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: 1-1378-L
Luminaire: 92.70.410.00
Report No: 20231122-B006
Ballast type: AC
Test No: 20231122-C006
LampCAT: LUXEON CoB 1203 LES9
Lamp flux(lm): 1490.3
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 35.910
Current(A): 0.379
Power (W): 13.609
PF: 0.000
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 1347.01, Efficiency(%): 90.38% , Luminous Efficacy(lm/W): 98.98
Central intensity(cd): 4765.114, Maximum intensity(cd): 4765.114
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=26.0
[C90/270]Total=26.0
Field angle(10%Imax): [C0/180]Total=54.2
[C90/270]Total=54.2
Maximum s/h(1/2): C0_180=0.44 C90_270=0.44
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(%): 90.38%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.017%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4765.115	0.000	0	0.00%	0.00%
1.0	4740.759	4.548	4.548	0.31%	0.34%
2.0	4669.976	13.507	18.056	0.91%	1.34%
3.0	4556.985	22.068	40.123	1.48%	2.98%
4.0	4424.898	30.065	70.189	2.02%	5.21%
5.0	4250.049	37.319	107.508	2.50%	7.98%
6.0	4057.004	43.656	151.164	2.93%	11.22%
7.0	3838.565	49.008	200.171	3.29%	14.86%
8.0	3607.740	53.292	253.463	3.58%	18.82%
9.0	3373.733	56.581	310.044	3.80%	23.02%
10.0	3117.238	58.741	368.785	3.94%	27.38%
11.0	2886.137	59.986	428.771	4.03%	31.83%
12.0	2625.144	60.246	489.017	4.04%	36.30%
13.0	2385.671	59.466	548.483	3.99%	40.72%
14.0	2152.148	58.084	606.567	3.90%	45.03%
15.0	1939.936	56.178	662.745	3.77%	49.20%
16.0	1740.317	53.926	716.671	3.62%	53.20%
17.0	1516.239	50.713	767.384	3.40%	56.97%
18.0	1391.486	47.942	815.326	3.22%	60.53%
19.0	1230.663	45.620	860.946	3.06%	63.92%
20.0	1097.330	42.609	903.555	2.86%	67.08%
21.0	998.205	40.239	943.793	2.70%	70.07%
22.0	890.826	37.961	981.754	2.55%	72.88%
23.0	799.036	35.458	1017.212	2.38%	75.52%
24.0	706.208	32.910	1050.122	2.21%	77.96%
25.0	627.765	30.332	1080.454	2.04%	80.21%
26.0	551.979	27.848	1108.302	1.87%	82.28%
27.0	481.383	25.281	1133.583	1.70%	84.16%
28.0	419.068	22.798	1156.381	1.53%	85.85%
29.0	356.076	20.280	1176.661	1.36%	87.35%
30.0	309.904	17.981	1194.642	1.21%	88.69%
31.0	262.687	15.934	1210.576	1.07%	89.87%
32.0	216.350	13.724	1224.3	0.92%	90.89%
33.0	189.185	11.947	1236.247	0.80%	91.78%
34.0	149.939	10.263	1246.51	0.69%	92.54%
35.0	121.612	8.433	1254.944	0.57%	93.16%
36.0	101.117	7.092	1262.035	0.48%	93.69%
37.0	83.473	6.020	1268.056	0.40%	94.14%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	70.527	5.140	1273.196	0.34%	94.52%
39.0	59.733	4.446	1277.642	0.30%	94.85%
40.0	51.721	3.887	1281.529	0.26%	95.14%
41.0	44.864	3.439	1284.969	0.23%	95.39%
42.0	40.000	3.083	1288.052	0.21%	95.62%
43.0	36.001	2.815	1290.867	0.19%	95.83%
44.0	32.908	2.601	1293.468	0.17%	96.02%
45.0	30.133	2.423	1295.891	0.16%	96.20%
46.0	27.822	2.267	1298.157	0.15%	96.37%
47.0	25.781	2.132	1300.289	0.14%	96.53%
48.0	23.850	2.006	1302.295	0.13%	96.68%
49.0	22.224	1.892	1304.188	0.13%	96.82%
50.0	20.751	1.792	1305.979	0.12%	96.95%
51.0	19.450	1.701	1307.68	0.11%	97.08%
52.0	18.315	1.621	1309.301	0.11%	97.20%
53.0	17.305	1.549	1310.85	0.10%	97.32%
54.0	16.454	1.488	1312.338	0.10%	97.43%
55.0	15.603	1.431	1313.769	0.10%	97.53%
56.0	14.952	1.381	1315.15	0.09%	97.63%
57.0	14.357	1.340	1316.49	0.09%	97.73%
58.0	13.825	1.303	1317.793	0.09%	97.83%
59.0	13.326	1.269	1319.062	0.09%	97.92%
60.0	12.904	1.239	1320.302	0.08%	98.02%
61.0	12.524	1.213	1321.515	0.08%	98.11%
62.0	12.095	1.186	1322.701	0.08%	98.20%
63.0	11.756	1.160	1323.861	0.08%	98.28%
64.0	11.375	1.135	1324.996	0.08%	98.37%
65.0	11.050	1.110	1326.106	0.07%	98.45%
66.0	10.711	1.086	1327.192	0.07%	98.53%
67.0	10.406	1.062	1328.254	0.07%	98.61%
68.0	10.102	1.039	1329.293	0.07%	98.68%
69.0	9.805	1.016	1330.308	0.07%	98.76%
70.0	9.542	0.994	1331.302	0.07%	98.83%
71.0	9.244	0.971	1332.273	0.07%	98.91%
72.0	8.974	0.947	1333.22	0.06%	98.98%
73.0	8.704	0.924	1334.144	0.06%	99.04%
74.0	8.455	0.902	1335.047	0.06%	99.11%
75.0	8.206	0.880	1335.927	0.06%	99.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.971	0.859	1336.786	0.06%	99.24%
77.0	7.756	0.839	1337.624	0.06%	99.30%
78.0	7.542	0.819	1338.443	0.05%	99.36%
79.0	7.362	0.801	1339.244	0.05%	99.42%
80.0	7.161	0.783	1340.027	0.05%	99.48%
81.0	7.009	0.766	1340.793	0.05%	99.54%
82.0	6.850	0.752	1341.545	0.05%	99.59%
83.0	6.684	0.736	1342.28	0.05%	99.65%
84.0	6.532	0.720	1343	0.05%	99.70%
85.0	6.366	0.704	1343.704	0.05%	99.75%
86.0	6.220	0.688	1344.392	0.05%	99.81%
87.0	6.096	0.674	1345.066	0.05%	99.86%
88.0	5.957	0.660	1345.727	0.04%	99.90%
89.0	5.861	0.648	1346.374	0.04%	99.95%
90.0	5.805	0.640	1347.014	0.04%	100.00%

Zonal flux distribution table

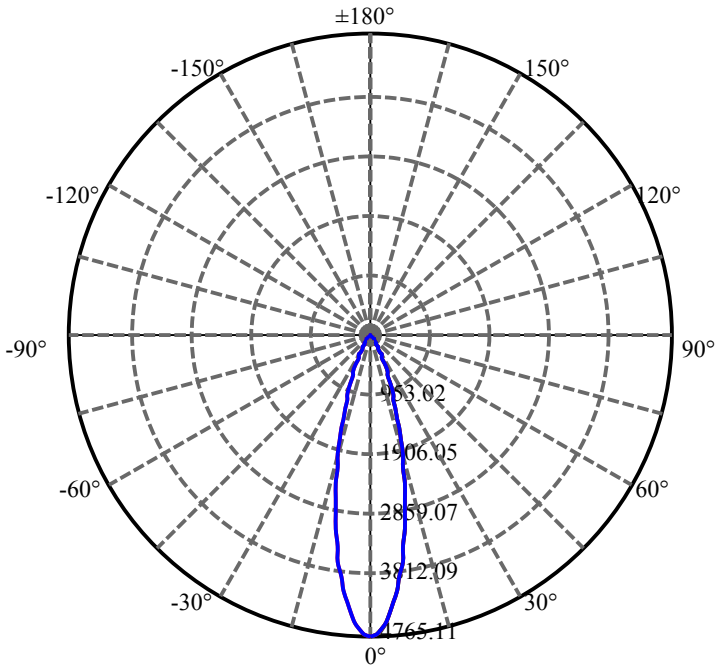
ZONAL LUMEN SUMMARY

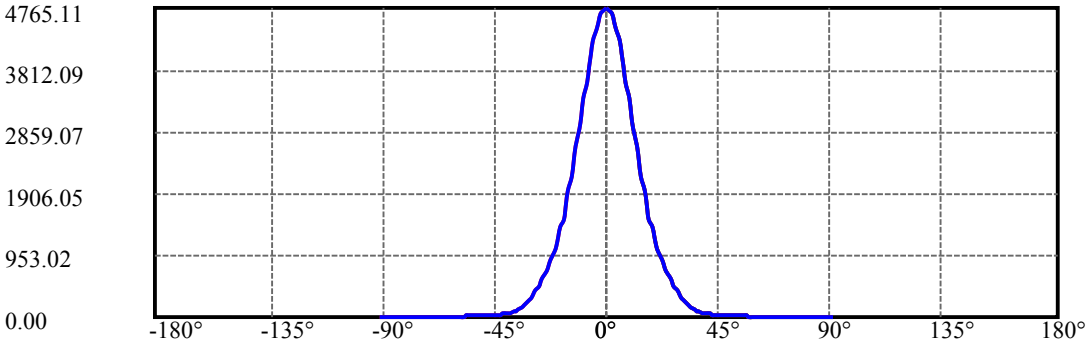
Zone	Lumens	%Lamp	%Fixt
0-30	1194.64	80.16%	88.69%
0-40	1281.53	85.99%	95.14%
0-60	1320.30	88.59%	98.02%
0-90	1346.37	90.34%	99.95%
0-120	1346.37	90.34%	99.95%
0-180	1347.01	90.38%	100.00%
60-90	26.07	1.75%	1.94%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.91	1077.61	72.31%	80.00%

ZONAL LUMEN SUMMARY

0-10	368.78
10-20	534.77
20-30	291.09
30-40	86.89
40-50	24.45
50-60	14.32
60-70	11.00
70-80	8.73
80-90	6.35
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):

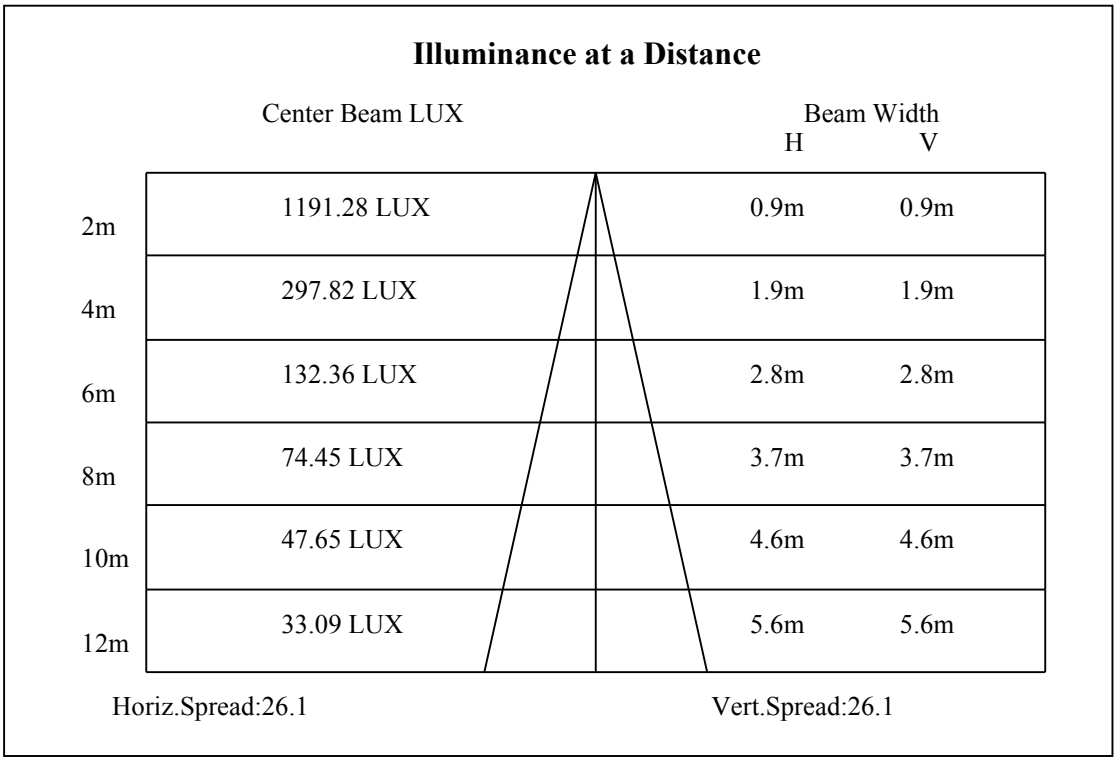
C0/C180:

C90/C270:

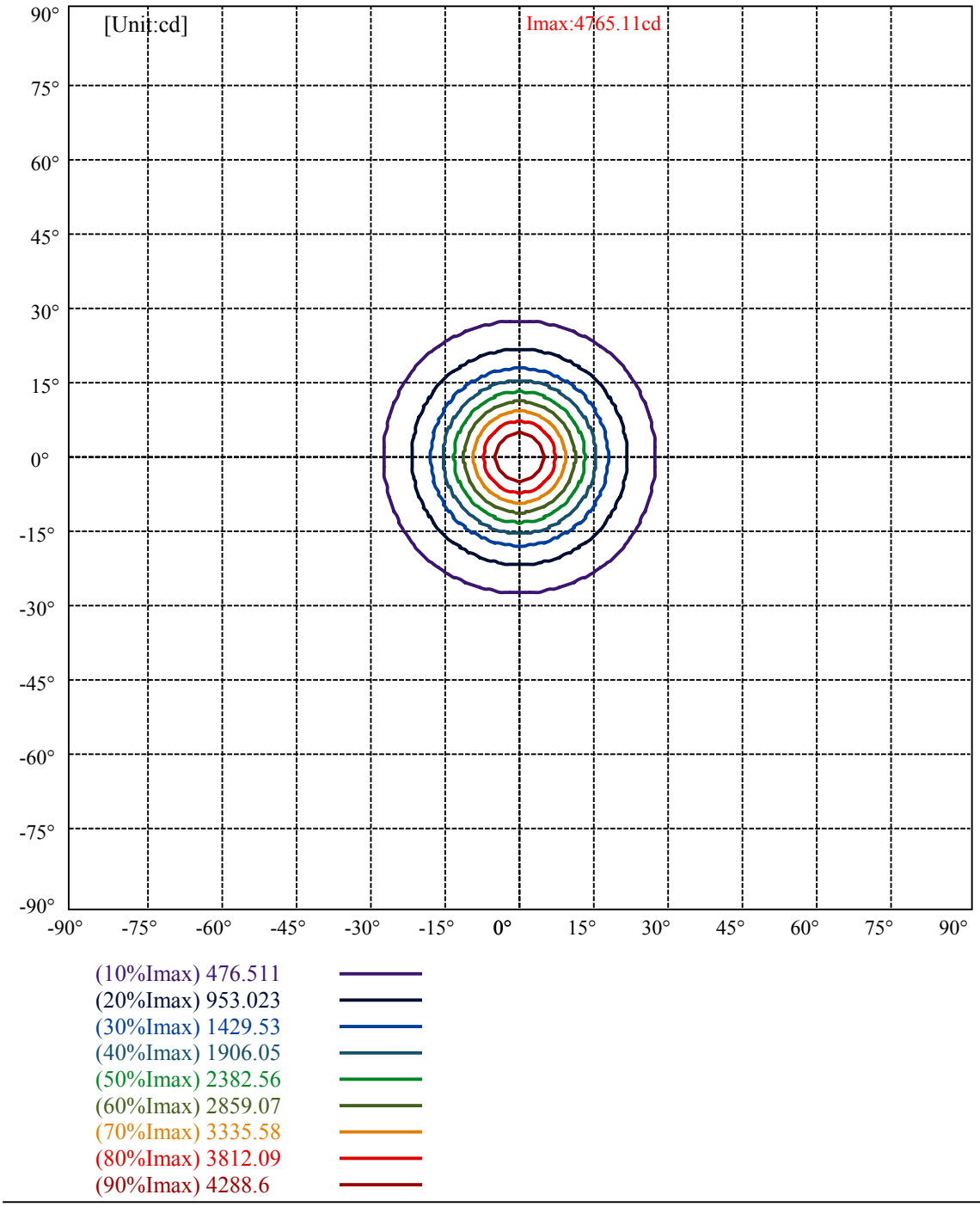
Field angle(10%Imax):C0/180Left:27.1 Right:27.1
:C90/270Left:27.1 Right:27.1

Beam Angle(50%Imax):C0/180Left:13.0 Right:13.0
:C90/270Left:13.0 Right:13.0

Lux distance Curve



ISO-Intensity(V-H)

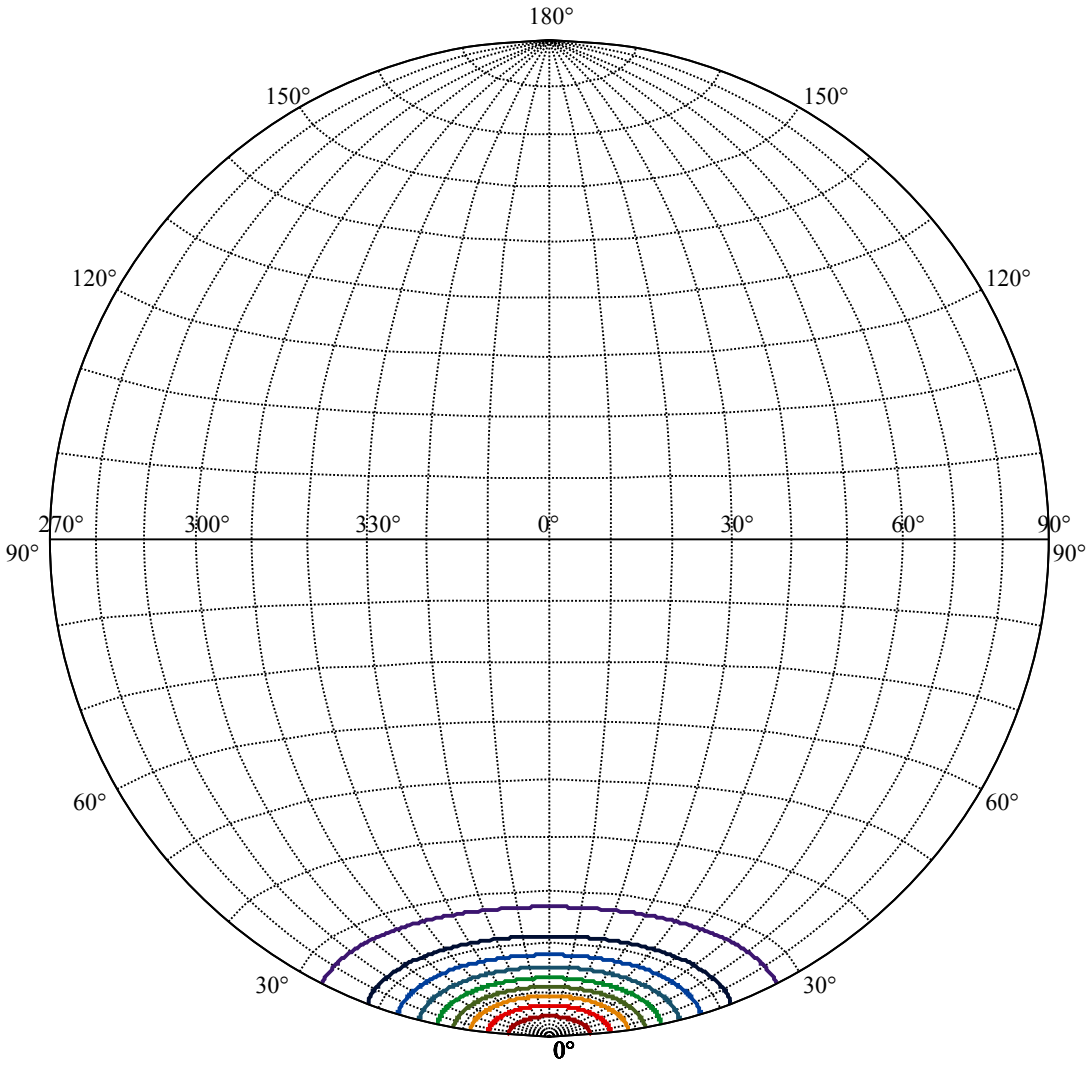


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/22
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



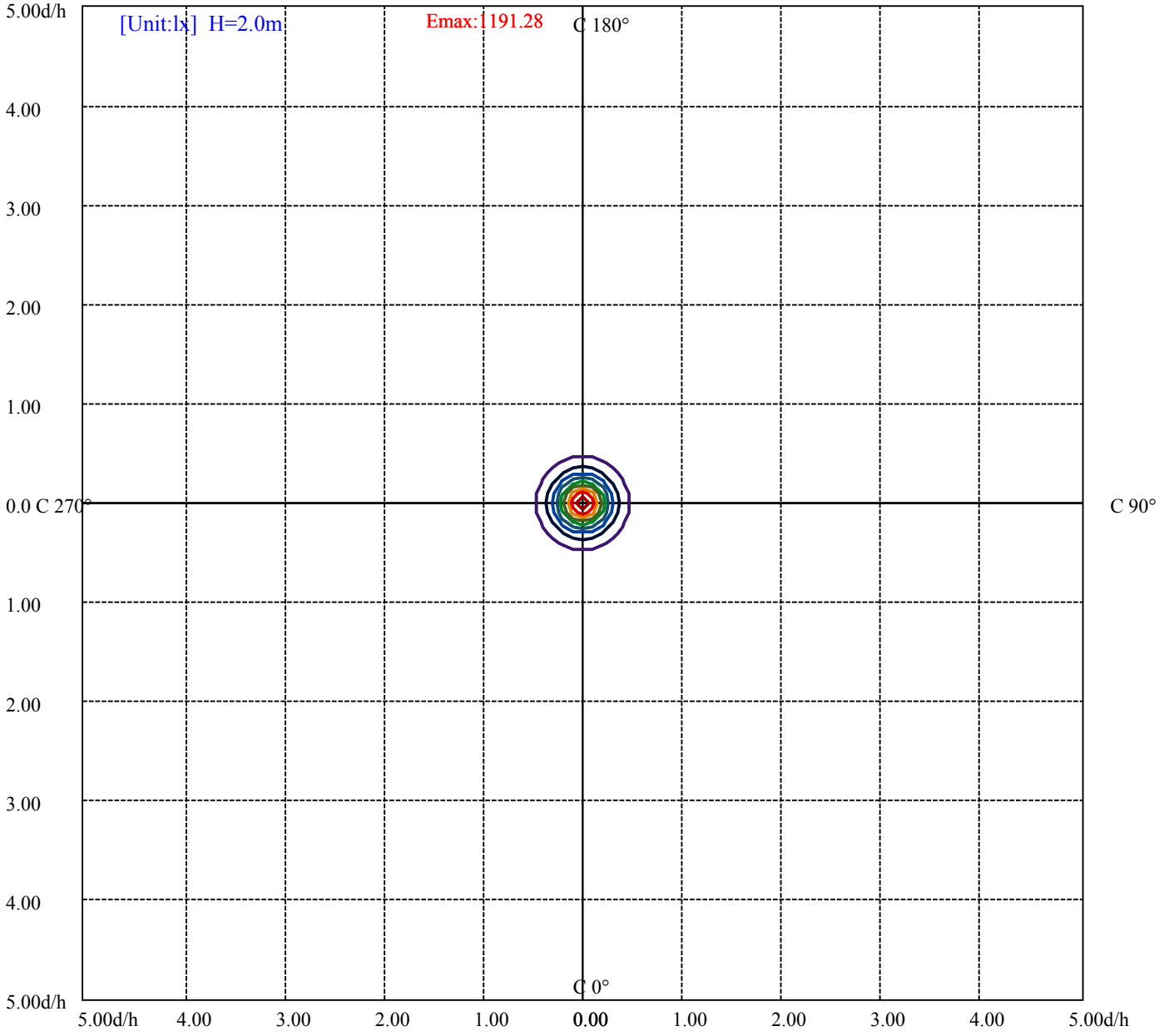
[Unit:cd]

Imax:4765.11

(10%Imax) 476.511
(20%Imax) 953.023
(30%Imax) 1429.53
(40%Imax) 1906.05
(50%Imax) 2382.56
(60%Imax) 2859.07
(70%Imax) 3335.58
(80%Imax) 3812.09
(90%Imax) 4288.6

NT 1-1378-L

ISO illuminance diagram

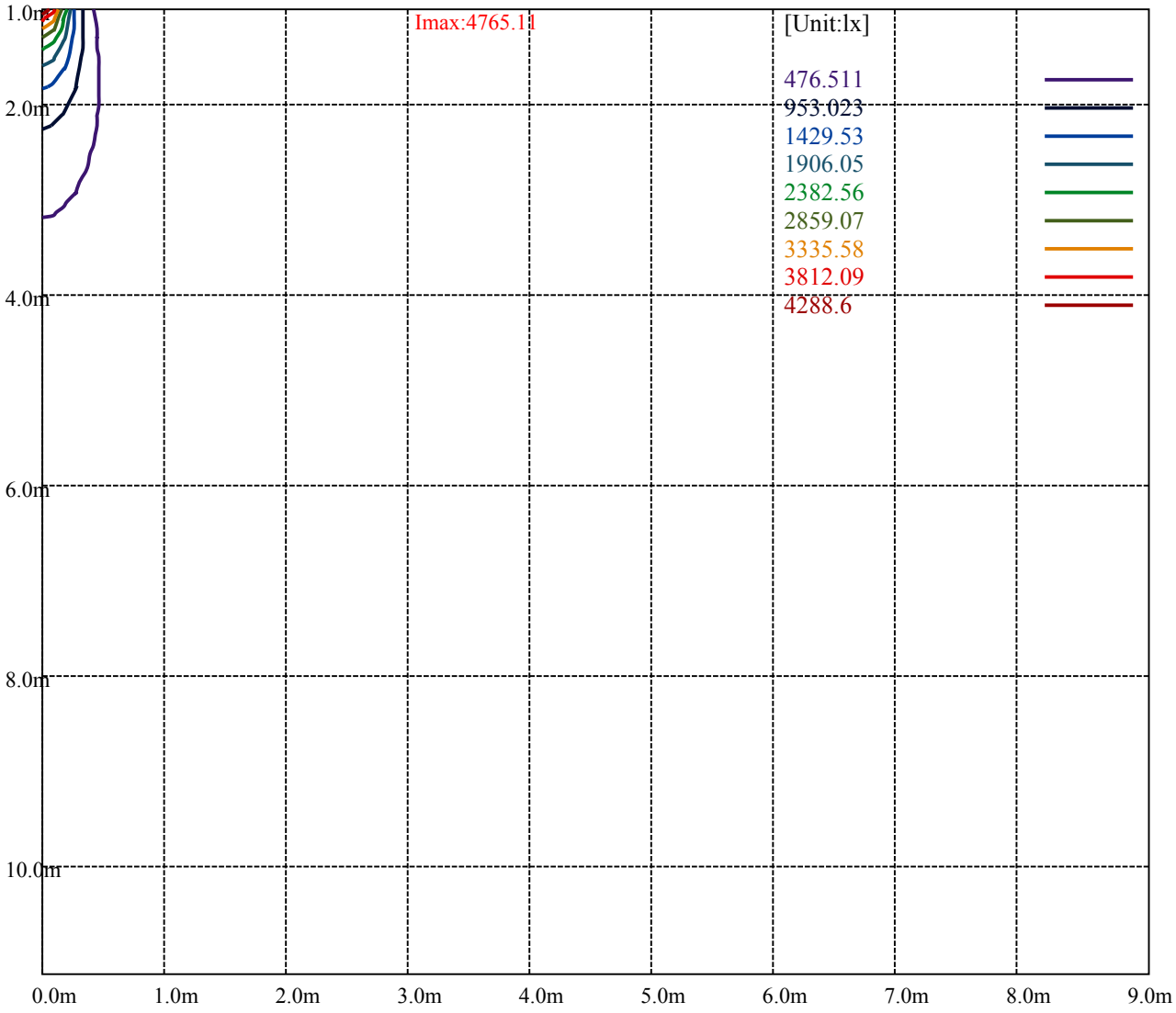


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/22
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/22
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 1-1378-L

Luminance Limitting Curve(no luminous side)

Luminance Table

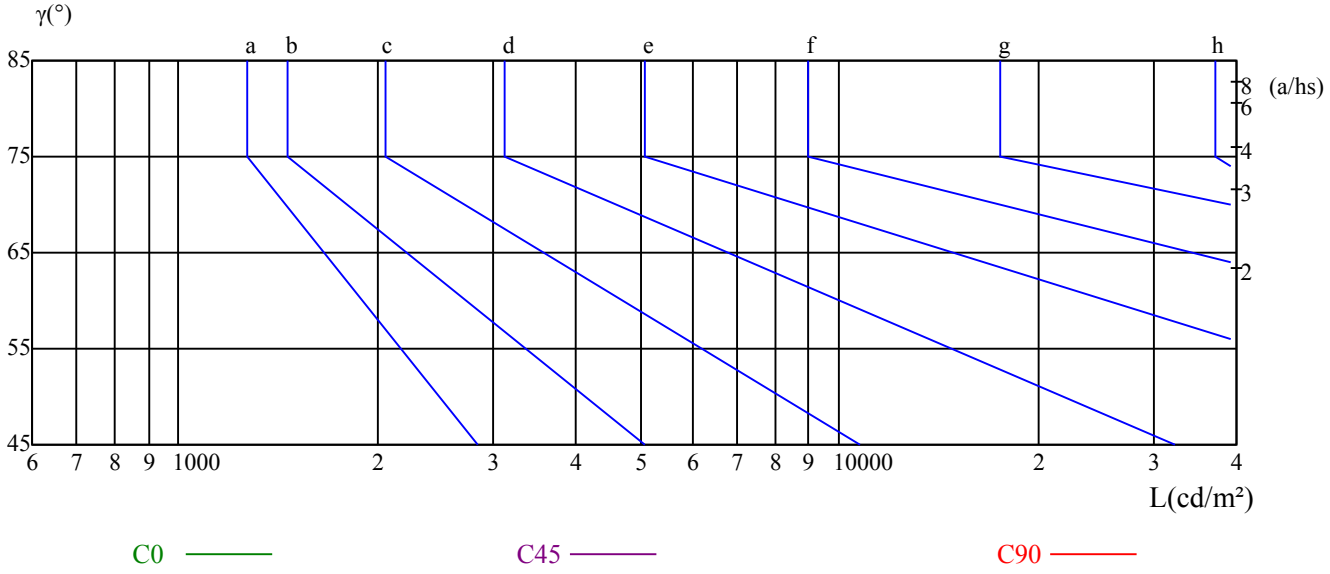
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

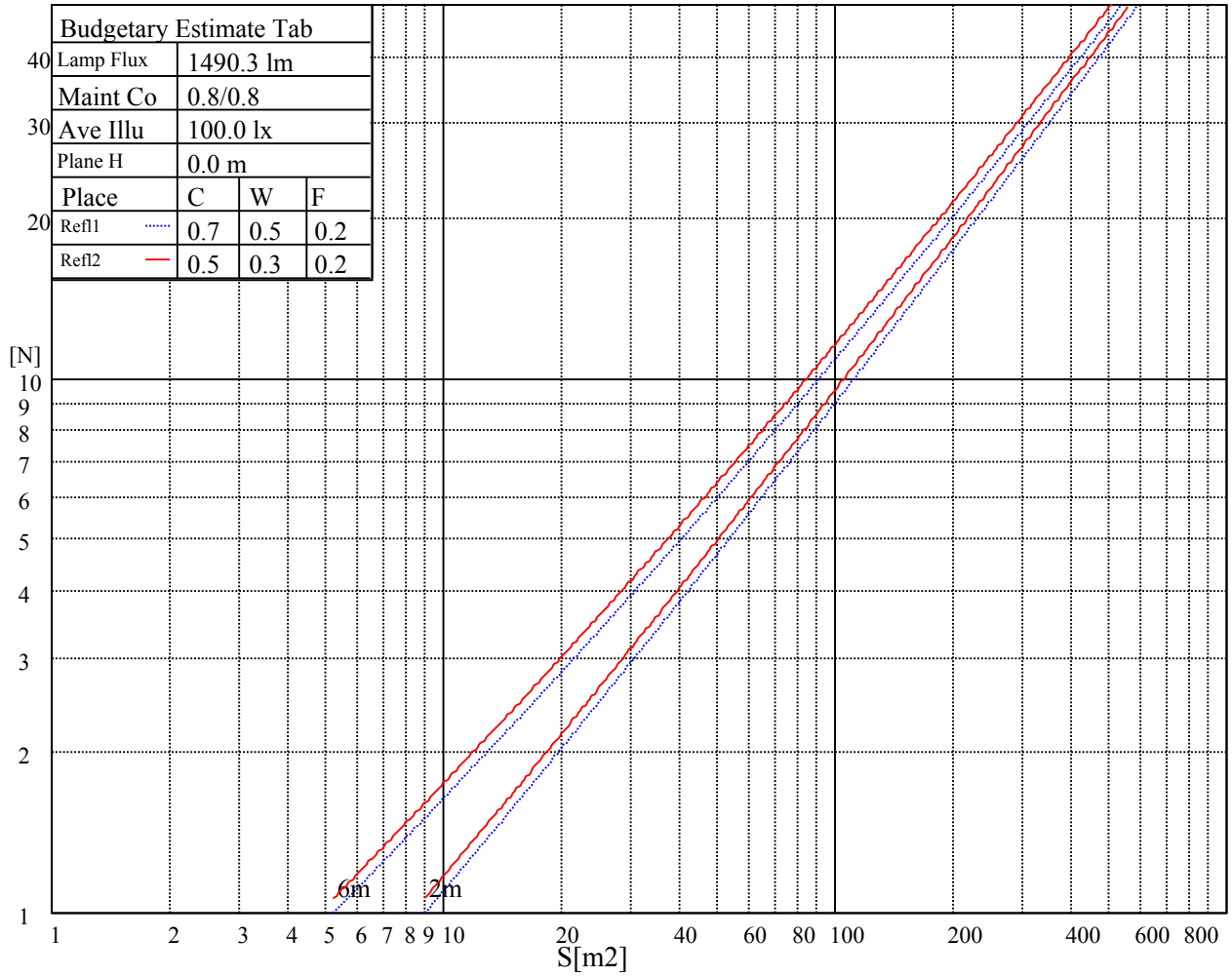
Date: 2023/11/22
Humidity(%): 0.0%

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

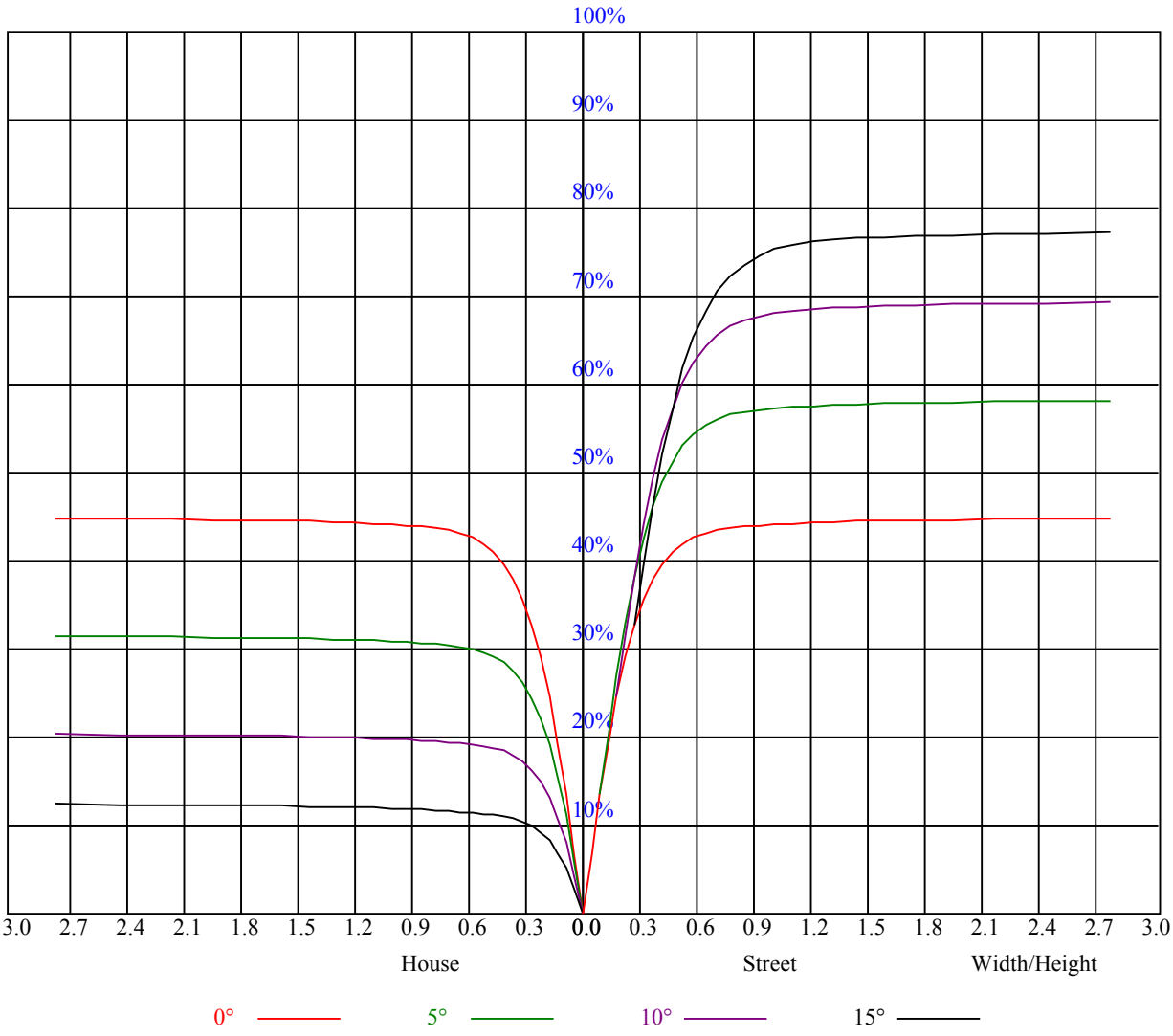


Equipment: GMS1980 Date: 2023/11/22 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	0.99	0.97	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
2	0.95	0.92	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.85	0.86	0.84	0.83	0.82
3	0.91	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.79	0.78
4	0.86	0.82	0.79	0.85	0.81	0.79	0.83	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.82	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.77	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	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.70	0.67	0.66
8	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	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	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	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	0.61	0.60

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/11/22	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	4729.41	4622.58	4467.04	4308.17	4122.18	3862.57	3642.82	3416.98	3183.39
45.0	4791.41	4722.77	4622.03	4453.75	4298.21	4105.02	3894.13	3609.05	3366.05
90.0	4731.07	4625.90	4457.63	4300.42	4114.43	3898.55	3637.29	3411.44	3184.49
135.0	4808.57	4764.84	4679.59	4531.25	4381.79	4205.77	4012.58	3803.90	3526.58
180.0	4729.41	4799.16	4805.80	4766.50	4669.63	4557.82	4411.68	4240.09	4048.01
225.0	4791.41	4816.32	4786.43	4719.45	4628.67	4470.91	4310.94	4056.87	3847.08
270.0	4731.07	4784.77	4806.91	4767.61	4705.61	4577.19	4446.55	4277.17	4040.81
315.0	4808.57	4789.75	4734.39	4608.74	4478.66	4322.56	4100.04	3893.02	3665.52
360.0	4729.41	4622.58	4467.04	4308.17	4122.18	3862.57	3642.82	3416.98	3183.39

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2947.58	2650.33	2417.29	2198.09	1988.85	1753.60	1585.88	1424.80	1101.04
45.0	3149.07	2874.51	2649.22	2421.17	2139.42	1929.63	1743.08	1527.76	1379.41
90.0	2892.78	2654.21	2417.29	2140.52	1937.38	1750.83	1539.38	1387.16	1102.87
135.0	3306.27	3076.00	2841.30	2551.25	2330.39	2062.48	1859.88	1672.79	1476.83
180.0	3792.83	3578.06	3344.46	3047.77	2809.75	2576.16	2297.73	2084.06	1844.38
225.0	3621.79	3342.80	3114.19	2875.62	2636.49	2356.40	2141.63	1938.48	1753.05
270.0	3836.56	3615.14	3398.16	3100.91	2860.12	2618.78	2390.72	2112.85	1909.15
315.0	3442.99	3146.85	2907.17	2665.83	2382.97	2169.31	1961.18	1774.64	1563.19
360.0	2947.58	2650.33	2417.29	2198.09	1988.85	1753.60	1585.88	1424.80	1101.04

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1101.04	1019.56	895.18	803.68	701.39	623.45	550.10	483.18	404.47
45.0	1243.24	1123.12	991.38	892.30	803.73	721.81	626.05	554.09	468.84
90.0	1102.87	1001.13	903.32	814.69	731.11	633.52	562.12	495.41	418.42
135.0	1336.24	1206.71	1091.02	965.37	871.82	784.91	702.44	609.44	544.13
180.0	1675.55	1507.83	1355.06	1186.78	1071.65	969.80	856.32	771.63	693.58
225.0	1539.94	1386.61	1097.88	1097.88	987.18	892.24	783.25	701.66	627.71
270.0	1727.59	1519.46	1363.91	1221.10	1076.07	971.46	855.21	766.65	686.38
315.0	1405.43	1080.89	1080.89	1003.84	883.66	795.10	714.17	640.05	572.30
360.0	1101.04	1019.56	895.18	803.68	701.39	623.45	550.10	483.18	404.47

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	347.51	299.08	255.68	208.90	176.91	149.45	125.71	101.24	85.52
45.0	404.08	346.51	284.52	284.52	233.37	172.48	139.55	117.29	98.42
90.0	359.30	308.82	255.01	217.21	184.27	149.68	125.27	105.34	84.75
135.0	478.26	401.31	345.96	298.91	287.29	235.03	172.09	139.05	116.35
180.0	618.30	549.66	467.18	404.08	331.57	283.41	283.41	191.08	161.36
225.0	541.30	474.99	410.45	351.66	287.73	243.00	204.64	172.81	138.61
270.0	613.32	545.23	462.20	399.10	342.09	280.09	280.09	226.01	164.95
315.0	488.99	426.94	367.60	314.85	258.28	217.65	182.72	146.69	122.94
360.0	347.51	299.08	255.68	208.90	176.91	149.45	125.71	101.24	85.52

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	70.24	60.78	53.19	45.83	41.29	37.59	34.60	31.39	29.06
45.0	82.75	67.14	57.46	50.04	44.28	38.80	35.37	31.88	29.56
90.0	72.02	61.89	53.97	46.33	41.57	37.81	34.82	31.44	29.12
135.0	97.48	78.49	66.54	56.90	49.71	42.84	38.69	35.32	32.49
180.0	135.62	109.05	91.83	77.61	66.15	56.90	48.16	42.90	38.69
225.0	115.97	97.09	78.27	66.15	56.63	47.60	42.12	37.97	33.93
270.0	132.18	110.82	93.05	75.23	63.88	52.97	46.44	41.57	37.64
315.0	102.68	82.53	69.91	59.78	50.26	44.39	39.80	35.54	32.77
360.0	70.24	60.78	53.19	45.83	41.29	37.59	34.60	31.39	29.06

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	27.01	25.13	23.08	21.64	20.31	18.93	17.88	16.83	16.05
45.0	27.46	25.08	23.41	21.86	20.15	18.99	17.93	17.05	16.11
90.0	27.07	24.80	23.14	21.37	20.09	18.88	17.88	16.72	16.05
135.0	29.45	27.34	25.46	23.36	21.81	20.15	18.99	17.93	17.05
180.0	34.54	31.72	29.23	26.63	24.80	23.19	21.31	20.04	18.88
225.0	31.33	29.06	26.63	24.91	23.30	21.92	20.31	19.10	18.10
270.0	33.88	31.27	29.06	26.96	24.74	23.14	21.70	20.37	18.88
315.0	30.33	28.17	26.24	24.08	22.58	20.81	19.60	18.49	17.33
360.0	27.01	25.13	23.08	21.64	20.31	18.93	17.88	16.83	16.05

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	15.39	14.67	14.12	13.67	13.23	12.73	12.40	12.01	11.68
45.0	15.44	14.78	14.28	13.67	13.28	12.84	12.40	12.07	11.62
90.0	15.33	14.72	14.00	13.56	13.12	12.62	12.23	11.90	11.51
135.0	16.05	15.39	14.72	14.23	13.62	13.17	12.79	12.40	11.96
180.0	17.88	16.77	16.05	15.33	14.61	14.12	13.67	13.23	12.73
225.0	17.16	16.16	15.50	14.72	14.23	13.73	13.23	12.84	12.40
270.0	17.88	16.77	16.00	15.28	14.61	14.06	13.62	13.17	12.68
315.0	16.50	15.55	14.95	14.39	13.89	13.34	12.90	12.57	12.18
360.0	15.39	14.67	14.12	13.67	13.23	12.73	12.40	12.01	11.68

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.40	11.02	10.68	10.30	10.02	9.74	9.47	9.24	8.91
45.0	11.29	11.02	10.68	10.30	10.02	9.74	9.52	9.19	8.91
90.0	11.13	10.85	10.46	10.19	9.91	9.58	9.30	9.02	8.75
135.0	11.62	11.24	10.90	10.63	10.24	9.96	9.69	9.47	9.13
180.0	12.40	11.90	11.62	11.24	10.90	10.63	10.35	10.07	9.74
225.0	12.07	11.62	11.35	11.02	10.74	10.35	10.07	9.80	9.47
270.0	12.29	11.96	11.62	11.24	10.96	10.68	10.24	9.96	9.69
315.0	11.85	11.40	11.07	10.79	10.46	10.13	9.80	9.58	9.35
360.0	11.40	11.02	10.68	10.30	10.02	9.74	9.47	9.24	8.91

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.64	8.41	8.19	7.92	7.69	7.53	7.31	7.14	6.92
45.0	8.69	8.41	8.19	7.97	7.69	7.53	7.31	7.14	6.97
90.0	8.47	8.25	8.03	7.80	7.58	7.42	7.20	7.03	6.86
135.0	8.86	8.58	8.36	8.08	7.86	7.64	7.47	7.31	7.14
180.0	9.47	9.19	8.91	8.64	8.41	8.19	7.92	7.69	7.47
225.0	9.24	8.91	8.64	8.41	8.19	7.86	7.69	7.53	7.31
270.0	9.41	9.13	8.80	8.52	8.30	8.08	7.86	7.64	7.42
315.0	9.02	8.75	8.52	8.30	8.03	7.80	7.58	7.42	7.20
360.0	8.64	8.41	8.19	7.92	7.69	7.53	7.31	7.14	6.92

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.81	6.70	6.48	6.37	6.25	6.14	6.03	5.81	5.81
45.0	6.86	6.70	6.53	6.37	6.25	6.09	5.98	5.81	5.76
90.0	6.75	6.59	6.48	6.31	6.09	5.98	5.92	5.70	5.76
135.0	6.97	6.81	6.59	6.48	6.31	6.14	5.98	5.98	5.70
180.0	7.31	7.14	6.92	6.81	6.64	6.48	6.31	6.20	6.03
225.0	7.14	6.97	6.86	6.64	6.48	6.37	6.20	6.09	5.98
270.0	7.20	7.03	6.92	6.75	6.53	6.37	6.25	6.09	5.98
315.0	7.03	6.86	6.70	6.53	6.37	6.20	6.09	5.98	5.87
360.0	6.81	6.70	6.48	6.37	6.25	6.14	6.03	5.81	5.81

Intensity data(cd)

C/γ(°)	90.0
0.0	5.81
45.0	5.70
90.0	5.76
135.0	5.76
180.0	5.98
225.0	5.87
270.0	5.87
315.0	5.70
360.0	5.81