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NATA

LumCAT: 2-2642-L
Luminaire: 92.70.412.00
LampCAT: LUMINUS CXM-14-AC40
Ballast type: AC

Report No: 20231013-B018	Voltage(V): 34.0600
Test No: 20231013-C018	Current(A): 0.5300
Number of Lamps: 1	Power (W): 18.0510
Lamp flux(lm): 2320.0	PF: 0.0000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2161.55, Efficiency(%): 93.17% , Luminous Efficacy(lm/W): 119.75
Central intensity(cd): 3369.097, Maximum intensity(cd): 3370.273
Angle of maximum intensity: C=0.0 γ=1.0
Beam Angle(50%Imax): [C0/180]Total=48.4
[C90/270]Total=48.4
Field angle(10%Imax): [C0/180]Total=72.4
[C90/270]Total=72.4
Maximum s/h(1/2): C0_180=0.76 C90_270=0.76
Maximum s/h(1/4): C0_180=0.75 C90_270=0.75
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.17%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.092%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3369.097	0.000	0	0.00%	0.00%
1.0	3370.273	3.225	3.225	0.14%	0.15%
2.0	3365.291	9.668	12.892	0.42%	0.60%
3.0	3356.435	16.076	28.968	0.69%	1.34%
4.0	3342.043	22.422	51.39	0.97%	2.38%
5.0	3318.310	28.652	80.043	1.24%	3.70%
6.0	3286.412	34.710	114.752	1.50%	5.31%
7.0	3241.438	40.518	155.271	1.75%	7.18%
8.0	3188.575	46.018	201.289	1.98%	9.31%
9.0	3127.686	51.190	252.479	2.21%	11.68%
10.0	3055.865	55.959	308.438	2.41%	14.27%
11.0	2983.213	60.343	368.781	2.60%	17.06%
12.0	2900.044	64.312	433.093	2.77%	20.04%
13.0	2818.536	67.865	500.958	2.93%	23.18%
14.0	2730.801	71.031	571.989	3.06%	26.46%
15.0	2643.273	73.778	645.767	3.18%	29.88%
16.0	2548.065	76.068	721.834	3.28%	33.39%
17.0	2464.342	78.057	799.891	3.36%	37.01%
18.0	2363.114	79.594	879.485	3.43%	40.69%
19.0	2265.000	80.520	960.005	3.47%	44.41%
20.0	2158.721	80.966	1040.971	3.49%	48.16%
21.0	2053.965	80.892	1121.864	3.49%	51.90%
22.0	1942.358	80.308	1202.171	3.46%	55.62%
23.0	1824.939	79.048	1281.219	3.41%	59.27%
24.0	1711.810	77.326	1358.545	3.33%	62.85%
25.0	1593.907	75.165	1433.71	3.24%	66.33%
26.0	1456.374	72.002	1505.712	3.10%	69.66%
27.0	1320.771	67.943	1573.656	2.93%	72.80%
28.0	1204.397	63.932	1637.588	2.76%	75.76%
29.0	1108.601	60.515	1698.102	2.61%	78.56%
30.0	995.016	56.797	1754.9	2.45%	81.19%
31.0	873.141	51.988	1806.888	2.24%	83.59%
32.0	754.034	46.617	1853.504	2.01%	85.75%
33.0	633.896	40.889	1894.393	1.76%	87.64%
34.0	530.786	35.247	1929.64	1.52%	89.27%
35.0	432.990	29.931	1959.571	1.29%	90.66%
36.0	353.225	25.033	1984.604	1.08%	91.81%
37.0	285.915	20.845	2005.45	0.90%	92.78%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	242.995	17.654	2023.104	0.76%	93.59%
39.0	192.298	14.858	2037.962	0.64%	94.28%
40.0	148.541	11.887	2049.849	0.51%	94.83%
41.0	108.659	9.159	2059.008	0.39%	95.26%
42.0	88.206	7.152	2066.16	0.31%	95.59%
43.0	73.427	5.987	2072.148	0.26%	95.86%
44.0	62.197	5.119	2077.266	0.22%	96.10%
45.0	54.101	4.469	2081.736	0.19%	96.31%
46.0	47.659	3.980	2085.715	0.17%	96.49%
47.0	42.512	3.586	2089.302	0.15%	96.66%
48.0	38.734	3.284	2092.586	0.14%	96.81%
49.0	35.087	3.031	2095.618	0.13%	96.95%
50.0	32.410	2.814	2098.432	0.12%	97.08%
51.0	29.988	2.640	2101.072	0.11%	97.20%
52.0	28.057	2.491	2103.563	0.11%	97.32%
53.0	26.418	2.370	2105.932	0.10%	97.43%
54.0	24.999	2.266	2108.198	0.10%	97.53%
55.0	23.816	2.179	2110.377	0.09%	97.63%
56.0	22.736	2.104	2112.481	0.09%	97.73%
57.0	21.816	2.037	2114.518	0.09%	97.82%
58.0	20.972	1.979	2116.497	0.09%	97.92%
59.0	20.239	1.927	2118.423	0.08%	98.00%
60.0	19.547	1.880	2120.303	0.08%	98.09%
61.0	18.945	1.837	2122.14	0.08%	98.18%
62.0	18.377	1.798	2123.938	0.08%	98.26%
63.0	17.831	1.761	2125.699	0.08%	98.34%
64.0	17.353	1.726	2127.426	0.07%	98.42%
65.0	16.890	1.695	2129.12	0.07%	98.50%
66.0	16.433	1.663	2130.783	0.07%	98.58%
67.0	16.025	1.632	2132.415	0.07%	98.65%
68.0	15.603	1.602	2134.017	0.07%	98.73%
69.0	15.201	1.571	2135.589	0.07%	98.80%
70.0	14.821	1.542	2137.131	0.07%	98.87%
71.0	14.420	1.511	2138.642	0.07%	98.94%
72.0	14.046	1.480	2140.122	0.06%	99.01%
73.0	13.686	1.450	2141.572	0.06%	99.08%
74.0	13.319	1.420	2142.992	0.06%	99.14%
75.0	12.946	1.388	2144.38	0.06%	99.21%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.614	1.357	2145.737	0.06%	99.27%
77.0	12.240	1.325	2147.062	0.06%	99.33%
78.0	11.880	1.291	2148.353	0.06%	99.39%
79.0	11.520	1.257	2149.61	0.05%	99.45%
80.0	11.181	1.224	2150.834	0.05%	99.50%
81.0	10.849	1.191	2152.025	0.05%	99.56%
82.0	10.545	1.160	2153.186	0.05%	99.61%
83.0	10.233	1.130	2154.315	0.05%	99.67%
84.0	9.977	1.101	2155.416	0.05%	99.72%
85.0	9.721	1.075	2156.491	0.05%	99.77%
86.0	9.521	1.052	2157.543	0.05%	99.81%
87.0	9.306	1.030	2158.573	0.04%	99.86%
88.0	9.133	1.010	2159.584	0.04%	99.91%
89.0	8.960	0.992	2160.575	0.04%	99.95%
90.0	8.891	0.979	2161.554	0.04%	100.00%

Zonal flux distribution table

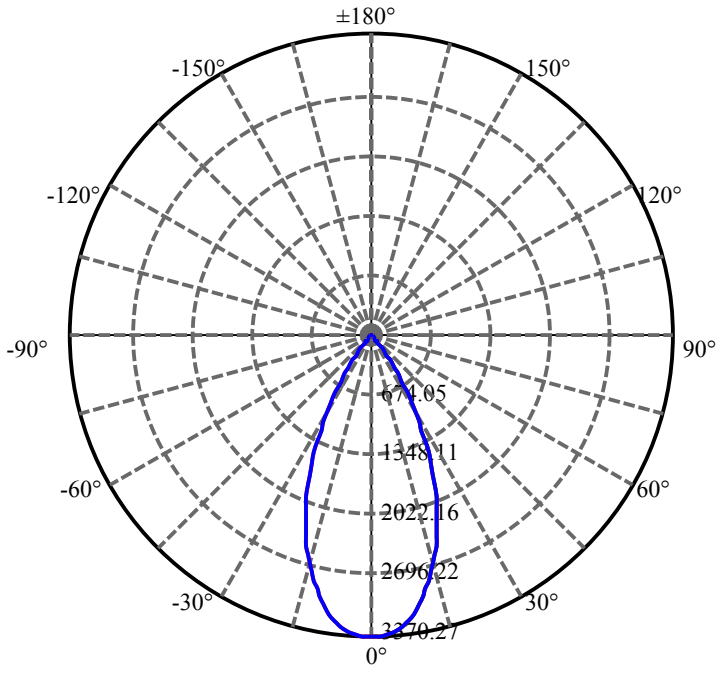
ZONAL LUMEN SUMMARY

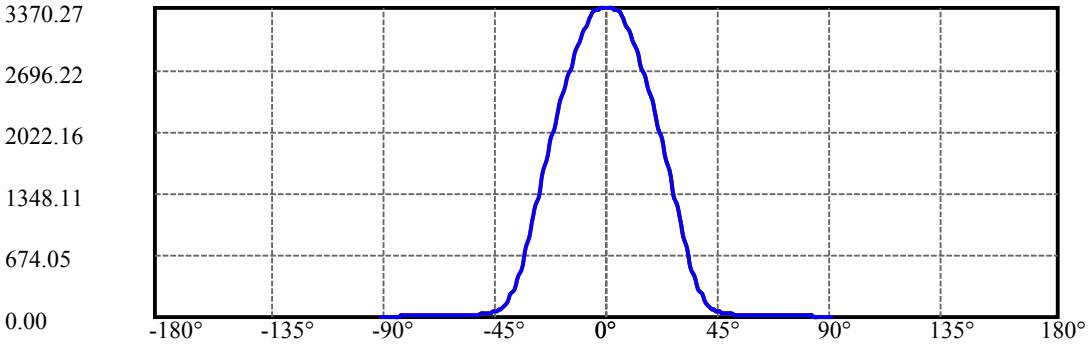
Zone	Lumens	%Lamp	%Fixt
0-30	1754.90	75.64%	81.19%
0-40	2049.85	88.36%	94.83%
0-60	2120.30	91.39%	98.09%
0-90	2160.58	93.13%	99.95%
0-120	2160.58	93.13%	99.95%
0-180	2161.55	93.17%	100.00%
60-90	40.27	1.74%	1.86%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.55	1729.24	74.54%	80.00%

ZONAL LUMEN SUMMARY

0-10	308.44
10-20	732.53
20-30	713.93
30-40	294.95
40-50	48.58
50-60	21.87
60-70	16.83
70-80	13.70
80-90	9.74
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:

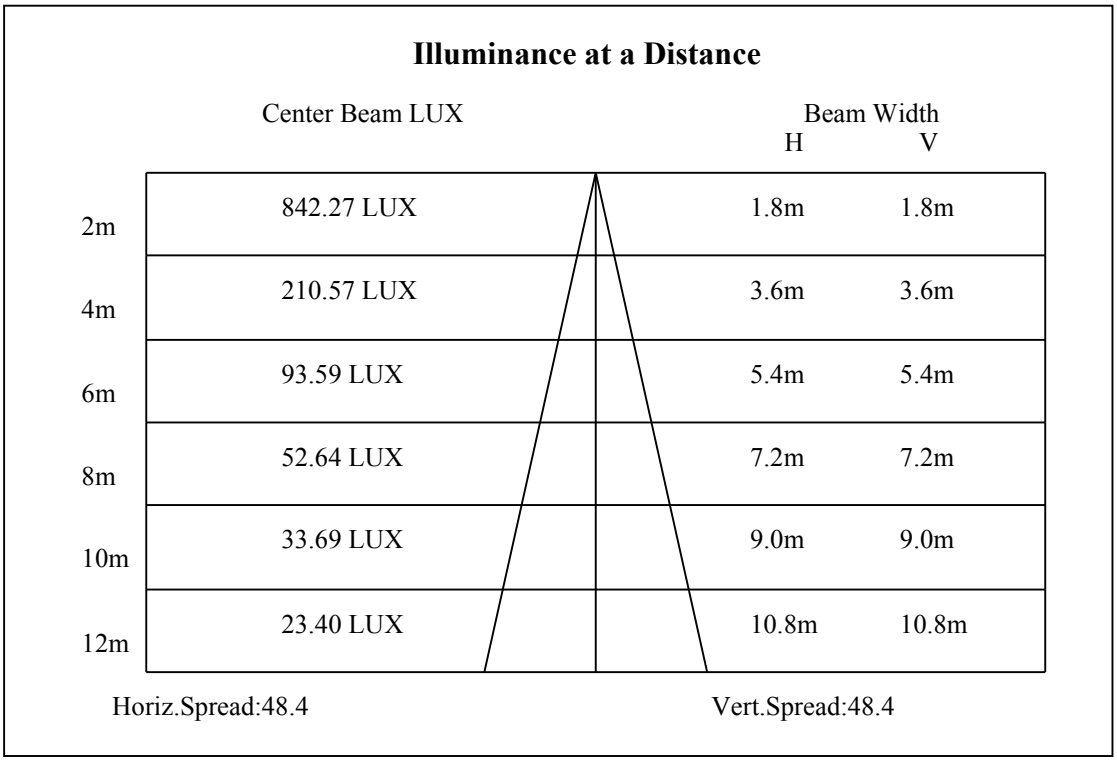
C90/C270:

Field angle(10%Imax):C0/180Left:37.2 Right:35.2
:C90/270Left:37.2 Right:35.2

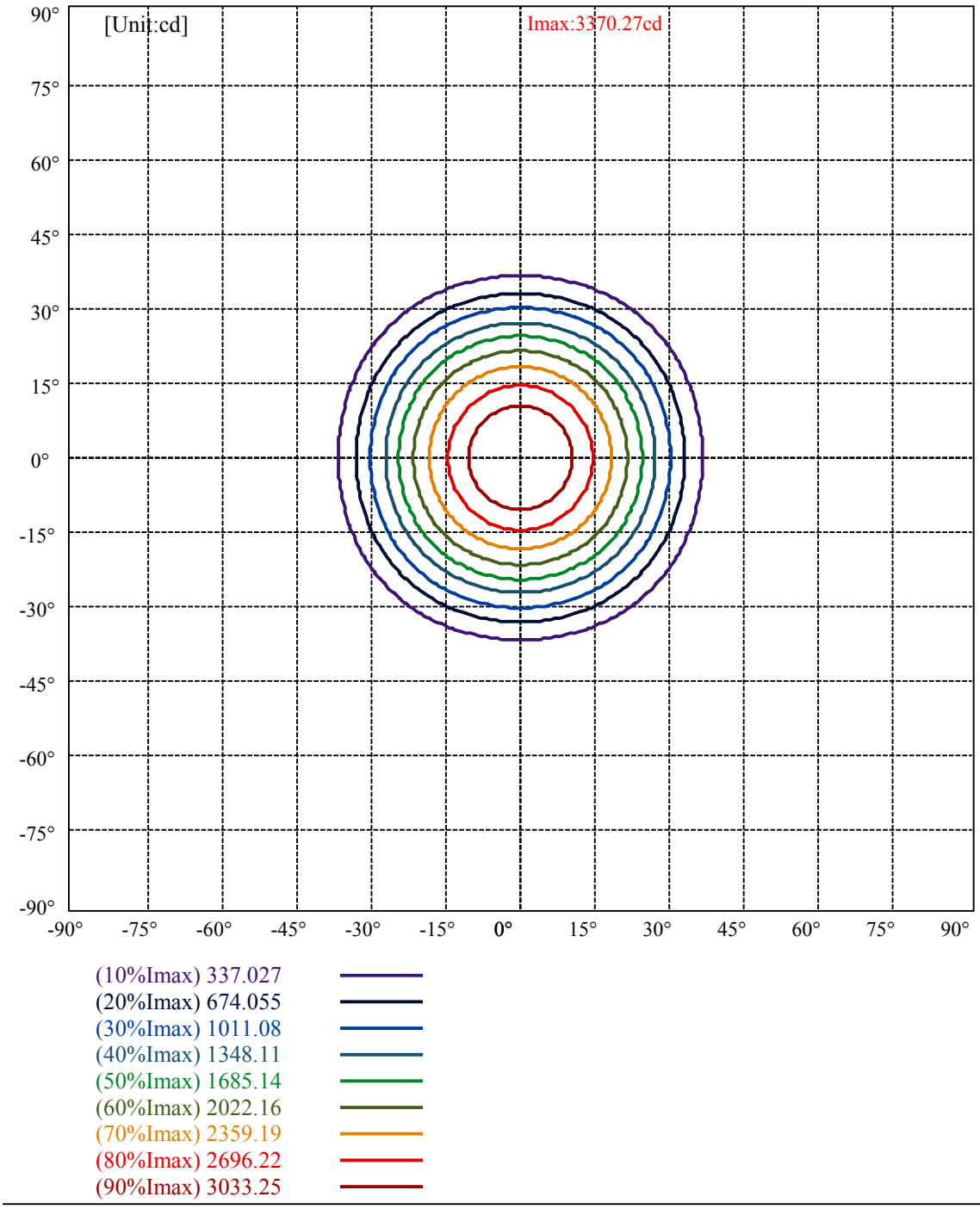
Beam Angle(50%Imax):C0/180Left:25.2 Right:23.2
:C90/270Left:25.2 Right:23.2

Equipment: GMS1980 Date: 2023/10/13 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

Lux distance Curve



ISO-Intensity(V-H)



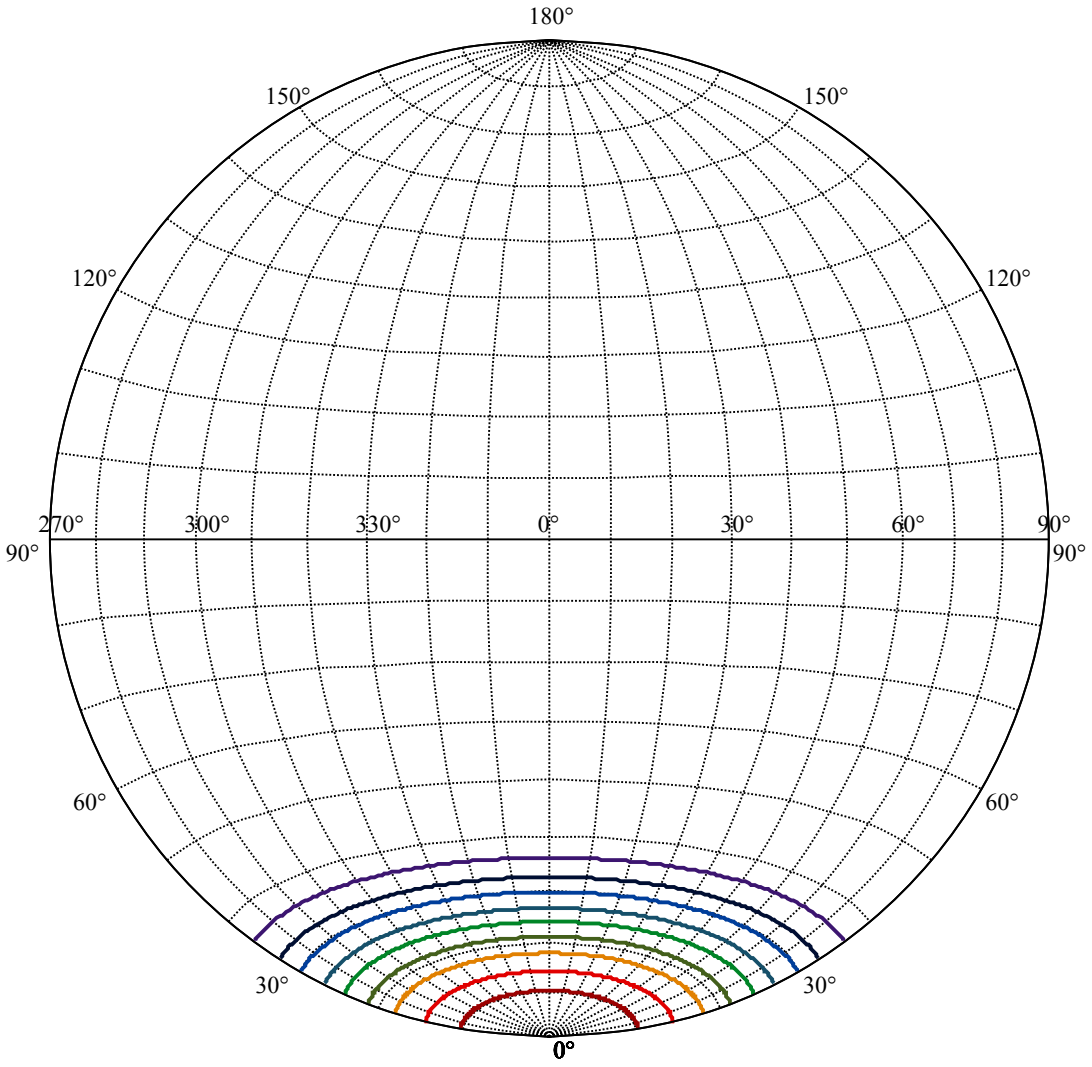
(10%Imax) 337.027
(20%Imax) 674.055
(30%Imax) 1011.08
(40%Imax) 1348.11
(50%Imax) 1685.14
(60%Imax) 2022.16
(70%Imax) 2359.19
(80%Imax) 2696.22
(90%Imax) 3033.25

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:3370.27

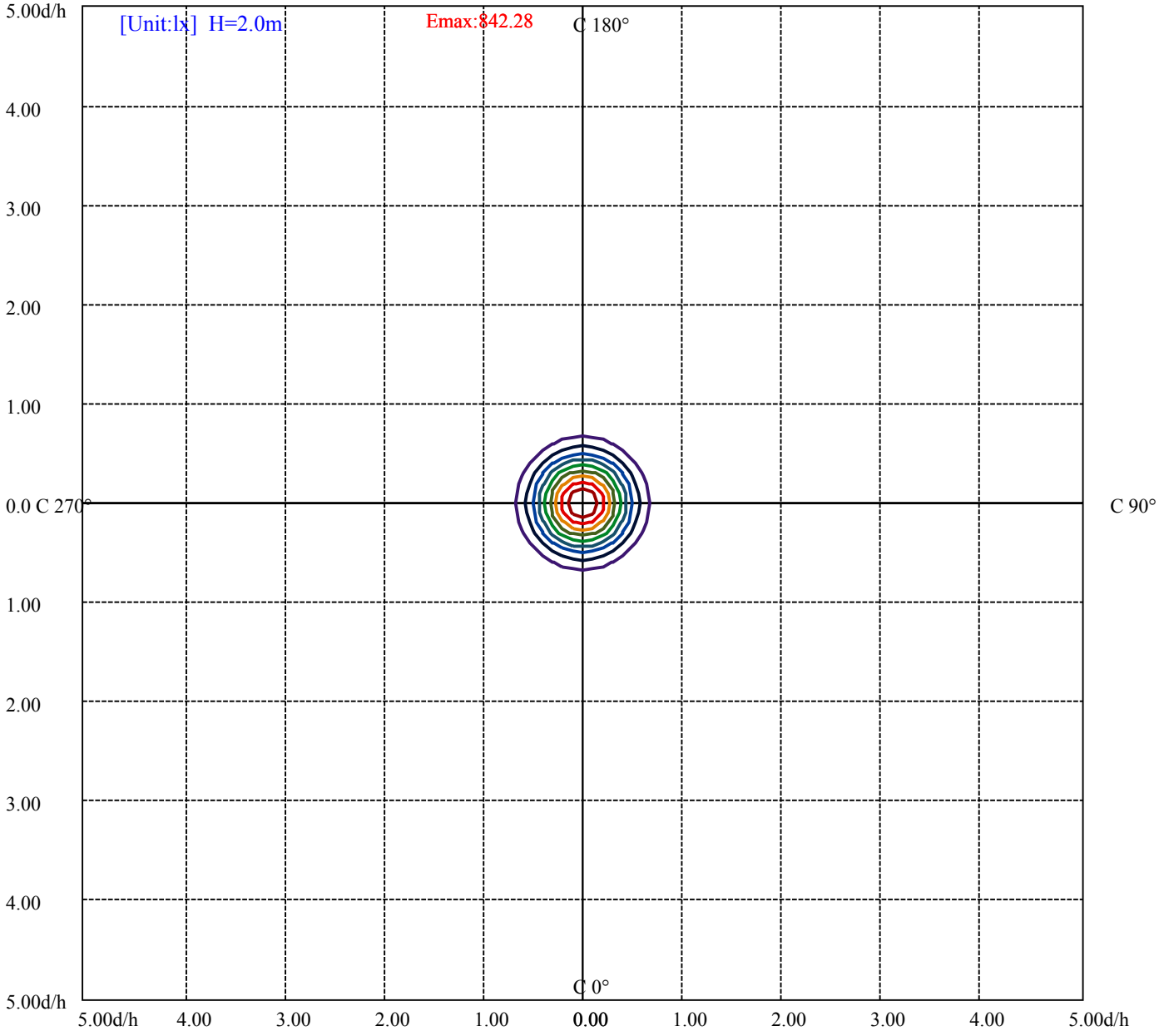
(10%Imax) 337.027
(20%Imax) 674.055
(30%Imax) 1011.08
(40%Imax) 1348.11
(50%Imax) 1685.14
(60%Imax) 2022.16
(70%Imax) 2359.19
(80%Imax) 2696.22
(90%Imax) 3033.25

Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

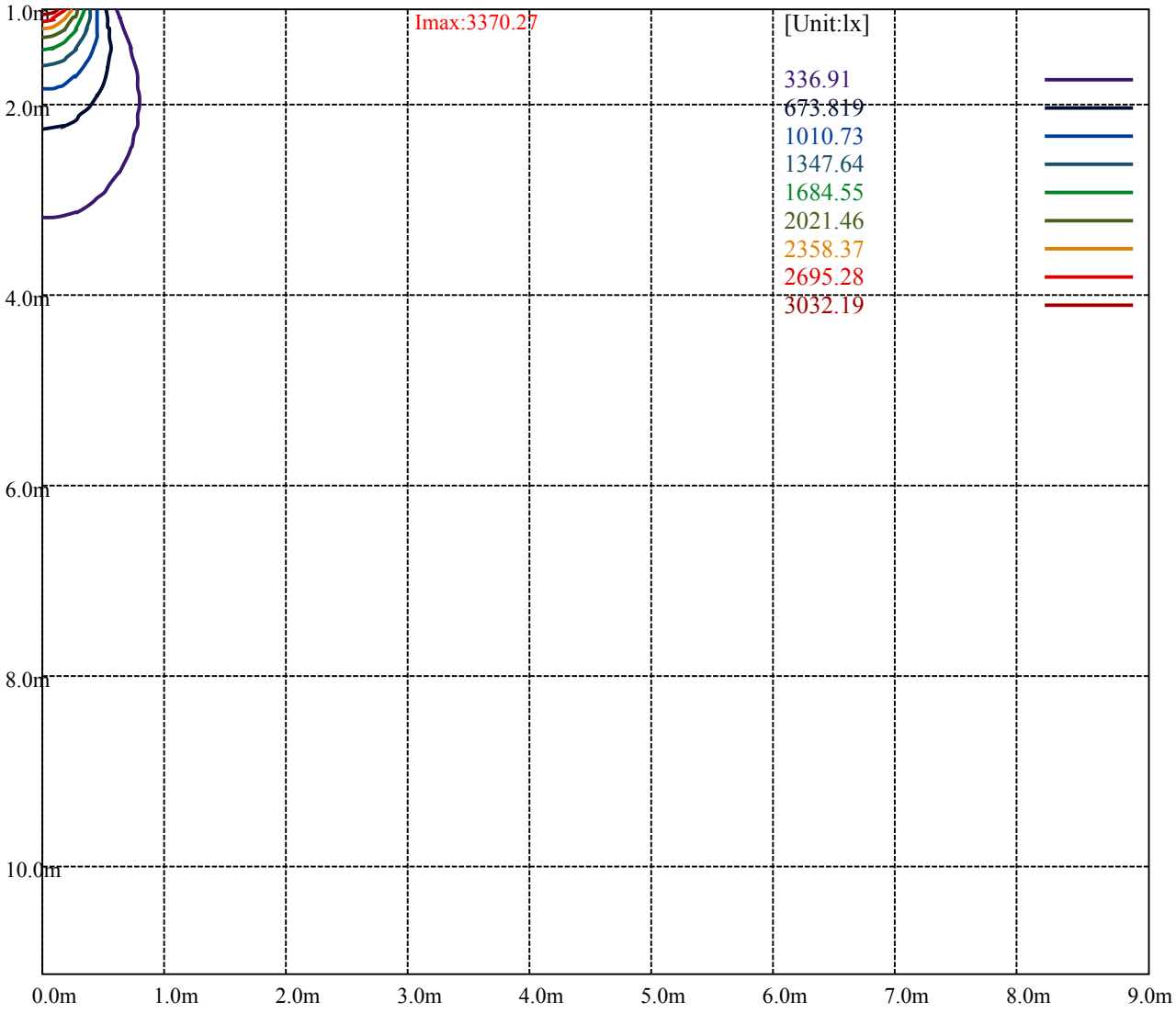
ISO illuminance diagram



(10%Emax) 84.2275
(20%Emax) 168.4547
(30%Emax) 252.6825
(40%Emax) 336.91
(50%Emax) 421.1375
(60%Emax) 505.365
(70%Emax) 589.5925
(80%Emax) 673.82
(90%Emax) 758.0475

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

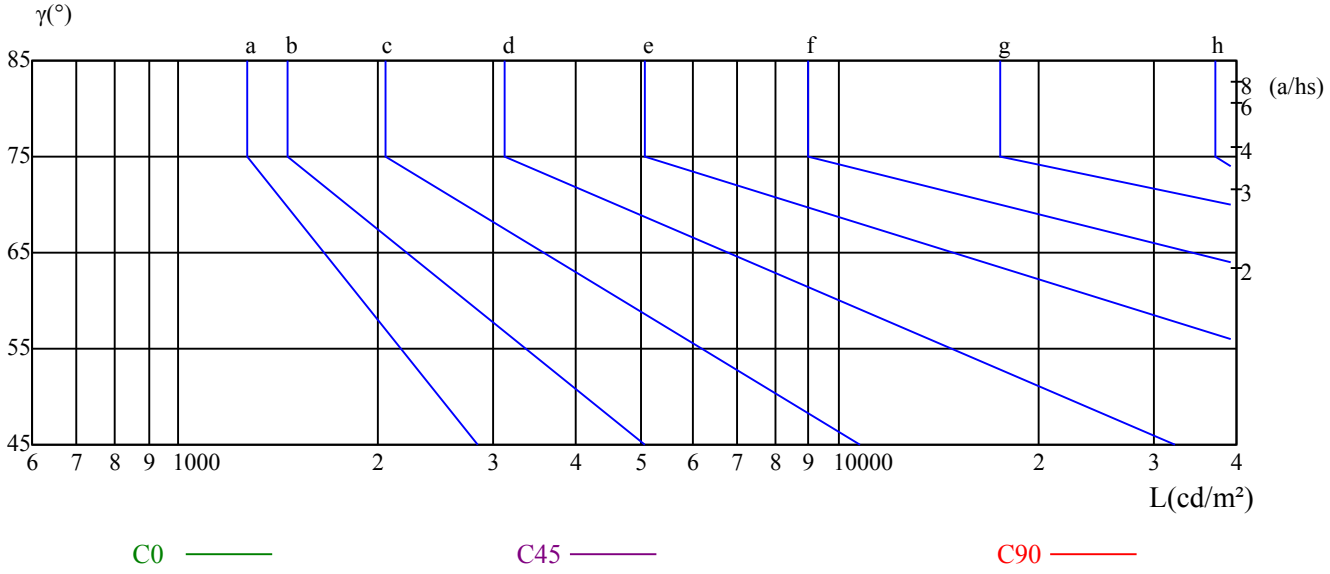
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

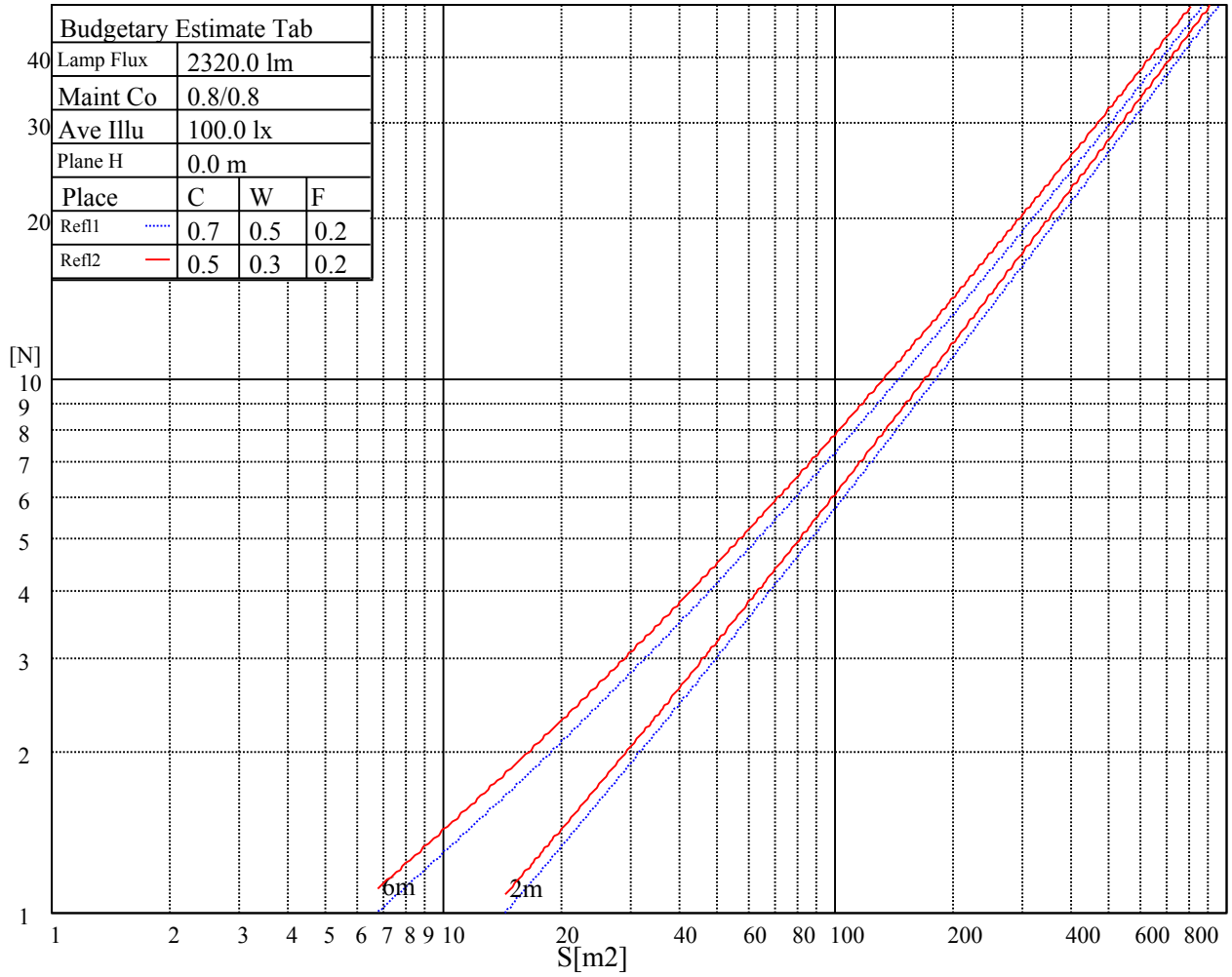
Luminance Limitting Curve



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

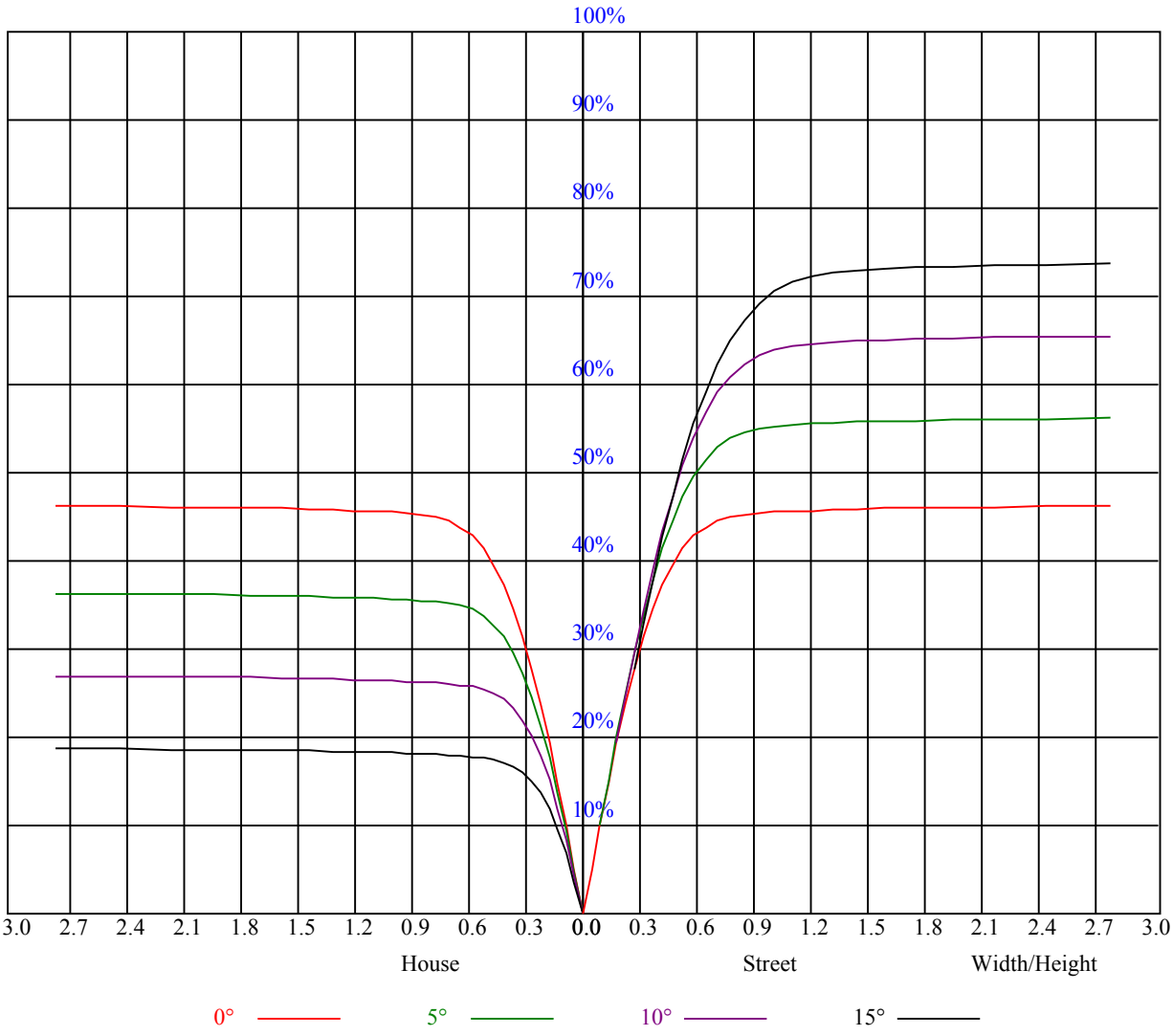


Equipment: GMS1980 Date: 2023/10/13 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.11	1.11	1.11	1.08	1.08	1.08	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.03	1.01	0.99	1.01	0.99	0.97	0.98	0.96	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.87
2	0.97	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.82
3	0.91	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.80	0.78	0.77
4	0.85	0.81	0.77	0.84	0.80	0.76	0.82	0.79	0.76	0.81	0.77	0.75	0.79	0.76	0.74	0.72
5	0.81	0.76	0.72	0.80	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.70	0.68
6	0.76	0.71	0.67	0.76	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.65
7	0.72	0.67	0.64	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.68	0.65	0.62	0.61
8	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.58
9	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.63	0.59	0.56	0.55
10	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.52

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	3360.52	3356.64	3340.59	3323.43	3294.09	3245.38	3208.29	3140.21	3054.41
45.0	3367.16	3375.46	3380.44	3378.78	3361.62	3345.57	3307.38	3258.11	3213.83
90.0	3379.89	3384.32	3385.43	3377.68	3366.05	3342.25	3301.29	3253.68	3203.87
135.0	3368.82	3379.34	3375.46	3377.12	3372.14	3354.43	3342.80	3301.29	3258.11
180.0	3360.52	3372.14	3371.03	3366.05	3368.27	3362.18	3348.34	3323.98	3291.33
225.0	3367.16	3367.16	3359.96	3352.77	3332.29	3309.59	3285.79	3236.52	3182.28
270.0	3379.89	3373.25	3358.86	3349.45	3337.27	3309.59	3279.15	3237.08	3182.83
315.0	3368.82	3353.87	3350.55	3326.20	3304.61	3277.49	3218.26	3180.62	3121.94
360.0	3360.52	3356.64	3340.59	3323.43	3294.09	3245.38	3208.29	3140.21	3054.41

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2986.33	2916.03	2846.28	2755.50	2684.10	2607.15	2516.37	2415.63	2327.07
45.0	3149.62	3071.02	3001.27	2922.12	2830.78	2747.75	2670.81	2555.12	2463.79
90.0	3120.28	3053.30	2965.29	2867.87	2782.07	2679.11	2592.21	2501.43	2409.54
135.0	3210.51	3141.87	3057.73	2978.58	2896.65	2811.41	2697.93	2611.03	2520.25
180.0	3242.06	3191.69	3126.37	3045.00	2953.11	2875.62	2772.66	2682.44	2608.82
225.0	3120.28	3027.84	2959.76	2877.83	2803.66	2694.61	2617.67	2542.39	2461.57
270.0	3137.44	3074.34	3008.47	2923.78	2841.85	2764.91	2683.54	2586.12	2515.27
315.0	3054.97	2970.83	2900.53	2829.68	2756.06	2665.83	2594.98	2490.36	2408.44
360.0	2986.33	2916.03	2846.28	2755.50	2684.10	2607.15	2516.37	2415.63	2327.07

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2214.14	2117.28	2012.66	1882.58	1772.42	1661.16	1548.24	1408.20	1087.31
45.0	2384.63	2293.30	2170.41	2071.89	1970.03	1858.77	1716.52	1602.49	1485.69
90.0	2291.09	2188.68	2086.83	1981.66	1873.72	1733.67	1616.88	1476.28	1365.02
135.0	2409.54	2309.91	2185.36	2083.51	1972.25	1869.84	1732.01	1620.20	1507.83
180.0	2509.18	2413.97	2320.98	2229.64	2101.22	1991.07	1898.63	1796.22	1664.48
225.0	2349.21	2256.77	2160.45	2043.10	1940.70	1814.49	1713.75	1610.24	1513.37
270.0	2423.38	2333.15	2221.89	2128.35	2003.80	1891.43	1795.12	1670.02	1565.95
315.0	2323.74	2206.95	2111.19	2011.00	1904.72	1779.06	1673.34	1567.61	1461.34
360.0	2214.14	2117.28	2012.66	1882.58	1772.42	1661.16	1548.24	1408.20	1087.31

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1087.31	1058.36	907.97	791.94	678.97	572.58	455.39	374.74	286.12
45.0	1337.34	1222.21	1109.29	963.15	845.80	732.33	593.94	494.31	406.85
90.0	1098.88	1098.88	982.19	867.83	725.96	619.74	521.10	413.27	337.44
135.0	1393.80	1253.76	1143.05	1030.68	917.76	774.95	665.35	541.91	452.79
180.0	1559.86	1451.37	1314.09	1203.94	1089.36	945.44	829.75	716.28	584.53
225.0	1386.05	1104.25	1104.25	1047.73	908.96	795.27	685.44	581.99	467.41
270.0	1462.44	1353.95	1215.57	1110.39	993.04	877.35	734.54	631.03	536.38
315.0	1240.47	1092.40	1092.40	944.44	825.27	714.61	585.64	492.76	392.40
360.0	1087.31	1058.36	907.97	791.94	678.97	572.58	455.39	374.74	286.12

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	229.27	182.89	138.33	112.15	92.83	78.05	64.32	56.07	49.76
45.0	328.25	293.93	293.93	151.45	121.50	94.82	79.54	67.64	56.79
90.0	272.01	217.87	173.59	131.85	107.05	88.62	71.57	61.61	54.08
135.0	370.87	283.41	283.41	213.61	139.49	107.99	89.84	75.50	65.04
180.0	489.88	402.97	326.03	291.71	291.71	148.29	117.90	90.84	75.72
225.0	384.49	292.32	232.32	183.17	136.61	109.49	89.56	74.84	61.77
270.0	429.54	353.16	286.18	286.18	170.54	137.22	105.89	87.57	73.40
315.0	321.49	260.77	210.18	168.27	128.59	104.78	87.02	73.34	61.00
360.0	229.27	182.89	138.33	112.15	92.83	78.05	64.32	56.07	49.76

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	44.73	39.63	36.37	33.54	30.72	28.84	27.29	25.52	24.41
45.0	50.32	45.11	39.85	36.42	32.82	30.44	28.51	27.01	25.30
90.0	46.77	42.23	37.64	34.65	31.99	30.00	28.12	26.35	25.02
135.0	55.46	49.43	44.50	40.41	36.20	33.38	30.56	28.73	27.18
180.0	64.43	54.69	48.66	43.78	38.80	35.65	32.22	29.95	28.06
225.0	54.36	48.43	42.68	38.80	35.54	32.77	29.89	28.01	26.40
270.0	62.94	53.64	47.88	43.34	39.47	35.54	32.88	30.67	28.29
315.0	53.80	48.10	42.51	38.91	35.15	32.66	30.44	28.23	26.68
360.0	44.73	39.63	36.37	33.54	30.72	28.84	27.29	25.52	24.41

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	23.14	22.20	21.37	20.65	19.82	19.26	18.65	18.16	17.55
45.0	24.19	23.25	22.31	21.31	20.54	19.87	19.15	18.60	18.10
90.0	23.91	22.92	21.81	21.03	20.31	19.54	18.99	18.32	17.82
135.0	25.46	24.30	23.30	22.25	21.42	20.70	19.98	19.26	18.71
180.0	26.46	24.80	23.69	22.75	21.86	20.92	20.26	19.65	19.04
225.0	24.74	23.58	22.64	21.59	20.81	20.15	19.37	18.82	18.32
270.0	26.74	25.35	23.86	22.92	21.75	20.98	20.26	19.65	18.93
315.0	25.35	24.13	22.92	22.03	21.26	20.48	19.71	19.10	18.54
360.0	23.14	22.20	21.37	20.65	19.82	19.26	18.65	18.16	17.55

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.10	16.77	16.33	15.83	15.44	15.00	14.61	14.28	13.78
45.0	17.55	17.10	16.72	16.22	15.83	15.50	15.11	14.67	14.28
90.0	17.38	16.88	16.44	16.05	15.67	15.22	14.83	14.50	14.12
135.0	18.21	17.66	17.16	16.72	16.27	15.89	15.50	15.06	14.67
180.0	18.38	17.93	17.33	16.94	16.50	16.05	15.67	15.33	14.89
225.0	17.82	17.21	16.83	16.44	16.05	15.55	15.17	14.78	14.39
270.0	18.32	17.88	17.38	16.83	16.44	16.00	15.55	15.17	14.78
315.0	17.88	17.38	16.94	16.44	16.00	15.61	15.17	14.78	14.45
360.0	17.10	16.77	16.33	15.83	15.44	15.00	14.61	14.28	13.78

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.45	13.12	12.79	12.34	12.01	11.68	11.35	11.02	10.68
45.0	13.95	13.62	13.17	12.84	12.57	12.12	11.79	11.40	11.07
90.0	13.67	13.40	13.06	12.62	12.29	11.96	11.57	11.24	10.79
135.0	14.28	13.95	13.51	13.17	12.84	12.51	12.12	11.79	11.46
180.0	14.56	14.17	13.78	13.45	13.06	12.73	12.40	11.96	11.68
225.0	14.06	13.62	13.28	12.95	12.68	12.23	11.85	11.57	11.24
270.0	14.34	14.00	13.67	13.23	12.90	12.57	12.18	11.73	11.46
315.0	14.06	13.62	13.28	12.95	12.57	12.12	11.79	11.46	11.07
360.0	13.45	13.12	12.79	12.34	12.01	11.68	11.35	11.02	10.68

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.41	10.13	9.85	9.69	9.41	9.24	9.02	8.86	8.86
45.0	10.79	10.41	10.13	9.91	9.63	9.47	9.19	9.08	8.86
90.0	10.52	10.30	9.96	9.74	9.58	9.35	9.13	8.91	8.86
135.0	11.02	10.74	10.35	10.07	9.85	9.63	9.41	9.24	8.97
180.0	11.24	10.96	10.57	10.30	9.96	9.74	9.52	9.35	9.19
225.0	10.85	10.57	10.30	9.96	9.74	9.52	9.35	9.19	8.97
270.0	11.18	10.79	10.52	10.19	9.91	9.69	9.52	9.30	9.08
315.0	10.79	10.46	10.19	9.96	9.69	9.52	9.30	9.13	8.91
360.0	10.41	10.13	9.85	9.69	9.41	9.24	9.02	8.86	8.86

Intensity data(cd)

C/γ(°)	90.0
0.0	8.91
45.0	8.86
90.0	8.86
135.0	8.91
180.0	8.97
225.0	8.86
270.0	8.91
315.0	8.86
360.0	8.91