NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:
LumCAT: 2-2644-L
Luminaire: 92.70.411.00
Report No: 20231027-B018
Ballast type: AC

Test No: 20231027-C018	Voltage(V): 34.970
LampCAT: Fortimo_SLM_C_1205	Current(A): 0.401
Lamp flux(lm): 2255.2	Power (W): 14.022
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2049.33, Efficiency(%): 90.87% , Luminous Efficacy(lm/W): 146.15
Central intensity(cd): 7271.250, Maximum intensity(cd): 7271.250
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.8
[C90/270]Total=24.8
Field angle(10%Imax): [C0/180]Total=55.6
[C90/270]Total=55.6
Maximum s/h(1/2): C0_180=0.42 C90_270=0.42
Maximum s/h(1/4): C0_180=0.46 C90_270=0.46
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.87%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.943%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7271.249	0.000	0	0.00%	0.00%
1.0	7236.376	6.942	6.942	0.31%	0.34%
2.0	7123.939	20.611	27.553	0.91%	1.34%
3.0	6949.921	33.660	61.213	1.49%	2.99%
4.0	6717.021	45.748	106.961	2.03%	5.22%
5.0	6419.980	56.515	163.475	2.51%	7.98%
6.0	6105.433	65.824	229.3	2.92%	11.19%
7.0	5766.254	73.687	302.987	3.27%	14.78%
8.0	5376.634	79.748	382.735	3.54%	18.68%
9.0	4970.892	83.861	466.596	3.72%	22.77%
10.0	4561.067	86.261	552.856	3.82%	26.98%
11.0	4190.060	87.442	640.298	3.88%	31.24%
12.0	3799.955	87.342	727.64	3.87%	35.51%
13.0	3433.791	85.846	813.487	3.81%	39.70%
14.0	3109.558	83.754	897.241	3.71%	43.78%
15.0	2803.729	81.180	978.421	3.60%	47.74%
16.0	2525.370	78.086	1056.507	3.46%	51.55%
17.0	2288.456	74.964	1131.472	3.32%	55.21%
18.0	2074.030	71.928	1203.4	3.19%	58.72%
19.0	1874.965	68.704	1272.104	3.05%	62.07%
20.0	1701.362	65.457	1337.561	2.90%	65.27%
21.0	1532.464	62.096	1399.657	2.75%	68.30%
22.0	1348.289	57.890	1457.547	2.57%	71.12%
23.0	1212.133	53.725	1511.271	2.38%	73.74%
24.0	1123.277	51.060	1562.332	2.26%	76.24%
25.0	1015.842	48.639	1610.971	2.16%	78.61%
26.0	908.823	45.432	1656.403	2.01%	80.83%
27.0	804.959	41.928	1698.331	1.86%	82.87%
28.0	708.284	38.312	1736.643	1.70%	84.74%
29.0	609.263	34.471	1771.113	1.53%	86.42%
30.0	527.278	30.686	1801.8	1.36%	87.92%
31.0	443.701	27.021	1828.821	1.20%	89.24%
32.0	376.640	23.502	1852.323	1.04%	90.39%
33.0	311.032	20.259	1872.582	0.90%	91.38%
34.0	265.303	17.442	1890.023	0.77%	92.23%
35.0	225.850	15.253	1905.277	0.68%	92.97%
36.0	184.957	13.080	1918.357	0.58%	93.61%
37.0	135.250	10.443	1928.8	0.46%	94.12%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	110.064	8.188	1936.988	0.36%	94.52%
39.0	90.870	6.858	1943.847	0.30%	94.85%
40.0	77.440	5.870	1949.717	0.26%	95.14%
41.0	66.404	5.122	1954.839	0.23%	95.39%
42.0	57.838	4.514	1959.353	0.20%	95.61%
43.0	51.721	4.058	1963.411	0.18%	95.81%
44.0	46.933	3.723	1967.135	0.17%	95.99%
45.0	42.761	3.447	1970.582	0.15%	96.16%
46.0	39.253	3.207	1973.789	0.14%	96.31%
47.0	36.333	3.006	1976.795	0.13%	96.46%
48.0	33.780	2.834	1979.63	0.13%	96.60%
49.0	31.614	2.685	1982.315	0.12%	96.73%
50.0	29.863	2.563	1984.878	0.11%	96.85%
51.0	28.396	2.465	1987.343	0.11%	96.98%
52.0	27.227	2.387	1989.73	0.11%	97.09%
53.0	26.189	2.324	1992.054	0.10%	97.20%
54.0	25.414	2.274	1994.328	0.10%	97.32%
55.0	24.632	2.234	1996.562	0.10%	97.42%
56.0	23.975	2.196	1998.758	0.10%	97.53%
57.0	23.345	2.164	2000.922	0.10%	97.64%
58.0	22.681	2.128	2003.05	0.09%	97.74%
59.0	22.017	2.090	2005.14	0.09%	97.84%
60.0	21.270	2.045	2007.185	0.09%	97.94%
61.0	20.564	1.996	2009.181	0.09%	98.04%
62.0	19.830	1.946	2011.128	0.09%	98.14%
63.0	19.180	1.897	2013.025	0.08%	98.23%
64.0	18.523	1.850	2014.875	0.08%	98.32%
65.0	17.935	1.804	2016.68	0.08%	98.41%
66.0	17.360	1.761	2018.44	0.08%	98.49%
67.0	16.772	1.716	2020.157	0.08%	98.58%
68.0	16.191	1.670	2021.827	0.07%	98.66%
69.0	15.637	1.624	2023.45	0.07%	98.74%
70.0	15.146	1.581	2025.031	0.07%	98.81%
71.0	14.627	1.539	2026.57	0.07%	98.89%
72.0	14.129	1.495	2028.065	0.07%	98.96%
73.0	13.707	1.456	2029.521	0.06%	99.03%
74.0	13.306	1.420	2030.941	0.06%	99.10%
75.0	12.918	1.386	2032.327	0.06%	99.17%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.517	1.350	2033.677	0.06%	99.24%
77.0	12.185	1.317	2034.994	0.06%	99.30%
78.0	11.853	1.287	2036.281	0.06%	99.36%
79.0	11.514	1.255	2037.536	0.06%	99.42%
80.0	11.195	1.224	2038.76	0.05%	99.48%
81.0	10.870	1.193	2039.954	0.05%	99.54%
82.0	10.552	1.162	2041.115	0.05%	99.60%
83.0	10.254	1.131	2042.246	0.05%	99.65%
84.0	9.977	1.102	2043.348	0.05%	99.71%
85.0	9.680	1.073	2044.421	0.05%	99.76%
86.0	9.299	1.037	2045.459	0.05%	99.81%
87.0	9.016	1.002	2046.461	0.04%	99.86%
88.0	8.787	0.975	2047.436	0.04%	99.91%
89.0	8.635	0.955	2048.391	0.04%	99.95%
90.0	8.545	0.942	2049.333	0.04%	100.00%

Zonal flux distribution table

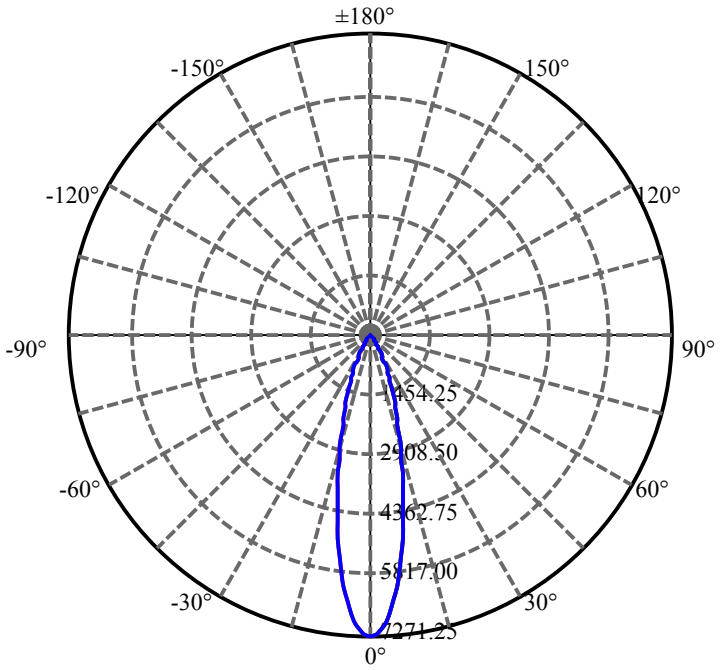
ZONAL LUMEN SUMMARY

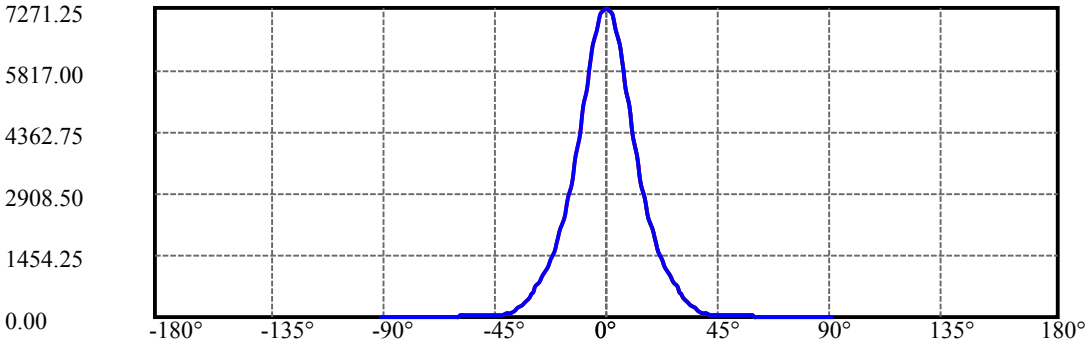
Zone	Lumens	%Lamp	%Fixt
0-30	1801.80	79.90%	87.92%
0-40	1949.72	86.45%	95.14%
0-60	2007.19	89.00%	97.94%
0-90	2048.39	90.83%	99.95%
0-120	2048.39	90.83%	99.95%
0-180	2049.33	90.87%	100.00%
60-90	41.21	1.83%	2.01%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.63	1639.47	72.70%	80.00%

ZONAL LUMEN SUMMARY

0-10	552.86
10-20	784.70
20-30	464.24
30-40	147.92
40-50	35.16
50-60	22.31
60-70	17.85
70-80	13.73
80-90	9.63
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):

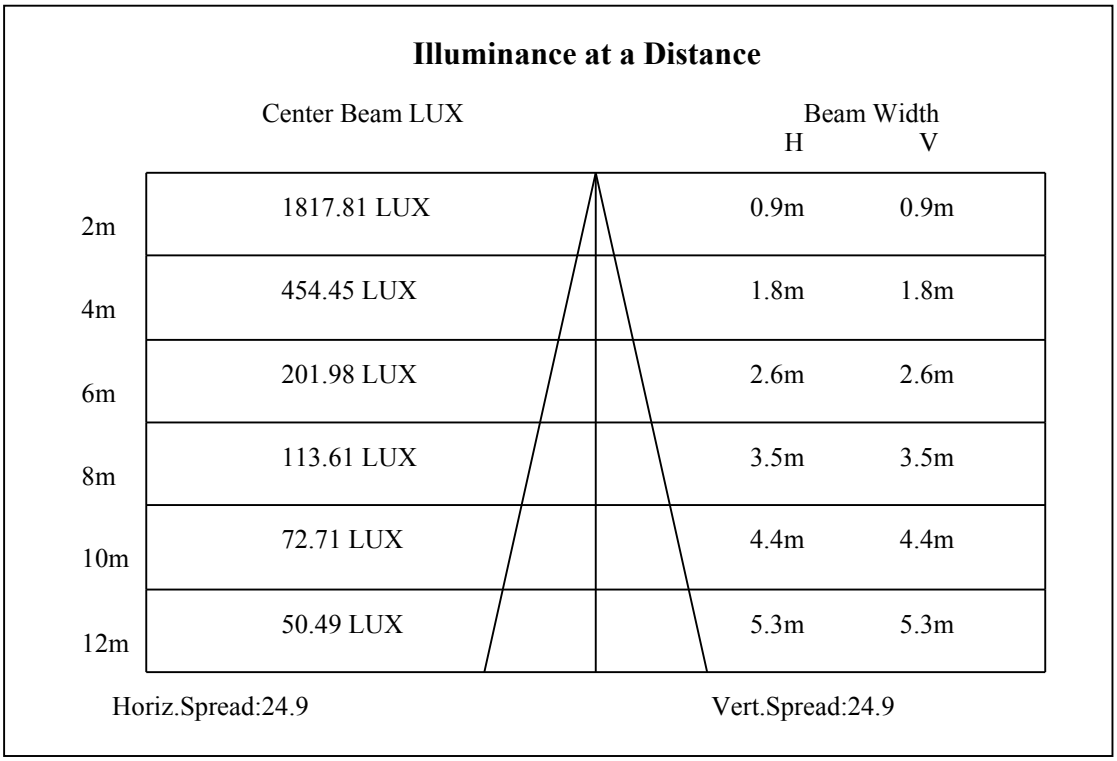
C0/C180:

C90/C270:

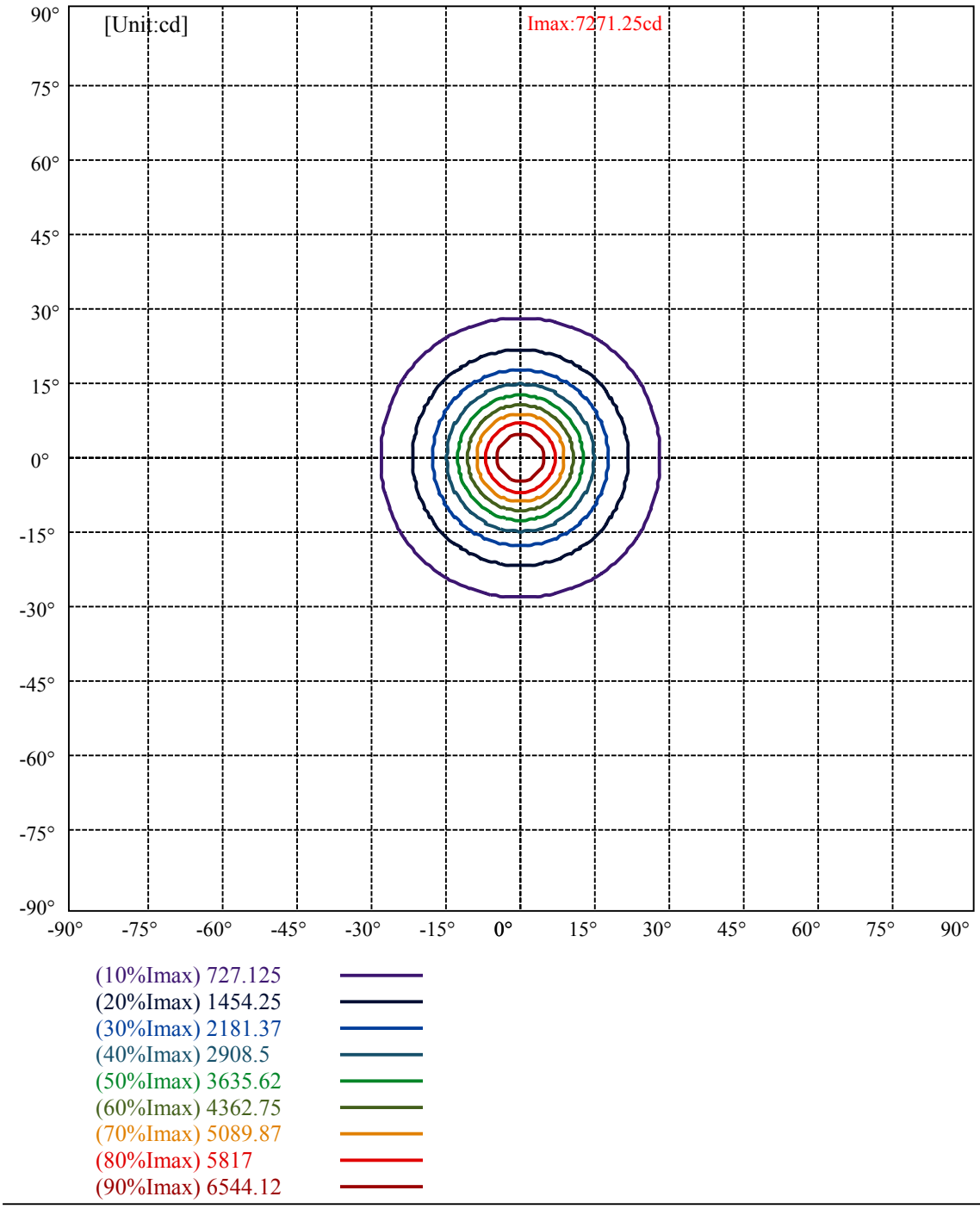
Field angle(10%Imax):C0/180Left:27.8 Right:27.8
:C90/270Left:27.8 Right:27.8

Beam Angle(50%Imax):C0/180Left:12.4 Right:12.4
:C90/270Left:12.4 Right:12.4

Lux distance Curve



ISO-Intensity(V-H)

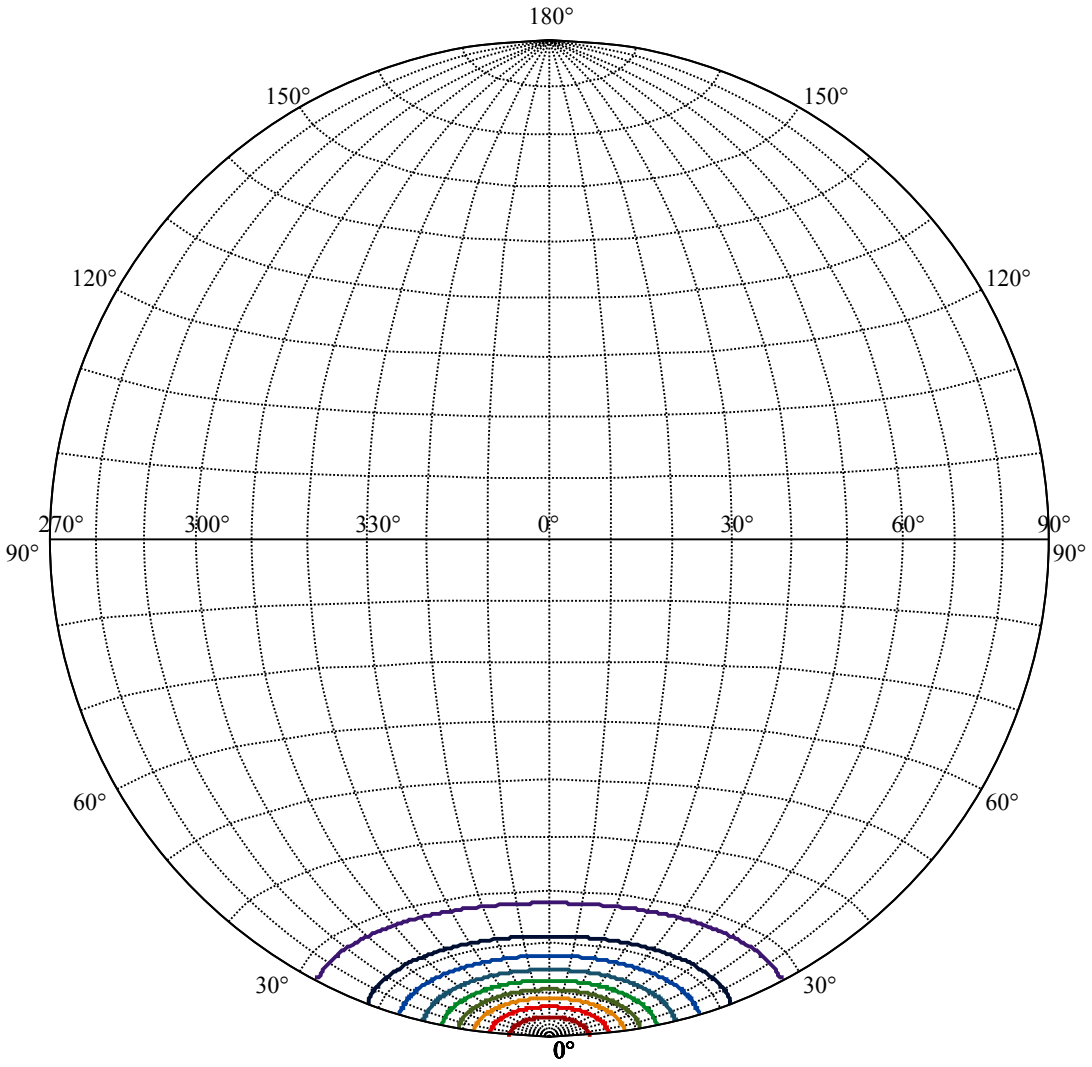


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/27
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

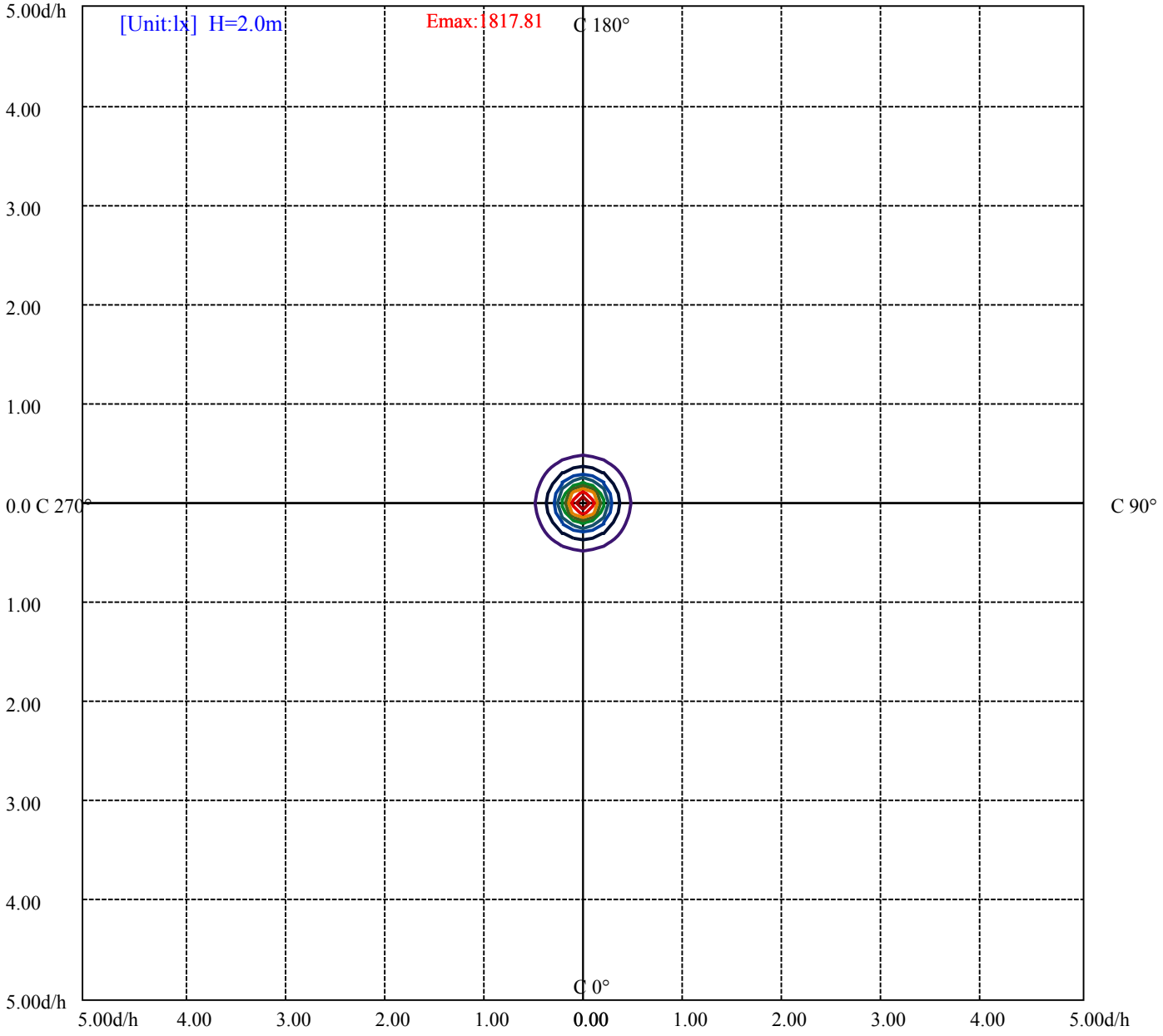
Imax:7271.25

(10%Imax) 727.125
(20%Imax) 1454.25
(30%Imax) 2181.37
(40%Imax) 2908.5
(50%Imax) 3635.62
(60%Imax) 4362.75
(70%Imax) 5089.87
(80%Imax) 5817
(90%Imax) 6544.12

Equipment: GMS1980 Date: 2023/10/27 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

NT 2-2644-L

ISO illuminance diagram

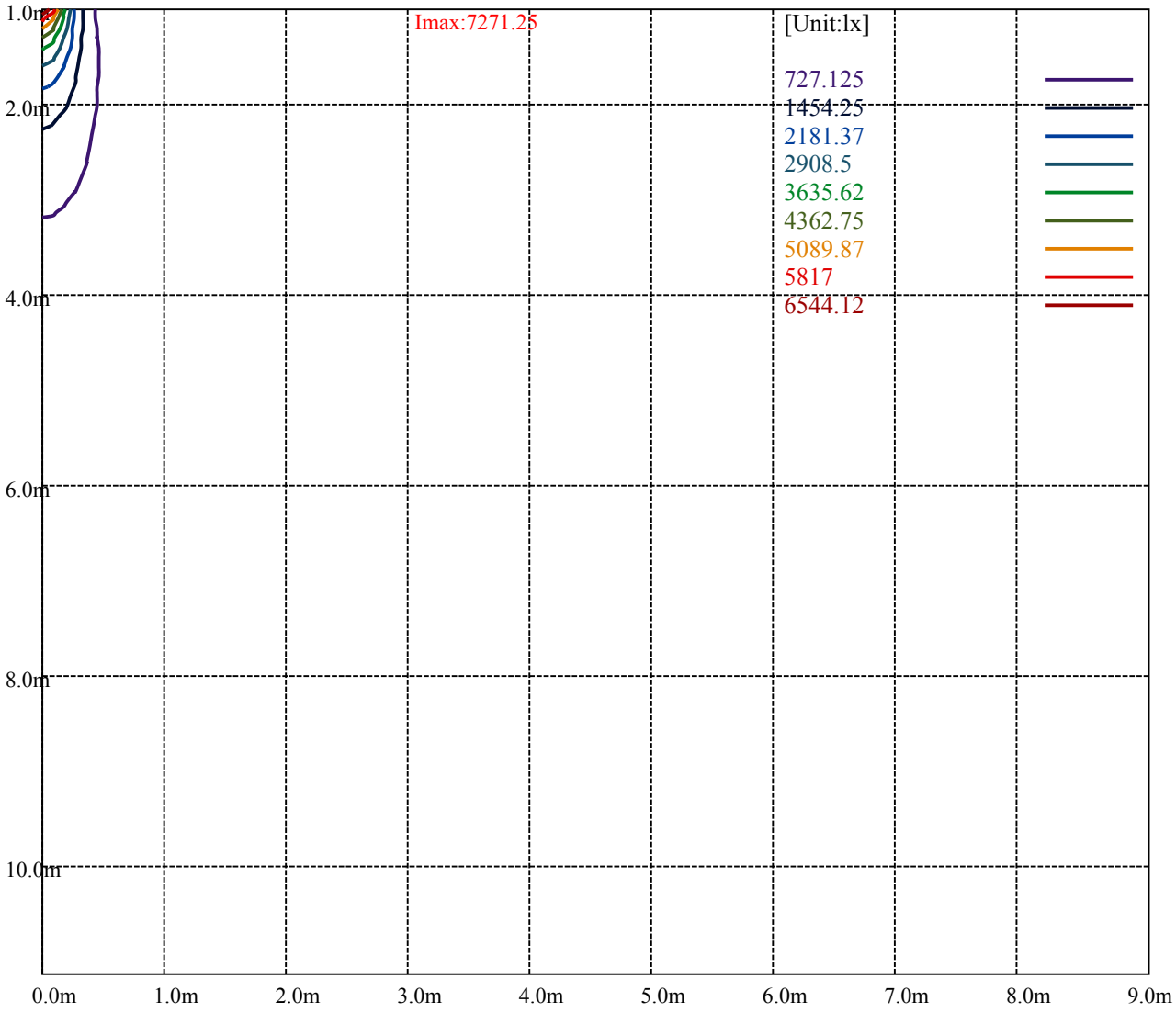


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/27
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/27
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 2-2644-L

Luminance Limitting Curve(no luminous side)

Luminance Table

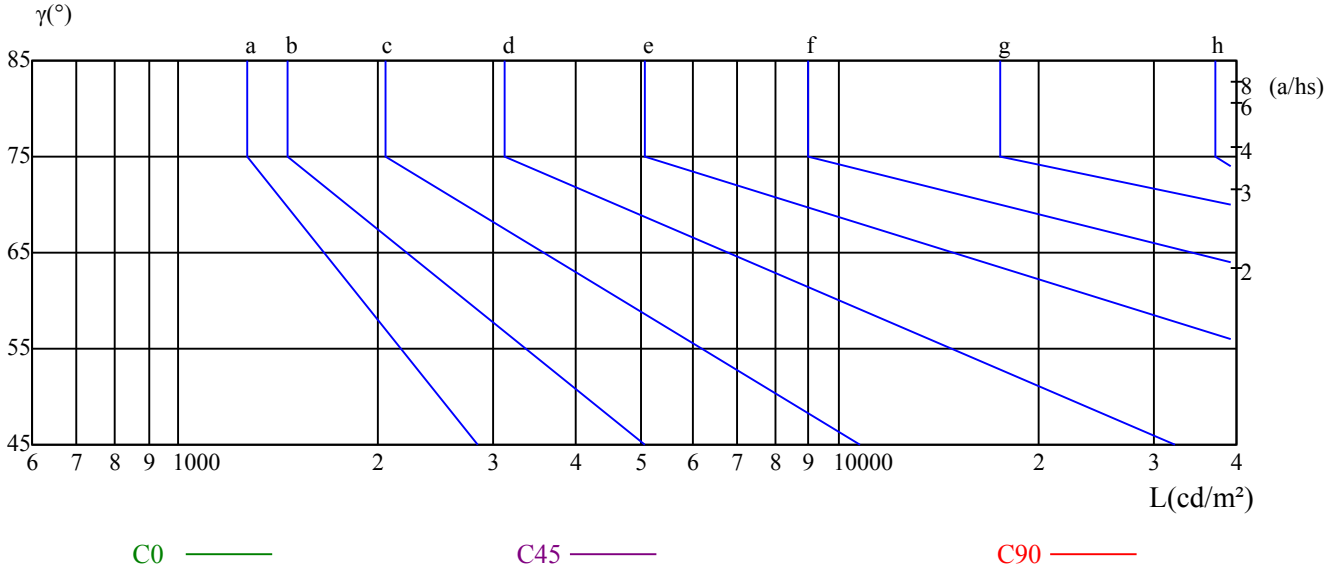
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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



Equipment: GMS1980
Temperature(°C): 0.0

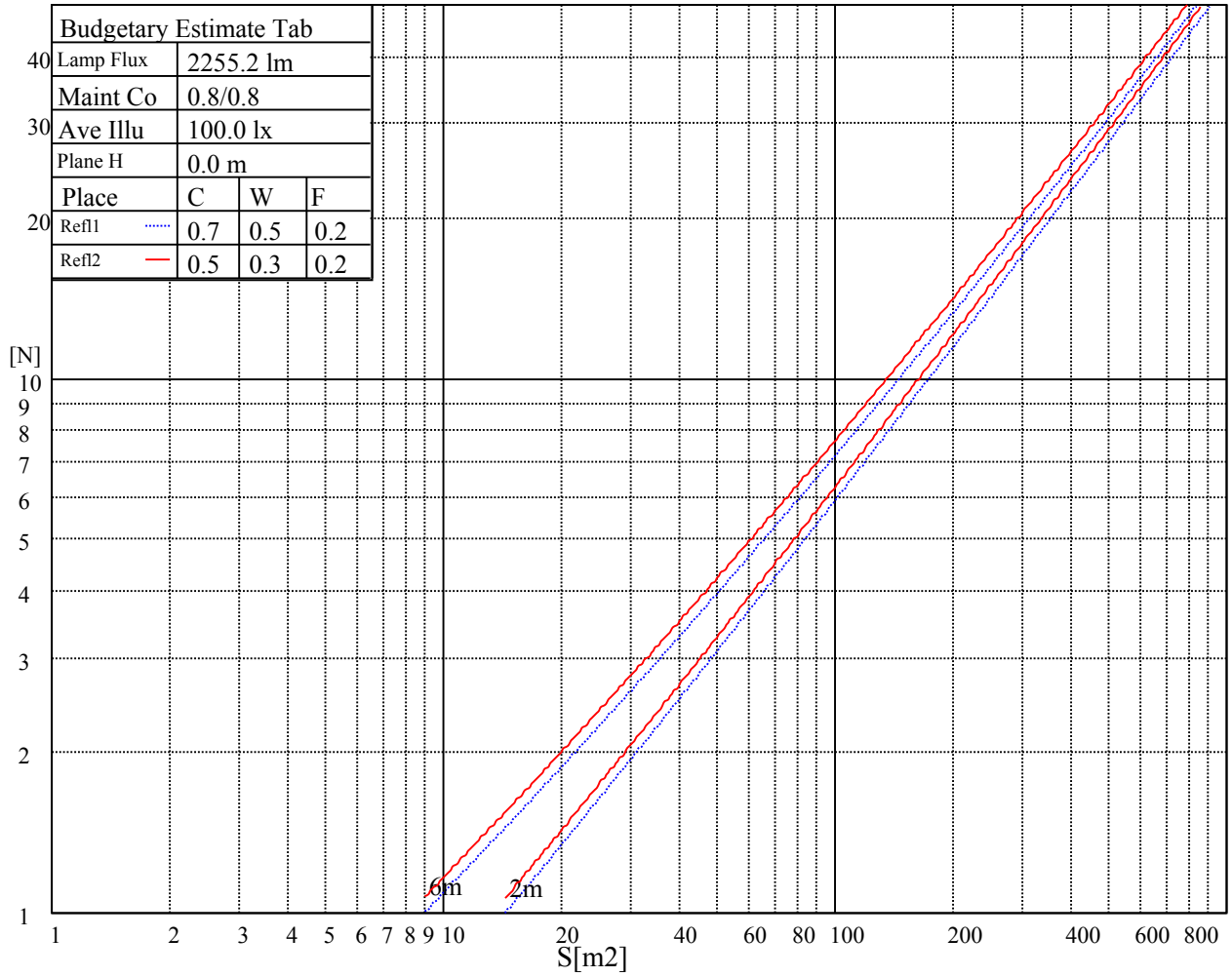
Date: 2023/10/27
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

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

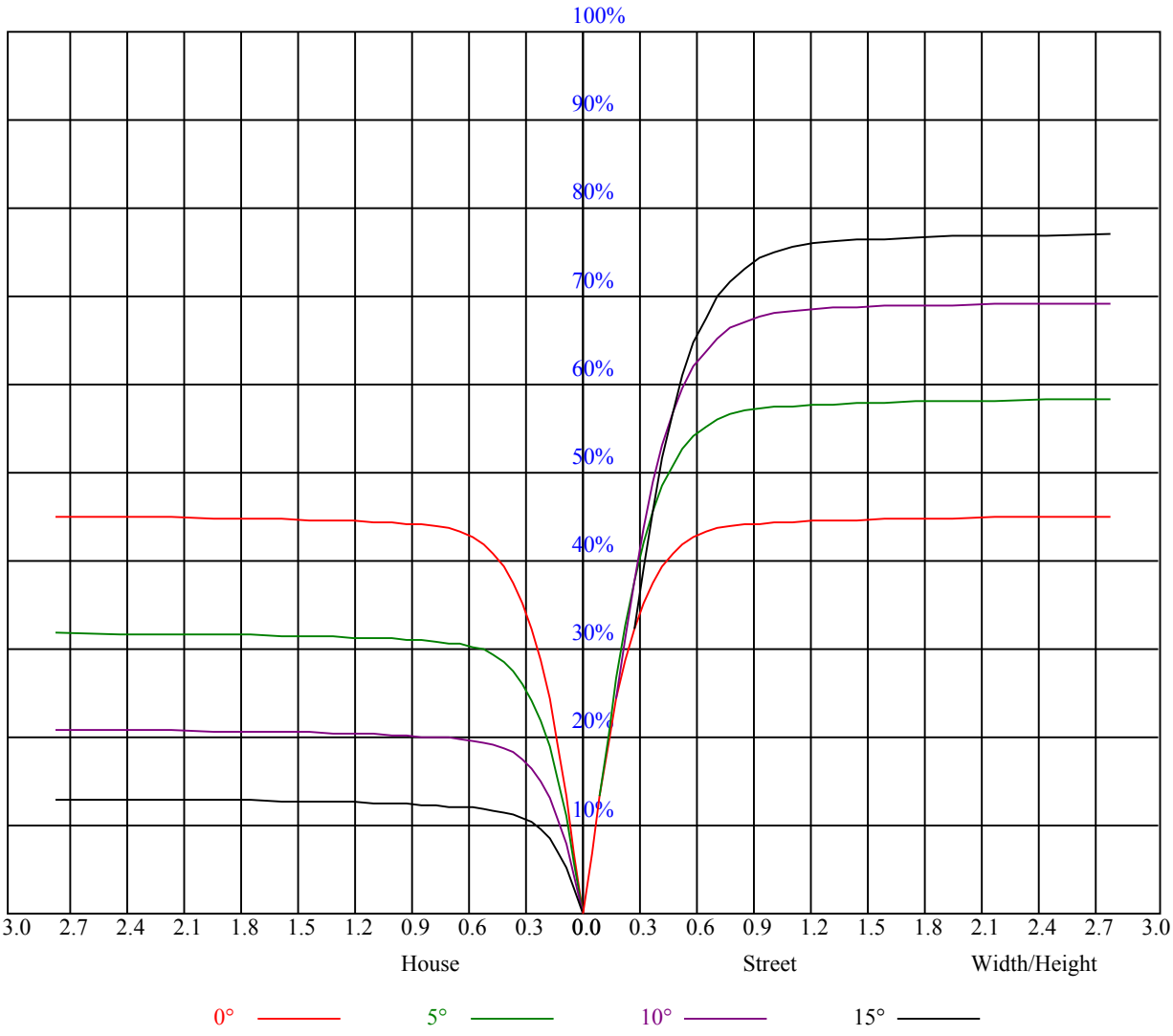


Equipment: GMS1980 Date: 2023/10/27 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.08	1.08	1.08	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.01	0.99	0.98	1.00	0.98	0.96	0.96	0.94	0.93	0.93	0.91	0.90	0.89	0.89	0.88	0.86
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	0.87	0.84	0.90	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.78
4	0.86	0.82	0.79	0.85	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
6	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
7	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66
8	0.73	0.69	0.66	0.73	0.68	0.66	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.62	0.62
10	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.66	0.63	0.60	0.59

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/10/27	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	7229.18	7084.71	6843.92	6621.95	6352.38	5970.44	5631.12	5275.75	4887.17
45.0	7308.34	7223.64	7081.94	6908.13	6652.40	6409.39	6125.98	5813.24	5357.12
90.0	7225.31	7081.39	6856.10	6657.38	6401.64	6107.72	5719.13	5352.69	4975.74
135.0	7322.17	7250.21	7134.53	6936.91	6670.66	6413.82	6125.43	5796.08	5368.75
180.0	7229.18	7317.19	7299.48	7231.95	7063.12	6770.30	6499.07	6224.51	5906.78
225.0	7308.34	7340.44	7263.50	7064.23	6832.85	6487.44	6190.19	5758.44	5385.35
270.0	7225.31	7302.25	7339.33	7254.64	7073.64	6765.87	6488.55	6187.98	5770.06
315.0	7322.17	7291.18	7172.72	6924.18	6689.48	6434.86	6063.99	5721.35	5362.10
360.0	7229.18	7084.71	6843.92	6621.95	6352.38	5970.44	5631.12	5275.75	4887.17

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4401.72	4016.46	3650.57	3331.73	2964.74	2695.17	2451.06	2171.52	1980.55
45.0	4969.65	4472.57	4090.63	3729.17	3326.75	3037.81	2761.59	2438.88	2221.89
90.0	4488.62	4107.79	3746.33	3331.18	3047.77	2782.63	2464.34	2239.05	2049.74
135.0	5006.18	4619.26	4241.75	3793.38	3449.64	3147.96	2807.53	2549.03	2315.44
180.0	5460.63	5101.39	4727.75	4264.99	3890.80	3532.11	3126.37	2850.71	2535.75
225.0	5027.21	4573.31	4205.77	3841.54	3492.26	3101.46	2824.69	2560.66	2336.48
270.0	5420.22	5077.59	4710.59	4327.54	3863.13	3511.08	3187.81	2842.96	2598.30
315.0	4992.89	4520.17	4147.09	3780.10	3435.24	3068.25	2806.43	2550.14	2269.50
360.0	4401.72	4016.46	3650.57	3331.73	2964.74	2695.17	2451.06	2171.52	1980.55

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1806.19	1608.02	1497.87	1337.34	1084.71	1084.71	984.96	863.79	766.65
45.0	2037.01	1863.76	1703.23	1520.56	1387.71	1265.94	1125.89	1021.27	888.98
90.0	1872.06	1668.91	1521.12	1390.48	1098.55	1098.55	1020.50	920.86	795.54
135.0	2068.01	1887.56	1677.77	1526.10	1385.50	1261.51	1149.69	1016.85	916.10
180.0	2300.50	2093.47	1901.95	1696.03	1543.26	1402.66	1273.69	1136.96	1035.67
225.0	2082.96	1897.52	1730.35	1537.17	1397.68	1094.56	1094.56	1017.07	916.43
270.0	2363.05	2147.17	1911.91	1735.89	1543.26	1398.79	1246.56	1134.20	1031.79
315.0	2062.48	1833.31	1666.70	1516.14	1345.65	1090.36	1090.36	1015.74	919.42
360.0	1806.19	1608.02	1497.87	1337.34	1084.71	1084.71	984.96	863.79	766.65

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	673.99	589.24	512.13	423.73	356.75	296.53	233.76	191.74	148.85
45.0	787.68	690.26	579.00	502.06	431.20	364.78	291.71	291.71	231.43
90.0	698.67	608.00	508.59	435.19	352.10	292.43	241.45	198.50	154.99
135.0	814.25	717.94	602.25	525.31	435.63	369.21	308.32	281.20	281.20
180.0	936.03	837.50	719.04	629.37	530.29	473.83	386.92	312.75	285.62
225.0	795.21	703.49	614.92	535.71	447.31	382.60	321.49	267.80	211.28
270.0	933.82	812.59	719.60	629.37	551.32	456.67	388.03	326.59	285.07
315.0	800.03	707.25	618.58	537.48	444.99	377.07	316.57	252.14	208.35
360.0	673.99	589.24	512.13	423.73	356.75	296.53	233.76	191.74	148.85

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	122.22	101.46	81.65	70.52	61.94	55.52	49.04	44.67	41.07
45.0	161.25	126.76	106.00	90.17	77.83	66.20	58.84	53.03	47.16
90.0	128.03	106.67	89.67	74.06	64.49	56.74	49.38	44.84	41.18
135.0	160.36	125.10	103.01	86.07	73.29	61.83	55.02	49.60	45.00
180.0	285.62	171.65	133.90	110.26	91.72	77.55	64.87	57.40	51.81
225.0	173.81	143.53	113.53	95.54	81.81	69.08	61.61	54.58	49.87
270.0	285.07	172.65	142.37	112.53	94.21	80.15	67.14	59.56	53.64
315.0	163.29	134.18	110.38	87.79	74.23	64.15	56.79	50.10	45.72
360.0	122.22	101.46	81.65	70.52	61.94	55.52	49.04	44.67	41.07

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	38.08	34.93	32.77	30.94	29.06	27.90	26.85	25.79	25.13
45.0	43.51	39.58	36.92	34.65	32.11	30.39	29.17	28.01	26.85
90.0	37.42	34.87	32.77	30.44	29.01	27.79	26.74	25.74	25.02
135.0	40.35	37.42	34.76	31.99	30.06	28.17	27.01	25.96	25.19
180.0	47.27	42.51	39.13	35.65	33.32	31.27	29.17	27.84	26.68
225.0	45.83	42.29	38.53	35.98	33.71	31.83	29.78	28.51	27.34
270.0	47.60	43.56	40.24	37.31	34.32	32.22	30.44	29.01	27.51
315.0	42.01	38.86	35.54	33.27	31.33	29.34	28.01	26.96	25.79
360.0	38.08	34.93	32.77	30.94	29.06	27.90	26.85	25.79	25.13

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	24.52	23.75	23.19	22.64	22.03	21.15	20.48	19.87	19.32
45.0	26.07	25.35	24.74	24.02	23.25	22.58	21.59	20.81	20.15
90.0	24.41	23.75	23.03	22.42	21.81	21.09	20.20	19.43	18.82
135.0	24.41	23.86	23.36	22.75	22.09	21.53	20.87	20.15	19.37
180.0	25.79	24.85	24.19	23.64	23.03	22.31	21.81	21.20	20.31
225.0	26.46	25.46	24.74	23.91	23.25	22.64	21.75	20.98	20.26
270.0	26.46	25.74	24.80	24.19	23.36	22.75	22.20	21.53	20.54
315.0	25.19	24.30	23.75	23.19	22.64	22.09	21.26	20.54	19.87
360.0	24.52	23.75	23.19	22.64	22.03	21.15	20.48	19.87	19.32

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.60	18.10	17.66	17.10	16.66	16.16	15.78	15.44	15.17
45.0	19.43	18.71	18.16	17.49	16.88	16.27	15.78	15.17	14.61
90.0	18.21	17.55	16.99	16.44	15.83	15.17	14.67	14.23	13.73
135.0	18.82	18.10	17.55	17.05	16.38	15.83	15.33	14.83	14.23
180.0	19.71	19.10	18.32	17.77	17.10	16.61	16.05	15.50	14.95
225.0	19.65	18.82	18.21	17.66	17.10	16.38	15.78	15.28	14.67
270.0	19.87	19.26	18.60	17.88	17.38	16.83	16.11	15.55	15.00
315.0	19.15	18.54	17.99	17.49	16.83	16.27	15.61	15.17	14.67
360.0	18.60	18.10	17.66	17.10	16.66	16.16	15.78	15.44	15.17

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.83	14.56	14.23	13.78	13.17	12.68	12.34	11.85	11.29
45.0	14.12	13.73	13.28	12.95	12.57	12.29	11.96	11.62	11.40
90.0	13.23	12.90	12.51	12.18	11.79	11.46	11.13	10.85	10.57
135.0	13.67	13.28	12.90	12.45	12.12	11.85	11.46	11.18	10.90
180.0	14.50	13.95	13.56	13.12	12.79	12.45	12.23	11.85	11.57
225.0	14.17	13.67	13.17	12.79	12.34	12.07	11.73	11.40	11.13
270.0	14.39	13.89	13.40	12.95	12.62	12.23	11.85	11.51	11.24
315.0	14.12	13.67	13.40	13.12	12.73	12.45	12.12	11.85	11.46
360.0	14.83	14.56	14.23	13.78	13.17	12.68	12.34	11.85	11.29

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.96	10.57	10.30	9.96	9.63	9.02	8.80	8.58	8.58
45.0	10.96	10.57	10.30	9.96	9.74	9.19	8.97	8.69	8.52
90.0	10.24	10.07	9.80	9.58	9.19	9.02	8.80	8.52	8.52
135.0	10.63	10.35	10.02	9.85	9.52	9.24	8.97	8.80	8.58
180.0	11.29	11.02	10.63	10.41	10.07	9.52	9.24	9.02	8.80
225.0	10.79	10.46	10.24	9.91	9.69	9.30	9.08	8.86	8.64
270.0	10.96	10.57	10.30	10.02	9.74	9.52	9.19	8.97	8.75
315.0	11.13	10.79	10.46	10.13	9.85	9.58	9.08	8.86	8.69
360.0	10.96	10.57	10.30	9.96	9.63	9.02	8.80	8.58	8.58

Intensity data(cd)

C/γ(°)	90.0
0.0	8.58
45.0	8.52
90.0	8.52
135.0	8.58
180.0	8.58
225.0	8.52
270.0	8.52
315.0	8.52
360.0	8.58