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: 1-1377-L
Luminaire: 92.70.427.00
Report No: 20231120-B010
Ballast type: AC

Test No: 20231120-C010	Voltage(V): 36.530
LampCAT: P2121-018-1203-P3090-1	Current(A): 0.399
Lamp flux(lm): 2085.4	Power (W): 14.575
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1921.05, Efficiency(%): 92.12% , Luminous Efficacy(lm/W): 131.80
Central intensity(cd): 8719.022, Maximum intensity(cd): 8719.022
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=20.6
[C90/270]Total=20.6
Field angle(10%Imax): [C0/180]Total=50.6
[C90/270]Total=50.6
Maximum s/h(1/2): C0_180=0.35 C90_270=0.35
Maximum s/h(1/4): C0_180=0.38 C90_270=0.38
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.12%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.146%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8719.022	0.000	0	0.00%	0.00%
1.0	8669.896	8.320	8.32	0.40%	0.43%
2.0	8528.744	24.685	33.005	1.18%	1.72%
3.0	8292.869	40.232	73.237	1.93%	3.81%
4.0	7958.187	54.397	127.635	2.61%	6.64%
5.0	7512.452	66.554	194.189	3.19%	10.11%
6.0	6991.782	76.224	270.412	3.66%	14.08%
7.0	6386.352	83.038	353.45	3.98%	18.40%
8.0	5749.924	86.857	440.307	4.17%	22.92%
9.0	5101.457	87.945	528.252	4.22%	27.50%
10.0	4526.333	87.128	615.38	4.18%	32.03%
11.0	4000.889	85.204	700.584	4.09%	36.47%
12.0	3499.662	81.992	782.576	3.93%	40.74%
13.0	3088.523	78.185	860.761	3.75%	44.81%
14.0	2740.418	74.610	935.371	3.58%	48.69%
15.0	2437.288	71.082	1006.453	3.41%	52.39%
16.0	2170.968	67.524	1073.977	3.24%	55.91%
17.0	1948.516	64.151	1138.128	3.08%	59.25%
18.0	1767.371	61.267	1199.395	2.94%	62.43%
19.0	1598.474	58.559	1257.954	2.81%	65.48%
20.0	1450.334	55.802	1313.755	2.68%	68.39%
21.0	1282.806	52.482	1366.237	2.52%	71.12%
22.0	1192.545	49.743	1415.98	2.39%	73.71%
23.0	1114.925	48.417	1464.397	2.32%	76.23%
24.0	1010.937	46.479	1510.876	2.23%	78.65%
25.0	906.111	43.589	1554.466	2.09%	80.92%
26.0	799.901	40.271	1594.736	1.93%	83.01%
27.0	702.576	36.758	1631.495	1.76%	84.93%
28.0	600.144	32.982	1664.477	1.58%	86.64%
29.0	511.440	29.082	1693.559	1.39%	88.16%
30.0	422.161	25.207	1718.766	1.21%	89.47%
31.0	344.292	21.329	1740.095	1.02%	90.58%
32.0	275.066	17.744	1757.839	0.85%	91.50%
33.0	235.758	15.049	1772.888	0.72%	92.29%
34.0	203.231	13.285	1786.173	0.64%	92.98%
35.0	150.327	10.980	1797.154	0.53%	93.55%
36.0	127.991	8.862	1806.015	0.42%	94.01%
37.0	112.638	7.848	1813.863	0.38%	94.42%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	99.726	7.088	1820.952	0.34%	94.79%
39.0	87.161	6.379	1827.331	0.31%	95.12%
40.0	76.955	5.724	1833.054	0.27%	95.42%
41.0	68.078	5.165	1838.219	0.25%	95.69%
42.0	59.948	4.651	1842.87	0.22%	95.93%
43.0	52.634	4.170	1847.041	0.20%	96.15%
44.0	46.919	3.757	1850.798	0.18%	96.34%
45.0	41.605	3.402	1854.2	0.16%	96.52%
46.0	37.509	3.094	1857.294	0.15%	96.68%
47.0	33.897	2.840	1860.134	0.14%	96.83%
48.0	30.853	2.618	1862.752	0.13%	96.97%
49.0	28.348	2.431	1865.183	0.12%	97.09%
50.0	26.155	2.272	1867.455	0.11%	97.21%
51.0	24.383	2.138	1869.594	0.10%	97.32%
52.0	22.840	2.026	1871.62	0.10%	97.43%
53.0	21.574	1.932	1873.552	0.09%	97.53%
54.0	20.515	1.855	1875.407	0.09%	97.62%
55.0	19.547	1.788	1877.195	0.09%	97.72%
56.0	18.765	1.731	1878.927	0.08%	97.81%
57.0	18.059	1.684	1880.61	0.08%	97.89%
58.0	17.471	1.643	1882.253	0.08%	97.98%
59.0	16.924	1.608	1883.861	0.08%	98.06%
60.0	16.468	1.578	1885.439	0.08%	98.15%
61.0	16.039	1.551	1886.99	0.07%	98.23%
62.0	15.596	1.524	1888.514	0.07%	98.31%
63.0	15.201	1.498	1890.012	0.07%	98.38%
64.0	14.814	1.473	1891.485	0.07%	98.46%
65.0	14.433	1.447	1892.933	0.07%	98.54%
66.0	14.018	1.420	1894.352	0.07%	98.61%
67.0	13.624	1.390	1895.742	0.07%	98.68%
68.0	13.216	1.360	1897.102	0.07%	98.75%
69.0	12.807	1.328	1898.429	0.06%	98.82%
70.0	12.420	1.296	1899.725	0.06%	98.89%
71.0	12.081	1.266	1900.991	0.06%	98.96%
72.0	11.728	1.238	1902.229	0.06%	99.02%
73.0	11.403	1.210	1903.439	0.06%	99.08%
74.0	11.126	1.184	1904.623	0.06%	99.14%
75.0	10.849	1.161	1905.784	0.06%	99.21%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.593	1.138	1906.923	0.05%	99.26%
77.0	10.351	1.117	1908.039	0.05%	99.32%
78.0	10.130	1.096	1909.136	0.05%	99.38%
79.0	9.901	1.076	1910.212	0.05%	99.44%
80.0	9.715	1.058	1911.269	0.05%	99.49%
81.0	9.562	1.042	1912.312	0.05%	99.55%
82.0	9.424	1.030	1913.341	0.05%	99.60%
83.0	9.286	1.017	1914.359	0.05%	99.65%
84.0	9.120	1.003	1915.361	0.05%	99.70%
85.0	8.926	0.985	1916.346	0.05%	99.76%
86.0	8.760	0.967	1917.313	0.05%	99.81%
87.0	8.656	0.953	1918.266	0.05%	99.86%
88.0	8.566	0.943	1919.209	0.05%	99.90%
89.0	8.345	0.927	1920.136	0.04%	99.95%
90.0	8.338	0.915	1921.051	0.04%	100.00%

Zonal flux distribution table

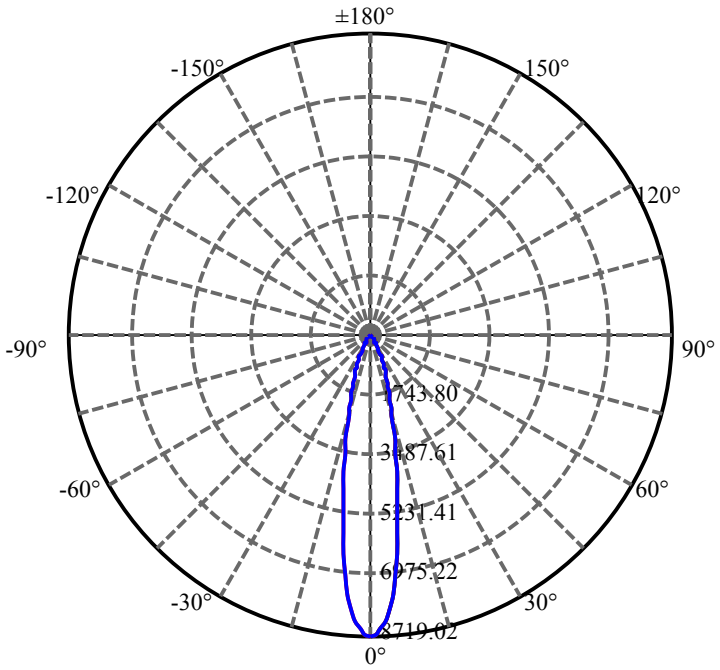
ZONAL LUMEN SUMMARY

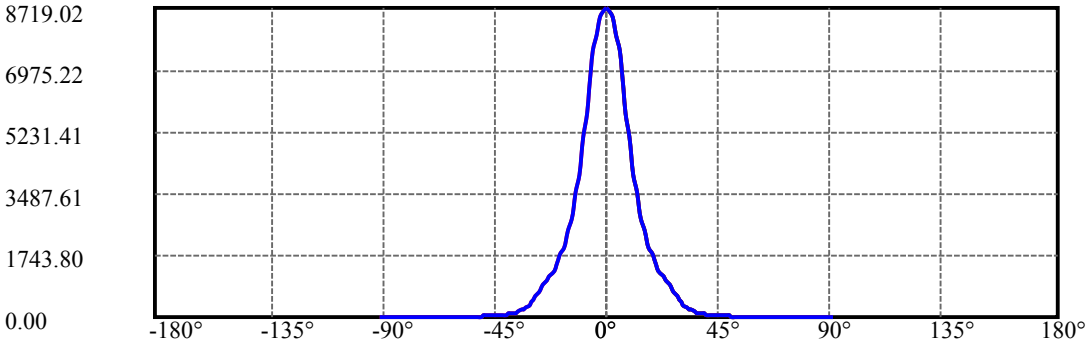
Zone	Lumens	%Lamp	%Fixt
0-30	1718.77	82.42%	89.47%
0-40	1833.05	87.90%	95.42%
0-60	1885.44	90.41%	98.15%
0-90	1920.14	92.08%	99.95%
0-120	1920.14	92.08%	99.95%
0-180	1921.05	92.12%	100.00%
60-90	34.70	1.66%	1.81%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.60	1536.84	73.70%	80.00%

ZONAL LUMEN SUMMARY

0-10	615.38
10-20	698.38
20-30	405.01
30-40	114.29
40-50	34.40
50-60	17.98
60-70	14.29
70-80	11.54
80-90	8.87
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):

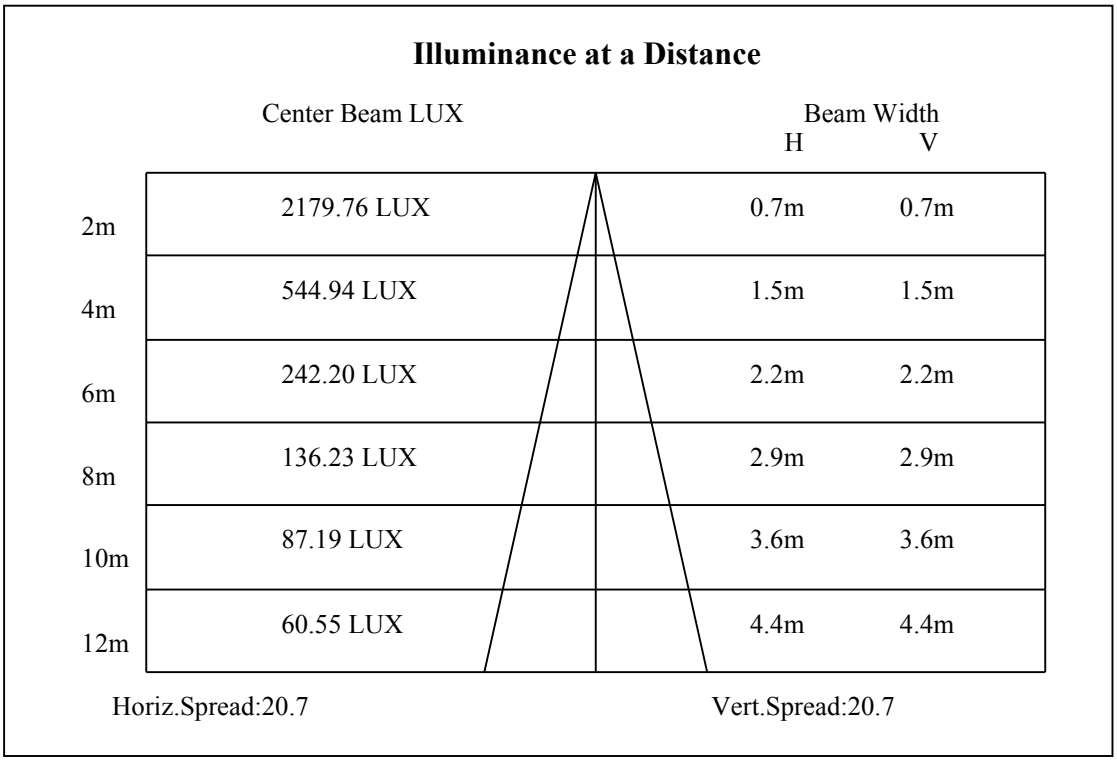
C0/C180:

C90/C270:

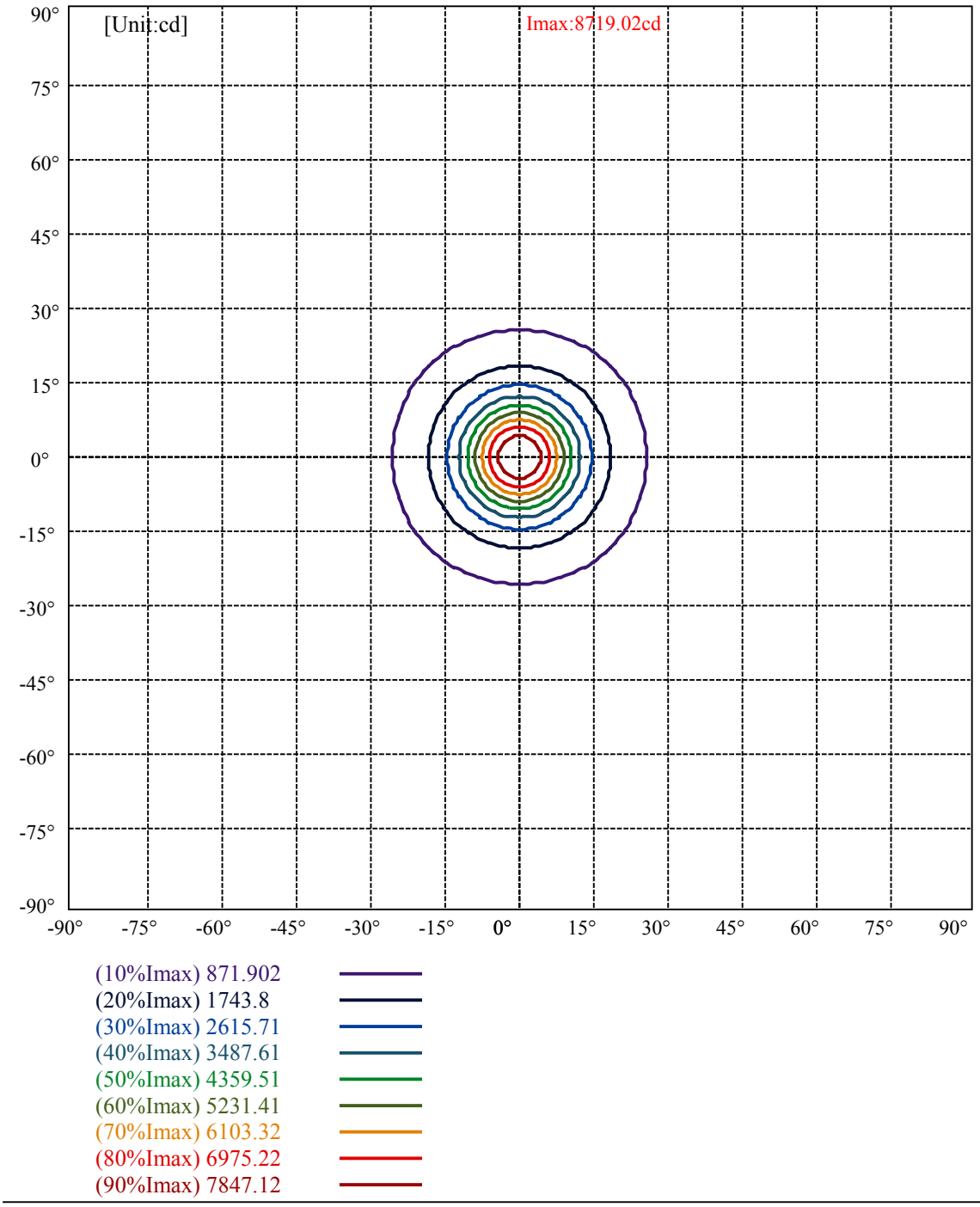
Field angle(10%Imax):C0/180Left:25.3 Right:25.3
:C90/270Left:25.3 Right:25.3

Beam Angle(50%Imax):C0/180Left:10.3 Right:10.3
:C90/270Left:10.3 Right:10.3

Lux distance Curve



ISO-Intensity(V-H)

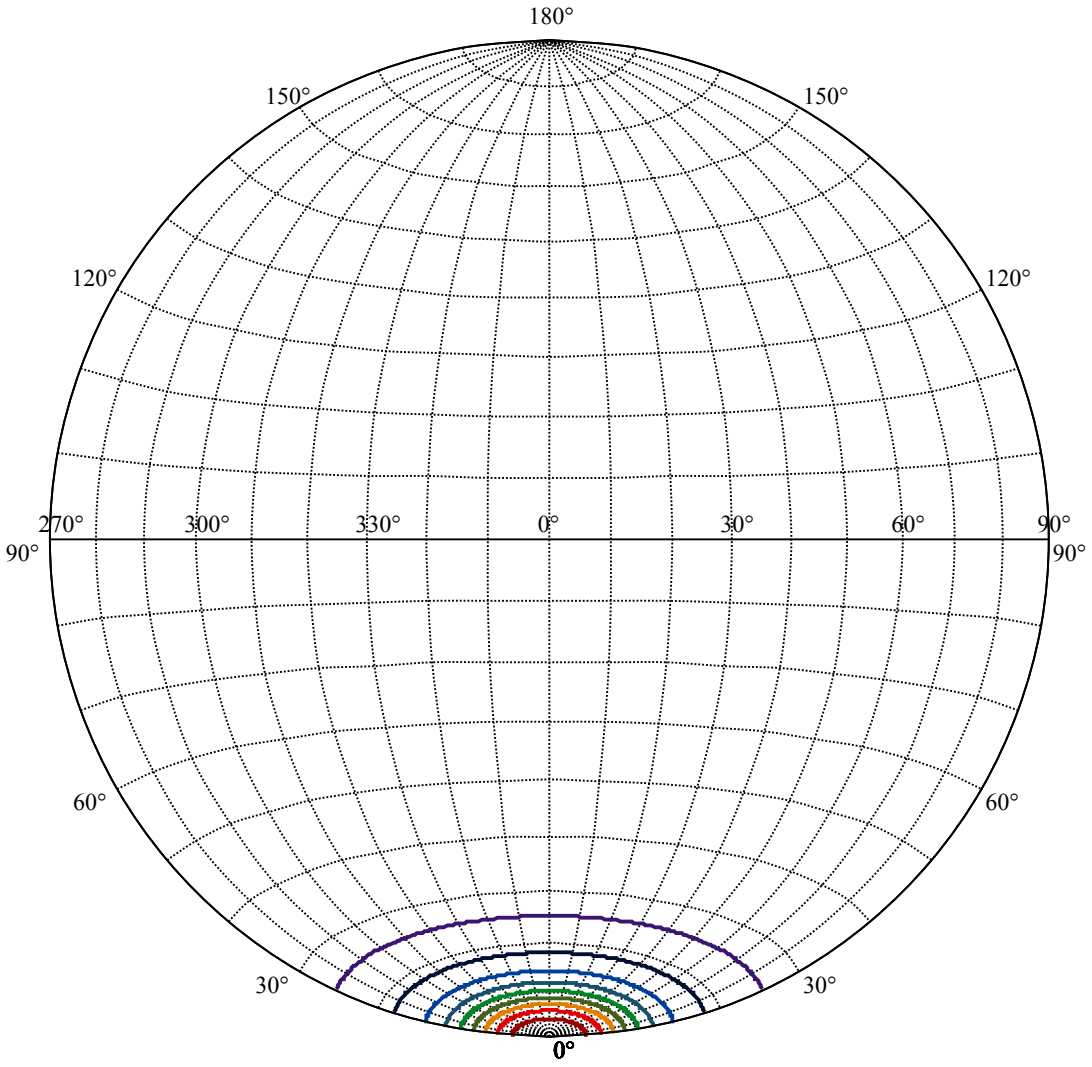


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/20
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

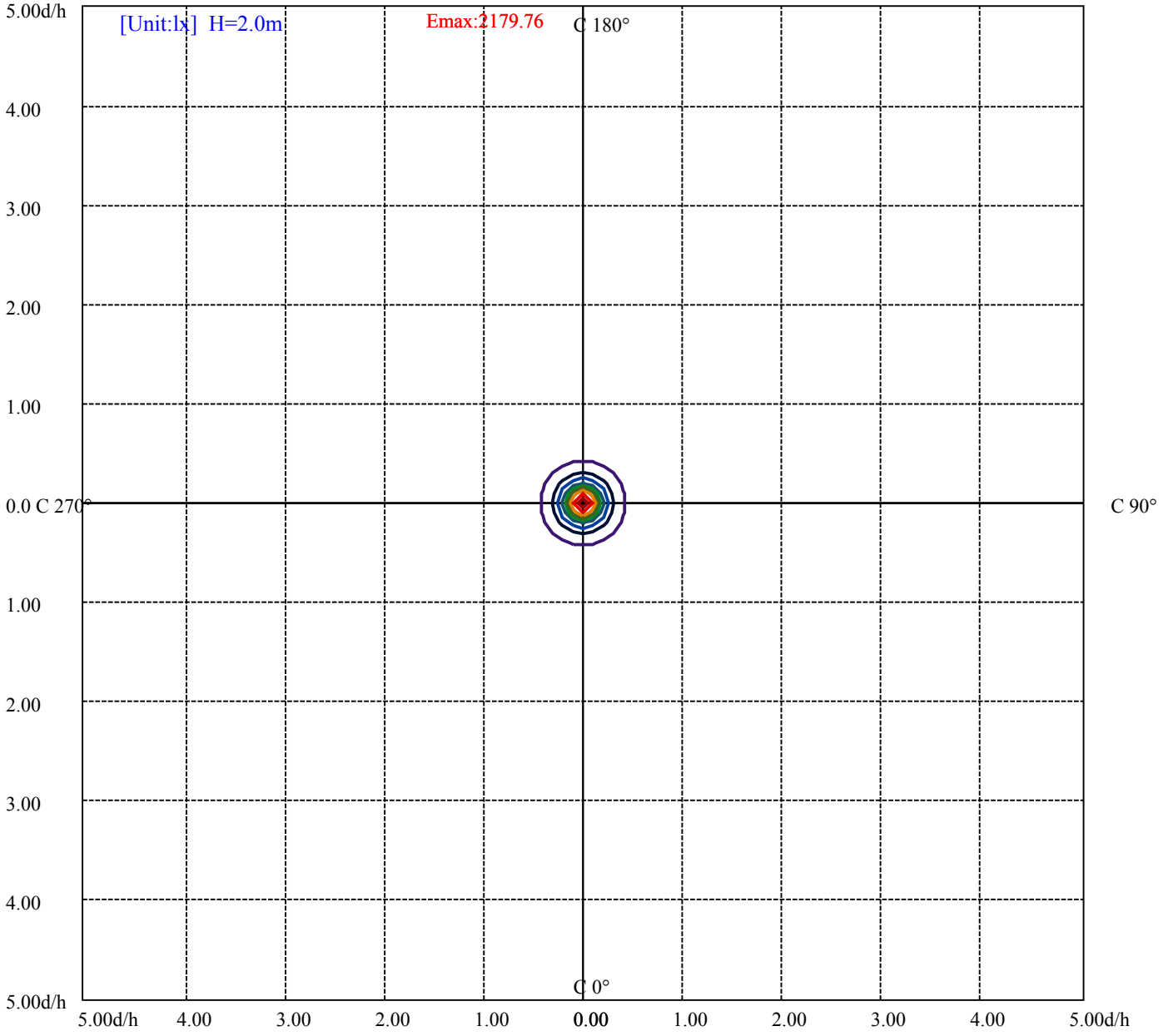
Imax:8719.02

(10%Imax) 871.902
(20%Imax) 1743.8
(30%Imax) 2615.71
(40%Imax) 3487.61
(50%Imax) 4359.51
(60%Imax) 5231.41
(70%Imax) 6103.32
(80%Imax) 6975.22
(90%Imax) 7847.12

Equipment: GMS1980 Date: 2023/11/20 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

NT 1-1377-L

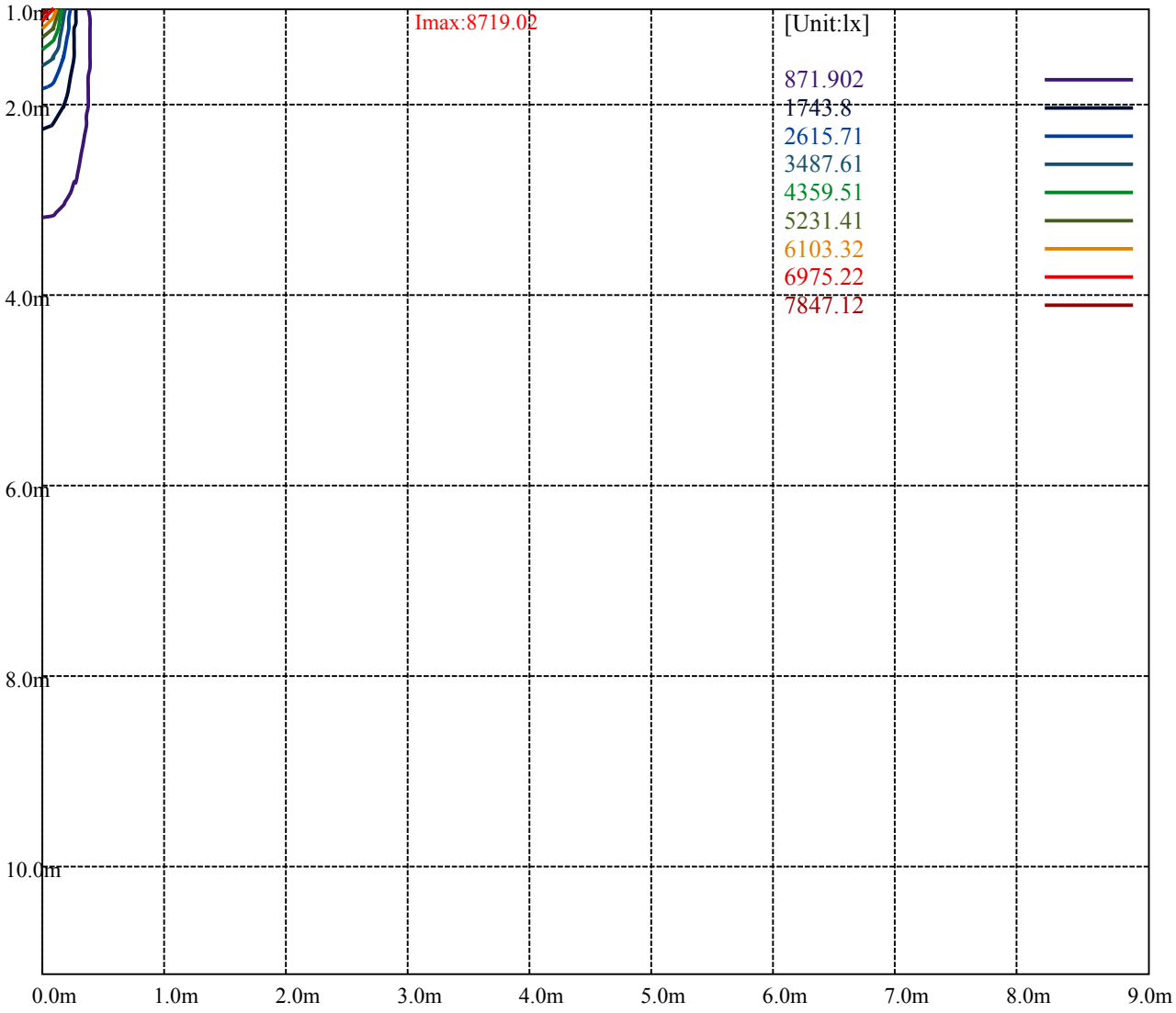
ISO illuminance diagram



(10%Emax) 217.9753
(20%Emax) 435.95
(30%Emax) 653.925
(40%Emax) 871.9025
(50%Emax) 1089.877
(60%Emax) 1307.853
(70%Emax) 1525.828
(80%Emax) 1743.802
(90%Emax) 1961.777

Equipment: GMS1980
Temperature(°C): 0.0
Date: 2023/11/20
Humidity(%): 0.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/20
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 1-1377-L

Luminance Limitting Curve(no luminous side)

Luminance Table

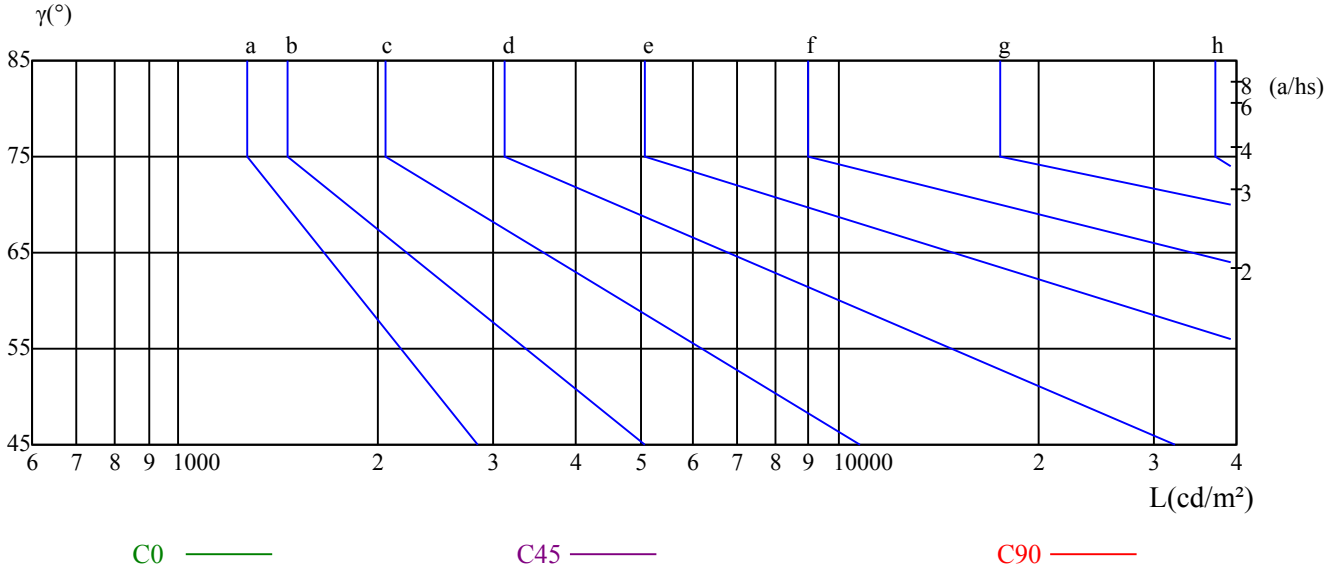
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

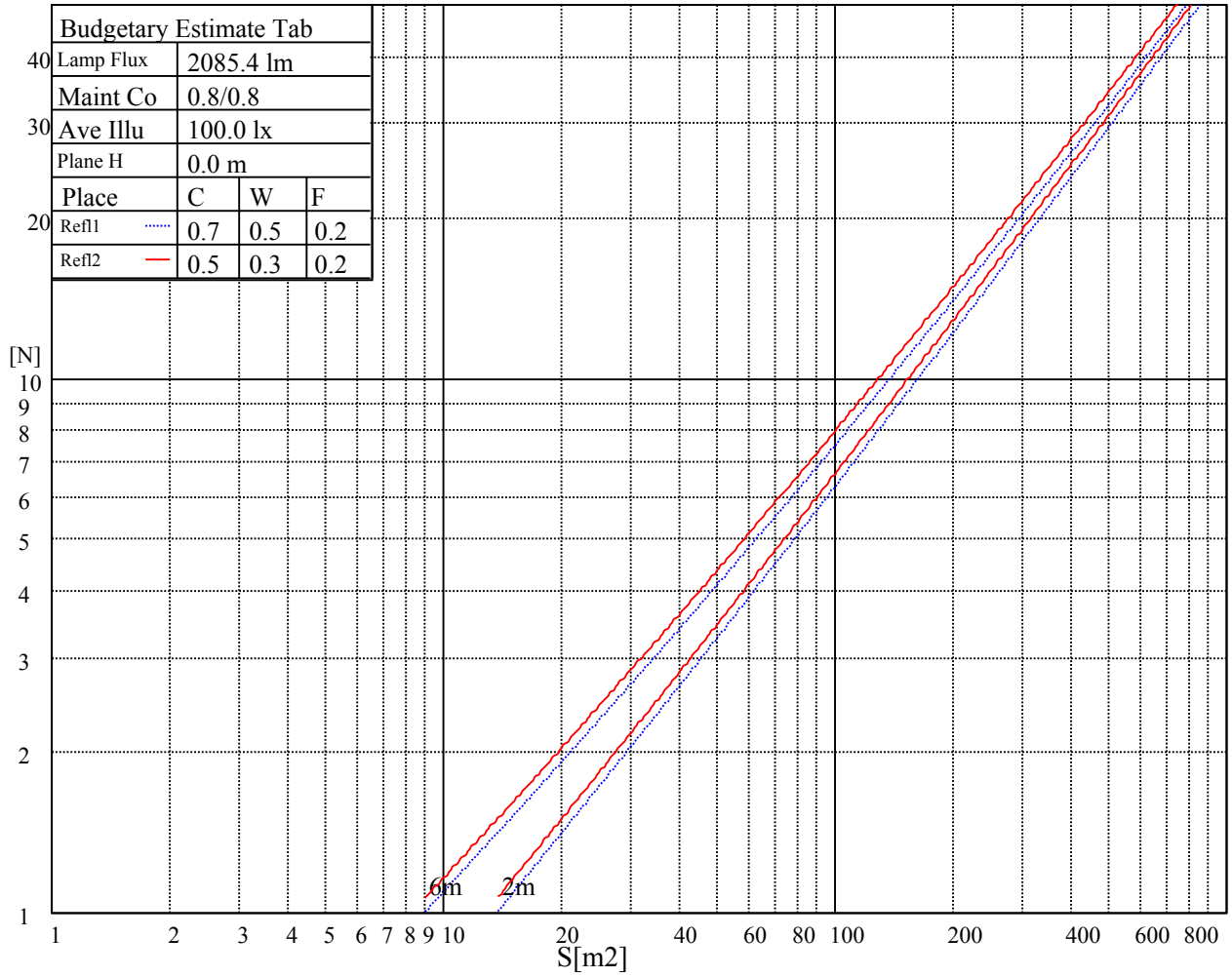
Date: 2023/11/20
Humidity(%): 0.0%

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

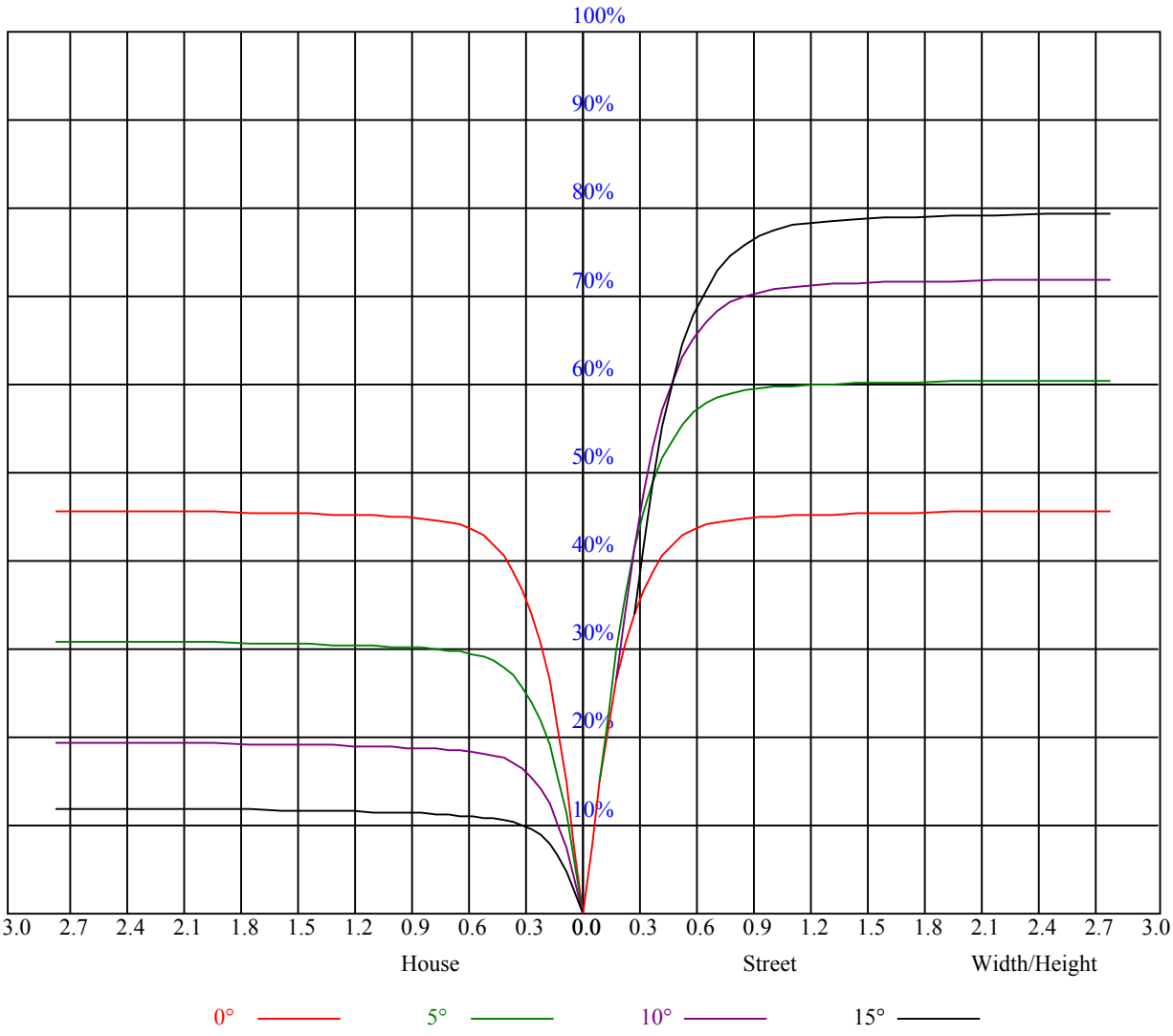


Equipment: GMS1980 Date: 2023/11/20 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/11/20	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	8664.50	8448.07	8180.16	7844.16	7288.96	6744.28	6166.39	5564.14	4820.75
45.0	8723.17	8693.84	8580.92	8381.09	8014.65	7593.96	7102.97	6401.09	5795.52
90.0	8740.33	8650.66	8423.16	8122.59	7751.16	7280.66	6595.93	5990.92	5216.52
135.0	8748.08	8740.33	8652.32	8459.14	8183.48	7704.67	7242.47	6556.08	5966.01
180.0	8664.50	8713.76	8687.19	8595.31	8420.94	8079.96	7703.56	7253.54	6698.89
225.0	8723.17	8667.82	8529.44	8232.74	7902.83	7493.22	6871.60	6292.60	5686.48
270.0	8740.33	8750.30	8701.03	8503.97	8237.72	7902.28	7488.79	6854.44	6245.55
315.0	8748.08	8694.39	8475.74	8203.96	7865.75	7300.59	6762.55	6178.02	5569.68
360.0	8664.50	8448.07	8180.16	7844.16	7288.96	6744.28	6166.39	5564.14	4820.75

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4275.51	3785.63	3354.98	2901.64	2594.98	2328.17	2043.10	1847.15	1645.66
45.0	5196.04	4604.31	4077.90	3506.65	3107.00	2684.65	2400.13	2151.04	1889.22
90.0	4633.10	4100.04	3520.49	3128.59	2790.37	2496.45	2191.45	1988.30	1808.96
135.0	5365.98	4791.41	4261.67	3672.16	3266.42	2917.13	2618.78	2301.60	2091.81
180.0	5958.26	5372.62	4772.59	4226.25	3630.09	3238.19	2894.99	2526.34	2271.16
225.0	5083.12	4376.81	3884.72	3458.49	3082.64	2685.76	2418.40	2183.70	1931.84
270.0	5488.86	4919.27	4357.99	3753.53	3336.16	2973.04	2655.87	2317.66	2088.49
315.0	4810.78	4260.57	3776.78	3350.00	2900.53	2599.96	2275.59	2051.96	1860.99
360.0	4275.51	3785.63	3354.98	2901.64	2594.98	2328.17	2043.10	1847.15	1645.66

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1507.83	1386.05	1209.48	1085.59	1062.24	957.51	863.02	745.72	658.93
45.0	1723.71	1579.79	1420.37	1309.11	1210.58	1122.02	1007.99	910.01	812.04
90.0	1655.07	1484.03	1368.34	1098.99	1098.99	1050.06	951.20	833.18	737.48
135.0	1906.38	1707.66	1570.38	1417.61	1308.56	1207.82	1078.84	972.01	869.05
180.0	2059.15	1838.85	1677.21	1542.15	1393.80	1286.42	1189.00	1088.25	961.49
225.0	1753.05	1569.83	1440.85	1323.50	1093.62	1093.62	993.71	893.41	794.32
270.0	1884.24	1717.62	1534.40	1396.02	1283.10	1159.66	1065.56	965.92	844.70
315.0	1649.54	1503.96	1381.63	1089.47	1089.47	1042.31	938.19	840.38	721.20
360.0	1507.83	1386.05	1209.48	1085.59	1062.24	957.51	863.02	745.72	658.93

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	570.20	486.56	392.07	320.55	259.28	191.86	155.99	133.18	114.14
45.0	718.49	602.25	513.13	410.72	336.55	286.18	286.18	164.84	140.32
90.0	640.44	525.36	439.51	362.46	278.65	222.30	179.79	151.39	128.25
135.0	765.54	647.64	557.41	472.17	393.01	303.34	287.29	287.29	165.18
180.0	861.86	766.09	672.55	560.18	476.59	397.44	305.55	290.05	221.97
225.0	676.53	585.64	499.01	414.60	321.49	259.66	211.01	171.54	151.12
270.0	750.59	637.67	546.89	462.20	383.60	312.19	280.64	280.64	159.81
315.0	636.95	549.94	470.95	374.41	305.16	227.56	179.62	146.91	121.83
360.0	570.20	486.56	392.07	320.55	259.28	191.86	155.99	133.18	114.14

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	101.02	90.00	77.77	68.80	60.94	54.47	47.44	42.57	38.47
45.0	122.66	105.01	93.10	82.26	72.57	64.38	55.35	49.43	44.12
90.0	113.20	100.47	86.24	76.00	66.92	59.51	51.37	45.72	39.85
135.0	141.37	125.93	112.20	96.81	85.80	73.73	65.59	58.56	52.14
180.0	161.80	143.37	127.31	109.99	97.87	86.74	76.55	65.98	58.56
225.0	134.84	117.63	105.39	90.95	80.65	71.52	63.60	55.08	49.10
270.0	140.54	122.05	109.38	97.87	84.80	75.39	66.98	57.90	51.81
315.0	108.49	96.65	86.41	74.62	66.09	58.90	52.70	45.83	41.29
360.0	101.02	90.00	77.77	68.80	60.94	54.47	47.44	42.57	38.47

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	34.15	31.39	29.06	26.57	24.91	23.53	22.09	21.09	20.20
45.0	38.58	34.93	31.88	28.67	26.51	24.30	22.86	21.64	20.59
90.0	35.98	32.66	29.95	27.12	25.19	23.64	22.31	20.87	19.87
135.0	45.33	40.80	36.87	33.49	30.06	27.73	25.79	23.80	22.53
180.0	52.09	46.39	40.41	36.42	33.10	29.61	27.34	24.96	23.41
225.0	44.01	39.63	35.20	32.11	29.61	27.46	25.24	23.75	22.14
270.0	45.22	40.85	37.09	33.93	31.27	28.45	26.63	24.96	23.25
315.0	37.47	33.43	30.72	28.51	26.13	24.52	22.81	21.64	20.59
360.0	34.15	31.39	29.06	26.57	24.91	23.53	22.09	21.09	20.20

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	19.26	18.60	17.99	17.49	16.94	16.55	16.16	15.78	15.39
45.0	19.48	18.76	18.05	17.27	16.77	16.33	15.94	15.44	15.11
90.0	19.10	18.16	17.55	16.99	16.38	16.00	15.61	15.22	14.89
135.0	21.37	20.15	19.32	18.43	17.82	17.27	16.83	16.38	15.78
180.0	22.14	20.76	19.87	19.10	18.38	17.66	17.16	16.66	16.16
225.0	21.09	20.20	19.21	18.54	17.93	17.38	16.77	16.33	15.89
270.0	22.03	21.03	20.09	19.15	18.54	17.77	17.21	16.77	16.22
315.0	19.65	18.71	18.05	17.49	16.99	16.44	16.05	15.72	15.33
360.0	19.26	18.60	17.99	17.49	16.94	16.55	16.16	15.78	15.39

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.00	14.67	14.23	13.84	13.40	13.01	12.62	12.29	11.90
45.0	14.83	14.45	14.12	13.73	13.40	13.06	12.68	12.23	11.96
90.0	14.56	14.17	13.84	13.45	13.06	12.62	12.23	11.90	11.62
135.0	15.39	15.00	14.67	14.23	13.84	13.45	13.01	12.62	12.23
180.0	15.67	15.28	14.89	14.45	14.12	13.73	13.34	12.84	12.57
225.0	15.44	15.00	14.56	14.17	13.67	13.28	12.73	12.45	12.07
270.0	15.78	15.33	15.00	14.45	14.06	13.62	13.23	12.73	12.34
315.0	14.95	14.61	14.17	13.84	13.45	12.95	12.62	12.29	11.96
360.0	15.00	14.67	14.23	13.84	13.40	13.01	12.62	12.29	11.90

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.57	11.29	11.07	10.79	10.57	10.35	10.07	9.85	9.69
45.0	11.68	11.35	11.13	10.79	10.57	10.35	10.13	9.91	9.69
90.0	11.29	11.02	10.74	10.52	10.35	10.07	9.91	9.74	9.58
135.0	11.85	11.51	11.18	10.96	10.68	10.46	10.19	9.96	9.80
180.0	12.12	11.73	11.46	11.07	10.74	10.46	10.30	10.02	9.80
225.0	11.73	11.35	11.02	10.79	10.52	10.24	10.02	9.80	9.63
270.0	12.01	11.62	11.35	11.02	10.74	10.52	10.24	10.02	9.80
315.0	11.57	11.35	11.07	10.85	10.57	10.35	10.19	9.91	9.74
360.0	11.57	11.29	11.07	10.79	10.57	10.35	10.07	9.85	9.69

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.52	9.41	9.24	9.02	8.80	8.69	8.58	8.41	8.30
45.0	9.52	9.41	9.19	9.08	8.86	8.69	8.58	8.47	8.30
90.0	9.47	9.24	9.13	8.97	8.80	8.69	8.64	8.47	8.19
135.0	9.69	9.47	9.35	9.08	8.97	8.80	8.69	8.69	8.36
180.0	9.63	9.47	9.35	9.30	9.02	8.86	8.69	8.69	8.52
225.0	9.47	9.35	9.19	8.97	8.86	8.69	8.69	8.47	8.30
270.0	9.63	9.52	9.41	9.30	9.08	8.91	8.69	8.69	8.36
315.0	9.58	9.52	9.41	9.24	9.02	8.75	8.69	8.64	8.41
360.0	9.52	9.41	9.24	9.02	8.80	8.69	8.58	8.41	8.30

Intensity data(cd)

C/γ(°)	90.0
0.0	8.19
45.0	8.25
90.0	8.19
135.0	8.47
180.0	8.52
225.0	8.58
270.0	8.19
315.0	8.30
360.0	8.19