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NT

Client:
LumCAT: 1-1379-L
Luminaire: 92.70.428.00
Report No: 20231205-B009
Ballast type: AC

Test No: 20231205-C009	Voltage(V): 34.950
LampCAT: CREE CXA1516 LES8.9	Current(A): 0.330
Lamp flux(lm): 1642.4	Power (W): 11.553
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1471.91, Efficiency(%): 89.62% , Luminous Efficacy(lm/W): 127.40
Central intensity(cd): 3700.942, Maximum intensity(cd): 3700.942
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=35.0
[C90/270]Total=35.0
Field angle(10%Imax): [C0/180]Total=59.4
[C90/270]Total=59.4
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.56 C90_270=0.56
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.62%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.933%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3700.942	0.000	0	0.00%	0.00%
1.0	3696.306	3.539	3.539	0.22%	0.24%
2.0	3685.858	10.596	14.135	0.65%	0.96%
3.0	3669.736	17.592	31.727	1.07%	2.16%
4.0	3631.404	24.439	56.166	1.49%	3.82%
5.0	3577.019	31.010	87.177	1.89%	5.92%
6.0	3502.637	37.205	124.382	2.27%	8.45%
7.0	3416.770	42.949	167.331	2.62%	11.37%
8.0	3309.661	48.140	215.471	2.93%	14.64%
9.0	3202.759	52.780	268.25	3.21%	18.22%
10.0	3074.131	56.804	325.054	3.46%	22.08%
11.0	2947.648	60.170	385.224	3.66%	26.17%
12.0	2792.451	62.748	447.971	3.82%	30.43%
13.0	2635.039	64.411	512.382	3.92%	34.81%
14.0	2470.224	65.347	577.729	3.98%	39.25%
15.0	2295.099	65.420	643.149	3.98%	43.69%
16.0	2124.125	64.754	707.903	3.94%	48.09%
17.0	1936.753	63.239	771.142	3.85%	52.39%
18.0	1767.648	61.078	832.22	3.72%	56.54%
19.0	1598.474	58.564	890.783	3.57%	60.52%
20.0	1392.911	54.751	945.534	3.33%	64.24%
21.0	1230.234	50.370	995.904	3.07%	67.66%
22.0	1131.684	47.464	1043.367	2.89%	70.89%
23.0	1014.265	45.028	1088.395	2.74%	73.94%
24.0	884.018	41.503	1129.898	2.53%	76.76%
25.0	774.978	37.722	1167.62	2.30%	79.33%
26.0	668.083	34.064	1201.684	2.07%	81.64%
27.0	574.515	30.400	1232.084	1.85%	83.71%
28.0	493.360	27.036	1259.121	1.65%	85.54%
29.0	414.003	23.739	1282.86	1.45%	87.16%
30.0	348.472	20.587	1303.446	1.25%	88.55%
31.0	288.143	17.716	1321.163	1.08%	89.76%
32.0	252.018	15.475	1336.638	0.94%	90.81%
33.0	221.532	13.951	1350.588	0.85%	91.76%
34.0	161.909	11.604	1362.193	0.71%	92.55%
35.0	133.831	9.185	1371.377	0.56%	93.17%
36.0	110.569	7.782	1379.159	0.47%	93.70%
37.0	91.818	6.601	1385.76	0.40%	94.15%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	76.575	5.621	1391.38	0.34%	94.53%
39.0	64.584	4.818	1396.198	0.29%	94.86%
40.0	55.416	4.185	1400.384	0.25%	95.14%
41.0	47.819	3.676	1404.06	0.22%	95.39%
42.0	42.463	3.280	1407.34	0.20%	95.61%
43.0	37.627	2.967	1410.307	0.18%	95.81%
44.0	34.167	2.710	1413.016	0.16%	96.00%
45.0	31.074	2.507	1415.524	0.15%	96.17%
46.0	28.632	2.335	1417.859	0.14%	96.33%
47.0	26.528	2.194	1420.052	0.13%	96.48%
48.0	24.702	2.071	1422.123	0.13%	96.62%
49.0	23.214	1.968	1424.091	0.12%	96.75%
50.0	21.802	1.877	1425.968	0.11%	96.88%
51.0	20.598	1.794	1427.762	0.11%	97.00%
52.0	19.609	1.725	1429.487	0.11%	97.12%
53.0	18.633	1.664	1431.151	0.10%	97.23%
54.0	17.796	1.606	1432.756	0.10%	97.34%
55.0	17.035	1.555	1434.311	0.09%	97.45%
56.0	16.392	1.510	1435.822	0.09%	97.55%
57.0	15.755	1.470	1437.291	0.09%	97.65%
58.0	15.215	1.432	1438.724	0.09%	97.75%
59.0	14.676	1.397	1440.121	0.09%	97.84%
60.0	14.205	1.364	1441.485	0.08%	97.93%
61.0	13.804	1.337	1442.822	0.08%	98.02%
62.0	13.389	1.310	1444.132	0.08%	98.11%
63.0	12.987	1.283	1445.415	0.08%	98.20%
64.0	12.607	1.256	1446.671	0.08%	98.29%
65.0	12.282	1.232	1447.903	0.07%	98.37%
66.0	11.963	1.210	1449.112	0.07%	98.45%
67.0	11.687	1.189	1450.302	0.07%	98.53%
68.0	11.410	1.170	1451.472	0.07%	98.61%
69.0	11.119	1.149	1452.621	0.07%	98.69%
70.0	10.898	1.131	1453.752	0.07%	98.77%
71.0	10.649	1.114	1454.865	0.07%	98.84%
72.0	10.393	1.094	1455.959	0.07%	98.92%
73.0	10.123	1.073	1457.032	0.07%	98.99%
74.0	9.860	1.051	1458.083	0.06%	99.06%
75.0	9.604	1.028	1459.111	0.06%	99.13%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.362	1.007	1460.118	0.06%	99.20%
77.0	9.216	0.990	1461.108	0.06%	99.27%
78.0	8.933	0.972	1462.08	0.06%	99.33%
79.0	8.628	0.944	1463.024	0.06%	99.40%
80.0	8.351	0.915	1463.939	0.06%	99.46%
81.0	8.144	0.892	1464.831	0.05%	99.52%
82.0	7.936	0.872	1465.703	0.05%	99.58%
83.0	7.701	0.850	1466.553	0.05%	99.64%
84.0	7.521	0.829	1467.382	0.05%	99.69%
85.0	7.286	0.808	1468.19	0.05%	99.75%
86.0	7.044	0.783	1468.974	0.05%	99.80%
87.0	6.836	0.760	1469.733	0.05%	99.85%
88.0	6.677	0.740	1470.474	0.05%	99.90%
89.0	6.525	0.724	1471.197	0.04%	99.95%
90.0	6.421	0.710	1471.907	0.04%	100.00%

Zonal flux distribution table

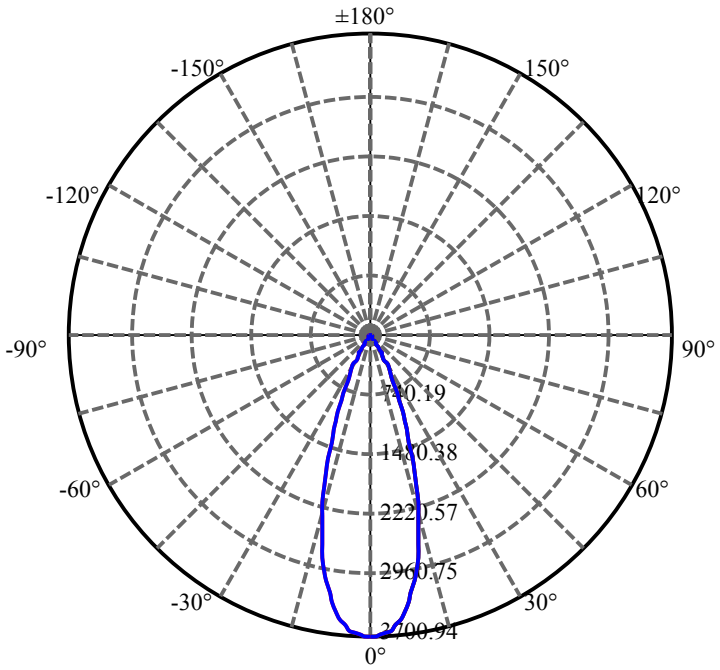
ZONAL LUMEN SUMMARY

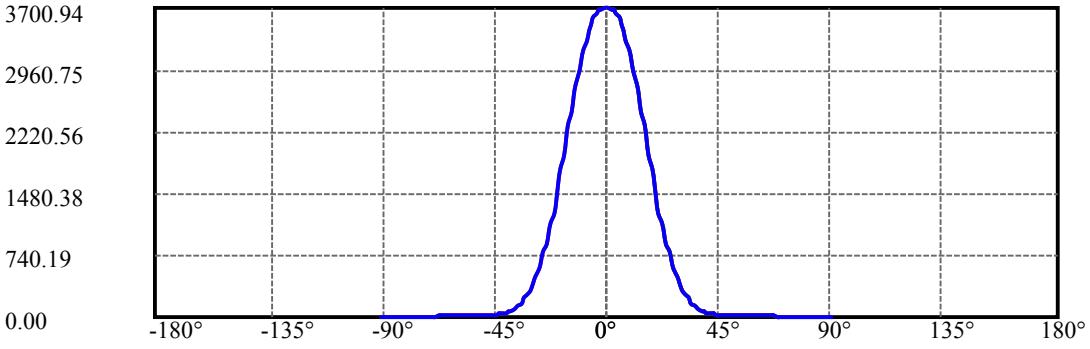
Zone	Lumens	%Lamp	%Fixt
0-30	1303.45	79.36%	88.55%
0-40	1400.38	85.27%	95.14%
0-60	1441.49	87.77%	97.93%
0-90	1471.20	89.58%	99.95%
0-120	1471.20	89.58%	99.95%
0-180	1471.91	89.62%	100.00%
60-90	29.71	1.81%	2.02%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.29	1177.53	71.70%	80.00%

ZONAL LUMEN SUMMARY

0-10	325.05
10-20	620.48
20-30	357.91
30-40	96.94
40-50	25.58
50-60	15.52
60-70	12.27
70-80	10.19
80-90	7.26
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:29.7 Right:29.7
:C90/270Left:29.7 Right:29.7

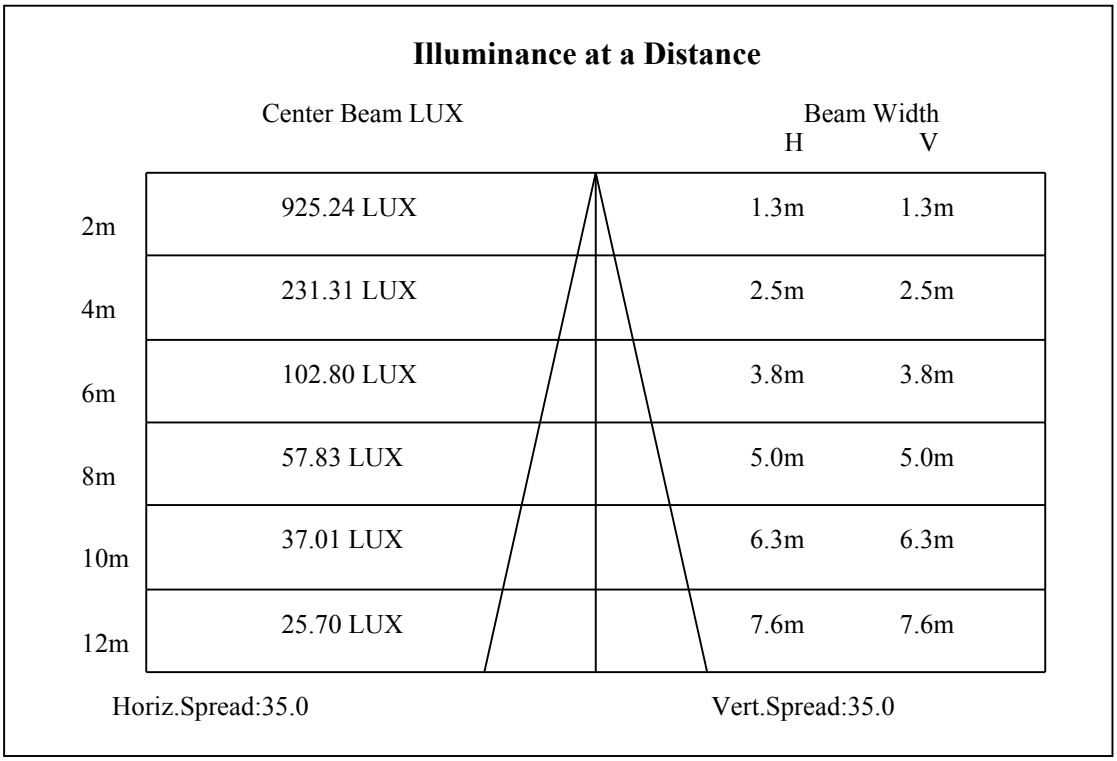
Beam Angle(50%Imax):C0/180Left:17.5 Right:17.5
:C90/270Left:17.5 Right:17.5

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/12/05
Humidity(%): 0.0%

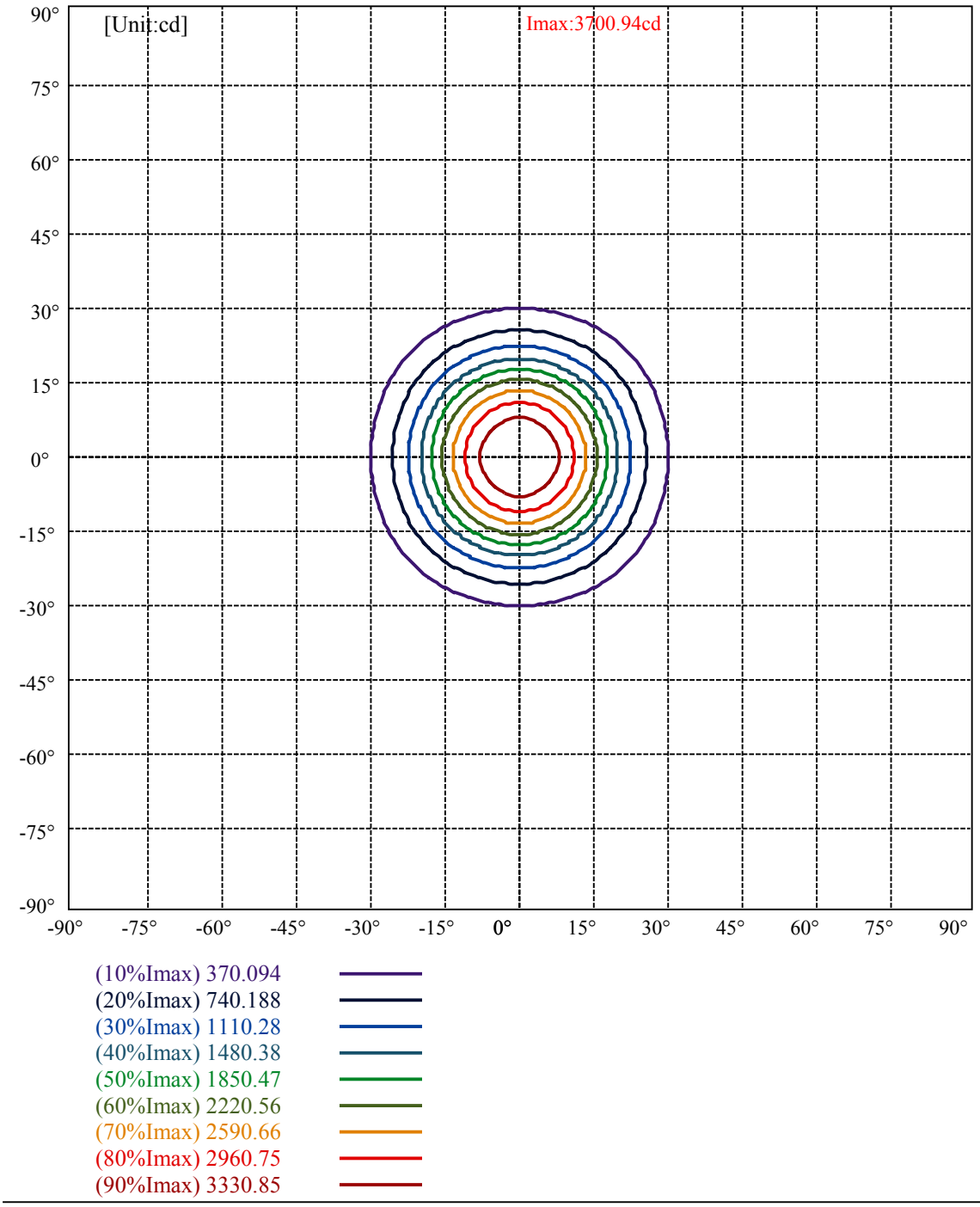
Operator: NT07
Distance(m): 7.44

Lux distance Curve



Equipment: GMS1980 Date: 2023/12/05 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

ISO-Intensity(V-H)

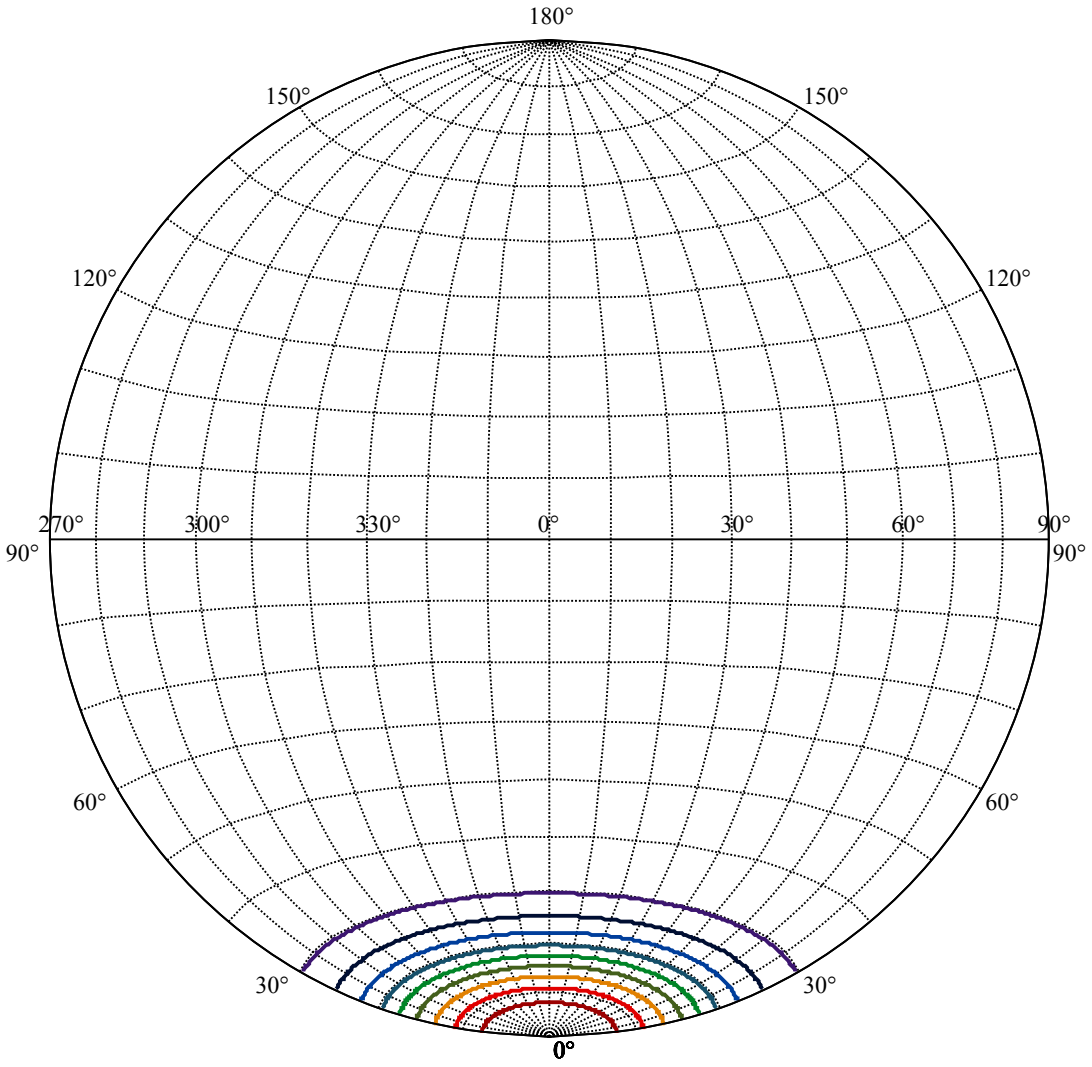


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/12/05
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



[Unit:cd]

Imax:3700.94

(10%Imax) 370.094
(20%Imax) 740.188
(30%Imax) 1110.28
(40%Imax) 1480.38
(50%Imax) 1850.47
(60%Imax) 2220.56
(70%Imax) 2590.66
(80%Imax) 2960.75
(90%Imax) 3330.85

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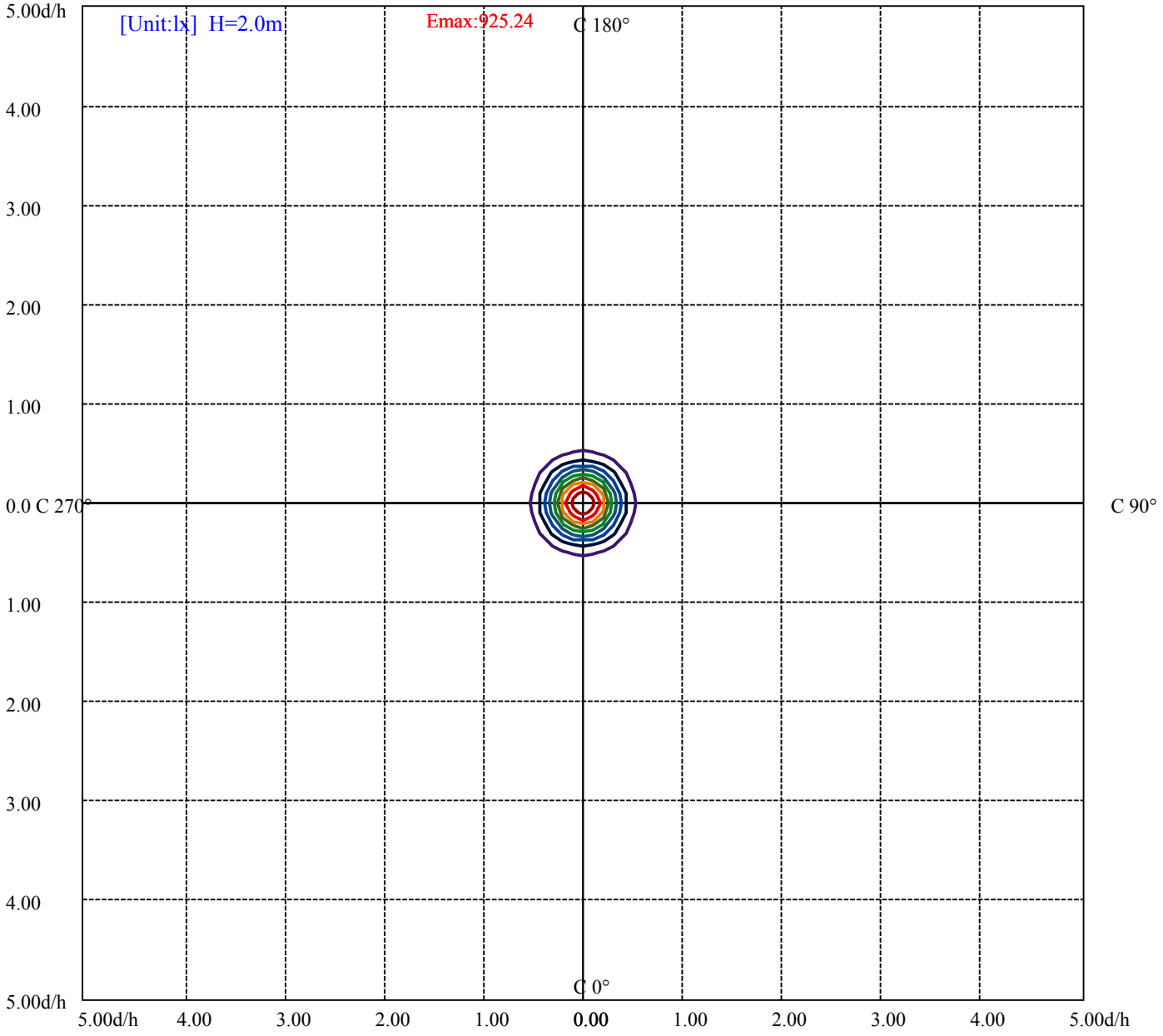
ISO illuminance diagram



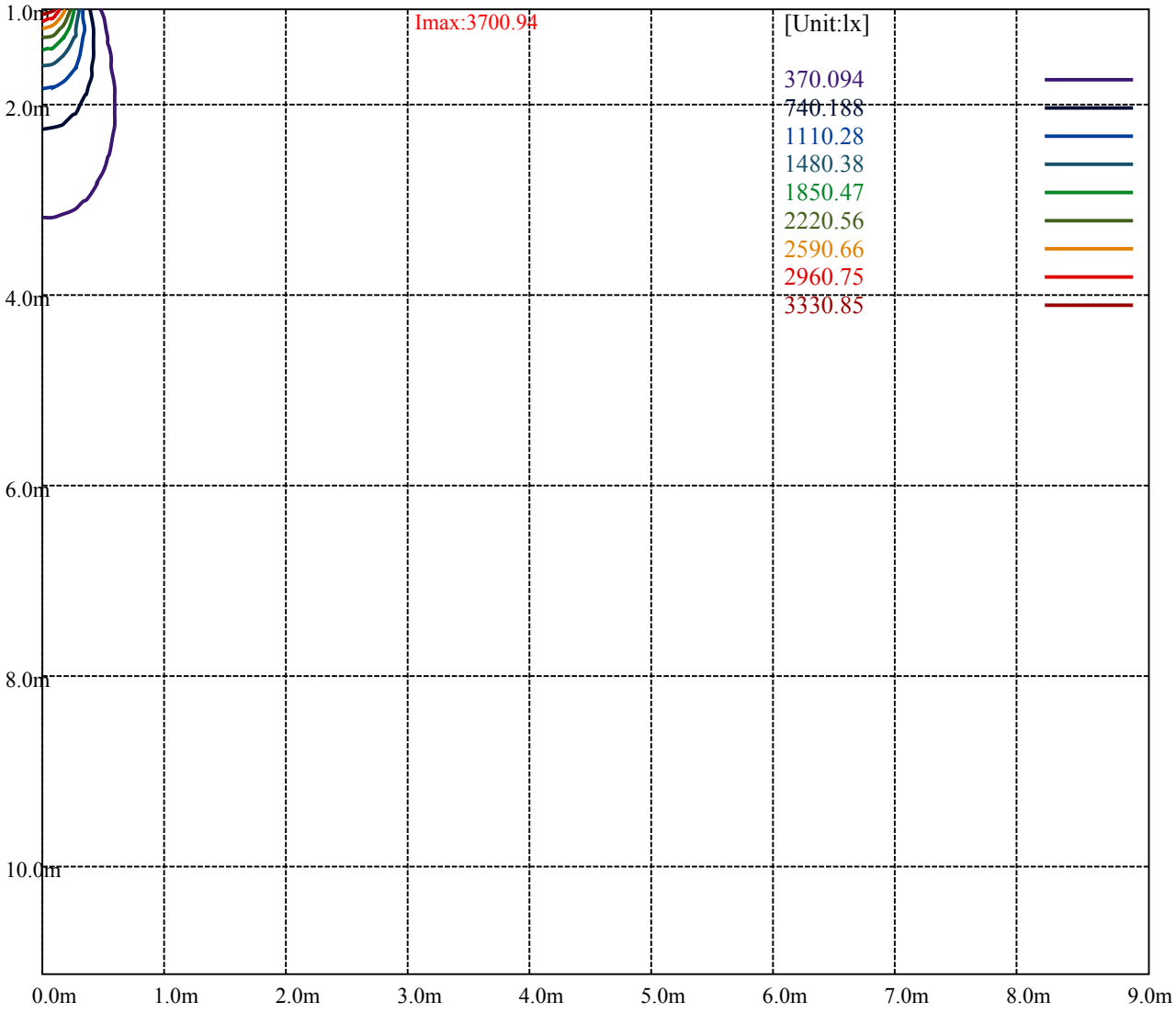
(10%Emax) 92.5235
(20%Emax) 185.047
(30%Emax) 277.57
(40%Emax) 370.095
(50%Emax) 462.6175
(60%Emax) 555.14
(70%Emax) 647.665
(80%Emax) 740.1875
(90%Emax) 832.7125

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/12/05
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/12/05
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

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Luminance Limitting Curve(no luminous side)

Luminance Table

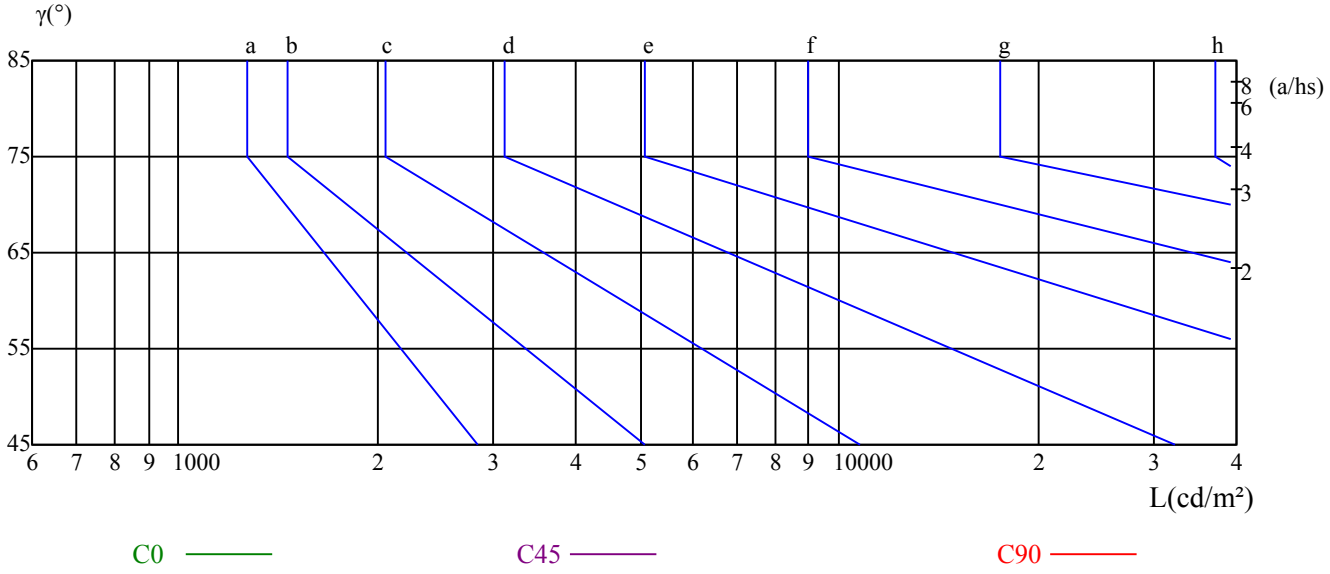
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

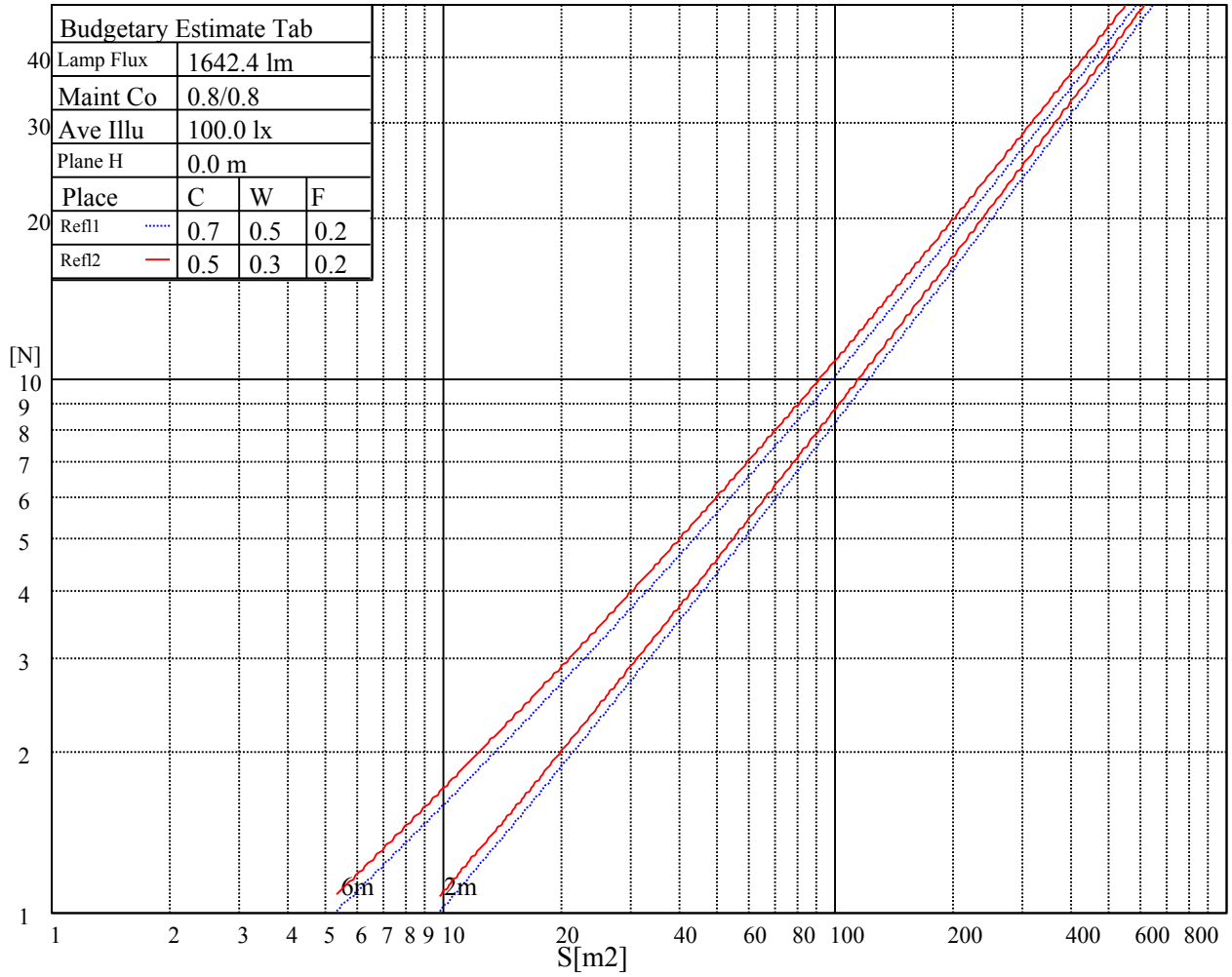
Date: 2023/12/05
Humidity(%): 0.0%

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

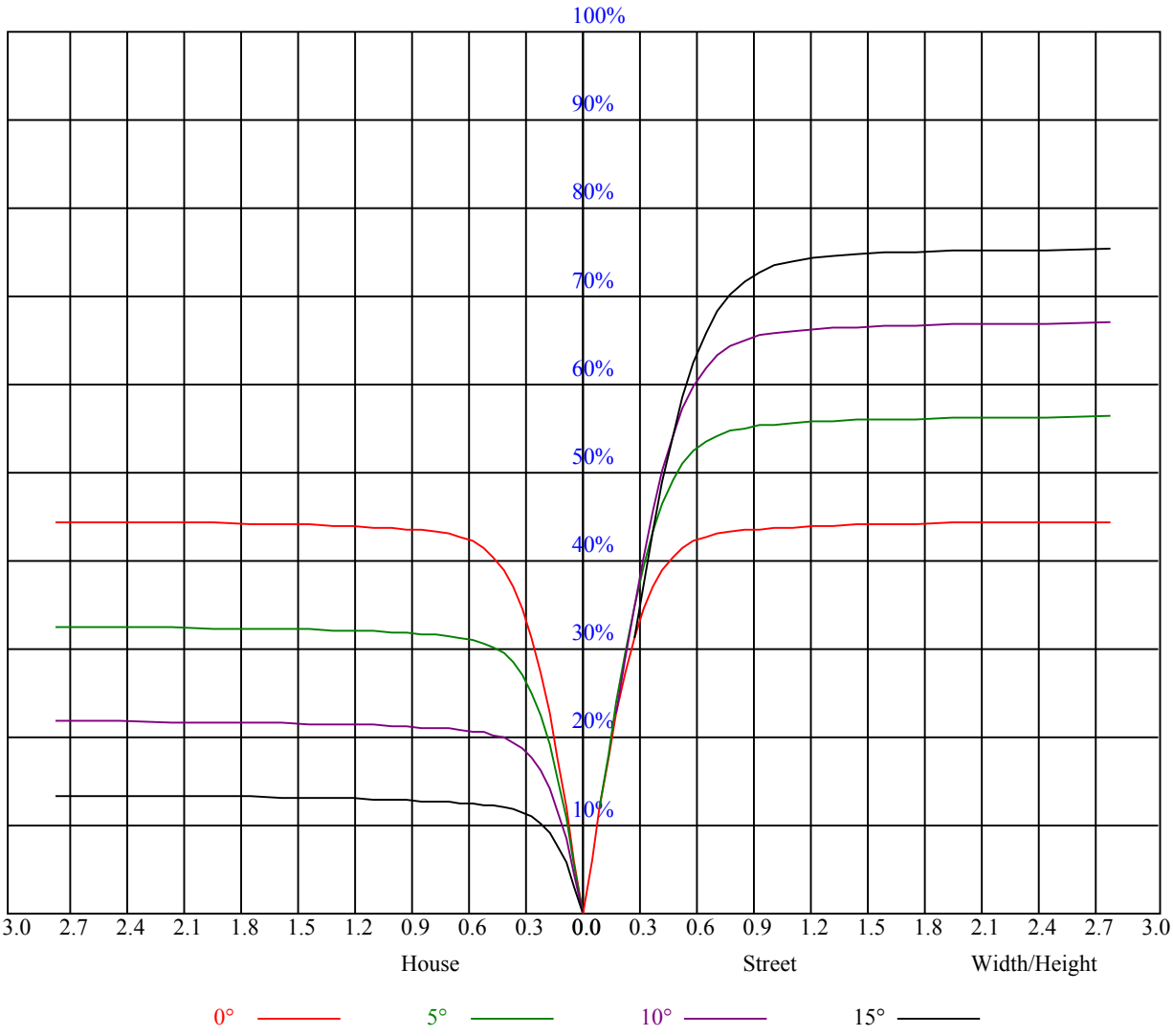


Equipment: GMS1980 Date: 2023/12/05 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.07	1.07	1.07	1.04	1.04	1.04	1.00	1.00	1.00	0.95	0.95	0.95	0.91	0.91	0.91	0.90
1	1.00	0.98	0.96	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.91	0.88	0.93	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.84	0.85	0.83	0.82	0.80
3	0.89	0.85	0.82	0.88	0.84	0.82	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
4	0.85	0.81	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.79	0.76	0.74	0.73
5	0.81	0.76	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
6	0.77	0.73	0.70	0.77	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
7	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
8	0.71	0.67	0.64	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62
9	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.66	0.63	0.60	0.59
10	0.66	0.61	0.59	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.57

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/12/05	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	3695.41	3683.23	3681.57	3643.37	3558.13	3486.17	3403.69	3315.13	3180.06
45.0	3711.46	3704.82	3693.19	3686.00	3648.91	3590.79	3521.60	3437.46	3323.98
90.0	3701.50	3688.76	3677.69	3641.71	3592.45	3518.83	3433.03	3338.93	3199.99
135.0	3695.41	3689.87	3678.80	3677.69	3642.82	3595.22	3516.61	3435.80	3325.64
180.0	3695.41	3711.46	3705.37	3696.51	3696.51	3667.18	3620.13	3547.06	3463.47
225.0	3711.46	3701.50	3692.09	3676.59	3637.84	3580.27	3487.83	3395.39	3301.84
270.0	3701.50	3707.58	3697.62	3684.89	3659.98	3622.34	3569.20	3486.72	3396.50
315.0	3695.41	3683.23	3660.53	3651.12	3614.59	3555.36	3469.01	3377.68	3285.79
360.0	3695.41	3683.23	3681.57	3643.37	3558.13	3486.17	3403.69	3315.13	3180.06

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3067.14	2945.37	2811.41	2624.31	2467.11	2308.25	2106.76	1944.02	1752.49
45.0	3216.60	3103.68	2980.79	2805.32	2655.87	2498.66	2294.96	2129.45	1925.20
90.0	3082.09	2918.24	2771.00	2616.56	2453.27	2256.21	2089.04	1922.43	1761.91
135.0	3221.03	3104.23	2975.81	2802.00	2651.99	2490.91	2318.76	2105.10	1937.38
180.0	3356.64	3253.68	3140.21	3016.77	2840.75	2689.63	2535.75	2370.79	2158.79
225.0	3198.33	3055.52	2930.42	2797.02	2659.74	2466.56	2303.26	2138.31	1936.27
270.0	3296.31	3162.35	3045.00	2885.03	2738.34	2592.21	2452.72	2285.00	2086.83
315.0	3183.94	3049.98	2926.54	2792.59	2613.24	2459.36	2259.53	2097.90	1935.16
360.0	3067.14	2945.37	2811.41	2624.31	2467.11	2308.25	2106.76	1944.02	1752.49

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1605.25	1459.12	1102.48	1102.48	1007.82	891.25	782.09	661.31	574.40
45.0	1765.23	1612.45	1424.80	1286.42	1155.23	1031.24	885.10	778.27	681.96
90.0	1568.17	1418.16	1082.94	1082.94	995.87	881.84	749.88	656.11	570.75
135.0	1771.87	1580.35	1432.55	1287.52	1122.57	999.13	855.21	748.93	652.62
180.0	1988.30	1781.28	1619.65	1467.98	1284.20	1145.27	1018.51	897.84	762.77
225.0	1772.98	1577.58	1426.46	1091.13	1091.13	1001.68	885.93	776.61	675.81
270.0	1930.18	1770.21	1610.24	1421.48	1294.72	1154.68	1000.79	892.30	757.24
315.0	1739.21	1588.65	1444.18	1101.92	1101.92	1009.04	894.62	788.46	669.11
360.0	1605.25	1459.12	1102.48	1102.48	1007.82	891.25	782.09	661.31	574.40

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	495.03	425.45	348.73	296.03	238.02	200.16	167.61	132.90	110.76
45.0	596.71	502.06	432.31	369.76	301.12	288.39	288.39	166.73	138.49
90.0	473.05	405.35	344.35	280.26	235.42	197.78	165.67	132.18	110.71
135.0	562.39	483.24	395.78	336.55	284.52	284.52	189.70	159.14	127.31
180.0	663.69	573.46	493.75	404.08	340.98	285.62	285.62	187.70	157.15
225.0	564.11	483.90	411.66	348.73	281.25	235.20	188.48	158.20	132.18
270.0	659.26	571.25	472.72	402.97	341.53	287.29	287.29	191.03	160.64
315.0	581.88	502.17	412.72	349.39	282.30	237.19	199.49	167.39	133.40
360.0	495.03	425.45	348.73	296.03	238.02	200.16	167.61	132.90	110.76

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	92.72	78.21	63.60	54.74	47.83	41.52	37.53	34.21	31.33
45.0	115.02	91.89	77.05	64.99	55.58	47.00	41.90	37.75	34.32
90.0	93.27	78.99	64.38	55.58	48.66	42.01	37.75	33.43	30.67
135.0	106.89	90.06	73.51	62.88	54.47	48.10	41.90	38.03	34.71
180.0	124.93	104.29	87.51	70.74	60.06	51.76	45.33	39.25	35.54
225.0	105.39	88.73	75.23	61.89	53.75	47.38	42.57	37.53	33.93
270.0	134.79	108.83	92.39	78.88	67.75	56.74	50.10	43.51	38.97
315.0	111.54	93.55	78.93	66.98	55.24	48.05	42.62	37.31	33.88
360.0	92.72	78.21	63.60	54.74	47.83	41.52	37.53	34.21	31.33

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	28.45	26.57	24.91	23.08	21.81	20.54	19.60	18.71	17.93
45.0	30.78	28.56	26.57	24.41	22.92	21.70	20.37	19.37	18.32
90.0	28.40	26.46	24.36	22.92	21.70	20.59	19.37	18.54	17.77
135.0	31.88	29.06	27.07	25.35	23.53	22.20	20.81	19.76	18.88
180.0	32.55	30.06	27.51	25.74	24.19	22.53	21.42	20.37	19.21
225.0	30.94	28.62	26.24	24.63	23.19	21.64	20.59	19.65	18.49
270.0	35.20	31.55	29.28	27.29	25.57	23.69	22.36	21.20	20.09
315.0	30.39	28.17	26.29	24.19	22.81	21.53	20.26	19.26	18.38
360.0	28.45	26.57	24.91	23.08	21.81	20.54	19.60	18.71	17.93

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.10	16.50	15.94	15.39	14.78	14.34	13.95	13.51	13.12
45.0	17.55	16.94	16.33	15.61	15.11	14.61	14.23	13.78	13.28
90.0	17.10	16.33	15.78	15.11	14.67	14.23	13.73	13.40	13.06
135.0	18.05	17.16	16.55	15.94	15.39	14.78	14.34	13.95	13.56
180.0	18.38	17.38	16.77	16.16	15.55	14.95	14.45	14.06	13.67
225.0	17.66	16.94	16.22	15.61	15.11	14.56	14.06	13.62	13.28
270.0	18.93	18.10	17.38	16.55	15.94	15.39	14.78	14.34	13.84
315.0	17.60	16.94	16.16	15.67	15.17	14.56	14.12	13.78	13.28
360.0	17.10	16.50	15.94	15.39	14.78	14.34	13.95	13.51	13.12

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	12.79	12.40	12.07	11.79	11.46	11.18	10.90	10.74	10.41
45.0	12.90	12.51	12.23	11.90	11.57	11.35	11.07	10.79	10.57
90.0	12.79	12.40	12.12	11.85	11.68	11.40	11.24	11.13	10.90
135.0	13.06	12.73	12.40	12.07	11.85	11.46	11.24	10.96	10.68
180.0	13.17	12.79	12.45	12.12	11.85	11.57	11.18	10.96	10.74
225.0	12.90	12.45	12.12	11.79	11.46	11.24	10.90	10.68	10.46
270.0	13.40	13.06	12.68	12.29	12.01	11.73	11.40	11.13	10.85
315.0	12.90	12.51	12.18	11.90	11.62	11.35	11.02	10.79	10.57
360.0	12.79	12.40	12.07	11.79	11.46	11.18	10.90	10.74	10.41

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.13	9.85	9.63	9.30	9.13	8.80	8.58	8.36	8.14
45.0	10.30	10.02	9.74	9.52	9.30	9.02	8.75	8.58	8.36
90.0	10.68	10.46	10.07	9.85	9.63	10.35	9.74	8.80	8.36
135.0	10.46	10.13	10.02	9.74	9.47	9.24	9.02	9.08	8.64
180.0	10.41	10.19	9.91	9.63	9.35	9.13	8.91	8.64	8.36
225.0	10.19	9.91	9.63	9.41	9.19	8.86	8.64	8.36	8.14
270.0	10.63	10.35	10.07	9.80	9.52	9.24	9.02	8.69	8.47
315.0	10.35	10.07	9.80	9.58	9.30	9.08	8.80	8.52	8.36
360.0	10.13	9.85	9.63	9.30	9.13	8.80	8.58	8.36	8.14

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.92	7.75	7.53	7.31	7.14	6.86	6.70	6.53	6.42
45.0	8.08	7.92	7.64	7.47	7.36	6.97	6.81	6.64	6.48
90.0	8.14	7.86	7.69	7.53	7.03	6.86	6.70	6.48	6.42
135.0	8.41	8.19	7.80	7.58	7.25	6.97	6.86	6.75	6.42
180.0	8.19	7.97	7.75	7.58	7.36	7.14	6.92	6.75	6.70
225.0	7.97	7.75	7.58	7.42	7.25	6.97	6.86	6.70	6.48
270.0	8.30	8.08	7.86	7.69	7.53	7.36	6.97	6.86	6.75
315.0	8.14	7.97	7.75	7.58	7.36	7.20	6.86	6.70	6.53
360.0	7.92	7.75	7.53	7.31	7.14	6.86	6.70	6.53	6.42

Intensity data(cd)

C/γ(°)	90.0
0.0	6.37
45.0	6.42
90.0	6.42
135.0	6.48
180.0	6.42
225.0	6.48
270.0	6.42
315.0	6.37
360.0	6.37