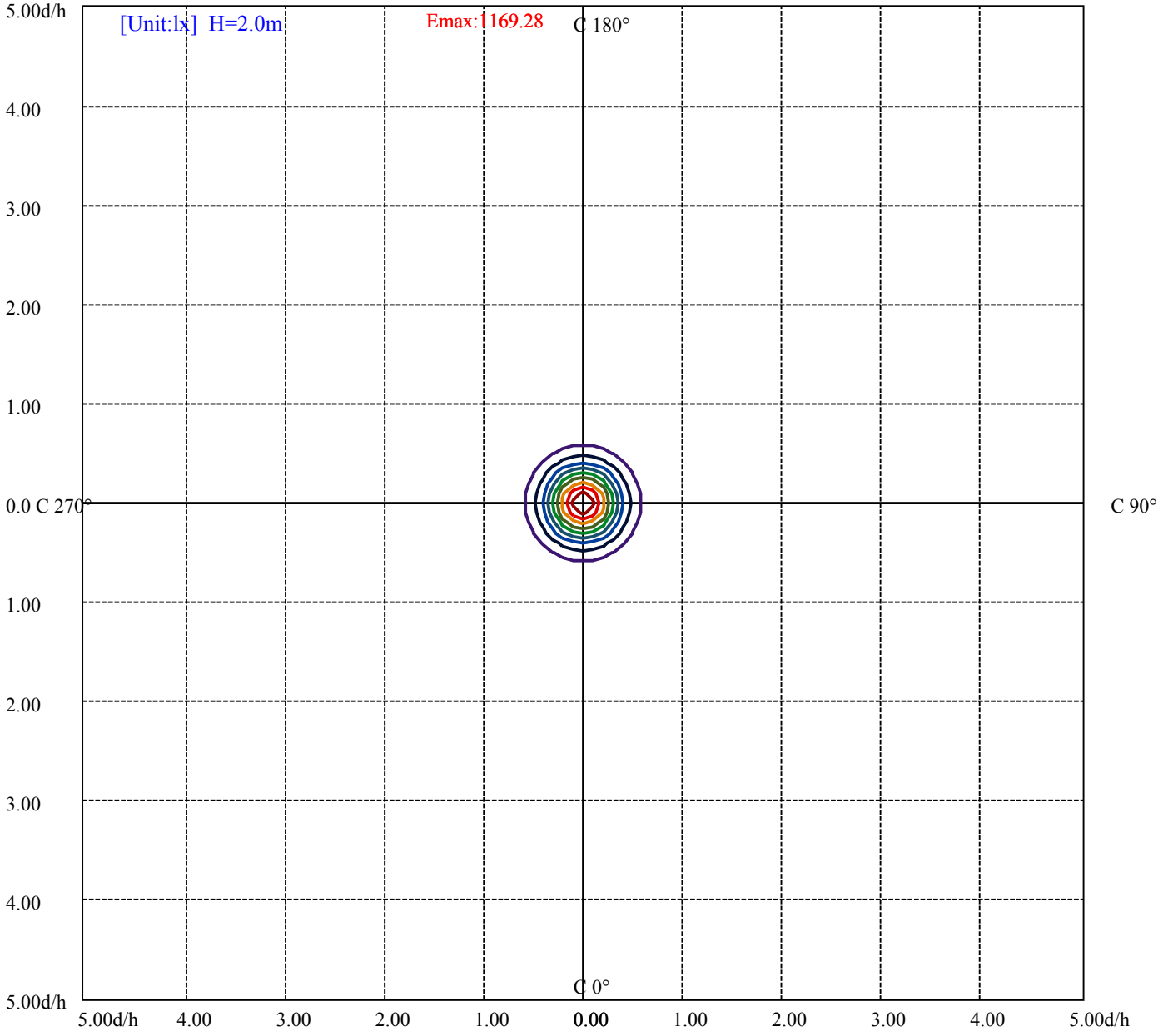
(10%Imax) 467.71
(20%Imax) 935.42
(30%Imax) 1403.13
(40%Imax) 1870.84
(50%Imax) 2338.55
(60%Imax) 2806.26
(70%Imax) 3273.97
(80%Imax) 3741.68
(90%Imax) 4209.39

Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

ISO illuminance diagram



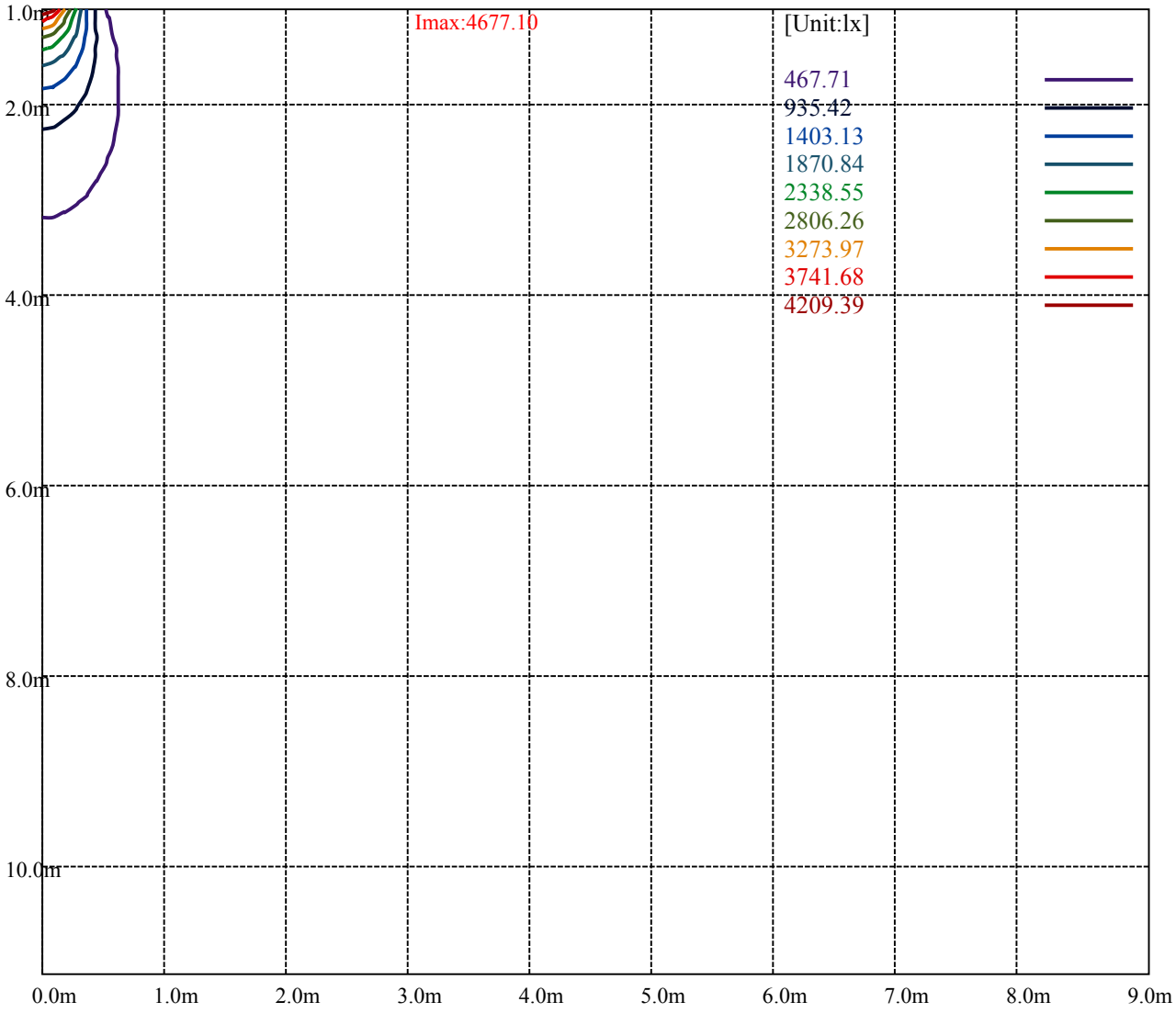
(10%Emax) 116.9275
(20%Emax) 233.855
(30%Emax) 350.7825
(40%Emax) 467.71
(50%Emax) 584.6375
(60%Emax) 701.565
(70%Emax) 818.4925
(80%Emax) 935.42
(90%Emax) 1052.348

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

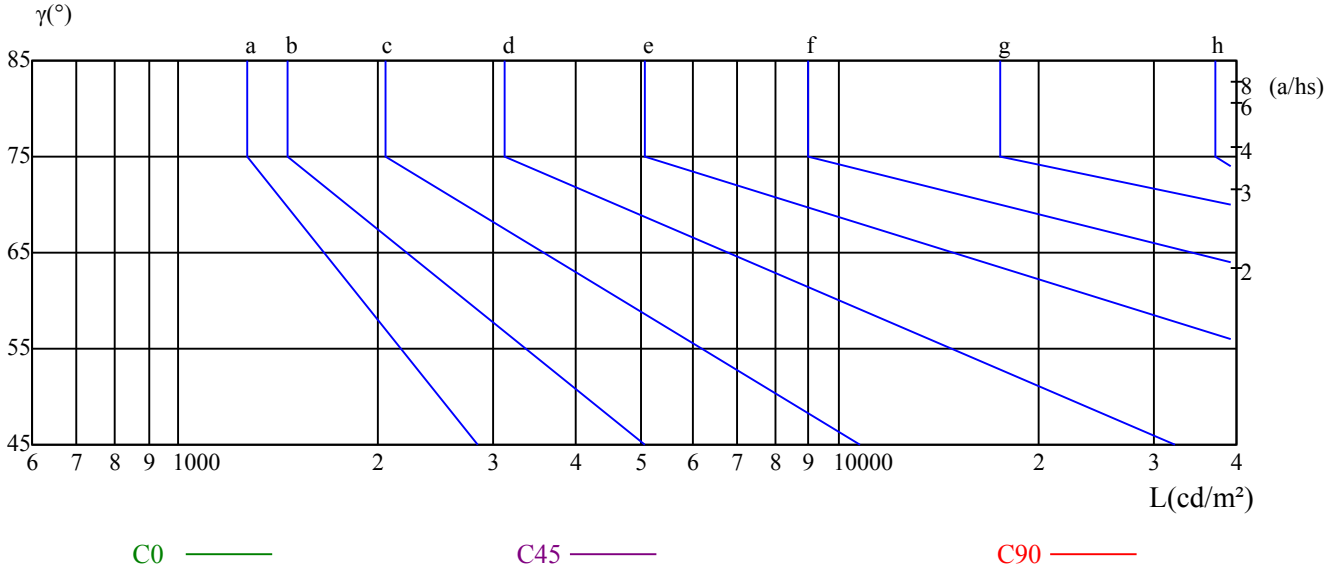
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

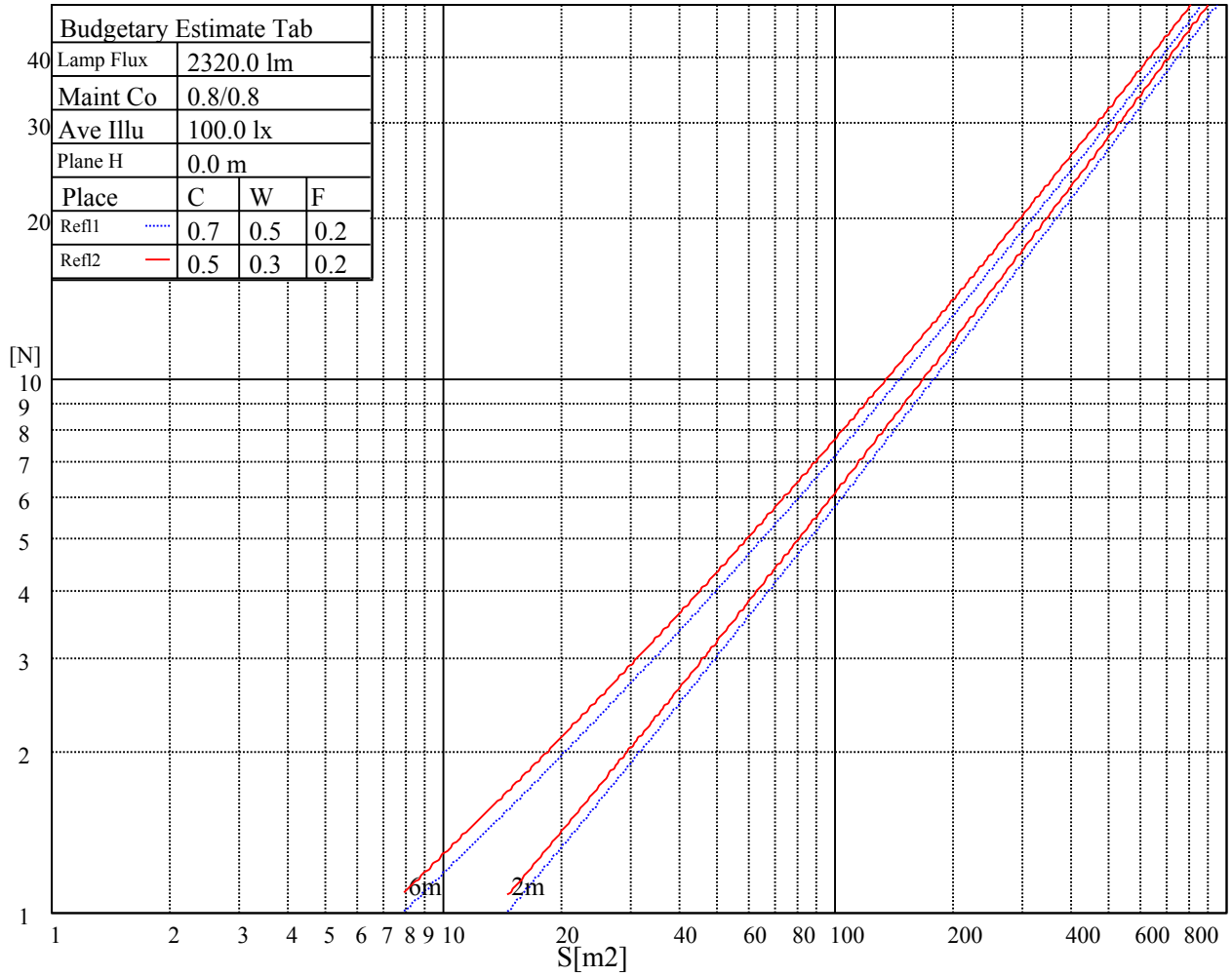


Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions	Viewed crosswise					Viewed endwise				
X Y										
2H 2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
3H	非数字	非数字	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

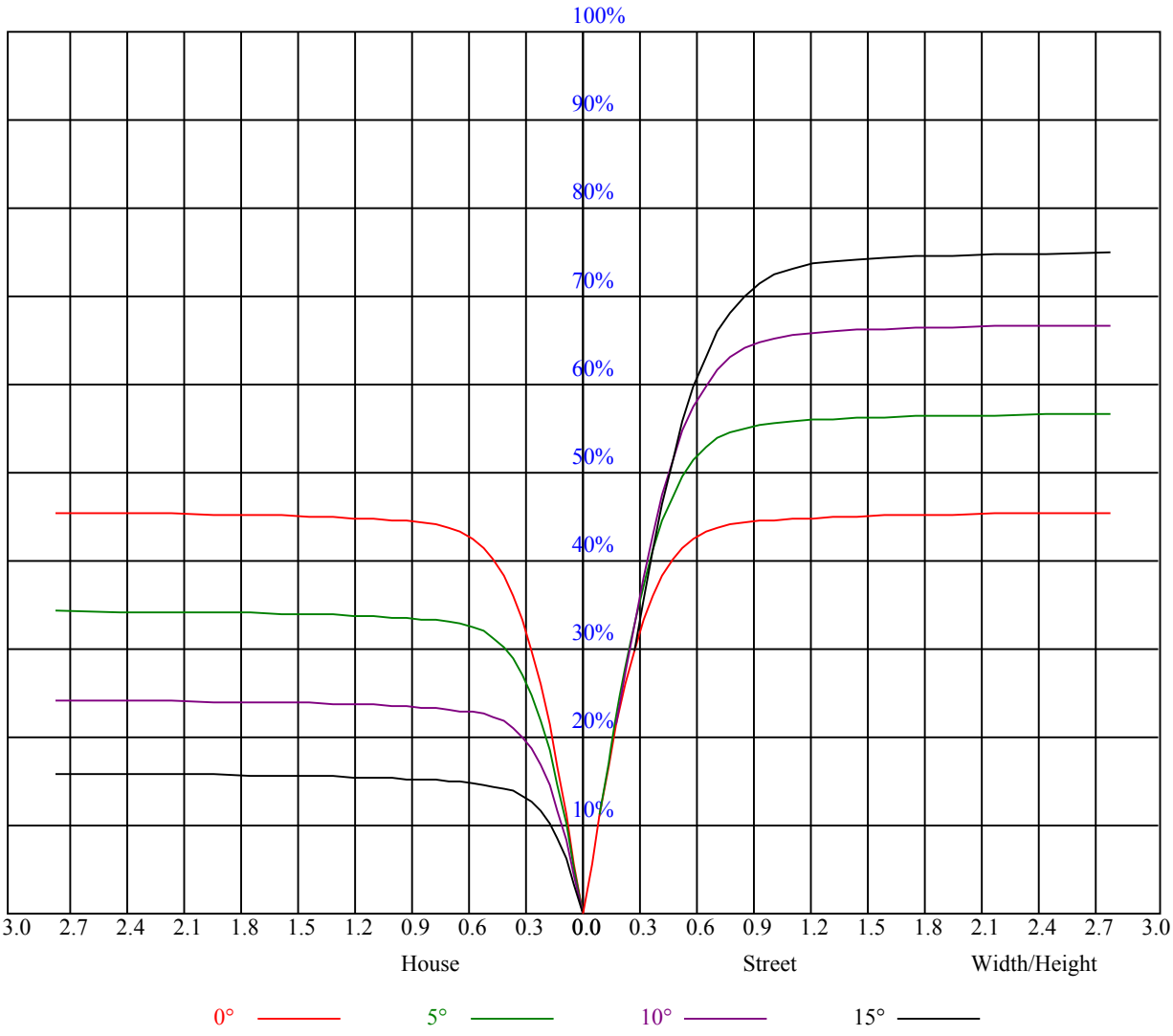


Equipment: GMS1980 Date: 2023/10/13 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.09	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	0.87	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	0.80	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	0.81	0.78	0.75	0.79	0.76	0.74	0.73
5	0.81	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.69
6	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.66
7	0.74	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	0.64	0.63
8	0.70	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.60
9	0.67	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.58
10	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.63	0.59	0.56	0.62	0.59	0.56	0.55

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	4673.50	4630.33	4582.17	4516.85	4422.20	4326.44	4224.59	4101.15	3937.86
45.0	4680.70	4674.06	4658.01	4605.42	4543.42	4464.82	4381.79	4254.48	4140.45
90.0	4673.50	4646.93	4605.97	4545.64	4472.57	4384.56	4264.44	4145.43	4019.78
135.0	4680.70	4675.17	4648.60	4599.33	4542.32	4443.79	4351.35	4222.37	4106.68
180.0	4673.50	4675.72	4664.09	4636.42	4591.03	4511.32	4436.04	4339.72	4235.10
225.0	4680.70	4660.22	4628.67	4563.35	4492.50	4415.00	4297.10	4180.30	4061.29
270.0	4673.50	4680.70	4666.86	4646.93	4581.62	4512.43	4438.81	4327.54	4210.19
315.0	4680.70	4668.52	4626.45	4578.85	4516.30	4436.04	4322.01	4212.41	4088.97
360.0	4673.50	4630.33	4582.17	4516.85	4422.20	4326.44	4224.59	4101.15	3937.86

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3793.38	3646.14	3495.58	3291.33	3138.55	2975.81	2764.36	2588.33	2412.86
45.0	4014.24	3874.75	3695.96	3544.29	3389.30	3191.14	3026.73	2852.37	2640.37
90.0	3843.20	3692.09	3500.01	3340.04	3177.85	2981.34	2807.53	2630.96	2460.47
135.0	3978.82	3841.54	3659.98	3501.67	3350.55	3188.92	3028.40	2819.71	2650.33
180.0	4088.97	3965.53	3825.49	3681.01	3488.94	3335.05	3177.85	2975.26	2815.84
225.0	3924.57	3744.67	3597.43	3444.10	3283.58	3089.84	2930.42	2767.68	2602.73
270.0	4097.27	3934.53	3790.06	3587.47	3431.37	3275.83	3107.00	2902.19	2743.32
315.0	3955.57	3773.45	3619.02	3463.47	3268.08	3105.89	2906.06	2740.56	2563.98
360.0	3793.38	3646.14	3495.58	3291.33	3138.55	2975.81	2764.36	2588.33	2412.86

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2194.22	2021.51	1853.24	1662.27	1529.42	1403.21	1083.82	1083.82	1026.03
45.0	2463.24	2285.00	2063.03	1896.97	1744.19	1600.83	1440.30	1321.84	1206.15
90.0	2241.27	2070.78	1906.38	1746.96	1574.81	1445.84	1249.88	1102.48	1072.31
135.0	2479.29	2262.86	2091.81	1885.34	1734.78	1598.06	1441.41	1323.50	1210.03
180.0	2656.42	2443.31	2263.41	2092.37	1888.11	1735.89	1598.06	1472.41	1334.02
225.0	2390.17	2177.06	2010.44	1855.45	1707.11	1542.15	1425.91	1237.15	1086.37
270.0	2565.09	2388.51	2181.49	2019.85	1856.01	1660.05	1533.85	1409.30	1273.69
315.0	2391.28	2166.54	2001.59	1837.74	1691.05	1522.78	1398.79	1092.40	1092.40
360.0	2194.22	2021.51	1853.24	1662.27	1529.42	1403.21	1083.82	1083.82	1026.03

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	913.17	805.06	682.84	597.04	514.62	421.85	354.32	277.71	221.75
45.0	1084.38	936.58	829.20	728.45	614.42	531.39	437.29	369.21	306.66
90.0	955.46	817.74	718.10	626.93	521.38	443.38	374.25	309.21	237.36
135.0	1090.47	942.12	830.86	729.56	635.46	530.84	452.24	381.94	302.23
180.0	1221.10	1104.86	988.62	844.14	741.74	622.17	536.93	459.43	370.32
225.0	1059.69	942.95	831.63	727.84	610.88	523.70	444.99	357.14	293.93
270.0	1165.19	1048.40	901.16	795.98	695.79	601.69	498.74	424.56	357.03
315.0	1034.67	921.58	812.65	687.38	598.26	495.47	420.30	354.82	280.20
360.0	913.17	805.06	682.84	597.04	514.62	421.85	354.32	277.71	221.75

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	172.48	132.63	100.13	88.62	80.37	73.23	65.87	61.00	56.74
45.0	292.27	219.86	136.50	105.95	91.11	80.54	73.40	67.64	62.49
90.0	186.98	144.20	113.25	94.77	86.07	76.83	70.80	65.37	59.51
135.0	286.73	286.73	136.39	109.38	94.99	84.47	77.16	71.02	65.65
180.0	307.21	291.71	291.71	138.72	108.60	93.55	85.08	75.56	69.47
225.0	235.03	175.08	136.50	106.56	87.40	79.49	72.35	66.48	60.39
270.0	294.48	279.54	213.11	134.73	102.85	90.61	80.21	73.34	67.48
315.0	224.46	173.92	134.62	102.51	89.84	81.59	74.23	66.81	61.77
360.0	172.48	132.63	100.13	88.62	80.37	73.23	65.87	61.00	56.74

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	52.92	48.49	45.28	41.74	39.08	36.75	34.15	32.27	30.61
45.0	57.01	53.31	48.82	45.61	42.62	39.25	36.87	34.82	32.44
90.0	55.35	51.53	47.22	44.12	41.29	38.69	35.92	33.88	31.94
135.0	59.73	55.63	51.87	48.16	44.23	41.24	38.14	35.87	33.93
180.0	63.93	58.23	54.30	50.65	46.39	43.51	40.74	37.64	35.43
225.0	56.18	52.42	49.04	45.06	42.29	39.69	36.81	34.65	32.27
270.0	62.49	57.07	53.36	49.76	46.55	43.01	40.35	37.97	35.70
315.0	57.46	52.75	49.32	46.05	42.51	39.97	37.59	34.87	32.88
360.0	52.92	48.49	45.28	41.74	39.08	36.75	34.15	32.27	30.61

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	28.73	27.34	26.13	25.02	23.75	22.81	21.98	21.20	20.26
45.0	30.72	29.23	27.84	26.35	25.19	24.13	23.19	22.09	21.26
90.0	30.33	28.40	27.07	25.91	24.52	23.53	22.36	21.53	20.81
135.0	31.61	30.00	28.56	26.96	25.79	24.69	23.69	22.75	21.70
180.0	33.49	31.16	29.56	28.12	26.85	25.35	24.30	23.36	22.47
225.0	30.61	29.01	27.29	26.07	24.96	23.97	22.86	21.98	21.20
270.0	33.27	31.44	29.50	28.06	26.85	25.41	24.36	23.41	22.31
315.0	31.11	29.56	27.73	26.57	25.41	24.36	23.14	22.25	21.26
360.0	28.73	27.34	26.13	25.02	23.75	22.81	21.98	21.20	20.26

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.54	18.93	18.16	17.55	16.83	16.33	15.78	15.28	14.67
45.0	20.31	19.65	18.99	18.21	17.60	17.05	16.50	15.78	15.28
90.0	20.09	19.26	18.60	17.99	17.38	16.66	16.11	15.61	15.11
135.0	20.87	20.20	19.60	18.71	18.10	17.44	16.83	16.27	15.61
180.0	21.42	20.65	19.93	19.15	18.54	17.77	17.21	16.66	16.22
225.0	20.43	19.60	18.99	18.38	17.66	17.10	16.44	15.94	15.50
270.0	21.53	20.76	20.09	19.21	18.60	18.05	17.44	16.77	16.27
315.0	20.54	19.87	18.99	18.43	17.82	17.27	16.61	16.11	15.61
360.0	19.54	18.93	18.16	17.55	16.83	16.33	15.78	15.28	14.67

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.23	13.78	13.40	12.84	12.45	12.07	11.68	11.24	10.85
45.0	14.83	14.39	13.95	13.40	13.01	12.57	12.12	11.73	11.29
90.0	14.50	14.06	13.56	13.12	12.68	12.18	11.79	11.46	11.07
135.0	15.17	14.67	14.12	13.67	13.23	12.84	12.45	11.96	11.62
180.0	15.55	15.06	14.67	14.17	13.62	13.17	12.79	12.23	11.90
225.0	15.00	14.45	14.00	13.51	13.12	12.57	12.18	11.79	11.46
270.0	15.72	15.17	14.67	14.06	13.62	13.12	12.73	12.23	11.85
315.0	15.11	14.50	14.06	13.62	13.06	12.62	12.23	11.73	11.35
360.0	14.23	13.78	13.40	12.84	12.45	12.07	11.68	11.24	10.85

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.46	10.19	9.91	9.63	9.41	9.19	8.97	8.75	8.69
45.0	10.96	10.52	10.19	9.91	9.63	9.41	9.19	8.97	8.75
90.0	10.68	10.30	10.02	9.74	9.52	9.30	9.02	8.80	8.75
135.0	11.24	10.74	10.30	10.02	9.74	9.52	9.30	9.08	8.86
180.0	11.51	11.07	10.63	10.30	9.96	9.69	9.47	9.30	9.02
225.0	11.02	10.63	10.24	9.96	9.74	9.47	9.30	9.08	8.86
270.0	11.46	11.02	10.57	10.19	9.96	9.69	9.47	9.19	8.97
315.0	10.90	10.57	10.24	9.96	9.69	9.47	9.30	9.02	8.80
360.0	10.46	10.19	9.91	9.63	9.41	9.19	8.97	8.75	8.69

Intensity data(cd)

C/γ(°)	90.0
0.0	8.69
45.0	8.75
90.0	8.75
135.0	8.75
180.0	8.80
225.0	8.69
270.0	8.75
315.0	8.80
360.0	8.69