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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-B017	Voltage(V): 34.0300
Test No: 20231013-C017	Current(A): 0.5300
Number of Lamps: 1	Power (W): 18.0350
Lamp flux(lm): 2320.0	PF: 0.0000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2154.74, Efficiency(%): 92.88% , Luminous Efficacy(lm/W): 119.48
Central intensity(cd): 3350.692, Maximum intensity(cd): 3350.692
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=48.6
[C90/270]Total=48.6
Field angle(10%Imax): [C0/180]Total=72.0
[C90/270]Total=72.0
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(%): 92.88%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.893%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3350.692	0.000	0	0.00%	0.00%
1.0	3347.993	3.205	3.205	0.14%	0.15%
2.0	3345.641	9.607	12.813	0.41%	0.59%
3.0	3336.438	15.981	28.794	0.69%	1.34%
4.0	3322.600	22.290	51.084	0.96%	2.37%
5.0	3295.892	28.472	79.556	1.23%	3.69%
6.0	3265.378	34.481	114.037	1.49%	5.29%
7.0	3223.102	40.274	154.311	1.74%	7.16%
8.0	3164.289	45.713	200.025	1.97%	9.28%
9.0	3103.815	50.800	250.824	2.19%	11.64%
10.0	3031.509	55.522	306.347	2.39%	14.22%
11.0	2952.630	59.794	366.14	2.58%	16.99%
12.0	2877.349	63.730	429.87	2.75%	19.95%
13.0	2791.966	67.280	497.151	2.90%	23.07%
14.0	2707.414	70.392	567.543	3.03%	26.34%
15.0	2623.276	73.182	640.725	3.15%	29.74%
16.0	2535.264	75.587	716.312	3.26%	33.24%
17.0	2443.446	77.532	793.844	3.34%	36.84%
18.0	2350.798	79.047	872.89	3.41%	40.51%
19.0	2256.005	80.149	953.039	3.45%	44.23%
20.0	2153.186	80.700	1033.74	3.48%	47.98%
21.0	2048.844	80.687	1114.427	3.48%	51.72%
22.0	1938.068	80.119	1194.546	3.45%	55.44%
23.0	1827.499	79.012	1273.558	3.41%	59.11%
24.0	1710.149	77.346	1350.903	3.33%	62.69%
25.0	1607.053	75.426	1426.329	3.25%	66.20%
26.0	1469.389	72.620	1498.949	3.13%	69.57%
27.0	1332.465	68.548	1567.497	2.95%	72.75%
28.0	1199.935	64.115	1631.612	2.76%	75.72%
29.0	1111.514	60.474	1692.086	2.61%	78.53%
30.0	981.184	56.502	1748.588	2.44%	81.15%
31.0	862.430	51.305	1799.893	2.21%	83.53%
32.0	739.220	45.885	1845.779	1.98%	85.66%
33.0	622.804	40.126	1885.905	1.73%	87.52%
34.0	510.485	34.297	1920.201	1.48%	89.12%
35.0	416.328	28.783	1948.985	1.24%	90.45%
36.0	331.264	23.803	1972.788	1.03%	91.56%
37.0	262.452	19.364	1992.152	0.83%	92.45%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	205.466	15.618	2007.77	0.67%	93.18%
39.0	169.437	12.796	2020.567	0.55%	93.77%
40.0	117.447	10.005	2030.572	0.43%	94.24%
41.0	100.951	7.777	2038.349	0.34%	94.60%
42.0	87.991	6.865	2045.214	0.30%	94.92%
43.0	77.855	6.143	2051.357	0.26%	95.20%
44.0	69.545	5.563	2056.921	0.24%	95.46%
45.0	62.902	5.090	2062.011	0.22%	95.70%
46.0	56.855	4.683	2066.694	0.20%	95.91%
47.0	51.583	4.313	2071.007	0.19%	96.11%
48.0	47.307	3.998	2075.005	0.17%	96.30%
49.0	43.563	3.732	2078.736	0.16%	96.47%
50.0	40.152	3.490	2082.227	0.15%	96.63%
51.0	37.405	3.281	2085.508	0.14%	96.79%
52.0	35.115	3.112	2088.62	0.13%	96.93%
53.0	33.164	2.970	2091.59	0.13%	97.07%
54.0	31.247	2.839	2094.429	0.12%	97.20%
55.0	29.649	2.718	2097.147	0.12%	97.33%
56.0	28.203	2.614	2099.761	0.11%	97.45%
57.0	26.860	2.518	2102.279	0.11%	97.57%
58.0	25.677	2.430	2104.708	0.10%	97.68%
59.0	24.598	2.350	2107.059	0.10%	97.79%
60.0	23.601	2.277	2109.336	0.10%	97.89%
61.0	22.681	2.209	2111.545	0.10%	98.00%
62.0	21.830	2.145	2113.689	0.09%	98.10%
63.0	21.034	2.085	2115.774	0.09%	98.19%
64.0	20.273	2.027	2117.801	0.09%	98.29%
65.0	19.581	1.972	2119.773	0.09%	98.38%
66.0	18.945	1.922	2121.696	0.08%	98.47%
67.0	18.287	1.872	2123.568	0.08%	98.55%
68.0	17.720	1.824	2125.392	0.08%	98.64%
69.0	17.132	1.778	2127.17	0.08%	98.72%
70.0	16.585	1.732	2128.901	0.07%	98.80%
71.0	16.053	1.687	2130.588	0.07%	98.88%
72.0	15.534	1.642	2132.231	0.07%	98.96%
73.0	15.035	1.599	2133.829	0.07%	99.03%
74.0	14.516	1.554	2135.383	0.07%	99.10%
75.0	14.046	1.509	2136.892	0.07%	99.17%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.555	1.465	2138.357	0.06%	99.24%
77.0	13.070	1.420	2139.777	0.06%	99.31%
78.0	12.634	1.376	2141.153	0.06%	99.37%
79.0	12.192	1.334	2142.487	0.06%	99.43%
80.0	11.728	1.290	2143.776	0.06%	99.49%
81.0	11.334	1.247	2145.023	0.05%	99.55%
82.0	10.918	1.207	2146.23	0.05%	99.61%
83.0	10.524	1.166	2147.396	0.05%	99.66%
84.0	10.220	1.130	2148.526	0.05%	99.71%
85.0	9.929	1.100	2149.625	0.05%	99.76%
86.0	9.673	1.071	2150.697	0.05%	99.81%
87.0	9.424	1.045	2151.742	0.05%	99.86%
88.0	9.175	1.019	2152.761	0.04%	99.91%
89.0	8.988	0.996	2153.756	0.04%	99.95%
90.0	8.884	0.980	2154.736	0.04%	100.00%

Zonal flux distribution table

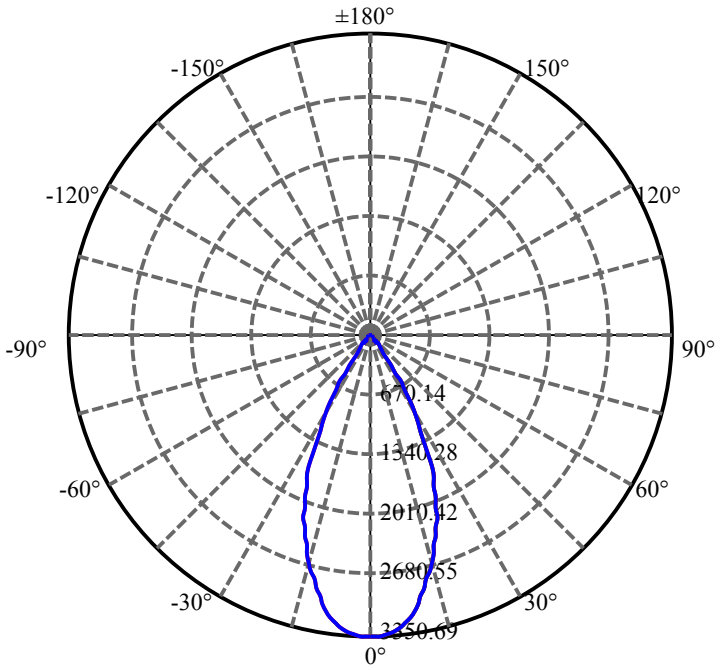
ZONAL LUMEN SUMMARY

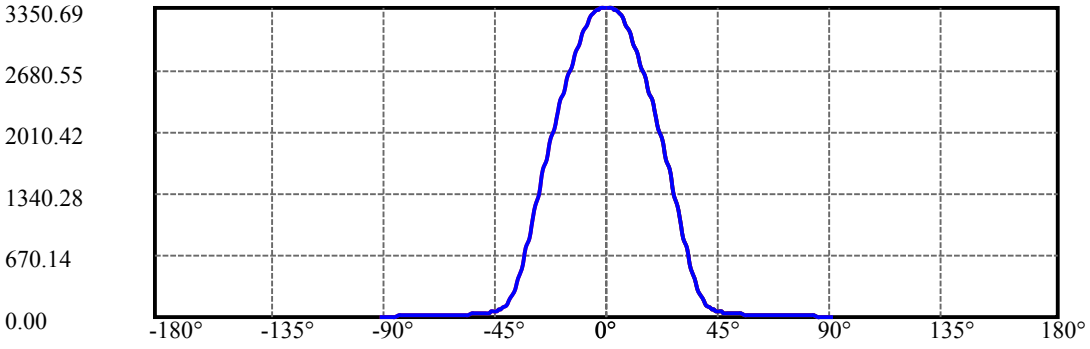
Zone	Lumens	%Lamp	%Fixt
0-30	1748.59	75.37%	81.15%
0-40	2030.57	87.53%	94.24%
0-60	2109.34	90.92%	97.89%
0-90	2153.76	92.84%	99.95%
0-120	2153.76	92.84%	99.95%
0-180	2154.74	92.88%	100.00%
60-90	44.42	1.91%	2.06%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.56	1723.79	74.30%	80.00%

ZONAL LUMEN SUMMARY

0-10	306.35
10-20	727.39
20-30	714.85
30-40	281.98
40-50	51.65
50-60	27.11
60-70	19.57
70-80	14.87
80-90	9.98
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:36.0 Right:36.0
:C90/270Left:36.0 Right:36.0

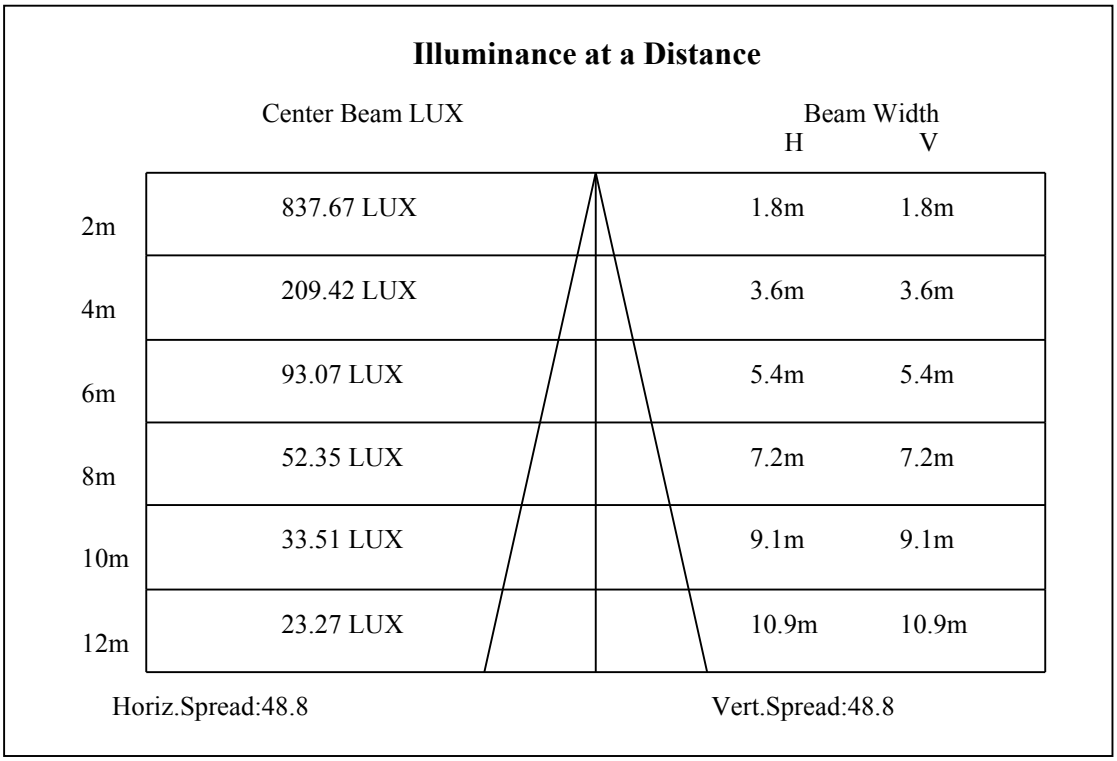
Beam Angle(50%Imax):C0/180Left:24.3 Right:24.3
:C90/270Left:24.3 Right:24.3

Equipment: GMS1980
Temperature(°C): 0.0

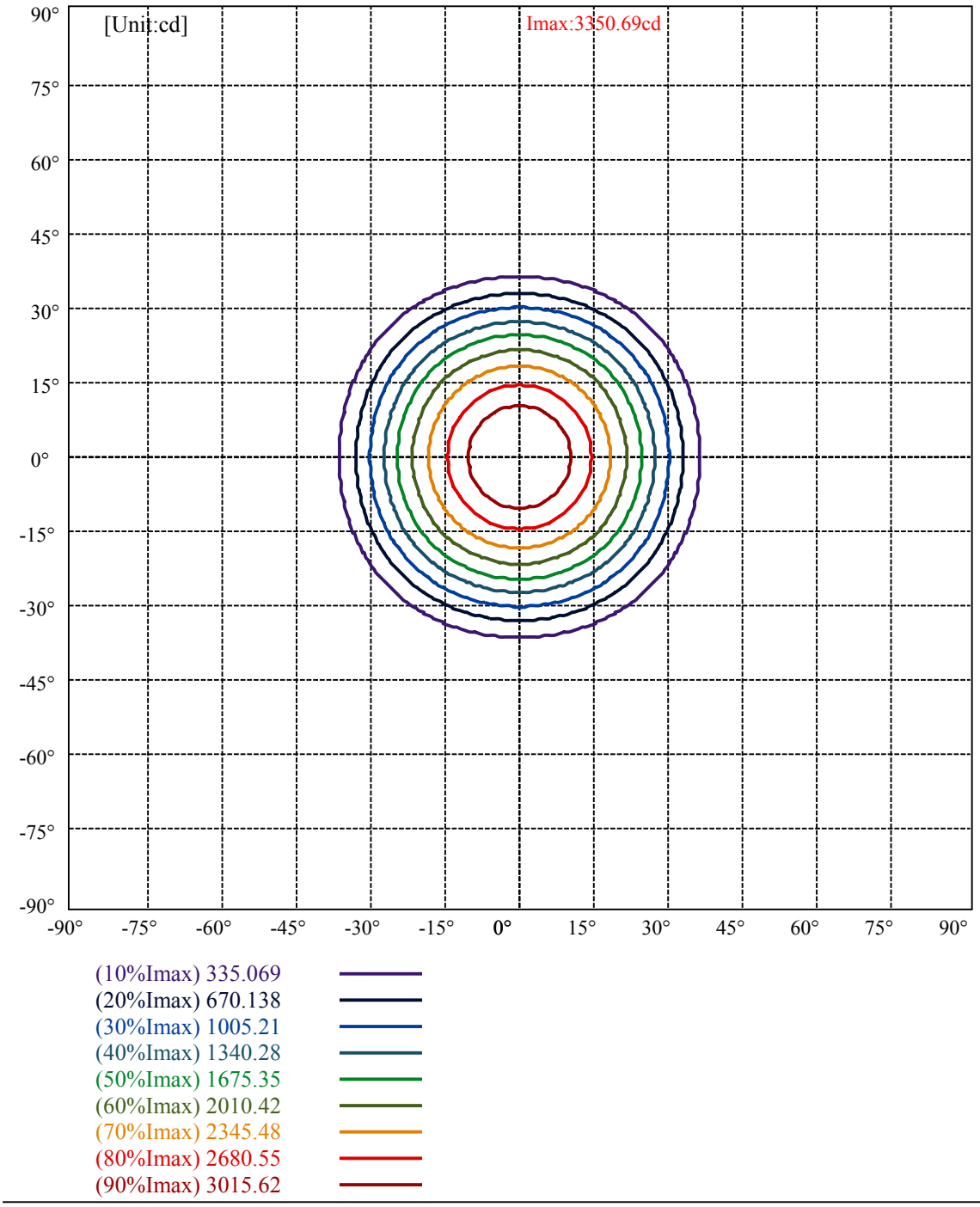
Date: 2023/10/13
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Lux distance Curve



ISO-Intensity(V-H)

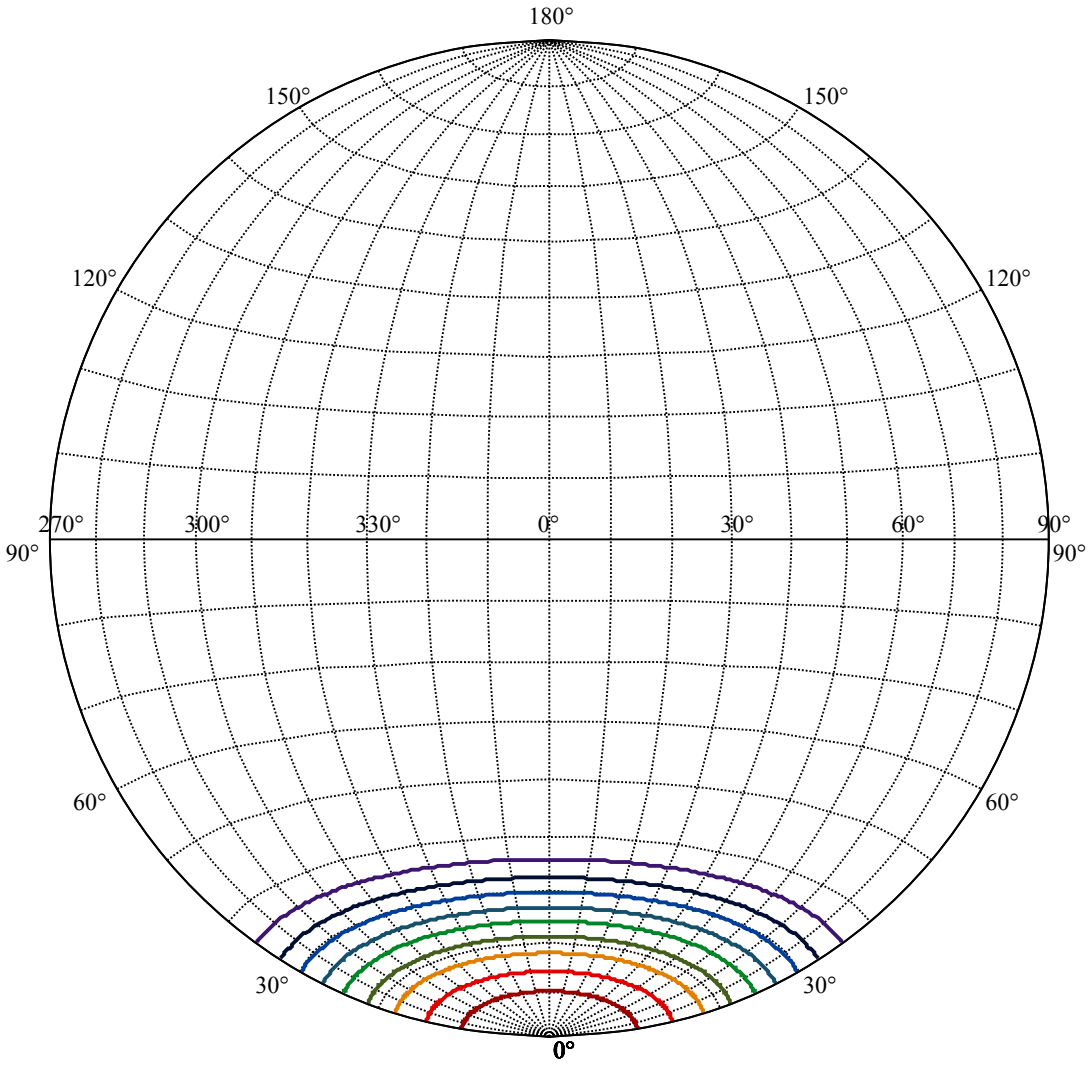


Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:3350.69

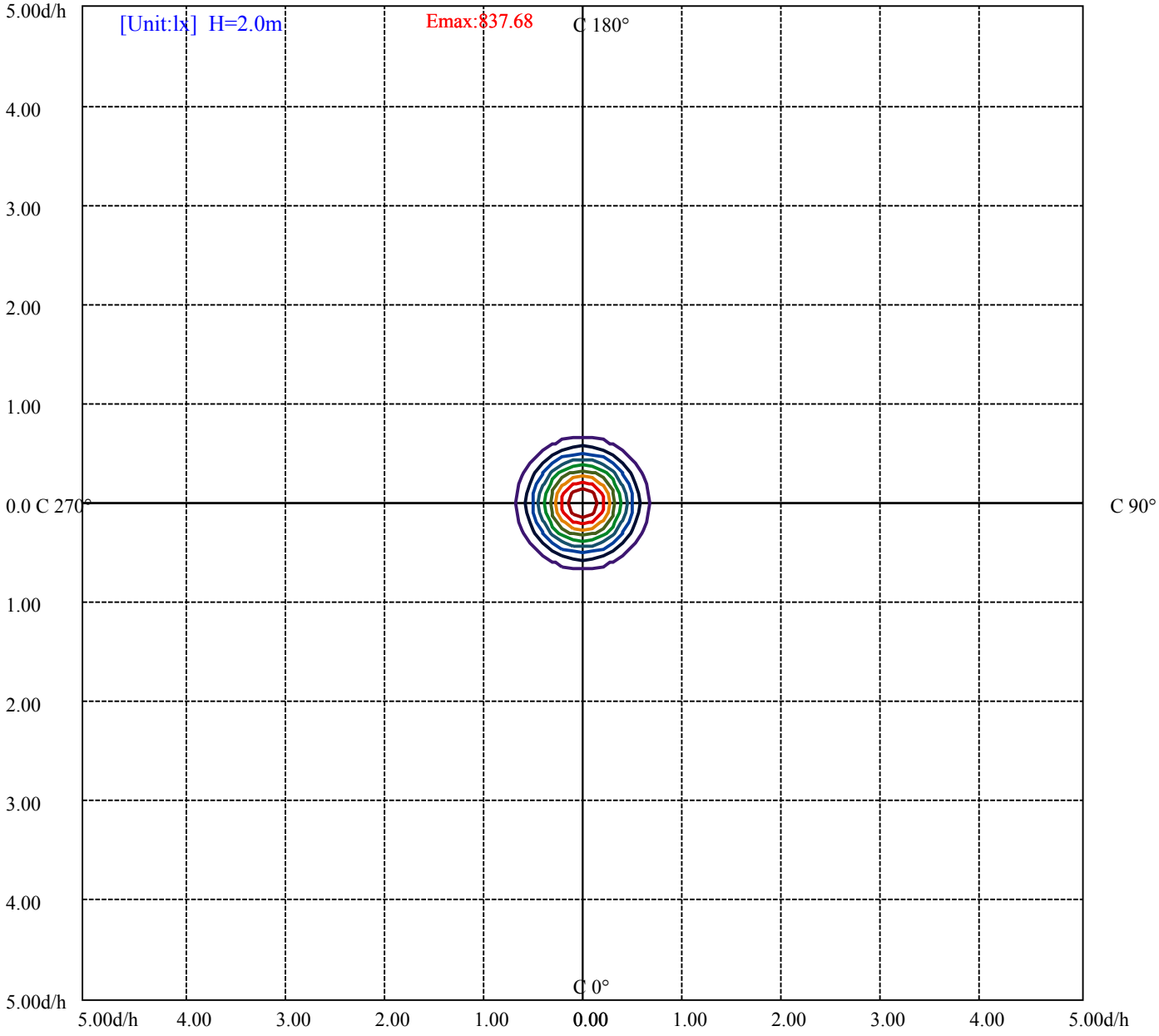
(10%Imax) 335.069
(20%Imax) 670.138
(30%Imax) 1005.21
(40%Imax) 1340.28
(50%Imax) 1675.35
(60%Imax) 2010.42
(70%Imax) 2345.48
(80%Imax) 2680.55
(90%Imax) 3015.62

Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

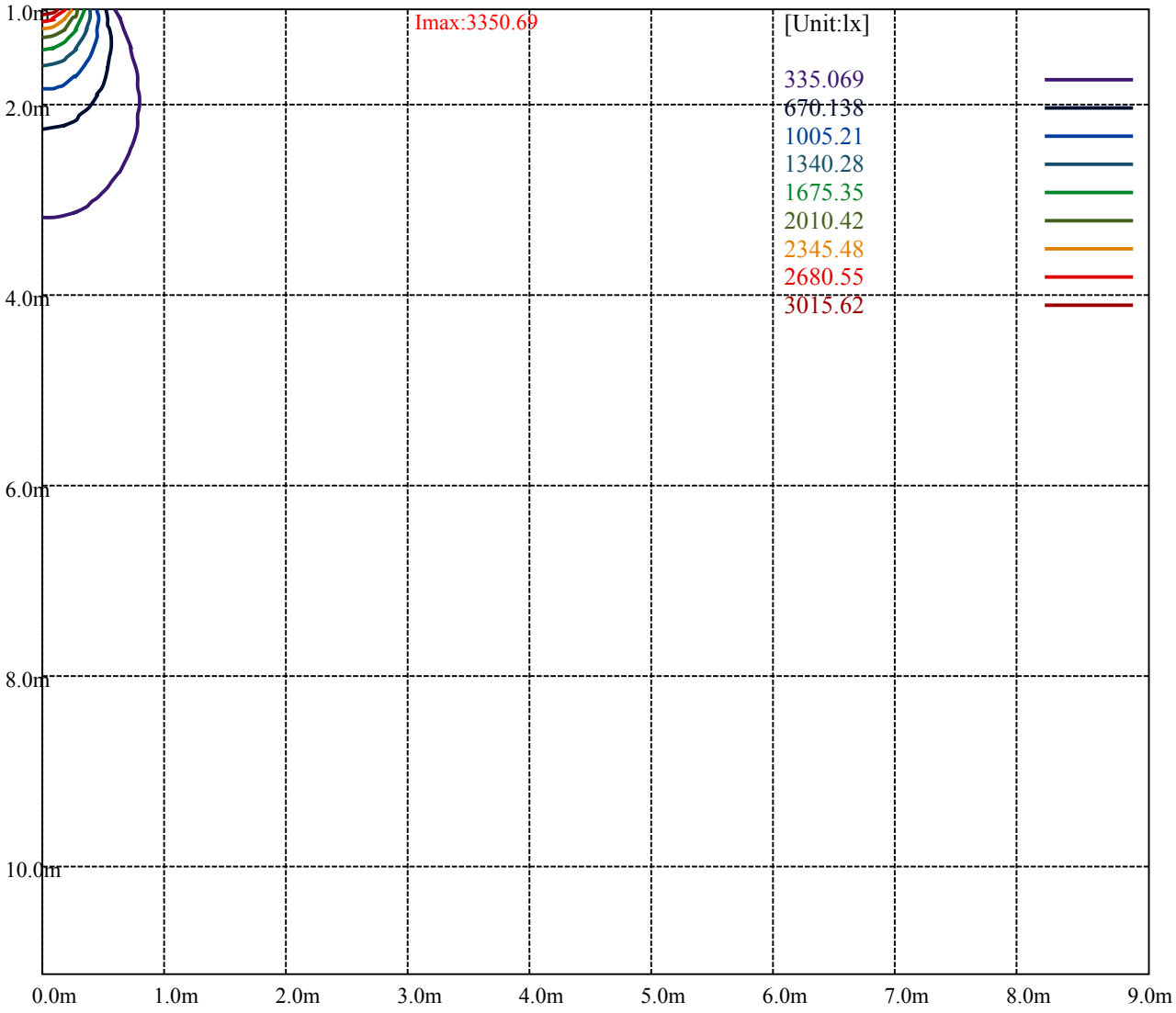
ISO illuminance diagram



(10%Emax) 83.76725
(20%Emax) 167.5345
(30%Emax) 251.3025
(40%Emax) 335.07
(50%Emax) 418.8375
(60%Emax) 502.6025
(70%Emax) 586.37
(80%Emax) 670.1375
(90%Emax) 753.905

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

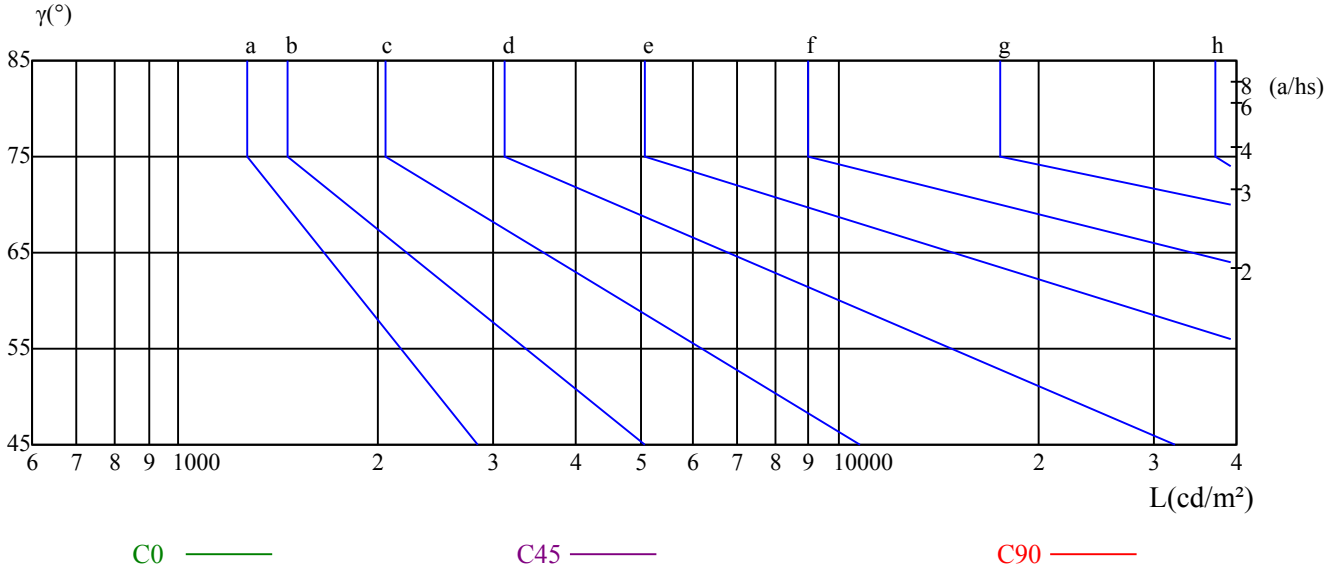
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

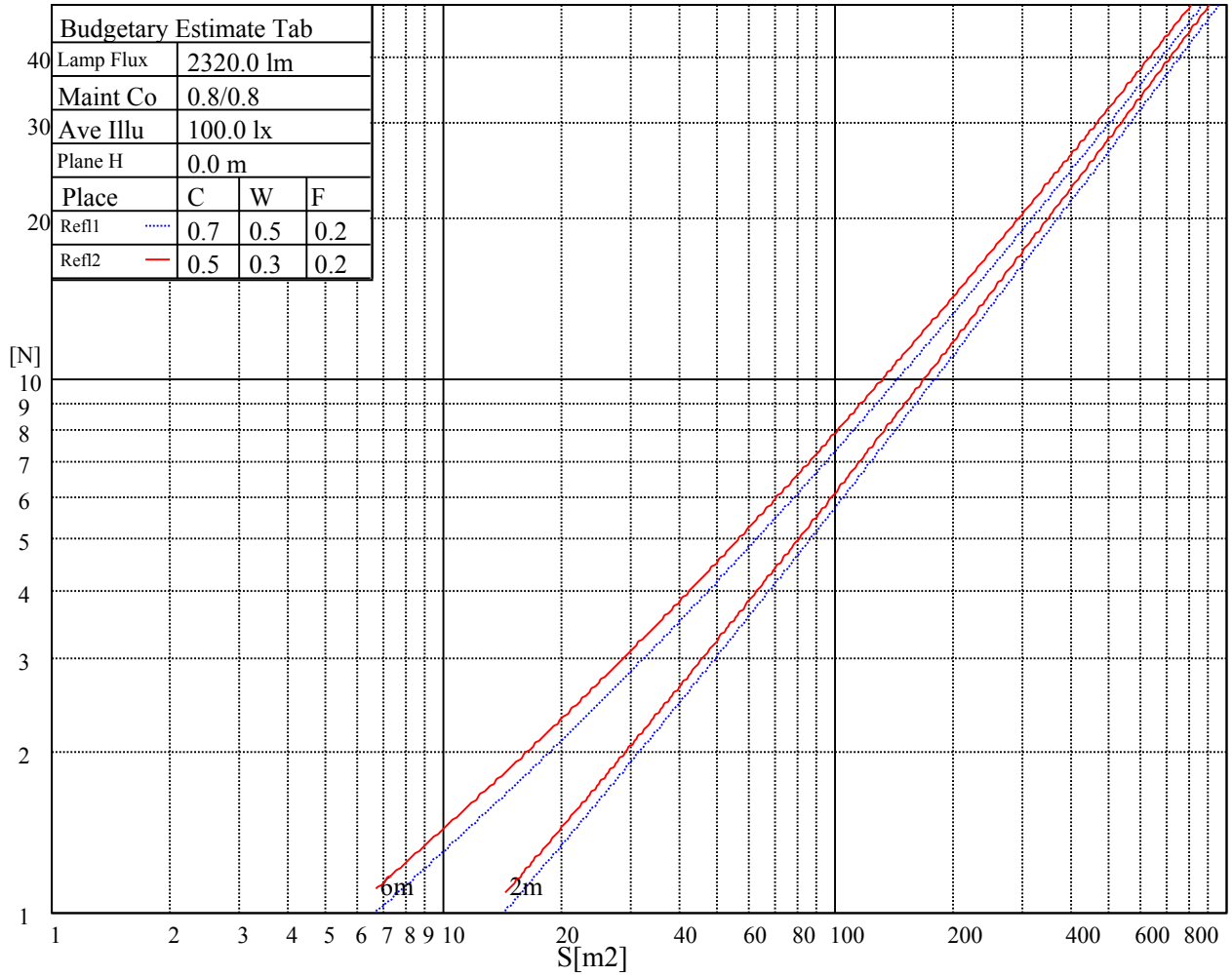
Luminance Limitting Curve



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

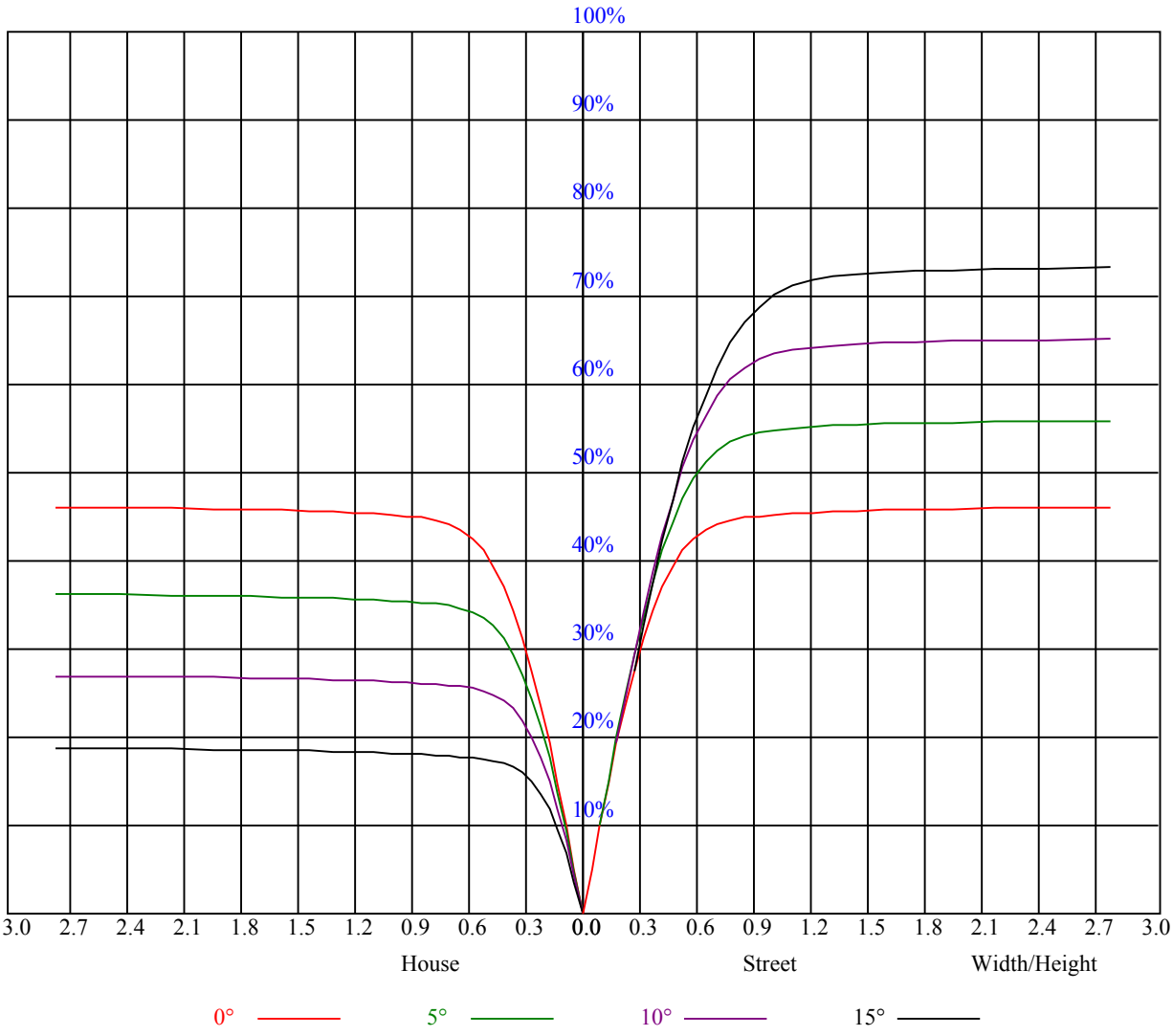


Equipment: GMS1980 Date: 2023/10/13 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.03	1.03	1.03	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	0.97	0.96	0.94	0.94	0.92	0.91	0.91	0.90	0.89	0.87
2	0.96	0.93	0.90	0.95	0.91	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.81
3	0.90	0.86	0.82	0.89	0.85	0.82	0.87	0.83	0.80	0.84	0.82	0.79	0.82	0.80	0.78	0.77
4	0.85	0.80	0.76	0.84	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.73	0.72
5	0.80	0.75	0.71	0.79	0.75	0.71	0.78	0.74	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.68
6	0.76	0.71	0.67	0.75	0.70	0.67	0.74	0.70	0.66	0.73	0.69	0.66	0.71	0.68	0.65	0.64
7	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
8	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.58
9	0.65	0.60	0.57	0.65	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.55
10	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.56	0.53	0.60	0.56	0.53	0.60	0.56	0.53	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	3342.80	3337.82	3325.64	3296.31	3275.27	3224.90	3179.51	3125.26	3041.13
45.0	3353.87	3351.66	3349.45	3352.21	3336.72	3307.93	3284.13	3246.49	3172.87
90.0	3356.64	3353.87	3357.20	3349.45	3334.50	3309.04	3255.90	3211.62	3156.26
135.0	3349.45	3352.21	3360.52	3353.87	3346.68	3334.50	3316.79	3280.25	3229.33
180.0	3342.80	3348.89	3353.32	3348.89	3350.00	3342.80	3332.84	3304.06	3267.52
225.0	3353.87	3345.57	3346.68	3337.82	3323.43	3297.97	3269.18	3221.58	3173.98
270.0	3356.64	3351.11	3341.70	3337.82	3318.45	3297.41	3264.76	3229.88	3175.64
315.0	3349.45	3342.80	3330.63	3315.13	3295.75	3252.58	3219.92	3165.67	3097.59
360.0	3342.80	3337.82	3325.64	3296.31	3275.27	3224.90	3179.51	3125.26	3041.13

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2971.38	2902.74	2819.16	2748.86	2662.51	2586.67	2504.75	2416.18	2309.35
45.0	3118.62	3053.30	2958.65	2883.37	2808.64	2731.15	2628.19	2540.18	2454.38
90.0	3093.71	3000.72	2924.33	2846.28	2761.59	2660.85	2577.82	2489.80	2397.36
135.0	3165.67	3102.02	3031.72	2954.78	2849.60	2764.36	2679.11	2587.23	2473.75
180.0	3227.67	3156.26	3088.73	3013.45	2914.92	2839.09	2763.25	2678.01	2576.16
225.0	3106.44	3014.56	2937.62	2862.89	2767.13	2691.29	2596.64	2513.61	2430.02
270.0	3118.62	3063.82	2991.31	2906.06	2832.44	2736.68	2662.51	2563.43	2493.68
315.0	3028.40	2958.65	2869.53	2803.11	2738.90	2649.22	2573.94	2493.68	2412.86
360.0	2971.38	2902.74	2819.16	2748.86	2662.51	2586.67	2504.75	2416.18	2309.35

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2221.89	2129.45	2027.05	1892.54	1784.05	1677.77	1547.13	1432.00	1095.67
45.0	2368.03	2263.41	2164.33	2064.14	1937.93	1826.12	1691.05	1586.43	1480.16
90.0	2283.34	2186.47	2063.03	1962.84	1828.33	1722.05	1619.65	1515.58	1403.77
135.0	2385.19	2294.96	2177.61	2073.55	1979.44	1851.58	1741.42	1641.23	1515.03
180.0	2492.02	2398.47	2310.46	2200.31	2100.67	1994.94	1873.17	1767.44	1645.11
225.0	2340.35	2234.62	2138.86	2043.65	1946.23	1818.92	1721.50	1625.74	1528.87
270.0	2404.01	2317.10	2212.48	2120.60	2024.28	1924.64	1803.97	1702.12	1606.36
315.0	2311.57	2223.55	2131.67	2033.14	1903.61	1803.97	1683.30	1585.88	1480.16
360.0	2221.89	2129.45	2027.05	1892.54	1784.05	1677.77	1547.13	1432.00	1095.67

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1095.67	1034.39	912.28	761.83	648.30	540.64	443.05	335.11	262.60
45.0	1363.36	1210.03	1089.91	970.35	846.91	699.67	590.07	489.33	375.30
90.0	1089.41	1089.41	1000.13	846.02	729.17	616.31	510.30	392.46	309.21
135.0	1409.30	1289.74	1143.05	1026.26	906.69	791.00	650.96	545.79	448.92
180.0	1550.45	1444.73	1330.15	1191.21	1071.65	946.55	828.09	689.71	582.32
225.0	1397.12	1077.57	1077.57	1016.90	900.27	755.96	646.59	543.90	450.80
270.0	1508.39	1365.57	1250.99	1102.64	981.97	865.18	722.92	617.75	518.66
315.0	1246.01	1088.03	1088.03	934.26	814.47	698.45	590.46	469.84	382.83
360.0	1095.67	1034.39	912.28	761.83	648.30	540.64	443.05	335.11	262.60

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	201.93	153.99	117.13	102.46	90.89	79.54	71.96	65.32	58.29
45.0	294.48	294.48	156.98	122.11	101.02	89.84	80.76	73.12	64.93
90.0	240.29	171.49	131.02	108.44	92.83	82.53	74.51	65.82	59.73
135.0	358.69	279.54	279.54	147.02	112.98	99.36	87.85	76.78	69.30
180.0	478.26	366.44	288.39	288.39	152.11	122.55	102.85	90.39	80.71
225.0	343.80	271.07	210.01	161.58	124.38	107.61	94.21	81.54	73.12
270.0	428.99	327.14	290.05	290.05	150.51	125.49	105.39	92.44	82.26
315.0	303.67	235.47	170.60	135.45	114.86	100.69	86.41	77.44	68.03
360.0	201.93	153.99	117.13	102.46	90.89	79.54	71.96	65.32	58.29

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	53.58	49.21	44.56	41.40	38.69	36.48	34.10	32.33	30.83
45.0	59.34	54.41	50.04	45.00	41.63	38.69	36.42	34.04	32.33
90.0	54.69	50.15	45.11	41.74	38.86	36.42	33.88	32.16	30.17
135.0	63.10	56.29	51.64	47.38	43.56	39.63	36.98	34.93	33.05
180.0	72.79	64.27	58.56	53.64	49.21	44.23	41.07	38.25	35.92
225.0	66.26	58.95	53.91	49.38	44.50	41.35	38.58	35.70	33.71
270.0	71.63	64.87	57.79	52.92	48.55	43.90	40.80	38.19	35.92
315.0	61.83	56.68	51.04	47.00	43.51	40.52	37.42	35.32	33.38
360.0	53.58	49.21	44.56	41.40	38.69	36.48	34.10	32.33	30.83

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	29.45	27.90	26.79	25.41	24.41	23.64	22.58	21.86	21.15
45.0	30.39	29.01	27.79	26.40	25.35	24.41	23.53	22.47	21.70
90.0	28.84	27.57	26.13	25.08	24.13	23.03	22.20	21.48	20.81
135.0	31.00	29.50	28.29	26.79	25.68	24.41	23.53	22.64	21.64
180.0	33.43	31.72	29.78	28.40	27.18	25.79	24.74	23.86	22.97
225.0	31.94	30.33	28.56	27.23	26.13	25.02	23.80	22.97	21.92
270.0	33.32	31.50	29.95	28.56	26.90	25.85	24.74	23.58	22.69
315.0	31.61	29.67	28.34	27.01	25.63	24.63	23.69	22.58	21.75
360.0	29.45	27.90	26.79	25.41	24.41	23.64	22.58	21.86	21.15

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.26	19.65	18.99	18.43	17.66	17.21	16.66	16.11	15.50
45.0	20.92	20.31	19.54	18.93	18.32	17.66	17.10	16.66	15.94
90.0	20.15	19.32	18.76	18.21	17.49	16.94	16.33	15.89	15.39
135.0	20.98	20.31	19.65	18.88	18.32	17.77	17.21	16.61	16.11
180.0	21.98	21.20	20.48	19.87	19.10	18.54	17.93	17.33	16.83
225.0	21.20	20.43	19.60	19.04	18.43	17.93	17.16	16.66	16.22
270.0	21.81	20.87	20.15	19.32	18.71	18.16	17.60	16.94	16.38
315.0	20.98	20.09	19.48	18.88	18.27	17.55	17.05	16.50	16.05
360.0	20.26	19.65	18.99	18.43	17.66	17.21	16.66	16.11	15.50

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.00	14.56	14.00	13.56	13.01	12.51	12.12	11.73	11.18
45.0	15.50	15.06	14.45	13.95	13.56	13.12	12.57	12.18	11.73
90.0	14.78	14.34	13.95	13.51	13.12	12.57	12.18	11.73	11.35
135.0	15.61	15.06	14.56	14.17	13.62	13.17	12.79	12.29	11.85
180.0	16.33	15.72	15.22	14.78	14.23	13.73	13.28	12.90	12.34
225.0	15.72	15.17	14.67	14.17	13.62	13.17	12.79	12.18	11.85
270.0	15.89	15.44	14.95	14.39	13.89	13.45	12.95	12.51	12.01
315.0	15.44	14.95	14.34	13.84	13.40	12.84	12.40	12.01	11.51
360.0	15.00	14.56	14.00	13.56	13.01	12.51	12.12	11.73	11.18

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.85	10.46	10.19	9.91	9.63	9.41	9.08	8.91	8.86
45.0	11.24	10.85	10.41	10.13	9.85	9.58	9.35	9.08	8.86
90.0	10.96	10.52	10.19	9.91	9.69	9.47	9.24	8.91	8.86
135.0	11.51	11.02	10.57	10.30	10.02	9.74	9.52	9.30	9.02
180.0	11.90	11.51	11.07	10.68	10.30	10.02	9.74	9.47	9.24
225.0	11.35	11.02	10.57	10.30	9.96	9.74	9.47	9.24	9.02
270.0	11.68	11.24	10.74	10.46	10.13	9.85	9.58	9.41	9.13
315.0	11.18	10.74	10.46	10.07	9.85	9.58	9.41	9.08	8.91
360.0	10.85	10.46	10.19	9.91	9.63	9.41	9.08	8.91	8.86

Intensity data(cd)

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