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NATA

Client:
LumCAT: 2-2639-L
Luminaire: 92.70.412.00
Report No: 20231013-B015
Ballast type: AC

Test No: 20231013-C015	Voltage(V): 34.070
LampCAT: LUMINUS CXM-14-AC40	Current(A): 0.530
Lamp flux(lm): 2320.0	Power (W): 18.057
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2186.54, Efficiency(%): 94.25% , Luminous Efficacy(lm/W): 121.09
Central intensity(cd): 8477.681, Maximum intensity(cd): 8477.681
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=22.0
[C90/270]Total=22.0
Field angle(10%Imax): [C0/180]Total=56.4
[C90/270]Total=56.4
Beam angle of C0 plane : 21.97
Aveage BeamAngle(IEC 61341):21.97
Maximum s/h(1/2): C0_180=0.37 C90_270=0.37
Maximum s/h(1/4): C0_180=0.41 C90_270=0.41
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.25%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.926%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8477.681	0.000	0	0.00%	0.00%
1.0	8412.709	8.082	8.082	0.35%	0.37%
2.0	8274.395	23.951	32.033	1.03%	1.46%
3.0	8034.644	39.006	71.039	1.68%	3.25%
4.0	7686.539	52.624	123.662	2.27%	5.66%
5.0	7264.191	64.317	187.98	2.77%	8.60%
6.0	6784.552	73.830	261.809	3.18%	11.97%
7.0	6279.036	81.085	342.895	3.50%	15.68%
8.0	5731.796	85.959	428.854	3.71%	19.61%
9.0	5215.278	88.720	517.574	3.82%	23.67%
10.0	4684.298	89.588	607.162	3.86%	27.77%
11.0	4231.229	89.084	696.246	3.84%	31.84%
12.0	3782.588	87.602	783.849	3.78%	35.85%
13.0	3409.574	85.353	869.202	3.68%	39.75%
14.0	3046.731	82.640	951.842	3.56%	43.53%
15.0	2739.796	79.440	1031.282	3.42%	47.17%
16.0	2451.749	76.071	1107.352	3.28%	50.64%
17.0	2196.638	72.388	1179.74	3.12%	53.95%
18.0	1986.987	68.979	1248.719	2.97%	57.11%
19.0	1793.664	65.776	1314.495	2.84%	60.12%
20.0	1632.585	62.710	1377.205	2.70%	62.99%
21.0	1503.127	60.212	1437.417	2.60%	65.74%
22.0	1380.450	57.947	1495.363	2.50%	68.39%
23.0	1259.371	55.391	1550.754	2.39%	70.92%
24.0	1175.420	53.233	1603.987	2.29%	73.36%
25.0	1118.738	52.164	1656.151	2.25%	75.74%
26.0	1043.699	51.045	1707.196	2.20%	78.08%
27.0	957.866	48.969	1756.165	2.11%	80.32%
28.0	869.750	46.271	1802.436	1.99%	82.43%
29.0	778.521	43.123	1845.559	1.86%	84.41%
30.0	689.270	39.630	1885.189	1.71%	86.22%
31.0	597.431	35.807	1920.996	1.54%	87.86%
32.0	514.408	31.853	1952.849	1.37%	89.31%
33.0	433.633	27.930	1980.779	1.20%	90.59%
34.0	355.965	23.896	2004.675	1.03%	91.68%
35.0	286.413	19.950	2024.624	0.86%	92.60%
36.0	236.346	16.645	2041.269	0.72%	93.36%
37.0	184.777	13.735	2055.004	0.59%	93.98%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	133.700	10.630	2065.634	0.46%	94.47%
39.0	89.361	7.614	2073.248	0.33%	94.82%
40.0	72.562	5.647	2078.895	0.24%	95.08%
41.0	62.923	4.825	2083.72	0.21%	95.30%
42.0	56.599	4.342	2088.062	0.19%	95.50%
43.0	51.285	3.996	2092.059	0.17%	95.68%
44.0	46.815	3.703	2095.761	0.16%	95.85%
45.0	42.941	3.449	2099.211	0.15%	96.01%
46.0	40.034	3.245	2102.456	0.14%	96.15%
47.0	37.564	3.086	2105.542	0.13%	96.30%
48.0	35.579	2.957	2108.499	0.13%	96.43%
49.0	33.883	2.852	2111.351	0.12%	96.56%
50.0	32.534	2.769	2114.12	0.12%	96.69%
51.0	31.462	2.708	2116.828	0.12%	96.81%
52.0	30.576	2.662	2119.49	0.11%	96.93%
53.0	29.939	2.632	2122.122	0.11%	97.05%
54.0	29.642	2.626	2124.748	0.11%	97.17%
55.0	29.566	2.643	2127.391	0.11%	97.30%
56.0	29.676	2.677	2130.068	0.12%	97.42%
57.0	29.905	2.724	2132.793	0.12%	97.54%
58.0	30.105	2.775	2135.568	0.12%	97.67%
59.0	30.002	2.810	2138.378	0.12%	97.80%
60.0	29.476	2.810	2141.188	0.12%	97.93%
61.0	28.175	2.751	2143.939	0.12%	98.05%
62.0	26.334	2.627	2146.565	0.11%	98.17%
63.0	24.044	2.450	2149.016	0.11%	98.28%
64.0	21.526	2.236	2151.252	0.10%	98.39%
65.0	19.484	2.030	2153.281	0.09%	98.48%
66.0	17.900	1.865	2155.146	0.08%	98.56%
67.0	16.814	1.745	2156.892	0.08%	98.64%
68.0	16.101	1.667	2158.559	0.07%	98.72%
69.0	15.506	1.612	2160.172	0.07%	98.79%
70.0	15.001	1.567	2161.739	0.07%	98.87%
71.0	14.544	1.527	2163.266	0.07%	98.94%
72.0	14.129	1.491	2164.756	0.06%	99.00%
73.0	13.728	1.457	2166.213	0.06%	99.07%
74.0	13.375	1.425	2167.638	0.06%	99.14%
75.0	13.022	1.395	2169.033	0.06%	99.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.704	1.366	2170.398	0.06%	99.26%
77.0	12.372	1.337	2171.735	0.06%	99.32%
78.0	12.074	1.309	2173.044	0.06%	99.38%
79.0	11.763	1.281	2174.325	0.06%	99.44%
80.0	11.444	1.251	2175.576	0.05%	99.50%
81.0	11.126	1.221	2176.796	0.05%	99.55%
82.0	10.801	1.189	2177.985	0.05%	99.61%
83.0	10.496	1.158	2179.143	0.05%	99.66%
84.0	10.213	1.128	2180.271	0.05%	99.71%
85.0	9.950	1.100	2181.372	0.05%	99.76%
86.0	9.735	1.076	2182.448	0.05%	99.81%
87.0	9.528	1.054	2183.502	0.05%	99.86%
88.0	9.292	1.031	2184.533	0.04%	99.91%
89.0	9.113	1.009	2185.542	0.04%	99.95%
90.0	9.023	0.994	2186.536	0.04%	100.00%

Zonal flux distribution table

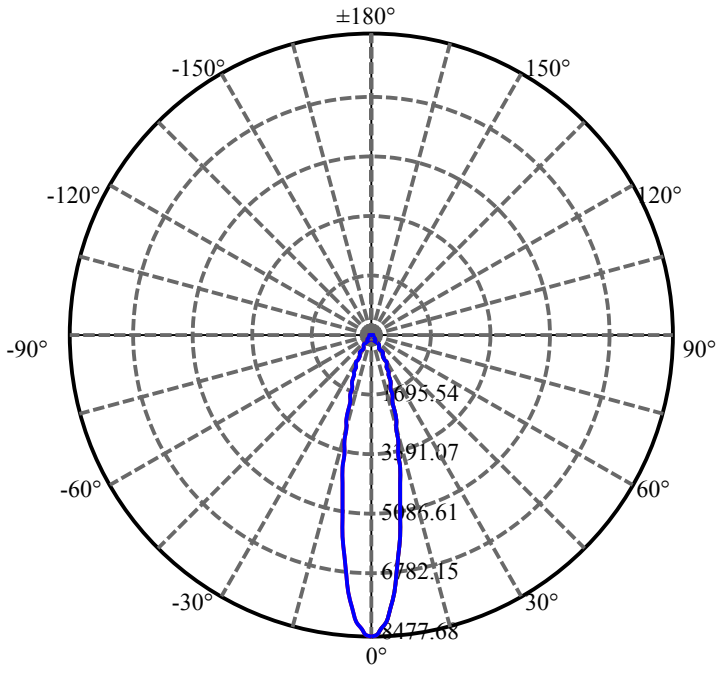
ZONAL LUMEN SUMMARY

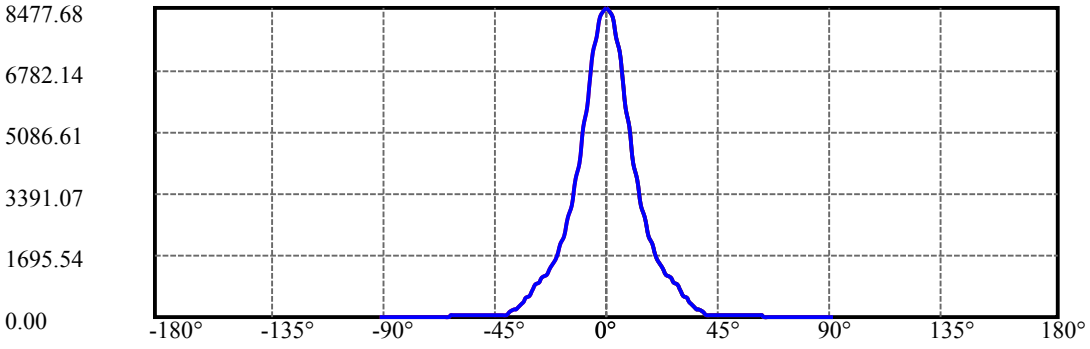
Zone	Lumens	%Lamp	%Fixt
0-30	1885.19	81.26%	86.22%
0-40	2078.90	89.61%	95.08%
0-60	2141.19	92.29%	97.93%
0-90	2185.54	94.21%	99.95%
0-120	2185.54	94.21%	99.95%
0-180	2186.54	94.25%	100.00%
60-90	44.35	1.91%	2.03%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.86	1749.23	75.40%	80.00%

ZONAL LUMEN SUMMARY

0-10	607.16
10-20	770.04
20-30	507.98
30-40	193.71
40-50	35.23
50-60	27.07
60-70	20.55
70-80	13.84
80-90	9.97
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):

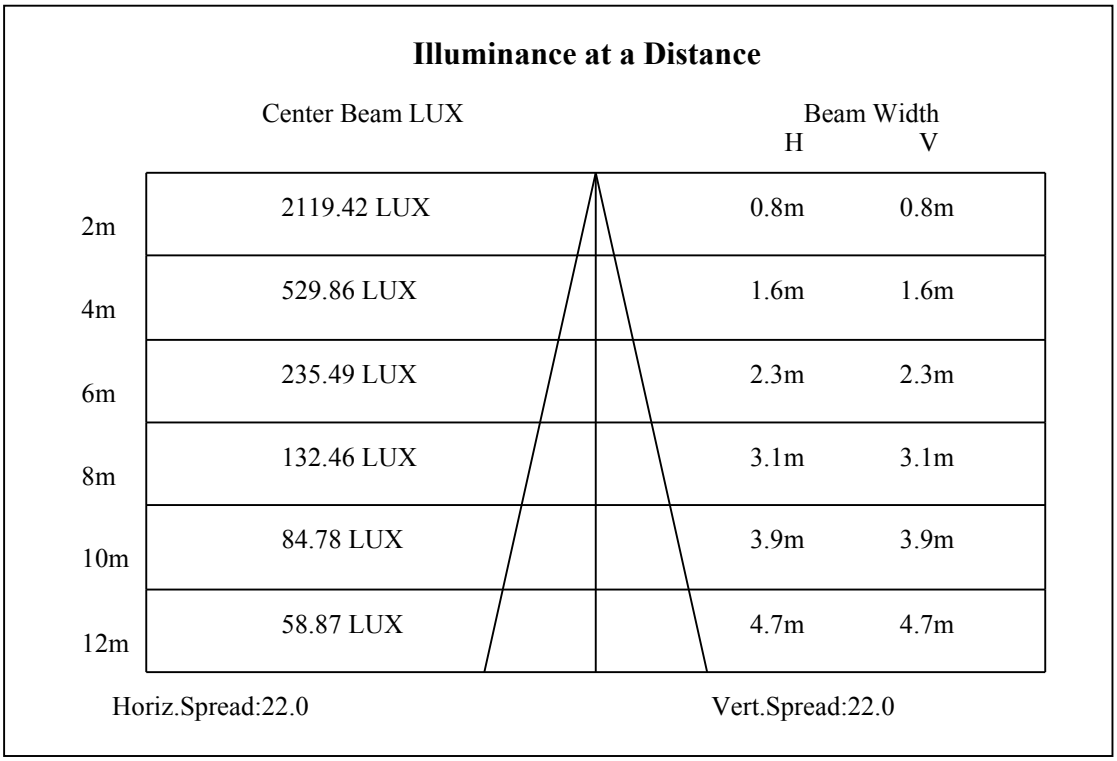
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:28.2 Right:28.2
:C90/270Left:28.2 Right:28.2

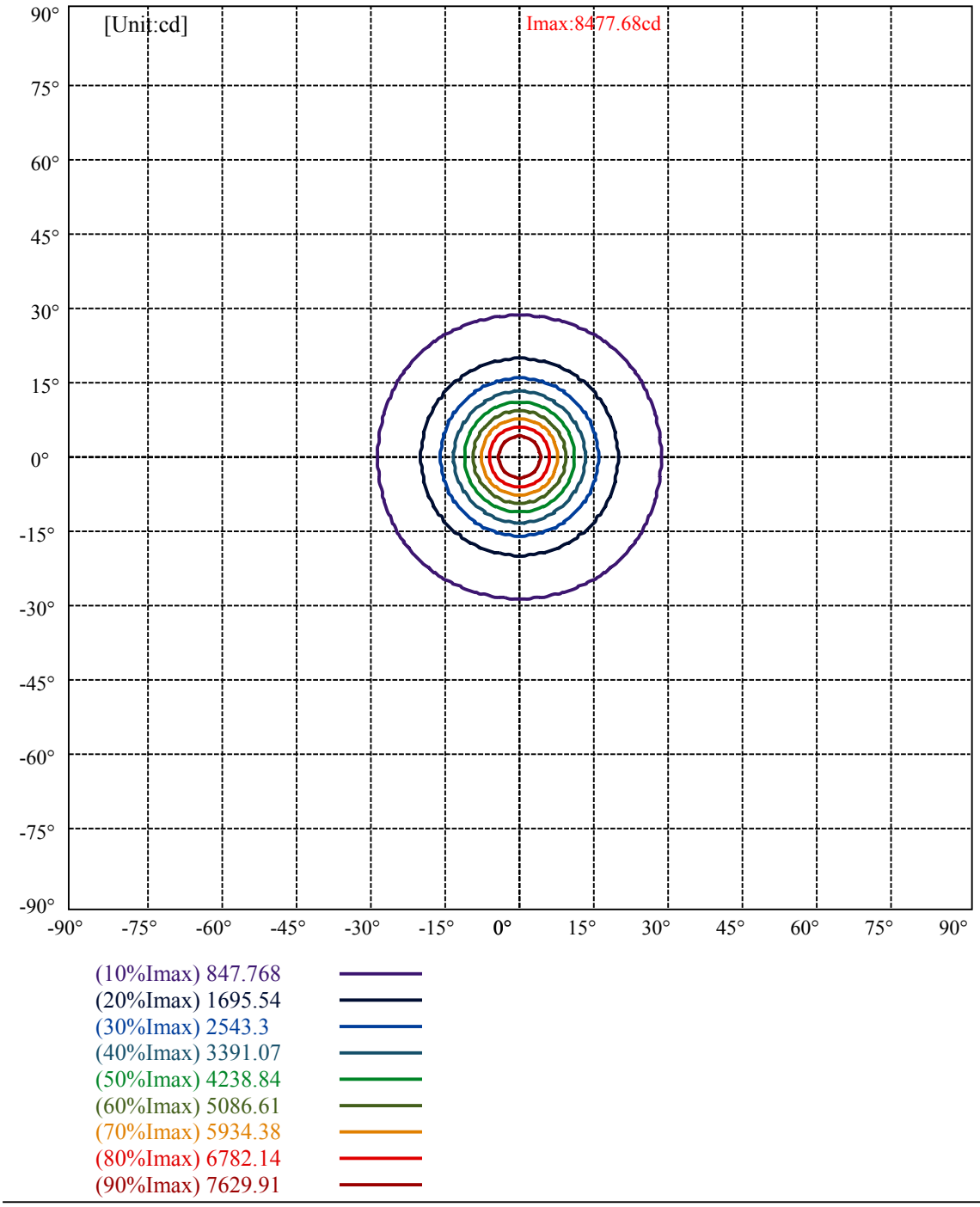
Beam Angle(50%Imax):C0/180Left:11.0 Right:11.0
:C90/270Left:11.0 Right:11.0

Lux distance Curve



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

ISO-Intensity(V-H)

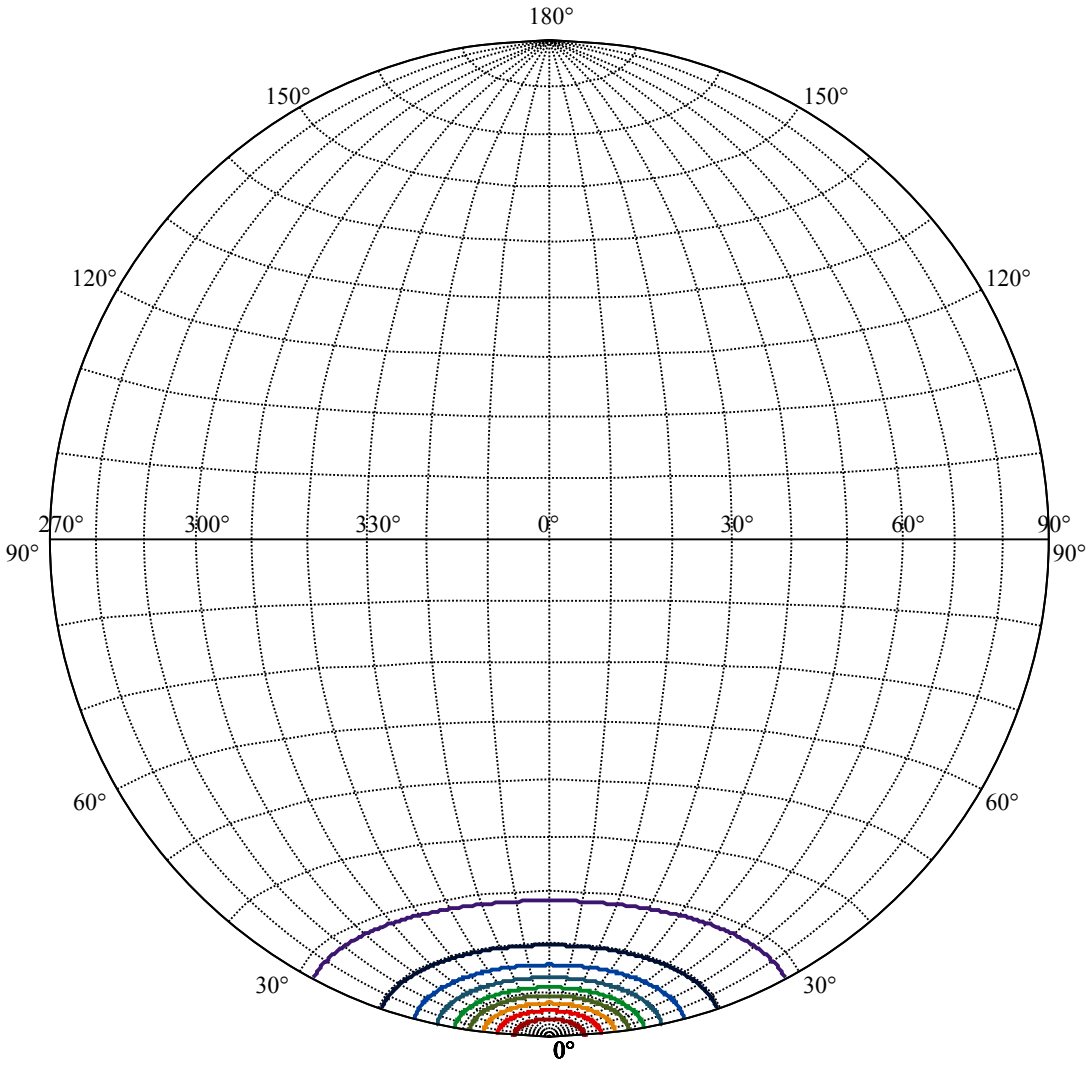


Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



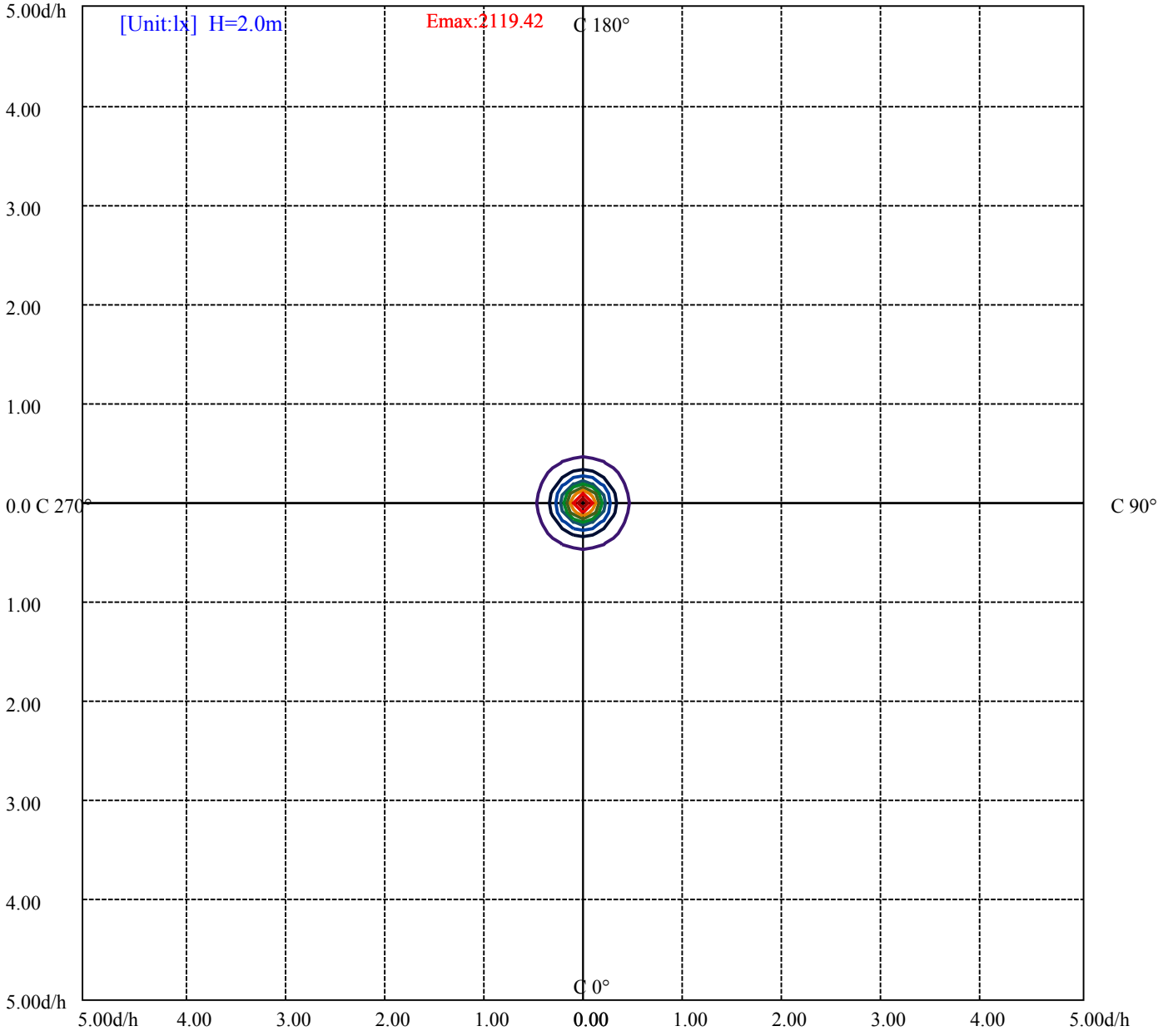
House [Unit:cd] Road

Imax:8477.68

(10%Imax) 847.768
(20%Imax) 1695.54
(30%Imax) 2543.3
(40%Imax) 3391.07
(50%Imax) 4238.84
(60%Imax) 5086.61
(70%Imax) 5934.38
(80%Imax) 6782.14
(90%Imax) 7629.91

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

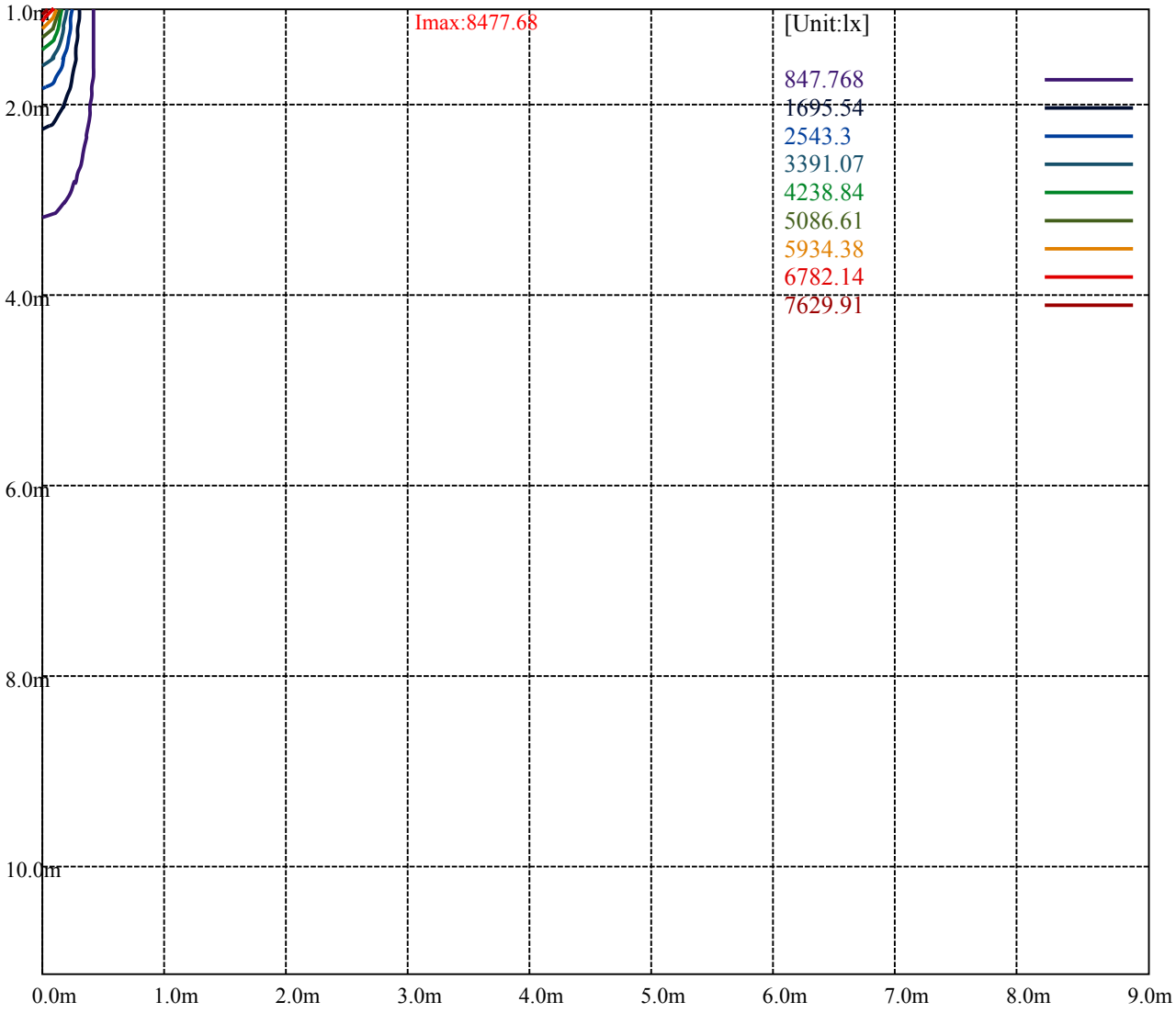
ISO illuminance diagram



(10%Emax) 211.9418
(20%Emax) 423.8825
(30%Emax) 635.825
(40%Emax) 847.7675
(50%Emax) 1059.71
(60%Emax) 1271.65
(70%Emax) 1483.593
(80%Emax) 1695.535
(90%Emax) 1907.475

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

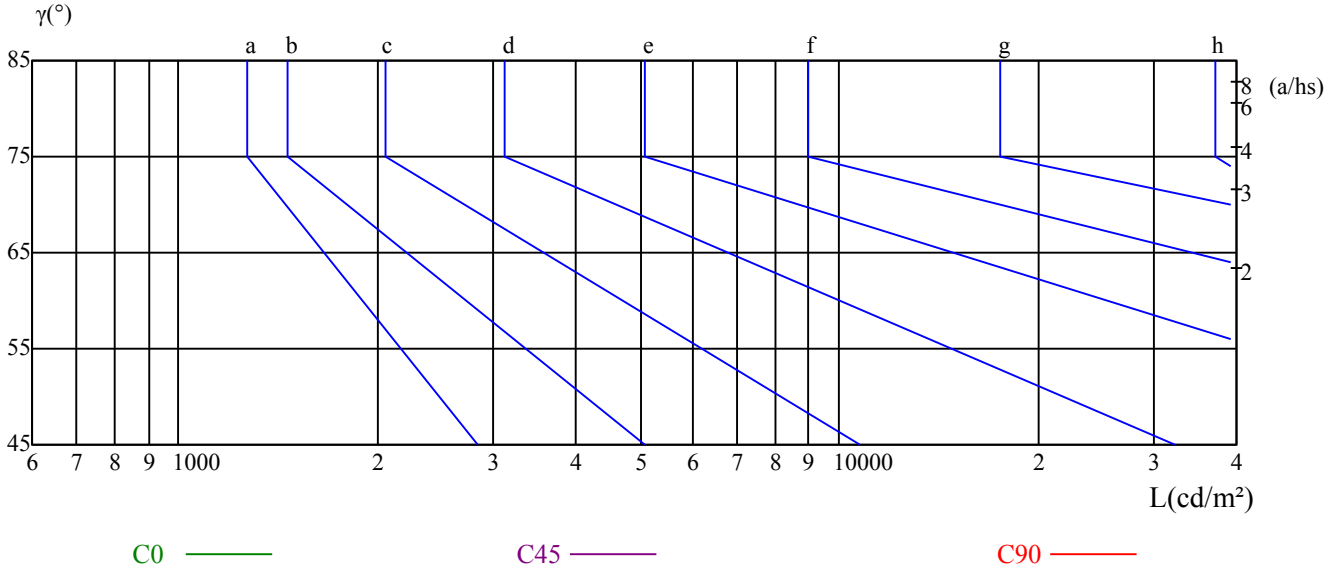
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

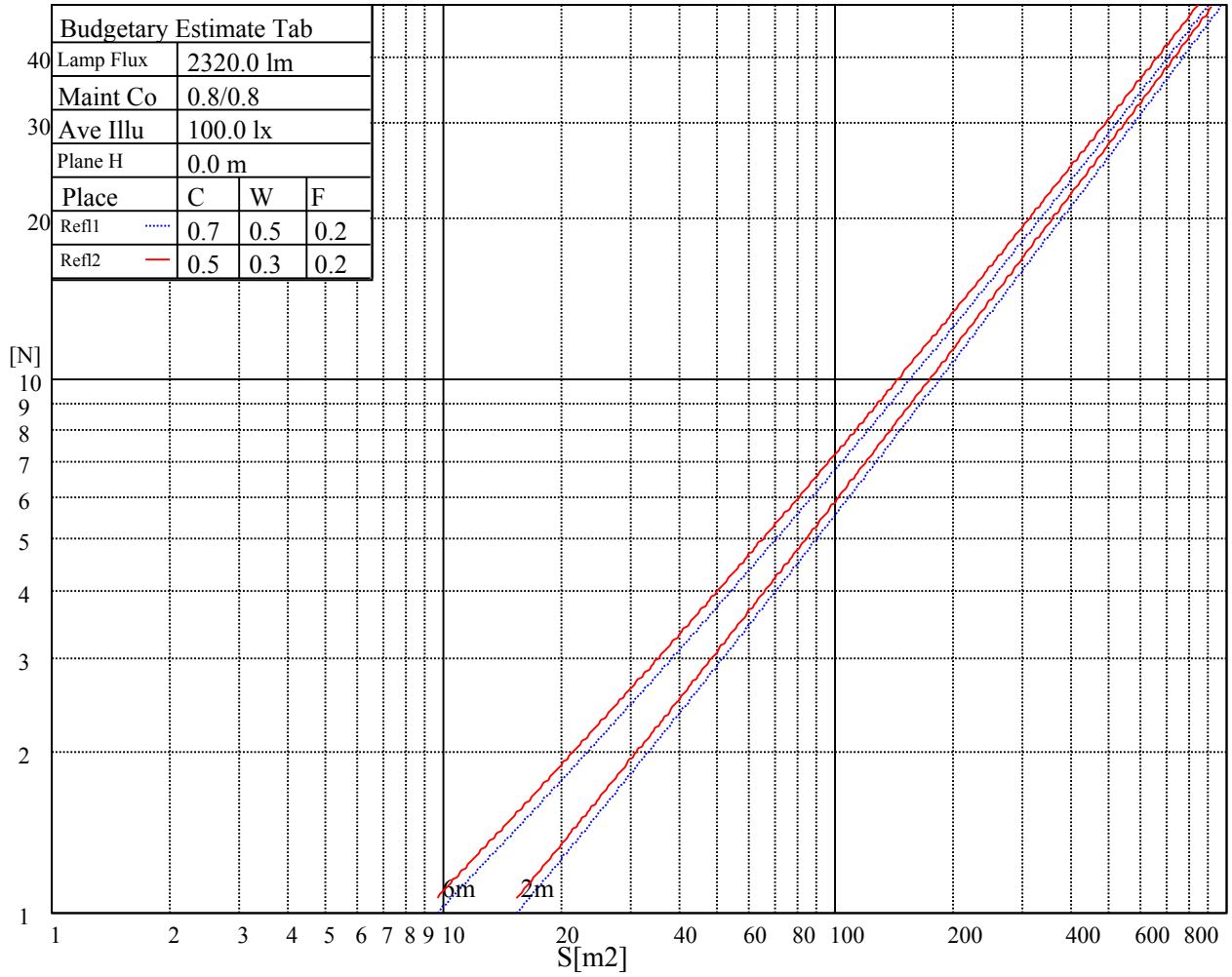


UGR Glare

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

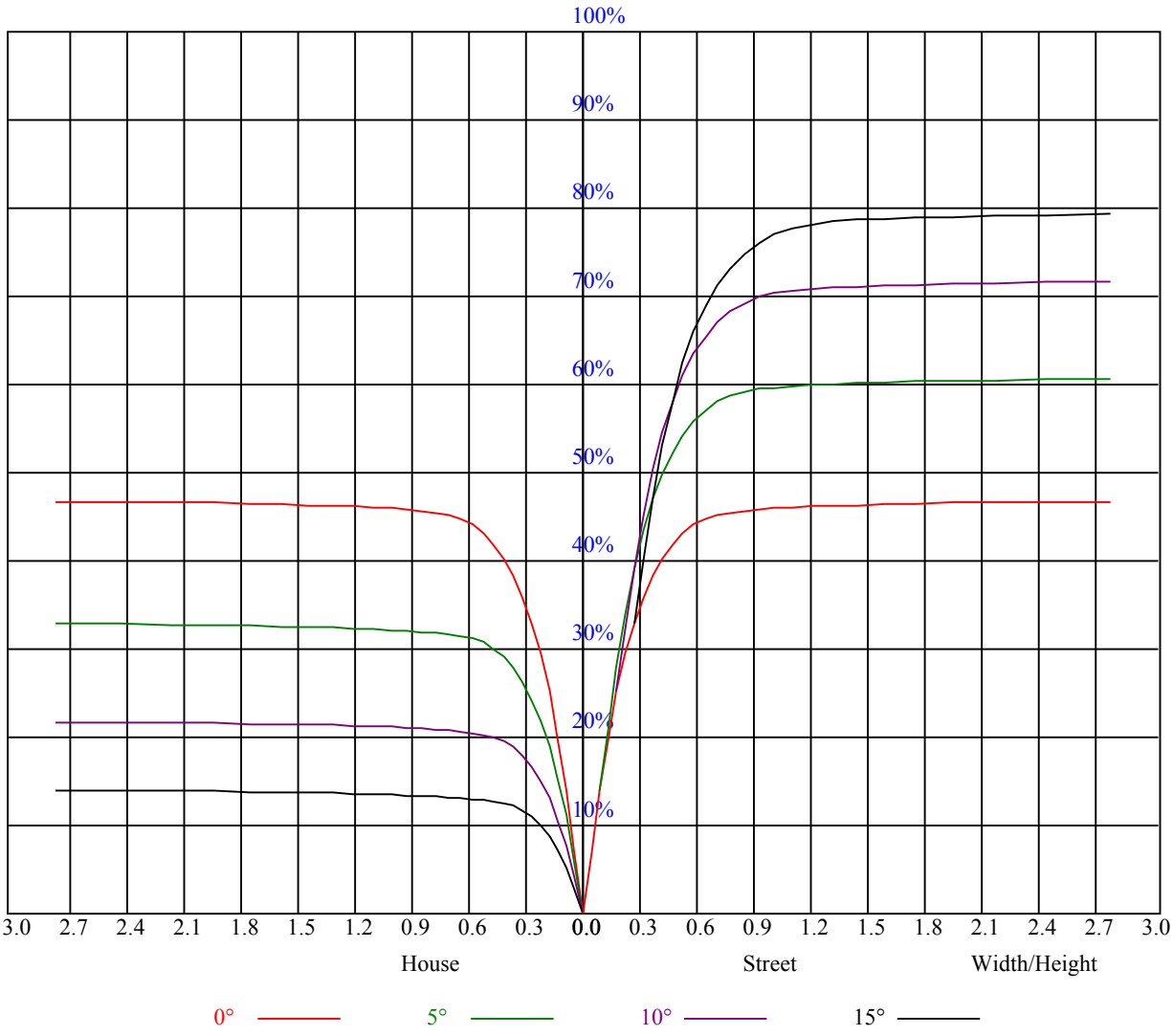


Equipment: GMS1980 Date: 2023/10/13 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.12	1.12	1.12	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.05	1.03	1.01	1.03	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.96	0.93	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.86	0.85
3	0.94	0.90	0.87	0.93	0.89	0.86	0.90	0.87	0.85	0.88	0.86	0.83	0.86	0.84	0.82	0.81
4	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.85	0.82	0.79	0.83	0.81	0.78	0.77
5	0.85	0.81	0.77	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.74
6	0.82	0.77	0.74	0.81	0.77	0.73	0.80	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
7	0.78	0.74	0.70	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.68
8	0.75	0.71	0.68	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.66
9	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.63
10	0.70	0.66	0.63	0.70	0.65	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.61

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	8378.32	8123.14	7828.66	7467.20	6915.88	6460.32	5975.42	5483.33	4878.31
45.0	8522.24	8415.41	8250.45	7991.40	7549.68	7128.99	6664.57	6081.70	5591.82
90.0	8477.40	8274.26	8051.18	7710.76	7317.19	6758.67	6289.83	5671.53	5178.33
135.0	8532.76	8512.83	8397.69	8177.94	7883.46	7488.79	6914.77	6458.66	5811.02
180.0	8378.32	8511.72	8533.31	8443.08	8245.47	7936.60	7559.64	7108.51	6614.76
225.0	8522.24	8510.06	8410.43	8167.98	7849.69	7450.59	6857.20	6346.84	5838.70
270.0	8477.40	8523.35	8500.10	8326.84	8095.46	7766.11	7373.65	6930.27	6309.76
315.0	8532.76	8430.91	8223.33	7991.95	7635.48	7123.45	6641.32	6151.45	5631.68
360.0	8378.32	8123.14	7828.66	7467.20	6915.88	6460.32	5975.42	5483.33	4878.31

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4420.54	4010.37	3628.43	3193.90	2876.17	2529.66	2282.23	2064.14	1834.97
45.0	5104.16	4639.74	4115.54	3724.19	3357.75	3035.04	2662.51	2398.47	2170.41
90.0	4697.86	4149.86	3761.28	3390.41	3062.16	2697.38	2428.92	2193.66	2001.59
135.0	5308.96	4835.14	4381.24	3880.84	3517.72	3183.39	2871.19	2520.25	2277.25
180.0	5974.87	5456.20	4957.47	4475.34	3961.10	3583.59	3245.38	2922.12	2570.07
225.0	5295.68	4694.54	4241.19	3857.04	3500.56	3085.41	2776.54	2500.32	2194.77
270.0	5803.82	5166.71	4674.61	4117.75	3723.08	3370.48	3044.45	2660.85	2393.49
315.0	5116.33	4521.84	4090.08	3621.23	3278.04	2888.90	2607.15	2354.19	2130.56
360.0	4420.54	4010.37	3628.43	3193.90	2876.17	2529.66	2282.23	2064.14	1834.97

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1683.30	1554.33	1448.05	1325.17	1187.89	1090.36	1090.36	1002.73	924.63
45.0	1934.05	1777.40	1606.92	1491.23	1392.70	1301.92	1196.74	1126.45	1056.70
90.0	1830.54	1652.30	1533.29	1406.53	1311.88	1100.04	1100.04	1065.22	983.41
135.0	2065.80	1874.83	1682.20	1555.44	1418.16	1321.84	1234.39	1139.73	1065.56
180.0	2331.49	2042.55	1860.43	1705.44	1547.13	1427.02	1327.38	1241.03	1146.93
225.0	1982.77	1758.03	1613.00	1491.23	1385.50	1273.13	1103.03	1103.03	1051.33
270.0	2179.27	1971.14	1743.08	1598.06	1472.96	1369.45	1257.63	1177.92	1112.05
315.0	1888.66	1718.73	1573.70	1451.92	1327.38	1191.21	1093.79	1093.79	1008.99
360.0	1683.30	1554.33	1448.05	1325.17	1187.89	1090.36	1090.36	1002.73	924.63

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	840.16	736.92	654.17	574.52	479.03	402.86	332.45	250.86	193.13
45.0	975.88	870.16	787.13	702.99	600.59	520.88	445.04	355.37	290.05
90.0	875.80	790.50	708.14	624.17	522.76	443.55	368.93	300.57	223.68
135.0	984.19	897.28	789.34	707.42	624.39	545.23	448.36	375.85	307.77
180.0	1078.84	998.03	918.32	811.48	724.03	634.91	554.09	456.11	383.05
225.0	950.97	868.28	783.31	674.93	594.66	514.90	420.91	352.21	287.40
270.0	1022.38	942.12	838.05	753.36	669.78	567.37	488.77	415.15	344.85
315.0	934.70	854.71	749.71	665.29	564.22	485.56	410.50	341.59	261.38
360.0	840.16	736.92	654.17	574.52	479.03	402.86	332.45	250.86	193.13

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	143.75	104.51	74.95	65.37	58.67	53.47	47.94	44.17	41.02
45.0	290.05	156.43	114.25	83.86	69.69	60.39	54.69	50.10	46.00
90.0	169.16	124.16	85.58	71.85	62.44	56.24	51.53	46.33	42.79
135.0	291.16	215.38	124.88	87.18	72.90	63.82	57.46	52.70	48.49
180.0	298.91	282.30	282.30	122.28	91.61	74.56	66.59	58.07	52.92
225.0	212.61	161.80	119.62	87.96	68.58	61.72	55.69	50.93	45.50
270.0	282.30	282.30	155.99	115.86	87.62	71.46	64.15	58.01	52.03
315.0	202.82	151.34	112.04	80.54	68.97	61.72	54.74	49.98	45.78
360.0	143.75	104.51	74.95	65.37	58.67	53.47	47.94	44.17	41.02

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	37.92	35.98	34.04	32.66	31.61	30.56	30.00	29.67	29.61
45.0	41.74	39.08	36.98	34.76	33.21	31.94	30.67	29.95	29.50
90.0	39.97	37.70	35.81	33.82	32.44	31.33	30.44	29.61	29.28
135.0	43.84	40.91	38.47	36.53	34.43	32.99	31.83	30.83	29.89
180.0	48.55	44.62	40.63	38.19	36.20	34.10	32.71	31.50	30.33
225.0	42.18	39.47	36.70	35.09	33.27	32.11	31.11	30.17	29.56
270.0	47.66	43.45	40.80	38.58	36.37	34.87	33.54	32.44	31.44
315.0	41.68	39.08	37.09	34.98	33.54	32.38	31.39	30.44	29.89
360.0	37.92	35.98	34.04	32.66	31.61	30.56	30.00	29.67	29.61

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	29.78	30.28	30.56	30.72	30.67	29.67	28.06	25.41	22.97
45.0	29.39	29.45	29.67	30.11	30.39	30.17	29.50	27.84	25.63
90.0	29.28	29.50	29.84	30.00	30.06	29.61	28.73	26.51	24.08
135.0	29.50	29.23	29.28	29.61	30.00	30.22	29.95	29.06	26.96
180.0	29.56	29.06	28.95	29.12	29.39	29.61	29.84	29.67	28.95
225.0	29.23	29.06	29.23	29.56	29.89	30.11	29.78	29.01	27.40
270.0	30.78	30.28	30.17	30.17	30.39	30.56	30.61	30.17	28.78
315.0	29.61	29.67	29.72	29.95	30.06	30.06	29.34	27.73	25.91
360.0	29.78	30.28	30.56	30.72	30.67	29.67	28.06	25.41	22.97

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.59	18.38	17.10	16.38	15.67	15.22	14.72	14.28	13.84
45.0	23.19	20.54	18.65	17.38	16.33	15.78	15.33	14.72	14.34
90.0	21.70	19.48	17.71	16.72	16.11	15.55	15.00	14.61	14.12
135.0	24.58	22.20	19.98	18.10	16.94	16.27	15.61	15.17	14.67
180.0	27.01	24.85	22.20	19.93	17.93	16.83	16.00	15.44	15.00
225.0	25.08	22.03	19.76	17.93	16.88	16.22	15.55	15.06	14.61
270.0	26.85	24.19	21.81	19.26	17.99	16.99	16.38	15.72	15.22
315.0	23.36	20.54	18.65	17.49	16.66	15.94	15.44	15.00	14.56
360.0	20.59	18.38	17.10	16.38	15.67	15.22	14.72	14.28	13.84

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.51	13.12	12.84	12.51	12.23	11.96	11.62	11.35	10.96
45.0	13.95	13.62	13.17	12.84	12.57	12.29	11.96	11.68	11.40
90.0	13.78	13.34	13.06	12.79	12.51	12.12	11.85	11.57	11.24
135.0	14.23	13.84	13.51	13.12	12.84	12.51	12.23	11.90	11.62
180.0	14.45	14.06	13.73	13.34	12.95	12.68	12.40	12.07	11.73
225.0	14.23	13.78	13.40	13.06	12.79	12.40	12.12	11.79	11.46
270.0	14.78	14.34	13.89	13.51	13.06	12.73	12.40	12.07	11.73
315.0	14.12	13.73	13.40	13.01	12.68	12.29	12.01	11.68	11.40
360.0	13.51	13.12	12.84	12.51	12.23	11.96	11.62	11.35	10.96

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.68	10.41	10.13	9.91	9.69	9.47	9.24	8.97	8.97
45.0	11.07	10.74	10.41	10.13	9.91	9.69	9.47	9.24	8.97
90.0	10.90	10.52	10.30	10.02	9.80	9.58	9.41	9.13	8.97
135.0	11.29	10.90	10.57	10.30	9.96	9.80	9.58	9.35	9.13
180.0	11.51	11.13	10.79	10.52	10.19	9.96	9.74	9.52	9.35
225.0	11.18	10.85	10.57	10.24	9.96	9.80	9.58	9.35	9.13
270.0	11.35	11.07	10.74	10.46	10.19	9.91	9.69	9.52	9.30
315.0	11.02	10.79	10.46	10.13	9.91	9.69	9.52	9.24	9.08
360.0	10.68	10.41	10.13	9.91	9.69	9.47	9.24	8.97	8.97

Intensity data(cd)

C/γ(°)	90.0
0.0	9.02
45.0	8.97
90.0	9.02
135.0	9.02
180.0	9.13
225.0	8.97
270.0	9.02
315.0	9.02
360.0	9.02