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NT

Client:
LumCAT: 1-1377-L
Luminaire: 92.70.428.00
Report No: 20231205-B008
Ballast type: AC

Test No: 20231205-C008	Voltage(V): 34.930
LampCAT: CREE CXA1516 LES8.9	Current(A): 0.330
Lamp flux(lm): 1642.4	Power (W): 11.526
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1518.60, Efficiency(%): 92.46% , Luminous Efficacy(lm/W): 131.75
Central intensity(cd): 6766.701, Maximum intensity(cd): 6766.701
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=20.8
[C90/270]Total=20.8
Field angle(10%Imax): [C0/180]Total=50.8
[C90/270]Total=50.8
Maximum s/h(1/2): C0_180=0.35 C90_270=0.35
Maximum s/h(1/4): C0_180=0.38 C90_270=0.38
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.46%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.009%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6766.701	0.000	0	0.00%	0.00%
1.0	6731.897	6.459	6.459	0.39%	0.43%
2.0	6618.215	19.161	25.62	1.17%	1.69%
3.0	6438.800	31.228	56.848	1.90%	3.74%
4.0	6158.019	42.166	99.014	2.57%	6.52%
5.0	5831.502	51.578	150.592	3.14%	9.92%
6.0	5419.463	59.127	209.719	3.60%	13.81%
7.0	4959.337	64.421	274.14	3.92%	18.05%
8.0	4486.271	67.600	341.74	4.12%	22.50%
9.0	4011.891	68.873	410.613	4.19%	27.04%
10.0	3539.655	68.339	478.952	4.16%	31.54%
11.0	3136.612	66.710	545.662	4.06%	35.93%
12.0	2748.652	64.334	609.996	3.92%	40.17%
13.0	2414.732	61.276	671.272	3.73%	44.20%
14.0	2134.850	58.234	729.507	3.55%	48.04%
15.0	1909.630	55.524	785.031	3.38%	51.69%
16.0	1710.841	53.050	838.081	3.23%	55.19%
17.0	1538.277	50.597	888.679	3.08%	58.52%
18.0	1359.360	47.776	936.454	2.91%	61.67%
19.0	1218.949	44.857	981.312	2.73%	64.62%
20.0	1149.245	43.345	1024.656	2.64%	67.47%
21.0	1052.168	42.272	1066.928	2.57%	70.26%
22.0	956.268	40.360	1107.288	2.46%	72.92%
23.0	869.737	38.315	1145.603	2.33%	75.44%
24.0	779.953	36.068	1181.671	2.20%	77.81%
25.0	704.437	33.752	1215.423	2.06%	80.04%
26.0	629.260	31.482	1246.905	1.92%	82.11%
27.0	550.851	28.872	1275.776	1.76%	84.01%
28.0	482.164	26.154	1301.93	1.59%	85.73%
29.0	412.682	23.412	1325.342	1.43%	87.27%
30.0	350.741	20.612	1345.954	1.26%	88.63%
31.0	297.311	18.034	1363.988	1.10%	89.82%
32.0	257.055	15.882	1379.87	0.97%	90.86%
33.0	235.779	14.519	1394.389	0.88%	91.82%
34.0	180.792	12.607	1406.996	0.77%	92.65%
35.0	143.428	10.069	1417.065	0.61%	93.31%
36.0	119.737	8.379	1425.444	0.51%	93.87%
37.0	98.972	7.133	1432.577	0.43%	94.34%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	82.283	6.050	1438.627	0.37%	94.73%
39.0	69.227	5.171	1443.799	0.31%	95.07%
40.0	58.806	4.465	1448.264	0.27%	95.37%
41.0	49.763	3.866	1452.13	0.24%	95.62%
42.0	43.501	3.388	1455.519	0.21%	95.85%
43.0	38.222	3.027	1458.546	0.18%	96.05%
44.0	33.959	2.724	1461.27	0.17%	96.22%
45.0	30.424	2.474	1463.745	0.15%	96.39%
46.0	27.538	2.267	1466.011	0.14%	96.54%
47.0	25.255	2.100	1468.111	0.13%	96.68%
48.0	23.338	1.964	1470.076	0.12%	96.80%
49.0	21.747	1.851	1471.927	0.11%	96.93%
50.0	20.398	1.757	1473.684	0.11%	97.04%
51.0	19.228	1.677	1475.361	0.10%	97.15%
52.0	18.239	1.608	1476.968	0.10%	97.26%
53.0	17.443	1.552	1478.521	0.09%	97.36%
54.0	16.682	1.504	1480.025	0.09%	97.46%
55.0	16.073	1.462	1481.487	0.09%	97.56%
56.0	15.527	1.428	1482.915	0.09%	97.65%
57.0	15.049	1.398	1484.313	0.09%	97.74%
58.0	14.620	1.372	1485.685	0.08%	97.83%
59.0	14.254	1.350	1487.035	0.08%	97.92%
60.0	13.915	1.331	1488.365	0.08%	98.01%
61.0	13.638	1.315	1489.68	0.08%	98.10%
62.0	13.368	1.301	1490.982	0.08%	98.18%
63.0	13.105	1.288	1492.269	0.08%	98.27%
64.0	12.814	1.272	1493.541	0.08%	98.35%
65.0	12.538	1.255	1494.796	0.08%	98.43%
66.0	12.247	1.237	1496.032	0.08%	98.51%
67.0	11.880	1.213	1497.245	0.07%	98.59%
68.0	11.479	1.183	1498.429	0.07%	98.67%
69.0	11.133	1.154	1499.582	0.07%	98.75%
70.0	10.780	1.125	1500.708	0.07%	98.82%
71.0	10.448	1.097	1501.805	0.07%	98.89%
72.0	10.164	1.072	1502.877	0.07%	98.96%
73.0	9.853	1.047	1503.923	0.06%	99.03%
74.0	9.590	1.022	1504.946	0.06%	99.10%
75.0	9.355	1.001	1505.946	0.06%	99.17%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.092	0.979	1506.926	0.06%	99.23%
77.0	8.857	0.957	1507.883	0.06%	99.29%
78.0	8.635	0.936	1508.819	0.06%	99.36%
79.0	8.407	0.916	1509.735	0.06%	99.42%
80.0	8.178	0.894	1510.629	0.05%	99.48%
81.0	7.999	0.875	1511.504	0.05%	99.53%
82.0	7.819	0.858	1512.361	0.05%	99.59%
83.0	7.639	0.840	1513.202	0.05%	99.64%
84.0	7.445	0.822	1514.023	0.05%	99.70%
85.0	7.258	0.802	1514.826	0.05%	99.75%
86.0	7.106	0.785	1515.611	0.05%	99.80%
87.0	6.975	0.771	1516.382	0.05%	99.85%
88.0	6.829	0.756	1517.138	0.05%	99.90%
89.0	6.615	0.737	1517.875	0.04%	99.95%
90.0	6.566	0.723	1518.597	0.04%	100.00%

Zonal flux distribution table

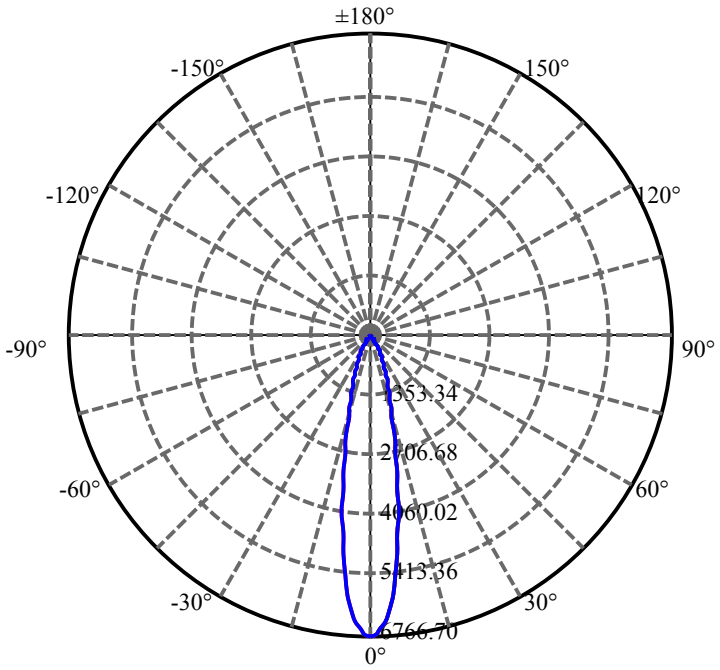
ZONAL LUMEN SUMMARY

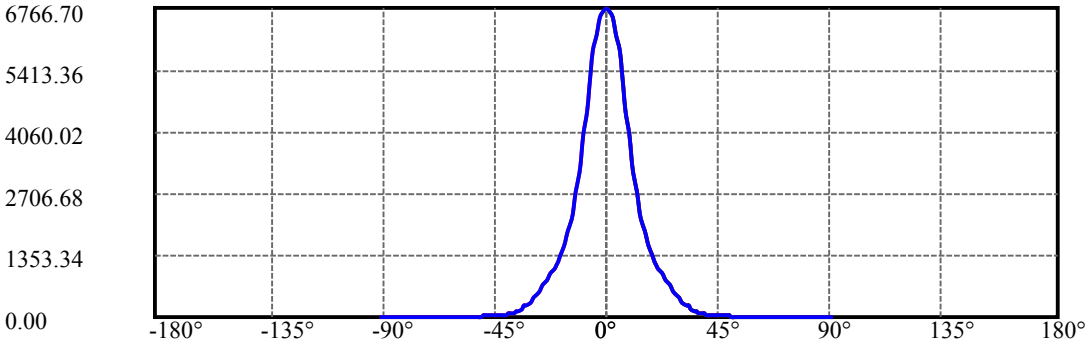
Zone	Lumens	%Lamp	%Fixt
0-30	1345.95	81.95%	88.63%
0-40	1448.26	88.18%	95.37%
0-60	1488.37	90.62%	98.01%
0-90	1517.87	92.42%	99.95%
0-120	1517.87	92.42%	99.95%
0-180	1518.60	92.46%	100.00%
60-90	29.51	1.80%	1.94%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.98	1214.88	73.97%	80.00%

ZONAL LUMEN SUMMARY

0-10	478.95
10-20	545.70
20-30	321.30
30-40	102.31
40-50	25.42
50-60	14.68
60-70	12.34
70-80	9.92
80-90	7.25
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):

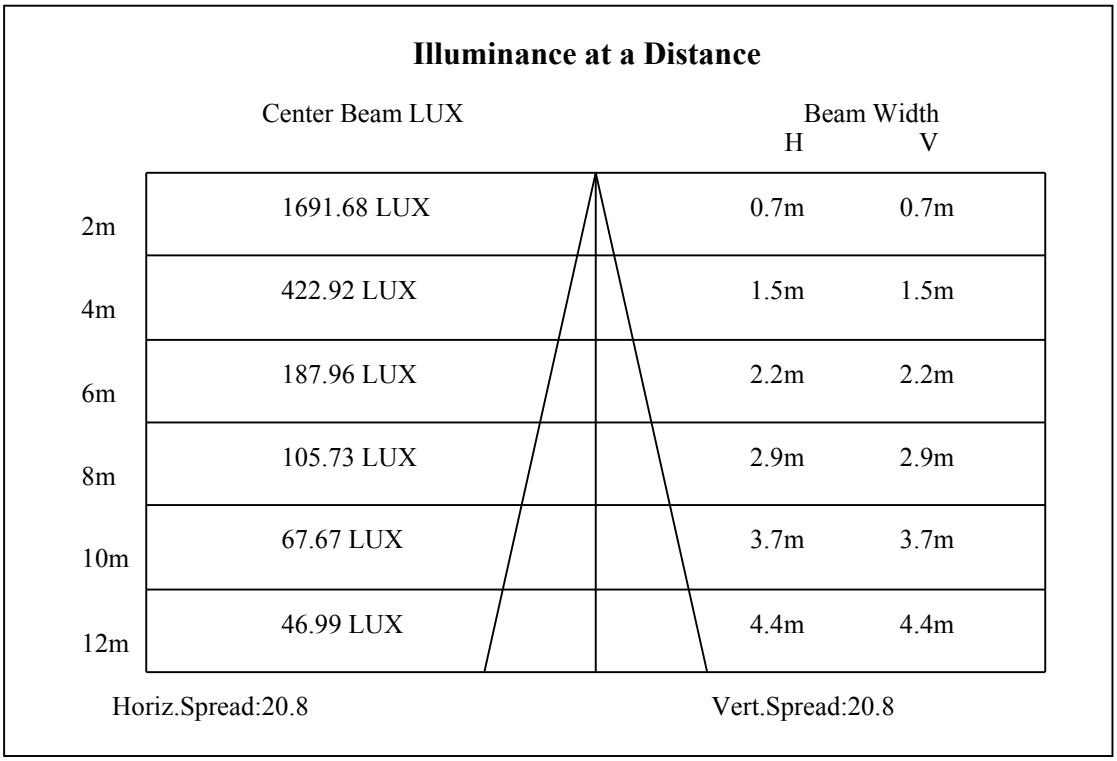
C0/C180:

C90/C270:

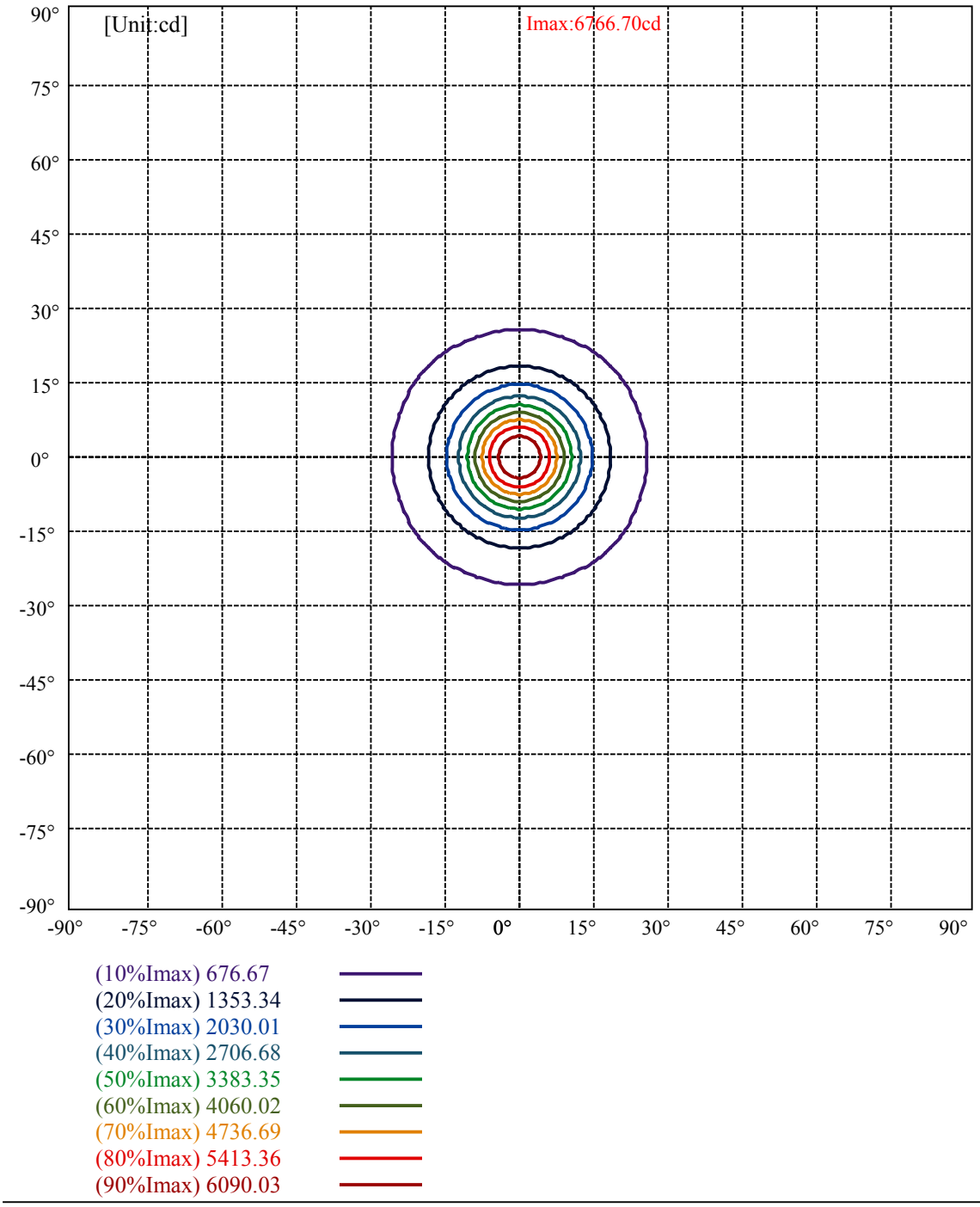
Field angle(10%Imax):C0/180Left:25.4 Right:25.4
:C90/270Left:25.4 Right:25.4

Beam Angle(50%Imax):C0/180Left:10.4 Right:10.4
:C90/270Left:10.4 Right:10.4

Lux distance Curve



ISO-Intensity(V-H)

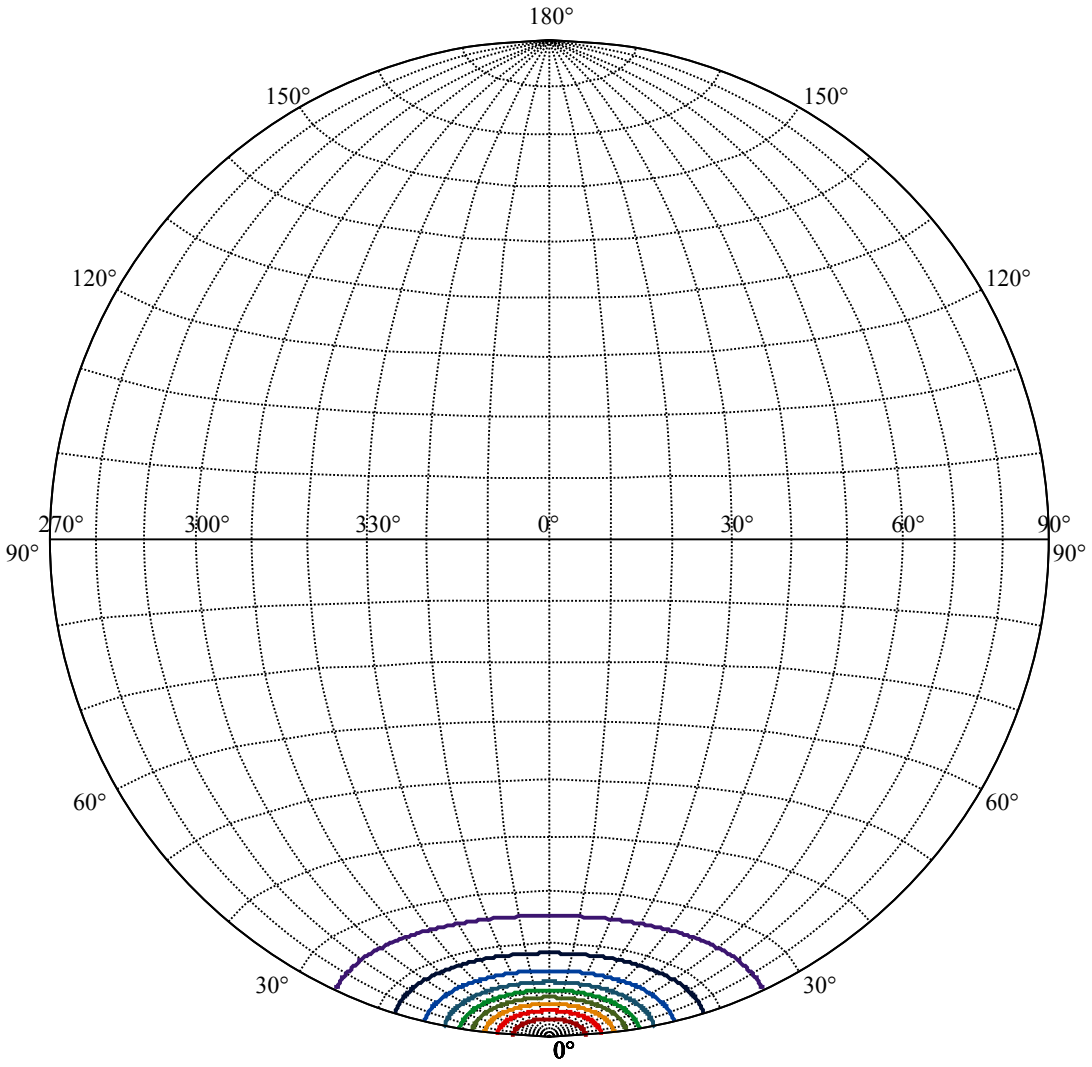


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/12/05
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

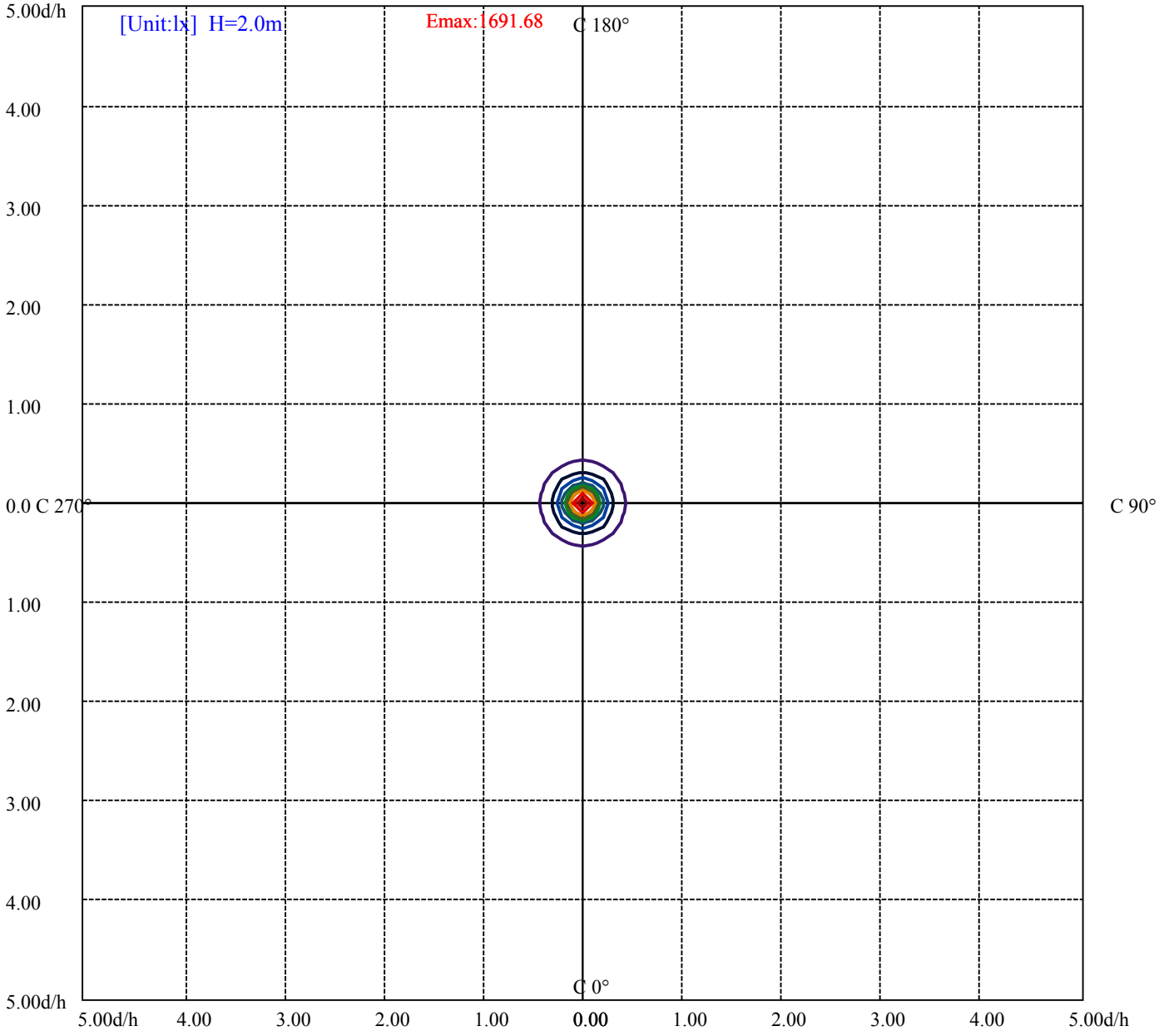
Imax:6766.70

(10%Imax) 676.67
(20%Imax) 1353.34
(30%Imax) 2030.01
(40%Imax) 2706.68
(50%Imax) 3383.35
(60%Imax) 4060.02
(70%Imax) 4736.69
(80%Imax) 5413.36
(90%Imax) 6090.03

Equipment: GMS1980 Date: 2023/12/05 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

NT 1-1377-L

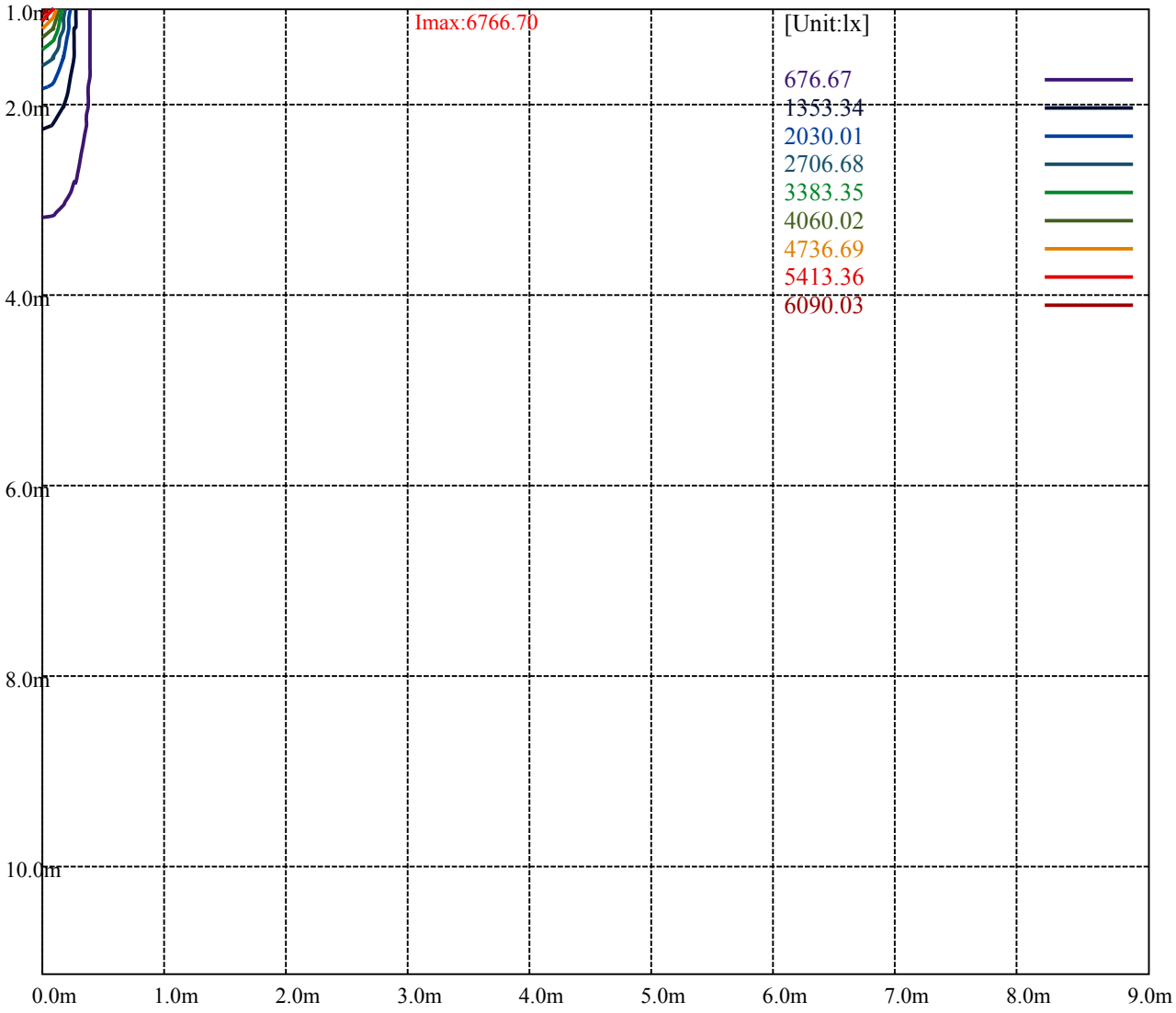
ISO illuminance diagram



(10%Emax) 169.1675
(20%Emax) 338.335
(30%Emax) 507.5025
(40%Emax) 676.67
(50%Emax) 845.8375
(60%Emax) 1015.005
(70%Emax) 1184.172
(80%Emax) 1353.34
(90%Emax) 1522.507

Equipment: GMS1980
Temperature(°C): 0.0
Date: 2023/12/05
Humidity(%): 0.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/12/05
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

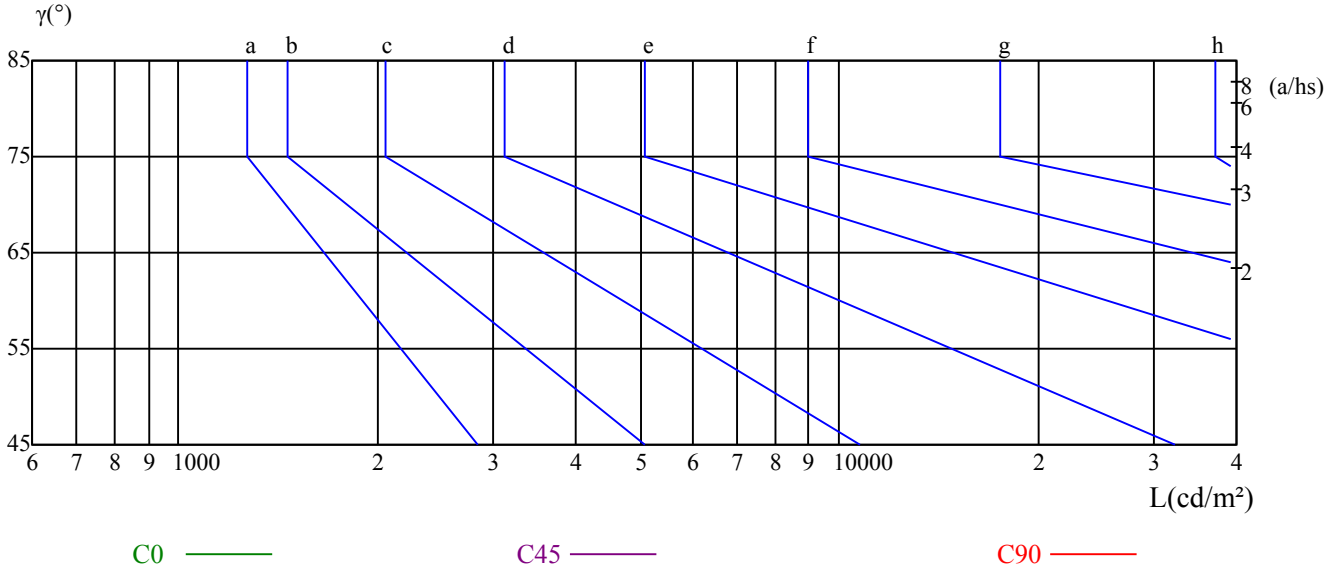
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

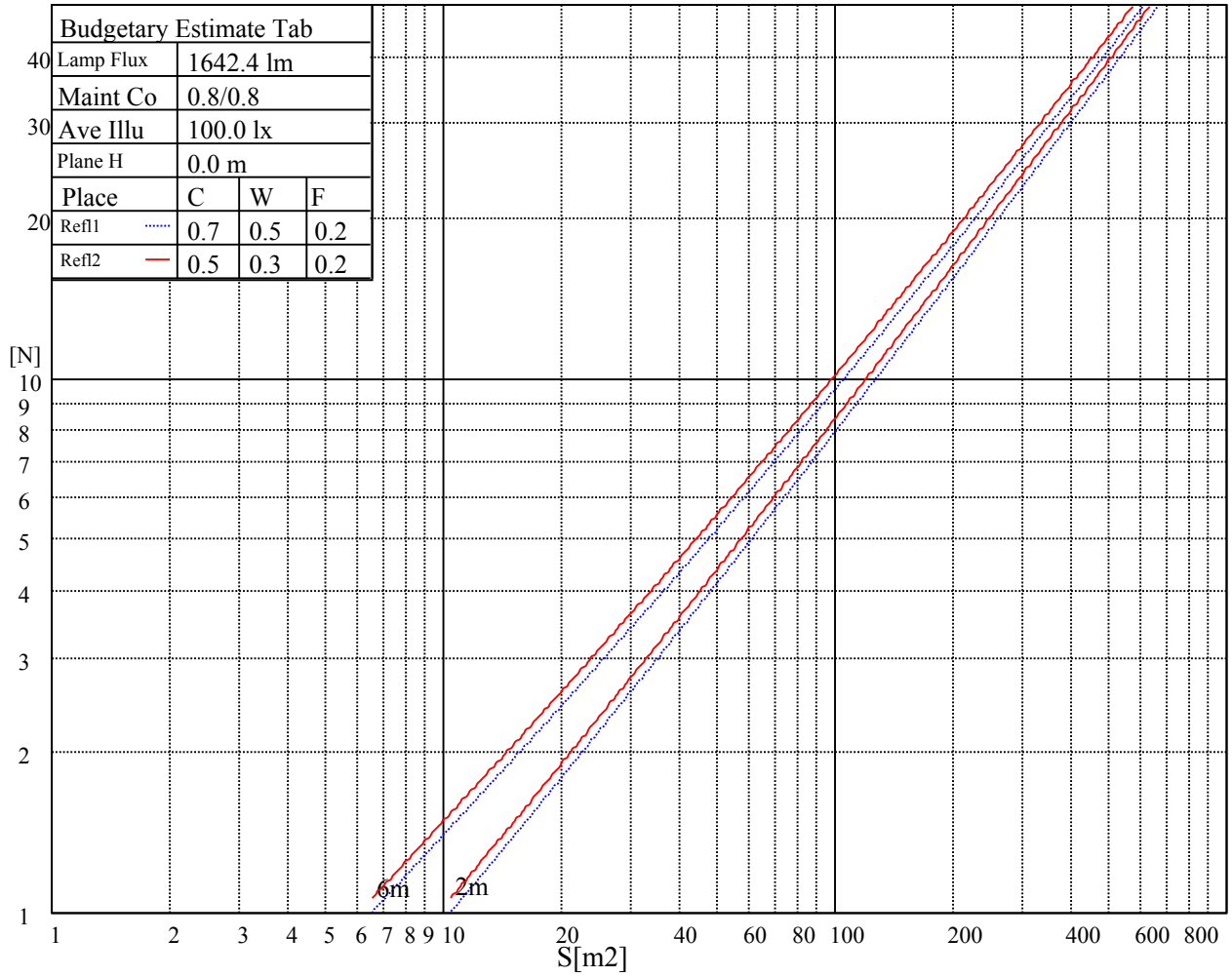
Luminance Limitting Curve



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

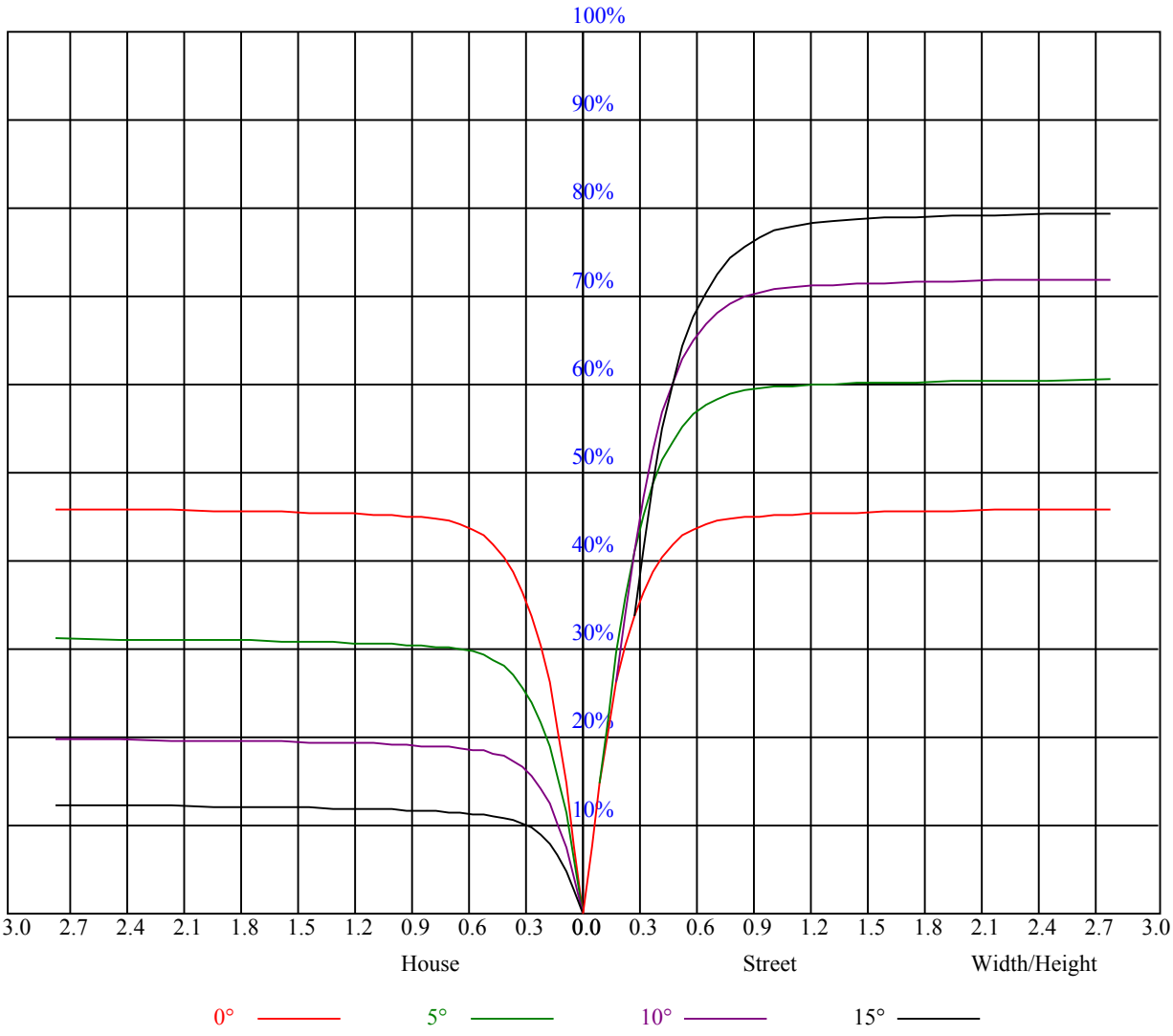


Equipment: GMS1980 Date: 2023/12/05 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	1.00	1.01	1.00	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.90	0.88
2	0.98	0.95	0.92	0.96	0.93	0.91	0.93	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.85	0.84
3	0.93	0.89	0.86	0.92	0.88	0.86	0.89	0.87	0.84	0.87	0.85	0.83	0.85	0.83	0.82	0.80
4	0.89	0.85	0.81	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
5	0.85	0.81	0.78	0.84	0.80	0.77	0.83	0.79	0.77	0.81	0.78	0.76	0.80	0.77	0.75	0.74
6	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.77	0.75	0.72	0.71
7	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
8	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.73	0.70	0.68	0.67
9	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.71	0.68	0.65	0.64
10	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.63	0.62

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/12/05	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	6735.98	6619.74	6441.50	6191.30	5778.92	5389.78	4969.65	4408.91	3961.10
45.0	6791.89	6787.46	6721.59	6542.80	6313.63	6008.63	5550.86	5136.81	4692.88
90.0	6771.41	6689.48	6494.64	6255.51	5944.42	5580.20	5070.94	4625.35	4170.89
135.0	6767.53	6744.84	6650.18	6496.30	6204.03	5887.41	5516.54	5114.12	4570.55
180.0	6735.98	6789.12	6759.78	6660.70	6504.05	6210.67	5896.27	5427.42	5004.52
225.0	6791.89	6729.89	6563.83	6364.56	6088.90	5750.13	5254.16	4805.25	4343.60
270.0	6771.41	6785.80	6722.14	6590.40	6343.52	6063.43	5723.56	5329.44	4776.46
315.0	6767.53	6708.86	6592.06	6408.84	6086.68	5761.76	5373.73	4827.39	4370.17
360.0	6735.98	6619.74	6441.50	6191.30	5778.92	5389.78	4969.65	4408.91	3961.10

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3533.77	3043.34	2695.72	2389.06	2076.31	1869.84	1688.84	1529.42	1363.36
45.0	4130.49	3698.17	3290.77	2828.57	2507.52	2229.64	1991.62	1743.08	1581.45
90.0	3737.48	3229.33	2861.23	2537.41	2261.75	1972.25	1775.19	1570.94	1428.68
135.0	4128.83	3705.37	3211.06	2850.16	2455.49	2193.11	1965.61	1771.32	1572.04
180.0	4547.85	4003.73	3576.95	3173.42	2732.25	2425.04	2164.33	1941.25	1709.32
225.0	3782.31	3364.95	2987.99	2573.39	2291.09	2000.48	1805.63	1636.81	1487.35
270.0	4312.60	3875.31	3454.62	2970.83	2625.97	2327.07	2033.69	1822.79	1648.43
315.0	3921.80	3397.05	3014.56	2666.38	2367.47	2061.37	1852.13	1671.13	1515.58
360.0	3533.77	3043.34	2695.72	2389.06	2076.31	1869.84	1688.84	1529.42	1363.36

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1095.56	1095.56	1048.01	938.69	856.32	779.60	689.37	619.46	532.45
45.0	1436.98	1312.99	1179.03	1085.48	974.22	891.75	815.36	723.47	652.07
90.0	1223.87	1092.57	1068.49	976.16	893.46	798.48	721.81	648.74	578.89
135.0	1433.66	1313.54	1205.60	1087.14	998.03	913.89	813.70	736.20	662.03
180.0	1548.79	1408.75	1282.54	1181.80	1067.22	978.65	871.27	798.75	727.35
225.0	1328.49	1090.02	1090.02	1021.22	936.14	839.38	765.21	694.24	607.34
270.0	1462.44	1339.56	1221.65	1097.11	1004.11	916.10	818.13	742.29	669.78
315.0	1345.09	1098.60	1098.60	1029.74	920.64	840.05	744.78	672.32	604.18
360.0	1095.56	1095.56	1048.01	938.69	856.32	779.60	689.37	619.46	532.45

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	465.19	402.31	344.47	283.63	240.51	203.48	171.49	137.72	115.30
45.0	580.66	512.02	429.54	370.32	318.84	283.96	283.96	184.44	155.38
90.0	493.03	427.61	369.49	318.73	260.88	221.91	180.40	152.11	127.65
135.0	572.91	503.72	421.79	364.23	312.75	288.95	288.95	181.23	152.83
180.0	635.46	567.37	499.29	418.47	358.14	306.11	281.75	281.75	174.92
225.0	538.20	471.17	393.01	337.27	275.99	232.82	196.45	165.51	132.63
270.0	601.14	518.11	450.58	389.14	335.44	285.62	285.62	183.72	154.77
315.0	520.21	455.01	393.29	324.15	275.94	233.59	197.61	159.86	133.96
360.0	465.19	402.31	344.47	283.63	240.51	203.48	171.49	137.72	115.30

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	97.03	81.98	66.70	57.35	48.32	42.73	38.08	33.38	30.11
45.0	129.86	104.12	87.40	70.85	60.50	50.70	44.45	39.36	35.09
90.0	102.96	87.02	73.68	60.56	52.36	45.83	40.46	35.04	31.50
135.0	128.03	103.18	87.29	74.45	63.99	53.64	47.16	41.79	36.42
180.0	147.13	123.49	99.69	84.08	71.07	58.40	50.43	44.23	38.14
225.0	110.93	93.10	78.49	66.54	54.63	47.16	40.19	35.87	32.33
270.0	129.75	104.56	88.57	75.11	63.99	53.14	46.44	41.02	36.53
315.0	112.20	94.32	76.44	64.87	55.58	46.50	40.80	35.09	31.55
360.0	97.03	81.98	66.70	57.35	48.32	42.73	38.08	33.38	30.11

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	27.51	24.85	23.14	21.70	20.43	19.15	18.21	17.44	16.77
45.0	30.72	27.95	25.63	23.64	21.64	20.37	19.32	18.32	17.33
90.0	28.56	26.13	23.64	22.09	20.48	19.32	18.43	17.38	16.72
135.0	32.94	29.39	27.07	24.96	23.25	21.42	20.20	19.15	18.32
180.0	34.32	30.28	27.68	25.46	23.69	22.14	20.54	19.43	18.49
225.0	28.73	26.35	24.36	22.36	20.98	19.82	18.88	17.77	17.05
270.0	31.99	29.12	26.74	24.30	22.69	21.26	19.82	18.82	17.99
315.0	28.62	26.24	23.80	22.20	20.81	19.71	18.43	17.60	16.88
360.0	27.51	24.85	23.14	21.70	20.43	19.15	18.21	17.44	16.77

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	16.05	15.55	15.11	14.67	14.34	13.95	13.73	13.45	13.23
45.0	16.66	16.05	15.44	15.00	14.50	14.17	13.84	13.56	13.28
90.0	16.16	15.61	15.06	14.67	14.28	14.00	13.67	13.45	13.23
135.0	17.33	16.72	16.11	15.61	15.06	14.67	14.23	13.95	13.67
180.0	17.66	16.77	16.16	15.55	15.11	14.67	14.23	13.95	13.62
225.0	16.44	15.83	15.28	14.83	14.50	14.06	13.78	13.45	13.17
270.0	17.05	16.44	15.89	15.39	14.89	14.50	14.17	13.89	13.56
315.0	16.11	15.61	15.17	14.67	14.28	14.00	13.67	13.40	13.17
360.0	16.05	15.55	15.11	14.67	14.34	13.95	13.73	13.45	13.23

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	12.95	12.62	12.34	12.07	11.57	11.24	10.90	10.57	10.24
45.0	13.06	12.84	12.62	12.29	12.01	11.62	11.29	10.90	10.57
90.0	12.95	12.68	12.40	12.07	11.68	11.18	10.85	10.52	10.24
135.0	13.34	13.06	12.79	12.51	12.07	11.68	11.35	11.02	10.57
180.0	13.34	13.06	12.79	12.51	12.23	11.85	11.46	11.13	10.74
225.0	12.95	12.57	12.29	12.01	11.68	11.29	10.90	10.63	10.35
270.0	13.34	13.06	12.73	12.45	12.07	11.68	11.35	10.90	10.63
315.0	12.90	12.62	12.34	12.07	11.73	11.29	10.96	10.57	10.24
360.0	12.95	12.62	12.34	12.07	11.57	11.24	10.90	10.57	10.24

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.96	9.69	9.41	9.19	8.91	8.69	8.47	8.25	7.97
45.0	10.19	9.85	9.63	9.35	9.13	8.91	8.75	8.47	8.25
90.0	9.96	9.63	9.41	9.19	8.97	8.69	8.52	8.30	8.08
135.0	10.30	10.02	9.74	9.52	9.30	8.97	8.75	8.47	8.30
180.0	10.46	10.13	9.80	9.58	9.24	9.02	8.80	8.58	8.30
225.0	10.07	9.74	9.52	9.24	8.97	8.80	8.52	8.30	8.08
270.0	10.35	10.07	9.74	9.52	9.24	9.02	8.75	8.52	8.30
315.0	10.02	9.69	9.47	9.24	8.97	8.75	8.52	8.36	8.14
360.0	9.96	9.69	9.41	9.19	8.91	8.69	8.47	8.25	7.97

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.80	7.64	7.47	7.25	7.09	6.97	6.81	6.59	6.59
45.0	8.08	7.86	7.64	7.47	7.25	7.09	6.97	6.81	6.59
90.0	7.97	7.75	7.53	7.36	7.20	7.09	6.92	6.81	6.53
135.0	8.14	8.03	7.80	7.53	7.36	7.14	7.03	6.92	6.64
180.0	8.14	7.86	7.75	7.58	7.36	7.20	7.03	6.92	6.75
225.0	7.86	7.75	7.58	7.36	7.20	7.09	6.97	6.86	6.53
270.0	8.08	7.92	7.75	7.58	7.36	7.20	7.09	6.92	6.70
315.0	7.92	7.75	7.58	7.42	7.25	7.09	6.97	6.81	6.59
360.0	7.80	7.64	7.47	7.25	7.09	6.97	6.81	6.59	6.59

Intensity data(cd)

C/γ(°)	90.0
0.0	6.59
45.0	6.53
90.0	6.59
135.0	6.59
180.0	6.48
225.0	6.59
270.0	6.59
315.0	6.59
360.0	6.59