NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:
LumCAT: 3-2806-L
Luminaire: 92.70.412.00
Report No: 2024228-B011
Ballast type: AC

Test No: 2024228-C011	Voltage(V): 35.430
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.541
Lamp flux(lm): 2613.0	Power (W): 19.167
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2196.98, Efficiency(%): 84.08% , Luminous Efficacy(lm/W): 114.62
Central intensity(cd): 7493.426, Maximum intensity(cd): 7493.426
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.0
[C90/270]Total=24.0
Field angle(10%Imax): [C0/180]Total=59.0
[C90/270]Total=59.0
Maximum s/h(1/2): C0_180=0.40 C90_270=0.40
Maximum s/h(1/4): C0_180=0.46 C90_270=0.46
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.08%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.812%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7493.426	0.000	0	0.00%	0.00%
1.0	7464.384	7.157	7.157	0.27%	0.33%
2.0	7362.408	21.281	28.438	0.81%	1.29%
3.0	7164.090	34.743	63.18	1.33%	2.88%
4.0	6910.834	47.113	110.294	1.80%	5.02%
5.0	6587.059	58.067	168.361	2.22%	7.66%
6.0	6195.397	67.175	235.536	2.57%	10.72%
7.0	5785.300	74.364	309.9	2.85%	14.11%
8.0	5358.671	79.755	389.655	3.05%	17.74%
9.0	4888.297	83.046	472.702	3.18%	21.52%
10.0	4510.241	85.053	557.755	3.26%	25.39%
11.0	4120.555	86.239	643.994	3.30%	29.31%
12.0	3756.106	86.103	730.097	3.30%	33.23%
13.0	3442.352	85.428	815.525	3.27%	37.12%
14.0	3145.936	84.330	899.854	3.23%	40.96%
15.0	2867.588	82.556	982.411	3.16%	44.72%
16.0	2624.646	80.477	1062.887	3.08%	48.38%
17.0	2409.722	78.399	1141.286	3.00%	51.95%
18.0	2214.989	76.251	1217.538	2.92%	55.42%
19.0	2032.984	73.906	1291.444	2.83%	58.78%
20.0	1865.683	71.356	1362.8	2.73%	62.03%
21.0	1708.038	68.623	1431.423	2.63%	65.15%
22.0	1527.788	65.025	1496.448	2.49%	68.11%
23.0	1402.258	61.480	1557.928	2.35%	70.91%
24.0	1252.272	58.038	1615.966	2.22%	73.55%
25.0	1147.663	54.569	1670.535	2.09%	76.04%
26.0	1043.317	51.718	1722.253	1.98%	78.39%
27.0	953.939	48.863	1771.117	1.87%	80.62%
28.0	864.999	46.052	1817.168	1.76%	82.71%
29.0	788.781	43.268	1860.436	1.66%	84.68%
30.0	703.309	40.286	1900.722	1.54%	86.52%
31.0	610.565	36.563	1937.285	1.40%	88.18%
32.0	516.022	32.275	1969.561	1.24%	89.65%
33.0	423.761	27.686	1997.247	1.06%	90.91%
34.0	333.403	22.914	2020.161	0.88%	91.95%
35.0	262.876	18.518	2038.679	0.71%	92.79%
36.0	200.440	14.752	2053.431	0.56%	93.47%
37.0	155.977	11.624	2065.056	0.44%	94.00%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	106.014	8.745	2073.8	0.33%	94.39%
39.0	83.504	6.469	2080.269	0.25%	94.69%
40.0	74.477	5.510	2085.779	0.21%	94.94%
41.0	68.120	5.078	2090.857	0.19%	95.17%
42.0	61.675	4.716	2095.573	0.18%	95.38%
43.0	57.045	4.398	2099.97	0.17%	95.58%
44.0	52.392	4.130	2104.101	0.16%	95.77%
45.0	48.157	3.864	2107.965	0.15%	95.95%
46.0	44.565	3.626	2111.591	0.14%	96.11%
47.0	41.419	3.420	2115.011	0.13%	96.27%
48.0	38.544	3.233	2118.243	0.12%	96.42%
49.0	36.116	3.066	2121.309	0.12%	96.56%
50.0	33.914	2.920	2124.229	0.11%	96.69%
51.0	32.085	2.792	2127.022	0.11%	96.82%
52.0	30.432	2.683	2129.704	0.10%	96.94%
53.0	29.056	2.588	2132.292	0.10%	97.06%
54.0	27.886	2.510	2134.802	0.10%	97.17%
55.0	26.855	2.444	2137.245	0.09%	97.28%
56.0	26.050	2.391	2139.636	0.09%	97.39%
57.0	25.450	2.355	2141.99	0.09%	97.50%
58.0	24.909	2.329	2144.319	0.09%	97.60%
59.0	24.404	2.305	2146.625	0.09%	97.71%
60.0	23.863	2.280	2148.905	0.09%	97.81%
61.0	23.211	2.246	2151.151	0.09%	97.91%
62.0	22.399	2.198	2153.349	0.08%	98.01%
63.0	21.412	2.131	2155.48	0.08%	98.11%
64.0	20.498	2.056	2157.536	0.08%	98.20%
65.0	19.525	1.981	2159.517	0.08%	98.29%
66.0	18.603	1.902	2161.419	0.07%	98.38%
67.0	17.827	1.832	2163.251	0.07%	98.46%
68.0	17.323	1.781	2165.032	0.07%	98.55%
69.0	16.972	1.750	2166.781	0.07%	98.63%
70.0	16.759	1.732	2168.514	0.07%	98.70%
71.0	16.635	1.726	2170.24	0.07%	98.78%
72.0	16.598	1.728	2171.968	0.07%	98.86%
73.0	16.533	1.733	2173.7	0.07%	98.94%
74.0	16.313	1.727	2175.427	0.07%	99.02%
75.0	16.021	1.708	2177.135	0.07%	99.10%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.845	1.692	2178.827	0.06%	99.17%
77.0	15.355	1.663	2180.49	0.06%	99.25%
78.0	14.938	1.622	2182.112	0.06%	99.32%
79.0	14.214	1.566	2183.678	0.06%	99.39%
80.0	13.497	1.494	2185.172	0.06%	99.46%
81.0	12.575	1.410	2186.582	0.05%	99.53%
82.0	11.946	1.330	2187.912	0.05%	99.59%
83.0	11.383	1.268	2189.18	0.05%	99.64%
84.0	10.797	1.208	2190.388	0.05%	99.70%
85.0	10.461	1.160	2191.549	0.04%	99.75%
86.0	10.205	1.130	2192.678	0.04%	99.80%
87.0	9.963	1.104	2193.782	0.04%	99.85%
88.0	9.766	1.081	2194.863	0.04%	99.90%
89.0	9.634	1.063	2195.926	0.04%	99.95%
90.0	9.576	1.053	2196.979	0.04%	100.00%

Zonal flux distribution table

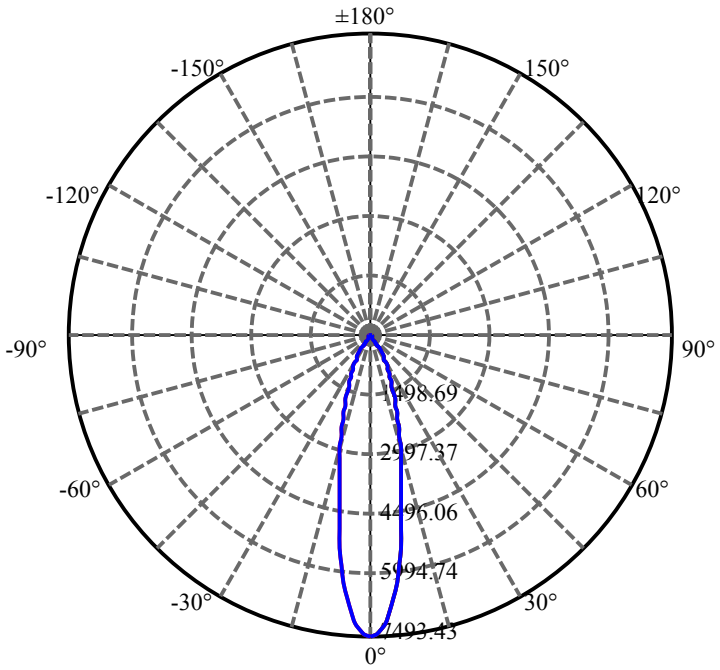
ZONAL LUMEN SUMMARY

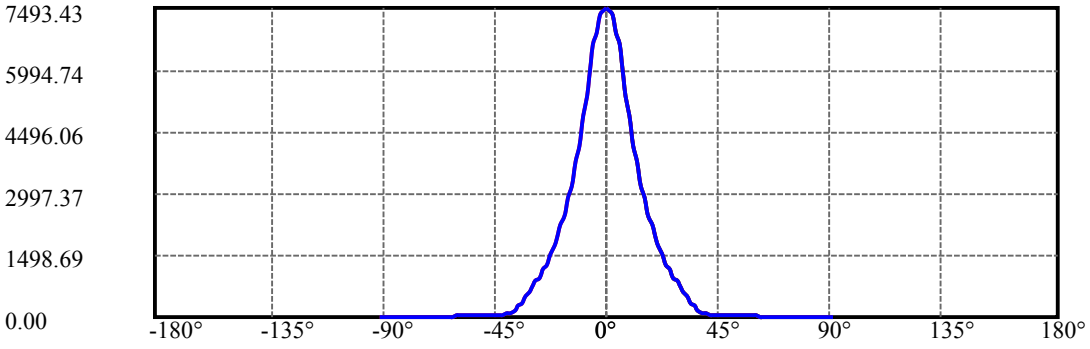
Zone	Lumens	%Lamp	%Fixt
0-30	1900.72	72.74%	86.52%
0-40	2085.78	79.82%	94.94%
0-60	2148.90	82.24%	97.81%
0-90	2195.93	84.04%	99.95%
0-120	2195.93	84.04%	99.95%
0-180	2196.98	84.08%	100.00%
60-90	47.02	1.80%	2.14%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.72	1757.58	67.26%	80.00%

ZONAL LUMEN SUMMARY

0-10	557.75
10-20	805.05
20-30	537.92
30-40	185.06
40-50	38.45
50-60	24.68
60-70	19.61
70-80	16.66
80-90	10.75
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):

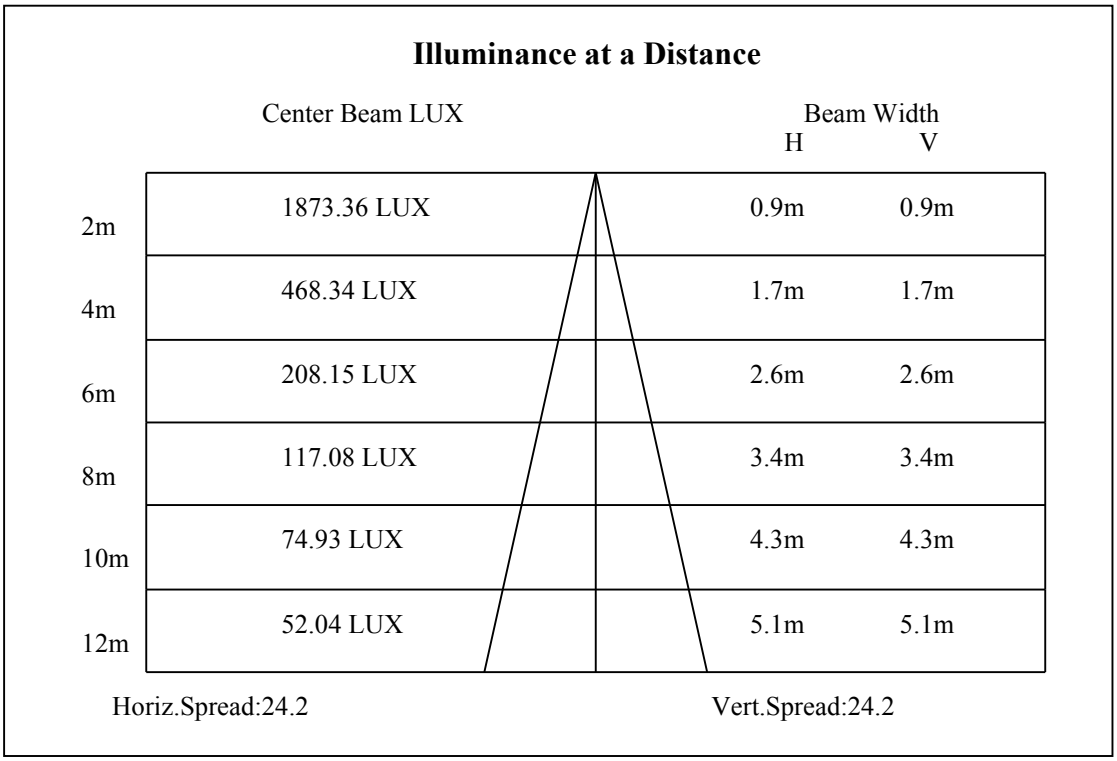
C0/C180:

C90/C270:

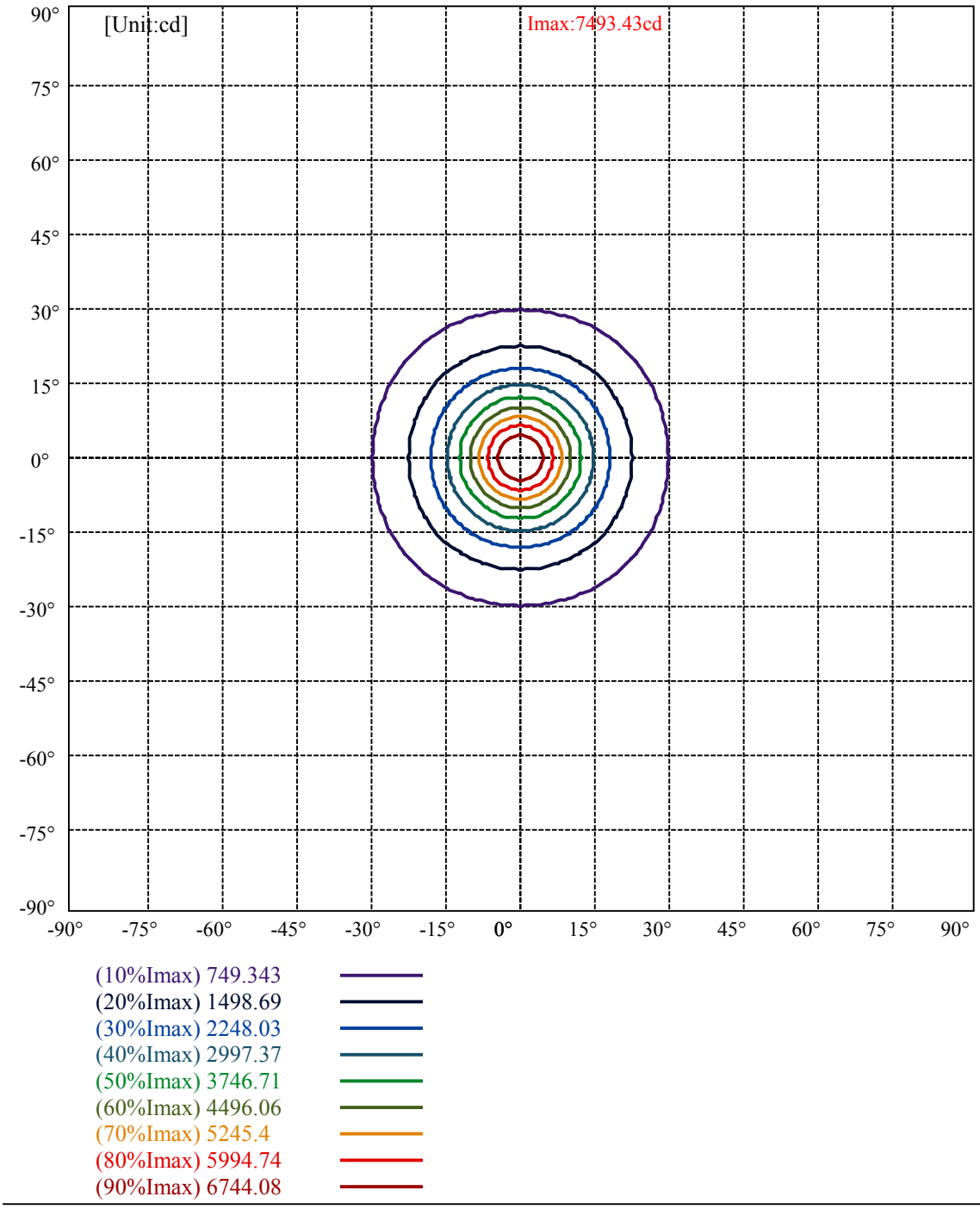
Field angle(10%Imax):C0/180Left:29.5 Right:29.5
:C90/270Left:29.5 Right:29.5

Beam Angle(50%Imax):C0/180Left:12.0 Right:12.0
:C90/270Left:12.0 Right:12.0

Lux distance Curve



ISO-Intensity(V-H)

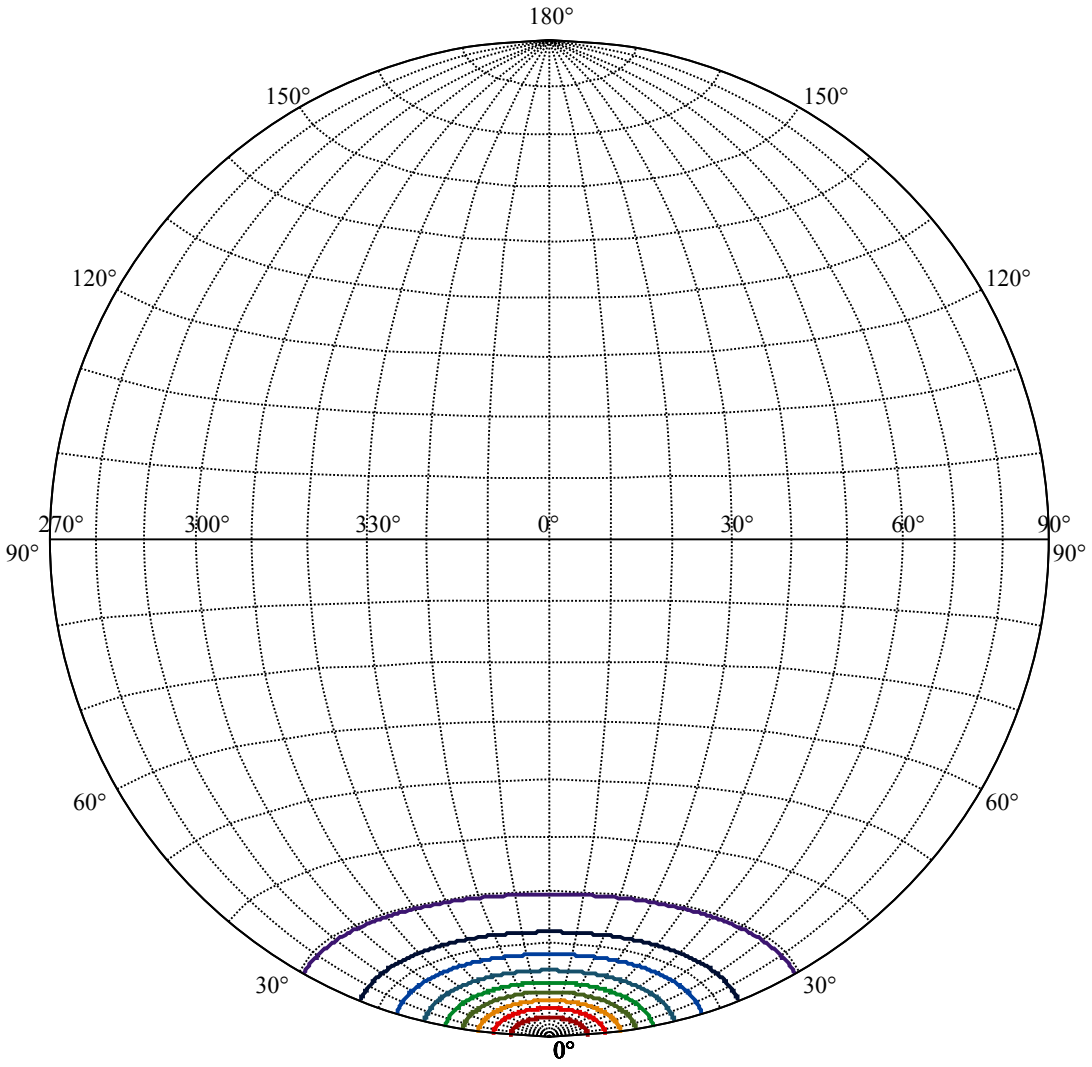


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/2/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



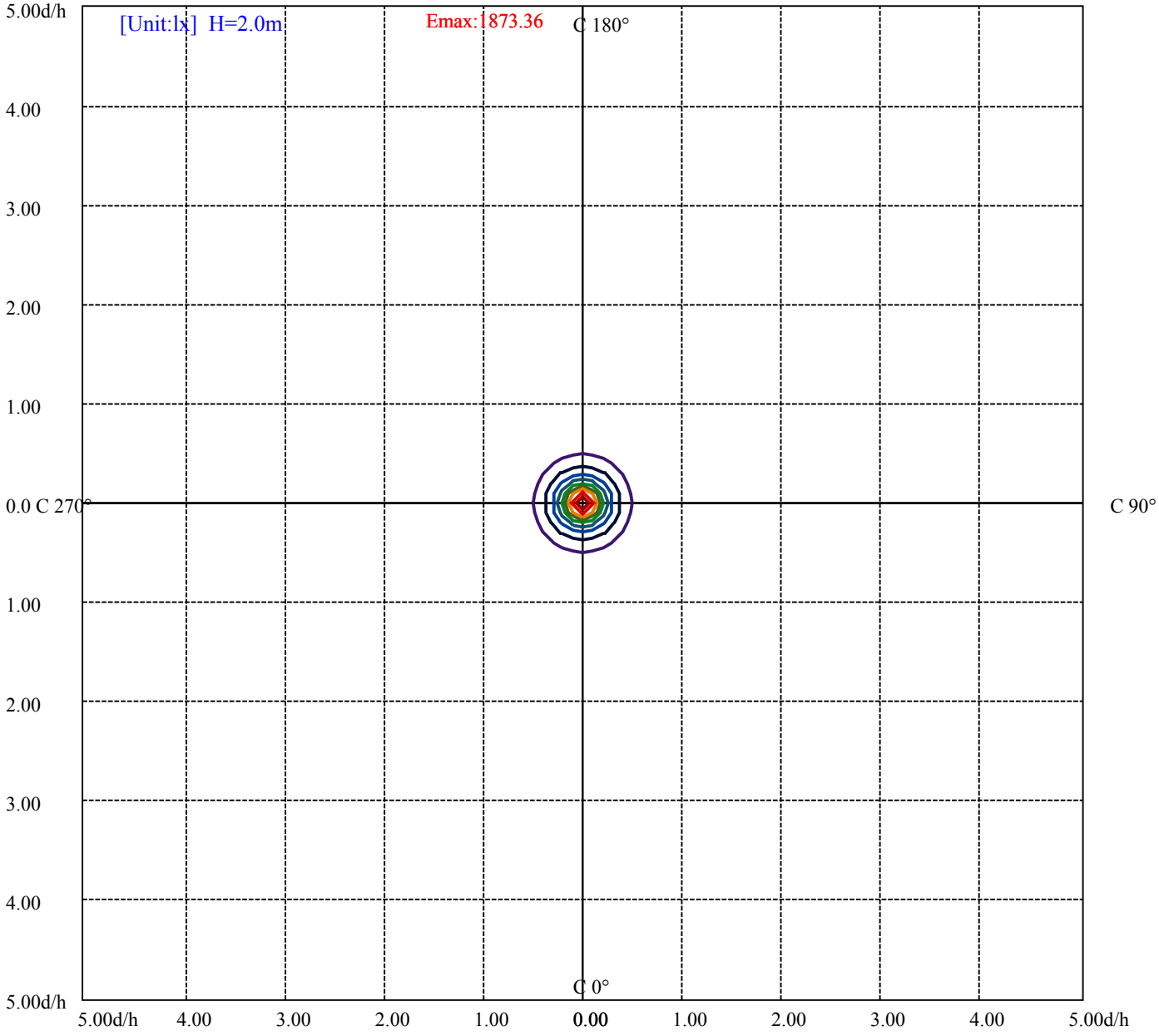
Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/2/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 3-2806-L

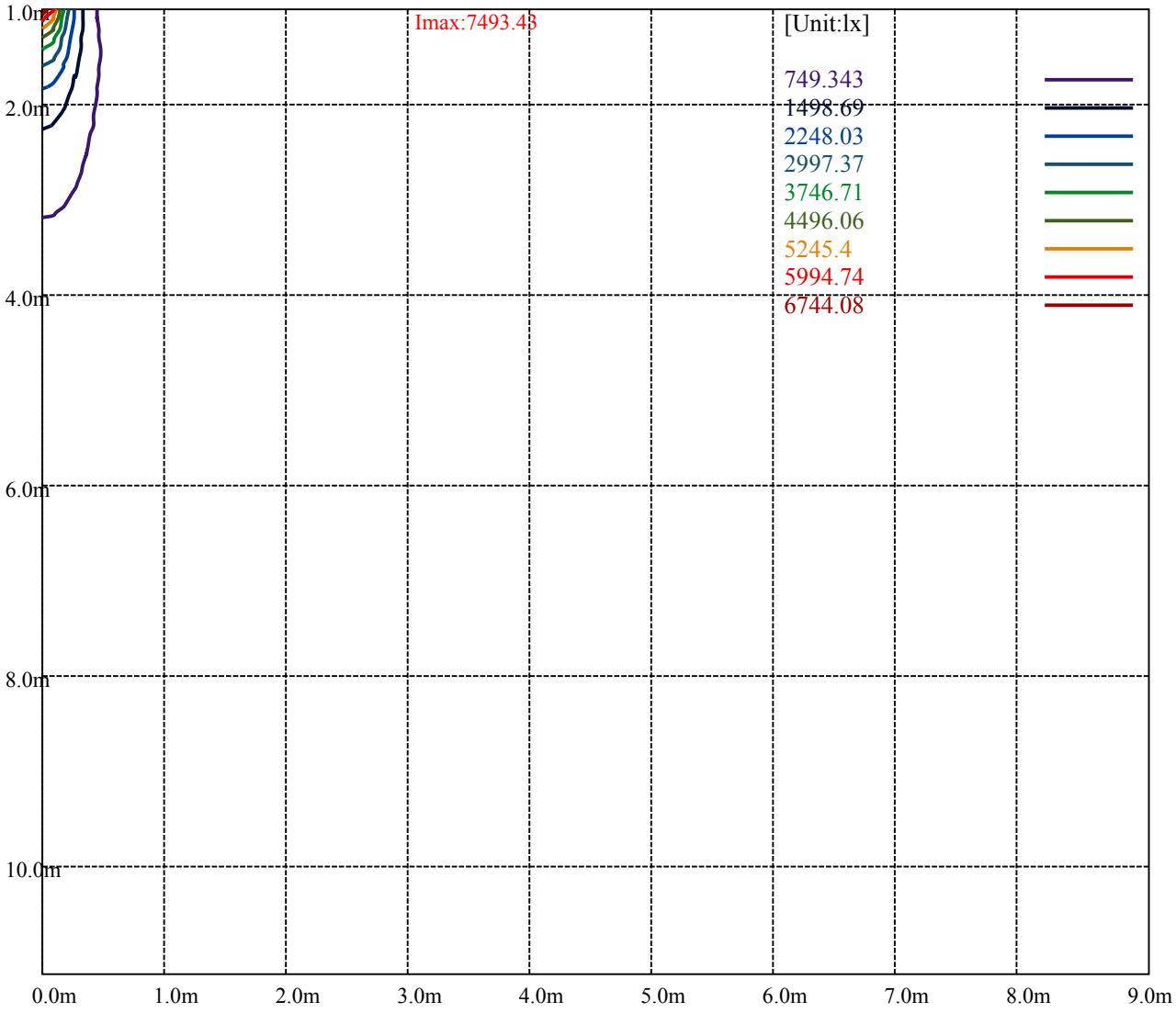
ISO illuminance diagram



(10%Emax) 187.3355
(20%Emax) 374.67
(30%Emax) 562.0075
(40%Emax) 749.3425
(50%Emax) 936.6775
(60%Emax) 1124.012
(70%Emax) 1311.35
(80%Emax) 1498.685
(90%Emax) 1686.02

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2024/2/28
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/2/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

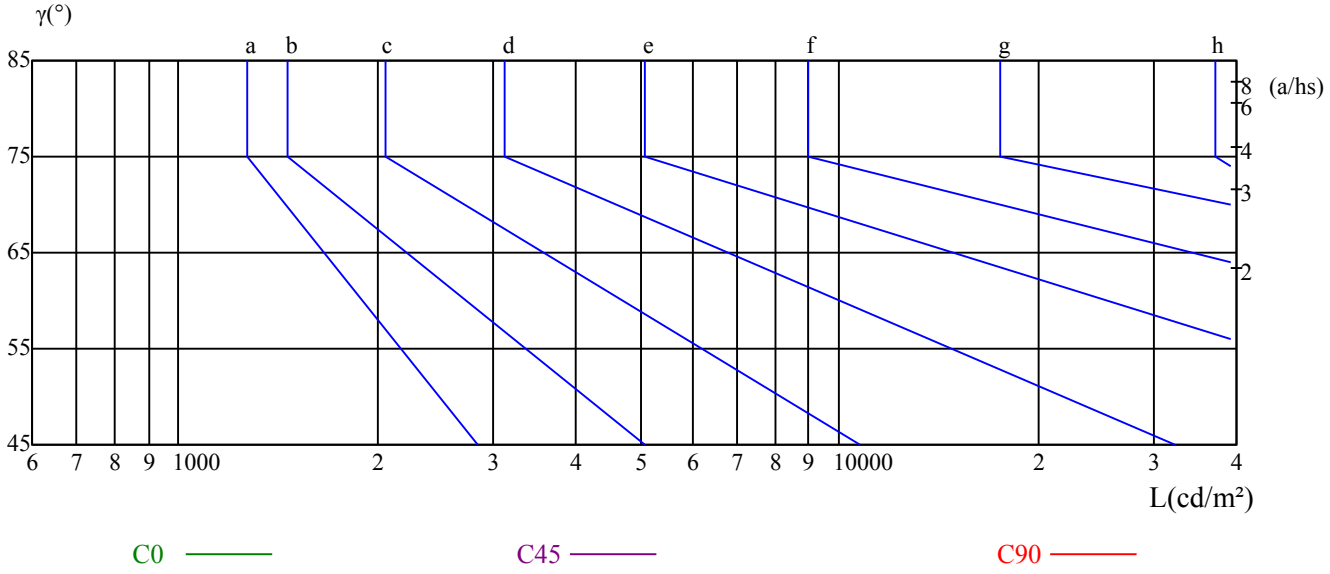
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

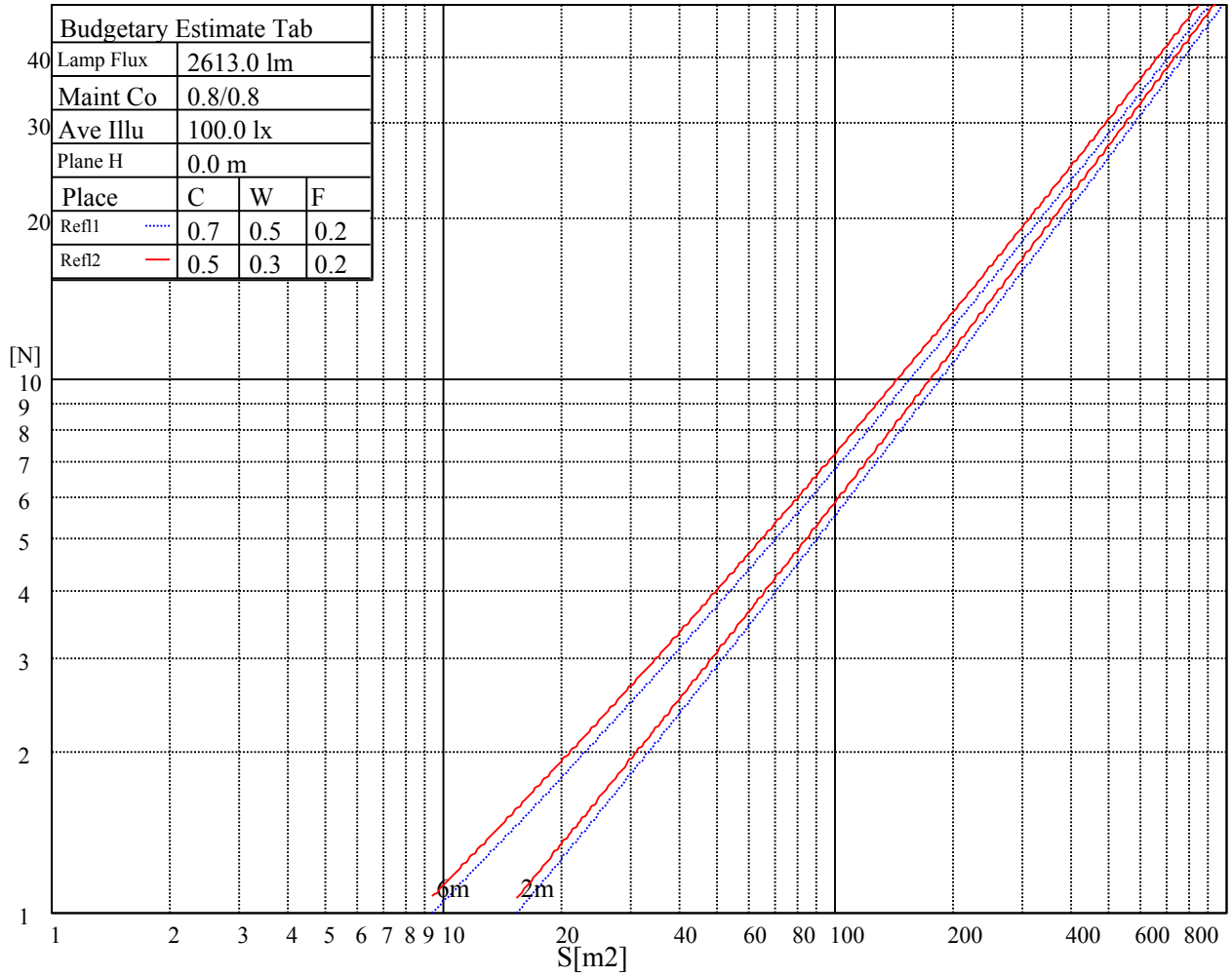
Luminance Limitting Curve



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

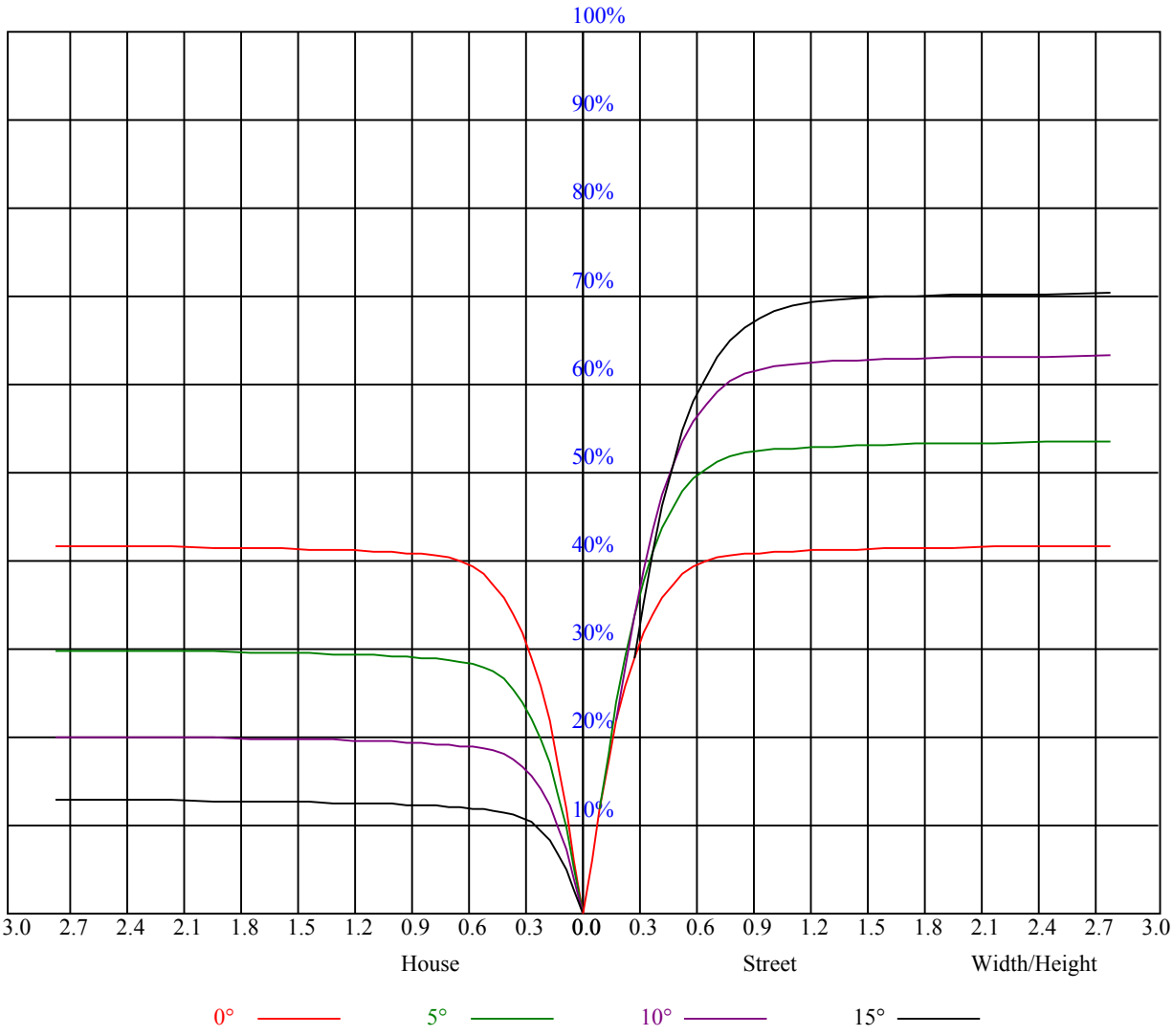


Equipment: GMS1980 Date: 2024/2/28 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

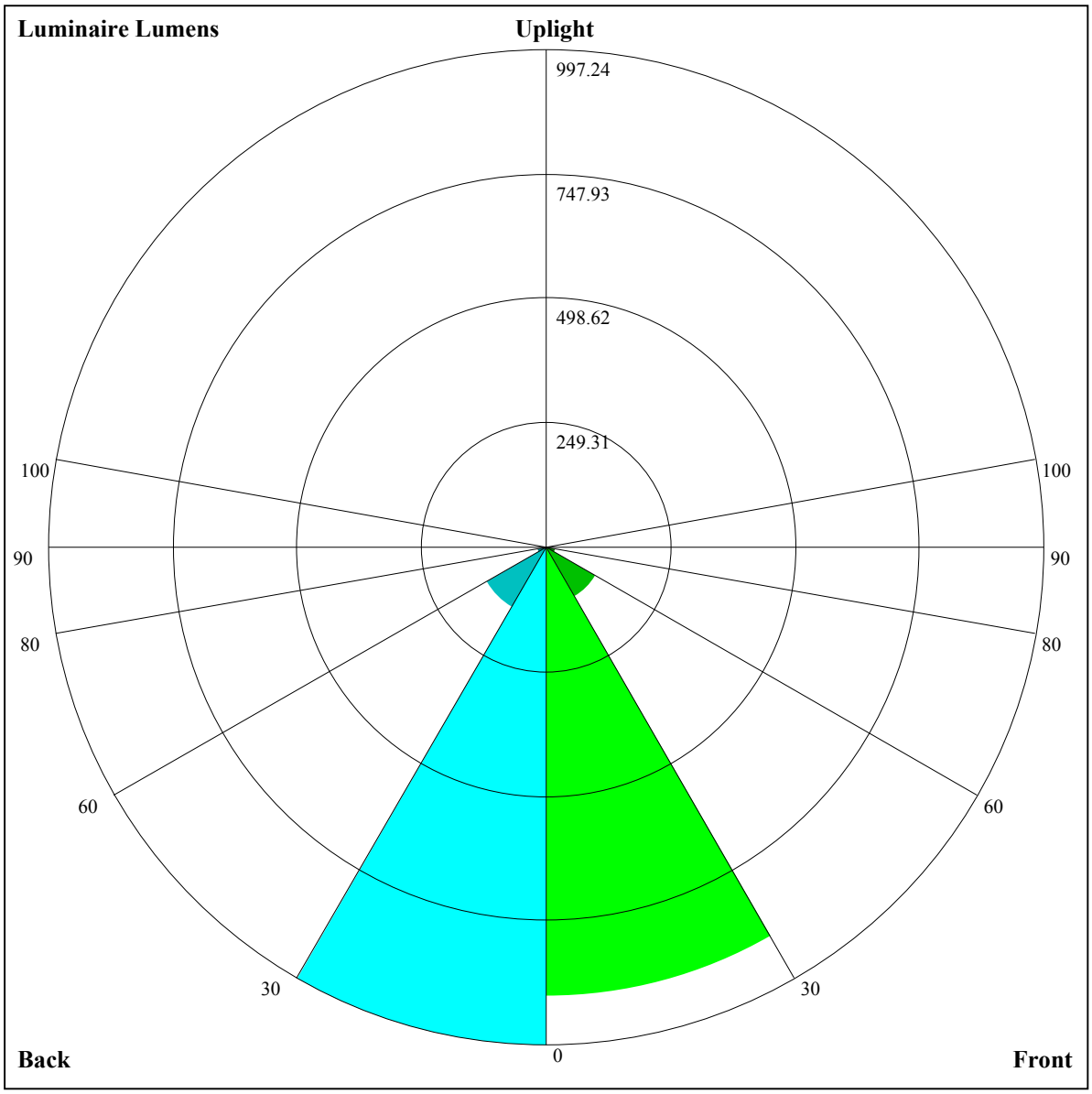
Utilization factor table for indoor luminaire

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	1.00	1.00	1.00	0.98	0.98	0.98	0.93	0.93	0.93	0.89	0.89	0.89	0.86	0.86	0.86	0.84
1	0.94	0.92	0.90	0.92	0.90	0.89	0.89	0.87	0.86	0.85	0.84	0.83	0.83	0.82	0.81	0.80
2	0.88	0.85	0.83	0.87	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.78	0.79	0.78	0.77	0.75
3	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.78	0.75	0.78	0.76	0.74	0.77	0.75	0.73	0.72
4	0.79	0.75	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.70	0.74	0.71	0.70	0.68
5	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.72	0.69	0.67	0.71	0.69	0.67	0.65
6	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.69	0.66	0.64	0.68	0.66	0.64	0.63
7	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.60
8	0.67	0.62	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.58
9	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.56
10	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.60	0.57	0.55	0.54

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/2/28	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=901.45,FM=113.64,FH=18.17,FVH=5.88
BL=997.24,BM=137.46,BH=18.51,BVH=6.04
UL=0,UH=0

BUG Rating:B2-U0-G0

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	7393.21	7220.56	6975.36	6570.38	6183.55	5784.42	5273.52	4877.32	4494.59
45.0	7527.22	7467.53	7338.78	7075.43	6770.53	6418.22	6022.02	5506.44	5099.71
90.0	7500.30	7395.55	7223.49	6891.08	6542.29	6061.23	5653.33	5239.58	4828.75
135.0	7552.97	7545.36	7486.26	7318.30	7084.79	6775.21	6411.20	5918.44	5504.68
180.0	7393.21	7515.52	7547.71	7517.27	7441.19	7249.83	7011.05	6697.37	6331.61
225.0	7527.22	7531.90	7471.04	7353.41	7156.78	6885.23	6455.68	6073.52	5659.18
270.0	7500.30	7543.61	7510.25	7430.66	7229.34	6981.21	6668.11	6310.54	5807.83
315.0	7552.97	7495.04	7346.39	7156.19	6878.21	6541.12	6068.26	5659.18	5143.02
360.0	7393.21	7220.56	6975.36	6570.38	6183.55	5784.42	5273.52	4877.32	4494.59

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4050.99	3717.99	3410.75	3128.09	2876.44	2597.29	2391.87	2211.62	2009.72
45.0	4611.63	4241.77	3901.75	3499.12	3201.82	2932.62	2690.92	2420.55	2233.86
90.0	4348.28	3994.80	3666.49	3359.84	3016.89	2772.27	2548.71	2343.30	2124.43
135.0	4993.20	4608.71	4241.18	3817.48	3503.22	3212.36	2946.08	2648.20	2439.28
180.0	5817.78	5403.44	4903.66	4509.80	4141.70	3727.94	3428.89	3145.64	2884.05
225.0	5145.94	4745.65	4283.91	3943.30	3629.04	3334.09	3001.68	2763.49	2545.20
270.0	5394.66	5001.39	4619.24	4167.45	3837.38	3527.21	3167.30	2909.80	2681.56
315.0	4743.89	4368.18	3937.45	3623.77	3332.33	3063.71	2765.25	2554.57	2359.69
360.0	4050.99	3717.99	3410.75	3128.09	2876.44	2597.29	2391.87	2211.62	2009.72

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1863.41	1722.96	1559.68	1335.54	1164.71	1131.36	1016.48	936.71	859.87
45.0	2071.76	1923.69	1746.37	1611.77	1485.94	1321.50	1192.16	1066.92	953.98
90.0	1972.27	1792.60	1657.42	1529.84	1136.51	1136.51	1104.61	1000.03	909.15
135.0	2256.10	2084.63	1891.51	1751.64	1616.45	1457.27	1328.52	1165.24	1038.83
180.0	2599.63	2398.31	2209.87	2050.10	1871.02	1738.76	1602.99	1440.30	1312.13
225.0	2348.57	2123.84	1966.41	1821.28	1680.82	1517.55	1158.45	1158.45	1095.42
270.0	2424.06	2236.20	2059.47	1869.27	1732.91	1602.40	1469.56	1299.26	1172.85
315.0	2184.12	1981.63	1834.74	1694.87	1533.93	1312.72	1145.40	1114.39	1004.30
360.0	1863.41	1722.96	1559.68	1335.54	1164.71	1131.36	1016.48	936.71	859.87

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	793.27	716.84	629.76	513.77	415.63	321.87	239.06	155.67	114.94
45.0	889.02	808.84	733.35	649.66	562.46	446.59	357.63	295.01	295.01
90.0	850.51	780.57	699.75	594.71	505.40	416.27	308.65	231.92	162.34
135.0	949.29	871.46	811.18	738.03	656.68	546.07	454.19	364.65	300.86
180.0	1184.55	1036.49	946.37	868.53	803.57	726.32	639.12	521.49	422.59
225.0	992.01	905.52	845.83	772.20	667.62	576.86	481.87	388.30	280.38
270.0	1049.95	958.07	875.56	805.33	702.33	617.47	525.59	411.47	323.69
315.0	922.90	842.20	768.46	684.25	570.83	476.72	383.97	298.70	203.19
360.0	793.27	716.84	629.76	513.77	415.63	321.87	239.06	155.67	114.94

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	95.68	84.62	77.13	69.88	64.49	59.63	54.19	49.98	46.35
45.0	125.18	99.25	88.90	80.47	72.68	67.18	60.75	56.36	52.09
90.0	105.57	88.84	80.35	71.57	65.90	60.69	55.25	51.44	47.46
135.0	300.86	121.08	91.24	80.12	71.34	65.55	59.11	54.60	50.91
180.0	327.78	304.96	206.00	108.44	87.32	78.89	70.29	64.73	58.52
225.0	202.49	140.10	103.35	86.15	78.13	71.51	64.78	59.99	54.66
270.0	303.21	303.21	111.49	92.06	83.39	75.85	68.47	63.44	58.64
315.0	142.74	105.75	89.66	79.36	72.57	65.66	60.57	55.83	50.50
360.0	95.68	84.62	77.13	69.88	64.49	59.63	54.19	49.98	46.35

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	43.31	39.68	37.28	35.17	33.24	31.37	29.96	28.79	27.51
45.0	47.34	44.24	41.26	38.68	35.82	33.77	32.19	30.78	29.20
90.0	44.07	40.61	37.92	35.64	33.65	31.54	30.08	28.50	27.51
135.0	46.17	42.84	40.09	37.63	34.82	32.77	31.02	29.55	28.09
180.0	54.19	50.21	45.41	42.25	39.62	37.04	34.35	32.48	30.84
225.0	50.39	46.58	43.48	40.03	37.63	35.52	33.59	31.54	30.20
270.0	53.26	49.10	45.53	41.79	39.03	36.17	34.12	32.30	30.84
315.0	46.53	43.25	40.38	37.16	35.11	33.12	31.37	29.50	28.27
360.0	43.31	39.68	37.28	35.17	33.24	31.37	29.96	28.79	27.51

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.57	25.93	25.40	24.81	24.35	23.82	22.71	21.77	21.01
45.0	28.21	27.33	26.34	25.98	25.28	24.70	24.29	23.47	22.12
90.0	26.63	25.63	25.28	24.93	24.40	23.94	23.47	22.36	21.48
135.0	27.04	26.28	25.34	24.76	24.58	23.99	23.47	23.29	22.36
180.0	29.38	27.92	26.92	26.16	25.16	24.76	24.46	23.76	23.35
225.0	28.97	27.74	26.80	25.98	25.57	25.05	24.46	23.99	23.23
270.0	29.14	28.03	27.04	26.16	25.57	25.16	24.58	24.17	23.76
315.0	27.15	25.98	25.28	24.81	24.35	23.82	23.47	22.88	21.89
360.0	26.57	25.93	25.40	24.81	24.35	23.82	22.71	21.77	21.01

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.55	18.73	18.08	17.15	16.44	16.21	16.44	16.85	16.91
45.0	21.36	20.37	19.25	18.43	17.62	16.80	16.33	16.15	16.50
90.0	20.48	19.37	18.32	17.67	16.97	17.21	17.62	17.62	17.32
135.0	21.24	20.54	19.66	18.43	17.67	16.91	16.04	15.27	14.81
180.0	22.77	21.77	21.01	20.19	18.84	18.02	17.38	16.50	15.80
225.0	22.12	21.54	20.25	19.20	18.55	17.85	17.15	17.09	17.15
270.0	22.77	21.54	20.72	19.61	19.08	19.02	19.08	19.37	19.90
315.0	21.01	20.13	18.90	18.14	17.44	16.56	15.74	15.22	14.69
360.0	19.55	18.73	18.08	17.15	16.44	16.21	16.44	16.85	16.91

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.85	16.80	16.74	16.50	16.39	16.15	15.63	14.22	12.52
45.0	17.03	17.03	16.74	16.68	16.80	16.21	15.45	14.63	13.46
90.0	16.97	16.85	16.74	16.27	15.80	15.22	14.86	13.87	13.11
135.0	14.34	13.93	13.58	13.17	12.93	12.64	12.29	12.00	11.70
180.0	15.74	15.92	15.80	15.45	15.33	15.04	14.75	14.46	14.22
225.0	17.56	17.91	17.62	17.38	17.32	16.62	16.09	15.27	14.34
270.0	20.01	19.84	19.72	19.43	19.20	18.38	18.08	17.21	16.80
315.0	14.28	13.99	13.58	13.28	12.99	12.58	12.35	12.06	11.82
360.0	16.85	16.80	16.74	16.50	16.39	16.15	15.63	14.22	12.52

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.24	10.89	10.65	10.36	10.07	9.83	9.89	9.66	9.66
45.0	11.88	11.47	10.89	10.53	10.30	10.01	9.77	9.71	9.60
90.0	11.76	10.89	10.59	10.42	10.07	9.89	9.66	9.60	9.60
135.0	11.41	11.18	10.89	10.65	10.42	10.07	9.89	9.71	9.54
180.0	13.93	13.40	12.70	11.59	10.89	10.65	10.36	10.07	9.89
225.0	13.28	12.17	11.65	11.06	10.71	10.42	10.07	9.83	9.66
270.0	15.57	14.34	12.70	11.06	10.71	10.53	10.18	9.83	9.66
315.0	11.53	11.24	11.00	10.71	10.53	10.24	9.89	9.71	9.48
360.0	11.24	10.89	10.65	10.36	10.07	9.83	9.89	9.66	9.66

Intensity data(cd)

C/γ(°)	90.0
0.0	9.66
45.0	9.54
90.0	9.54
135.0	9.60
180.0	9.71
225.0	9.48
270.0	9.48
315.0	9.60
360.0	9.66