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NATA

LumCAT: 2-2641-L
Luminaire: 92.70.429.00
LampCAT: CREE CXA1830 LES14
Ballast type: AC

Report No: 20231010-B020	Voltage(V): 35.9600
Test No: 20231010-C020	Current(A): 0.5300
Number of Lamps: 1	Power (W): 19.0580
Lamp flux(lm): 1997.0	PF: 0.0000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1856.24, Efficiency(%): 92.95% , Luminous Efficacy(lm/W): 97.40
Central intensity(cd): 4124.756, Maximum intensity(cd): 4124.756
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=36.8
[C90/270]Total=36.8
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=0.60 C90_270=0.60
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.95%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.151%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4124.757	0.000	0	0.00%	0.00%
1.0	4117.284	3.944	3.944	0.20%	0.21%
2.0	4092.582	11.784	15.727	0.59%	0.85%
3.0	4052.382	19.480	35.207	0.98%	1.90%
4.0	3994.260	26.935	62.142	1.35%	3.35%
5.0	3914.966	34.025	96.167	1.70%	5.18%
6.0	3827.715	40.690	136.857	2.04%	7.37%
7.0	3718.807	46.841	183.698	2.35%	9.90%
8.0	3601.942	52.393	236.091	2.62%	12.72%
9.0	3479.818	57.394	293.485	2.87%	15.81%
10.0	3338.528	61.704	355.189	3.09%	19.13%
11.0	3197.791	65.311	420.5	3.27%	22.65%
12.0	3048.959	68.286	488.786	3.42%	26.33%
13.0	2900.542	70.606	559.391	3.54%	30.14%
14.0	2751.641	72.347	631.739	3.62%	34.03%
15.0	2599.142	73.458	705.197	3.68%	37.99%
16.0	2440.139	73.840	779.036	3.70%	41.97%
17.0	2283.073	73.553	852.589	3.68%	45.93%
18.0	2130.436	72.769	925.359	3.64%	49.85%
19.0	1970.671	71.351	996.709	3.57%	53.70%
20.0	1828.620	69.538	1066.247	3.48%	57.44%
21.0	1678.404	67.342	1133.589	3.37%	61.07%
22.0	1527.012	64.414	1198.003	3.23%	64.54%
23.0	1349.092	60.348	1258.352	3.02%	67.79%
24.0	1208.542	55.919	1314.271	2.80%	70.80%
25.0	1126.307	53.089	1367.36	2.66%	73.66%
26.0	1018.686	50.633	1417.993	2.54%	76.39%
27.0	912.988	47.259	1465.252	2.37%	78.94%
28.0	815.116	43.752	1509.004	2.19%	81.29%
29.0	712.359	39.963	1548.967	2.00%	83.45%
30.0	627.329	36.171	1585.138	1.81%	85.40%
31.0	539.718	32.477	1617.615	1.63%	87.14%
32.0	464.264	28.763	1646.378	1.44%	88.69%
33.0	395.363	25.325	1671.703	1.27%	90.06%
34.0	328.371	21.902	1693.605	1.10%	91.24%
35.0	275.322	18.748	1712.354	0.94%	92.25%
36.0	240.546	16.425	1728.779	0.82%	93.13%
37.0	192.430	14.121	1742.901	0.71%	93.89%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	139.927	11.094	1753.994	0.56%	94.49%
39.0	108.804	8.490	1762.484	0.43%	94.95%
40.0	88.026	6.865	1769.349	0.34%	95.32%
41.0	70.929	5.660	1775.009	0.28%	95.62%
42.0	58.945	4.719	1779.728	0.24%	95.88%
43.0	50.351	4.049	1783.776	0.20%	96.10%
44.0	44.193	3.568	1787.345	0.18%	96.29%
45.0	39.467	3.215	1790.56	0.16%	96.46%
46.0	35.945	2.949	1793.509	0.15%	96.62%
47.0	33.101	2.746	1796.255	0.14%	96.77%
48.0	30.576	2.574	1798.829	0.13%	96.91%
49.0	28.611	2.431	1801.26	0.12%	97.04%
50.0	26.646	2.304	1803.564	0.12%	97.16%
51.0	24.992	2.185	1805.748	0.11%	97.28%
52.0	23.553	2.083	1807.832	0.10%	97.39%
53.0	22.238	1.992	1809.823	0.10%	97.50%
54.0	21.138	1.912	1811.735	0.10%	97.60%
55.0	20.052	1.839	1813.574	0.09%	97.70%
56.0	19.166	1.772	1815.346	0.09%	97.80%
57.0	18.370	1.716	1817.062	0.09%	97.89%
58.0	17.596	1.663	1818.726	0.08%	97.98%
59.0	16.945	1.615	1820.34	0.08%	98.07%
60.0	16.315	1.571	1821.912	0.08%	98.15%
61.0	15.790	1.532	1823.444	0.08%	98.23%
62.0	15.250	1.496	1824.94	0.07%	98.31%
63.0	14.786	1.461	1826.4	0.07%	98.39%
64.0	14.371	1.431	1827.831	0.07%	98.47%
65.0	13.984	1.403	1829.234	0.07%	98.55%
66.0	13.610	1.377	1830.611	0.07%	98.62%
67.0	13.243	1.350	1831.961	0.07%	98.69%
68.0	12.904	1.325	1833.286	0.07%	98.76%
69.0	12.551	1.299	1834.585	0.07%	98.83%
70.0	12.226	1.273	1835.857	0.06%	98.90%
71.0	11.908	1.247	1837.104	0.06%	98.97%
72.0	11.569	1.221	1838.325	0.06%	99.03%
73.0	11.264	1.194	1839.519	0.06%	99.10%
74.0	10.953	1.168	1840.687	0.06%	99.16%
75.0	10.656	1.142	1841.829	0.06%	99.22%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.351	1.115	1842.944	0.06%	99.28%
77.0	10.095	1.090	1844.034	0.05%	99.34%
78.0	9.825	1.066	1845.101	0.05%	99.40%
79.0	9.604	1.044	1846.144	0.05%	99.46%
80.0	9.341	1.021	1847.166	0.05%	99.51%
81.0	9.078	0.996	1848.162	0.05%	99.56%
82.0	8.843	0.972	1849.134	0.05%	99.62%
83.0	8.621	0.949	1850.083	0.05%	99.67%
84.0	8.421	0.928	1851.011	0.05%	99.72%
85.0	8.241	0.909	1851.921	0.05%	99.77%
86.0	8.075	0.892	1852.813	0.04%	99.82%
87.0	7.943	0.877	1853.689	0.04%	99.86%
88.0	7.812	0.863	1854.552	0.04%	99.91%
89.0	7.666	0.848	1855.401	0.04%	99.95%
90.0	7.611	0.838	1856.238	0.04%	100.00%

Zonal flux distribution table

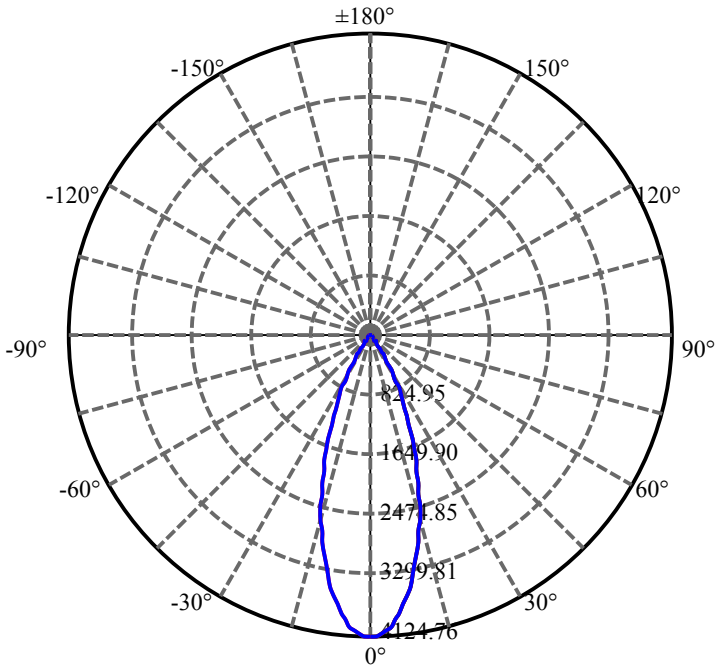
ZONAL LUMEN SUMMARY

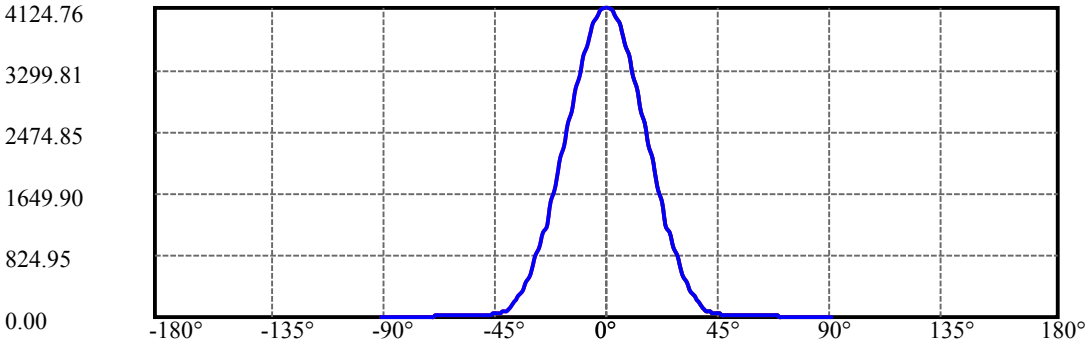
Zone	Lumens	%Lamp	%Fixt
0-30	1585.14	79.37%	85.40%
0-40	1769.35	88.60%	95.32%
0-60	1821.91	91.23%	98.15%
0-90	1855.40	92.91%	99.95%
0-120	1855.40	92.91%	99.95%
0-180	1856.24	92.95%	100.00%
60-90	33.49	1.68%	1.80%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.45	1484.99	74.36%	80.00%

ZONAL LUMEN SUMMARY

0-10	355.19
10-20	711.06
20-30	518.89
30-40	184.21
40-50	34.21
50-60	18.35
60-70	13.95
70-80	11.31
80-90	8.23
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):

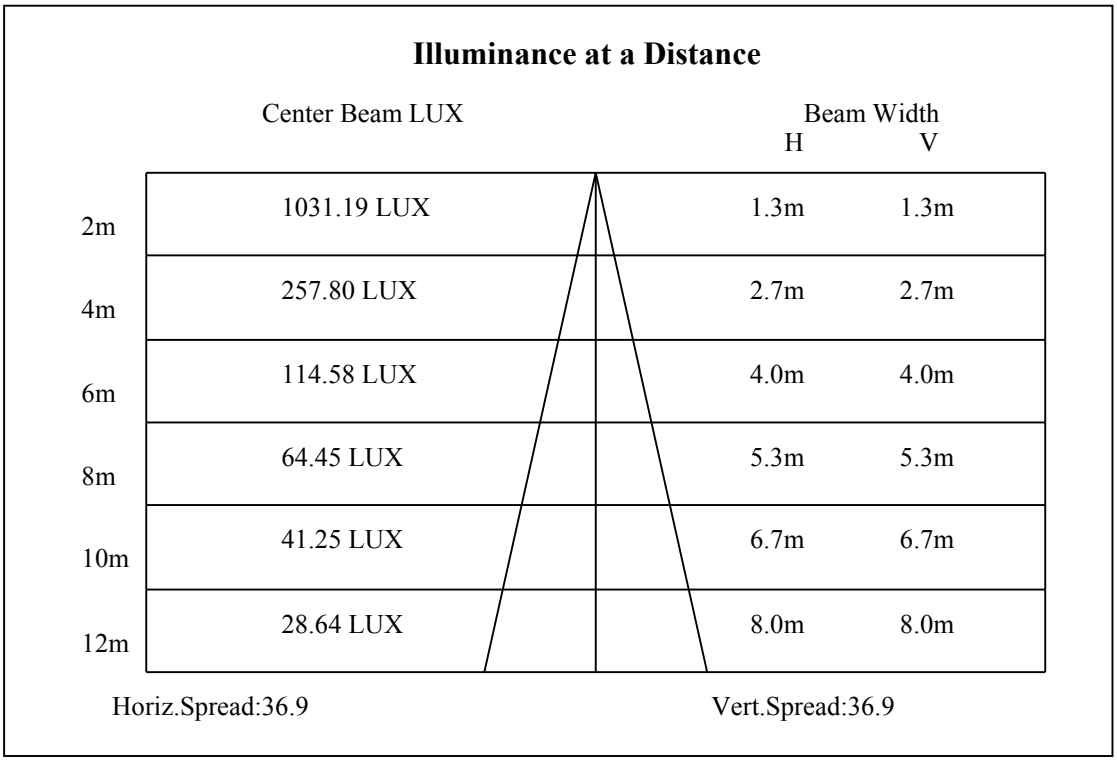
C0/C180:

C90/C270:

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

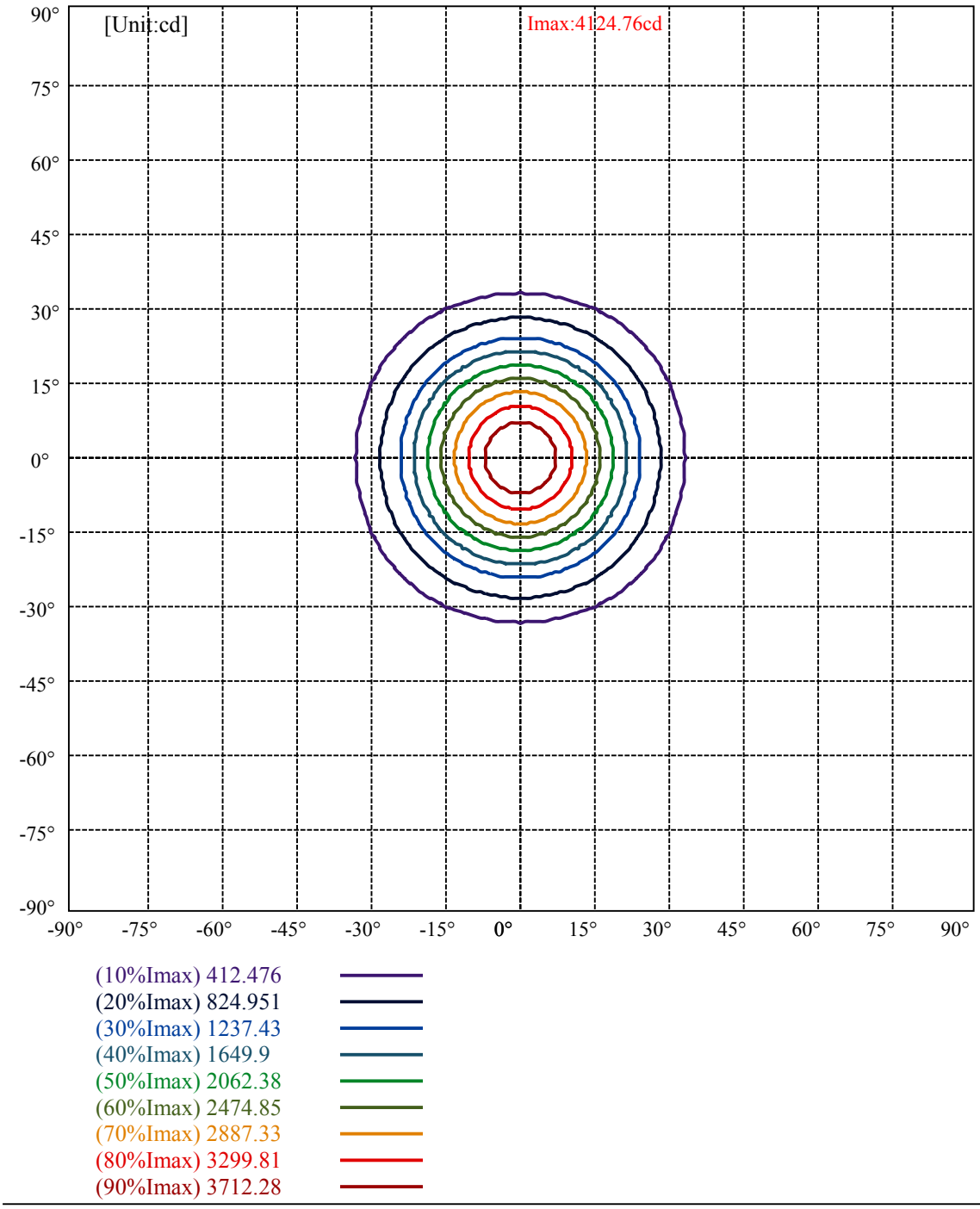
Beam Angle(50%Imax):C0/180Left:18.4 Right:18.4
:C90/270Left:18.4 Right:18.4

Lux distance Curve



Equipment: GMS1980 Date: 2023/10/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

ISO-Intensity(V-H)

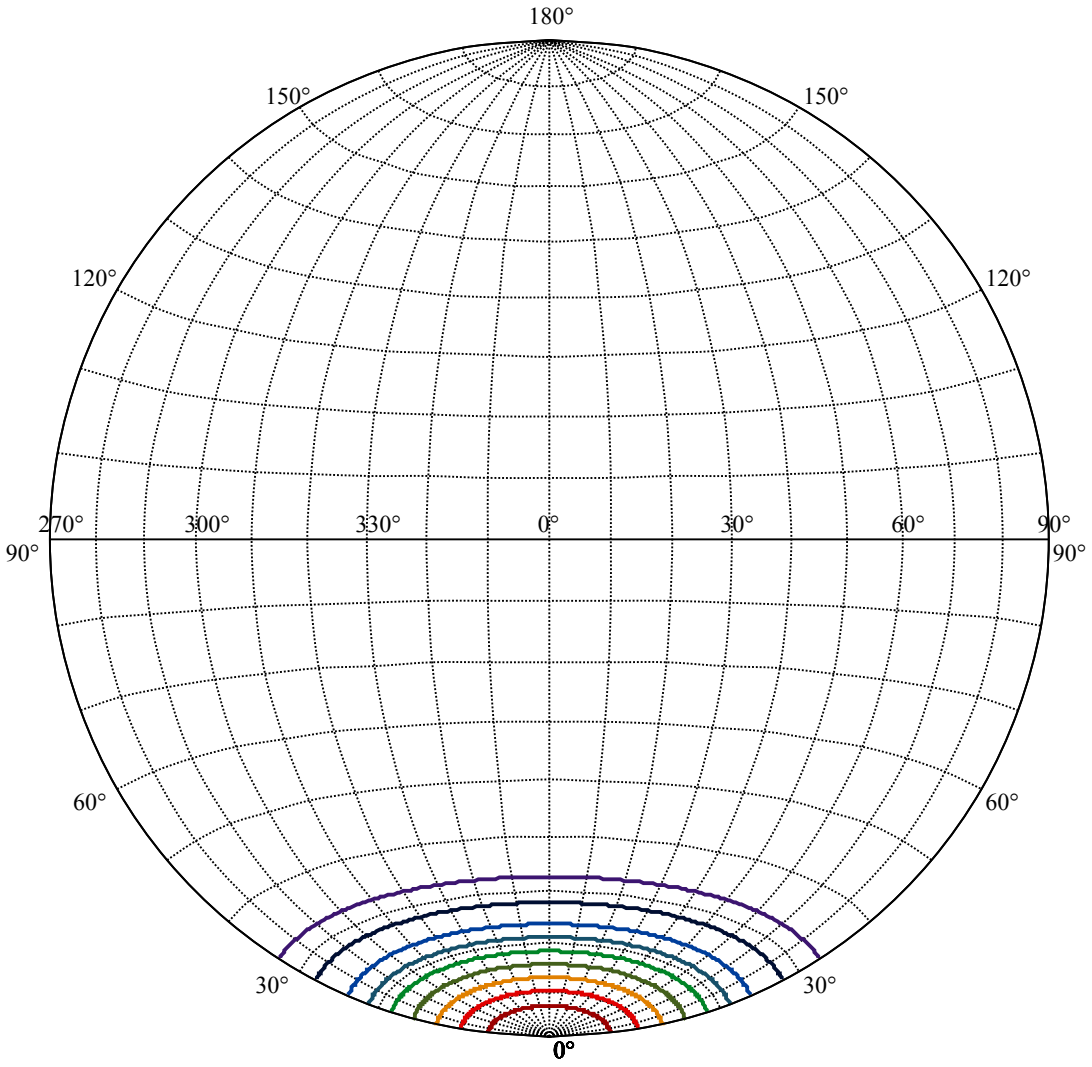


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



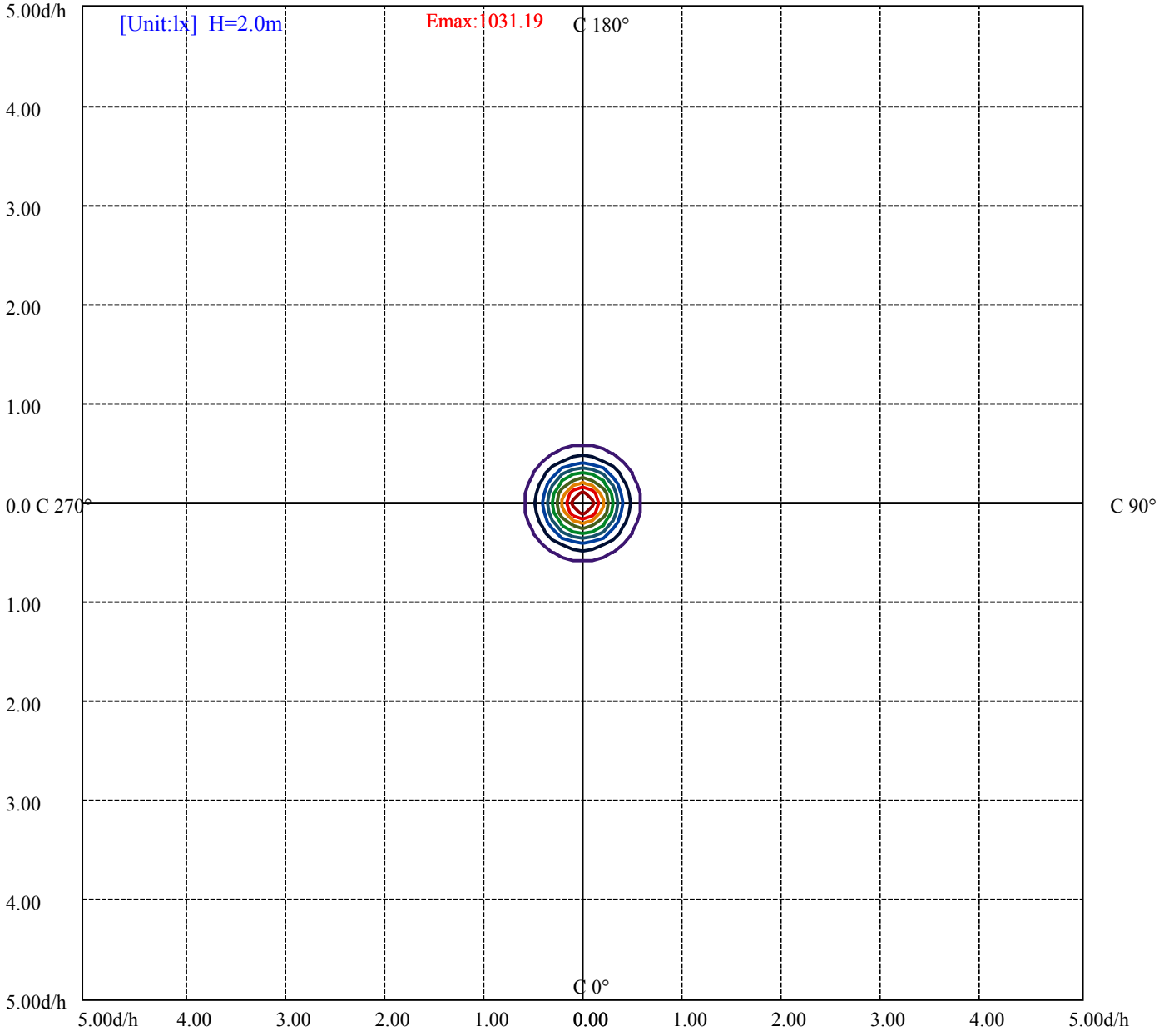
House [Unit:cd] Road

Imax:4124.76

(10%Imax) 412.476
(20%Imax) 824.951
(30%Imax) 1237.43
(40%Imax) 1649.9
(50%Imax) 2062.38
(60%Imax) 2474.85
(70%Imax) 2887.33
(80%Imax) 3299.81
(90%Imax) 3712.28

Equipment: GMS1980 Date: 2023/10/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

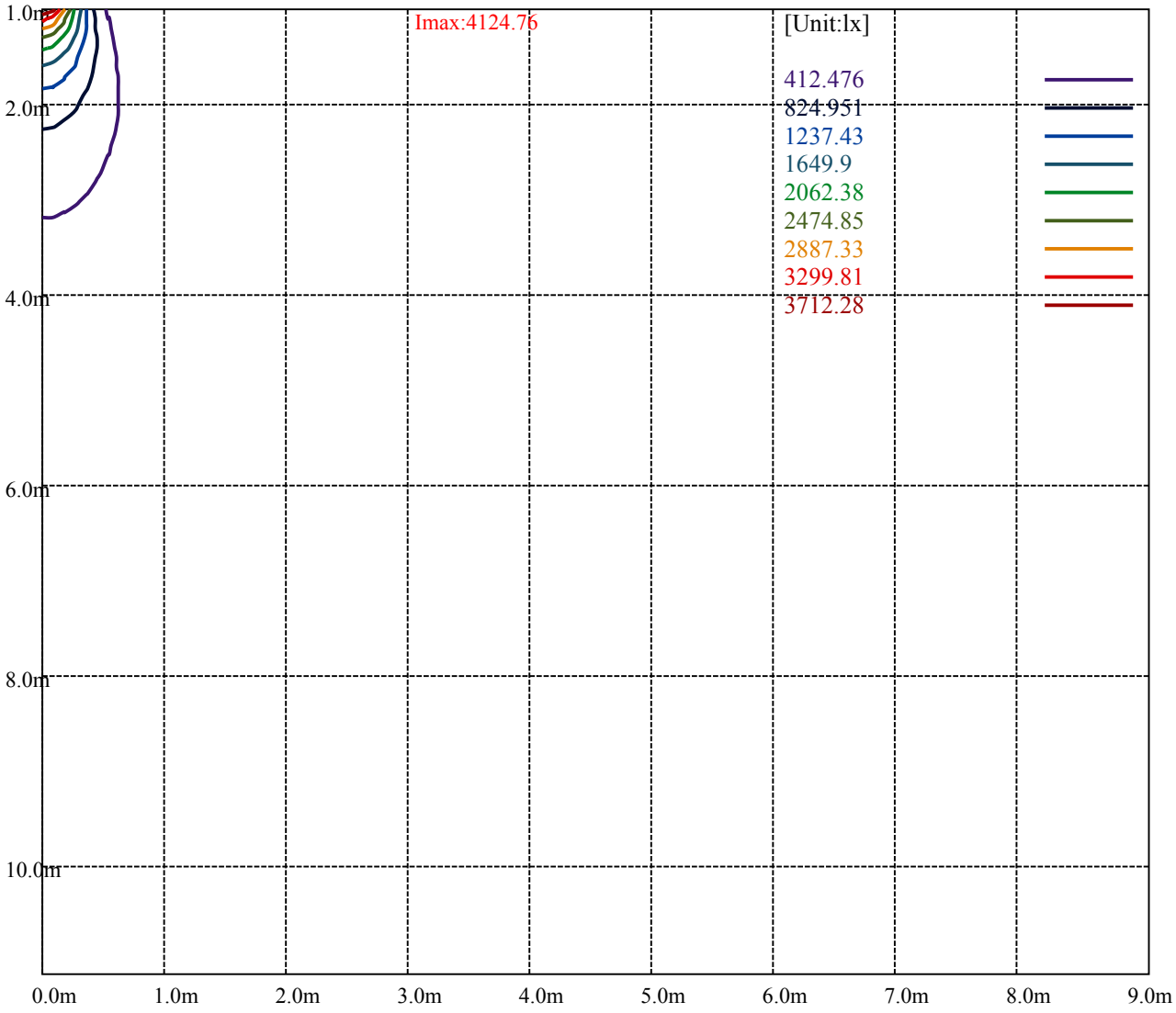
ISO illuminance diagram



(10%Emax) 103.119
(20%Emax) 206.2377
(30%Emax) 309.3575
(40%Emax) 412.475
(50%Emax) 515.595
(60%Emax) 618.7125
(70%Emax) 721.8325
(80%Emax) 824.95
(90%Emax) 928.07

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2023/10/10
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

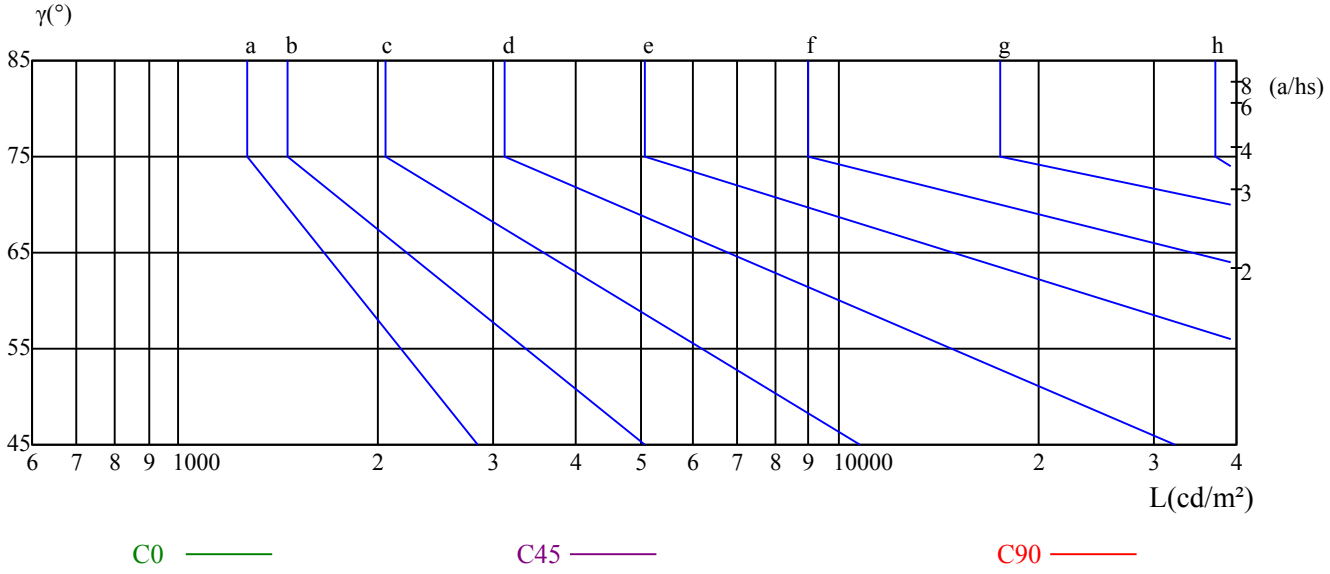
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

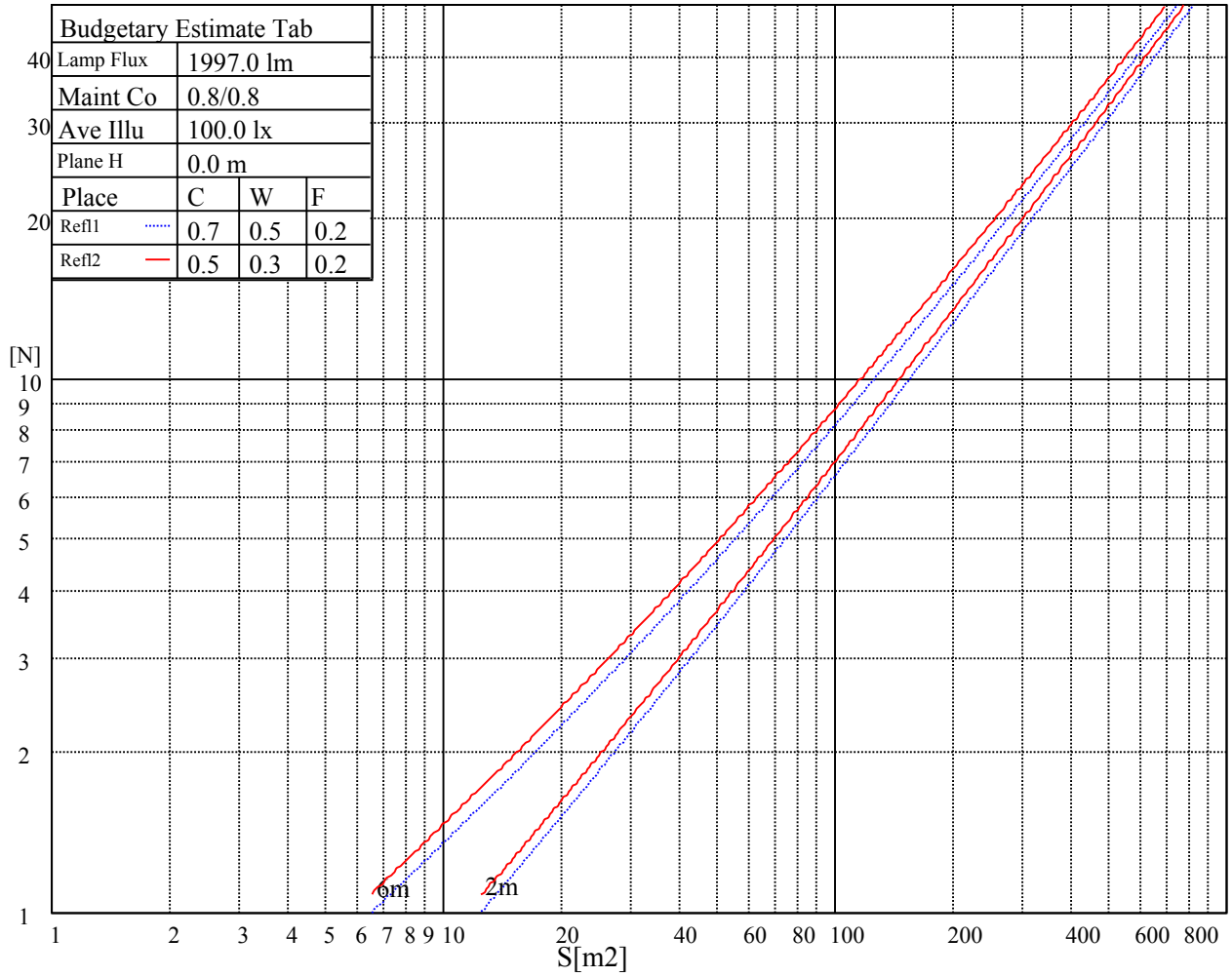
Luminance Limitting Curve



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

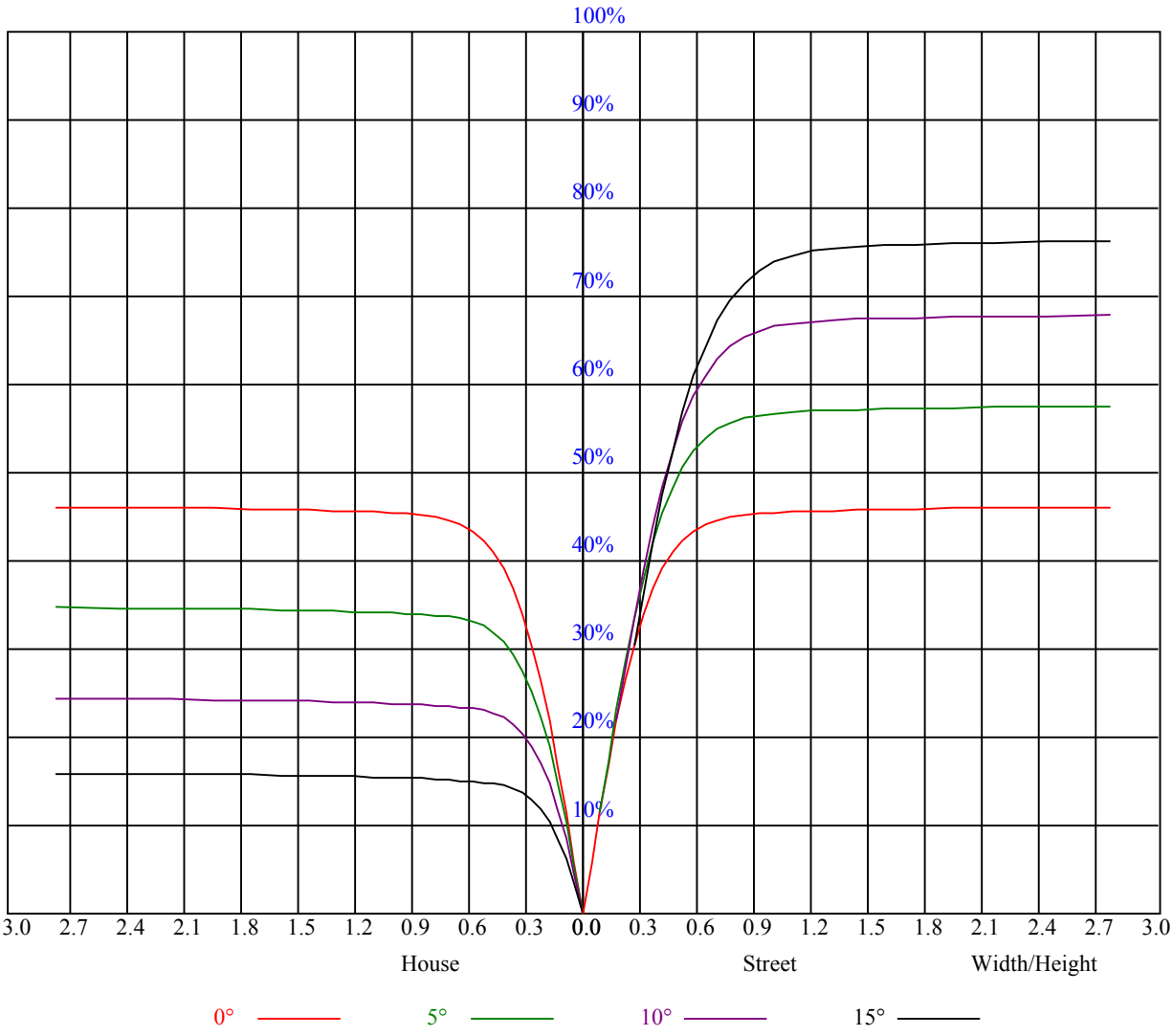


Equipment: GMS1980 Date: 2023/10/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/10/10	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	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	4129.88	4092.24	4050.72	4002.01	3919.53	3824.32	3723.58	3607.34	3489.99
45.0	4117.70	4132.64	4106.07	4066.22	4006.99	3926.73	3855.32	3732.99	3617.86
90.0	4129.88	4104.41	4056.26	4011.42	3933.37	3830.41	3746.28	3604.02	3484.45
135.0	4121.57	4122.13	4101.65	4050.72	3997.58	3896.84	3807.17	3720.26	3575.23
180.0	4129.88	4127.11	4111.61	4094.45	4046.85	3993.71	3923.41	3822.11	3700.89
225.0	4117.70	4110.50	4091.68	4036.33	3980.42	3918.98	3795.54	3700.89	3592.39
270.0	4129.88	4121.02	4119.91	4104.97	4055.70	3997.58	3936.14	3823.22	3728.56
315.0	4121.57	4128.22	4102.75	4052.94	4013.63	3931.16	3834.29	3739.63	3626.16
360.0	4129.88	4092.24	4050.72	4002.01	3919.53	3824.32	3723.58	3607.34	3489.99

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3348.28	3212.11	3034.43	2892.72	2750.47	2581.08	2432.18	2288.82	2143.79
45.0	3504.93	3379.28	3222.08	3080.93	2943.10	2800.28	2613.74	2473.14	2297.67
90.0	3361.02	3192.74	3047.16	2906.56	2732.20	2592.15	2446.57	2298.23	2127.74
135.0	3461.21	3338.32	3209.35	3039.41	2903.79	2764.30	2617.06	2432.18	2287.71
180.0	3596.82	3469.51	3341.09	3186.10	3047.16	2903.79	2767.62	2587.73	2448.23
225.0	3465.63	3292.93	3164.51	3023.91	2883.31	2711.16	2574.44	2392.33	2248.96
270.0	3625.05	3470.62	3341.09	3207.13	3030.55	2880.55	2741.61	2594.37	2410.04
315.0	3475.60	3352.71	3222.63	3054.91	2913.76	2779.80	2599.90	2454.32	2300.44
360.0	3348.28	3212.11	3034.43	2892.72	2750.47	2581.08	2432.18	2288.82	2143.79

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1965.00	1826.06	1686.57	1549.29	1383.23	1080.17	1080.17	1028.03	900.94
45.0	2151.54	2010.39	1870.34	1698.19	1564.24	1435.82	1280.27	1164.58	1055.54
90.0	1984.37	1841.56	1698.75	1533.24	1401.50	1099.88	1099.88	1021.66	923.02
135.0	2144.90	1963.34	1826.06	1686.02	1522.17	1390.43	1268.10	1122.52	1011.81
180.0	2312.62	2123.31	1975.51	1838.79	1667.20	1529.92	1399.84	1252.04	1141.34
225.0	2101.17	1915.73	1772.92	1636.20	1506.12	1351.68	1092.96	1092.96	1014.35
270.0	2266.67	2111.68	1972.19	1801.70	1657.78	1521.62	1364.96	1246.51	1099.27
315.0	2117.22	1973.30	1826.61	1683.80	1513.87	1383.23	1082.16	1082.16	1003.23
360.0	1965.00	1826.06	1686.57	1549.29	1383.23	1080.17	1080.17	1028.03	900.94

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	805.56	715.72	610.33	531.51	439.29	373.03	313.85	260.99	202.10
45.0	953.13	831.36	737.81	654.22	553.48	478.20	410.11	333.17	291.10
90.0	804.51	717.33	634.02	538.09	465.36	398.71	338.93	272.89	225.29
135.0	911.06	816.96	707.36	627.10	549.61	457.17	390.19	330.41	290.00
180.0	1033.95	927.67	811.43	718.99	635.40	556.80	463.81	397.38	337.60
225.0	892.24	799.14	711.57	629.37	533.28	460.04	394.28	321.33	269.63
270.0	999.63	902.76	786.52	702.38	621.01	541.86	468.79	385.76	325.98
315.0	903.81	809.99	699.84	616.97	520.32	448.31	382.94	325.04	260.88
360.0	805.56	715.72	610.33	531.51	439.29	373.03	313.85	260.99	202.10

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	163.29	131.30	105.06	81.15	67.42	57.24	49.93	43.07	39.02
45.0	291.10	170.10	135.62	108.38	87.74	69.19	58.84	51.20	45.33
90.0	184.27	149.12	113.31	92.05	75.56	60.78	52.25	44.67	40.08
135.0	290.00	172.92	138.88	105.34	85.69	70.91	57.79	50.15	44.67
180.0	284.46	284.46	179.79	137.78	110.26	88.57	68.86	57.90	49.87
225.0	210.79	170.99	137.66	103.84	83.47	68.14	57.35	49.49	42.84
270.0	285.02	285.02	167.17	133.51	106.39	80.65	65.98	55.80	47.00
315.0	215.44	175.53	141.93	108.38	87.68	71.96	60.56	50.54	44.73
360.0	163.29	131.30	105.06	81.15	67.42	57.24	49.93	43.07	39.02

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	35.09	32.44	30.22	27.84	26.18	24.74	23.14	21.98	20.92
45.0	40.02	36.75	33.93	30.89	28.89	27.07	25.13	23.69	22.20
90.0	36.53	33.71	30.78	28.73	26.90	25.35	23.64	22.42	21.37
135.0	39.41	36.15	33.38	31.00	28.95	26.68	25.19	23.86	22.31
180.0	44.17	38.86	35.76	33.05	30.78	28.34	26.63	25.08	23.41
225.0	38.86	35.76	32.49	30.28	28.40	26.29	24.69	23.08	21.92
270.0	42.12	37.64	34.71	32.22	30.06	27.73	26.13	24.63	23.30
315.0	39.52	36.26	33.54	30.61	28.73	26.96	25.41	23.69	22.47
360.0	35.09	32.44	30.22	27.84	26.18	24.74	23.14	21.98	20.92

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	19.98	18.93	18.16	17.49	16.88	16.16	15.67	15.22	14.67
45.0	21.15	20.20	19.37	18.38	17.66	16.99	16.38	15.72	15.22
90.0	20.37	19.32	18.49	17.66	16.99	16.44	15.72	15.28	14.83
135.0	21.31	20.09	19.32	18.60	17.71	17.10	16.55	16.00	15.44
180.0	22.20	21.15	19.98	19.15	18.16	17.55	16.88	16.33	15.67
225.0	20.87	19.87	18.88	18.10	17.44	16.83	16.11	15.61	15.17
270.0	21.86	20.76	19.82	19.04	18.10	17.44	16.72	16.16	15.67
315.0	21.37	20.09	19.32	18.54	17.82	17.05	16.50	16.00	15.33
360.0	19.98	18.93	18.16	17.49	16.88	16.16	15.67	15.22	14.67

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.28	13.84	13.45	13.17	12.84	12.45	12.12	11.79	11.51
45.0	14.78	14.45	13.95	13.56	13.17	12.90	12.51	12.12	11.85
90.0	14.39	14.00	13.67	13.34	12.95	12.62	12.29	12.01	11.62
135.0	14.95	14.61	14.23	13.73	13.40	13.12	12.73	12.40	12.07
180.0	15.17	14.78	14.39	14.00	13.62	13.28	12.95	12.57	12.29
225.0	14.72	14.23	13.84	13.51	13.17	12.79	12.40	12.12	11.79
270.0	15.06	14.61	14.28	13.89	13.51	13.17	12.79	12.51	12.12
315.0	14.95	14.45	14.06	13.67	13.28	12.90	12.62	12.29	12.01
360.0	14.28	13.84	13.45	13.17	12.84	12.45	12.12	11.79	11.51

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.13	10.90	10.63	10.30	10.02	9.74	9.52	9.30	9.02
45.0	11.57	11.24	10.90	10.63	10.35	10.13	9.80	9.58	9.35
90.0	11.29	11.02	10.68	10.41	10.13	9.85	9.63	9.47	9.08
135.0	11.68	11.40	11.07	10.79	10.52	10.24	9.96	9.69	9.52
180.0	11.90	11.57	11.24	10.90	10.63	10.35	10.13	9.85	9.58
225.0	11.51	11.13	10.90	10.63	10.30	10.07	9.74	9.58	9.30
270.0	11.85	11.57	11.18	10.90	10.52	10.30	10.02	9.80	9.52
315.0	11.62	11.29	11.02	10.68	10.35	10.07	9.80	9.58	9.35
360.0	11.13	10.90	10.63	10.30	10.02	9.74	9.52	9.30	9.02

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.80	8.64	8.47	8.25	8.08	7.92	7.80	7.64	7.58
45.0	9.02	8.80	8.52	8.41	8.19	8.03	7.92	7.80	7.64
90.0	8.86	8.64	8.47	8.25	8.14	7.97	7.86	7.69	7.64
135.0	9.19	8.91	8.64	8.47	8.30	8.08	7.92	7.80	7.64
180.0	9.41	9.08	8.80	8.58	8.36	8.19	8.08	7.92	7.75
225.0	9.02	8.80	8.58	8.41	8.19	8.08	7.92	7.86	7.64
270.0	9.30	9.02	8.80	8.58	8.41	8.25	8.08	7.92	7.75
315.0	9.02	8.86	8.69	8.41	8.25	8.08	7.97	7.86	7.69
360.0	8.80	8.64	8.47	8.25	8.08	7.92	7.80	7.64	7.58

Intensity data(cd)

C/γ(°)	90.0
0.0	7.64
45.0	7.53
90.0	7.64
135.0	7.64
180.0	7.58
225.0	7.58
270.0	7.64
315.0	7.64
360.0	7.64