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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:
LumCAT: 1-1377-L
Luminaire: 92.70.410.00
Report No: 20231109-B020
Ballast type: AC

Test No: 20231109-C020	Voltage(V): 34.710
LampCAT: Fortimo_SLM_C_1204	Current(A): 0.320
Lamp flux(lm): 1771.7	Power (W): 11.107
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1642.11, Efficiency(%): 92.69% , Luminous Efficacy(lm/W): 147.84
Central intensity(cd): 7196.106, Maximum intensity(cd): 7196.106
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=21.0
[C90/270]Total=21.0
Field angle(10%Imax): [C0/180]Total=51.4
[C90/270]Total=51.4
Maximum s/h(1/2): C0_180=0.36 C90_270=0.36
Maximum s/h(1/4): C0_180=0.39 C90_270=0.39
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.69%
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	7196.106	0.000	0	0.00%	0.00%
1.0	7154.245	6.866	6.866	0.39%	0.42%
2.0	7039.732	20.373	27.239	1.15%	1.66%
3.0	6860.802	33.246	60.484	1.88%	3.68%
4.0	6585.625	45.009	105.494	2.54%	6.42%
5.0	6232.331	55.142	160.636	3.11%	9.78%
6.0	5820.985	63.343	223.979	3.58%	13.64%
7.0	5314.707	69.119	293.098	3.90%	17.85%
8.0	4817.493	72.514	365.613	4.09%	22.26%
9.0	4322.424	74.074	439.687	4.18%	26.78%
10.0	3847.629	73.936	513.623	4.17%	31.28%
11.0	3389.924	72.318	585.941	4.08%	35.68%
12.0	2986.050	69.699	655.639	3.93%	39.93%
13.0	2617.187	66.496	722.136	3.75%	43.98%
14.0	2330.179	63.326	785.461	3.57%	47.83%
15.0	2081.226	60.562	846.023	3.42%	51.52%
16.0	1870.121	57.898	903.922	3.27%	55.05%
17.0	1684.272	55.351	959.273	3.12%	58.42%
18.0	1525.960	52.930	1012.203	2.99%	61.64%
19.0	1359.727	50.205	1062.408	2.83%	64.70%
20.0	1244.979	47.673	1110.081	2.69%	67.60%
21.0	1135.946	45.719	1155.8	2.58%	70.39%
22.0	1053.462	43.997	1199.797	2.48%	73.06%
23.0	954.725	42.137	1241.934	2.38%	75.63%
24.0	865.184	39.790	1281.724	2.25%	78.05%
25.0	779.178	37.389	1319.113	2.11%	80.33%
26.0	694.439	34.785	1353.898	1.96%	82.45%
27.0	608.813	31.884	1385.782	1.80%	84.39%
28.0	530.308	28.840	1414.622	1.63%	86.15%
29.0	456.280	25.812	1440.434	1.46%	87.72%
30.0	387.337	22.777	1463.212	1.29%	89.11%
31.0	326.365	19.861	1483.073	1.12%	90.32%
32.0	281.826	17.424	1500.497	0.98%	91.38%
33.0	240.698	15.394	1515.891	0.87%	92.31%
34.0	199.107	13.310	1529.2	0.75%	93.12%
35.0	162.124	11.218	1540.419	0.63%	93.81%
36.0	126.898	9.203	1549.621	0.52%	94.37%
37.0	104.508	7.547	1557.169	0.43%	94.83%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	85.847	6.354	1563.522	0.36%	95.21%
39.0	71.192	5.360	1568.883	0.30%	95.54%
40.0	58.730	4.531	1573.414	0.26%	95.82%
41.0	49.652	3.859	1577.273	0.22%	96.05%
42.0	42.996	3.366	1580.639	0.19%	96.26%
43.0	37.135	2.968	1583.608	0.17%	96.44%
44.0	32.430	2.626	1586.233	0.15%	96.60%
45.0	28.915	2.358	1588.591	0.13%	96.74%
46.0	25.961	2.146	1590.737	0.12%	96.87%
47.0	23.629	1.972	1592.709	0.11%	96.99%
48.0	21.789	1.836	1594.545	0.10%	97.10%
49.0	20.280	1.728	1596.273	0.10%	97.21%
50.0	18.952	1.636	1597.908	0.09%	97.31%
51.0	17.865	1.558	1599.466	0.09%	97.40%
52.0	16.952	1.494	1600.96	0.08%	97.49%
53.0	16.219	1.443	1602.403	0.08%	97.58%
54.0	15.575	1.401	1603.804	0.08%	97.67%
55.0	15.029	1.366	1605.17	0.08%	97.75%
56.0	14.558	1.337	1606.507	0.08%	97.83%
57.0	14.150	1.313	1607.82	0.07%	97.91%
58.0	13.818	1.293	1609.113	0.07%	97.99%
59.0	13.527	1.278	1610.392	0.07%	98.07%
60.0	13.292	1.267	1611.659	0.07%	98.15%
61.0	13.091	1.259	1612.918	0.07%	98.22%
62.0	12.911	1.253	1614.171	0.07%	98.30%
63.0	12.717	1.246	1615.417	0.07%	98.37%
64.0	12.496	1.237	1616.654	0.07%	98.45%
65.0	12.295	1.227	1617.881	0.07%	98.52%
66.0	12.026	1.213	1619.095	0.07%	98.60%
67.0	11.680	1.192	1620.287	0.07%	98.67%
68.0	11.361	1.167	1621.454	0.07%	98.74%
69.0	11.029	1.142	1622.596	0.06%	98.81%
70.0	10.718	1.117	1623.713	0.06%	98.88%
71.0	10.406	1.092	1624.805	0.06%	98.95%
72.0	10.130	1.068	1625.873	0.06%	99.01%
73.0	9.867	1.046	1626.918	0.06%	99.08%
74.0	9.618	1.024	1627.943	0.06%	99.14%
75.0	9.424	1.006	1628.949	0.06%	99.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.203	0.989	1629.938	0.06%	99.26%
77.0	9.002	0.971	1630.908	0.05%	99.32%
78.0	8.822	0.954	1631.862	0.05%	99.38%
79.0	8.614	0.937	1632.799	0.05%	99.43%
80.0	8.435	0.919	1633.718	0.05%	99.49%
81.0	8.282	0.904	1634.622	0.05%	99.54%
82.0	8.116	0.889	1635.512	0.05%	99.60%
83.0	7.971	0.875	1636.386	0.05%	99.65%
84.0	7.812	0.860	1637.246	0.05%	99.70%
85.0	7.653	0.844	1638.09	0.05%	99.76%
86.0	7.514	0.829	1638.919	0.05%	99.81%
87.0	7.390	0.816	1639.735	0.05%	99.86%
88.0	7.258	0.802	1640.537	0.05%	99.90%
89.0	7.148	0.790	1641.327	0.04%	99.95%
90.0	7.071	0.780	1642.106	0.04%	100.00%

Zonal flux distribution table

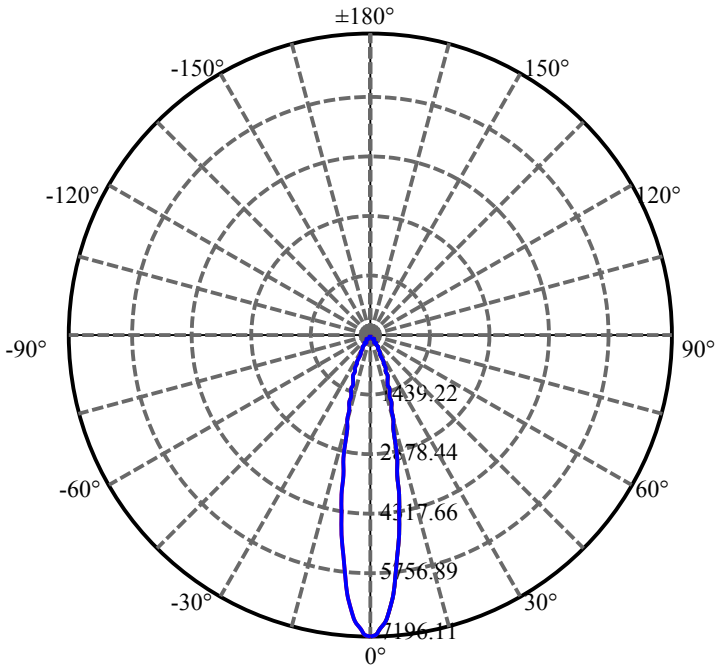
ZONAL LUMEN SUMMARY

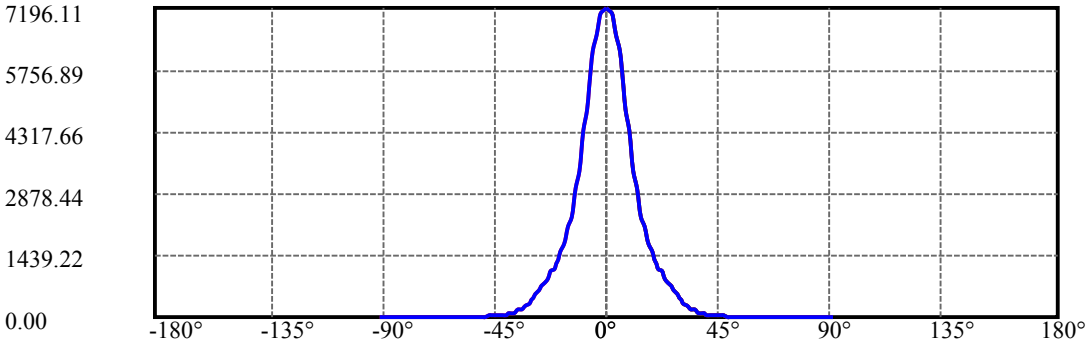
Zone	Lumens	%Lamp	%Fixt
0-30	1463.21	82.59%	89.11%
0-40	1573.41	88.81%	95.82%
0-60	1611.66	90.97%	98.15%
0-90	1641.33	92.64%	99.95%
0-120	1641.33	92.64%	99.95%
0-180	1642.11	92.69%	100.00%
60-90	29.67	1.67%	1.81%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.85	1313.69	74.15%	80.00%

ZONAL LUMEN SUMMARY

0-10	513.62
10-20	596.46
20-30	353.13
30-40	110.20
40-50	24.49
50-60	13.75
60-70	12.05
70-80	10.01
80-90	7.61
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):

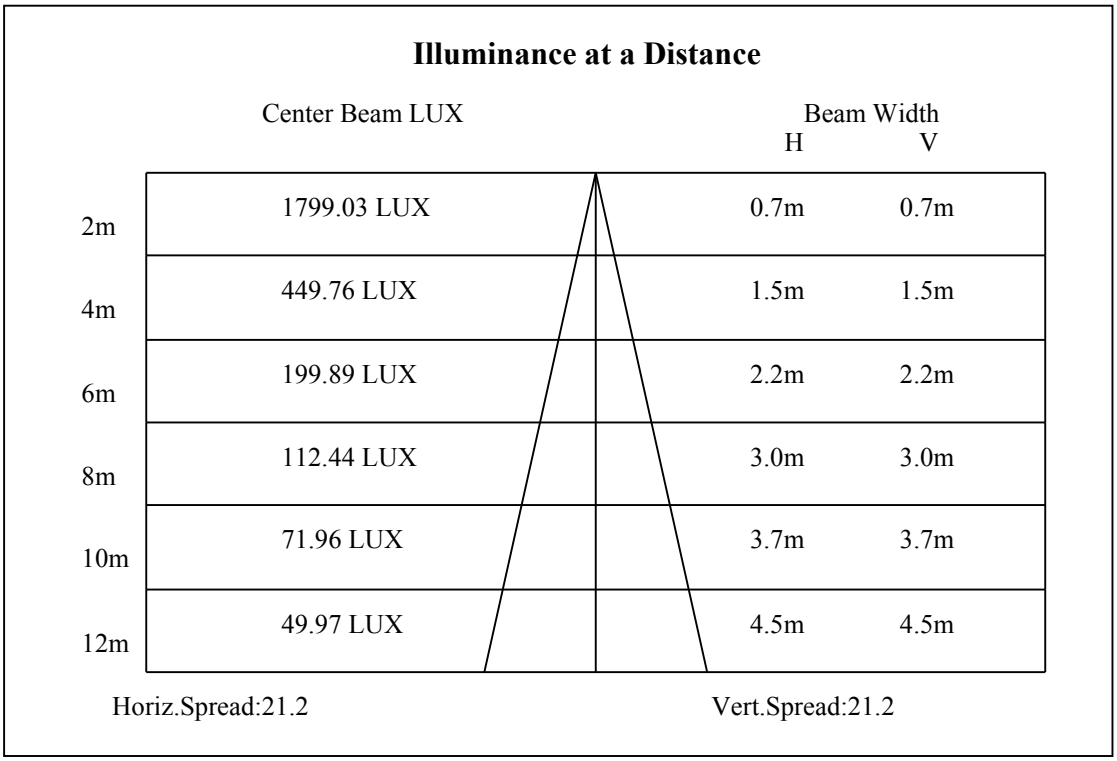
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:25.7 Right:25.7
:C90/270Left:25.7 Right:25.7

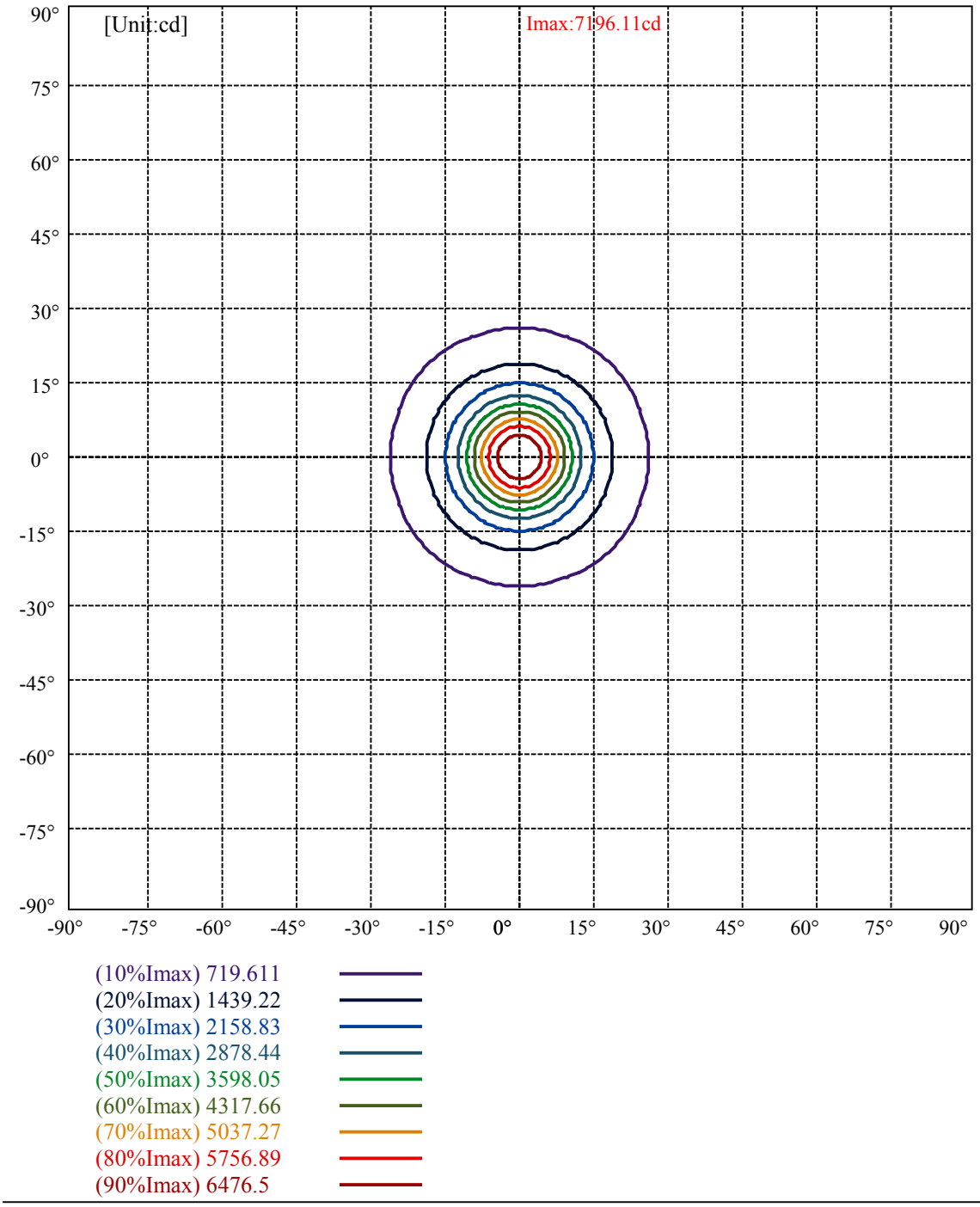
Beam Angle(50%Imax):C0/180Left:10.5 Right:10.5
:C90/270Left:10.5 Right:10.5

Lux distance Curve



Equipment: GMS1980 Date: 2023/11/09 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

ISO-Intensity(V-H)

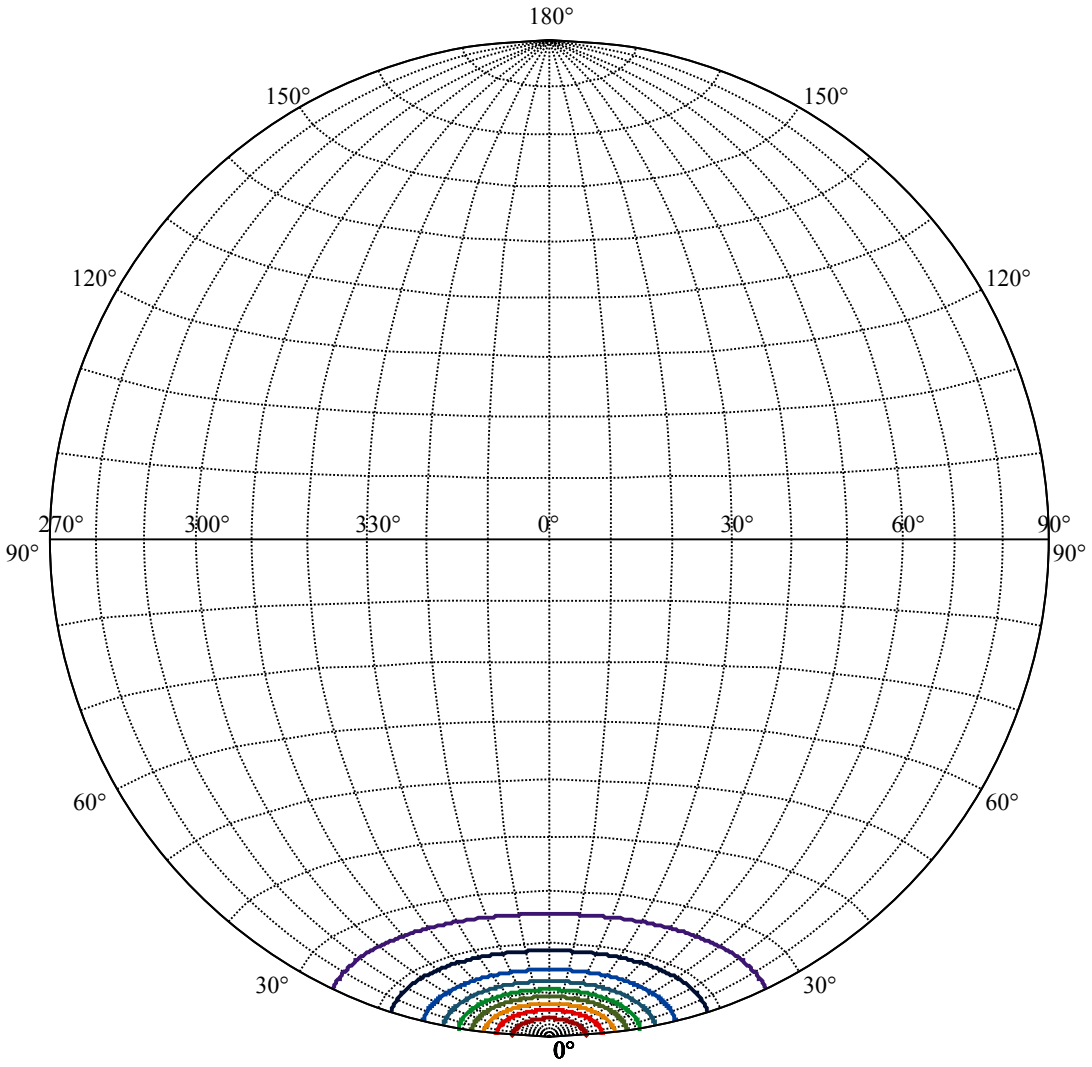


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/09
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

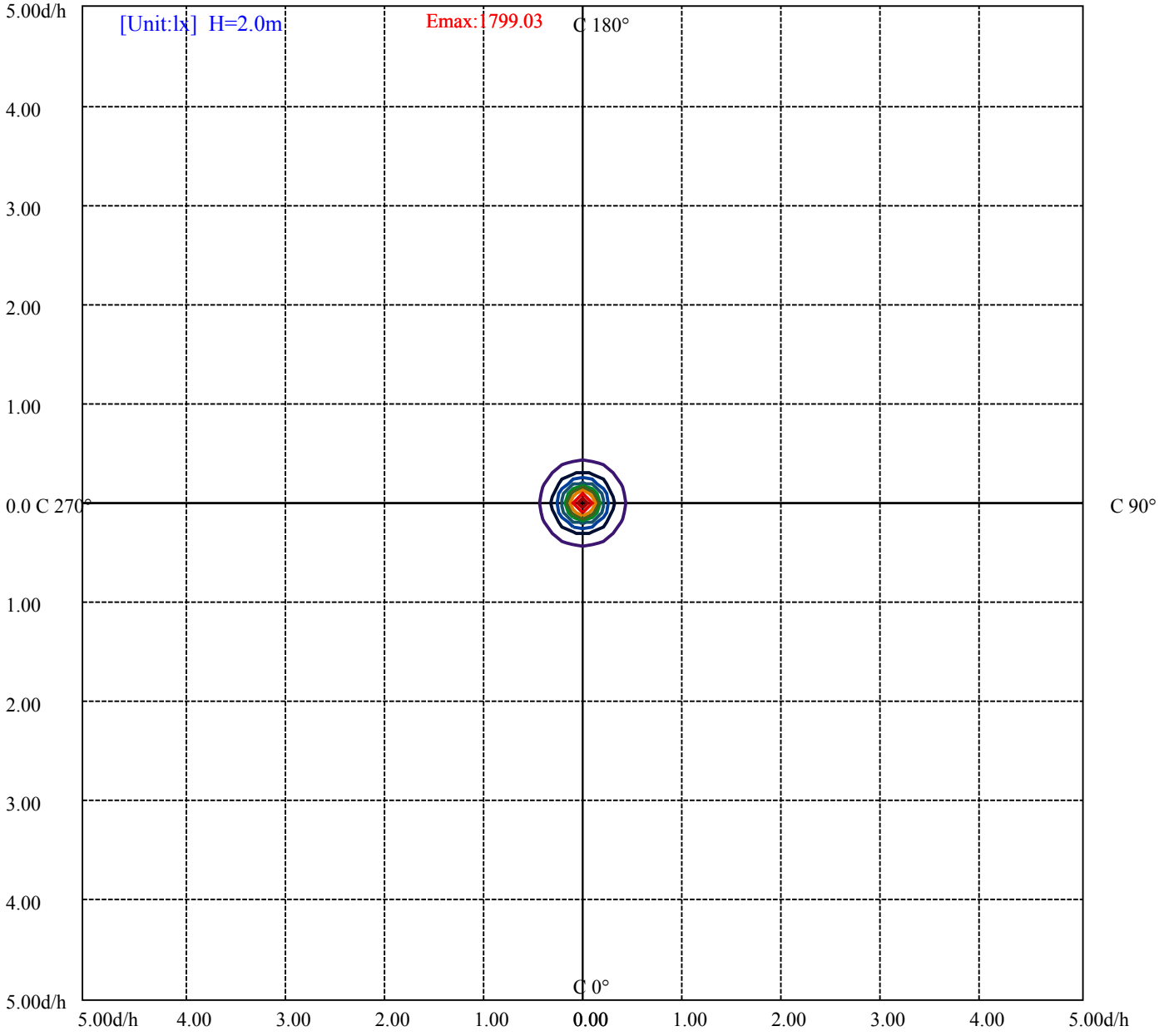
Imax:7196.11

(10%Imax) 719.611
(20%Imax) 1439.22
(30%Imax) 2158.83
(40%Imax) 2878.44
(50%Imax) 3598.05
(60%Imax) 4317.66
(70%Imax) 5037.27
(80%Imax) 5756.89
(90%Imax) 6476.5

Equipment: GMS1980 Date: 2023/11/09 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

NT 1-1377-L

ISO illuminance diagram



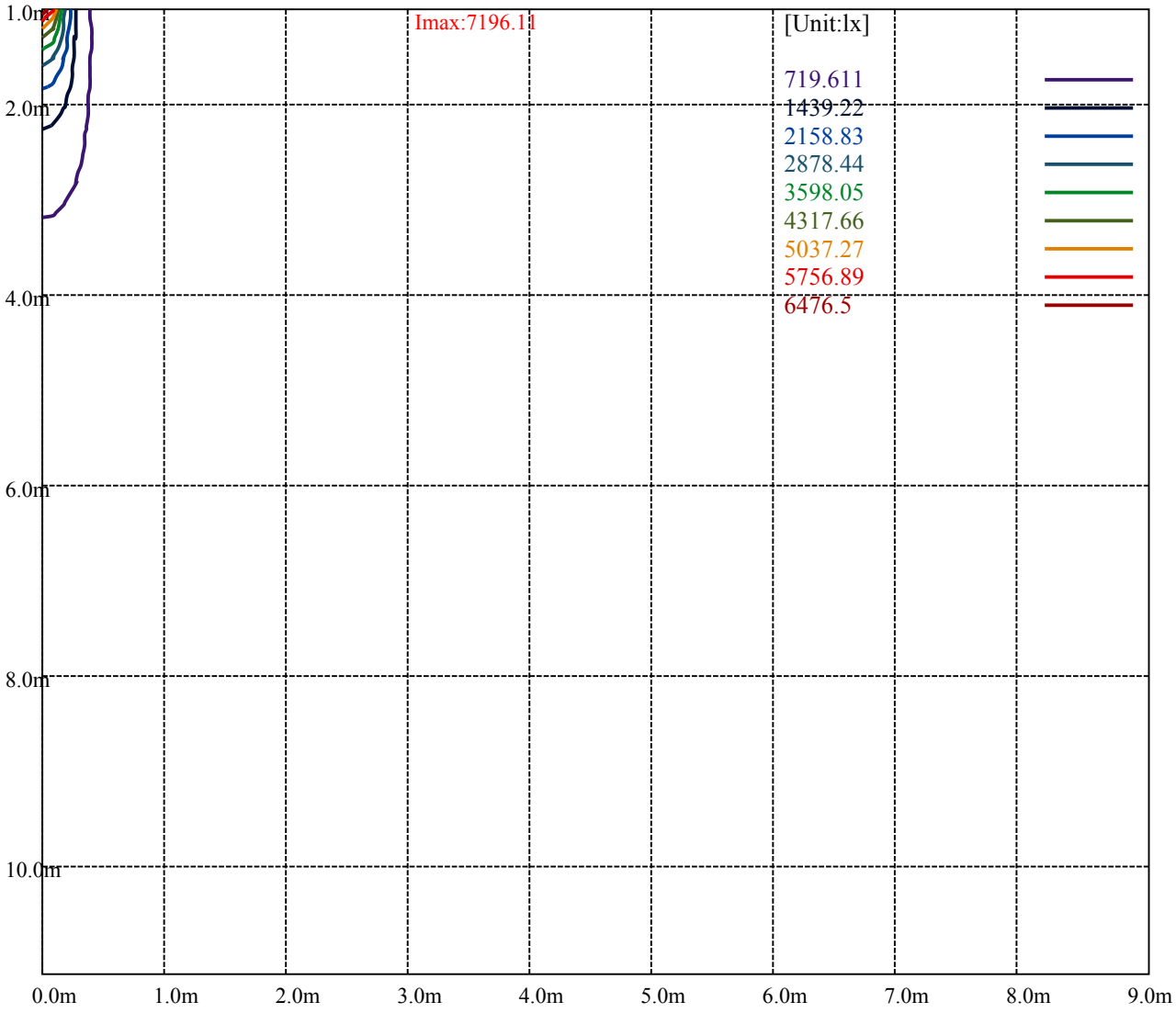
(10%Emax) 179.9025
(20%Emax) 359.805
(30%Emax) 539.7075
(40%Emax) 719.61
(50%Emax) 899.5125
(60%Emax) 1079.415
(70%Emax) 1259.318
(80%Emax) 1439.22
(90%Emax) 1619.123

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/09
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/09
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 1-1377-L

Luminance Limitting Curve(no luminous side)

Luminance Table

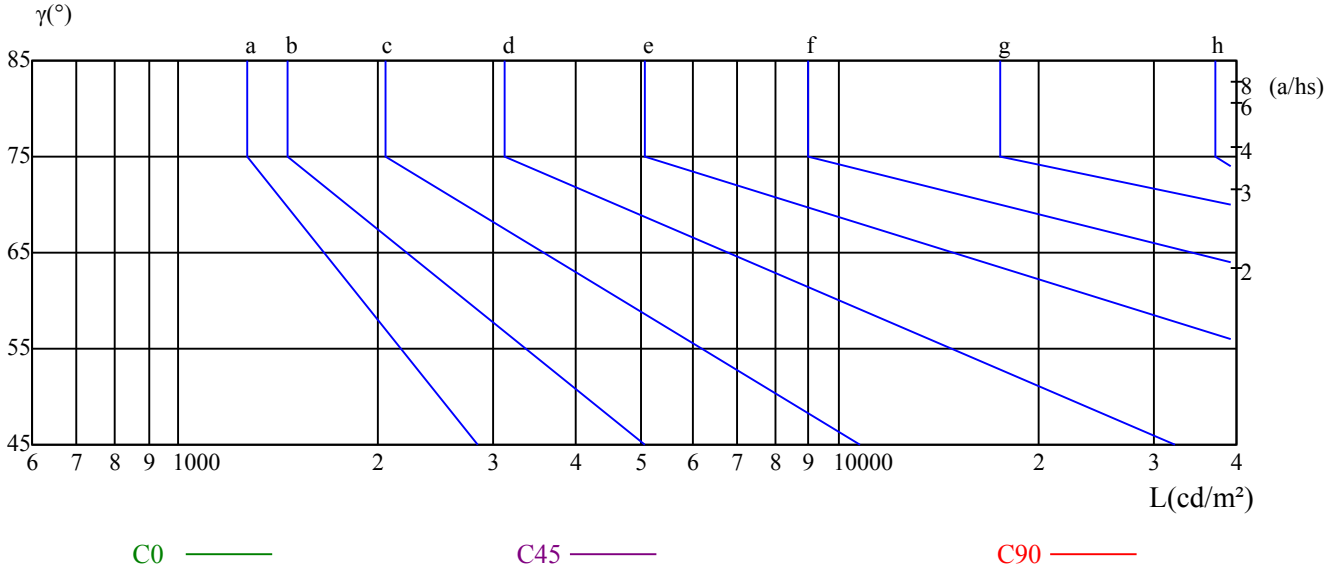
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

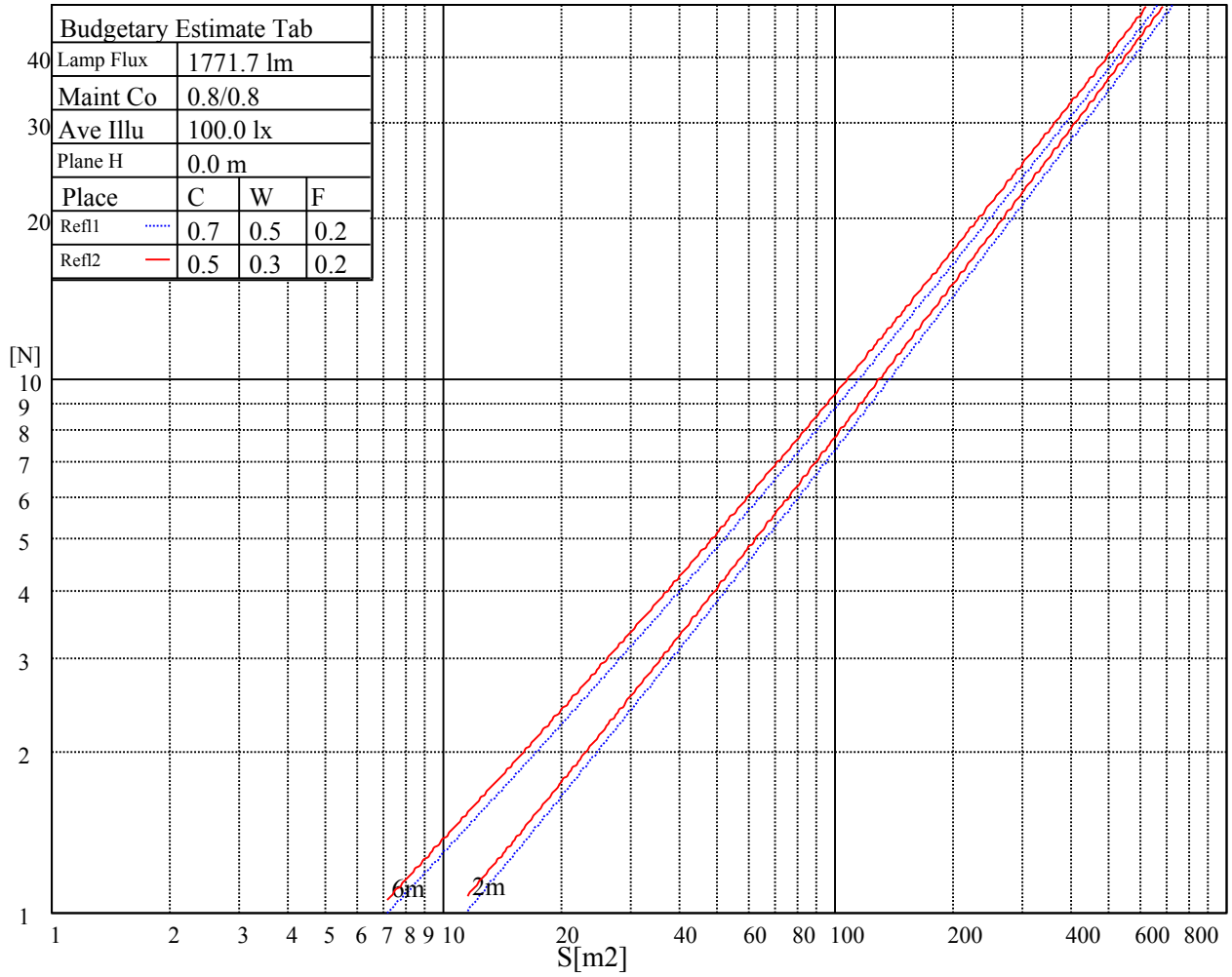
Luminance Limitting Curve



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

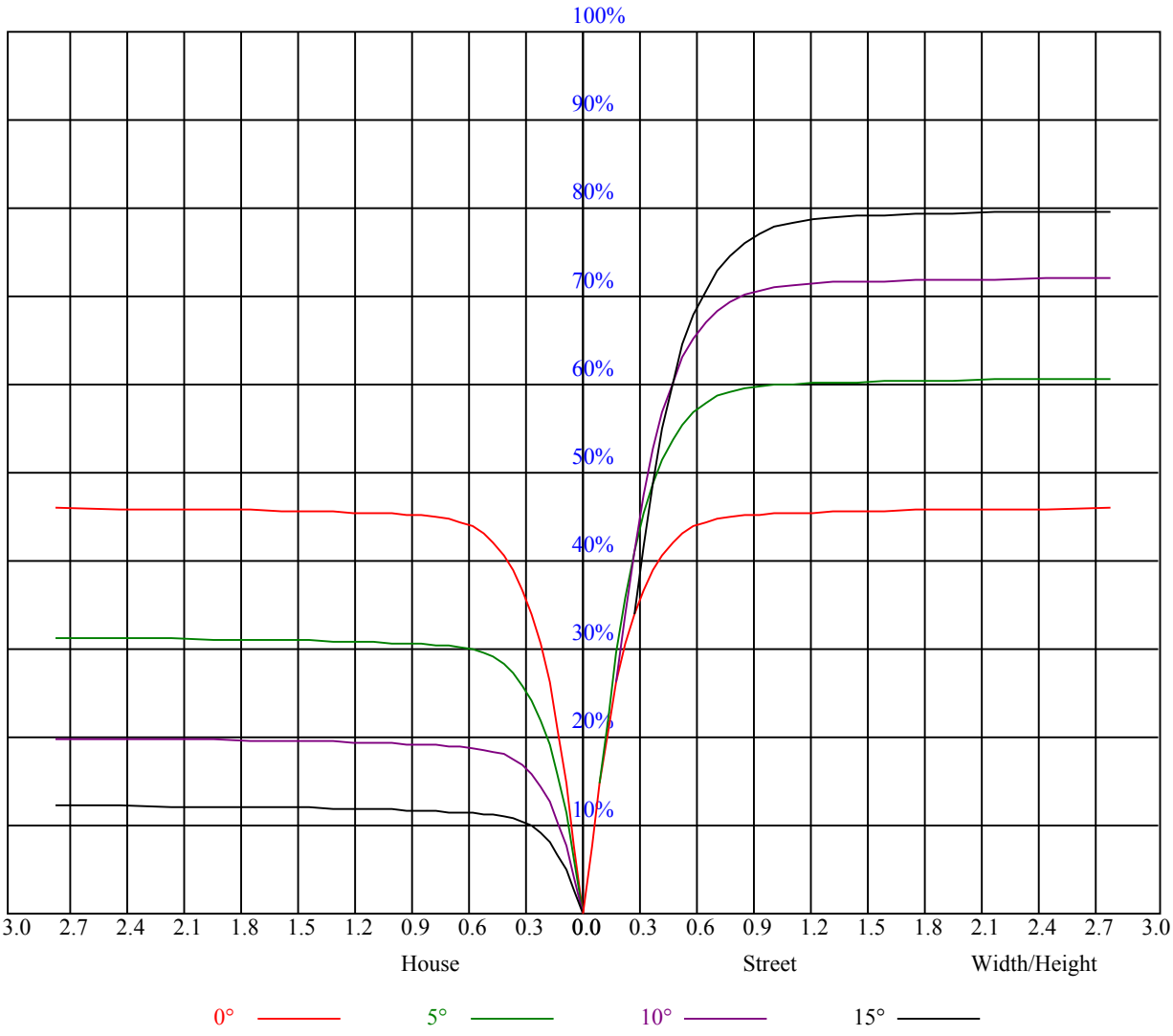


Equipment: GMS1980 Date: 2023/11/09 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.08	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	1.04	1.02	1.00	1.02	1.00	0.98	0.98	0.97	0.95	0.95	0.94	0.92	0.91	0.91	0.90	0.88
2	0.98	0.95	0.92	0.97	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.86	0.84
3	0.93	0.90	0.87	0.92	0.89	0.86	0.90	0.87	0.85	0.88	0.85	0.83	0.86	0.84	0.82	0.81
4	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.82	0.80	0.83	0.81	0.79	0.77
5	0.85	0.81	0.78	0.84	0.80	0.78	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.78	0.76	0.74
6	0.82	0.78	0.74	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
7	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.69
8	0.76	0.72	0.69	0.76	0.71	0.69	0.75	0.71	0.68	0.74	0.71	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	0.72	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: 2023/11/09	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	7172.72	7012.75	6810.71	6525.64	6172.48	5646.07	5184.42	4696.75	4091.74
45.0	7218.66	7179.36	7027.69	6852.22	6577.67	6119.34	5694.22	5119.65	4630.33
90.0	7179.36	7052.05	6844.47	6588.74	6121.55	5703.08	5241.43	4638.08	4159.82
135.0	7213.68	7182.13	7083.05	6915.88	6610.33	6266.58	5879.11	5326.68	4853.96
180.0	7172.72	7229.18	7223.64	7142.28	6966.80	6748.71	6453.68	5994.24	5565.80
225.0	7218.66	7200.40	7065.33	6902.59	6676.75	6372.31	5891.28	5459.53	4989.02
270.0	7179.36	7218.11	7200.40	7076.40	6918.09	6685.05	6378.95	5886.30	5457.31
315.0	7213.68	7159.99	7062.57	6882.67	6641.32	6317.51	5844.79	5396.42	4791.96
360.0	7172.72	7012.75	6810.71	6525.64	6172.48	5646.07	5184.42	4696.75	4091.74

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3641.71	3130.25	2771.00	2456.59	2140.52	1937.93	1756.92	1598.06	1463.55
45.0	4149.86	3702.05	3276.93	2811.96	2496.45	2230.20	1998.82	1769.10	1611.90
90.0	3707.03	3291.88	2828.57	2509.18	2246.80	2030.92	1789.58	1629.61	1461.89
135.0	4266.66	3819.40	3410.89	2938.72	2616.56	2342.01	2109.53	1856.56	1682.75
180.0	4990.13	4526.82	4060.19	3605.18	3099.25	2754.40	2454.93	2213.59	1946.79
225.0	4513.53	3932.32	3500.56	3109.77	2683.54	2400.13	2096.24	1898.07	1730.91
270.0	4990.13	4522.39	3940.62	3507.20	3107.55	2673.58	2394.04	2143.84	1890.88
315.0	4320.35	3855.93	3330.63	2949.79	2546.82	2272.27	2049.74	1852.13	1685.52
360.0	3641.71	3130.25	2771.00	2456.59	2140.52	1937.93	1756.92	1598.06	1463.55

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1315.20	1082.55	1082.55	1010.37	897.12	814.47	736.92	640.28	564.00
45.0	1474.07	1326.27	1224.42	1103.75	1009.10	919.98	815.91	736.20	654.83
90.0	1342.32	1084.27	1084.27	1012.14	919.81	814.31	733.71	656.27	578.67
135.0	1536.06	1408.20	1290.29	1158.00	1061.13	946.55	857.43	772.18	669.78
180.0	1763.57	1607.47	1472.41	1327.38	1218.33	1092.13	1001.90	917.76	813.14
225.0	1542.70	1412.62	1301.36	1083.77	1083.77	998.25	911.95	833.57	758.40
270.0	1721.50	1570.94	1408.75	1296.38	1188.44	1091.57	985.85	901.16	819.23
315.0	1512.26	1385.50	1095.78	1095.78	1050.00	960.55	877.80	776.00	697.46
360.0	1315.20	1082.55	1082.55	1010.37	897.12	814.47	736.92	640.28	564.00

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	473.44	407.18	348.73	284.46	240.35	202.54	169.66	134.62	111.65
45.0	576.78	483.79	416.26	356.48	301.12	288.39	233.20	169.38	141.26
90.0	486.50	418.81	357.25	304.39	246.27	207.30	173.42	137.50	113.81
135.0	588.41	513.13	427.88	367.55	313.30	289.50	289.50	178.79	149.23
180.0	734.54	657.60	562.39	489.88	419.58	356.48	302.23	290.05	233.92
225.0	663.47	586.86	509.70	422.07	359.80	289.94	244.72	205.69	164.12
270.0	748.93	650.40	573.46	500.40	414.04	352.60	286.73	286.73	231.16
315.0	598.43	524.70	454.56	373.47	316.46	267.86	226.12	190.08	151.83
360.0	473.44	407.18	348.73	284.46	240.35	202.54	169.66	134.62	111.65

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	93.05	77.66	62.38	53.08	45.61	38.64	34.15	30.61	26.90
45.0	112.15	92.88	73.95	62.05	52.53	43.40	38.19	33.99	30.33
90.0	94.82	75.39	63.05	53.36	44.12	38.42	33.88	30.28	26.63
135.0	124.55	98.86	82.75	69.41	56.41	48.71	42.46	36.15	32.11
180.0	169.33	140.87	112.31	93.99	75.39	63.82	54.58	45.39	39.74
225.0	136.56	113.53	94.49	75.28	62.99	53.47	45.78	38.36	33.93
270.0	158.20	131.02	108.94	90.61	72.02	60.39	51.09	43.73	36.64
315.0	126.54	105.84	88.90	71.74	60.78	50.37	43.84	38.58	33.16
360.0	93.05	77.66	62.38	53.08	45.61	38.64	34.15	30.61	26.90

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	24.52	22.20	20.65	19.43	18.32	17.44	16.50	15.83	15.33
45.0	26.68	24.36	22.42	20.87	19.21	18.16	17.27	16.33	15.67
90.0	24.24	22.31	20.76	19.15	18.10	17.21	16.33	15.72	15.11
135.0	28.12	25.52	23.41	21.70	20.26	18.82	17.82	17.05	16.33
180.0	35.26	30.78	27.84	25.41	23.41	21.37	19.98	18.76	17.82
225.0	30.28	26.46	24.08	21.81	20.31	19.10	17.99	16.88	16.16
270.0	32.44	29.06	25.68	23.53	21.70	19.87	18.76	17.71	16.77
315.0	29.78	27.01	24.19	22.42	20.92	19.65	18.27	17.33	16.55
360.0	24.52	22.20	20.65	19.43	18.32	17.44	16.50	15.83	15.33

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	14.83	14.34	14.00	13.73	13.45	13.23	13.01	12.84	12.68
45.0	15.11	14.61	14.17	13.78	13.51	13.28	13.06	12.84	12.73
90.0	14.61	14.28	13.95	13.62	13.40	13.17	13.01	12.84	12.68
135.0	15.61	15.06	14.56	14.17	13.84	13.51	13.28	13.06	12.90
180.0	16.83	16.16	15.50	14.89	14.50	14.06	13.78	13.56	13.34
225.0	15.55	15.00	14.45	14.06	13.73	13.45	13.17	13.01	12.79
270.0	16.11	15.55	15.06	14.56	14.17	13.89	13.62	13.34	13.17
315.0	15.94	15.22	14.78	14.39	13.95	13.62	13.40	13.23	13.01
360.0	14.83	14.34	14.00	13.73	13.45	13.23	13.01	12.84	12.68

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	12.34	12.12	11.90	11.57	11.13	10.85	10.52	10.30	10.02
45.0	12.57	12.34	12.12	11.85	11.57	11.13	10.85	10.57	10.24
90.0	12.51	12.23	12.01	11.68	11.24	10.96	10.63	10.30	10.02
135.0	12.73	12.51	12.29	12.07	11.73	11.40	11.07	10.68	10.41
180.0	13.12	12.90	12.79	12.57	12.23	11.96	11.62	11.29	10.90
225.0	12.68	12.45	12.23	12.01	11.73	11.35	11.02	10.74	10.46
270.0	13.01	12.79	12.62	12.34	12.07	11.85	11.46	11.07	10.74
315.0	12.79	12.62	12.40	12.12	11.73	11.40	11.07	10.79	10.46
360.0	12.34	12.12	11.90	11.57	11.13	10.85	10.52	10.30	10.02

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.74	9.52	9.30	9.13	8.91	8.69	8.52	8.36	8.19
45.0	9.96	9.74	9.47	9.30	9.08	8.91	8.69	8.47	8.30
90.0	9.80	9.52	9.35	9.19	8.97	8.75	8.58	8.41	8.25
135.0	10.13	9.85	9.63	9.41	9.19	9.02	8.86	8.64	8.47
180.0	10.63	10.30	10.02	9.80	9.58	9.35	9.19	8.91	8.75
225.0	10.19	9.91	9.69	9.41	9.19	9.02	8.80	8.64	8.41
270.0	10.46	10.19	9.85	9.69	9.47	9.24	9.08	8.86	8.64
315.0	10.13	9.91	9.63	9.47	9.24	9.02	8.86	8.64	8.47
360.0	9.74	9.52	9.30	9.13	8.91	8.69	8.52	8.36	8.19

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.08	7.92	7.80	7.64	7.53	7.42	7.31	7.09	7.14
45.0	8.19	7.97	7.86	7.69	7.53	7.42	7.31	7.25	6.97
90.0	8.08	7.92	7.75	7.58	7.47	7.31	7.25	7.03	7.03
135.0	8.30	8.14	7.97	7.80	7.64	7.53	7.42	7.31	7.09
180.0	8.58	8.41	8.25	8.14	7.92	7.75	7.58	7.47	7.36
225.0	8.25	8.14	7.97	7.80	7.64	7.53	7.36	7.25	7.20
270.0	8.47	8.30	8.14	7.97	7.80	7.64	7.47	7.36	7.25
315.0	8.30	8.14	8.03	7.86	7.69	7.53	7.42	7.31	7.14
360.0	8.08	7.92	7.80	7.64	7.53	7.42	7.31	7.09	7.14

Intensity data(cd)

C/γ(°)	90.0
0.0	7.14
45.0	7.03
90.0	7.03
135.0	7.09
180.0	7.14
225.0	7.03
270.0	7.03
315.0	7.09
360.0	7.14