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NATA

Client:
LumCAT: 1-1384-L
Luminaire: 92.70.427.00
Report No: 2023718-B016
Ballast type: AC
Test No: 2023718-C016
LampCAT: CITIZEN CLU028
Lamp flux(lm): 1223.2
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 35.540
Current(A): 0.282
Power (W): 10.022
PF: 0.000
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 1117.62, Efficiency(%): 91.37% , Luminous Efficacy(lm/W): 111.52
Central intensity(cd): 1748.288, Maximum intensity(cd): 1748.288
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=50.0
[C90/270]Total=50.0
Field angle(10%Imax): [C0/180]Total=69.0
[C90/270]Total=69.0
Maximum s/h(1/2): C0_180=0.80 C90_270=0.80
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(%): 91.37%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.044%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1748.288	0.000	0	0.00%	0.00%
1.0	1747.596	1.673	1.673	0.14%	0.15%
2.0	1746.143	5.015	6.687	0.41%	0.60%
3.0	1742.061	8.343	15.03	0.68%	1.34%
4.0	1736.456	11.644	26.674	0.95%	2.39%
5.0	1729.468	14.910	41.584	1.22%	3.72%
6.0	1718.536	18.120	59.704	1.48%	5.34%
7.0	1705.043	21.250	80.954	1.74%	7.24%
8.0	1689.682	24.295	105.25	1.99%	9.42%
9.0	1670.032	27.229	132.478	2.23%	11.85%
10.0	1646.853	30.017	162.495	2.45%	14.54%
11.0	1619.453	32.637	195.132	2.67%	17.46%
12.0	1590.669	35.091	230.223	2.87%	20.60%
13.0	1554.205	37.322	267.545	3.05%	23.94%
14.0	1516.080	39.299	306.844	3.21%	27.46%
15.0	1475.672	41.072	347.916	3.36%	31.13%
16.0	1428.967	42.561	390.477	3.48%	34.94%
17.0	1381.155	43.761	434.238	3.58%	38.85%
18.0	1325.871	44.633	478.871	3.65%	42.85%
19.0	1248.653	44.791	523.663	3.66%	46.86%
20.0	1198.696	44.793	568.456	3.66%	50.86%
21.0	1126.979	44.658	613.114	3.65%	54.86%
22.0	1079.741	44.345	657.459	3.63%	58.83%
23.0	1011.213	43.874	701.333	3.59%	62.75%
24.0	945.488	42.781	744.113	3.50%	66.58%
25.0	872.172	41.330	785.443	3.38%	70.28%
26.0	795.113	39.356	824.799	3.22%	73.80%
27.0	710.802	36.843	861.642	3.01%	77.10%
28.0	626.589	33.860	895.502	2.77%	80.13%
29.0	539.414	30.506	926.008	2.49%	82.86%
30.0	451.173	26.746	952.753	2.19%	85.25%
31.0	374.301	22.972	975.725	1.88%	87.30%
32.0	306.984	19.518	995.243	1.60%	89.05%
33.0	257.083	16.618	1011.861	1.36%	90.54%
34.0	191.925	13.588	1025.449	1.11%	91.75%
35.0	157.218	10.843	1036.292	0.89%	92.72%
36.0	101.913	8.251	1044.543	0.67%	93.46%
37.0	79.280	5.910	1050.452	0.48%	93.99%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	64.003	4.783	1055.235	0.39%	94.42%
39.0	54.516	4.045	1059.28	0.33%	94.78%
40.0	46.663	3.529	1062.809	0.29%	95.10%
41.0	40.996	3.122	1065.931	0.26%	95.38%
42.0	35.924	2.795	1068.725	0.23%	95.63%
43.0	32.043	2.518	1071.243	0.21%	95.85%
44.0	28.597	2.289	1073.532	0.19%	96.06%
45.0	25.705	2.087	1075.619	0.17%	96.24%
46.0	23.290	1.916	1077.535	0.16%	96.41%
47.0	21.104	1.766	1079.3	0.14%	96.57%
48.0	19.554	1.644	1080.944	0.13%	96.72%
49.0	18.135	1.548	1082.492	0.13%	96.86%
50.0	16.980	1.464	1083.956	0.12%	96.99%
51.0	15.921	1.392	1085.348	0.11%	97.11%
52.0	15.056	1.329	1086.677	0.11%	97.23%
53.0	14.281	1.276	1087.953	0.10%	97.35%
54.0	13.548	1.227	1089.18	0.10%	97.46%
55.0	12.911	1.181	1090.361	0.10%	97.56%
56.0	12.358	1.142	1091.503	0.09%	97.66%
57.0	11.860	1.107	1092.61	0.09%	97.76%
58.0	11.424	1.077	1093.687	0.09%	97.86%
59.0	10.988	1.048	1094.734	0.09%	97.95%
60.0	10.593	1.020	1095.754	0.08%	98.04%
61.0	10.247	0.995	1096.748	0.08%	98.13%
62.0	9.929	0.972	1097.721	0.08%	98.22%
63.0	9.590	0.949	1098.67	0.08%	98.30%
64.0	9.313	0.928	1099.598	0.08%	98.39%
65.0	9.030	0.908	1100.505	0.07%	98.47%
66.0	8.774	0.888	1101.394	0.07%	98.55%
67.0	8.524	0.870	1102.263	0.07%	98.63%
68.0	8.296	0.852	1103.115	0.07%	98.70%
69.0	8.040	0.833	1103.949	0.07%	98.78%
70.0	7.819	0.814	1104.763	0.07%	98.85%
71.0	7.597	0.797	1105.56	0.07%	98.92%
72.0	7.397	0.780	1106.34	0.06%	98.99%
73.0	7.189	0.763	1107.102	0.06%	99.06%
74.0	7.009	0.746	1107.849	0.06%	99.13%
75.0	6.802	0.730	1108.579	0.06%	99.19%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.615	0.712	1109.291	0.06%	99.26%
77.0	6.421	0.695	1109.986	0.06%	99.32%
78.0	6.234	0.677	1110.663	0.06%	99.38%
79.0	6.061	0.661	1111.324	0.05%	99.44%
80.0	5.888	0.644	1111.968	0.05%	99.49%
81.0	5.715	0.627	1112.596	0.05%	99.55%
82.0	5.556	0.611	1113.207	0.05%	99.61%
83.0	5.397	0.595	1113.802	0.05%	99.66%
84.0	5.279	0.582	1114.384	0.05%	99.71%
85.0	5.127	0.568	1114.952	0.05%	99.76%
86.0	5.023	0.555	1115.507	0.05%	99.81%
87.0	4.920	0.544	1116.051	0.04%	99.86%
88.0	4.802	0.533	1116.583	0.04%	99.91%
89.0	4.691	0.520	1117.104	0.04%	99.95%
90.0	4.650	0.512	1117.616	0.04%	100.00%

Zonal flux distribution table

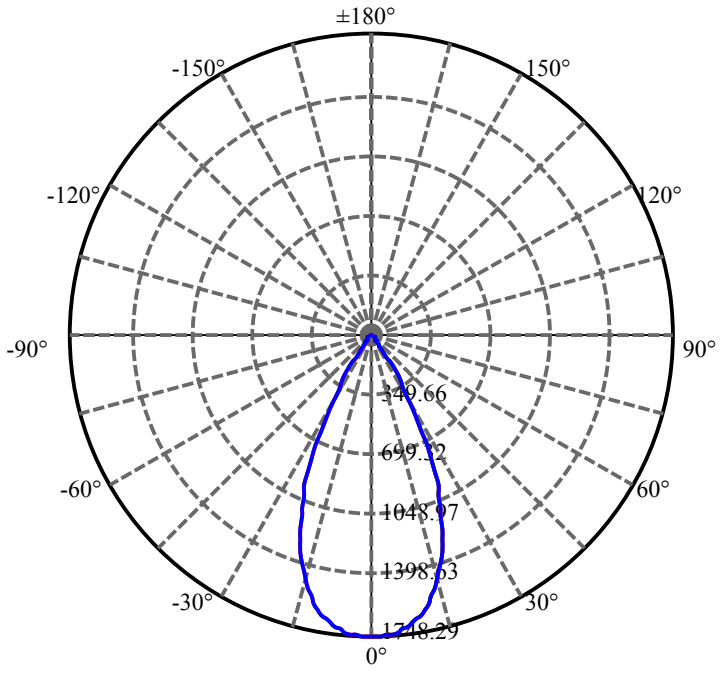
ZONAL LUMEN SUMMARY

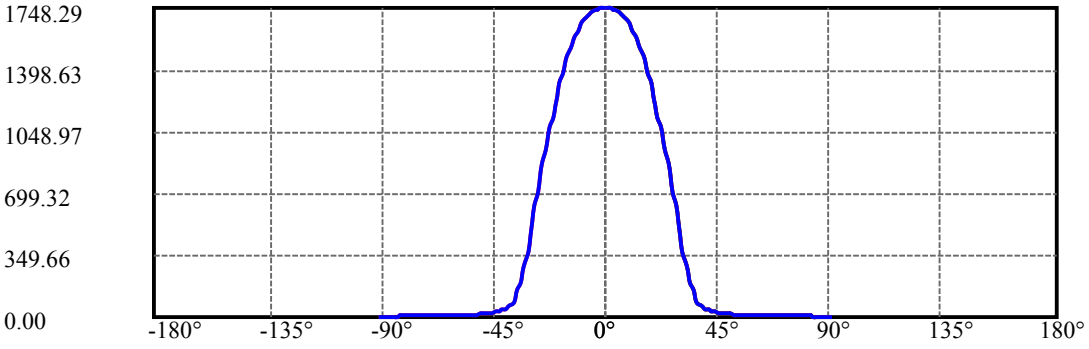
Zone	Lumens	%Lamp	%Fixt
0-30	952.75	77.89%	85.25%
0-40	1062.81	86.89%	95.10%
0-60	1095.75	89.58%	98.04%
0-90	1117.10	91.33%	99.95%
0-120	1117.10	91.33%	99.95%
0-180	1117.62	91.37%	100.00%
60-90	21.35	1.75%	1.91%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.96	894.09	73.09%	80.00%

ZONAL LUMEN SUMMARY

0-10	162.49
10-20	405.96
20-30	384.30
30-40	110.06
40-50	21.15
50-60	11.80
60-70	9.01
70-80	7.20
80-90	5.14
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):

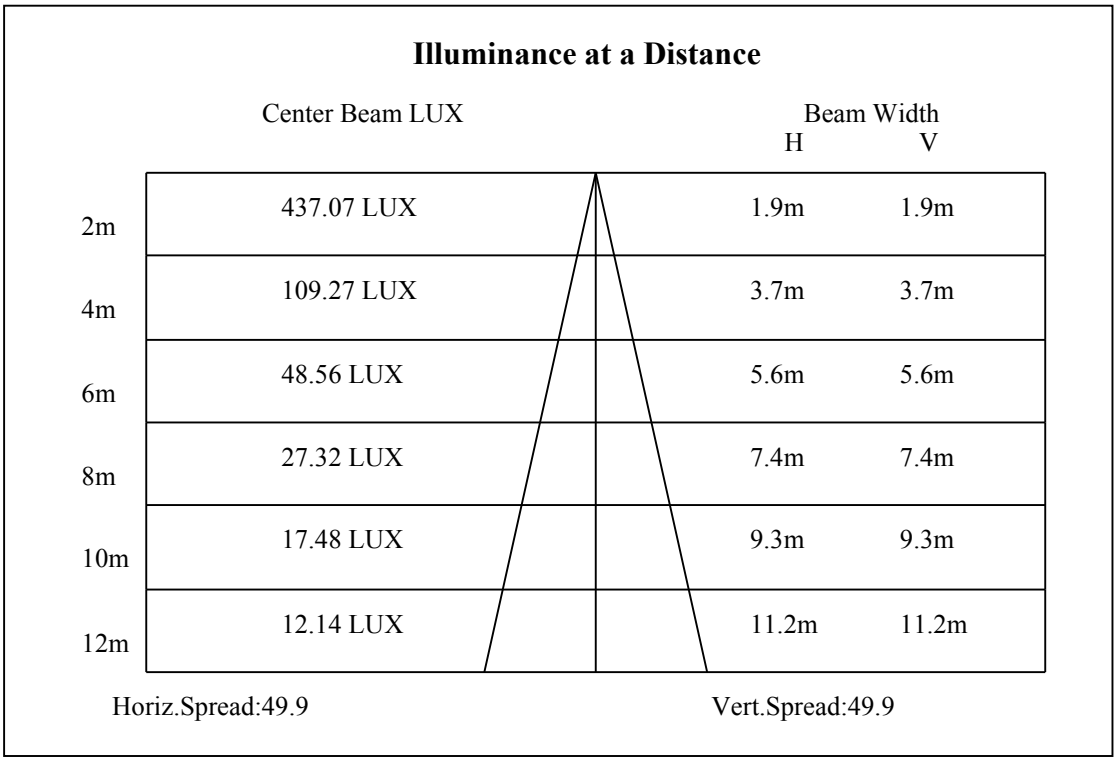
C0/C180:

C90/C270:

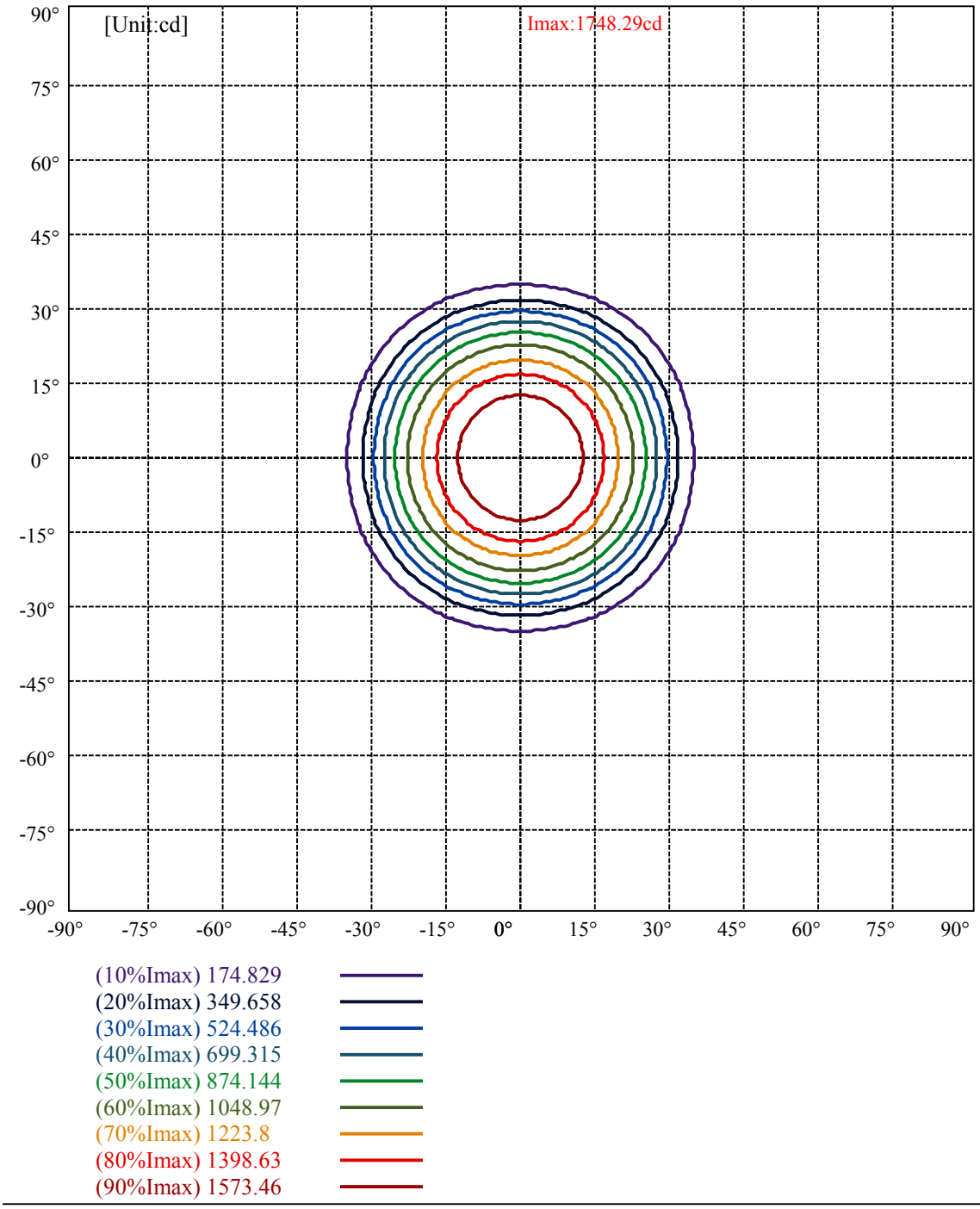
Field angle(10%Imax):C0/180Left:34.5 Right:34.5
:C90/270Left:34.5 Right:34.5

Beam Angle(50%Imax):C0/180Left:25.0 Right:25.0
:C90/270Left:25.0 Right:25.0

Lux distance Curve



ISO-Intensity(V-H)

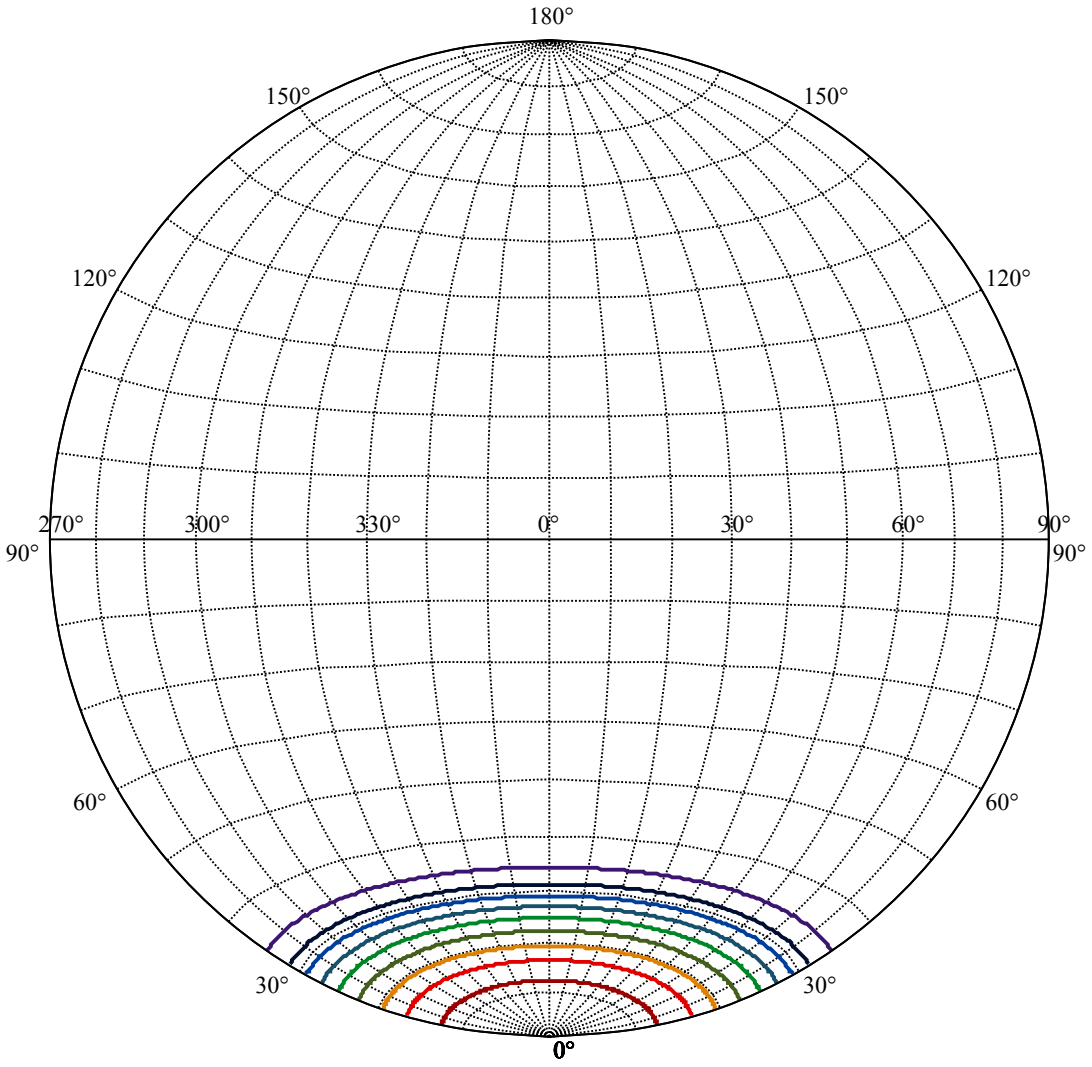


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/7/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



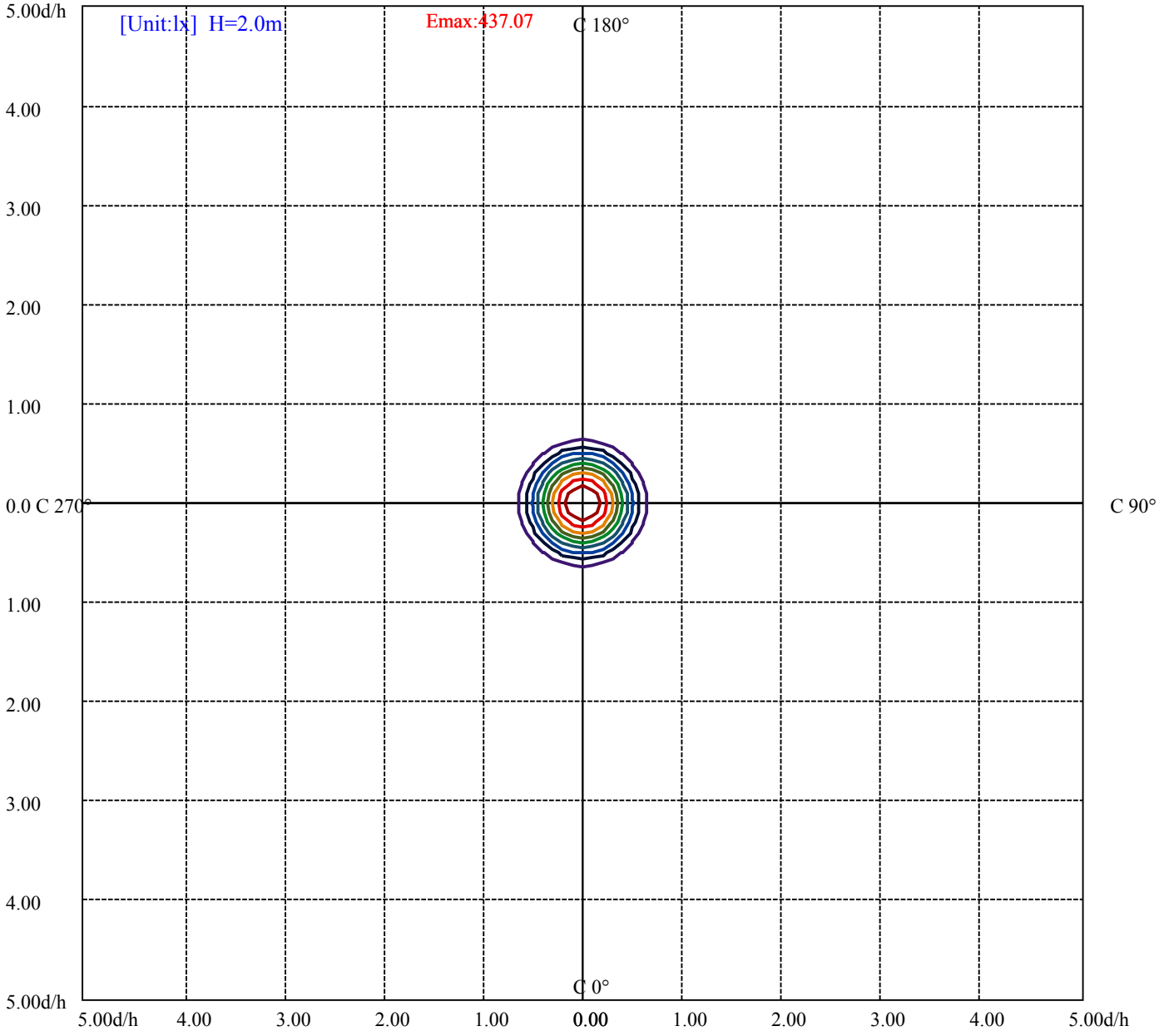
House [Unit:cd] Road

Imax:1748.29

(10%Imax) 174.829
(20%Imax) 349.658
(30%Imax) 524.486
(40%Imax) 699.315
(50%Imax) 874.144
(60%Imax) 1048.97
(70%Imax) 1223.8
(80%Imax) 1398.63
(90%Imax) 1573.46

Equipment: GMS1980 Date: 2023/7/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

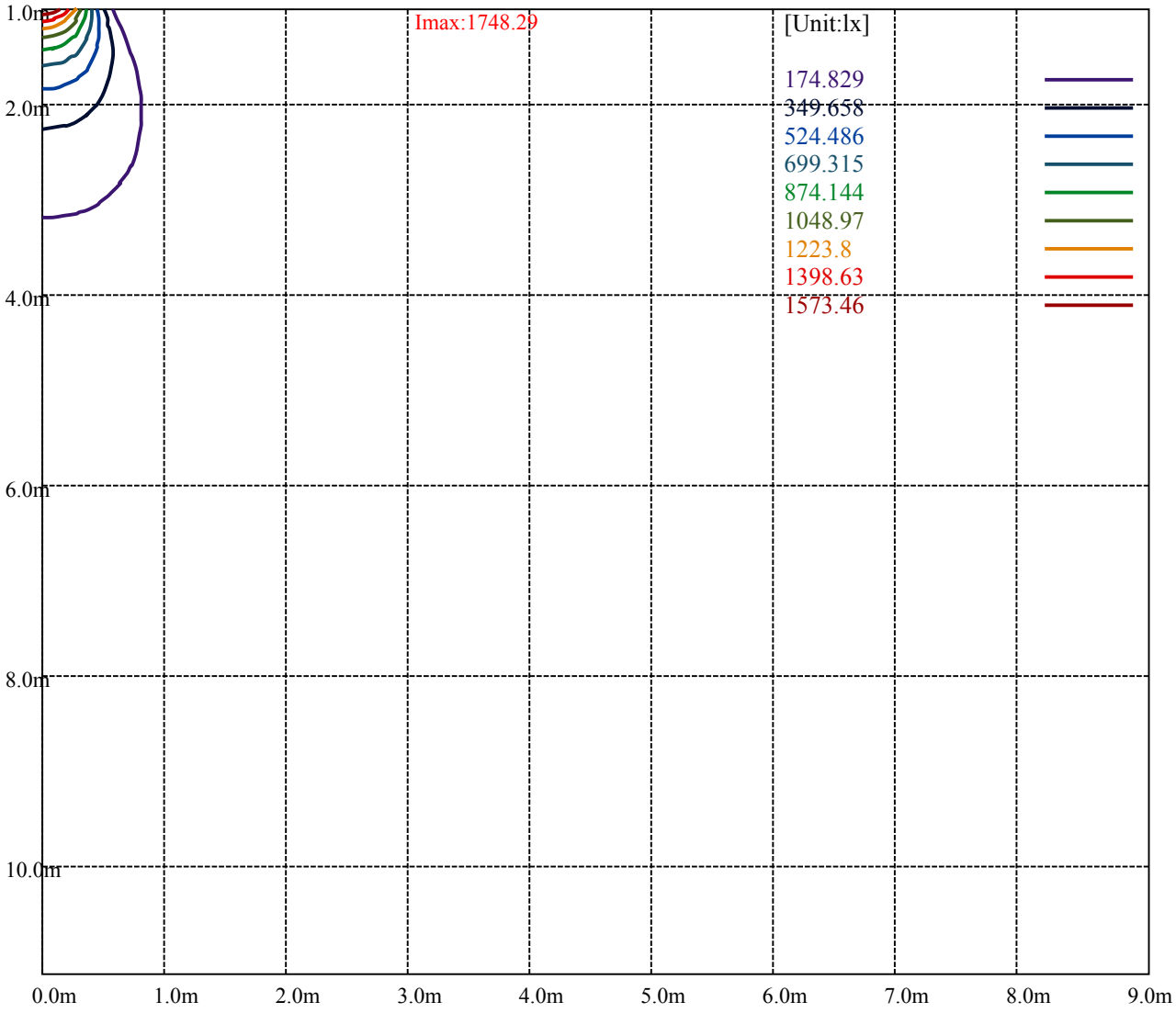
ISO illuminance diagram



(10%Emax) 43.70725
(20%Emax) 87.4145
(30%Emax) 131.1215
(40%Emax) 174.8288
(50%Emax) 218.536
(60%Emax) 262.2425
(70%Emax) 305.95
(80%Emax) 349.6575
(90%Emax) 393.365

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2023/7/18
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/7/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

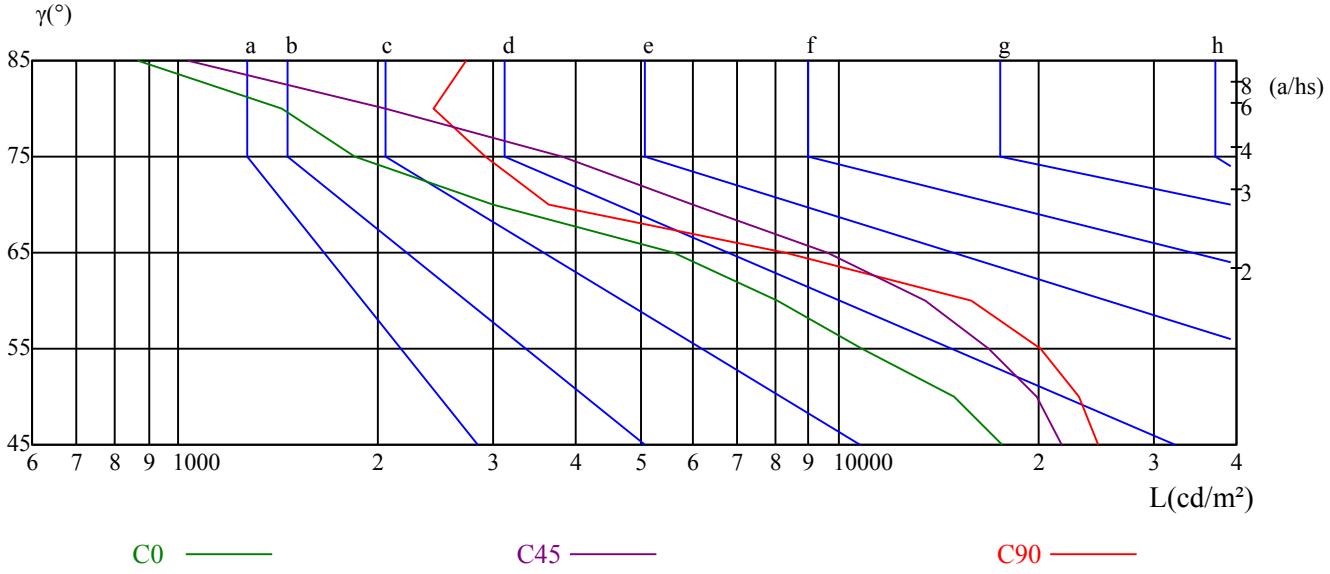
γ	45	50	55	60	65	70	75	80	85
C0	17707	14902	10843	8081	5637	2993	1851	1437	868
C45	21736	19918	16903	13532	9602	6004	3809	2064	1031
C90	24698	23118	20255	15854	8293	3645	2908	2436	2724

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10642	10437	15758	4678	3676	7686	4962	3969	5458

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

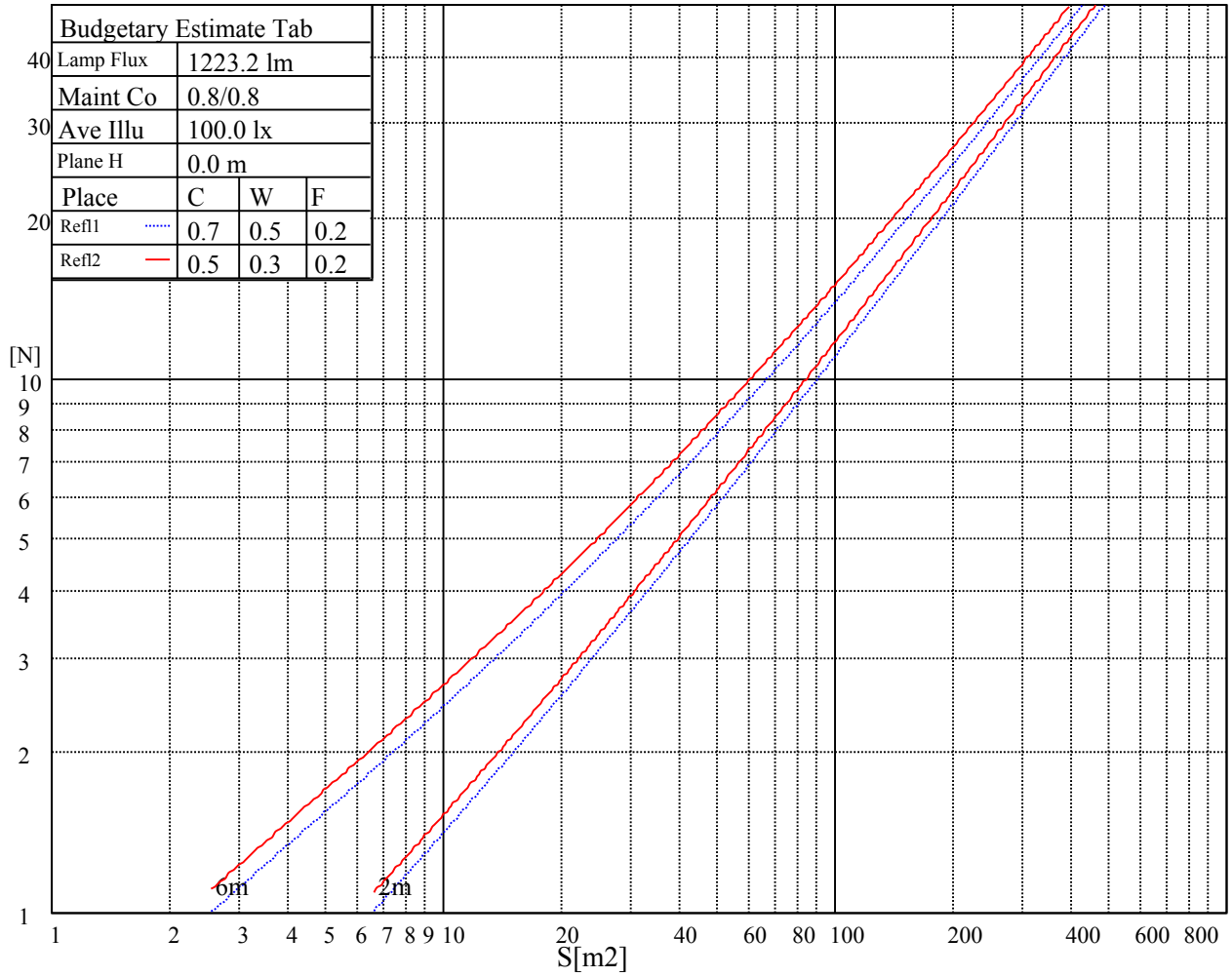
Luminance Limitting Curve



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

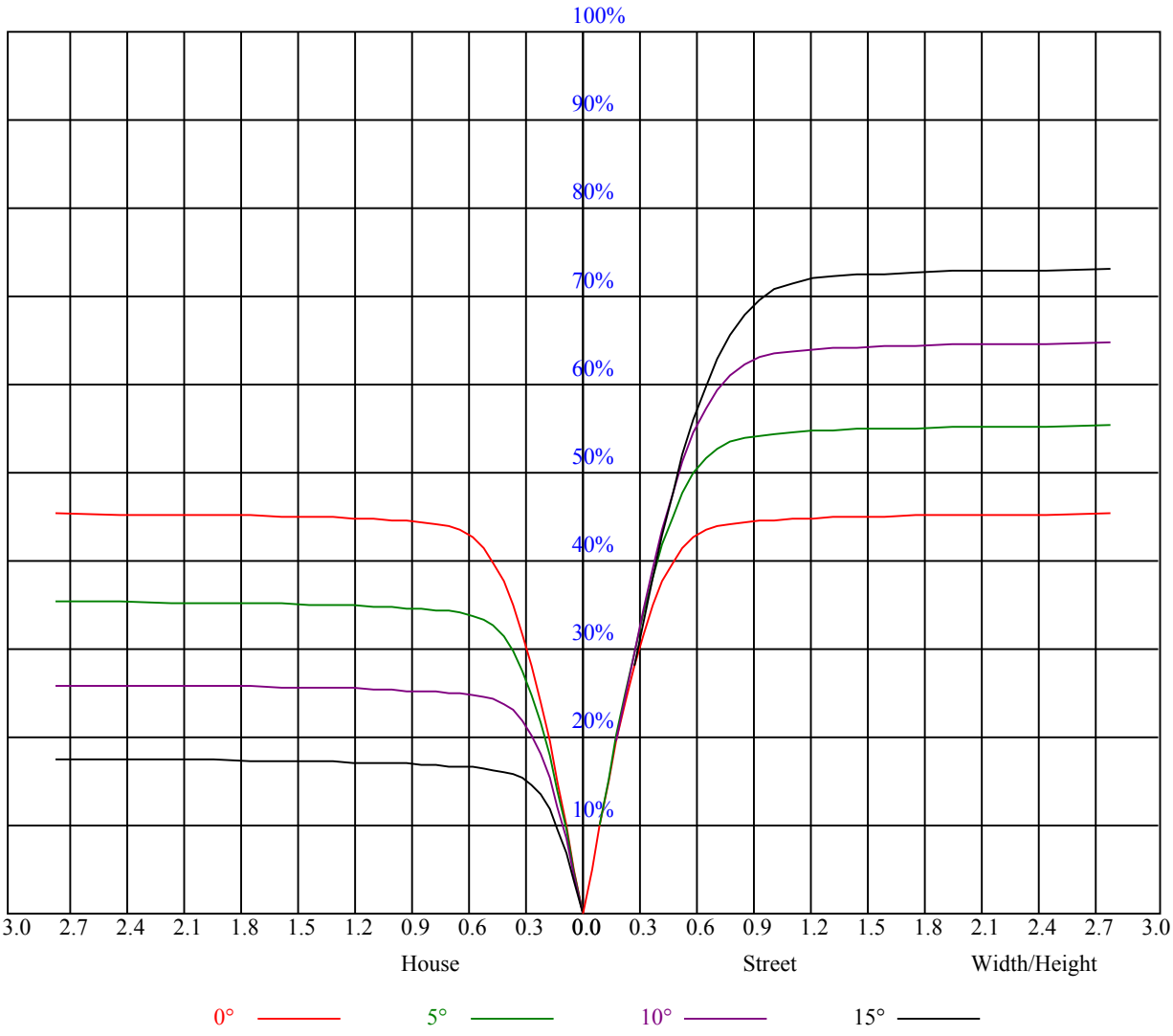


Equipment: GMS1980 Date: 2023/7/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.01	0.99	0.97	0.99	0.97	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
2	0.95	0.92	0.89	0.93	0.90	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.85	0.84	0.82	0.81
3	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.79	0.77	0.76
4	0.84	0.80	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.76	0.74	0.78	0.75	0.73	0.72
5	0.80	0.75	0.71	0.79	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.74	0.72	0.69	0.68
6	0.76	0.71	0.67	0.75	0.70	0.67	0.74	0.70	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.64
7	0.72	0.67	0.63	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61
8	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.58
9	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.55
10	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.53

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/7/18	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	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	1749.67	1747.46	1744.14	1737.49	1731.41	1724.21	1711.48	1691.55	1674.39
45.0	1745.80	1741.92	1739.15	1733.62	1727.53	1718.67	1704.28	1691.00	1676.61
90.0	1743.03	1739.71	1731.41	1723.10	1712.59	1699.85	1686.57	1664.43	1646.16
135.0	1754.65	1754.10	1751.89	1742.48	1733.07	1723.10	1712.03	1695.98	1675.50
180.0	1749.67	1749.12	1746.35	1744.69	1738.05	1736.94	1728.08	1722.55	1709.82
225.0	1745.80	1744.69	1751.89	1751.33	1750.23	1747.46	1736.39	1728.64	1714.25
270.0	1743.03	1748.01	1746.90	1749.67	1752.44	1748.01	1744.69	1733.07	1722.55
315.0	1754.65	1755.76	1757.42	1754.10	1746.35	1737.49	1724.76	1713.14	1698.19
360.0	1749.67	1747.46	1744.14	1737.49	1731.41	1724.21	1711.48	1691.55	1674.39

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1647.27	1620.70	1594.13	1565.34	1517.19	1478.44	1438.03	1392.09	1328.98
45.0	1657.78	1636.20	1610.18	1579.74	1541.54	1502.24	1464.05	1409.25	1361.64
90.0	1620.70	1595.24	1556.49	1518.85	1470.69	1434.71	1390.98	1335.07	1281.93
135.0	1655.57	1627.89	1600.77	1570.33	1524.38	1488.40	1446.89	1394.30	1350.02
180.0	1696.53	1676.05	1648.93	1623.47	1596.34	1557.04	1521.06	1481.21	1434.16
225.0	1691.55	1672.18	1645.61	1616.82	1589.15	1546.52	1507.78	1466.82	1423.64
270.0	1710.92	1694.87	1670.52	1651.70	1625.13	1595.24	1551.51	1509.44	1470.69
315.0	1679.93	1651.70	1629.00	1599.11	1569.22	1526.04	1485.08	1443.57	1398.18
360.0	1647.27	1620.70	1594.13	1565.34	1517.19	1478.44	1438.03	1392.09	1328.98

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1271.42	1101.81	1101.81	1070.48	1006.83	925.51	855.43	780.43	678.08
45.0	1309.06	1250.94	1179.53	1120.30	1059.97	980.26	913.83	825.82	747.22
90.0	1228.24	1098.38	1098.38	1038.77	978.93	900.44	834.29	763.44	681.90
135.0	1301.86	1252.60	1182.85	1130.27	1073.80	1012.36	936.53	872.87	783.20
180.0	1387.11	1334.52	1283.04	1213.85	1152.96	1091.52	1035.06	950.92	886.16
225.0	1361.64	1310.16	1255.92	1101.32	1101.32	1055.65	996.03	919.09	854.11
270.0	1412.01	1359.98	1299.09	1239.87	1178.98	1113.11	1042.81	979.15	912.17
315.0	1335.63	1280.83	1188.94	1100.98	1085.15	1010.87	949.92	885.66	818.07
360.0	1271.42	1101.81	1101.81	1070.48	1006.83	925.51	855.43	780.43	678.08

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	593.83	511.30	430.54	336.38	269.74	210.45	160.19	111.48	85.91
45.0	662.53	578.39	477.65	401.26	326.53	291.66	291.66	139.16	104.06
90.0	577.12	494.97	416.59	327.86	262.54	204.86	144.58	108.11	79.16
135.0	700.17	617.69	516.95	440.01	364.17	296.64	281.14	209.68	126.59
180.0	799.80	725.08	641.49	540.75	463.81	386.87	317.12	285.02	285.02
225.0	782.70	684.00	600.59	494.92	415.87	340.26	272.12	197.89	148.90
270.0	847.41	759.95	675.26	592.23	510.86	413.44	340.92	290.55	290.55
315.0	722.86	641.33	556.25	475.99	380.89	311.70	248.93	193.52	137.55
360.0	593.83	511.30	430.54	336.38	269.74	210.45	160.19	111.48	85.91

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	70.63	60.56	50.87	45.17	39.36	35.26	30.89	27.84	25.24
45.0	80.54	63.32	54.25	47.22	40.74	36.37	31.72	28.51	25.79
90.0	65.70	55.96	48.60	42.95	36.98	32.99	29.56	26.68	23.64
135.0	96.65	74.06	62.66	53.42	46.61	39.97	35.59	31.88	28.06
180.0	137.50	103.95	77.33	64.60	55.02	47.38	40.13	35.43	31.55
225.0	111.04	86.02	70.30	57.62	49.60	43.45	37.25	33.32	29.23
270.0	148.90	111.81	81.48	67.86	56.13	49.04	43.34	38.53	34.43
315.0	104.34	78.55	66.54	57.29	48.88	43.51	38.91	34.15	30.83
360.0	70.63	60.56	50.87	45.17	39.36	35.26	30.89	27.84	25.24

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	23.03	20.70	19.26	18.10	16.99	15.83	15.06	14.28	13.67
45.0	23.41	20.92	19.26	17.93	16.88	15.67	14.83	14.12	13.45
90.0	21.53	19.76	18.10	17.05	15.83	15.00	14.28	13.45	12.84
135.0	25.57	23.36	21.09	19.60	18.05	16.99	16.16	15.33	14.39
180.0	27.51	24.85	22.09	20.20	18.65	17.44	16.16	15.22	14.45
225.0	26.40	23.97	21.31	19.65	18.32	17.21	15.94	15.06	14.28
270.0	30.17	27.23	24.74	22.58	20.37	18.93	17.49	16.50	15.50
315.0	28.01	25.52	22.97	21.31	19.98	18.76	17.44	16.50	15.67
360.0	23.03	20.70	19.26	18.10	16.99	15.83	15.06	14.28	13.67

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.95	12.40	11.85	11.40	11.02	10.57	10.24	9.96	9.69
45.0	12.73	12.23	11.73	11.29	10.90	10.46	10.19	9.91	9.58
90.0	12.34	11.85	11.35	10.96	10.63	10.30	9.91	9.63	9.35
135.0	13.78	13.17	12.68	12.07	11.68	11.24	10.79	10.41	10.07
180.0	13.73	12.95	12.45	11.96	11.40	11.02	10.68	10.30	9.96
225.0	13.62	12.90	12.34	11.90	11.46	10.96	10.57	10.19	9.91
270.0	14.50	13.78	13.17	12.51	12.01	11.57	11.13	10.74	10.35
315.0	14.72	14.00	13.28	12.79	12.29	11.79	11.24	10.85	10.52
360.0	12.95	12.40	11.85	11.40	11.02	10.57	10.24	9.96	9.69

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.35	9.13	8.86	8.64	8.36	8.14	7.92	7.64	7.47
45.0	9.24	9.02	8.80	8.58	8.30	8.14	7.86	7.64	7.47
90.0	9.08	8.80	8.58	8.30	8.14	7.92	7.64	7.47	7.25
135.0	9.74	9.47	9.19	8.86	8.64	8.41	8.14	7.86	7.64
180.0	9.63	9.35	9.08	8.86	8.58	8.36	8.14	7.97	7.69
225.0	9.52	9.30	8.97	8.75	8.52	8.30	8.03	7.86	7.64
270.0	10.02	9.69	9.35	9.08	8.80	8.52	8.30	8.03	7.80
315.0	10.13	9.74	9.41	9.13	8.86	8.58	8.30	8.08	7.80
360.0	9.35	9.13	8.86	8.64	8.36	8.14	7.92	7.64	7.47

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.25	7.03	6.86	6.70	6.48	6.31	6.14	5.92	5.76
45.0	7.25	7.03	6.86	6.64	6.48	6.31	6.14	5.98	5.81
90.0	7.09	6.86	6.70	6.53	6.37	6.14	5.98	5.81	5.65
135.0	7.47	7.25	7.03	6.81	6.59	6.42	6.20	6.03	5.81
180.0	7.53	7.36	7.20	6.97	6.81	6.59	6.37	6.25	6.03
225.0	7.42	7.25	7.09	6.81	6.64	6.42	6.31	6.09	5.92
270.0	7.58	7.42	7.20	7.03	6.86	6.70	6.42	6.25	6.14
315.0	7.58	7.31	7.14	6.92	6.70	6.48	6.31	6.14	5.98
360.0	7.25	7.03	6.86	6.70	6.48	6.31	6.14	5.92	5.76

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.59	5.48	5.31	5.20	5.04	4.98	4.87	4.71	4.65
45.0	5.65	5.48	5.31	5.20	5.04	4.98	4.87	4.71	4.59
90.0	5.48	5.37	5.20	5.09	4.93	4.87	4.82	4.59	4.59
135.0	5.70	5.54	5.37	5.26	5.15	4.98	4.87	4.87	4.59
180.0	5.87	5.65	5.54	5.42	5.26	5.15	5.04	4.93	4.82
225.0	5.76	5.59	5.48	5.31	5.20	5.04	4.98	4.87	4.82
270.0	5.92	5.76	5.54	5.42	5.26	5.15	4.98	4.93	4.76
315.0	5.76	5.59	5.42	5.31	5.15	5.04	4.93	4.82	4.71
360.0	5.59	5.48	5.31	5.20	5.04	4.98	4.87	4.71	4.65

Intensity data(cd)

C/γ(°)	90.0
0.0	4.71
45.0	4.65
90.0	4.71
135.0	4.65
180.0	4.65
225.0	4.59
270.0	4.71
315.0	4.54
360.0	4.71