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NATA

LumCAT: 2-2641-L
Luminaire: 92.70.412.00
LampCAT: LUMINUS CXM-14-AC40
Ballast type: AC

Report No: 20231013-B012	Voltage(V): 33.9400
Test No: 20231013-C012	Current(A): 0.5300
Number of Lamps: 1	Power (W): 17.9880
Lamp flux(lm): 2320.0	PF: 0.0000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2130.54, Efficiency(%): 91.83% , Luminous Efficacy(lm/W): 118.44
Central intensity(cd): 4667.416, Maximum intensity(cd): 4667.416
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=37.2
[C90/270]Total=37.2
Field angle(10%Imax): [C0/180]Total=65.6
[C90/270]Total=65.6
Maximum s/h(1/2): C0_180=0.60 C90_270=0.60
Maximum s/h(1/4): C0_180=0.61 C90_270=0.61
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.84%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.047%

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

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4667.416	0.000	0	0.00%	0.00%
1.0	4659.320	4.463	4.463	0.19%	0.21%
2.0	4628.806	13.331	17.794	0.57%	0.84%
3.0	4587.914	22.043	39.837	0.95%	1.87%
4.0	4518.999	30.484	70.321	1.31%	3.30%
5.0	4439.082	38.537	108.858	1.66%	5.11%
6.0	4340.137	46.137	154.995	1.99%	7.27%
7.0	4220.297	53.134	208.13	2.29%	9.77%
8.0	4092.222	59.491	267.621	2.56%	12.56%
9.0	3958.128	65.244	332.865	2.81%	15.62%
10.0	3809.296	70.292	403.157	3.03%	18.92%
11.0	3650.985	74.544	477.7	3.21%	22.42%
12.0	3481.465	77.968	555.668	3.36%	26.08%
13.0	3317.826	80.690	636.359	3.48%	29.87%
14.0	3145.468	82.730	719.088	3.57%	33.75%
15.0	2980.099	84.095	803.183	3.62%	37.70%
16.0	2796.879	84.649	887.832	3.65%	41.67%
17.0	2615.942	84.292	972.124	3.63%	45.63%
18.0	2440.679	83.373	1055.497	3.59%	49.54%
19.0	2268.598	81.932	1137.428	3.53%	53.39%
20.0	2093.542	79.839	1217.268	3.44%	57.13%
21.0	1912.882	76.931	1294.199	3.32%	60.75%
22.0	1756.301	73.734	1367.933	3.18%	64.21%
23.0	1588.648	70.186	1438.119	3.03%	67.50%
24.0	1389.811	65.120	1503.239	2.81%	70.56%
25.0	1240.965	59.818	1563.057	2.58%	73.36%
26.0	1157.541	56.617	1619.674	2.44%	76.02%
27.0	1048.113	53.962	1673.636	2.33%	78.55%
28.0	930.280	50.089	1723.725	2.16%	80.91%
29.0	824.021	45.897	1769.622	1.98%	83.06%
30.0	711.501	41.459	1811.081	1.79%	85.01%
31.0	618.390	37.009	1848.09	1.60%	86.74%
32.0	530.253	32.907	1880.997	1.42%	88.29%
33.0	449.554	28.865	1909.862	1.24%	89.64%
34.0	377.076	25.016	1934.879	1.08%	90.82%
35.0	313.073	21.433	1956.312	0.92%	91.82%
36.0	262.729	18.334	1974.646	0.79%	92.68%
37.0	235.661	16.255	1990.901	0.70%	93.45%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	181.124	13.912	2004.812	0.60%	94.10%
39.0	133.880	10.752	2015.564	0.46%	94.60%
40.0	106.279	8.376	2023.94	0.36%	95.00%
41.0	86.912	6.879	2030.819	0.30%	95.32%
42.0	73.177	5.816	2036.636	0.25%	95.59%
43.0	62.570	5.028	2041.664	0.22%	95.83%
44.0	54.475	4.418	2046.082	0.19%	96.04%
45.0	49.071	3.979	2050.061	0.17%	96.22%
46.0	44.670	3.666	2053.727	0.16%	96.39%
47.0	40.996	3.407	2057.135	0.15%	96.55%
48.0	37.979	3.193	2060.327	0.14%	96.70%
49.0	35.350	3.011	2063.338	0.13%	96.85%
50.0	32.915	2.846	2066.185	0.12%	96.98%
51.0	30.950	2.702	2068.887	0.12%	97.11%
52.0	29.192	2.581	2071.467	0.11%	97.23%
53.0	27.649	2.473	2073.94	0.11%	97.34%
54.0	26.189	2.373	2076.313	0.10%	97.45%
55.0	24.930	2.282	2078.595	0.10%	97.56%
56.0	23.837	2.204	2080.798	0.09%	97.67%
57.0	22.736	2.129	2082.928	0.09%	97.77%
58.0	21.823	2.061	2084.988	0.09%	97.86%
59.0	20.986	2.001	2086.99	0.09%	97.96%
60.0	20.204	1.946	2088.936	0.08%	98.05%
61.0	19.478	1.894	2090.829	0.08%	98.14%
62.0	18.869	1.848	2092.677	0.08%	98.22%
63.0	18.253	1.805	2094.483	0.08%	98.31%
64.0	17.720	1.765	2096.248	0.08%	98.39%
65.0	17.250	1.731	2097.978	0.07%	98.47%
66.0	16.786	1.698	2099.677	0.07%	98.55%
67.0	16.302	1.664	2101.34	0.07%	98.63%
68.0	15.859	1.629	2102.969	0.07%	98.71%
69.0	15.430	1.596	2104.566	0.07%	98.78%
70.0	14.980	1.562	2106.127	0.07%	98.85%
71.0	14.544	1.526	2107.653	0.07%	98.93%
72.0	14.157	1.492	2109.146	0.06%	99.00%
73.0	13.700	1.457	2110.602	0.06%	99.06%
74.0	13.319	1.420	2112.023	0.06%	99.13%
75.0	12.946	1.388	2113.411	0.06%	99.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.579	1.355	2114.766	0.06%	99.26%
77.0	12.192	1.321	2116.086	0.06%	99.32%
78.0	11.853	1.287	2117.373	0.06%	99.38%
79.0	11.520	1.256	2118.629	0.05%	99.44%
80.0	11.188	1.224	2119.854	0.05%	99.50%
81.0	10.835	1.191	2121.045	0.05%	99.55%
82.0	10.503	1.157	2122.202	0.05%	99.61%
83.0	10.199	1.125	2123.327	0.05%	99.66%
84.0	9.950	1.098	2124.425	0.05%	99.71%
85.0	9.721	1.074	2125.498	0.05%	99.76%
86.0	9.500	1.051	2126.549	0.05%	99.81%
87.0	9.299	1.029	2127.578	0.04%	99.86%
88.0	9.092	1.007	2128.585	0.04%	99.91%
89.0	8.905	0.986	2129.572	0.04%	99.95%
90.0	8.815	0.972	2130.543	0.04%	100.00%

Zonal flux distribution table

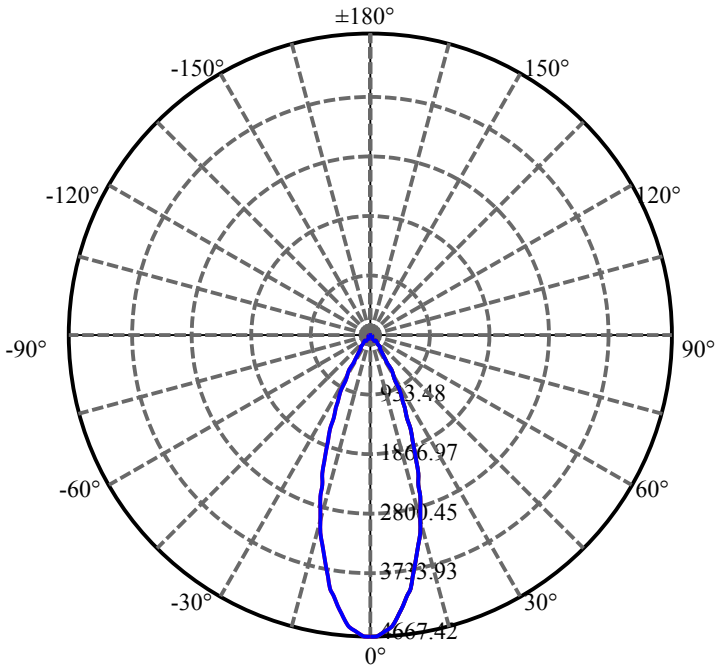
ZONAL LUMEN SUMMARY

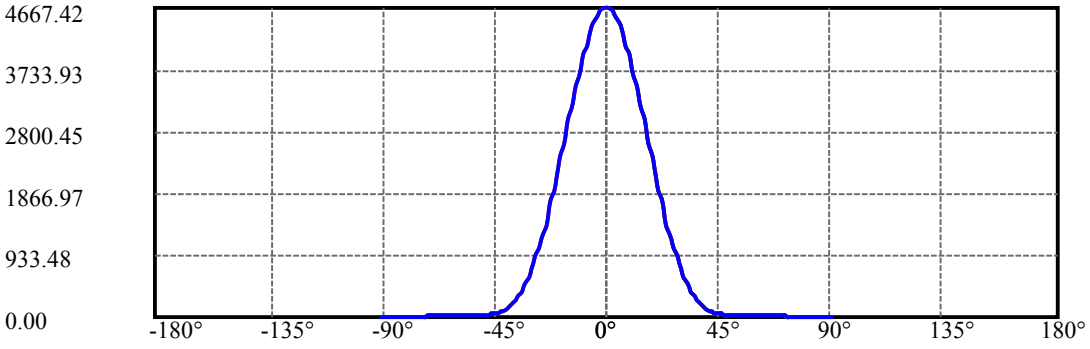
Zone	Lumens	%Lamp	%Fixt
0-30	1811.08	78.06%	85.01%
0-40	2023.94	87.24%	95.00%
0-60	2088.94	90.04%	98.05%
0-90	2129.57	91.79%	99.95%
0-120	2129.57	91.79%	99.95%
0-180	2130.54	91.83%	100.00%
60-90	40.64	1.75%	1.91%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.61	1704.44	73.47%	80.00%

ZONAL LUMEN SUMMARY

0-10	403.16
10-20	814.11
20-30	593.81
30-40	212.86
40-50	42.24
50-60	22.75
60-70	17.19
70-80	13.73
80-90	9.72
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):

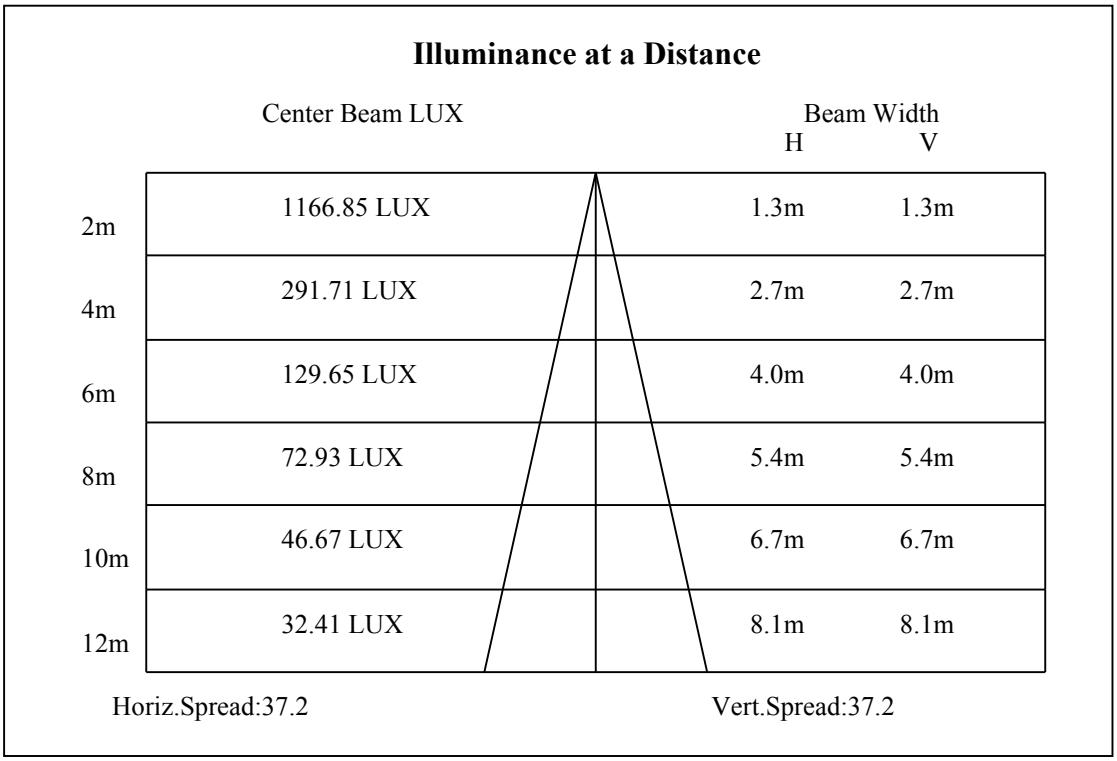
C0/C180:

C90/C270:

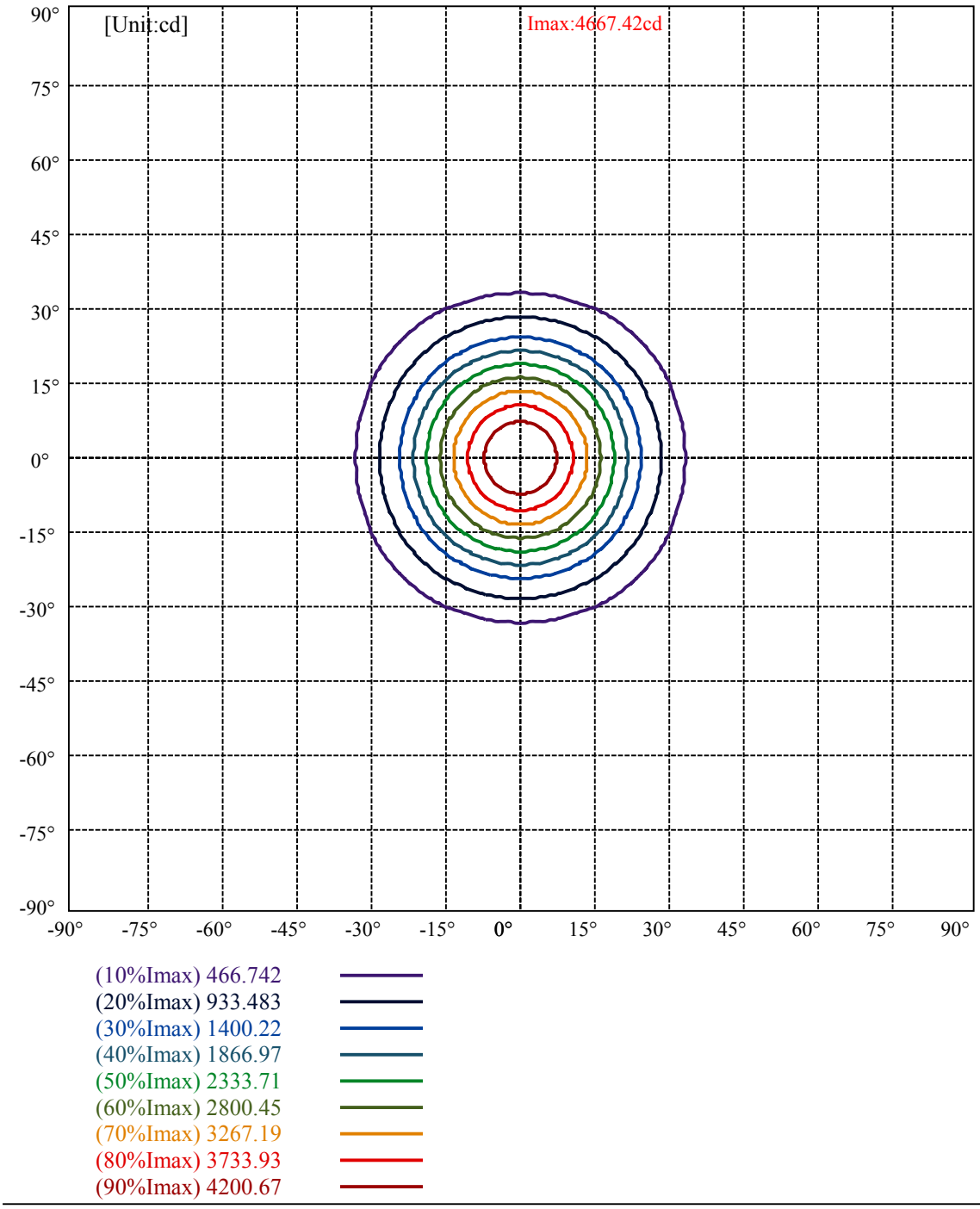
Field angle(10%Imax):C0/180Left:32.8 Right:32.8
:C90/270Left:32.8 Right:32.8

Beam Angle(50%Imax):C0/180Left:18.6 Right:18.6
:C90/270Left:18.6 Right:18.6

Lux distance Curve



ISO-Intensity(V-H)

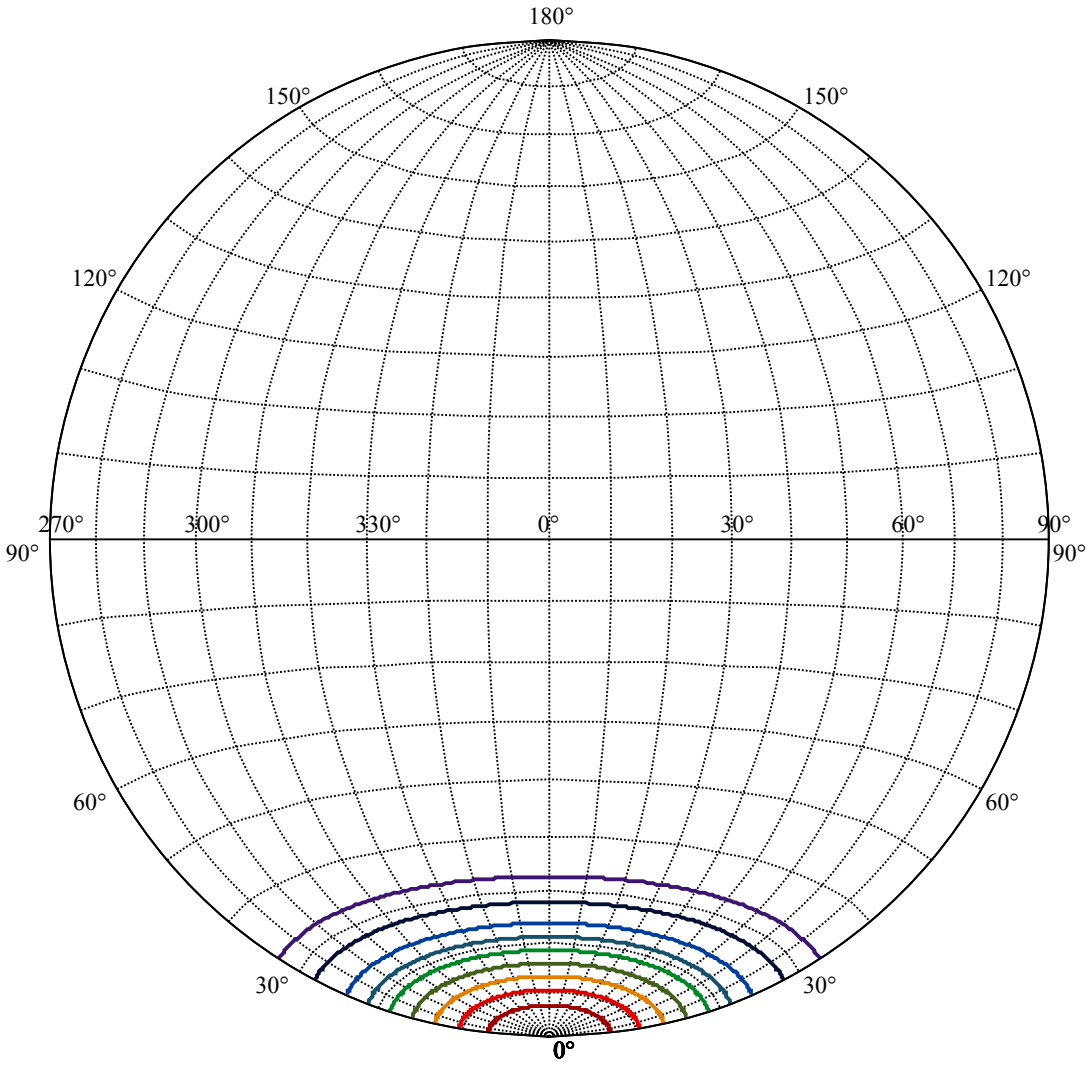


Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



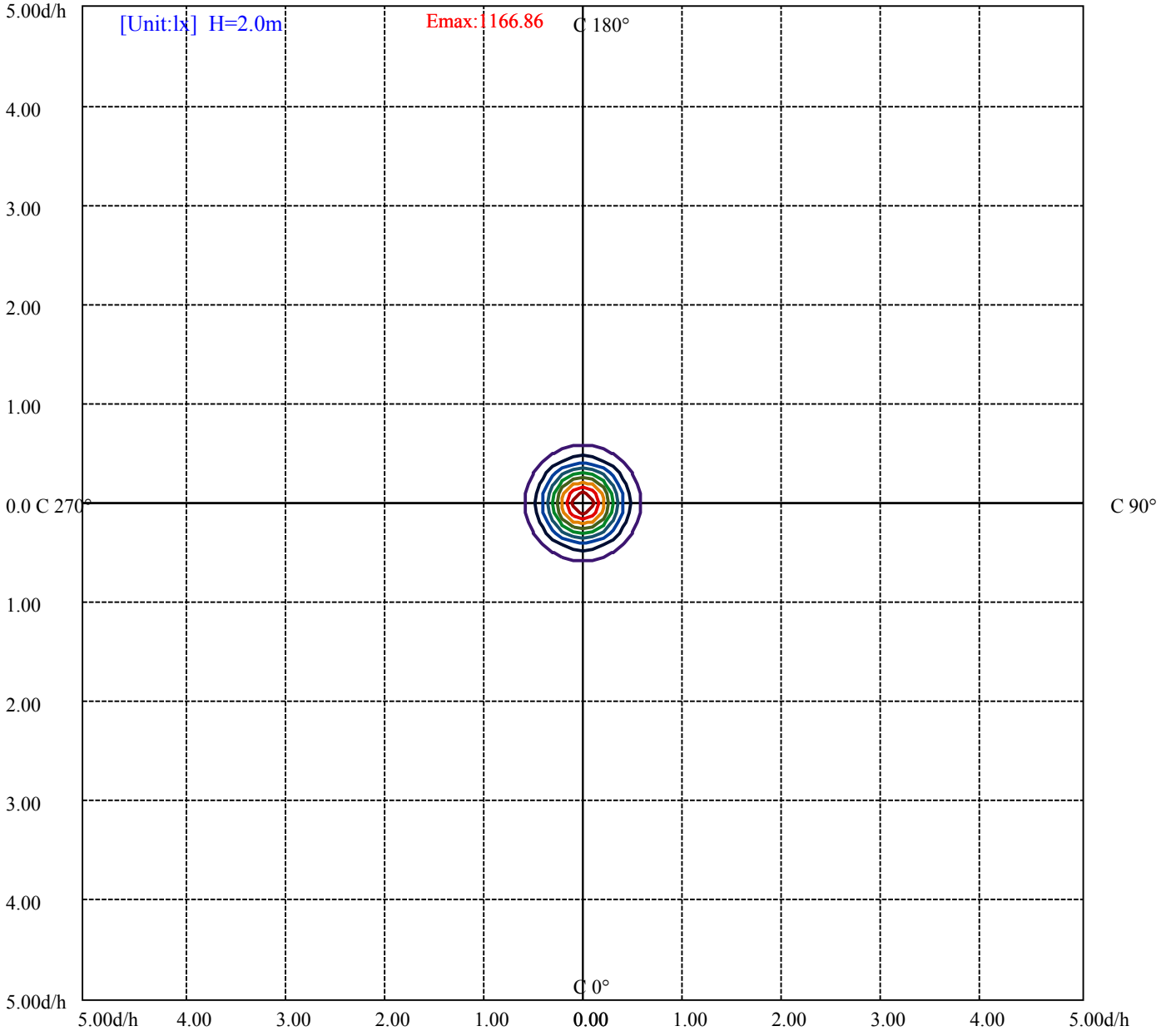
House [Unit:cd] Road

Imax:4667.42

(10%Imax) 466.742
(20%Imax) 933.483
(30%Imax) 1400.22
(40%Imax) 1866.97
(50%Imax) 2333.71
(60%Imax) 2800.45
(70%Imax) 3267.19
(80%Imax) 3733.93
(90%Imax) 4200.67

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

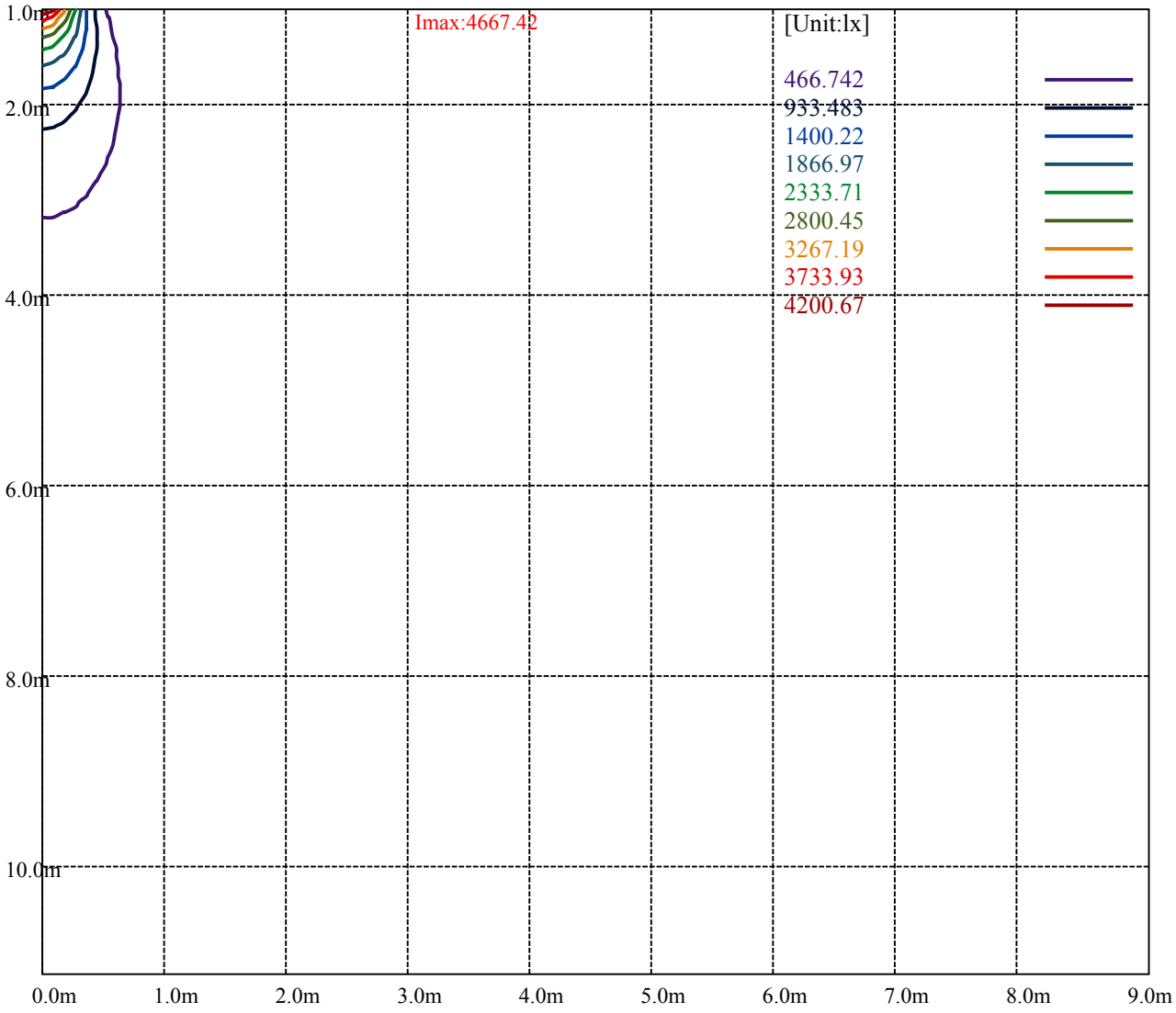
ISO illuminance diagram



(10%Emax) 116.6852
(20%Emax) 233.3707
(30%Emax) 350.055
(40%Emax) 466.7425
(50%Emax) 583.4275
(60%Emax) 700.1125
(70%Emax) 816.7975
(80%Emax) 933.4825
(90%Emax) 1050.167

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

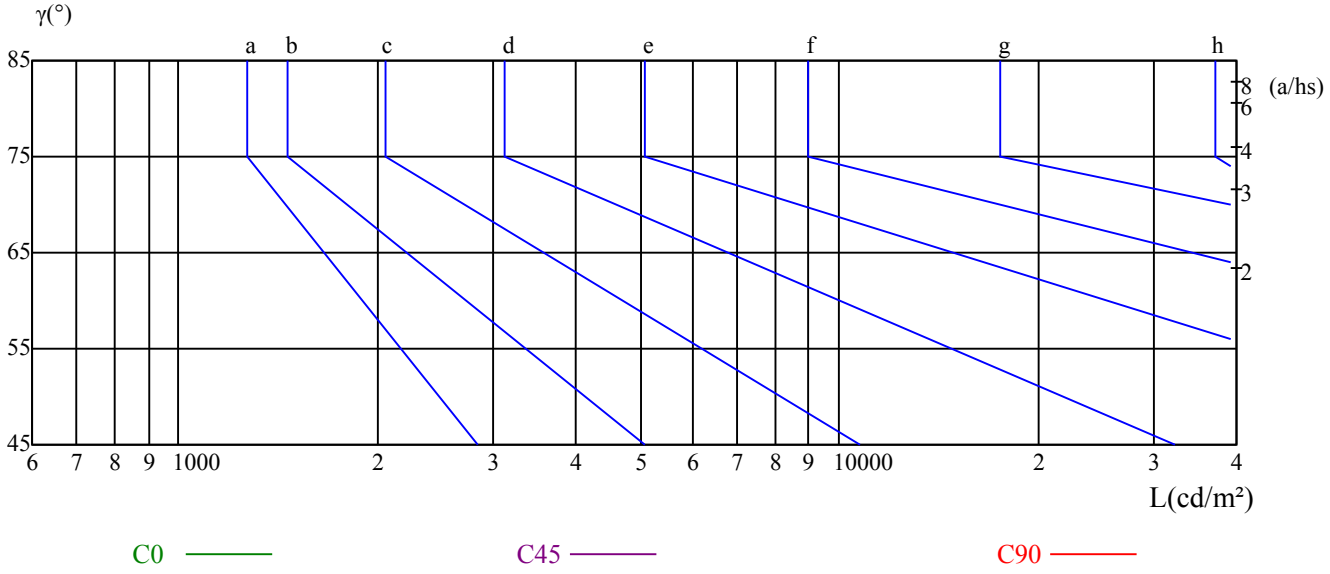
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

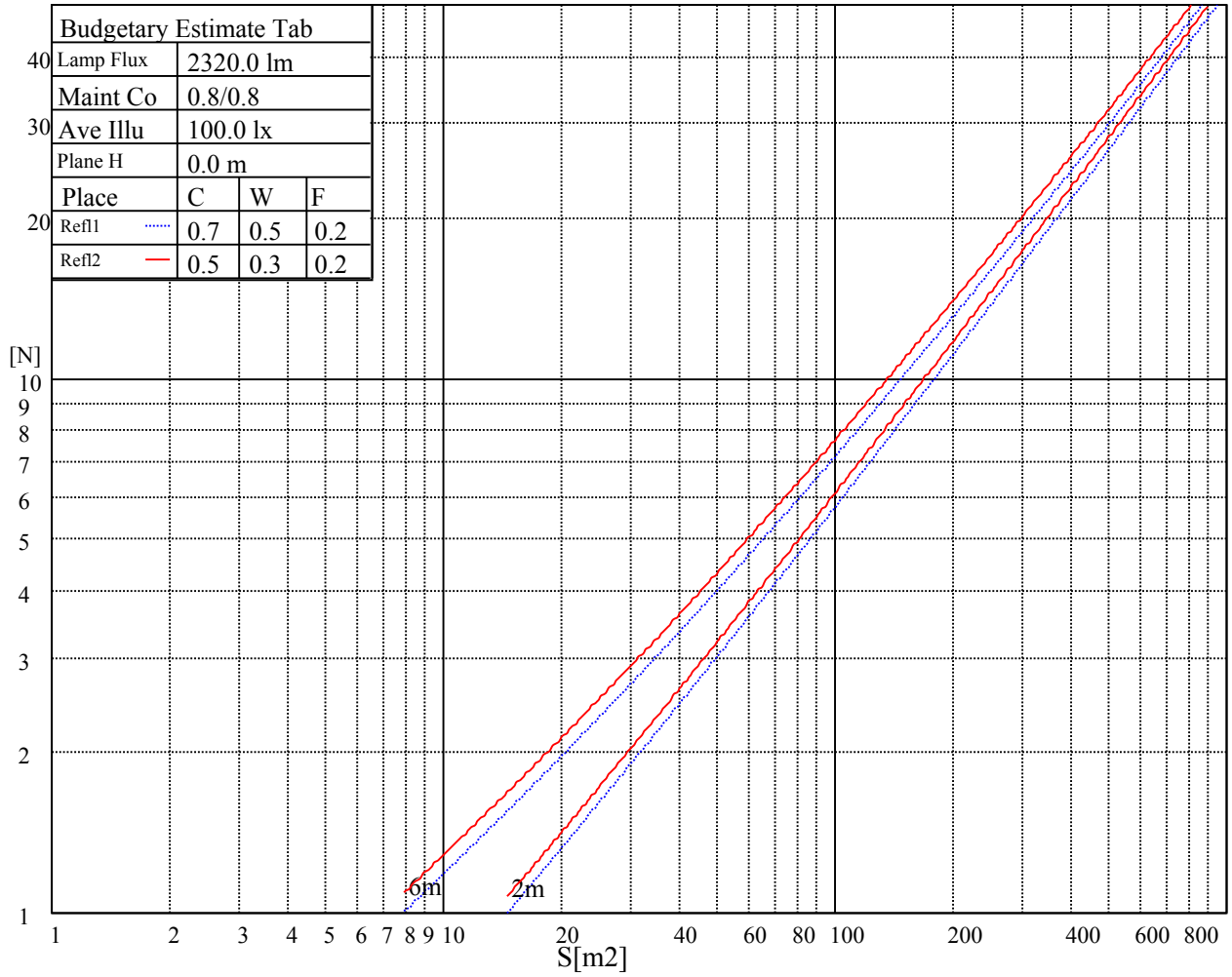


Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions	Viewed crosswise					Viewed endwise				
X Y										
2H 2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
3H	非数字	非数字	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

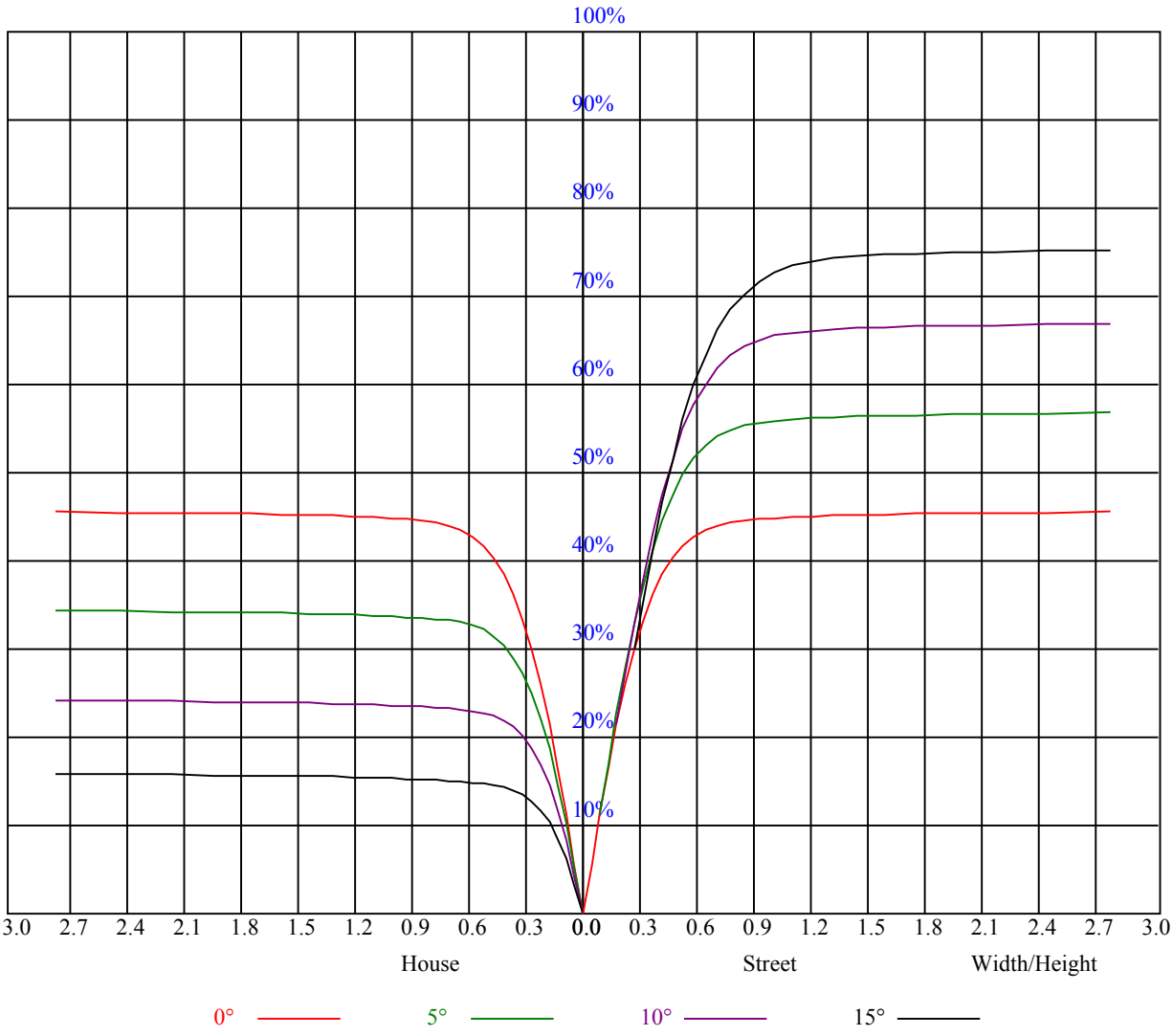


Equipment: GMS1980 Date: 2023/10/13 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	1.00	0.98	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.93	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.86	0.83	0.89	0.86	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.77
4	0.86	0.81	0.78	0.85	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.76	0.79	0.77	0.75	0.73
5	0.81	0.77	0.73	0.81	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
6	0.77	0.73	0.69	0.77	0.72	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.66
7	0.74	0.69	0.66	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.63
8	0.71	0.66	0.62	0.70	0.66	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.61
9	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.58
10	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.56

Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
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	4665.20	4619.81	4573.31	4525.71	4415.00	4323.12	4223.48	4097.27	3938.41
45.0	4665.20	4678.49	4645.83	4612.62	4553.39	4454.86	4377.92	4247.28	4121.63
90.0	4675.72	4648.60	4614.28	4552.83	4458.18	4381.24	4279.39	4125.50	3993.21
135.0	4663.54	4674.61	4645.27	4613.72	4549.51	4463.71	4350.79	4252.26	4133.25
180.0	4665.20	4659.11	4658.01	4639.74	4585.49	4530.14	4452.64	4335.85	4237.32
225.0	4665.20	4664.09	4618.15	4561.69	4508.00	4427.18	4295.99	4195.80	4069.60
270.0	4675.72	4666.86	4658.01	4621.47	4562.24	4500.80	4427.73	4302.08	4192.48
315.0	4663.54	4662.99	4617.60	4575.53	4520.17	4431.61	4313.15	4206.32	4051.88
360.0	4665.20	4619.81	4573.31	4525.71	4415.00	4323.12	4223.48	4097.27	3938.41

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3802.24	3621.79	3463.47	3305.16	3115.30	2952.56	2787.05	2611.58	2405.11
45.0	3998.19	3867.56	3721.98	3526.02	3377.12	3215.49	3049.98	2843.51	2674.13
90.0	3860.36	3721.42	3525.47	3366.05	3209.40	3010.13	2839.09	2668.60	2456.59
135.0	3966.09	3839.88	3699.83	3502.78	3347.79	3191.69	3036.14	2825.25	2658.63
180.0	4123.29	3961.66	3826.59	3690.42	3497.24	3347.79	3195.56	3027.84	2833.55
225.0	3933.98	3759.06	3617.36	3415.87	3265.31	3105.89	2913.81	2751.63	2589.44
270.0	4067.94	3932.32	3760.17	3602.97	3450.74	3250.36	3089.84	2878.39	2717.86
315.0	3912.95	3770.69	3593.00	3442.44	3279.70	3089.84	2929.31	2768.23	2592.21
360.0	3802.24	3621.79	3463.47	3305.16	3115.30	2952.56	2787.05	2611.58	2405.11

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2239.61	2069.67	1908.04	1711.53	1558.20	1415.39	1100.04	1100.04	1016.02
45.0	2508.07	2298.28	2130.56	1925.75	1766.89	1611.34	1438.09	1300.81	1172.39
90.0	2290.53	2125.02	1924.09	1763.57	1614.11	1437.53	1100.43	1100.43	1071.70
135.0	2493.68	2329.83	2164.33	1955.64	1800.65	1615.77	1469.64	1341.22	1185.67
180.0	2675.24	2503.09	2333.71	2133.33	1982.21	1776.30	1628.50	1486.24	1332.36
225.0	2380.20	2217.47	2055.83	1893.65	1745.30	1569.83	1438.64	1098.99	1098.99
270.0	2556.78	2389.06	2180.38	2028.71	1879.81	1719.84	1550.45	1408.20	1291.40
315.0	2381.31	2216.36	2051.40	1890.88	1703.23	1563.19	1392.70	1091.79	1091.79
360.0	2239.61	2069.67	1908.04	1711.53	1558.20	1415.39	1100.04	1100.04	1016.02

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	906.58	780.71	688.82	580.99	501.17	428.66	365.06	295.92	245.83
45.0	1055.04	915.00	812.04	716.28	626.60	524.20	449.47	381.39	309.98
90.0	933.87	831.25	734.65	645.15	541.41	464.25	394.23	320.55	266.80
135.0	1068.88	958.17	827.54	732.33	642.66	558.52	461.65	395.22	334.89
180.0	1202.83	1092.13	983.63	849.68	744.51	652.07	562.95	464.42	394.12
225.0	1044.74	932.71	826.65	700.61	608.06	504.44	430.54	364.01	294.48
270.0	1163.53	1028.47	918.87	786.02	690.81	599.48	496.52	425.12	360.35
315.0	1009.43	903.81	799.97	680.96	591.90	510.42	436.02	369.98	298.13
360.0	906.58	780.71	688.82	580.99	501.17	428.66	365.06	295.92	245.83

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	202.32	165.23	126.93	104.01	86.13	72.68	60.72	53.80	47.27
45.0	283.96	283.96	160.80	130.52	106.67	84.64	72.02	62.33	55.24
90.0	219.53	169.99	137.22	112.15	88.40	74.67	64.43	56.79	49.71
135.0	280.09	280.09	173.70	140.60	108.94	90.34	76.22	63.32	55.96
180.0	333.78	291.71	291.71	172.98	132.30	106.94	87.62	70.85	61.28
225.0	245.38	201.76	165.29	127.59	103.84	85.52	72.51	62.72	54.25
270.0	290.05	290.05	228.83	157.15	121.28	99.30	82.75	70.58	59.78
315.0	246.71	202.48	164.51	126.04	102.68	81.20	69.14	60.17	52.31
360.0	202.32	165.23	126.93	104.01	86.13	72.68	60.72	53.80	47.27

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	43.23	39.85	36.48	34.15	32.05	29.78	28.23	26.85	25.63
45.0	48.49	44.39	40.96	38.03	34.82	32.60	30.78	28.78	27.34
90.0	45.45	41.85	38.91	35.70	33.49	31.55	29.45	27.95	26.57
135.0	50.37	45.00	41.46	38.47	35.87	33.05	31.16	29.50	27.95
180.0	54.41	49.21	44.17	41.02	38.19	35.15	33.10	31.22	29.56
225.0	49.21	44.23	40.96	38.14	35.20	33.10	31.22	29.12	27.62
270.0	53.80	48.99	45.11	41.07	38.30	35.32	33.21	31.27	29.17
315.0	47.60	43.84	39.91	37.25	34.87	32.77	30.44	28.84	27.34
360.0	43.23	39.85	36.48	34.15	32.05	29.78	28.23	26.85	25.63

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	24.30	23.30	22.42	21.59	20.65	19.98	19.21	18.60	18.10
45.0	26.07	24.63	23.64	22.53	21.64	20.87	20.15	19.32	18.76
90.0	25.08	24.02	23.08	21.92	21.09	20.37	19.71	18.93	18.38
135.0	26.35	25.13	24.08	22.86	21.98	20.98	20.26	19.54	18.93
180.0	27.68	26.29	25.08	23.80	22.81	21.75	20.92	20.26	19.60
225.0	26.29	25.08	23.75	22.75	21.92	21.09	20.20	19.54	18.82
270.0	27.68	26.35	25.08	23.75	22.86	21.98	21.15	20.26	19.60
315.0	26.07	24.63	23.58	22.69	21.64	20.87	20.04	19.37	18.76
360.0	24.30	23.30	22.42	21.59	20.65	19.98	19.21	18.60	18.10

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.44	16.99	16.61	16.16	15.61	15.17	14.78	14.34	13.95
45.0	18.16	17.66	17.21	16.66	16.27	15.83	15.33	14.95	14.39
90.0	17.82	17.38	16.77	16.38	15.89	15.39	15.00	14.50	14.12
135.0	18.27	17.77	17.38	16.88	16.38	16.00	15.55	15.06	14.61
180.0	18.82	18.27	17.82	17.38	16.83	16.44	16.00	15.61	15.11
225.0	18.27	17.77	17.21	16.77	16.33	15.94	15.44	15.00	14.61
270.0	18.99	18.27	17.82	17.33	16.77	16.33	15.94	15.39	14.95
315.0	18.27	17.66	17.16	16.72	16.33	15.78	15.39	15.00	14.61
360.0	17.44	16.99	16.61	16.16	15.61	15.17	14.78	14.34	13.95

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.56	13.17	12.73	12.40	12.07	11.68	11.35	11.07	10.68
45.0	14.06	13.67	13.23	12.84	12.57	12.23	11.79	11.51	11.18
90.0	13.73	13.28	12.95	12.62	12.29	11.85	11.57	11.24	10.90
135.0	14.23	13.78	13.45	13.01	12.62	12.29	11.96	11.57	11.29
180.0	14.72	14.17	13.84	13.45	13.01	12.62	12.34	11.96	11.57
225.0	14.23	13.73	13.40	13.01	12.57	12.18	11.90	11.51	11.24
270.0	14.61	14.06	13.67	13.34	12.95	12.57	12.18	11.85	11.46
315.0	14.12	13.73	13.28	12.90	12.57	12.12	11.73	11.46	11.18
360.0	13.56	13.17	12.73	12.40	12.07	11.68	11.35	11.07	10.68

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.35	10.07	9.91	9.63	9.47	9.24	9.02	8.80	8.75
45.0	10.85	10.52	10.19	9.91	9.63	9.41	9.24	9.02	8.86
90.0	10.52	10.24	9.91	9.69	9.52	9.30	9.13	8.86	8.80
135.0	10.96	10.57	10.24	10.02	9.74	9.52	9.35	9.13	8.86
180.0	11.29	10.85	10.52	10.24	10.02	9.74	9.52	9.35	9.08
225.0	10.79	10.52	10.24	10.02	9.74	9.58	9.35	9.13	8.91
270.0	11.13	10.79	10.41	10.19	9.91	9.69	9.47	9.30	9.08
315.0	10.79	10.46	10.19	9.91	9.74	9.52	9.30	9.13	8.91
360.0	10.35	10.07	9.91	9.63	9.47	9.24	9.02	8.80	8.75

Intensity data(cd)

C/γ(°)	90.0
0.0	8.80
45.0	8.80
90.0	8.80
135.0	8.80
180.0	8.86
225.0	8.80
270.0	8.86
315.0	8.80
360.0	8.80