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NATA

Client:
LumCAT: 4-2644-A2
Luminaire: BJB 47.319.2021
Report No: 20230306-B012
Ballast type:
Test No: 20230306-C012
LampCAT: CITIZEN CLU038
Lamp flux(lm): 2617.9
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V):
Current(A):
Power (W): 16.564
PF:
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 2348.79, Efficiency(%): 89.72% , Luminous Efficacy(lm/W): 141.80
Central intensity(cd): 3426.381, Maximum intensity(cd): 3426.381
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=50.2
[C90/270]Total=50.2
Field angle(10%Imax): [C0/180]Total=74.0
[C90/270]Total=74.0
Maximum s/h(1/2): C0_180=0.74 C90_270=0.74
Maximum s/h(1/4): C0_180=0.83 C90_270=0.83
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.72%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.435%

Equipment: 123
Temperature(°C): 345
Date: 2023/3/06
Humidity(%): 456%
Operator: 234

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3426.381	0.000	0	0.00%	0.00%
1.0	3422.795	3.277	3.277	0.13%	0.14%
2.0	3410.770	9.808	13.085	0.37%	0.56%
3.0	3390.529	16.266	29.352	0.62%	1.25%
4.0	3362.594	22.605	51.957	0.86%	2.21%
5.0	3328.012	28.783	80.739	1.10%	3.44%
6.0	3276.924	34.711	115.45	1.33%	4.92%
7.0	3222.623	40.343	155.793	1.54%	6.63%
8.0	3164.962	45.715	201.507	1.75%	8.58%
9.0	3096.993	50.750	252.257	1.94%	10.74%
10.0	3017.223	55.331	307.588	2.11%	13.10%
11.0	2943.652	59.561	367.15	2.28%	15.63%
12.0	2863.284	63.478	430.628	2.42%	18.33%
13.0	2764.692	66.790	497.418	2.55%	21.18%
14.0	2672.822	69.600	567.018	2.66%	24.14%
15.0	2573.931	72.030	639.047	2.75%	27.21%
16.0	2463.164	73.808	712.855	2.82%	30.35%
17.0	2353.443	75.008	787.862	2.87%	33.54%
18.0	2262.319	76.104	863.966	2.91%	36.78%
19.0	2176.201	77.221	941.187	2.95%	40.07%
20.0	2096.057	78.194	1019.382	2.99%	43.40%
21.0	2016.884	78.977	1098.358	3.02%	46.76%
22.0	1943.090	79.577	1177.936	3.04%	50.15%
23.0	1872.058	80.052	1257.988	3.06%	53.56%
24.0	1792.064	80.111	1338.099	3.06%	56.97%
25.0	1720.286	79.863	1417.962	3.05%	60.37%
26.0	1650.674	79.572	1497.534	3.04%	63.76%
27.0	1578.448	79.001	1576.535	3.02%	67.12%
28.0	1498.528	77.903	1654.437	2.98%	70.44%
29.0	1428.393	76.577	1731.014	2.93%	73.70%
30.0	1353.702	75.116	1806.13	2.87%	76.90%
31.0	1266.074	72.905	1879.035	2.78%	80.00%
32.0	1137.105	68.848	1947.883	2.63%	82.93%
33.0	999.561	62.947	2010.83	2.40%	85.61%
34.0	821.109	55.099	2065.929	2.10%	87.96%
35.0	620.975	44.786	2110.714	1.71%	89.86%
36.0	457.110	34.326	2145.041	1.31%	91.33%
37.0	340.569	26.016	2171.057	0.99%	92.43%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	250.133	19.717	2190.774	0.75%	93.27%
39.0	204.728	15.526	2206.299	0.59%	93.93%
40.0	169.653	13.057	2219.356	0.50%	94.49%
41.0	147.201	11.283	2230.639	0.43%	94.97%
42.0	126.855	9.957	2240.596	0.38%	95.39%
43.0	108.750	8.727	2249.324	0.33%	95.77%
44.0	95.186	7.697	2257.021	0.29%	96.09%
45.0	83.557	6.869	2263.89	0.26%	96.39%
46.0	71.435	6.061	2269.952	0.23%	96.64%
47.0	63.024	5.348	2275.299	0.20%	96.87%
48.0	55.735	4.801	2280.1	0.18%	97.08%
49.0	49.020	4.302	2284.402	0.16%	97.26%
50.0	42.828	3.829	2288.231	0.15%	97.42%
51.0	38.287	3.432	2291.663	0.13%	97.57%
52.0	34.238	3.112	2294.775	0.12%	97.70%
53.0	30.467	2.815	2297.59	0.11%	97.82%
54.0	27.568	2.558	2300.148	0.10%	97.93%
55.0	25.171	2.354	2302.502	0.09%	98.03%
56.0	23.065	2.180	2304.682	0.08%	98.12%
57.0	21.108	2.020	2306.702	0.08%	98.21%
58.0	19.614	1.883	2308.585	0.07%	98.29%
59.0	18.322	1.774	2310.358	0.07%	98.36%
60.0	17.246	1.680	2312.039	0.06%	98.44%
61.0	16.215	1.597	2313.635	0.06%	98.50%
62.0	15.401	1.523	2315.159	0.06%	98.57%
63.0	14.744	1.466	2316.625	0.06%	98.63%
64.0	14.132	1.417	2318.042	0.05%	98.69%
65.0	13.586	1.372	2319.414	0.05%	98.75%
66.0	13.198	1.336	2320.75	0.05%	98.81%
67.0	12.824	1.308	2322.058	0.05%	98.86%
68.0	12.466	1.281	2323.34	0.05%	98.92%
69.0	12.205	1.259	2324.598	0.05%	98.97%
70.0	11.943	1.240	2325.838	0.05%	99.02%
71.0	11.734	1.224	2327.062	0.05%	99.07%
72.0	11.547	1.211	2328.273	0.05%	99.13%
73.0	11.353	1.198	2329.47	0.05%	99.18%
74.0	11.196	1.185	2330.656	0.05%	99.23%
75.0	11.047	1.175	2331.831	0.04%	99.28%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.942	1.167	2332.998	0.04%	99.33%
77.0	10.823	1.160	2334.158	0.04%	99.38%
78.0	10.733	1.154	2335.312	0.04%	99.43%
79.0	10.621	1.147	2336.46	0.04%	99.47%
80.0	10.561	1.142	2337.602	0.04%	99.52%
81.0	10.487	1.138	2338.74	0.04%	99.57%
82.0	10.397	1.133	2339.872	0.04%	99.62%
83.0	10.337	1.127	2341	0.04%	99.67%
84.0	10.277	1.123	2342.123	0.04%	99.72%
85.0	10.225	1.119	2343.242	0.04%	99.76%
86.0	10.180	1.115	2344.357	0.04%	99.81%
87.0	10.136	1.112	2345.469	0.04%	99.86%
88.0	10.106	1.109	2346.578	0.04%	99.91%
89.0	10.091	1.107	2347.685	0.04%	99.95%
90.0	10.113	1.108	2348.792	0.04%	100.00%

Zonal flux distribution table

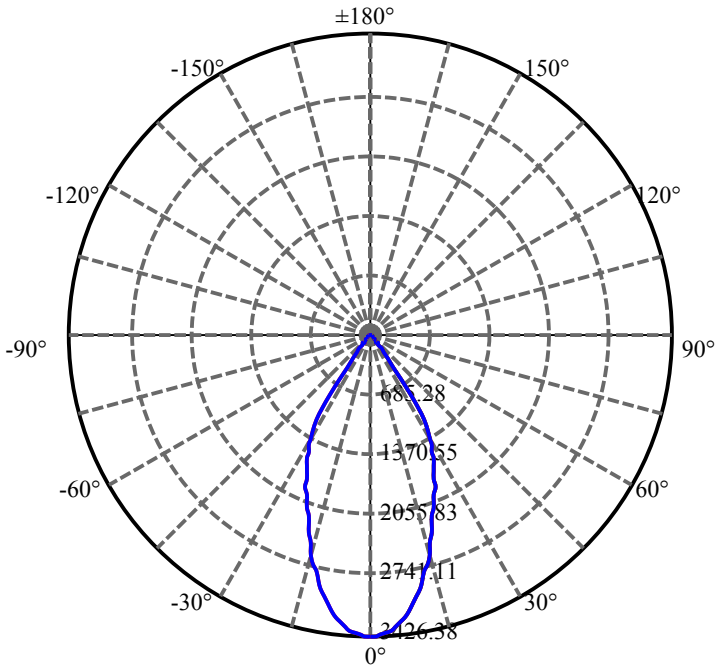
ZONAL LUMEN SUMMARY

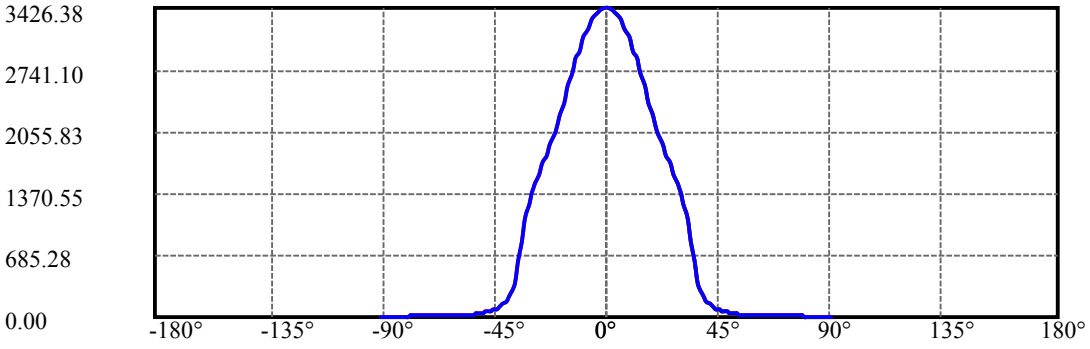
Zone	Lumens	%Lamp	%Fixt
0-30	1806.13	68.99%	76.90%
0-40	2219.36	84.77%	94.49%
0-60	2312.04	88.32%	98.44%
0-90	2347.68	89.68%	99.95%
0-120	2347.68	89.68%	99.95%
0-180	2348.79	89.72%	100.00%
60-90	35.65	1.36%	1.52%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-31.00	1879.03	71.78%	80.00%

ZONAL LUMEN SUMMARY

0-10	307.59
10-20	711.79
20-30	786.75
30-40	413.23
40-50	68.88
50-60	23.81
60-70	13.80
70-80	11.76
80-90	10.08
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:

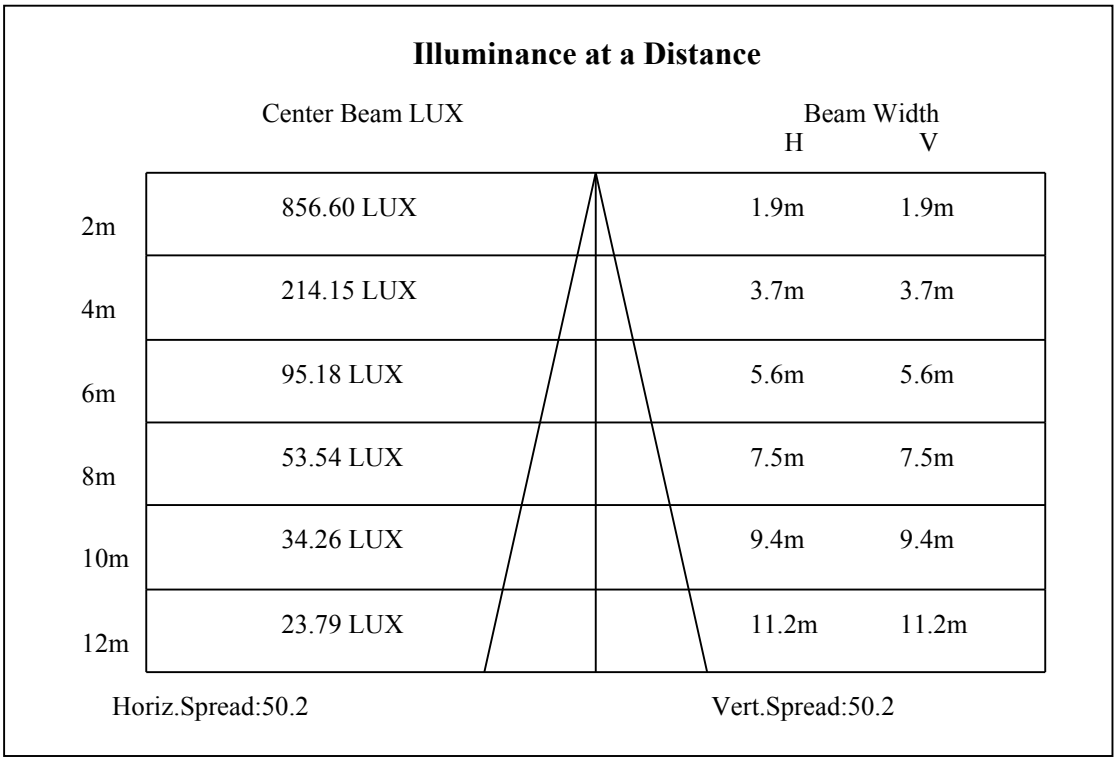
C90/C270:

Field angle(10%Imax):C0/180Left:37.0 Right:37.0
:C90/270Left:37.0 Right:37.0

Beam Angle(50%Imax):C0/180Left:25.1 Right:25.1
:C90/270Left:25.1 Right:25.1

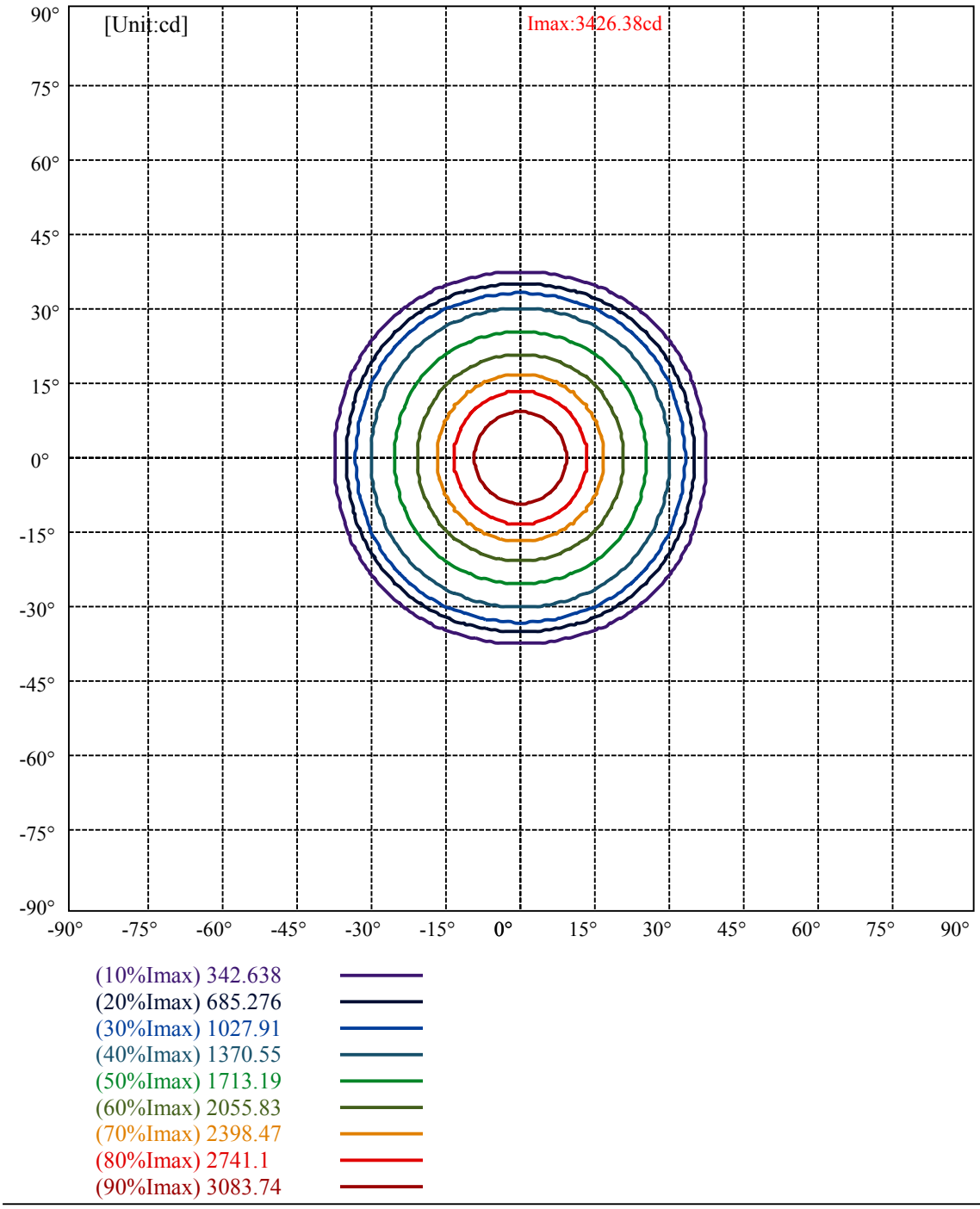
Equipment: 123 Date: 2023/3/06 Operator: 234
Temperature(°C): 345 Humidity(%): 456%

Lux distance Curve



Equipment: 123 Date: 2023/3/06 Operator: 234
Temperature(°C): 345 Humidity(%): 456%

ISO-Intensity(V-H)

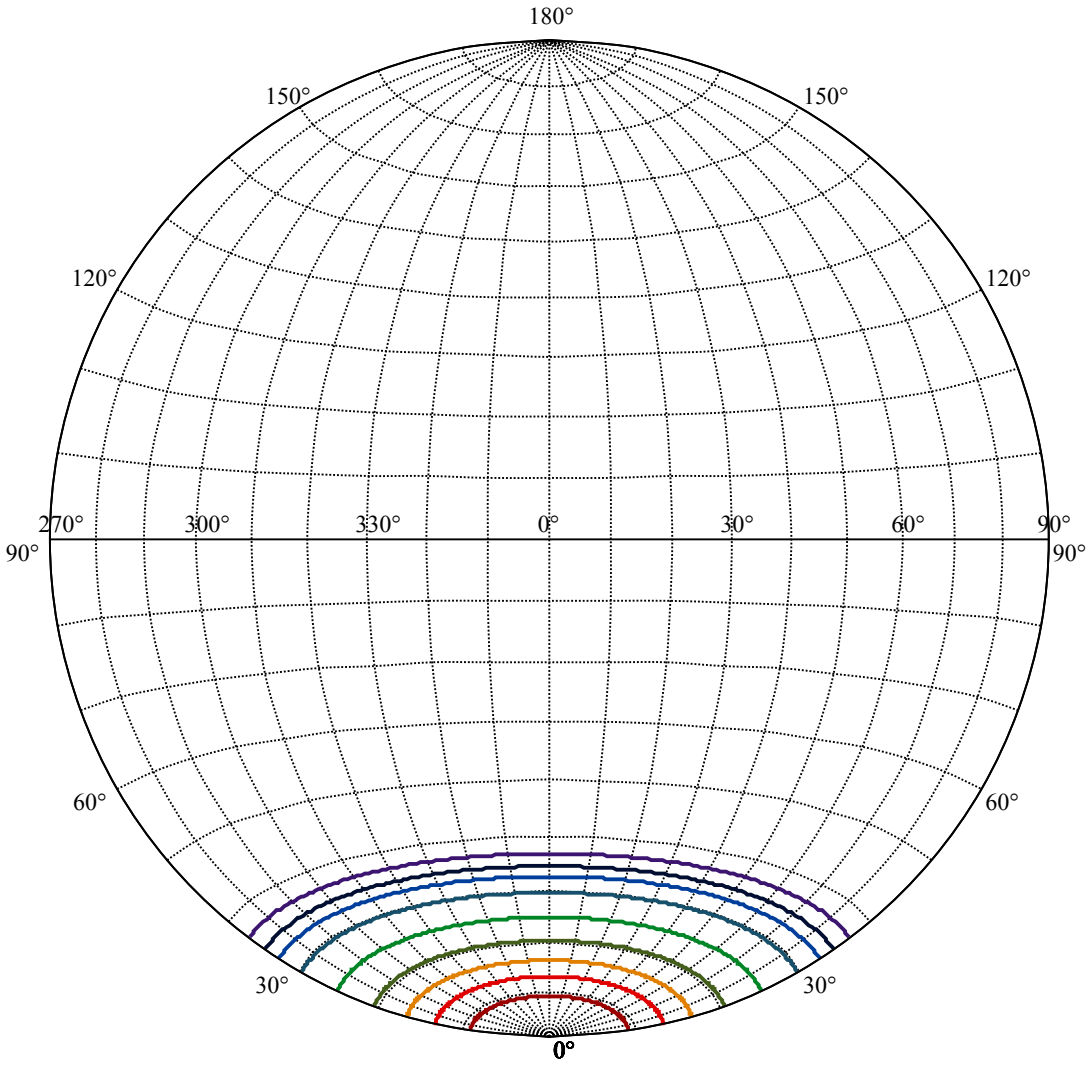


Equipment: 123
Temperature(°C): 345

Date: 2023/3/06
Humidity(%): 456%

Operator: 234

ISO candela diagram on circular web



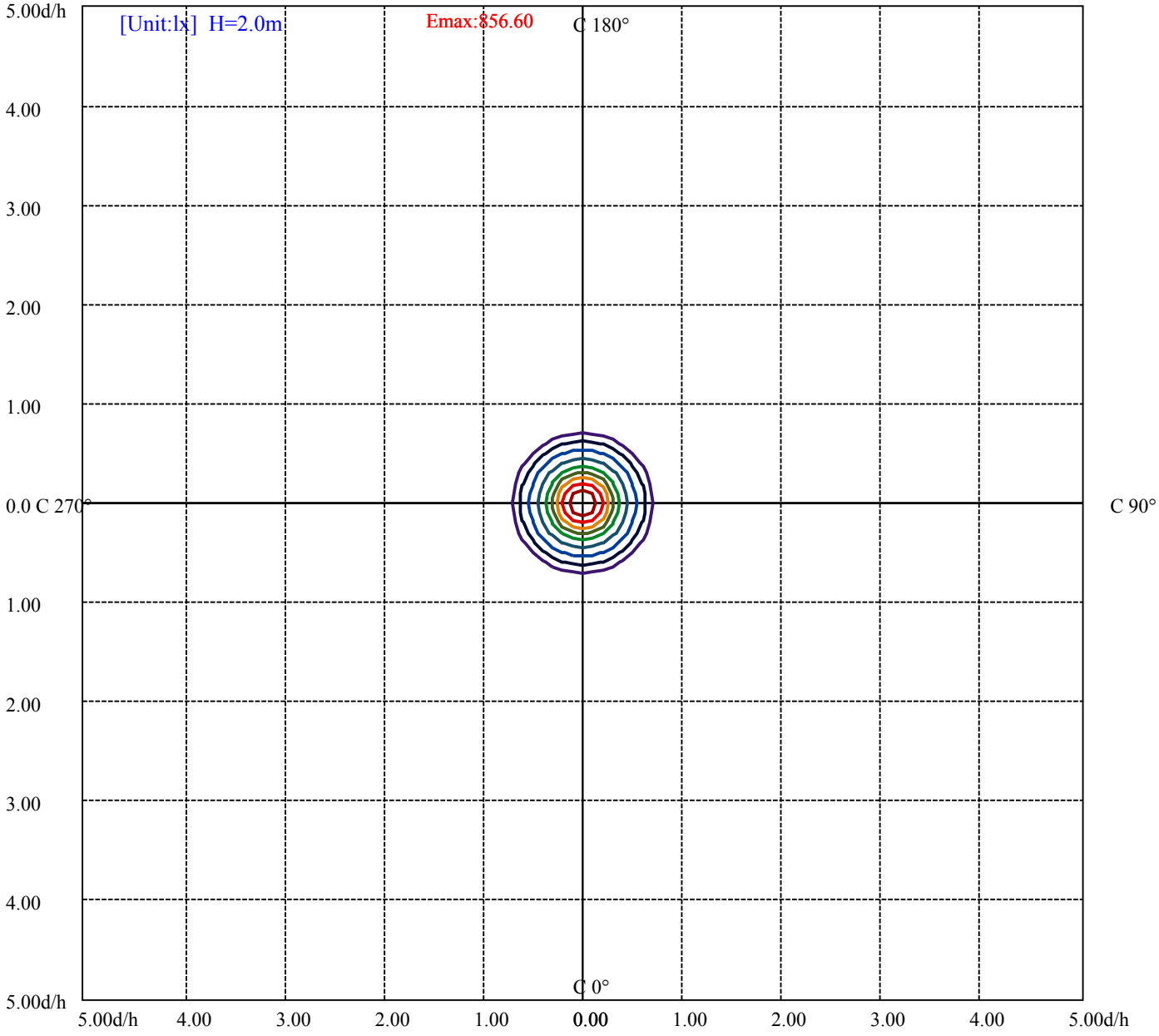
House [Unit:cd] Road

Imax:3426.38

(10%Imax) 342.638
(20%Imax) 685.276
(30%Imax) 1027.91
(40%Imax) 1370.55
(50%Imax) 1713.19
(60%Imax) 2055.83
(70%Imax) 2398.47
(80%Imax) 2741.1
(90%Imax) 3083.74

Equipment: 123 Date: 2023/3/06 Operator: 234
Temperature(°C): 345 Humidity(%): 456%

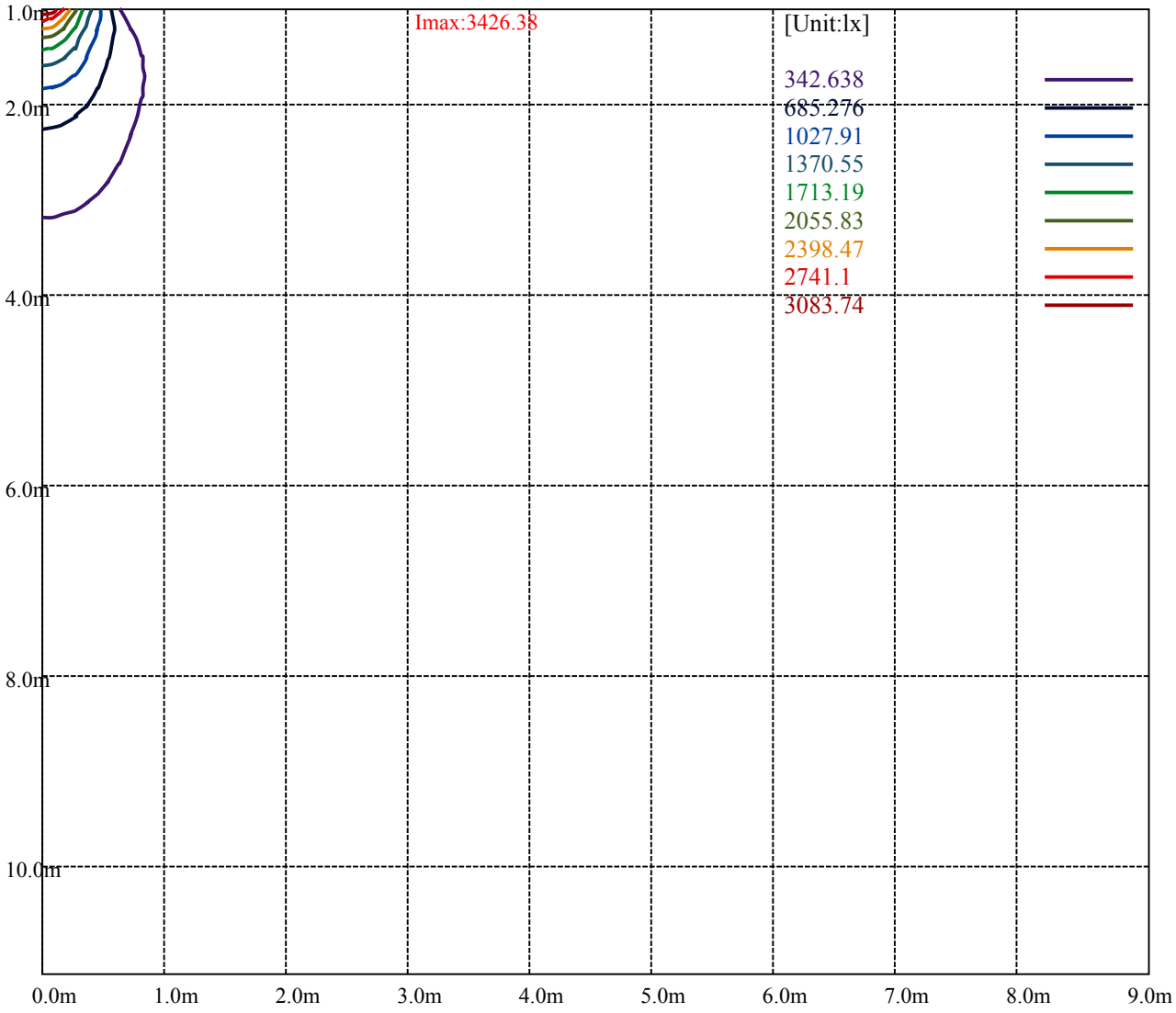
ISO illuminance diagram



(10%Emax) 85.6595
(20%Emax) 171.319
(30%Emax) 256.9775
(40%Emax) 342.6375
(50%Emax) 428.2975
(60%Emax) 513.9575
(70%Emax) 599.6175
(80%Emax) 685.275
(90%Emax) 770.935

Equipment: 123
Date: 2023/3/06
Operator: 234
Temperature(°C): 345
Humidity(%): 456%

Space ISO Lux diagram



Equipment: 123
Temperature(°C): 345

Date: 2023/3/06
Humidity(%): 456%

Operator: 234

Luminance Limitting Curve(no luminous side)

Luminance Table

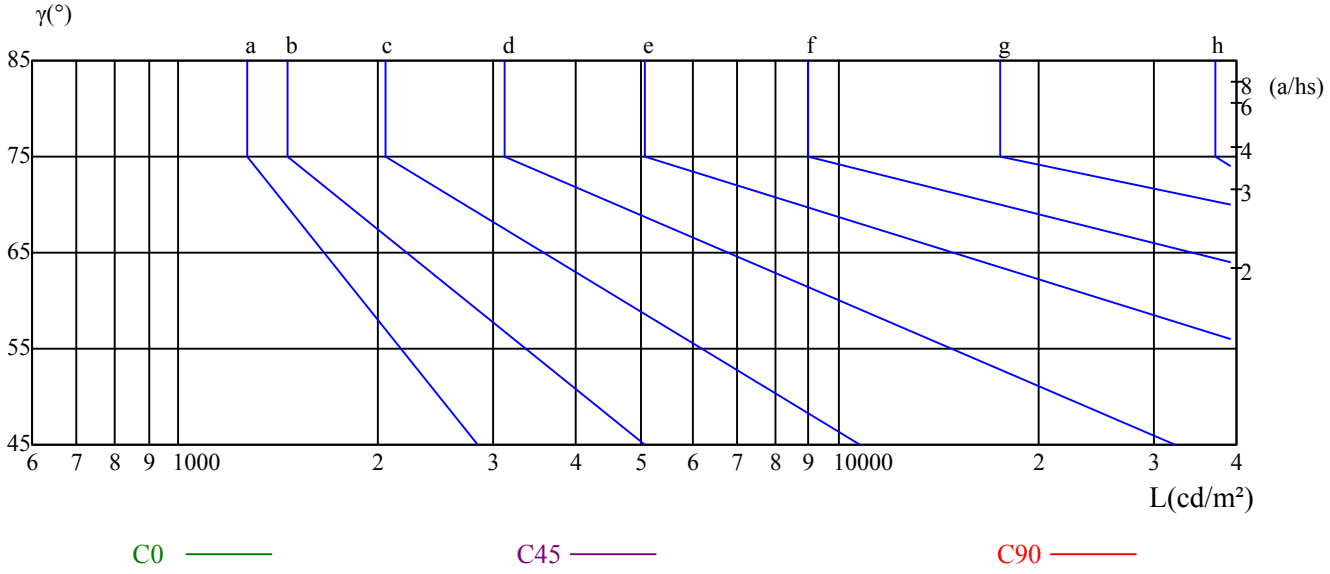
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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



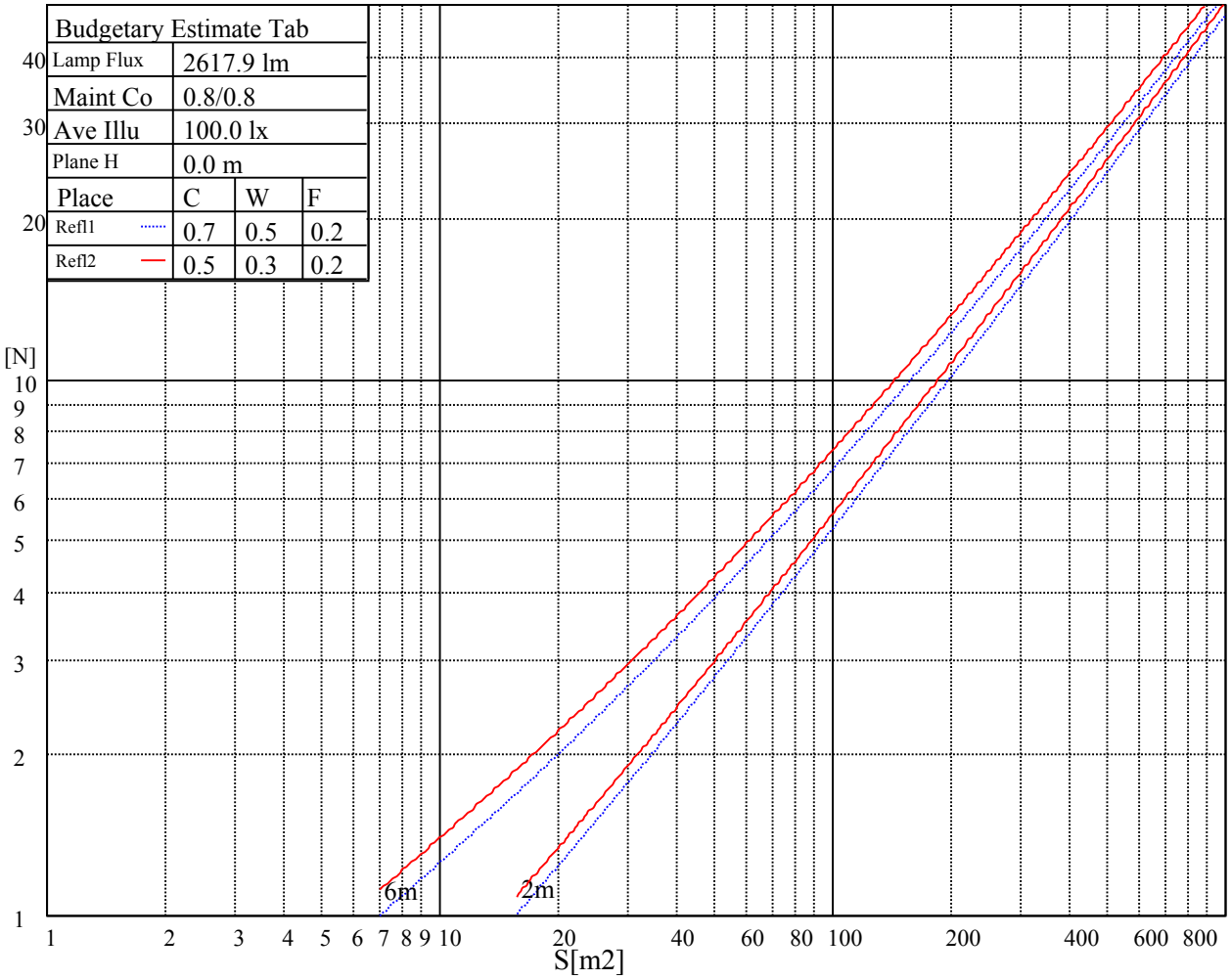
Equipment: 123 Date: 2023/3/06 Operator: 234

Temperature(°C): 345 Humidity(%): 456%

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

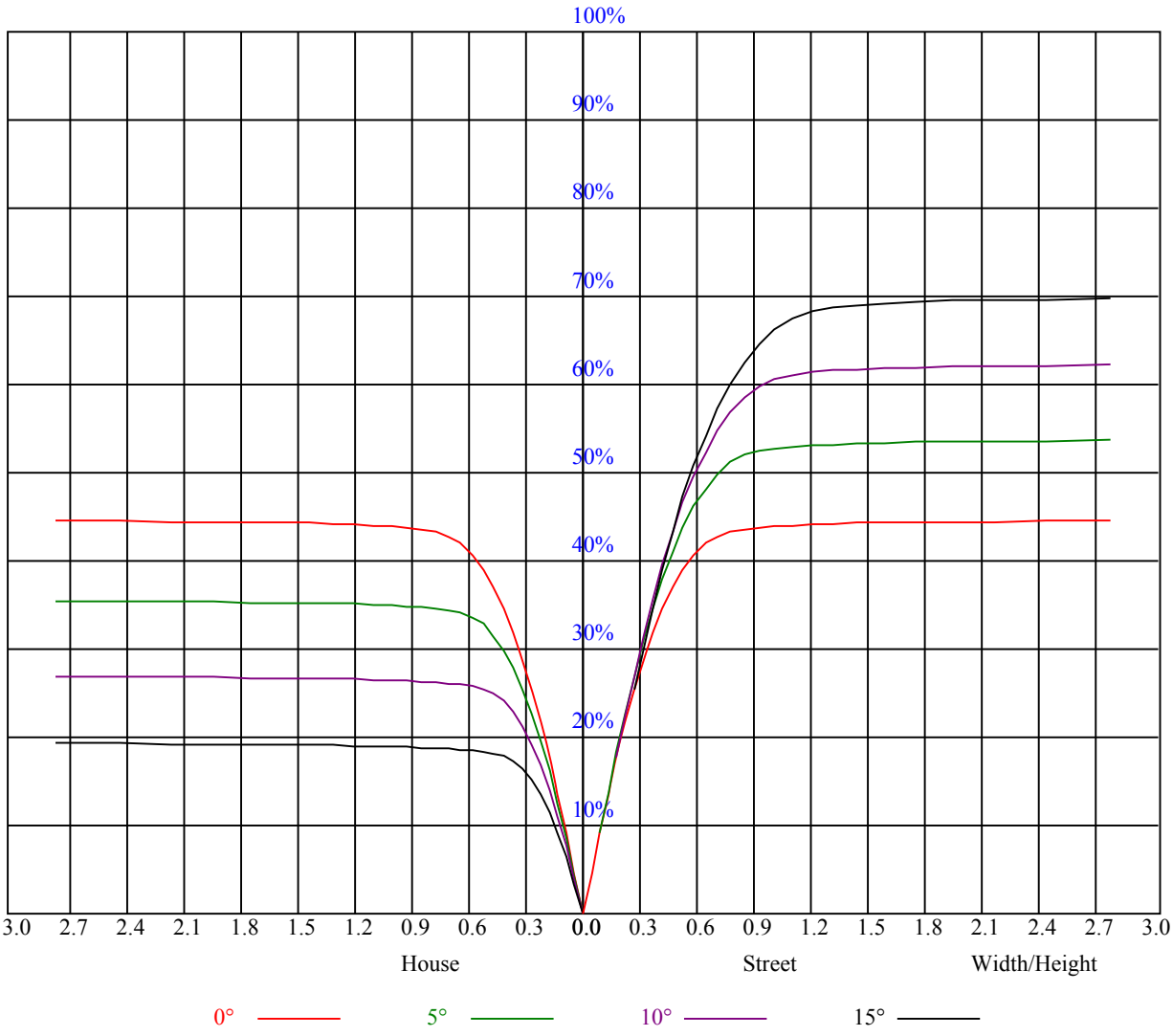


Equipment: 123 Date: 2023/3/06 Operator: 234
Temperature(°C): 345 Humidity(%): 456%

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	1.07	1.07	1.07	1.04	1.04	1.04	1.00	1.00	1.00	0.95	0.95	0.95	0.92	0.92	0.92	0.90
1	0.99	0.97	0.95	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84
2	0.93	0.89	0.86	0.91	0.88	0.85	0.88	0.86	0.83	0.86	0.83	0.82	0.83	0.81	0.80	0.78
3	0.87	0.82	0.79	0.86	0.82	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.73
4	0.81	0.77	0.73	0.80	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.69
5	0.77	0.72	0.68	0.76	0.71	0.68	0.74	0.70	0.67	0.73	0.69	0.66	0.71	0.68	0.66	0.65
6	0.72	0.67	0.63	0.72	0.67	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
7	0.68	0.63	0.60	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.57
8	0.65	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.54
9	0.61	0.56	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.52	0.59	0.55	0.52	0.51
10	0.58	0.53	0.50	0.58	0.53	0.50	0.57	0.53	0.50	0.57	0.53	0.50	0.56	0.52	0.50	0.48

Coefficient Utilization Curve



Equipment: 123
Temperature(°C): 345

Date: 2023/3/06
Humidity(%): 456%

Operator: 234

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	3426.38	3422.80	3410.77	3390.53	3362.59	3328.01	3276.92	3222.62	3164.96
45.0	3426.38	3422.80	3410.77	3390.53	3362.59	3328.01	3276.92	3222.62	3164.96
90.0	3426.38	3422.80	3410.77	3390.53	3362.59	3328.01	3276.92	3222.62	3164.96
135.0	3426.38	3422.80	3410.77	3390.53	3362.59	3328.01	3276.92	3222.62	3164.96
180.0	3426.38	3422.80	3410.77	3390.53	3362.59	3328.01	3276.92	3222.62	3164.96
225.0	3426.38	3422.80	3410.77	3390.53	3362.59	3328.01	3276.92	3222.62	3164.96
270.0	3426.38	3422.80	3410.77	3390.53	3362.59	3328.01	3276.92	3222.62	3164.96
315.0	3426.38	3422.80	3410.77	3390.53	3362.59	3328.01	3276.92	3222.62	3164.96
360.0	3426.38	3422.80	3410.77	3390.53	3362.59	3328.01	3276.92	3222.62	3164.96

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3096.99	3017.22	2943.65	2863.28	2764.69	2672.82	2573.93	2463.16	2353.44
45.0	3096.99	3017.22	2943.65	2863.28	2764.69	2672.82	2573.93	2463.16	2353.44
90.0	3096.99	3017.22	2943.65	2863.28	2764.69	2672.82	2573.93	2463.16	2353.44
135.0	3096.99	3017.22	2943.65	2863.28	2764.69	2672.82	2573.93	2463.16	2353.44
180.0	3096.99	3017.22	2943.65	2863.28	2764.69	2672.82	2573.93	2463.16	2353.44
225.0	3096.99	3017.22	2943.65	2863.28	2764.69	2672.82	2573.93	2463.16	2353.44
270.0	3096.99	3017.22	2943.65	2863.28	2764.69	2672.82	2573.93	2463.16	2353.44
315.0	3096.99	3017.22	2943.65	2863.28	2764.69	2672.82	2573.93	2463.16	2353.44
360.0	3096.99	3017.22	2943.65	2863.28	2764.69	2672.82	2573.93	2463.16	2353.44

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2262.32	2176.20	2096.06	2016.88	1943.09	1872.06	1792.06	1720.29	1650.67
45.0	2262.32	2176.20	2096.06	2016.88	1943.09	1872.06	1792.06	1720.29	1650.67
90.0	2262.32	2176.20	2096.06	2016.88	1943.09	1872.06	1792.06	1720.29	1650.67
135.0	2262.32	2176.20	2096.06	2016.88	1943.09	1872.06	1792.06	1720.29	1650.67
180.0	2262.32	2176.20	2096.06	2016.88	1943.09	1872.06	1792.06	1720.29	1650.67
225.0	2262.32	2176.20	2096.06	2016.88	1943.09	1872.06	1792.06	1720.29	1650.67
270.0	2262.32	2176.20	2096.06	2016.88	1943.09	1872.06	1792.06	1720.29	1650.67
315.0	2262.32	2176.20	2096.06	2016.88	1943.09	1872.06	1792.06	1720.29	1650.67
360.0	2262.32	2176.20	2096.06	2016.88	1943.09	1872.06	1792.06	1720.29	1650.67

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1578.45	1498.53	1428.39	1353.70	1266.07	1137.11	999.56	821.11	620.98
45.0	1578.45	1498.53	1428.39	1353.70	1266.07	1137.11	999.56	821.11	620.98
90.0	1578.45	1498.53	1428.39	1353.70	1266.07	1137.11	999.56	821.11	620.98
135.0	1578.45	1498.53	1428.39	1353.70	1266.07	1137.11	999.56	821.11	620.98
180.0	1578.45	1498.53	1428.39	1353.70	1266.07	1137.11	999.56	821.11	620.98
225.0	1578.45	1498.53	1428.39	1353.70	1266.07	1137.11	999.56	821.11	620.98
270.0	1578.45	1498.53	1428.39	1353.70	1266.07	1137.11	999.56	821.11	620.98
315.0	1578.45	1498.53	1428.39	1353.70	1266.07	1137.11	999.56	821.11	620.98
360.0	1578.45	1498.53	1428.39	1353.70	1266.07	1137.11	999.56	821.11	620.98

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	457.11	340.57	250.13	204.73	169.65	147.20	126.86	108.75	95.19
45.0	457.11	340.57	250.13	204.73	169.65	147.20	126.86	108.75	95.19
90.0	457.11	340.57	250.13	204.73	169.65	147.20	126.86	108.75	95.19
135.0	457.11	340.57	250.13	204.73	169.65	147.20	126.86	108.75	95.19
180.0	457.11	340.57	250.13	204.73	169.65	147.20	126.86	108.75	95.19
225.0	457.11	340.57	250.13	204.73	169.65	147.20	126.86	108.75	95.19
270.0	457.11	340.57	250.13	204.73	169.65	147.20	126.86	108.75	95.19
315.0	457.11	340.57	250.13	204.73	169.65	147.20	126.86	108.75	95.19
360.0	457.11	340.57	250.13	204.73	169.65	147.20	126.86	108.75	95.19

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	83.56	71.44	63.02	55.74	49.02	42.83	38.29	34.24	30.47
45.0	83.56	71.44	63.02	55.74	49.02	42.83	38.29	34.24	30.47
90.0	83.56	71.44	63.02	55.74	49.02	42.83	38.29	34.24	30.47
135.0	83.56	71.44	63.02	55.74	49.02	42.83	38.29	34.24	30.47
180.0	83.56	71.44	63.02	55.74	49.02	42.83	38.29	34.24	30.47
225.0	83.56	71.44	63.02	55.74	49.02	42.83	38.29	34.24	30.47
270.0	83.56	71.44	63.02	55.74	49.02	42.83	38.29	34.24	30.47
315.0	83.56	71.44	63.02	55.74	49.02	42.83	38.29	34.24	30.47
360.0	83.56	71.44	63.02	55.74	49.02	42.83	38.29	34.24	30.47

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.57	25.17	23.07	21.11	19.61	18.32	17.25	16.22	15.40
45.0	27.57	25.17	23.07	21.11	19.61	18.32	17.25	16.22	15.40
90.0	27.57	25.17	23.07	21.11	19.61	18.32	17.25	16.22	15.40
135.0	27.57	25.17	23.07	21.11	19.61	18.32	17.25	16.22	15.40
180.0	27.57	25.17	23.07	21.11	19.61	18.32	17.25	16.22	15.40
225.0	27.57	25.17	23.07	21.11	19.61	18.32	17.25	16.22	15.40
270.0	27.57	25.17	23.07	21.11	19.61	18.32	17.25	16.22	15.40
315.0	27.57	25.17	23.07	21.11	19.61	18.32	17.25	16.22	15.40
360.0	27.57	25.17	23.07	21.11	19.61	18.32	17.25	16.22	15.40

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.74	14.13	13.59	13.20	12.82	12.47	12.21	11.94	11.73
45.0	14.74	14.13	13.59	13.20	12.82	12.47	12.21	11.94	11.73
90.0	14.74	14.13	13.59	13.20	12.82	12.47	12.21	11.94	11.73
135.0	14.74	14.13	13.59	13.20	12.82	12.47	12.21	11.94	11.73
180.0	14.74	14.13	13.59	13.20	12.82	12.47	12.21	11.94	11.73
225.0	14.74	14.13	13.59	13.20	12.82	12.47	12.21	11.94	11.73
270.0	14.74	14.13	13.59	13.20	12.82	12.47	12.21	11.94	11.73
315.0	14.74	14.13	13.59	13.20	12.82	12.47	12.21	11.94	11.73
360.0	14.74	14.13	13.59	13.20	12.82	12.47	12.21	11.94	11.73

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.55	11.35	11.20	11.05	10.94	10.82	10.73	10.62	10.56
45.0	11.55	11.35	11.20	11.05	10.94	10.82	10.73	10.62	10.56
90.0	11.55	11.35	11.20	11.05	10.94	10.82	10.73	10.62	10.56
135.0	11.55	11.35	11.20	11.05	10.94	10.82	10.73	10.62	10.56
180.0	11.55	11.35	11.20	11.05	10.94	10.82	10.73	10.62	10.56
225.0	11.55	11.35	11.20	11.05	10.94	10.82	10.73	10.62	10.56
270.0	11.55	11.35	11.20	11.05	10.94	10.82	10.73	10.62	10.56
315.0	11.55	11.35	11.20	11.05	10.94	10.82	10.73	10.62	10.56
360.0	11.55	11.35	11.20	11.05	10.94	10.82	10.73	10.62	10.56

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.49	10.40	10.34	10.28	10.23	10.18	10.14	10.11	10.09
45.0	10.49	10.40	10.34	10.28	10.23	10.18	10.14	10.11	10.09
90.0	10.49	10.40	10.34	10.28	10.23	10.18	10.14	10.11	10.09
135.0	10.49	10.40	10.34	10.28	10.23	10.18	10.14	10.11	10.09
180.0	10.49	10.40	10.34	10.28	10.23	10.18	10.14	10.11	10.09
225.0	10.49	10.40	10.34	10.28	10.23	10.18	10.14	10.11	10.09
270.0	10.49	10.40	10.34	10.28	10.23	10.18	10.14	10.11	10.09
315.0	10.49	10.40	10.34	10.28	10.23	10.18	10.14	10.11	10.09
360.0	10.49	10.40	10.34	10.28	10.23	10.18	10.14	10.11	10.09

Intensity data(cd)

C/γ(°)	90.0
0.0	10.11
45.0	10.11
90.0	10.11
135.0	10.11
180.0	10.11
225.0	10.11
270.0	10.11
315.0	10.11
360.0	10.11