NATA LIGHTING CO.,LTD.
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Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client: NT
LumCAT: 2-2870-L
Luminaire: 92.70.412.00
Report No: 20250110-B009
Ballast type: AC
Test No: 20250110-C009
LampCAT: CITIZEN CLU038
Lamp flux(lm): 2595.0
Number of Lamps: 1
Length(mm): 75
Phm Type: C

Voltage(V): 34.460
Current(A): 0.449
Power (W): 15.472
PF: 0.000
Width(mm): 75
Height(mm): 43

Photometric Results

Lumens(lm): 2546.88, Efficiency(%): 98.15% , Luminous Efficacy(lm/W): 164.61
Central intensity(cd): 9351.370, Maximum intensity(cd): 9351.370
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.8
[C90/270]Total=24.8
Field angle(10%Imax): [C0/180]Total=57.8
[C90/270]Total=57.8
Maximum s/h(1/2): C0_180=0.42 C90_270=0.42
Maximum s/h(1/4): C0_180=0.42 C90_270=0.42
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 98.15%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.589%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9351.369	0.000	0	0.00%	0.00%
1.0	9312.159	8.930	8.93	0.34%	0.35%
2.0	9194.163	26.562	35.492	1.02%	1.39%
3.0	9020.278	43.563	79.055	1.68%	3.10%
4.0	8760.365	59.517	138.573	2.29%	5.44%
5.0	8425.689	73.934	212.506	2.85%	8.34%
6.0	8052.828	86.599	299.105	3.34%	11.74%
7.0	7615.226	97.251	396.356	3.75%	15.56%
8.0	7096.789	105.291	501.648	4.06%	19.70%
9.0	6556.115	110.649	612.297	4.26%	24.04%
10.0	5998.249	113.612	725.909	4.38%	28.50%
11.0	5430.361	114.195	840.105	4.40%	32.99%
12.0	4898.538	112.910	953.014	4.35%	37.42%
13.0	4292.172	109.071	1062.085	4.20%	41.70%
14.0	3786.025	103.400	1165.485	3.98%	45.76%
15.0	3328.599	97.673	1263.158	3.76%	49.60%
16.0	2923.404	91.609	1354.767	3.53%	53.19%
17.0	2550.396	85.242	1440.009	3.28%	56.54%
18.0	2233.570	78.877	1518.886	3.04%	59.64%
19.0	1981.045	73.326	1592.212	2.83%	62.52%
20.0	1774.168	68.731	1660.943	2.65%	65.21%
21.0	1575.374	64.318	1725.261	2.48%	67.74%
22.0	1410.802	60.008	1785.269	2.31%	70.10%
23.0	1311.767	57.127	1842.396	2.20%	72.34%
24.0	1233.552	55.650	1898.046	2.14%	74.52%
25.0	1138.541	53.936	1951.982	2.08%	76.64%
26.0	1081.884	52.413	2004.395	2.02%	78.70%
27.0	1026.353	51.578	2055.974	1.99%	80.73%
28.0	979.732	50.790	2106.764	1.96%	82.72%
29.0	931.642	50.007	2156.771	1.93%	84.68%
30.0	871.159	48.675	2205.446	1.88%	86.59%
31.0	803.360	46.599	2252.045	1.80%	88.42%
32.0	722.087	43.702	2295.748	1.68%	90.14%
33.0	629.797	39.827	2335.575	1.53%	91.70%
34.0	529.117	35.072	2370.647	1.35%	93.08%
35.0	436.988	30.004	2400.65	1.16%	94.26%
36.0	344.522	24.883	2425.534	0.96%	95.24%
37.0	264.573	19.865	2445.399	0.77%	96.02%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	216.072	16.043	2461.442	0.62%	96.65%
39.0	131.910	11.878	2473.32	0.46%	97.11%
40.0	66.028	6.903	2480.223	0.27%	97.38%
41.0	40.337	3.788	2484.011	0.15%	97.53%
42.0	30.490	2.573	2486.584	0.10%	97.63%
43.0	26.160	2.098	2488.683	0.08%	97.72%
44.0	23.109	1.860	2490.542	0.07%	97.79%
45.0	20.673	1.683	2492.225	0.06%	97.85%
46.0	18.588	1.535	2493.76	0.06%	97.91%
47.0	17.315	1.428	2495.188	0.06%	97.97%
48.0	16.452	1.365	2496.553	0.05%	98.02%
49.0	15.647	1.318	2497.871	0.05%	98.08%
50.0	14.982	1.277	2499.148	0.05%	98.13%
51.0	14.360	1.241	2500.39	0.05%	98.17%
52.0	13.855	1.211	2501.601	0.05%	98.22%
53.0	13.511	1.190	2502.791	0.05%	98.27%
54.0	13.219	1.178	2503.969	0.05%	98.32%
55.0	12.999	1.170	2505.14	0.05%	98.36%
56.0	12.758	1.164	2506.303	0.04%	98.41%
57.0	12.612	1.160	2507.463	0.04%	98.45%
58.0	12.458	1.159	2508.623	0.04%	98.50%
59.0	12.326	1.159	2509.781	0.04%	98.54%
60.0	12.180	1.158	2510.939	0.04%	98.59%
61.0	12.085	1.158	2512.097	0.04%	98.63%
62.0	11.990	1.160	2513.257	0.04%	98.68%
63.0	11.909	1.162	2514.419	0.04%	98.73%
64.0	11.843	1.166	2515.585	0.04%	98.77%
65.0	11.778	1.169	2516.754	0.05%	98.82%
66.0	11.719	1.172	2517.926	0.05%	98.86%
67.0	11.661	1.176	2519.102	0.05%	98.91%
68.0	11.609	1.179	2520.281	0.05%	98.96%
69.0	11.580	1.183	2521.464	0.05%	99.00%
70.0	11.514	1.186	2522.65	0.05%	99.05%
71.0	11.470	1.188	2523.838	0.05%	99.10%
72.0	11.441	1.191	2525.029	0.05%	99.14%
73.0	11.412	1.195	2526.224	0.05%	99.19%
74.0	11.375	1.198	2527.422	0.05%	99.24%
75.0	11.353	1.201	2528.623	0.05%	99.28%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.331	1.204	2529.827	0.05%	99.33%
77.0	11.309	1.207	2531.034	0.05%	99.38%
78.0	11.295	1.210	2532.244	0.05%	99.43%
79.0	11.273	1.213	2533.457	0.05%	99.47%
80.0	11.273	1.215	2534.672	0.05%	99.52%
81.0	11.236	1.217	2535.89	0.05%	99.57%
82.0	11.222	1.218	2537.108	0.05%	99.62%
83.0	11.200	1.219	2538.326	0.05%	99.66%
84.0	11.185	1.219	2539.546	0.05%	99.71%
85.0	11.185	1.221	2540.767	0.05%	99.76%
86.0	11.170	1.222	2541.989	0.05%	99.81%
87.0	11.170	1.223	2543.212	0.05%	99.86%
88.0	11.134	1.222	2544.433	0.05%	99.90%
89.0	11.149	1.221	2545.655	0.05%	99.95%
90.0	11.141	1.222	2546.877	0.05%	100.00%

Zonal flux distribution table

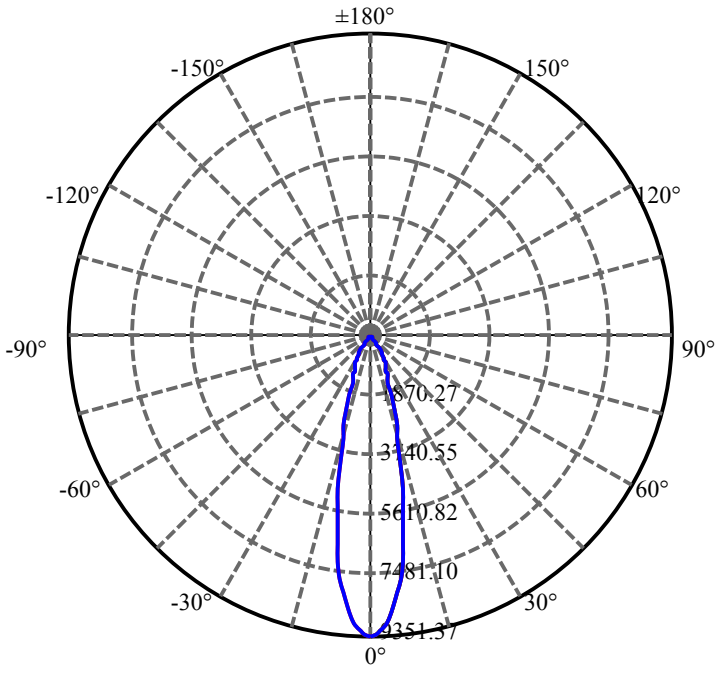
ZONAL LUMEN SUMMARY

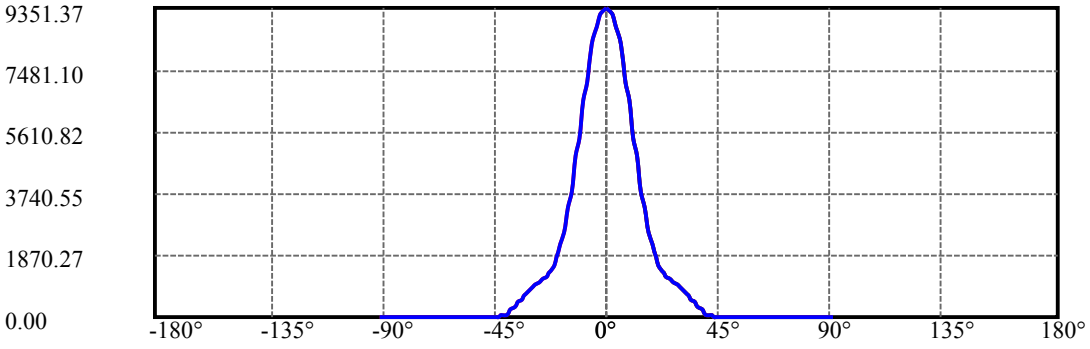
Zone	Lumens	%Lamp	%Fixt
0-30	2205.45	84.99%	86.59%
0-40	2480.22	95.58%	97.38%
0-60	2510.94	96.76%	98.59%
0-90	2545.65	98.10%	99.95%
0-120	2545.65	98.10%	99.95%
0-180	2546.88	98.15%	100.00%
60-90	34.72	1.34%	1.36%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.64	2037.50	78.52%	80.00%

ZONAL LUMEN SUMMARY

0-10	725.91
10-20	935.03
20-30	544.50
30-40	274.78
40-50	18.93
50-60	11.79
60-70	11.71
70-80	12.02
80-90	10.98
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):

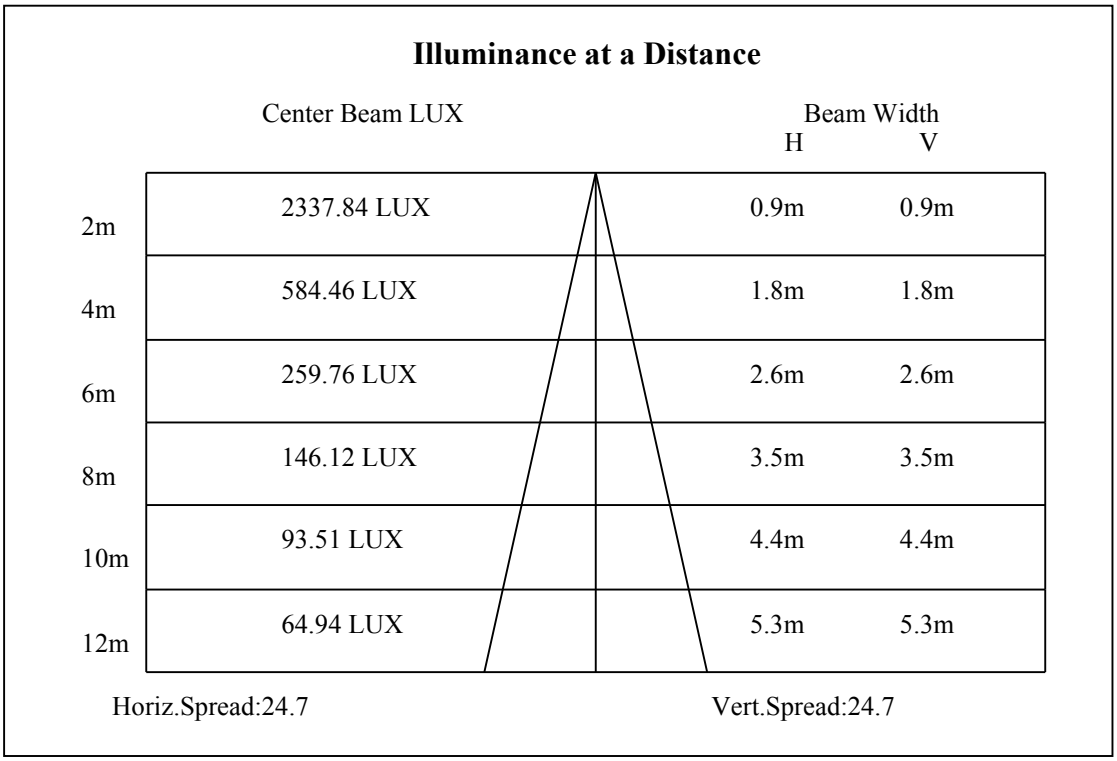
C0/C180:

C90/C270:

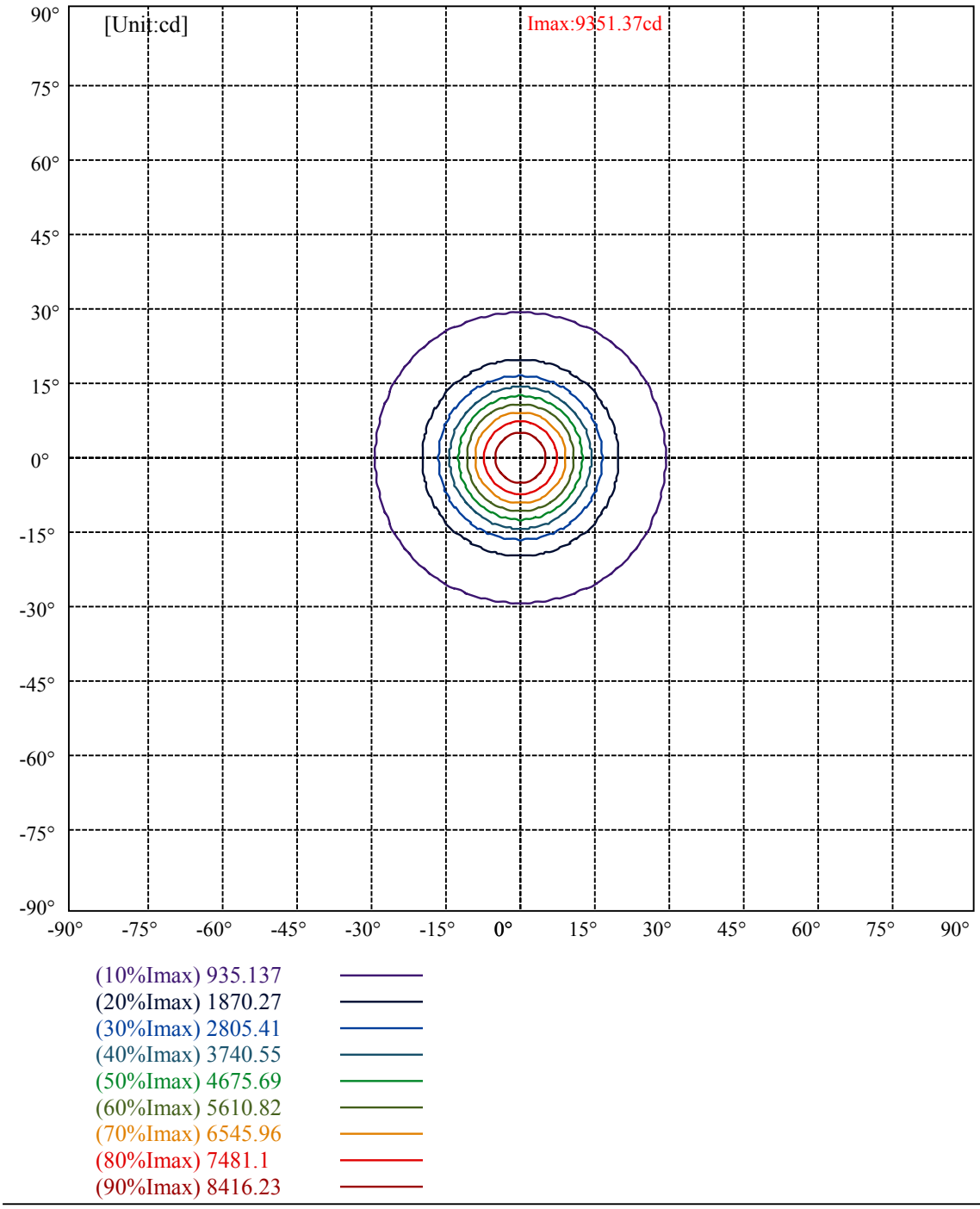
Field angle(10%Imax):C0/180Left:28.9 Right:28.9
:C90/270Left:28.9 Right:28.9

Beam Angle(50%Imax):C0/180Left:12.4 Right:12.4
:C90/270Left:12.4 Right:12.4

Lux distance Curve

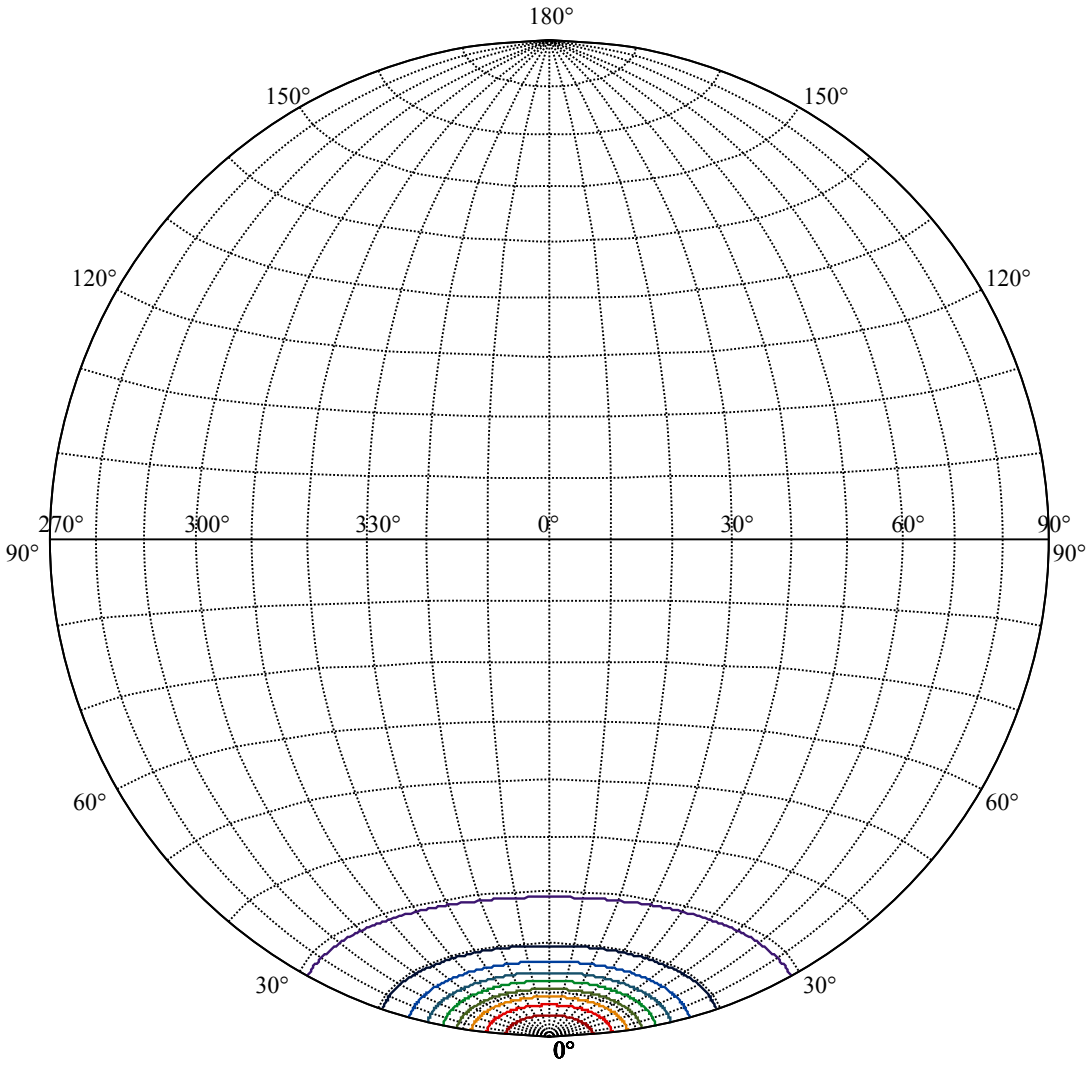


Equipment: GMS1980 Date: 2025/1/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65



Equipment: GMS1980
Temperature(°C): 25.0
Date: 2025/1/10
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:9351.37

(10%Imax) 935.137
(20%Imax) 1870.27
(30%Imax) 2805.41
(40%Imax) 3740.55
(50%Imax) 4675.69
(60%Imax) 5610.82
(70%Imax) 6545.96
(80%Imax) 7481.1
(90%Imax) 8416.23

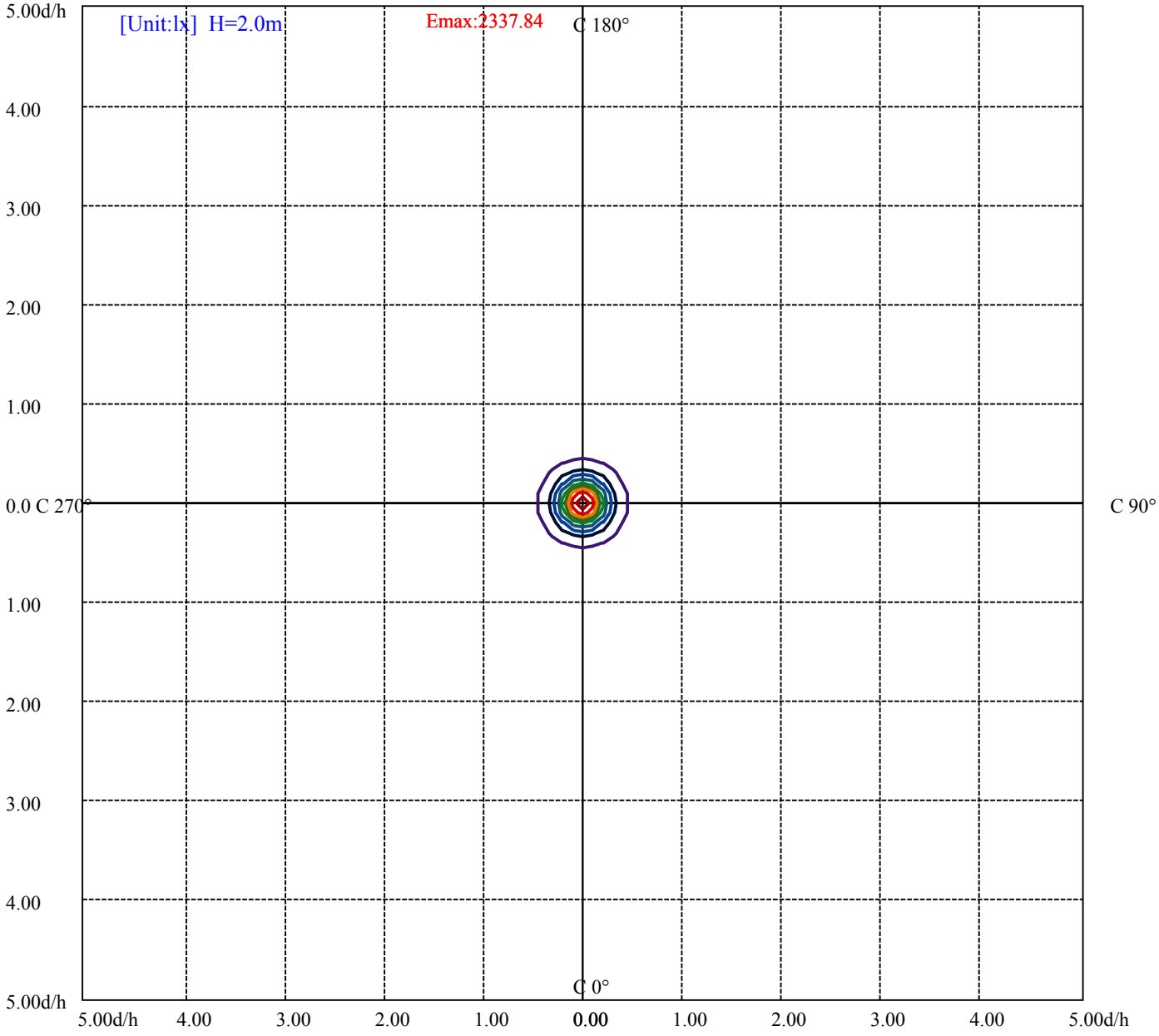
Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/1/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT NT 2-2870-L

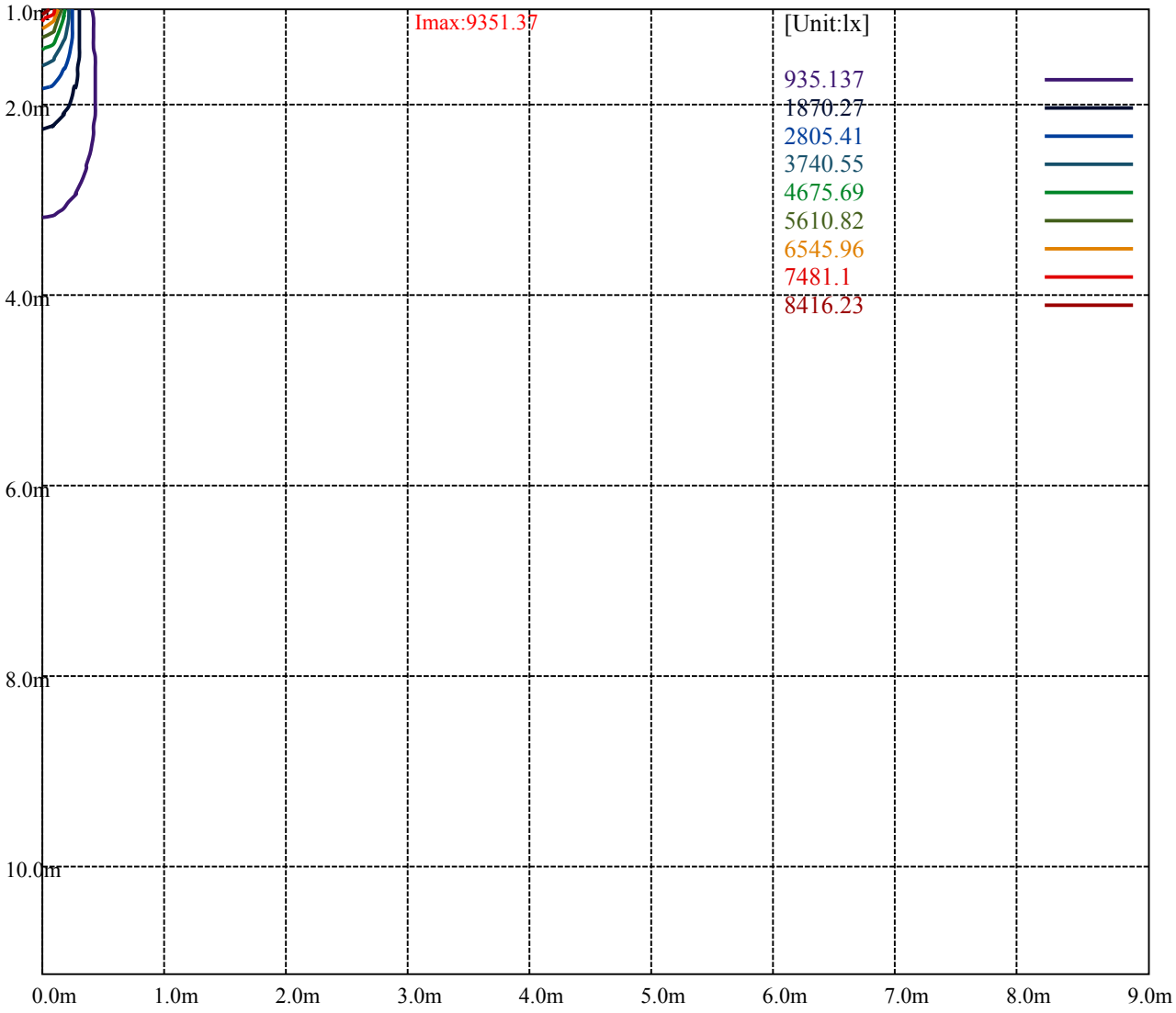
ISO illuminance diagram



(10%Emax) 233.784
(20%Emax) 467.5675
(30%Emax) 701.3525
(40%Emax) 935.1375
(50%Emax) 1168.92
(60%Emax) 1402.705
(70%Emax) 1636.49
(80%Emax) 1870.272
(90%Emax) 2104.058

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2025/1/10
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/1/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT NT 2-2870-L

Luminance Limitting Curve(no luminous side)

Luminance Table

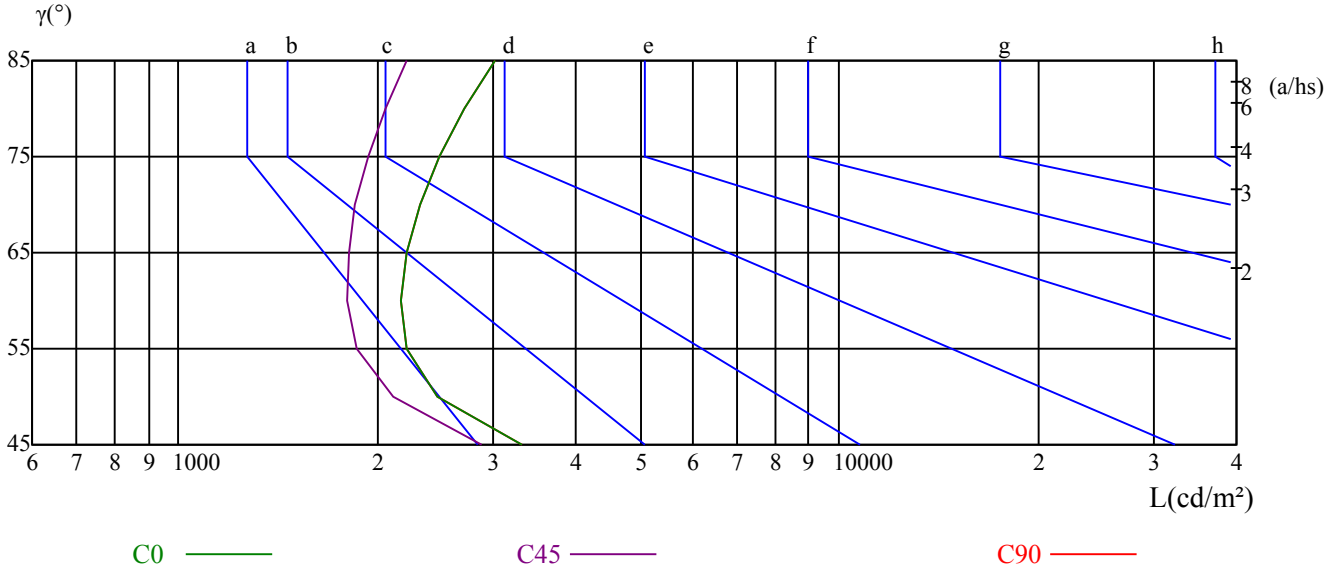
γ	45	50	55	60	65	70	75	80	85
C0	3304	2462	2215	2173	2222	2324	2484	2715	3021
C45	2870	2107	1867	1801	1809	1854	1937	2061	2222
C90	3304	2462	2215	2173	2222	2324	2484	2715	3021

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4954	4954	4954	7798	7798	7798	22815	22815	22815

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: GMS1980
Temperature(°C): 25.0

Date: 2025/1/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Illumination assessment according UGR

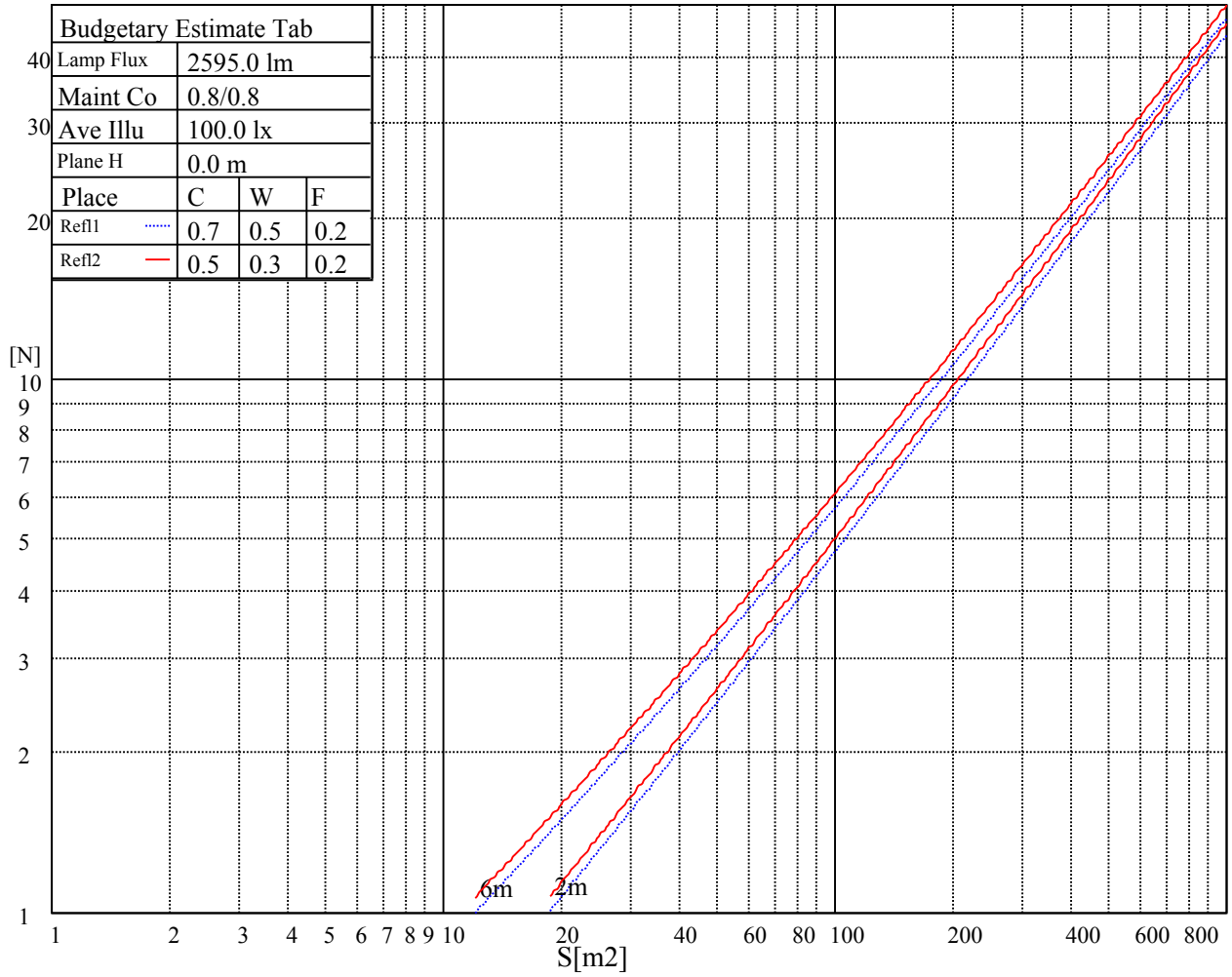
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	14.25	15.17	14.61	15.48	15.79	14.65	15.57	15.02	15.88	16.20
	3H	14.21	15.02	14.59	15.36	15.71	14.59	15.41	14.98	15.75	16.09
	4H	14.26	15.02	14.66	15.38	15.74	14.63	15.38	15.03	15.74	16.11
	6H	14.43	15.12	14.85	15.50	15.90	14.77	15.46	15.19	15.84	16.24
	8H	14.54	15.19	14.96	15.58	15.99	14.85	15.51	15.27	15.90	16.30
	12H	14.68	15.30	15.11	15.70	16.12	14.97	15.60	15.40	15.99	16.41
4H	2H	13.97	14.73	14.38	15.09	15.45	14.37	15.13	14.77	15.48	15.85
	3H	13.98	14.62	14.41	15.01	15.43	14.35	14.98	14.77	15.38	15.80
	4H	14.16	14.71	14.60	15.14	15.59	14.50	15.05	14.94	15.48	15.93
	6H	14.44	14.92	14.91	15.38	15.83	14.73	15.22	15.21	15.67	16.13
	8H	14.67	15.12	15.15	15.58	16.05	14.93	15.38	15.42	15.84	16.32
	12H	14.96	15.37	15.45	15.83	16.35	15.20	15.61	15.69	16.06	16.59
8H	4H	14.11	14.56	14.59	15.02	15.49	14.43	14.88	14.92	15.34	15.81
	6H	14.52	14.88	15.02	15.36	15.88	14.79	15.15	15.29	15.63	16.15
	8H	14.91	15.22	15.45	15.74	16.24	15.15	15.45	15.68	15.98	16.47
	12H	15.36	15.59	15.91	16.11	16.64	15.56	15.79	16.10	16.31	16.83
12H	4H	14.09	14.51	14.58	14.96	15.48	14.41	14.83	14.90	15.28	15.80
	6H	14.59	14.90	15.13	15.42	15.92	14.86	15.16	15.39	15.69	16.18
	8H	15.00	15.24	15.55	15.75	16.28	15.23	15.46	15.78	15.98	16.51

Variation with the observer position at spacings:

S = 1.0H	5.8/-6.9	5.8/-6.9
S = 1.5H	8.1/-5.3	8.1/-5.3
S = 2.0H	9.6/-4.2	9.6/-4.2
Standard tables:	BK2	BK2
Uncorrected UGR	-2.9	-2.9

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Budgetary Estimate Table

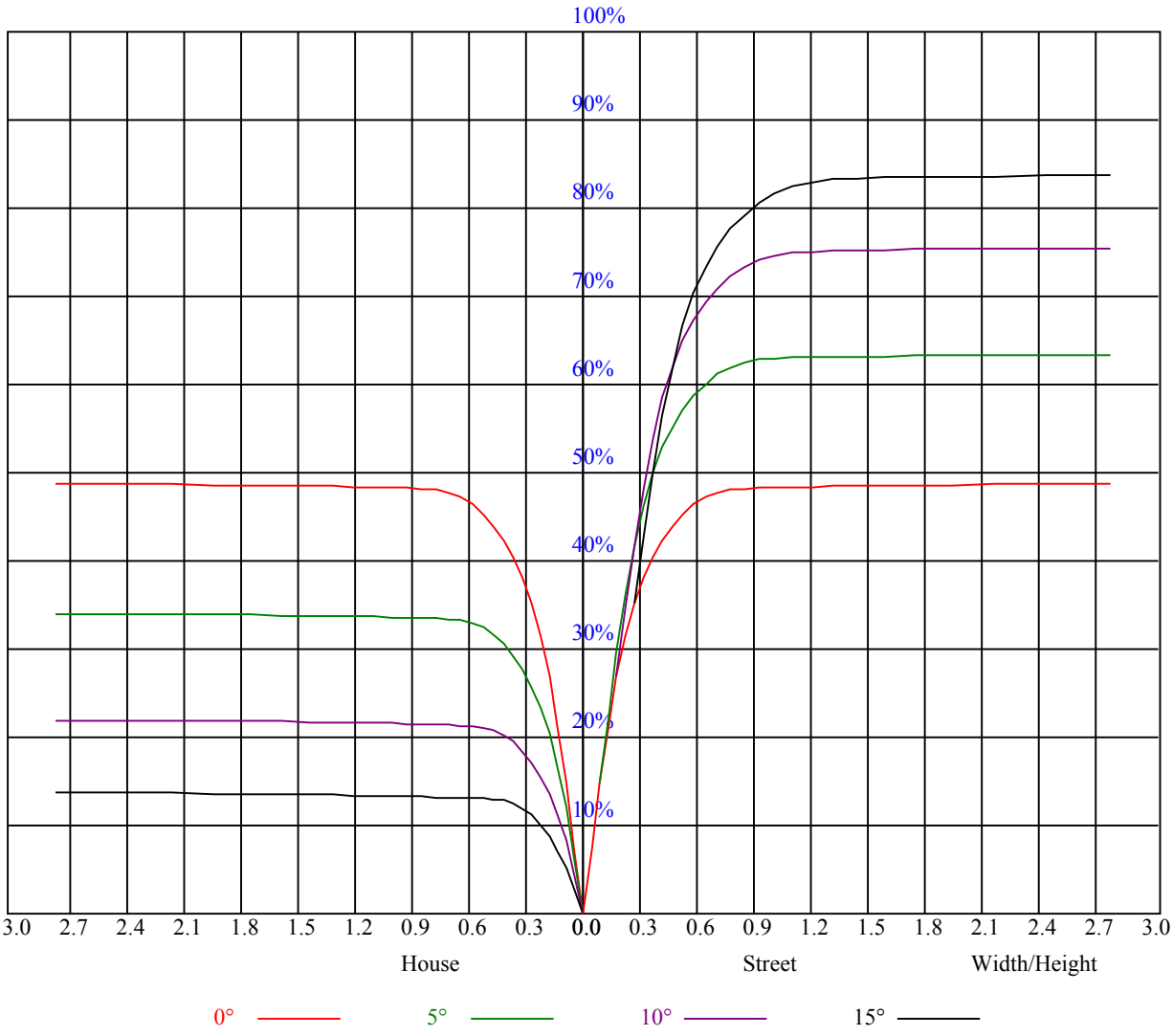


Equipment: GMS1980 Date: 2025/1/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

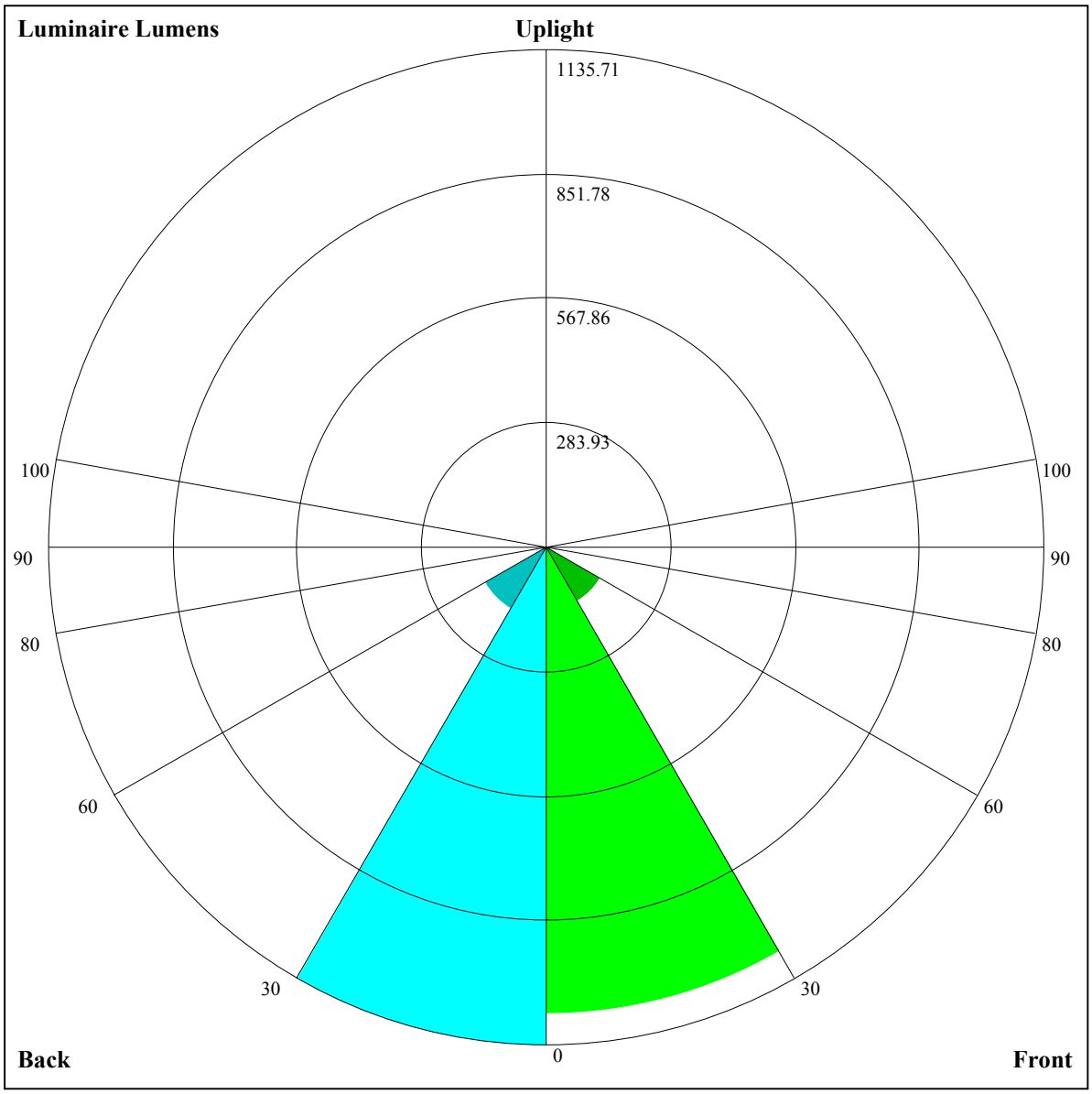
Utilization factor table for indoor luminaire

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	1.17	1.17	1.17	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.98
1	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.93
2	1.04	1.00	0.98	1.02	0.99	0.97	0.99	0.97	0.94	0.96	0.94	0.92	0.94	0.92	0.91	0.89
3	0.99	0.94	0.91	0.97	0.94	0.91	0.95	0.92	0.89	0.92	0.90	0.88	0.90	0.88	0.86	0.85
4	0.94	0.89	0.86	0.93	0.89	0.86	0.91	0.87	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.81
5	0.90	0.85	0.82	0.89	0.85	0.81	0.87	0.84	0.81	0.86	0.83	0.80	0.84	0.82	0.79	0.78
6	0.86	0.81	0.78	0.85	0.81	0.78	0.84	0.80	0.77	0.83	0.79	0.77	0.81	0.78	0.76	0.75
7	0.83	0.78	0.75	0.82	0.78	0.74	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.73	0.72
8	0.79	0.75	0.72	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.71	0.70
9	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.67
10	0.74	0.69	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.65

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2025/1/10	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1066.48,FM=143.75,FH=11.84,FVH=6.1
BL=1135.71,BM=161.95,BH=11.87,BVH=6.1
UL=0,UH=0

BUG Rating:B3-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	9344.35	9246.03	9033.59	8796.58	8496.94	8037.54	7619.69	7153.85	6651.14
45.0	9361.32	9363.66	9296.94	9166.44	8915.96	8640.32	8299.72	7894.16	7305.42
90.0	9378.29	9309.23	9189.26	9014.28	8779.02	8396.87	8031.69	7611.49	7142.14
135.0	9321.52	9383.56	9356.05	9265.34	9068.12	8845.73	8570.09	8247.05	7782.97
180.0	9344.35	9369.51	9308.65	9185.75	8951.07	8698.26	8389.26	8008.28	7496.79
225.0	9361.32	9265.34	9122.55	8922.40	8580.63	8230.66	7809.30	7191.30	6636.51
270.0	9378.29	9357.81	9274.12	9089.19	8876.17	8601.70	8170.38	7742.00	7170.82
315.0	9321.52	9202.14	8972.14	8722.25	8415.01	7954.44	7532.49	7073.67	6588.52
360.0	9344.35	9246.03	9033.59	8796.58	8496.94	8037.54	7619.69	7153.85	6651.14

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5992.18	5453.19	4915.36	4391.00	3779.44	3339.94	2944.91	2508.92	2216.89
45.0	6779.30	6222.17	5490.05	4897.22	4170.96	3628.45	3135.69	2700.87	2244.98
90.0	6505.42	5971.69	5289.32	4745.65	4225.38	3627.87	3194.22	2801.53	2383.09
135.0	7370.97	6933.22	6474.40	6001.54	5403.44	4934.68	4368.18	3939.79	3538.33
180.0	7015.74	6511.27	5996.86	5453.77	4784.27	4259.91	3681.12	3267.37	2877.61
225.0	6048.94	5303.95	4712.88	4145.21	3615.58	3029.77	2624.79	2278.34	1988.07
270.0	6644.12	6112.15	5563.21	5013.10	4353.55	3855.52	3428.31	3042.64	2593.78
315.0	6092.25	5478.35	5000.81	4540.82	4004.75	3612.07	3251.57	2847.76	2560.42
360.0	5992.18	5453.19	4915.36	4391.00	3779.44	3339.94	2944.91	2508.92	2216.89

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1974.02	1722.38	1556.76	1420.40	1157.22	1157.22	1123.63	1061.13	998.28
45.0	1955.88	1724.13	1538.03	1358.37	1247.76	1162.32	1079.21	1027.71	984.41
90.0	2107.45	1872.78	1678.48	1516.38	1282.29	1166.53	1166.53	1099.29	1026.66
135.0	3091.80	2776.37	2493.70	2185.87	1974.02	1791.43	1635.76	1473.66	1365.97
180.0	2443.96	2157.20	1920.77	1674.39	1515.21	1388.21	1283.46	1179.29	1111.40
225.0	1699.55	1519.89	1376.51	1151.49	1151.49	1085.36	1021.10	977.79	940.92
270.0	2287.70	2038.98	1778.56	1602.40	1426.84	1319.16	1229.03	1135.98	1073.95
315.0	2308.19	2036.64	1850.54	1693.70	1531.59	1423.91	1329.69	1153.48	1153.48
360.0	1974.02	1722.38	1556.76	1420.40	1157.22	1157.22	1123.63	1061.13	998.28

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	956.14	918.34	873.86	797.31	723.57	641.06	530.51	438.80	348.15
45.0	936.42	905.99	874.38	839.86	787.19	721.06	625.66	546.66	462.39
90.0	979.90	931.44	893.64	840.68	754.88	676.17	593.54	485.97	397.37
135.0	1268.83	1187.48	1103.21	1046.44	987.33	894.87	810.60	695.89	599.33
180.0	1051.71	1003.72	952.80	913.59	865.61	783.67	707.01	600.50	511.55
225.0	903.76	878.36	847.52	786.31	719.59	644.22	564.10	461.39	377.12
270.0	1020.69	977.38	939.34	878.48	812.94	736.86	651.41	544.90	458.87
315.0	1093.38	1035.15	968.37	866.60	775.77	678.80	555.55	458.82	341.13
360.0	956.14	918.34	873.86	797.31	723.57	641.06	530.51	438.80	348.15

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	242.05	168.66	107.97	54.60	35.17	28.91	25.52	22.06	19.78
45.0	378.11	295.60	295.60	125.88	72.51	36.17	25.81	23.12	20.07
90.0	312.69	233.45	144.61	86.96	49.57	31.72	27.10	22.94	20.72
135.0	501.01	379.87	310.23	310.23	129.92	71.69	48.87	39.91	34.59
180.0	419.66	330.13	308.47	208.98	90.18	50.21	29.38	25.81	22.65
225.0	295.89	218.93	132.44	76.49	39.85	24.11	21.59	18.73	17.26
270.0	351.19	309.64	309.64	121.96	60.16	35.87	27.33	24.05	21.42
315.0	255.57	180.31	119.62	70.17	50.86	44.01	38.33	32.66	28.38
360.0	242.05	168.66	107.97	54.60	35.17	28.91	25.52	22.06	19.78

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	17.67	16.33	15.74	15.16	14.46	13.99	13.58	13.23	12.99
45.0	18.49	16.62	15.39	15.04	14.57	14.16	13.81	13.46	13.23
90.0	18.02	16.50	15.74	15.10	14.57	14.10	13.58	13.23	12.99
135.0	30.26	25.69	22.65	20.78	19.08	17.85	16.56	15.57	14.86
180.0	20.42	17.79	16.62	15.80	15.27	14.75	14.10	13.69	13.40
225.0	15.98	15.33	14.92	14.46	14.16	13.81	13.40	13.17	12.99
270.0	19.31	17.21	16.39	15.68	15.10	14.46	13.99	13.52	13.17
315.0	25.22	23.23	21.07	19.61	17.97	16.74	15.86	14.98	14.46
360.0	17.67	16.33	15.74	15.16	14.46	13.99	13.58	13.23	12.99

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.82	12.64	12.47	12.41	12.29	12.17	12.06	12.00	11.94
45.0	12.99	12.87	12.70	12.64	12.41	12.35	12.23	12.11	12.06
90.0	12.82	12.64	12.47	12.41	12.23	12.11	12.00	11.94	11.88
135.0	14.28	13.81	13.46	13.17	12.93	12.76	12.52	12.35	12.23
180.0	13.05	12.93	12.70	12.58	12.47	12.35	12.23	12.11	12.00
225.0	12.87	12.76	12.58	12.41	12.35	12.23	12.11	12.06	11.94
270.0	12.93	12.76	12.52	12.41	12.29	12.17	12.06	11.94	11.88
315.0	13.99	13.58	13.17	12.87	12.70	12.47	12.23	12.17	12.00
360.0	12.82	12.64	12.47	12.41	12.29	12.17	12.06	12.00	11.94

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.82	11.82	11.76	11.70	11.65	11.59	11.59	11.53	11.47
45.0	11.94	11.88	11.82	11.76	11.70	11.65	11.65	11.53	11.53
90.0	11.76	11.70	11.70	11.65	11.59	11.53	11.47	11.47	11.41
135.0	12.11	12.06	11.88	11.88	11.82	11.70	11.65	11.59	11.53
180.0	12.00	11.88	11.82	11.76	11.70	11.70	11.65	11.59	11.53
225.0	11.94	11.82	11.76	11.70	11.65	11.59	11.59	11.47	11.41
270.0	11.82	11.76	11.70	11.65	11.59	11.53	11.53	11.47	11.41
315.0	11.88	11.82	11.76	11.65	11.59	11.59	11.53	11.47	11.47
360.0	11.82	11.82	11.76	11.70	11.65	11.59	11.59	11.53	11.47

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.47	11.41	11.41	11.41	11.35	11.35	11.35	11.29	11.35
45.0	11.47	11.47	11.41	11.41	11.35	11.35	11.29	11.29	11.29
90.0	11.41	11.35	11.29	11.29	11.24	11.24	11.24	11.24	11.24
135.0	11.53	11.47	11.41	11.41	11.35	11.35	11.35	11.29	11.29
180.0	11.47	11.47	11.41	11.41	11.41	11.35	11.35	11.29	11.29
225.0	11.41	11.41	11.35	11.29	11.35	11.29	11.29	11.24	11.29
270.0	11.41	11.35	11.35	11.29	11.29	11.24	11.24	11.24	11.18
315.0	11.35	11.35	11.35	11.29	11.29	11.29	11.24	11.29	11.24
360.0	11.47	11.41	11.41	11.41	11.35	11.35	11.35	11.29	11.35

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.29	11.29	11.24	11.24	11.24	11.24	11.24	11.18	11.18
45.0	11.24	11.24	11.24	11.24	11.18	11.18	11.18	11.12	11.18
90.0	11.18	11.18	11.12	11.12	11.12	11.12	11.12	11.12	11.12
135.0	11.29	11.24	11.18	11.18	11.18	11.18	11.18	11.18	11.12
180.0	11.29	11.29	11.24	11.24	11.24	11.24	11.24	11.18	11.18
225.0	11.24	11.18	11.24	11.18	11.18	11.18	11.18	11.12	11.12
270.0	11.18	11.18	11.18	11.12	11.18	11.12	11.12	11.06	11.12
315.0	11.18	11.18	11.18	11.18	11.18	11.12	11.12	11.12	11.18
360.0	11.29	11.29	11.24	11.24	11.24	11.24	11.24	11.18	11.18

Intensity data(cd)

C/γ(°)	90.0
0.0	11.24
45.0	11.12
90.0	11.12
135.0	11.12
180.0	11.18
225.0	11.12
270.0	11.12
315.0	11.12
360.0	11.24