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NATA

Client:
LumCAT: 4-2640-A
Luminaire: BJB 47.319.2021
Report No: 20230306-B008
Ballast type: AC

Test No: 20230306-C008	Voltage(V): 34.560
LampCAT: CITIZEN CLU038	Current(A): 0.480
Lamp flux(lm): 2617.9	Power (W): 16.588
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2396.57, Efficiency(%): 91.54% , Luminous Efficacy(lm/W): 144.48
Central intensity(cd): 37373.230, Maximum intensity(cd): 37373.230
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=9.8
[C90/270]Total=9.8
Field angle(10%Imax): [C0/180]Total=19.8
[C90/270]Total=19.8
Maximum s/h(1/2): C0_180=0.17 C90_270=0.17
Maximum s/h(1/4): C0_180=0.17 C90_270=0.17
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.54%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.686%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	37373.227	0.000	0	0.00%	0.00%
1.0	36372.367	35.286	35.286	1.35%	1.47%
2.0	33683.488	100.551	135.837	3.84%	5.67%
3.0	29169.902	150.325	286.161	5.74%	11.94%
4.0	23399.355	175.966	462.127	6.72%	19.28%
5.0	18391.256	179.781	641.908	6.87%	26.78%
6.0	12880.335	164.341	806.249	6.28%	33.64%
7.0	9676.624	140.011	946.26	5.35%	39.48%
8.0	6926.870	118.828	1065.088	4.54%	44.44%
9.0	4964.510	96.373	1161.461	3.68%	48.46%
10.0	3633.141	77.806	1239.266	2.97%	51.71%
11.0	2854.351	64.823	1304.09	2.48%	54.41%
12.0	2291.942	56.256	1360.346	2.15%	56.76%
13.0	1815.741	48.748	1409.094	1.86%	58.80%
14.0	1570.754	43.347	1452.441	1.66%	60.60%
15.0	1394.924	40.714	1493.155	1.56%	62.30%
16.0	1286.495	39.290	1532.445	1.50%	63.94%
17.0	1176.124	38.350	1570.795	1.46%	65.54%
18.0	1109.201	37.680	1608.475	1.44%	67.12%
19.0	1055.498	37.661	1646.136	1.44%	68.69%
20.0	1004.962	37.712	1683.848	1.44%	70.26%
21.0	960.849	37.748	1721.596	1.44%	71.84%
22.0	925.513	37.907	1759.503	1.45%	73.42%
23.0	895.069	38.201	1797.704	1.46%	75.01%
24.0	870.533	38.602	1836.306	1.47%	76.62%
25.0	855.624	39.249	1875.555	1.50%	78.26%
26.0	843.972	40.119	1915.674	1.53%	79.93%
27.0	833.448	41.038	1956.713	1.57%	81.65%
28.0	823.134	41.941	1998.654	1.60%	83.40%
29.0	813.394	42.816	2041.47	1.64%	85.18%
30.0	802.646	43.633	2085.103	1.67%	87.00%
31.0	787.961	44.264	2129.367	1.69%	88.85%
32.0	749.869	44.057	2173.424	1.68%	90.69%
33.0	681.444	42.167	2215.591	1.61%	92.45%
34.0	578.572	38.132	2253.723	1.46%	94.04%
35.0	423.648	31.125	2284.848	1.19%	95.34%
36.0	308.818	23.322	2308.17	0.89%	96.31%
37.0	175.905	15.809	2323.979	0.60%	96.97%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	95.381	9.055	2333.034	0.35%	97.35%
39.0	40.692	4.645	2337.679	0.18%	97.54%
40.0	29.361	2.443	2340.122	0.09%	97.64%
41.0	25.529	1.955	2342.077	0.07%	97.73%
42.0	23.334	1.775	2343.852	0.07%	97.80%
43.0	21.884	1.675	2345.527	0.06%	97.87%
44.0	21.257	1.628	2347.155	0.06%	97.94%
45.0	20.914	1.621	2348.776	0.06%	98.01%
46.0	20.510	1.620	2350.396	0.06%	98.07%
47.0	18.538	1.553	2351.949	0.06%	98.14%
48.0	15.446	1.374	2353.323	0.05%	98.20%
49.0	12.466	1.146	2354.469	0.04%	98.24%
50.0	11.338	0.992	2355.461	0.04%	98.28%
51.0	11.181	0.953	2356.414	0.04%	98.32%
52.0	11.032	0.953	2357.367	0.04%	98.36%
53.0	10.890	0.954	2358.321	0.04%	98.40%
54.0	10.770	0.955	2359.276	0.04%	98.44%
55.0	10.688	0.958	2360.234	0.04%	98.48%
56.0	10.606	0.962	2361.196	0.04%	98.52%
57.0	10.524	0.966	2362.162	0.04%	98.56%
58.0	10.457	0.970	2363.132	0.04%	98.60%
59.0	10.419	0.976	2364.108	0.04%	98.65%
60.0	10.352	0.981	2365.089	0.04%	98.69%
61.0	10.322	0.987	2366.076	0.04%	98.73%
62.0	10.285	0.993	2367.069	0.04%	98.77%
63.0	10.240	0.998	2368.067	0.04%	98.81%
64.0	10.188	1.002	2369.07	0.04%	98.85%
65.0	10.173	1.008	2370.077	0.04%	98.89%
66.0	10.136	1.013	2371.091	0.04%	98.94%
67.0	10.121	1.019	2372.109	0.04%	98.98%
68.0	10.076	1.023	2373.132	0.04%	99.02%
69.0	10.076	1.028	2374.16	0.04%	99.06%
70.0	10.053	1.034	2375.194	0.04%	99.11%
71.0	10.038	1.038	2376.233	0.04%	99.15%
72.0	10.016	1.043	2377.275	0.04%	99.19%
73.0	10.001	1.047	2378.322	0.04%	99.24%
74.0	9.986	1.051	2379.373	0.04%	99.28%
75.0	9.986	1.055	2380.428	0.04%	99.33%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.964	1.059	2381.487	0.04%	99.37%
77.0	9.956	1.062	2382.549	0.04%	99.41%
78.0	9.941	1.065	2383.614	0.04%	99.46%
79.0	9.941	1.068	2384.683	0.04%	99.50%
80.0	9.934	1.072	2385.754	0.04%	99.55%
81.0	9.941	1.075	2386.829	0.04%	99.59%
82.0	9.934	1.078	2387.907	0.04%	99.64%
83.0	9.934	1.080	2388.987	0.04%	99.68%
84.0	9.926	1.082	2390.069	0.04%	99.73%
85.0	9.926	1.084	2391.152	0.04%	99.77%
86.0	9.897	1.084	2392.236	0.04%	99.82%
87.0	9.889	1.083	2393.319	0.04%	99.86%
88.0	9.904	1.084	2394.403	0.04%	99.91%
89.0	9.897	1.085	2395.488	0.04%	99.95%
90.0	9.904	1.086	2396.574	0.04%	100.00%

Zonal flux distribution table

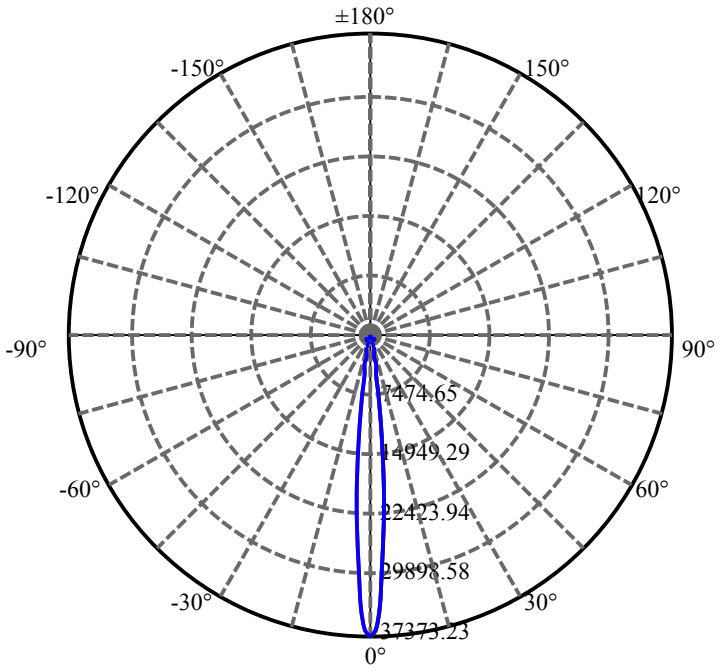
ZONAL LUMEN SUMMARY

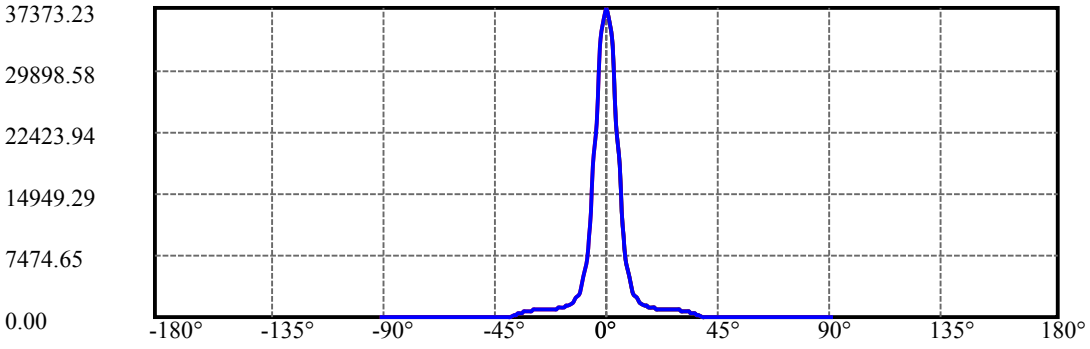
Zone	Lumens	%Lamp	%Fixt
0-30	2085.10	79.65%	87.00%
0-40	2340.12	89.39%	97.64%
0-60	2365.09	90.34%	98.69%
0-90	2395.49	91.50%	99.95%
0-120	2395.49	91.50%	99.95%
0-180	2396.57	91.54%	100.00%
60-90	30.40	1.16%	1.27%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.04	1917.26	73.24%	80.00%

ZONAL LUMEN SUMMARY

0-10	1239.27
10-20	444.58
20-30	401.25
30-40	255.02
40-50	15.34
50-60	9.63
60-70	10.10
70-80	10.56
80-90	9.73
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):

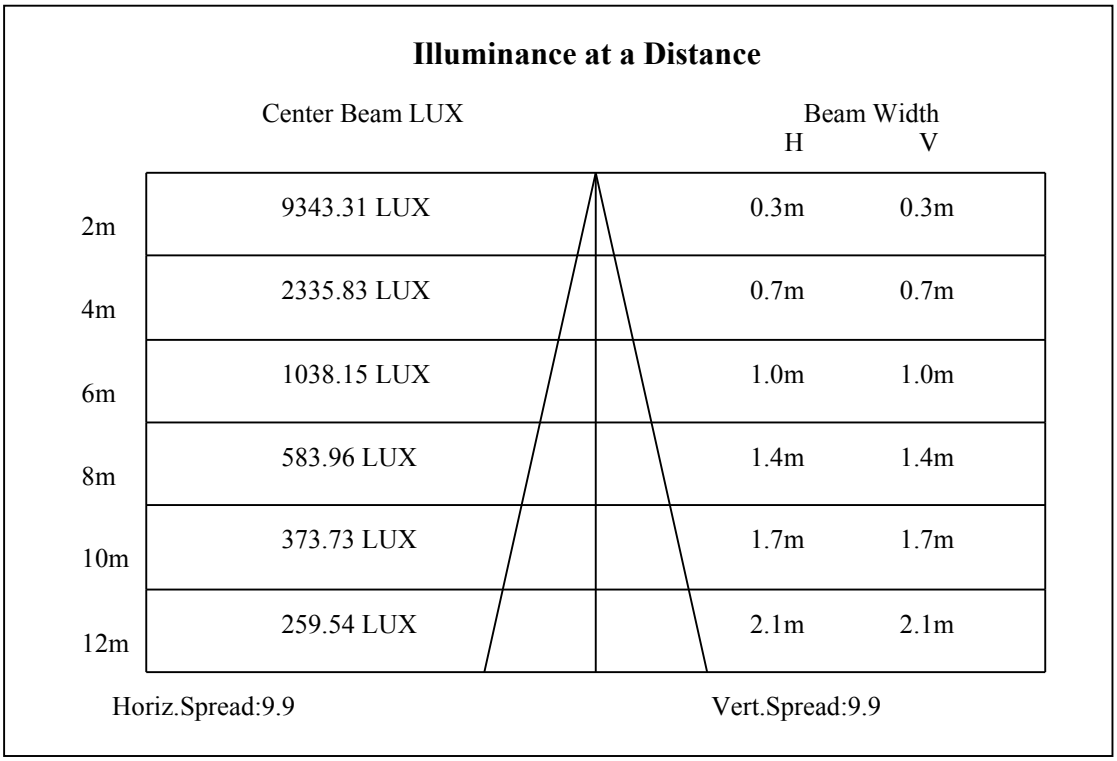
C0/C180:

C90/C270:

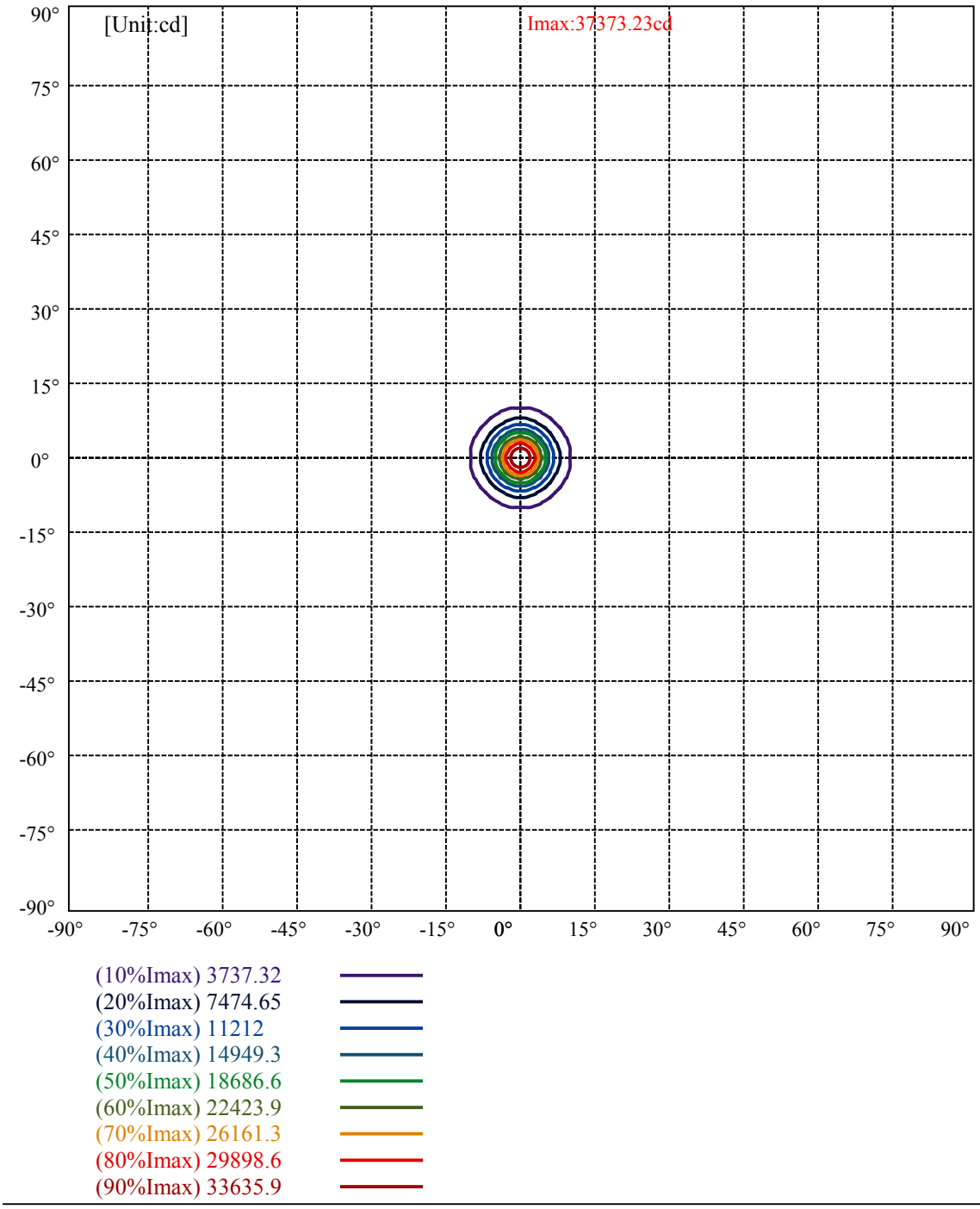
Field angle(10%Imax):C0/180Left:9.9 Right:9.9
:C90/270Left:9.9 Right:9.9

Beam Angle(50%Imax):C0/180Left:4.9 Right:4.9
:C90/270Left:4.9 Right:4.9

Lux distance Curve



ISO-Intensity(V-H)

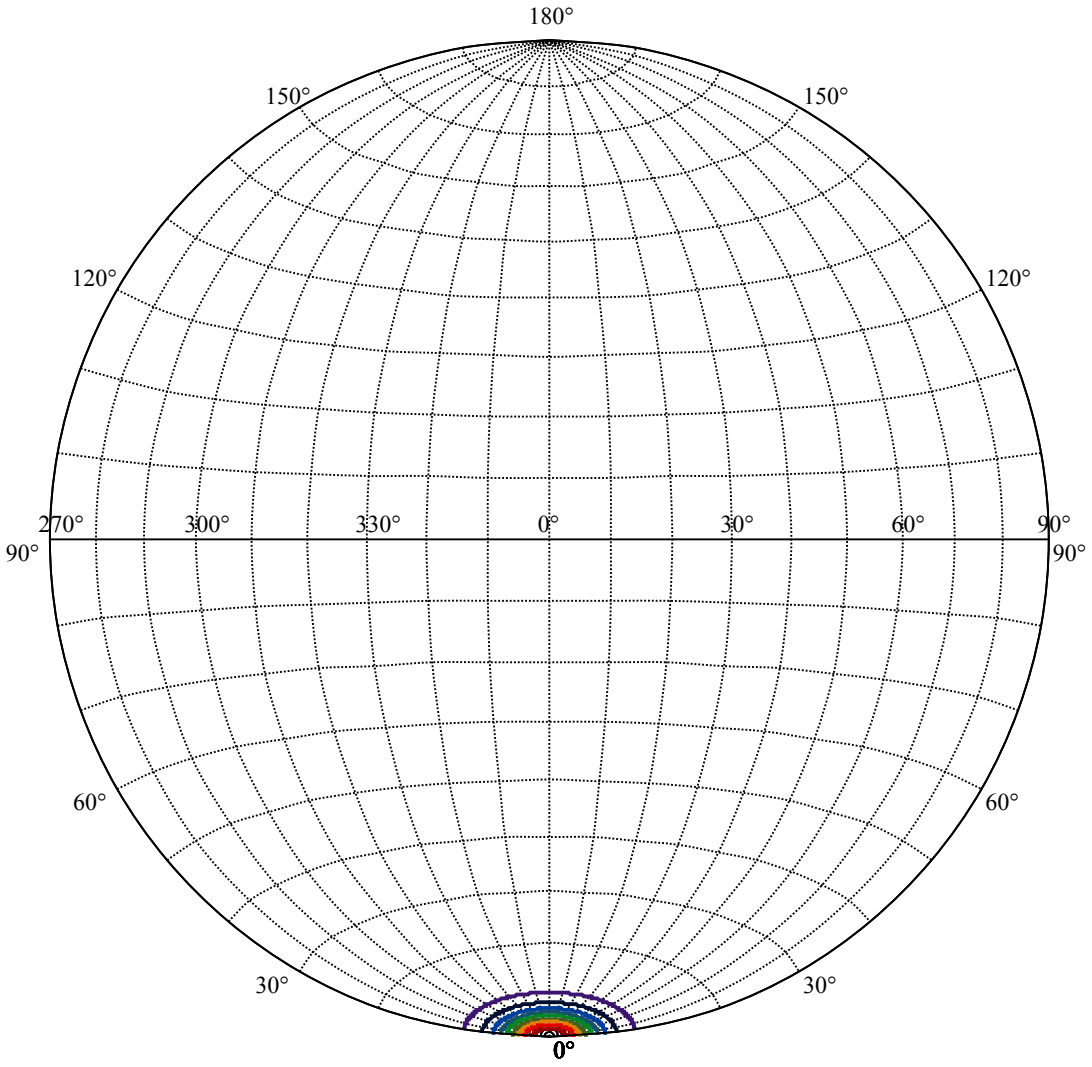


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/3/06
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.73

ISO candela diagram on circular web



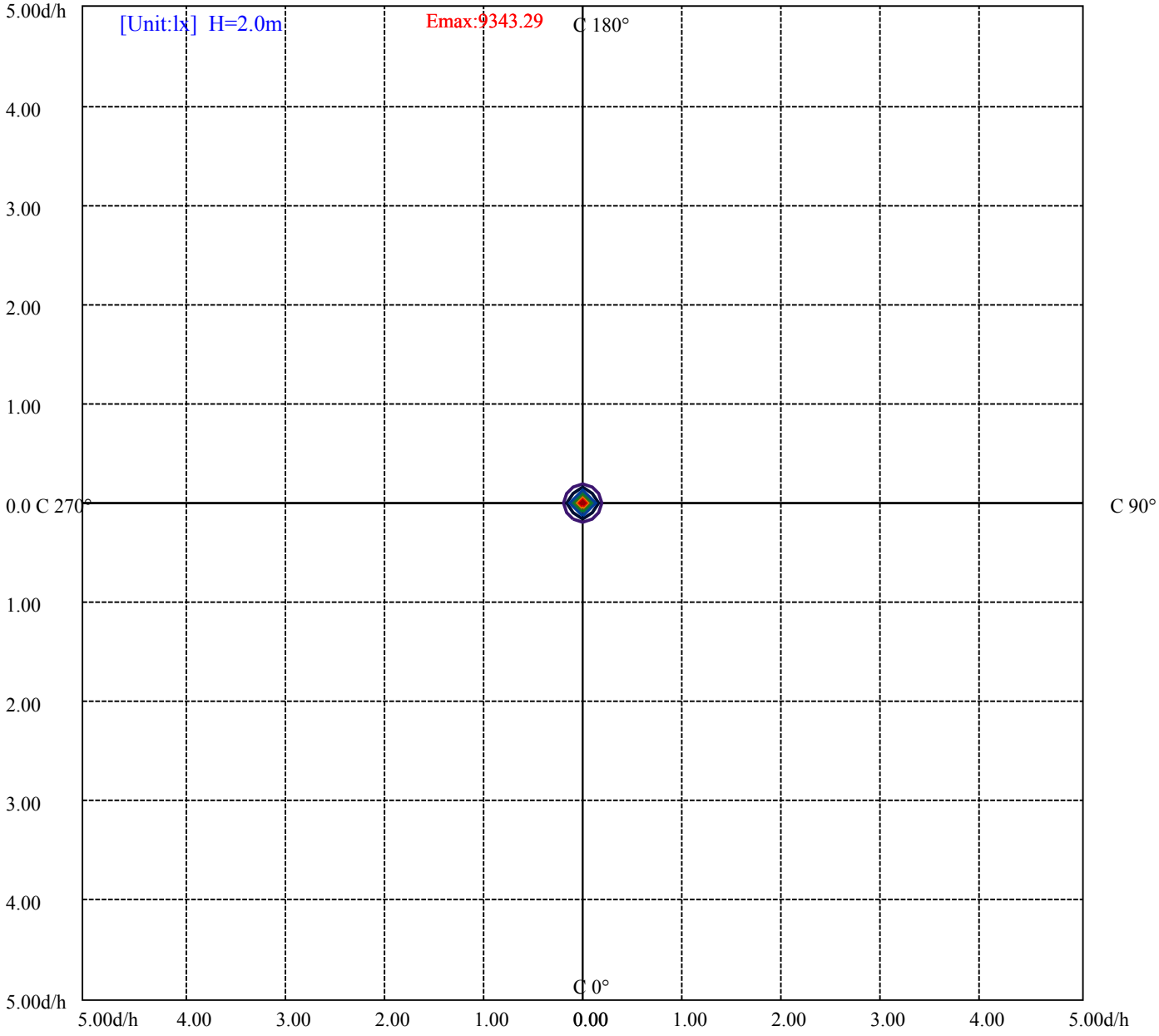
House [Unit:cd] Road

Imax:37373.23

(10%Imax) 3737.32
(20%Imax) 7474.65
(30%Imax) 11212
(40%Imax) 14949.3
(50%Imax) 18686.6
(60%Imax) 22423.9
(70%Imax) 26161.3
(80%Imax) 29898.6
(90%Imax) 33635.9

Equipment: GMS1980 Date: 2023/3/06 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.73

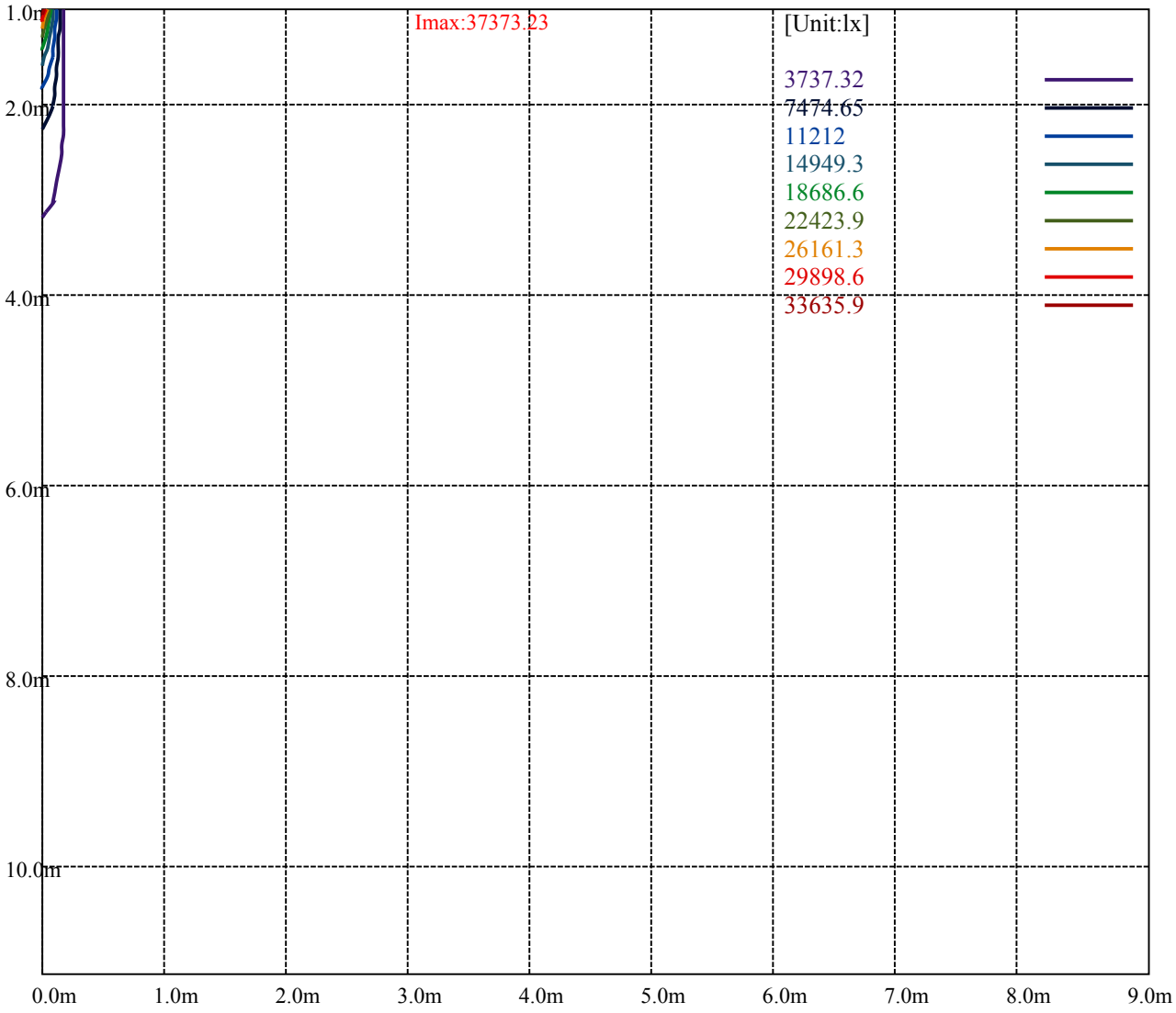
ISO illuminance diagram



(10%Emax) 934.3275
(20%Emax) 1868.652
(30%Emax) 2802.975
(40%Emax) 3737.3
(50%Emax) 4671.625
(60%Emax) 5605.95
(70%Emax) 6540.3
(80%Emax) 7474.625
(90%Emax) 8408.95

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2023/3/06
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.73

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/3/06
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.73

Luminance Limitting Curve(no luminous side)

Luminance Table

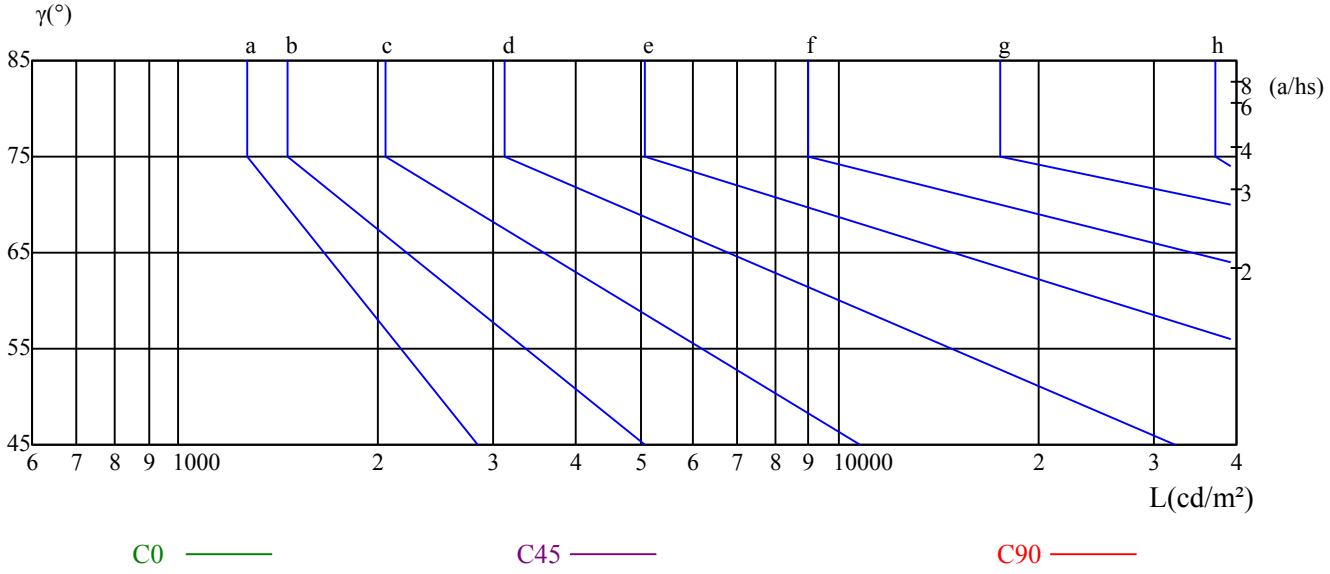
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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: GMS1980
Temperature(°C): 25.0

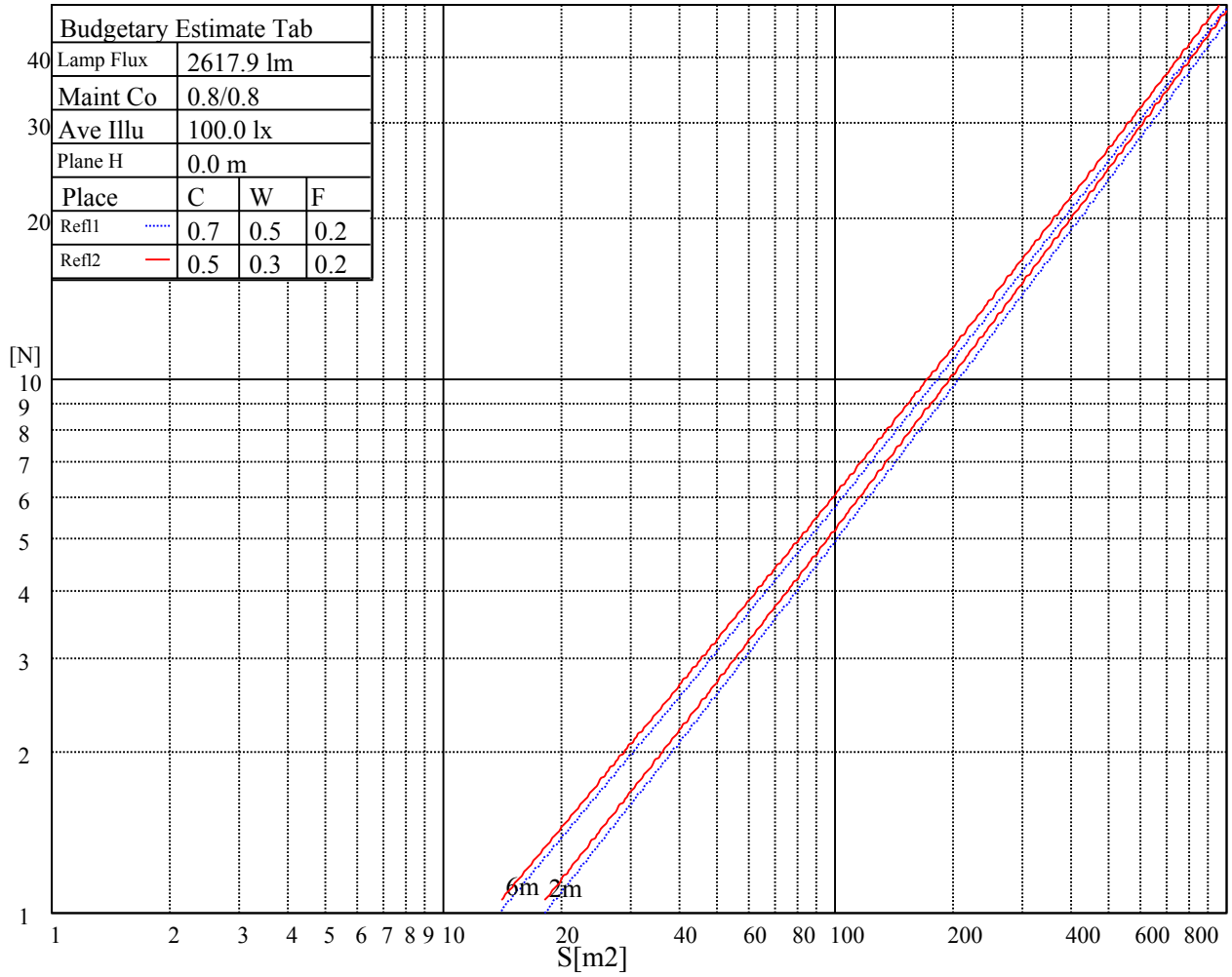
Date: 2023/3/06
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.73

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

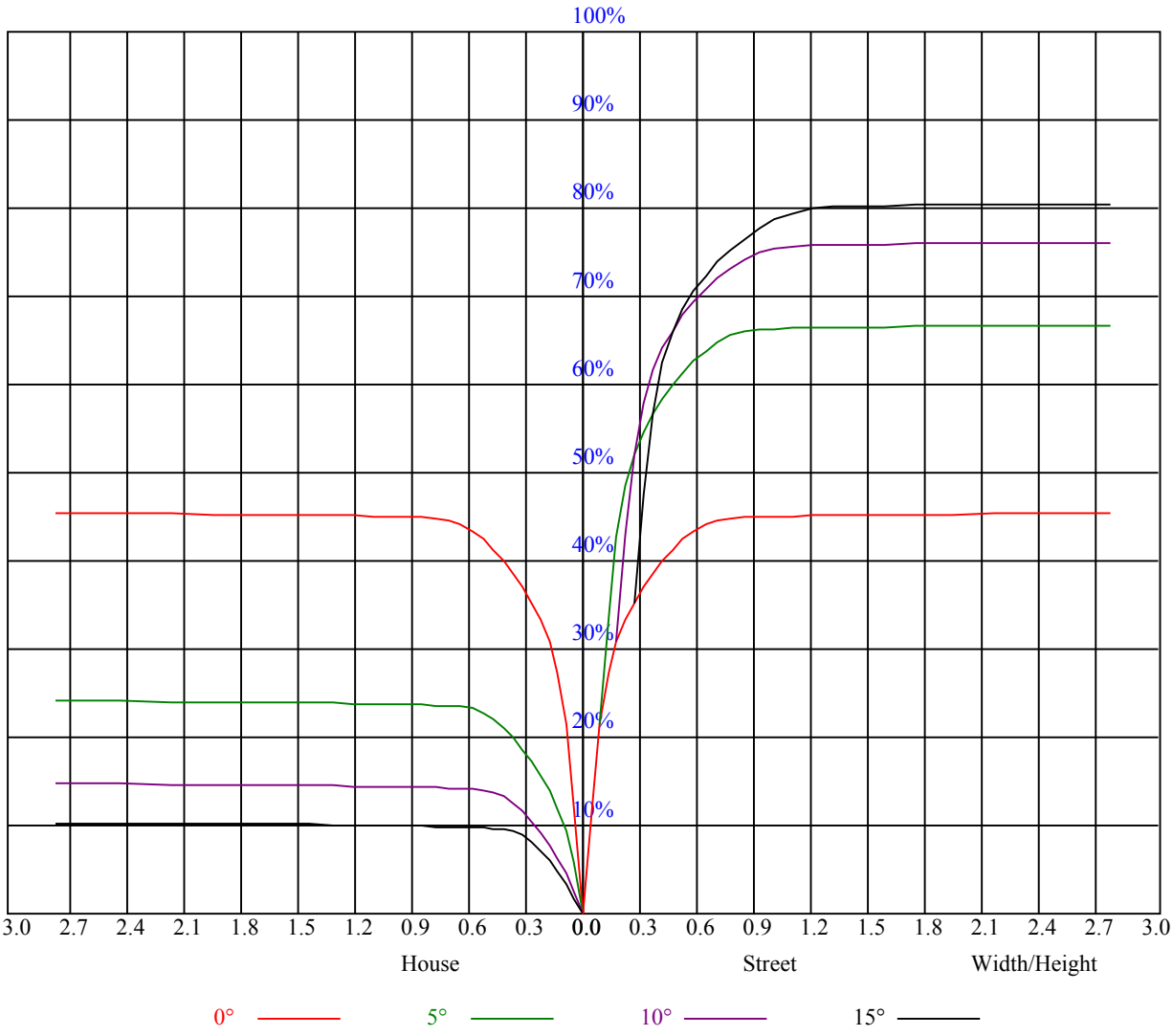


Equipment: GMS1980 Date: 2023/3/06 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.73

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	1.09	1.09	1.09	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	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	0.93	0.97	0.94	0.92	0.94	0.92	0.90	0.91	0.90	0.88	0.89	0.88	0.86	0.85
3	0.94	0.91	0.88	0.93	0.90	0.87	0.91	0.88	0.86	0.89	0.86	0.85	0.87	0.85	0.83	0.82
4	0.90	0.87	0.84	0.90	0.86	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.84	0.82	0.81	0.80
5	0.87	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
6	0.84	0.81	0.78	0.84	0.80	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.80	0.78	0.76	0.75
7	0.82	0.78	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.79	0.77	0.75	0.79	0.76	0.74	0.73
8	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.72
9	0.78	0.74	0.72	0.77	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.71	0.75	0.73	0.71	0.70
10	0.76	0.72	0.70	0.75	0.72	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.74	0.71	0.69	0.69

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/3/06	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.73

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	35964.55	37613.73	37434.47	35110.09	31459.18	26667.00	19980.65	15027.14	11017.72
45.0	38139.56	36968.40	33197.99	28656.77	23422.42	17494.93	12260.58	8771.01	6070.18
90.0	37727.26	35020.46	31656.37	26051.55	19293.49	11608.20	10226.71	7273.72	5006.70
135.0	37661.54	35970.53	32672.17	26756.63	21444.60	16323.78	10904.19	7832.89	5711.66
180.0	35964.55	32218.05	26929.91	21605.93	11920.70	11437.30	7885.59	5353.86	4168.96
225.0	38139.56	37613.73	34948.75	30335.83	25268.78	19191.91	11509.60	9791.71	6836.33
270.0	37727.26	38085.78	36825.00	32911.18	28298.26	22944.40	16293.90	11878.16	8579.80
315.0	37661.54	37488.25	35803.22	31931.23	26087.40	21462.52	13981.46	11484.51	8023.62
360.0	35964.55	37613.73	37434.47	35110.09	31459.18	26667.00	19980.65	15027.14	11017.72

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7677.53	5424.85	4056.50	3118.38	2343.51	1938.98	1634.24	1447.81	1297.24
45.0	4271.62	3202.04	3100.46	1993.95	1665.91	1466.93	1316.95	1210.00	1135.31
90.0	3543.94	2712.78	2111.67	1774.66	1517.72	1352.21	1184.84	1167.21	1091.80
135.0	4074.43	3082.53	2347.09	1891.78	1601.98	1436.46	1310.98	1226.73	1152.04
180.0	3196.78	2399.08	1989.17	1716.10	1489.64	1392.24	1290.07	1184.78	1102.62
225.0	5070.63	3722.61	2826.31	2292.72	1919.86	1616.32	1470.52	1364.16	1190.82
270.0	6010.42	4313.44	3297.64	3094.48	2026.22	1723.87	1497.41	1366.55	1251.23
315.0	5870.72	4207.80	3105.96	2453.45	1961.09	1639.02	1454.39	1324.72	1187.95
360.0	7677.53	5424.85	4056.50	3118.38	2343.51	1938.98	1634.24	1447.81	1297.24

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1188.49	1117.38	1065.39	1012.21	971.58	936.33	902.87	877.17	862.23
45.0	1071.97	1027.15	985.33	944.10	911.83	886.14	861.64	848.49	838.93
90.0	1043.82	1004.69	960.41	927.25	898.15	871.74	852.97	840.96	829.85
135.0	1086.91	1035.52	989.51	940.51	908.24	884.34	860.44	848.49	838.33
180.0	1042.99	997.46	936.93	899.82	876.75	859.13	846.10	836.06	825.67
225.0	1152.99	1093.78	1038.09	990.17	939.97	898.15	874.78	861.10	848.97
270.0	1160.40	1097.66	1044.48	999.07	960.23	921.39	887.93	871.20	859.25
315.0	1126.04	1070.35	1019.56	973.67	937.34	903.34	877.53	861.52	848.55
360.0	1188.49	1117.38	1065.39	1012.21	971.58	936.33	902.87	877.17	862.23

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	849.09	838.33	829.97	820.41	812.64	800.09	787.54	752.89	647.72
45.0	827.58	817.42	809.05	797.70	783.96	755.87	668.04	553.31	384.81
90.0	820.95	811.27	800.03	788.38	768.84	696.72	585.04	450.00	274.09
135.0	827.58	817.42	808.46	796.51	783.96	733.77	630.39	498.34	339.99
180.0	816.82	806.90	794.89	782.94	753.01	654.11	531.56	398.61	234.11
225.0	838.87	828.00	817.66	807.62	796.33	780.13	729.28	627.88	457.35
270.0	847.89	837.14	828.18	817.42	806.66	792.92	763.04	678.79	540.76
315.0	838.81	828.59	818.91	810.19	798.30	785.33	756.65	668.75	510.35
360.0	849.09	838.33	829.97	820.41	812.64	800.09	787.54	752.89	647.72

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	504.31	363.90	311.91	87.30	37.41	29.04	26.05	22.71	21.21
45.0	313.70	107.85	43.38	29.22	25.75	22.83	20.55	19.72	19.48
90.0	151.95	64.65	31.43	27.79	24.62	21.81	20.61	20.26	20.14
135.0	314.30	88.26	40.57	30.29	27.07	24.32	22.41	21.45	21.15
180.0	122.49	52.16	34.06	29.76	26.71	24.14	22.83	22.23	21.57
225.0	311.43	181.89	68.95	35.49	31.31	27.43	25.39	23.54	22.83
270.0	381.82	310.72	120.28	43.08	31.97	28.50	25.51	23.54	22.71
315.0	370.53	237.82	112.45	42.60	30.06	26.17	23.30	21.63	20.97
360.0	504.31	363.90	311.91	87.30	37.41	29.04	26.05	22.71	21.21

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	20.79	20.67	20.55	20.38	19.06	11.59	11.41	11.17	11.05
45.0	19.18	19.00	18.34	11.71	11.41	11.23	11.05	10.93	10.88
90.0	20.08	19.90	15.83	11.53	11.35	11.17	11.05	10.93	10.76
135.0	20.73	20.32	19.06	11.71	11.47	11.29	11.17	10.99	10.88
180.0	20.85	19.48	11.47	11.23	11.11	10.93	10.82	10.76	10.58
225.0	22.35	21.75	20.55	17.09	11.53	11.29	11.17	10.99	10.88
270.0	22.47	22.17	21.87	20.44	11.89	11.59	11.35	11.17	11.05
315.0	20.85	20.79	20.61	19.48	11.89	11.59	11.41	11.29	11.05
360.0	20.79	20.67	20.55	20.38	19.06	11.59	11.41	11.17	11.05

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	10.93	10.76	10.70	10.58	10.52	10.46	10.40	10.34	10.34
45.0	10.70	10.64	10.58	10.52	10.46	10.46	10.34	10.34	10.28
90.0	10.70	10.64	10.58	10.46	10.40	10.40	10.34	10.34	10.28
135.0	10.76	10.70	10.64	10.52	10.46	10.40	10.34	10.34	10.28
180.0	10.52	10.46	10.40	10.34	10.28	10.22	10.22	10.16	10.16
225.0	10.76	10.70	10.58	10.52	10.46	10.40	10.34	10.28	10.28
270.0	10.88	10.82	10.70	10.64	10.52	10.52	10.46	10.40	10.34
315.0	10.93	10.82	10.70	10.64	10.58	10.52	10.40	10.40	10.34
360.0	10.93	10.76	10.70	10.58	10.52	10.46	10.40	10.34	10.34

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.28	10.22	10.16	10.16	10.16	10.10	10.10	10.04	10.04
45.0	10.28	10.22	10.22	10.16	10.16	10.10	10.10	10.10	10.04
90.0	10.22	10.16	10.16	10.16	10.10	10.04	10.04	10.04	10.04
135.0	10.22	10.16	10.16	10.10	10.10	10.04	10.10	10.04	9.98
180.0	10.10	10.04	10.04	10.04	10.04	9.98	9.98	9.98	9.98
225.0	10.28	10.22	10.22	10.16	10.10	10.10	10.10	10.10	10.10
270.0	10.28	10.28	10.22	10.16	10.16	10.16	10.10	10.10	10.10
315.0	10.28	10.22	10.22	10.16	10.16	10.10	10.10	10.04	10.04
360.0	10.28	10.22	10.16	10.16	10.16	10.10	10.10	10.04	10.04

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.98	9.98	9.98	9.98	9.92	9.98	9.98	9.92	9.92
45.0	10.04	10.04	10.04	10.04	10.04	10.04	9.98	9.98	9.98
90.0	10.04	9.98	9.98	9.98	9.98	9.92	9.92	9.92	9.92
135.0	9.98	9.98	9.98	9.98	9.92	9.92	9.92	9.92	9.92
180.0	9.98	9.92	9.92	9.92	9.92	9.92	9.86	9.92	9.86
225.0	10.04	10.04	9.98	10.04	9.98	9.98	9.98	9.98	9.98
270.0	10.04	10.04	10.04	9.98	9.98	9.98	9.98	9.98	9.98
315.0	10.04	10.04	9.98	9.98	9.98	9.92	9.92	9.92	9.92
360.0	9.98	9.98	9.98	9.98	9.92	9.98	9.98	9.92	9.92

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.92	9.92	9.92	9.92	9.92	9.86	9.86	9.86	9.86
45.0	9.98	9.98	9.98	9.98	9.98	9.92	9.92	9.92	9.92
90.0	9.98	9.92	9.92	9.92	9.92	9.92	9.86	9.92	9.92
135.0	9.92	9.92	9.92	9.92	9.92	9.86	9.86	9.92	9.86
180.0	9.86	9.86	9.86	9.86	9.86	9.86	9.86	9.92	9.86
225.0	9.98	10.04	9.98	9.98	9.98	9.98	9.92	9.92	9.98
270.0	9.98	9.92	9.98	9.92	9.92	9.92	9.92	9.92	9.92
315.0	9.92	9.92	9.92	9.92	9.92	9.86	9.92	9.86	9.86
360.0	9.92	9.92	9.92	9.92	9.92	9.86	9.86	9.86	9.86

Intensity data(cd)

C/γ(°)	90.0
0.0	9.86
45.0	9.92
90.0	9.92
135.0	9.92
180.0	9.86
225.0	9.98
270.0	9.92
315.0	9.86
360.0	9.86