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NATA

Client:
LumCAT: 2-2643-L
Luminaire: 92.70.412.00
Report No: 20231013-B006
Ballast type: AC

Test No: 20231013-C006	Voltage(V): 34.070
LampCAT: LUMINUS CXM-14-AC40	Current(A): 0.530
Lamp flux(lm): 2320.0	Power (W): 18.057
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2201.69, Efficiency(%): 94.90% , Luminous Efficacy(lm/W): 121.93
Central intensity(cd): 10994.610, Maximum intensity(cd): 10994.610
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=18.8
[C90/270]Total=18.8
Field angle(10%Imax): [C0/180]Total=48.2
[C90/270]Total=48.2
Maximum s/h(1/2): C0_180=0.32 C90_270=0.32
Maximum s/h(1/4): C0_180=0.35 C90_270=0.35
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.90%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.151%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10994.609	0.000	0	0.00%	0.00%
1.0	10912.547	10.482	10.482	0.45%	0.48%
2.0	10686.220	31.001	41.483	1.34%	1.88%
3.0	10262.973	50.104	91.586	2.16%	4.16%
4.0	9667.575	66.714	158.3	2.88%	7.19%
5.0	8970.812	80.181	238.482	3.46%	10.83%
6.0	8226.098	90.374	328.856	3.90%	14.94%
7.0	7472.390	97.440	426.296	4.20%	19.36%
8.0	6614.686	100.819	527.115	4.35%	23.94%
9.0	5807.838	100.678	627.793	4.34%	28.51%
10.0	5067.276	98.416	726.208	4.24%	32.98%
11.0	4432.716	94.924	821.133	4.09%	37.30%
12.0	3883.263	90.906	912.038	3.92%	41.42%
13.0	3377.538	86.167	998.206	3.71%	45.34%
14.0	2980.999	81.389	1079.594	3.51%	49.03%
15.0	2700.633	78.000	1157.594	3.36%	52.58%
16.0	2545.089	76.865	1234.459	3.31%	56.07%
17.0	2229.366	74.351	1308.81	3.20%	59.45%
18.0	1960.348	69.079	1377.889	2.98%	62.58%
19.0	1788.129	65.216	1443.105	2.81%	65.55%
20.0	1622.483	62.424	1505.529	2.69%	68.38%
21.0	1451.102	59.019	1564.548	2.54%	71.06%
22.0	1294.465	55.173	1619.721	2.38%	73.57%
23.0	1193.334	52.201	1671.922	2.25%	75.94%
24.0	1111.770	50.398	1722.32	2.17%	78.23%
25.0	1005.899	48.151	1770.471	2.08%	80.41%
26.0	904.824	45.103	1815.574	1.94%	82.46%
27.0	803.963	41.806	1857.38	1.80%	84.36%
28.0	711.204	38.361	1895.74	1.65%	86.10%
29.0	622.548	34.895	1930.635	1.50%	87.69%
30.0	532.522	31.187	1961.822	1.34%	89.11%
31.0	450.827	27.365	1989.187	1.18%	90.35%
32.0	380.376	23.813	2013	1.03%	91.43%
33.0	317.446	20.558	2033.558	0.89%	92.36%
34.0	267.143	17.691	2051.249	0.76%	93.17%
35.0	236.471	15.640	2066.89	0.67%	93.88%
36.0	192.354	13.654	2080.544	0.59%	94.50%
37.0	139.643	10.828	2091.372	0.47%	94.99%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	112.133	8.404	2099.776	0.36%	95.37%
39.0	91.984	6.967	2106.743	0.30%	95.69%
40.0	75.523	5.842	2112.585	0.25%	95.95%
41.0	62.377	4.911	2117.495	0.21%	96.18%
42.0	52.309	4.167	2121.662	0.18%	96.37%
43.0	44.926	3.602	2125.264	0.16%	96.53%
44.0	39.356	3.181	2128.445	0.14%	96.67%
45.0	35.226	2.866	2131.311	0.12%	96.80%
46.0	32.154	2.635	2133.946	0.11%	96.92%
47.0	29.427	2.449	2136.395	0.11%	97.03%
48.0	27.255	2.291	2138.687	0.10%	97.14%
49.0	25.407	2.163	2140.849	0.09%	97.24%
50.0	24.003	2.060	2142.909	0.09%	97.33%
51.0	22.709	1.976	2144.886	0.09%	97.42%
52.0	21.657	1.904	2146.79	0.08%	97.51%
53.0	20.834	1.848	2148.638	0.08%	97.59%
54.0	20.128	1.805	2150.443	0.08%	97.67%
55.0	19.554	1.771	2152.215	0.08%	97.75%
56.0	19.159	1.749	2153.964	0.08%	97.83%
57.0	18.889	1.740	2155.704	0.07%	97.91%
58.0	18.751	1.741	2157.444	0.08%	97.99%
59.0	18.751	1.753	2159.198	0.08%	98.07%
60.0	18.744	1.771	2160.969	0.08%	98.15%
61.0	18.751	1.789	2162.758	0.08%	98.23%
62.0	18.716	1.805	2164.564	0.08%	98.31%
63.0	18.557	1.813	2166.376	0.08%	98.40%
64.0	18.114	1.799	2168.176	0.08%	98.48%
65.0	17.526	1.764	2169.94	0.08%	98.56%
66.0	16.876	1.716	2171.656	0.07%	98.64%
67.0	16.087	1.657	2173.314	0.07%	98.71%
68.0	15.312	1.591	2174.904	0.07%	98.78%
69.0	14.689	1.531	2176.435	0.07%	98.85%
70.0	14.081	1.478	2177.912	0.06%	98.92%
71.0	13.548	1.428	2179.34	0.06%	98.98%
72.0	13.140	1.388	2180.728	0.06%	99.05%
73.0	12.807	1.357	2182.085	0.06%	99.11%
74.0	12.517	1.331	2183.416	0.06%	99.17%
75.0	12.226	1.307	2184.724	0.06%	99.23%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.956	1.284	2186.007	0.06%	99.29%
77.0	11.687	1.261	2187.268	0.05%	99.34%
78.0	11.444	1.238	2188.506	0.05%	99.40%
79.0	11.188	1.216	2189.722	0.05%	99.46%
80.0	10.925	1.192	2190.914	0.05%	99.51%
81.0	10.676	1.168	2192.082	0.05%	99.56%
82.0	10.434	1.145	2193.227	0.05%	99.62%
83.0	10.192	1.121	2194.349	0.05%	99.67%
84.0	9.984	1.099	2195.448	0.05%	99.72%
85.0	9.798	1.080	2196.527	0.05%	99.77%
86.0	9.625	1.062	2197.589	0.05%	99.81%
87.0	9.472	1.045	2198.634	0.05%	99.86%
88.0	9.341	1.031	2199.665	0.04%	99.91%
89.0	9.216	1.017	2200.682	0.04%	99.95%
90.0	9.154	1.007	2201.689	0.04%	100.00%

Zonal flux distribution table

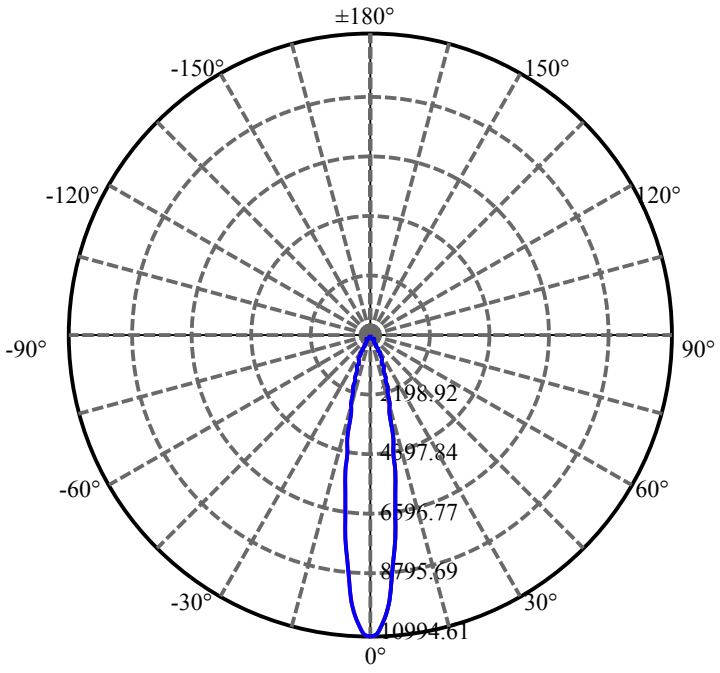
ZONAL LUMEN SUMMARY

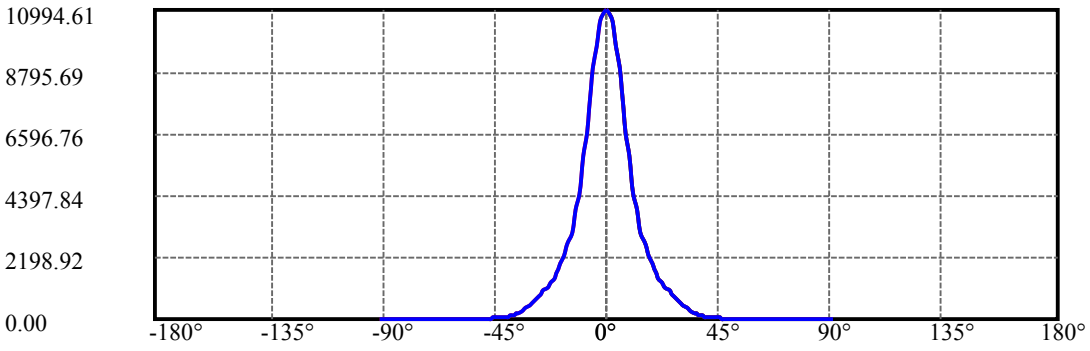
Zone	Lumens	%Lamp	%Fixt
0-30	1961.82	84.56%	89.11%
0-40	2112.58	91.06%	95.95%
0-60	2160.97	93.15%	98.15%
0-90	2200.68	94.86%	99.95%
0-120	2200.68	94.86%	99.95%
0-180	2201.69	94.90%	100.00%
60-90	39.71	1.71%	1.80%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.81	1761.35	75.92%	80.00%

ZONAL LUMEN SUMMARY

0-10	726.21
10-20	779.32
20-30	456.29
30-40	150.76
40-50	30.32
50-60	18.06
60-70	16.94
70-80	13.00
80-90	9.77
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):

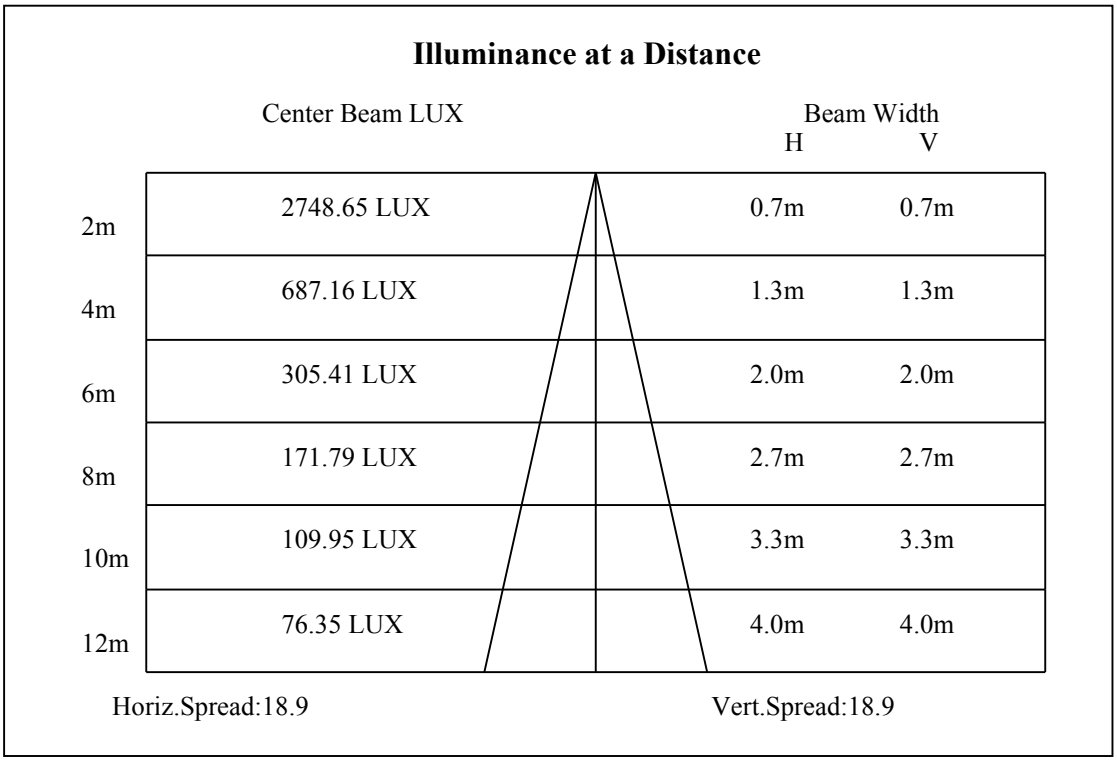
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:24.1 Right:24.1
:C90/270Left:24.1 Right:24.1

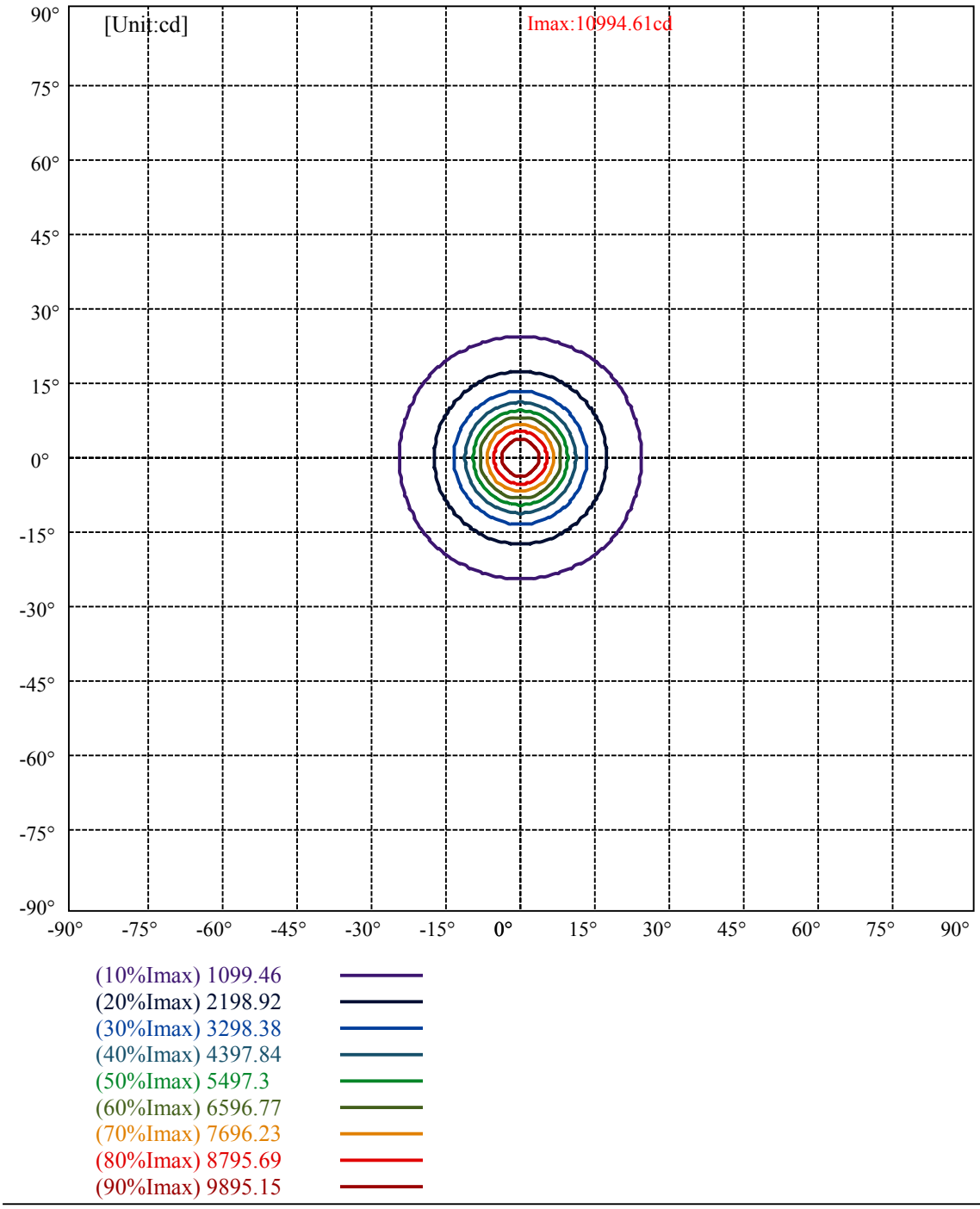
Beam Angle(50%Imax):C0/180Left:9.4 Right:9.4
:C90/270Left:9.4 Right:9.4

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)

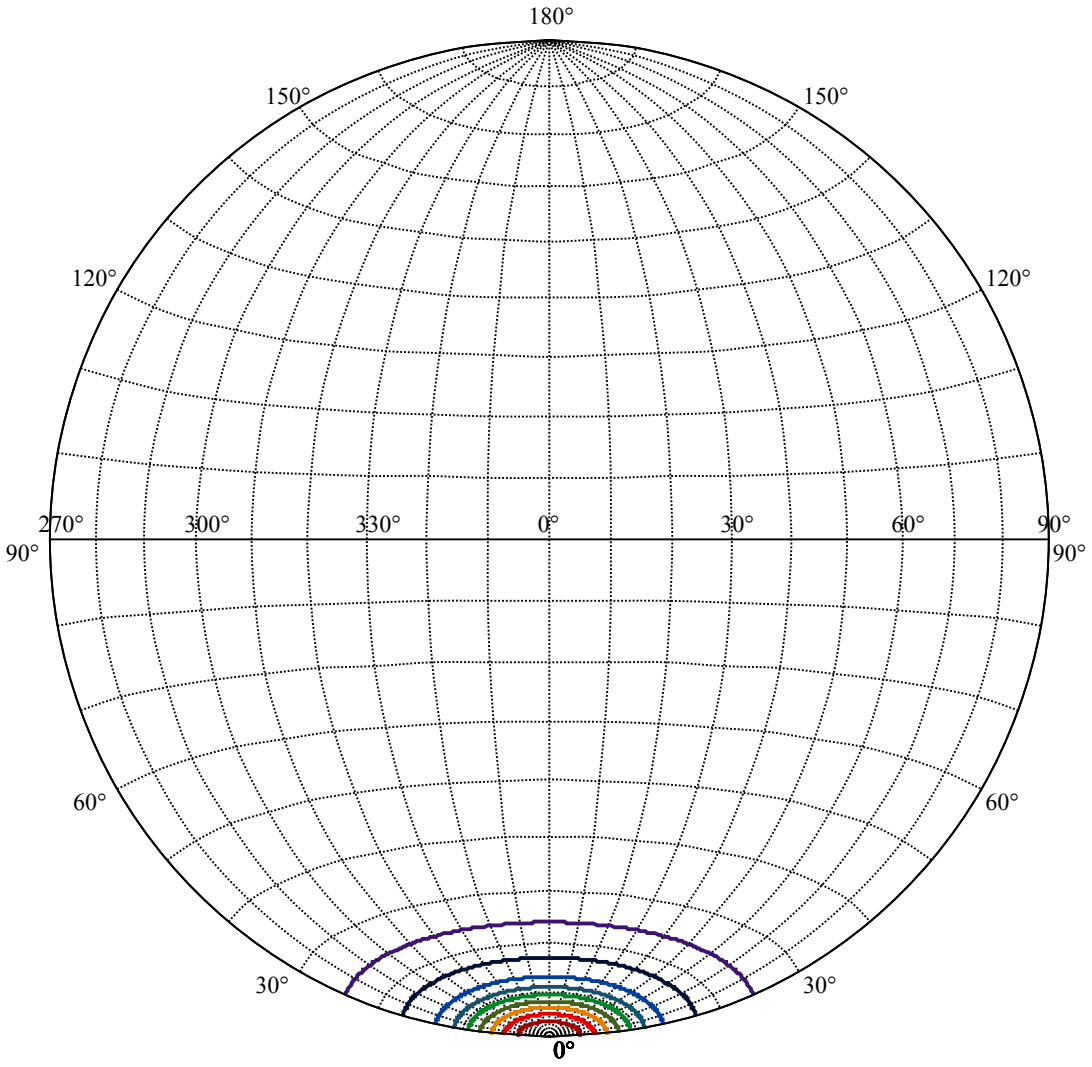


Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:10994.61

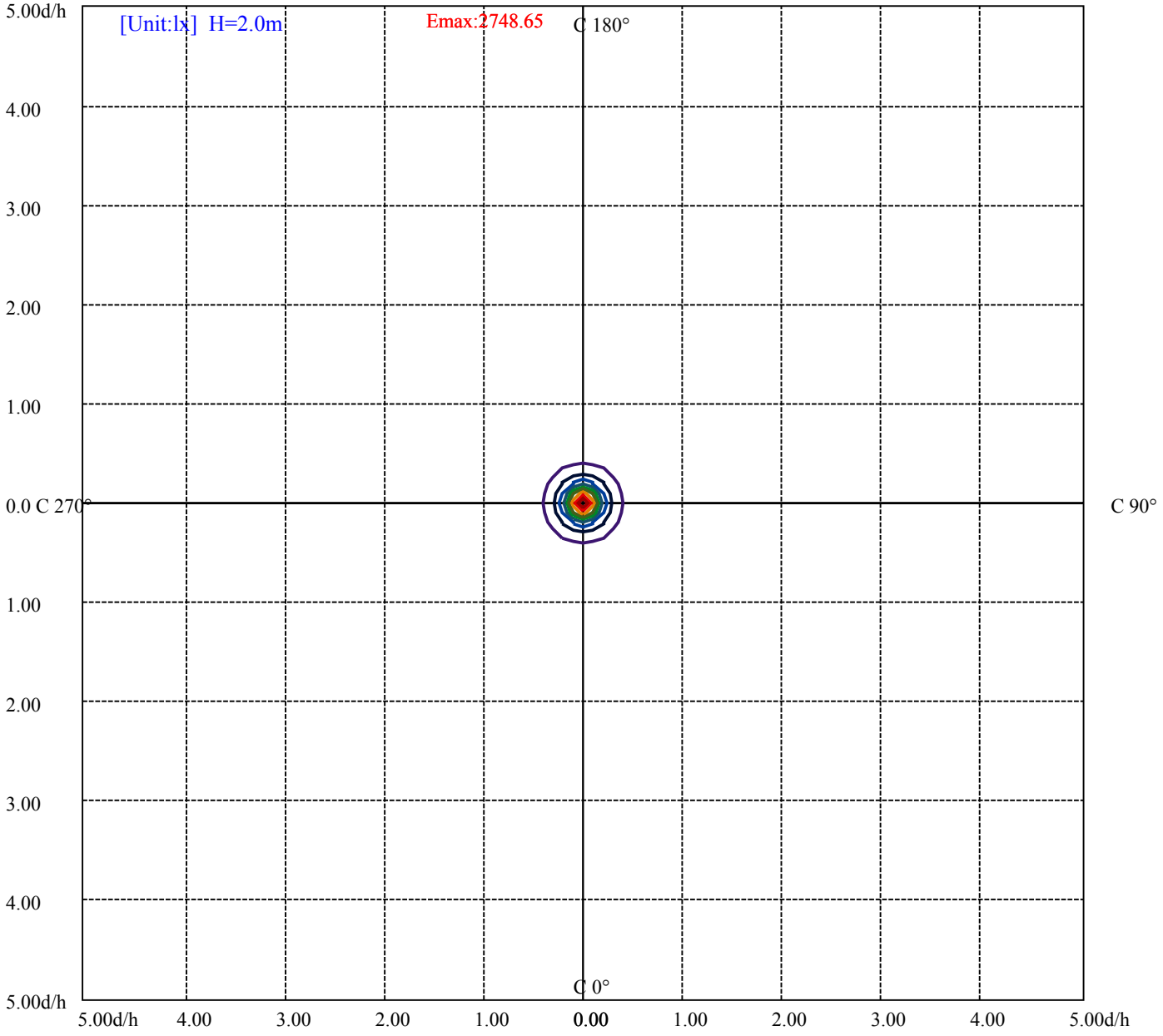
(10%Imax) 1099.46
(20%Imax) 2198.92
(30%Imax) 3298.38
(40%Imax) 4397.84
(50%Imax) 5497.3
(60%Imax) 6596.77
(70%Imax) 7696.23
(80%Imax) 8795.69
(90%Imax) 9895.15

Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

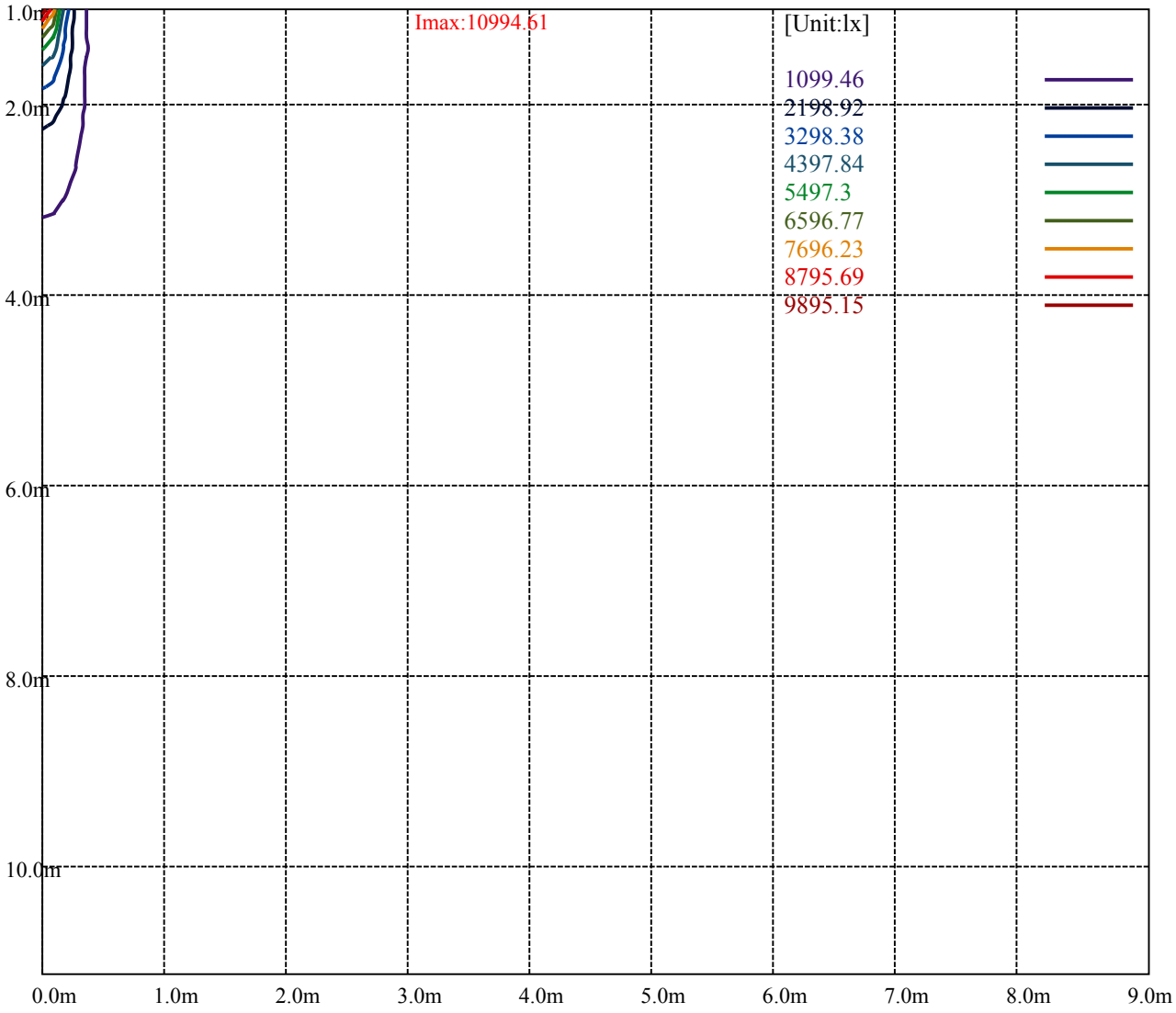
ISO illuminance diagram



(10%Emax) 274.865
(20%Emax) 549.73
(30%Emax) 824.595
(40%Emax) 1099.46
(50%Emax) 1374.325
(60%Emax) 1649.19
(70%Emax) 1924.055
(80%Emax) 2198.92
(90%Emax) 2473.785

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

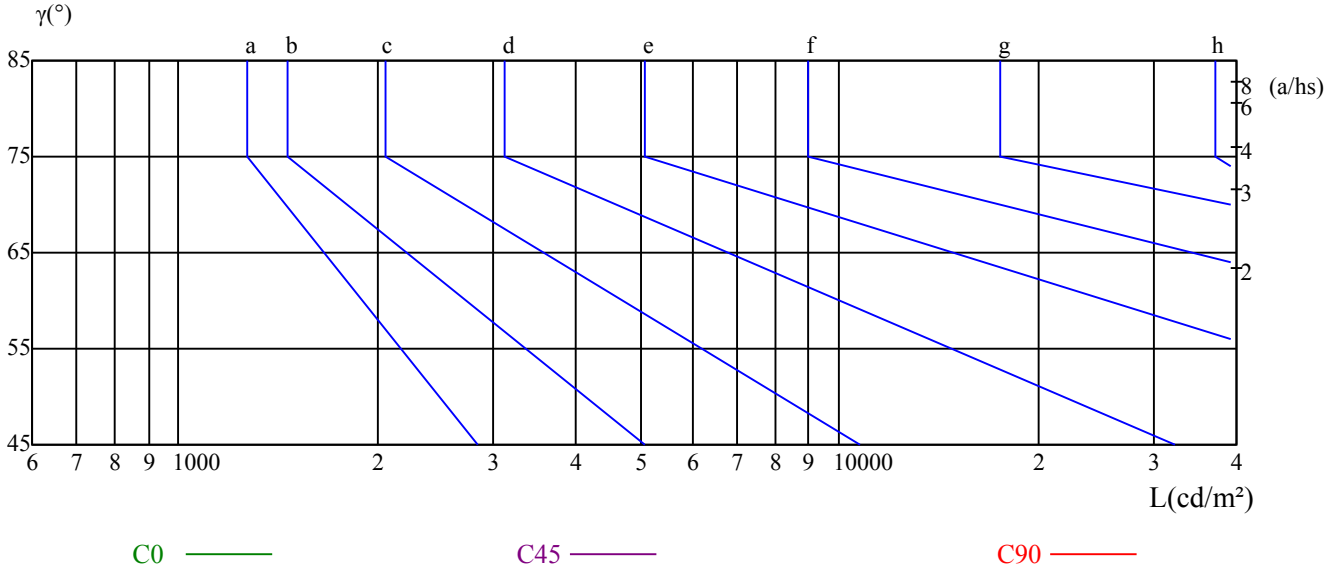
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

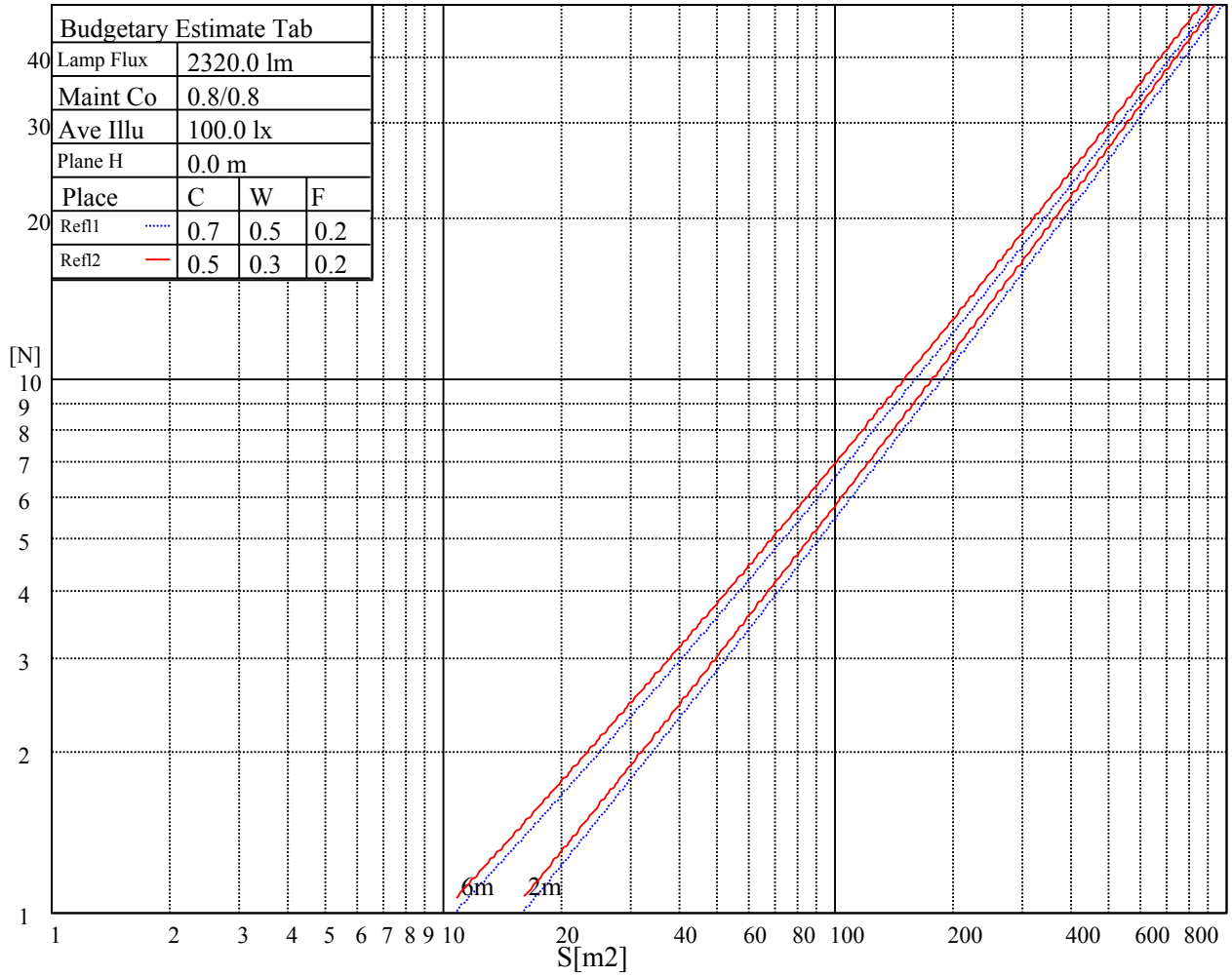
Luminance Limitting Curve



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

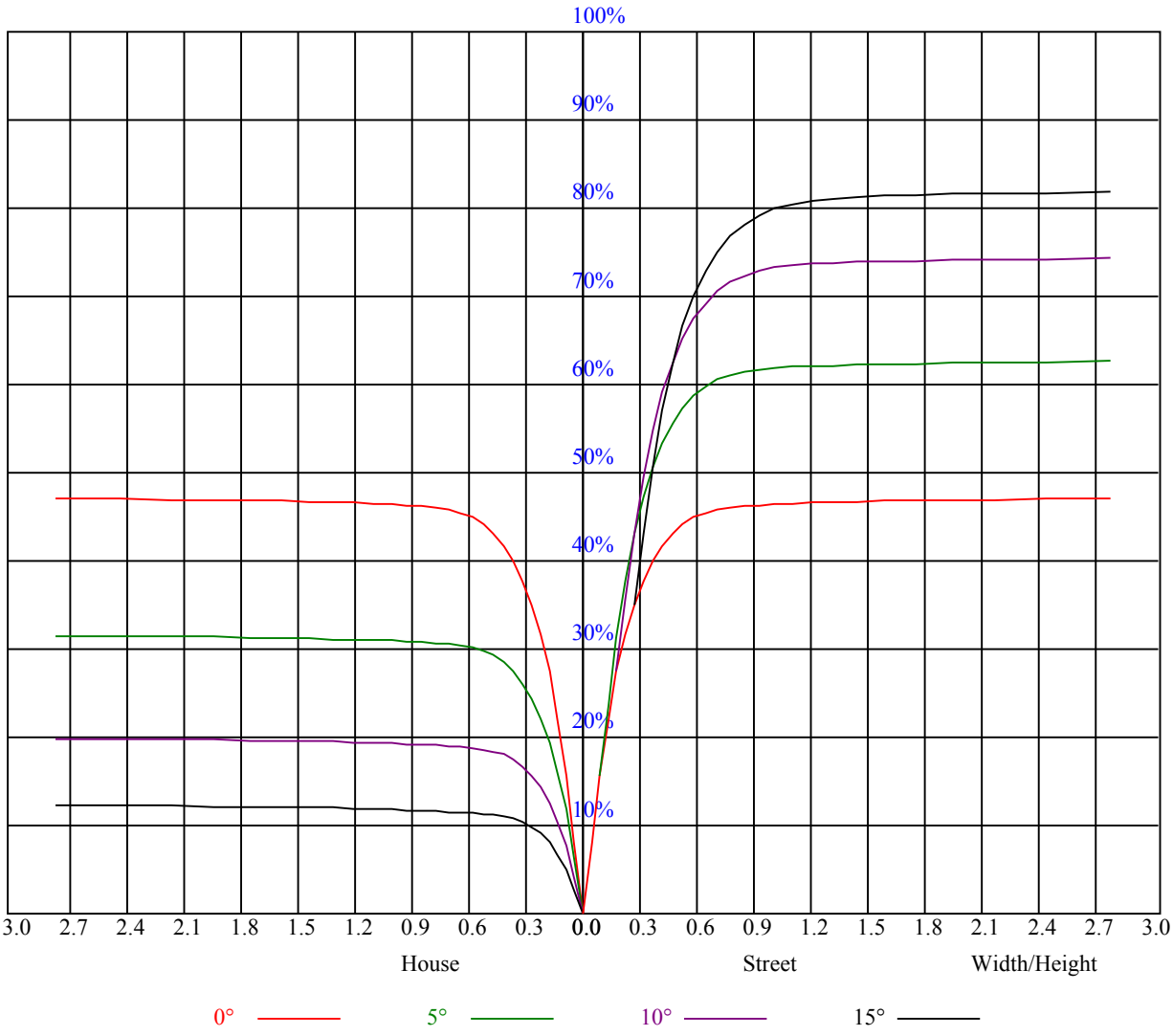
Budgetary Estimate Table



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	1.13	1.13	1.13	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.06	1.04	1.02	1.04	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.01	0.97	0.95	0.99	0.96	0.94	0.96	0.94	0.92	0.93	0.91	0.90	0.91	0.89	0.88	0.86
3	0.96	0.92	0.89	0.94	0.91	0.88	0.92	0.89	0.87	0.90	0.87	0.85	0.88	0.86	0.84	0.83
4	0.91	0.87	0.84	0.90	0.87	0.84	0.89	0.85	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.80
5	0.88	0.83	0.80	0.87	0.83	0.80	0.85	0.82	0.79	0.84	0.81	0.78	0.82	0.80	0.78	0.77
6	0.84	0.80	0.77	0.84	0.79	0.76	0.82	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.74
7	0.81	0.77	0.74	0.81	0.76	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.78	0.75	0.72	0.71
8	0.78	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
9	0.76	0.71	0.69	0.75	0.71	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67
10	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.65

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	10948.94	10480.65	10000.18	9437.79	8558.77	7839.18	7078.62	6309.20	5414.14
45.0	10999.87	10954.48	10605.75	10129.71	9542.96	8707.12	7976.45	7223.64	6470.84
90.0	11014.26	10698.19	10246.50	9673.60	8837.76	8118.16	7183.24	6424.34	5679.28
135.0	11015.37	11115.00	10871.45	10334.52	9797.59	9122.27	8397.14	7655.40	6703.32
180.0	10948.94	11022.56	11022.56	10937.87	10589.14	10102.03	9360.29	8635.16	7865.75
225.0	10999.87	10999.87	10927.91	10464.60	9949.26	9157.15	8441.98	7657.06	6860.53
270.0	11014.26	11014.26	11098.40	10849.31	10334.52	9797.59	9166.56	8458.03	7494.88
315.0	11015.37	11015.37	10717.01	10276.40	9730.61	8923.00	8204.51	7416.28	6428.77
360.0	10948.94	10480.65	10000.18	9437.79	8558.77	7839.18	7078.62	6309.20	5414.14

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4774.80	4196.91	3695.96	3178.40	2842.41	2570.62	2276.14	2078.53	1863.76
45.0	5579.64	4943.08	4356.33	3841.54	3310.15	2966.95	2823.03	2823.03	2152.15
90.0	5008.95	4276.62	3765.71	3337.27	2987.43	2638.71	2392.94	2182.04	1958.96
135.0	5950.51	5070.39	4467.04	3930.11	3371.03	3005.70	2845.18	2845.18	2174.29
180.0	6891.52	6122.11	5380.37	4688.45	3974.39	3492.81	3105.34	2845.18	2845.18
225.0	5884.64	5159.51	4516.30	3954.46	3381.00	3006.25	2633.72	2382.42	2167.65
270.0	6703.32	5950.51	5053.78	4422.75	3874.75	3315.68	2955.88	2872.85	2540.73
315.0	5669.32	4819.08	4226.25	3713.12	3279.15	2851.26	2572.84	2331.49	2132.22
360.0	4774.80	4196.91	3695.96	3178.40	2842.41	2570.62	2276.14	2078.53	1863.76

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1705.44	1558.76	1427.02	1094.40	1094.40	1069.60	971.90	858.87	769.03
45.0	1971.70	1769.65	1617.99	1446.39	1329.59	1223.31	1122.02	1001.90	908.35
90.0	1799.55	1647.32	1477.94	1358.93	1090.02	1090.02	1016.40	924.18	831.63
135.0	1991.07	1825.01	1640.13	1501.19	1376.09	1260.40	1126.45	1026.81	928.28
180.0	2227.43	2041.44	1829.99	1679.98	1543.26	1377.20	1265.94	1161.87	1032.90
225.0	1933.50	1763.57	1610.24	1471.85	1233.83	1098.71	1098.71	1000.52	884.16
270.0	2144.40	1953.43	1780.17	1597.50	1464.66	1337.34	1226.64	1102.09	1004.67
315.0	1909.70	1745.85	1596.40	1458.57	1223.87	1090.08	1066.11	970.96	879.57
360.0	1705.44	1558.76	1427.02	1094.40	1094.40	1069.60	971.90	858.87	769.03

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	678.80	595.38	500.34	431.65	352.33	296.20	247.10	194.46	160.53
45.0	816.47	727.90	642.10	541.91	469.95	388.03	329.35	288.95	288.95
90.0	716.00	626.44	545.68	471.11	387.75	325.42	271.01	223.46	174.70
135.0	809.82	715.72	626.60	526.41	453.90	373.08	314.41	287.84	287.84
180.0	943.78	849.12	752.26	641.55	555.75	476.04	405.19	327.69	285.62
225.0	792.66	705.92	619.96	520.10	447.37	380.50	306.88	256.01	202.04
270.0	908.91	795.43	704.65	617.75	517.00	443.38	361.46	303.89	290.05
315.0	765.26	673.71	588.80	509.70	422.57	360.35	304.17	254.85	202.04
360.0	678.80	595.38	500.34	431.65	352.33	296.20	247.10	194.46	160.53

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	132.24	109.05	86.63	72.85	61.55	52.53	44.12	39.08	35.26
45.0	179.57	148.02	115.74	94.99	77.99	64.43	51.92	44.62	39.25
90.0	143.64	112.37	92.94	77.44	62.05	52.48	44.89	38.03	34.04
135.0	174.25	134.95	110.38	90.95	76.17	61.94	53.08	46.00	39.47
180.0	285.62	171.37	140.10	113.92	89.01	74.06	59.95	51.31	44.34
225.0	166.39	136.78	112.81	89.01	74.17	62.44	53.14	44.17	39.19
270.0	290.05	166.28	129.08	105.61	86.79	69.41	58.95	50.70	43.95
315.0	167.06	138.33	109.38	91.11	76.44	61.72	52.42	45.50	39.36
360.0	132.24	109.05	86.63	72.85	61.55	52.53	44.12	39.08	35.26

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	31.72	29.50	27.51	25.63	24.36	23.08	22.09	21.31	20.65
45.0	35.20	31.33	29.01	26.96	24.85	23.53	22.42	21.37	20.65
90.0	31.05	28.67	26.29	24.63	23.30	22.20	21.09	20.37	19.76
135.0	35.65	32.66	29.56	27.46	25.24	23.80	22.58	21.59	20.59
180.0	39.08	35.26	31.61	29.34	27.29	25.57	23.75	22.58	21.53
225.0	35.43	32.44	29.39	27.34	25.13	23.75	22.47	21.20	20.43
270.0	37.92	34.43	31.55	28.73	26.79	25.19	23.58	22.42	21.53
315.0	35.76	32.94	30.50	27.95	26.29	24.91	23.69	22.42	21.53
360.0	31.72	29.50	27.51	25.63	24.36	23.08	22.09	21.31	20.65

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	20.09	19.54	19.26	19.15	19.15	19.21	19.10	19.04	18.88
45.0	20.09	19.54	19.21	18.99	18.93	18.99	19.04	18.93	18.93
90.0	19.15	18.82	18.54	18.43	18.49	18.60	18.49	18.54	18.49
135.0	19.93	19.37	18.99	18.71	18.49	18.49	18.49	18.54	18.60
180.0	20.54	19.87	19.32	18.88	18.65	18.49	18.49	18.65	18.71
225.0	19.76	19.15	18.82	18.60	18.43	18.49	18.54	18.60	18.54
270.0	20.59	20.04	19.54	19.15	18.82	18.71	18.71	18.76	18.71
315.0	20.87	20.09	19.60	19.21	19.04	19.04	19.10	18.93	18.88
360.0	20.09	19.54	19.26	19.15	19.15	19.21	19.10	19.04	18.88

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.32	17.44	16.83	16.05	15.06	14.50	13.95	13.45	13.01
45.0	18.76	18.21	17.38	16.72	16.05	15.06	14.56	14.06	13.40
90.0	18.16	17.27	16.72	16.05	15.11	14.56	14.06	13.45	13.06
135.0	18.60	18.38	17.77	17.16	16.33	15.61	14.95	14.23	13.73
180.0	18.65	18.71	18.43	17.82	16.99	16.44	15.67	14.78	14.28
225.0	18.43	18.10	17.38	16.77	16.16	15.11	14.50	14.00	13.51
270.0	18.65	18.49	18.10	17.44	16.66	15.94	15.17	14.50	13.89
315.0	18.88	18.32	17.60	16.99	16.33	15.28	14.67	14.17	13.51
360.0	18.32	17.44	16.83	16.05	15.06	14.50	13.95	13.45	13.01

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.73	12.45	12.18	11.90	11.68	11.40	11.13	10.85	10.63
45.0	13.06	12.79	12.51	12.23	11.90	11.68	11.46	11.18	10.90
90.0	12.68	12.45	12.18	11.90	11.68	11.35	11.13	10.90	10.68
135.0	13.34	13.01	12.62	12.34	12.07	11.79	11.57	11.35	11.02
180.0	13.78	13.23	12.95	12.62	12.29	12.07	11.85	11.57	11.29
225.0	13.01	12.68	12.45	12.18	11.90	11.62	11.40	11.13	10.90
270.0	13.40	13.01	12.73	12.40	12.12	11.90	11.62	11.35	11.07
315.0	13.12	12.84	12.51	12.23	12.01	11.68	11.40	11.18	10.90
360.0	12.73	12.45	12.18	11.90	11.68	11.40	11.13	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	10.35	10.19	9.96	9.74	9.63	9.41	9.30	9.13	9.19
45.0	10.68	10.41	10.07	9.91	9.69	9.58	9.41	9.35	9.13
90.0	10.41	10.19	9.91	9.74	9.58	9.47	9.30	9.24	9.13
135.0	10.79	10.46	10.24	10.02	9.80	9.63	9.52	9.35	9.24
180.0	11.07	10.79	10.52	10.24	10.07	9.85	9.69	9.52	9.35
225.0	10.68	10.41	10.24	10.02	9.80	9.63	9.47	9.35	9.24
270.0	10.79	10.63	10.35	10.19	9.96	9.80	9.58	9.41	9.30
315.0	10.63	10.41	10.24	10.02	9.85	9.63	9.52	9.35	9.13
360.0	10.35	10.19	9.96	9.74	9.63	9.41	9.30	9.13	9.19

Intensity data(cd)

C/γ(°)	90.0
0.0	9.13
45.0	9.13
90.0	9.13
135.0	9.19
180.0	9.35
225.0	9.08
270.0	9.08
315.0	9.13
360.0	9.13