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NATA

Client:
LumCAT: 2-2643-L
Luminaire: 92.70.429.00
Report No: 20231010-B008
Ballast type: AC

Test No: 20231010-C008	Voltage(V): 35.860
LampCAT: CREE CXA1830 LES14	Current(A): 0.530
Lamp flux(lm): 1997.0	Power (W): 19.005
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1914.33, Efficiency(%): 95.86% , Luminous Efficacy(lm/W): 100.73
Central intensity(cd): 11112.060, Maximum intensity(cd): 11199.530
Angle of maximum intensity: C=0.0 γ=1.0
Beam Angle(50%Imax): [C0/180]Total=17.0
[C90/270]Total=17.0
Field angle(10%Imax): [C0/180]Total=43.4
[C90/270]Total=43.4
Maximum s/h(1/2): C0_180=0.29 C90_270=0.29
Maximum s/h(1/4): C0_180=0.32 C90_270=0.32
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 95.86%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.215%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11112.055	0.000	0	0.00%	0.00%
1.0	11199.528	10.676	10.676	0.53%	0.56%
2.0	10900.134	31.720	42.395	1.59%	2.21%
3.0	10343.208	50.807	93.202	2.54%	4.87%
4.0	9578.567	66.685	159.887	3.34%	8.35%
5.0	8752.691	78.860	238.747	3.95%	12.47%
6.0	7863.297	87.321	326.068	4.37%	17.03%
7.0	6945.742	91.919	417.988	4.60%	21.83%
8.0	6040.918	92.943	510.931	4.65%	26.69%
9.0	5223.484	91.292	602.223	4.57%	31.46%
10.0	4429.852	87.359	689.582	4.37%	36.02%
11.0	3801.242	82.246	771.827	4.12%	40.32%
12.0	3242.033	76.993	848.821	3.86%	44.34%
13.0	2823.767	71.986	920.806	3.60%	48.10%
14.0	2560.422	68.917	989.723	3.45%	51.70%
15.0	2293.120	66.632	1056.355	3.34%	55.18%
16.0	1920.991	61.749	1118.104	3.09%	58.41%
17.0	1730.921	56.870	1174.974	2.85%	61.38%
18.0	1577.522	54.549	1229.523	2.73%	64.23%
19.0	1435.125	52.414	1281.937	2.62%	66.97%
20.0	1257.821	49.288	1331.225	2.47%	69.54%
21.0	1173.420	46.685	1377.91	2.34%	71.98%
22.0	1098.084	45.647	1423.557	2.29%	74.36%
23.0	1007.885	44.189	1467.745	2.21%	76.67%
24.0	920.503	42.161	1509.907	2.11%	78.87%
25.0	845.505	40.155	1550.062	2.01%	80.97%
26.0	769.581	38.124	1588.186	1.91%	82.96%
27.0	685.921	35.609	1623.796	1.78%	84.82%
28.0	610.156	32.814	1656.609	1.64%	86.54%
29.0	533.090	29.911	1686.52	1.50%	88.10%
30.0	459.428	26.798	1713.318	1.34%	89.50%
31.0	390.402	23.650	1736.967	1.18%	90.74%
32.0	328.939	20.608	1757.576	1.03%	91.81%
33.0	276.353	17.832	1775.408	0.89%	92.74%
34.0	242.802	15.711	1791.119	0.79%	93.56%
35.0	196.664	13.648	1804.767	0.68%	94.28%
36.0	142.037	10.784	1815.551	0.54%	94.84%
37.0	114.333	8.361	1823.913	0.42%	95.28%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	91.098	6.857	1830.77	0.34%	95.64%
39.0	73.171	5.607	1836.377	0.28%	95.93%
40.0	60.425	4.659	1841.036	0.23%	96.17%
41.0	49.375	3.910	1844.946	0.20%	96.38%
42.0	41.757	3.311	1848.257	0.17%	96.55%
43.0	35.731	2.870	1851.127	0.14%	96.70%
44.0	31.385	2.533	1853.661	0.13%	96.83%
45.0	28.210	2.290	1855.951	0.11%	96.95%
46.0	25.822	2.113	1858.064	0.11%	97.06%
47.0	23.844	1.975	1860.039	0.10%	97.16%
48.0	22.135	1.859	1861.898	0.09%	97.26%
49.0	20.744	1.761	1863.659	0.09%	97.35%
50.0	19.526	1.679	1865.338	0.08%	97.44%
51.0	18.543	1.611	1866.948	0.08%	97.52%
52.0	17.706	1.556	1868.504	0.08%	97.61%
53.0	17.021	1.511	1870.015	0.08%	97.69%
54.0	16.482	1.477	1871.491	0.07%	97.76%
55.0	16.053	1.452	1872.943	0.07%	97.84%
56.0	15.734	1.436	1874.38	0.07%	97.91%
57.0	15.527	1.429	1875.809	0.07%	97.99%
58.0	15.444	1.432	1877.241	0.07%	98.06%
59.0	15.444	1.444	1878.685	0.07%	98.14%
60.0	15.534	1.463	1880.149	0.07%	98.21%
61.0	15.541	1.483	1881.632	0.07%	98.29%
62.0	15.520	1.497	1883.128	0.07%	98.37%
63.0	15.402	1.504	1884.632	0.08%	98.45%
64.0	15.105	1.497	1886.129	0.07%	98.53%
65.0	14.537	1.467	1887.596	0.07%	98.60%
66.0	13.977	1.423	1889.019	0.07%	98.68%
67.0	13.382	1.376	1890.395	0.07%	98.75%
68.0	12.717	1.322	1891.717	0.07%	98.82%
69.0	12.129	1.268	1892.984	0.06%	98.89%
70.0	11.680	1.223	1894.207	0.06%	98.95%
71.0	11.264	1.186	1895.393	0.06%	99.01%
72.0	10.932	1.154	1896.547	0.06%	99.07%
73.0	10.676	1.130	1897.677	0.06%	99.13%
74.0	10.448	1.111	1898.788	0.06%	99.19%
75.0	10.240	1.093	1899.881	0.05%	99.25%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.047	1.077	1900.958	0.05%	99.30%
77.0	9.860	1.061	1902.019	0.05%	99.36%
78.0	9.645	1.044	1903.063	0.05%	99.41%
79.0	9.479	1.028	1904.091	0.05%	99.47%
80.0	9.279	1.011	1905.102	0.05%	99.52%
81.0	9.071	0.992	1906.094	0.05%	99.57%
82.0	8.898	0.974	1907.069	0.05%	99.62%
83.0	8.704	0.957	1908.026	0.05%	99.67%
84.0	8.545	0.940	1908.965	0.05%	99.72%
85.0	8.393	0.924	1909.89	0.05%	99.77%
86.0	8.282	0.911	1910.801	0.05%	99.82%
87.0	8.144	0.899	1911.7	0.05%	99.86%
88.0	8.047	0.887	1912.587	0.04%	99.91%
89.0	7.916	0.875	1913.462	0.04%	99.95%
90.0	7.888	0.866	1914.328	0.04%	100.00%

Zonal flux distribution table

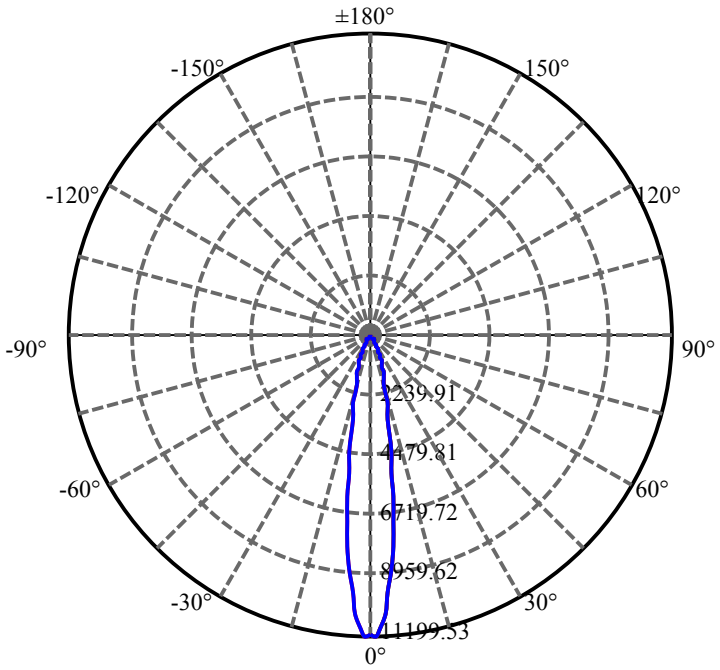
ZONAL LUMEN SUMMARY

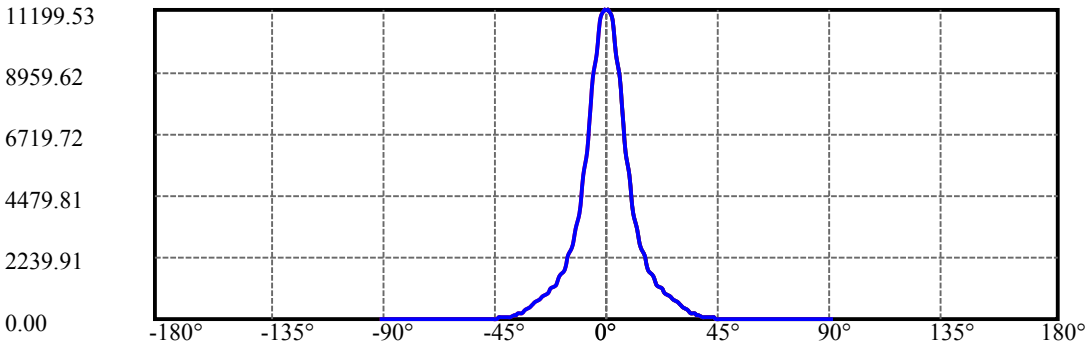
Zone	Lumens	%Lamp	%Fixt
0-30	1713.32	85.79%	89.50%
0-40	1841.04	92.19%	96.17%
0-60	1880.15	94.15%	98.21%
0-90	1913.46	95.82%	99.95%
0-120	1913.46	95.82%	99.95%
0-180	1914.33	95.86%	100.00%
60-90	33.31	1.67%	1.74%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.54	1531.46	76.69%	80.00%

ZONAL LUMEN SUMMARY

0-10	689.58
10-20	641.64
20-30	382.09
30-40	127.72
40-50	24.30
50-60	14.81
60-70	14.06
70-80	10.89
80-90	8.36
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):

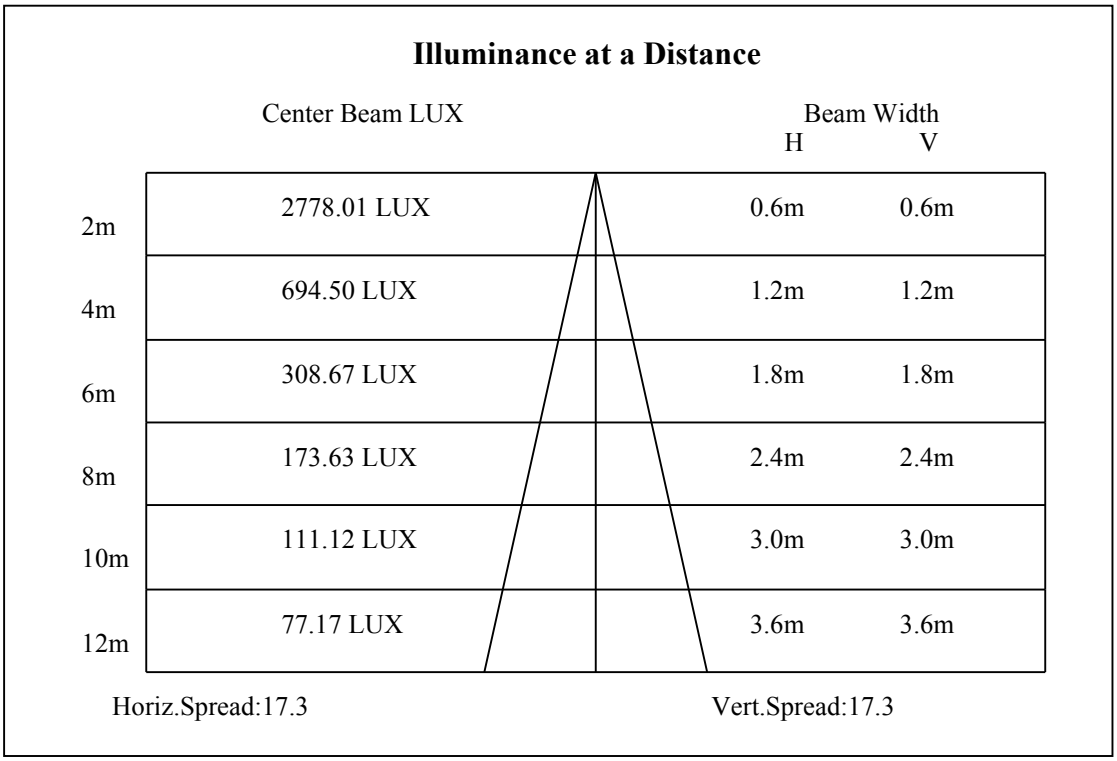
C0/C180:

C90/C270:

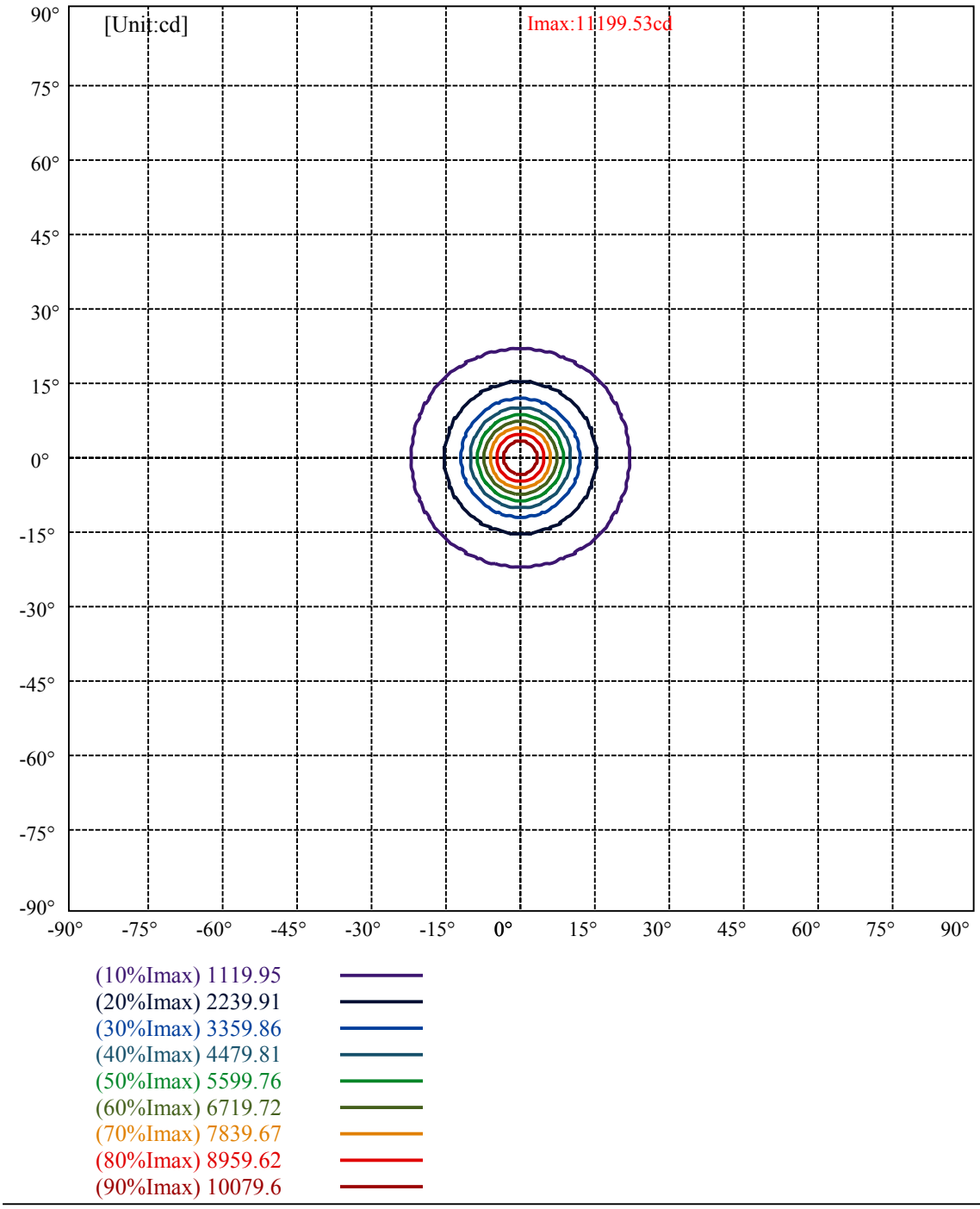
Field angle(10%Imax):C0/180Left:22.7 Right:20.7
:C90/270Left:22.7 Right:20.7

Beam Angle(50%Imax):C0/180Left:9.5 Right:7.5
:C90/270Left:9.5 Right:7.5

Lux distance Curve



ISO-Intensity(V-H)

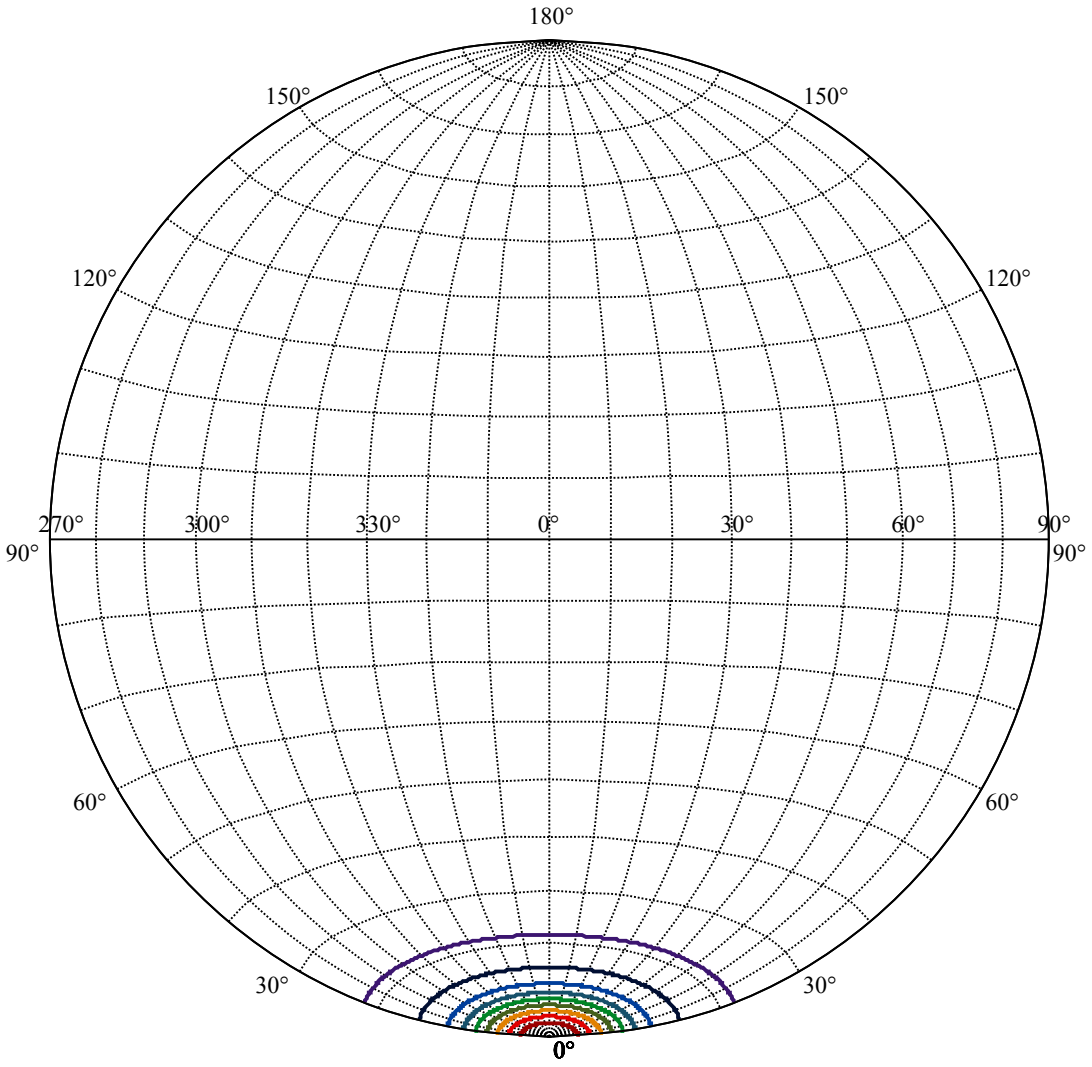


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



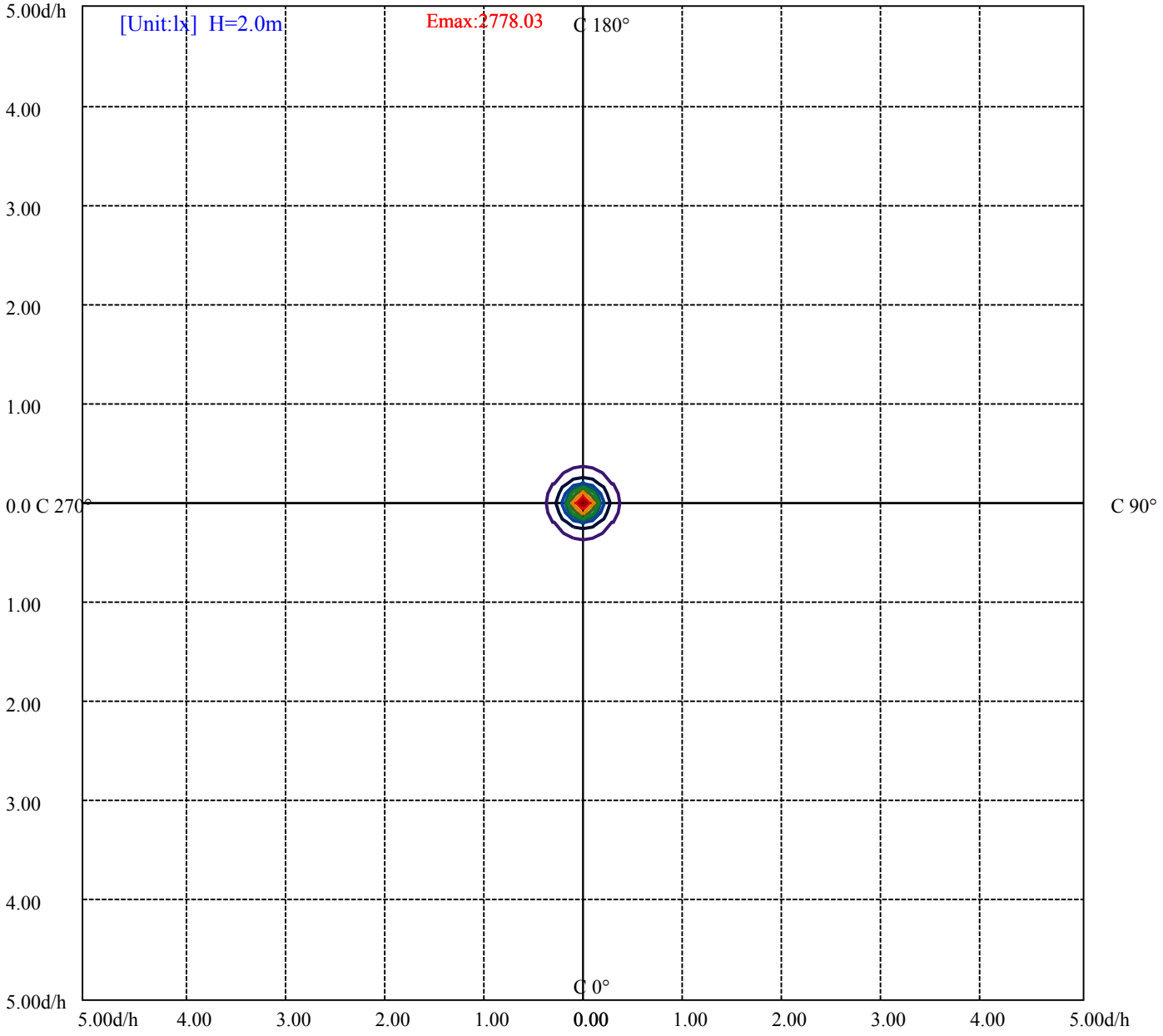
House [Unit:cd] Road

Imax:11199.53

(10%Imax) 1119.95
(20%Imax) 2239.91
(30%Imax) 3359.86
(40%Imax) 4479.81
(50%Imax) 5599.76
(60%Imax) 6719.72
(70%Imax) 7839.67
(80%Imax) 8959.62
(90%Imax) 10079.6

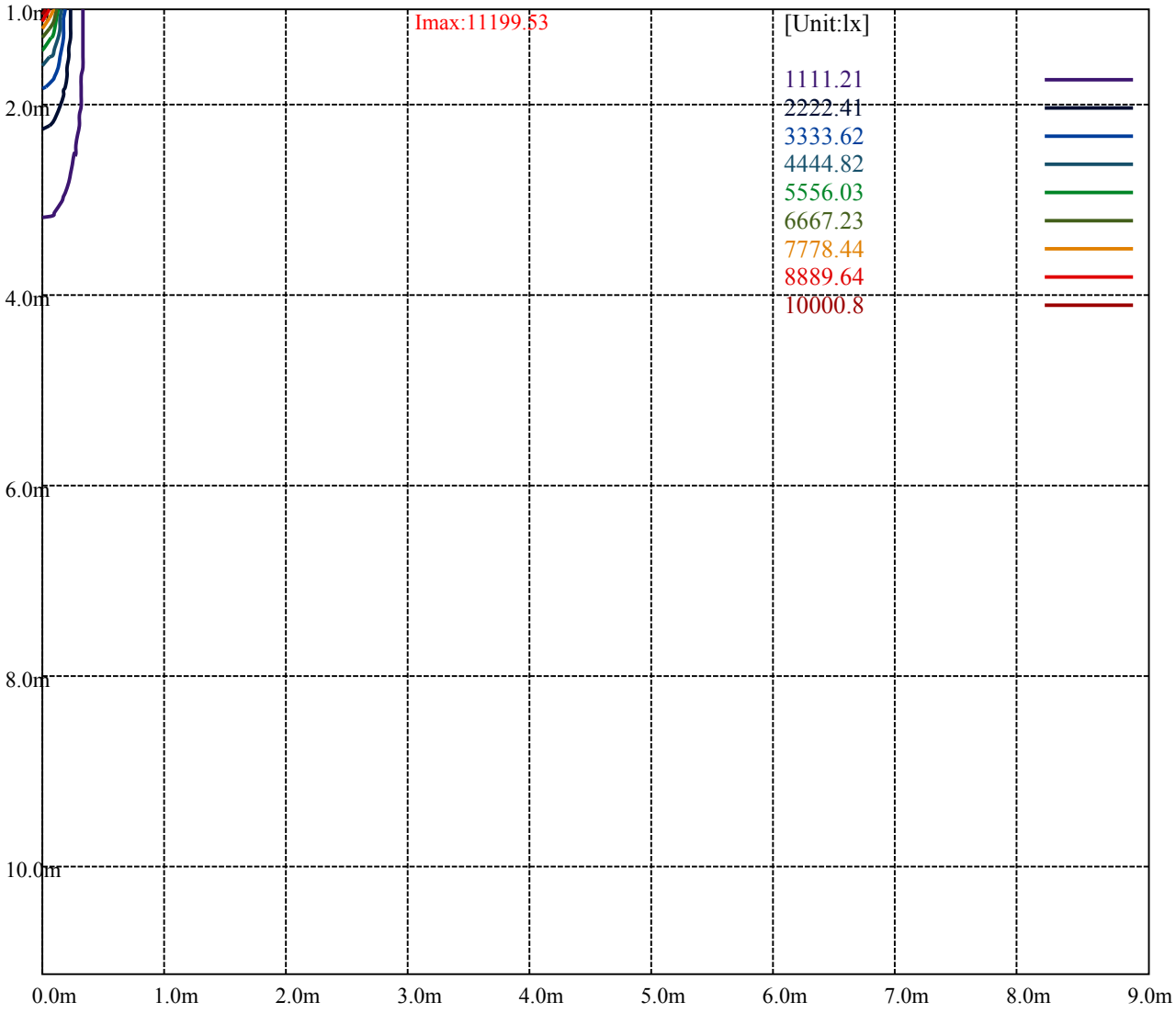
Equipment: GMS1980 Date: 2023/10/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

ISO illuminance diagram



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

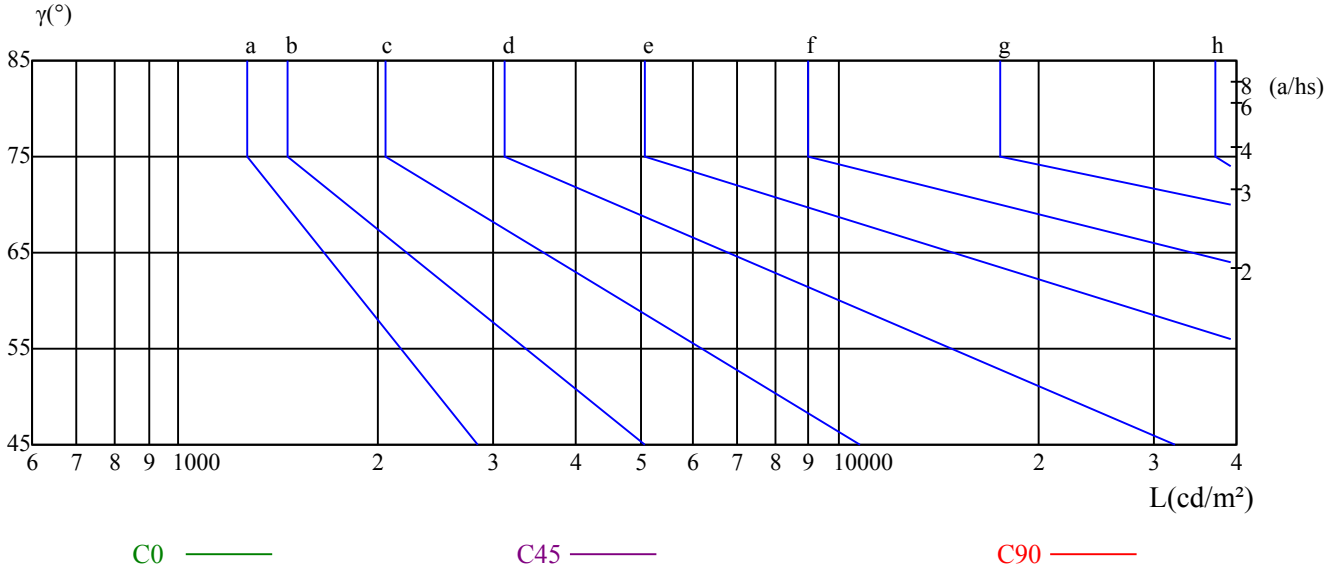
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

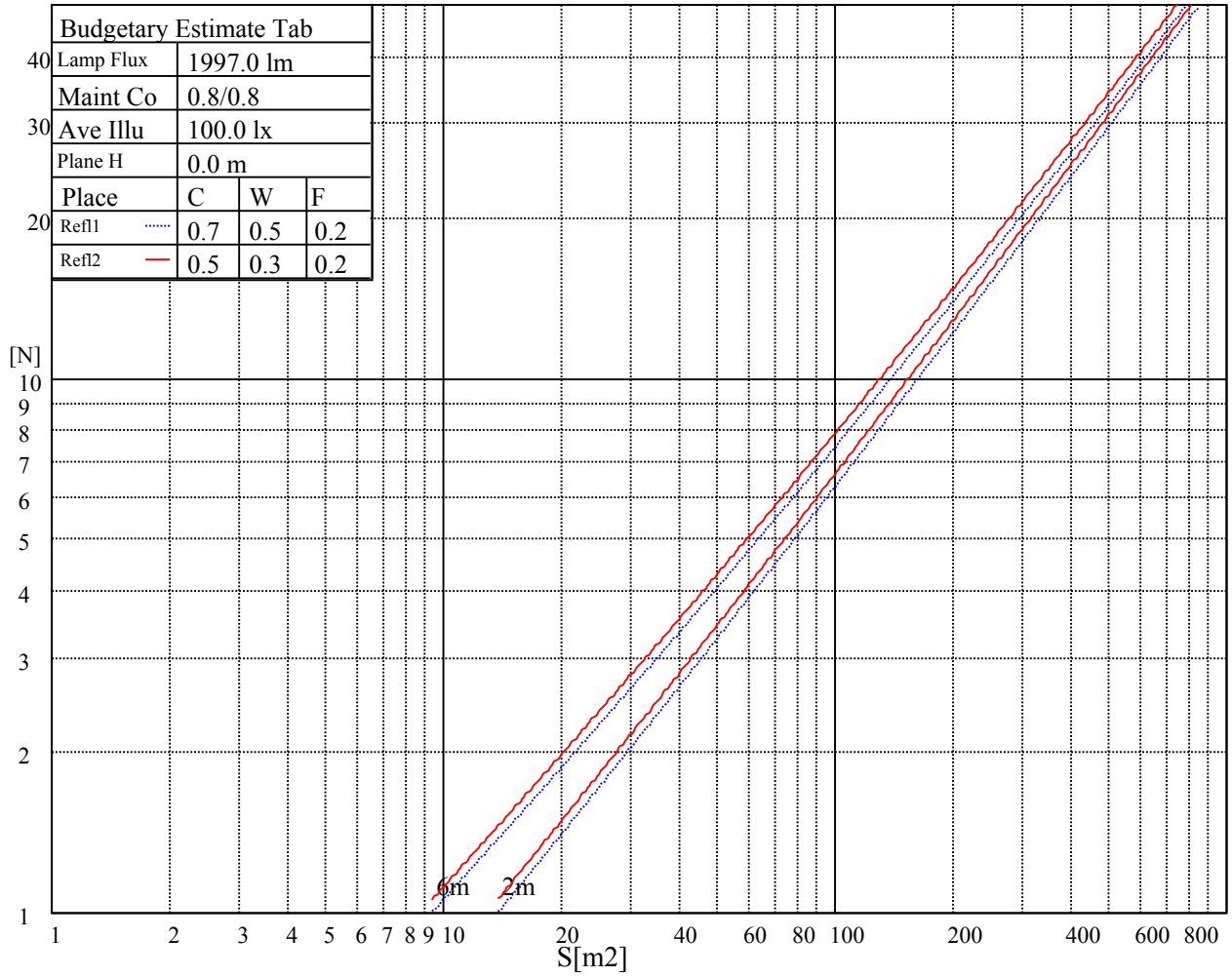
Luminance Limitting Curve



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

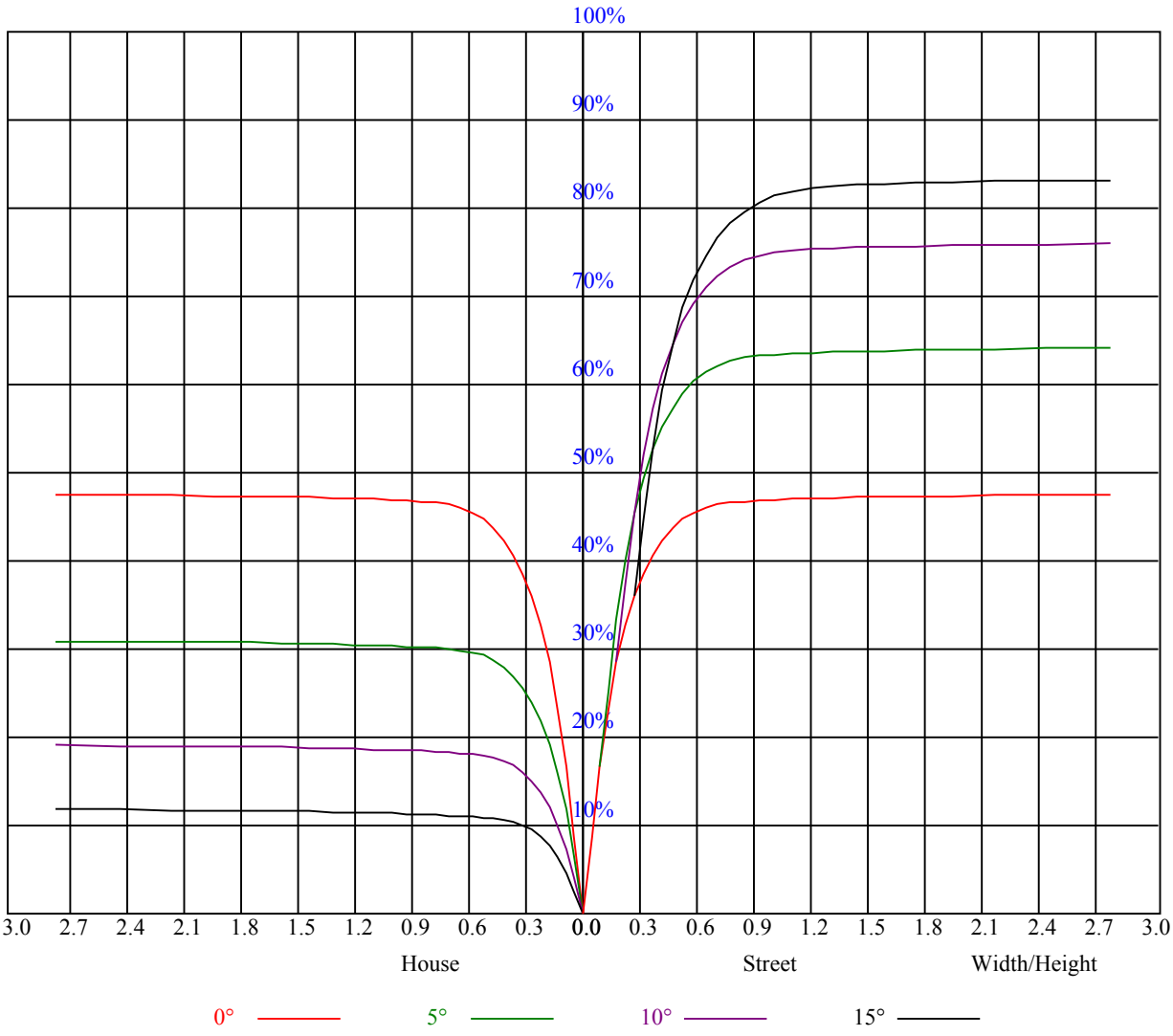


Equipment: GMS1980 Date: 2023/10/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.14	1.14	1.14	1.11	1.11	1.11	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.07	1.05	1.04	1.05	1.04	1.02	1.02	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92
2	1.02	0.99	0.96	1.00	0.97	0.95	0.97	0.95	0.93	0.94	0.93	0.91	0.92	0.90	0.89	0.88
3	0.97	0.93	0.90	0.96	0.92	0.90	0.93	0.91	0.88	0.91	0.89	0.87	0.89	0.87	0.86	0.84
4	0.93	0.89	0.86	0.92	0.88	0.85	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.81
5	0.89	0.85	0.82	0.88	0.84	0.81	0.87	0.83	0.81	0.85	0.82	0.80	0.84	0.81	0.79	0.78
6	0.86	0.81	0.78	0.85	0.81	0.78	0.84	0.80	0.78	0.83	0.80	0.77	0.81	0.79	0.77	0.76
7	0.83	0.78	0.75	0.82	0.78	0.75	0.81	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.73
8	0.80	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.71
9	0.78	0.73	0.71	0.77	0.73	0.70	0.76	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.69
10	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67

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	11002.58	10888.00	10356.05	9678.52	8672.19	7807.02	6931.88	6081.09	5260.20
45.0	11032.47	11398.41	11005.40	10474.01	9599.42	8807.86	7949.88	7075.30	6001.44
90.0	10959.40	10959.40	10417.49	9733.32	8724.78	7861.82	6786.30	5933.30	5141.74
135.0	11453.77	11309.85	10966.66	10263.66	9533.00	8735.91	7872.39	7008.87	5951.62
180.0	11002.58	11547.87	11354.13	10916.84	10402.05	9544.07	8780.19	7927.74	7042.08
225.0	11032.47	11032.47	10812.72	10237.04	9560.06	8765.74	7692.99	6808.99	5955.99
270.0	10959.40	11475.91	11304.31	10961.12	10296.88	9604.96	8830.01	7772.75	6903.70
315.0	11453.77	10984.31	10984.31	10481.15	9840.15	8894.16	8062.75	6957.89	6070.57
360.0	11002.58	10888.00	10356.05	9678.52	8672.19	7807.02	6931.88	6081.09	5260.20

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4366.24	3761.78	3244.77	2729.43	2412.25	2154.86	1885.84	1710.37	1570.88
45.0	5198.81	4495.82	3898.00	3239.29	2835.21	2835.21	2455.43	1953.37	1774.58
90.0	4429.89	3669.33	3181.67	2779.80	2453.22	2134.93	1925.70	1748.01	1599.11
135.0	5160.06	4446.00	3693.19	3200.55	2890.56	2890.56	2131.06	1871.45	1707.05
180.0	6184.10	5193.27	4457.07	3831.58	3183.94	2873.96	2873.96	2173.68	1901.34
225.0	5143.40	4260.51	3668.23	3178.90	2773.16	2380.15	2126.08	1863.70	1692.66
270.0	6062.33	5265.23	4534.57	3754.08	3233.76	2813.07	2813.07	2136.04	1868.68
315.0	5243.04	4346.86	3732.44	3222.63	2808.03	2400.63	2133.83	1911.30	1733.07
360.0	4366.24	3761.78	3244.77	2729.43	2412.25	2154.86	1885.84	1710.37	1570.88

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1417.55	1307.40	1082.33	1082.33	1000.57	923.46	848.96	757.07	684.72
45.0	1624.57	1461.83	1346.14	1214.40	1119.75	1032.29	935.97	859.59	785.97
90.0	1439.14	1323.45	1097.99	1097.99	1012.03	916.60	841.43	769.08	694.58
135.0	1567.01	1447.44	1306.29	1203.33	1107.57	1022.33	924.35	847.96	771.02
180.0	1736.39	1580.84	1425.30	1314.59	1190.60	1090.96	1005.72	933.21	835.78
225.0	1546.52	1387.11	1102.26	1102.26	1081.89	983.69	909.35	837.78	769.91
270.0	1706.50	1549.85	1393.75	1288.58	1188.39	1091.52	990.22	918.81	845.19
315.0	1582.50	1423.09	1308.50	1083.88	1083.88	1002.23	908.02	840.54	769.47
360.0	1417.55	1307.40	1082.33	1082.33	1000.57	923.46	848.96	757.07	684.72

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	610.16	537.70	452.85	391.90	335.94	272.67	228.33	180.34	148.07
45.0	709.02	614.92	543.52	473.77	409.56	336.49	285.02	285.02	183.72
90.0	600.81	529.24	460.38	383.32	325.26	272.56	224.90	174.09	140.16
135.0	673.60	595.00	521.93	440.01	380.22	323.21	285.02	285.02	171.76
180.0	763.82	690.76	612.16	523.04	456.61	391.85	329.85	291.66	291.66
225.0	680.02	608.67	535.21	464.47	384.87	325.04	257.95	212.45	173.15
270.0	769.91	696.85	601.64	529.68	441.11	378.56	320.44	280.59	280.59
315.0	680.02	608.11	537.04	469.23	389.63	331.13	279.31	233.26	184.22
360.0	610.16	537.70	452.85	391.90	335.94	272.67	228.33	180.34	148.07

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	121.28	99.08	76.55	62.44	51.42	42.90	35.76	31.83	28.78
45.0	150.62	122.55	94.65	76.89	62.66	49.15	41.02	35.26	31.16
90.0	112.87	86.41	70.13	55.80	47.27	40.52	35.26	31.16	27.51
135.0	132.18	107.11	87.07	71.35	59.56	47.94	40.80	35.48	30.94
180.0	166.12	137.11	110.10	85.30	69.52	58.07	49.10	39.91	34.87
225.0	133.24	108.11	87.85	68.31	56.96	48.05	40.80	33.82	30.06
270.0	168.66	130.08	105.56	85.52	70.08	55.96	47.49	40.68	35.43
315.0	151.34	124.21	96.87	79.76	65.93	52.42	43.84	37.70	32.33
360.0	121.28	99.08	76.55	62.44	51.42	42.90	35.76	31.83	28.78

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	26.46	24.08	22.47	20.87	19.76	18.88	17.99	17.33	16.88
45.0	27.51	25.30	23.47	21.86	20.15	19.04	18.10	17.21	16.66
90.0	25.30	23.53	21.92	20.31	19.21	18.21	17.33	16.66	16.11
135.0	28.29	26.13	23.91	22.36	20.98	19.54	18.54	17.77	17.10
180.0	31.00	27.79	25.63	23.86	22.25	20.59	19.48	18.49	17.49
225.0	27.18	25.02	22.81	21.31	20.04	18.76	17.88	17.05	16.44
270.0	30.72	27.90	25.57	23.47	21.92	20.70	19.43	18.54	17.66
315.0	29.23	26.85	24.96	23.03	21.64	20.48	19.60	18.60	17.82
360.0	26.46	24.08	22.47	20.87	19.76	18.88	17.99	17.33	16.88

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	16.50	16.11	15.89	15.78	15.83	15.94	15.89	15.89	15.78
45.0	16.11	15.78	15.50	15.28	15.22	15.22	15.39	15.39	15.39
90.0	15.67	15.39	15.17	15.11	15.06	15.17	15.17	15.22	15.22
135.0	16.50	16.11	15.78	15.61	15.55	15.55	15.72	15.72	15.78
180.0	16.88	16.27	15.89	15.67	15.50	15.44	15.67	15.72	15.72
225.0	16.00	15.72	15.39	15.22	15.22	15.22	15.33	15.33	15.28
270.0	16.94	16.38	16.00	15.61	15.33	15.22	15.22	15.28	15.22
315.0	17.27	16.66	16.27	15.94	15.83	15.78	15.89	15.78	15.78
360.0	16.50	16.11	15.89	15.78	15.83	15.94	15.89	15.89	15.78

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.39	14.78	14.12	13.56	12.84	12.23	11.79	11.40	10.96
45.0	15.39	15.17	14.45	14.00	13.45	12.62	12.07	11.57	11.13
90.0	15.06	14.45	13.95	13.40	12.62	12.12	11.68	11.18	10.90
135.0	15.67	15.33	14.61	14.06	13.56	12.79	12.29	11.79	11.35
180.0	15.61	15.50	15.17	14.56	13.89	13.34	12.45	12.01	11.62
225.0	15.17	14.83	14.34	13.67	13.17	12.45	11.85	11.46	11.13
270.0	15.22	15.28	14.95	14.34	13.78	13.34	12.57	12.12	11.62
315.0	15.72	15.50	14.72	14.23	13.73	12.84	12.34	11.90	11.40
360.0	15.39	14.78	14.12	13.56	12.84	12.23	11.79	11.40	10.96

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.68	10.46	10.30	10.02	9.91	9.69	9.52	9.30	9.08
45.0	10.85	10.63	10.35	10.19	10.02	9.85	9.58	9.41	9.24
90.0	10.57	10.41	10.19	10.02	9.80	9.63	9.41	9.30	9.08
135.0	11.07	10.79	10.57	10.35	10.19	10.02	9.80	9.63	9.41
180.0	11.24	10.90	10.68	10.46	10.24	10.02	9.85	9.69	9.47
225.0	10.74	10.52	10.35	10.13	9.91	9.74	9.52	9.41	9.19
270.0	11.24	10.90	10.63	10.41	10.19	10.02	9.74	9.58	9.41
315.0	11.07	10.79	10.52	10.35	10.13	9.91	9.74	9.52	9.35
360.0	10.68	10.46	10.30	10.02	9.91	9.69	9.52	9.30	9.08

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.91	8.75	8.58	8.47	8.30	8.19	8.03	7.97	7.92
45.0	9.02	8.91	8.64	8.47	8.36	8.30	8.14	8.03	7.86
90.0	8.91	8.75	8.58	8.41	8.30	8.19	8.08	8.03	7.92
135.0	9.19	9.02	8.80	8.64	8.47	8.30	8.14	8.03	7.92
180.0	9.24	9.02	8.86	8.69	8.47	8.36	8.25	8.08	7.97
225.0	9.02	8.80	8.64	8.47	8.36	8.25	8.14	8.03	7.86
270.0	9.19	9.02	8.80	8.64	8.47	8.36	8.19	8.14	7.97
315.0	9.08	8.91	8.75	8.58	8.41	8.30	8.19	8.08	7.92
360.0	8.91	8.75	8.58	8.47	8.30	8.19	8.03	7.97	7.92

Intensity data(cd)

C/γ(°)	90.0
0.0	7.92
45.0	7.92
90.0	7.92
135.0	7.92
180.0	7.86
225.0	7.86
270.0	7.86
315.0	7.86
360.0	7.92