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NT

Client:
LumCAT: 2-2639-L
Luminaire: 92.70.412.00
Report No: 20231117-B006
Ballast type: AC

Test No: 20231117-C006	Voltage(V): 35.840
LampCAT: P2141-036-1206-P3090-1	Current(A): 0.700
Lamp flux(lm): 3111.0	Power (W): 25.088
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2906.80, Efficiency(%): 93.44% , Luminous Efficacy(lm/W): 115.86
Central intensity(cd): 10539.460, Maximum intensity(cd): 10539.460
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=22.8
[C90/270]Total=22.8
Field angle(10%Imax): [C0/180]Total=57.8
[C90/270]Total=57.8
Beam angle of C0 plane : 22.83
Aveage BeamAngle(IEC 61341):22.83
Maximum s/h(1/2): C0_180=0.38 C90_270=0.38
Maximum s/h(1/4): C0_180=0.43 C90_270=0.43
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.44%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.831%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10539.464	0.000	0	0.00%	0.00%
1.0	10502.308	10.068	10.068	0.32%	0.35%
2.0	10338.115	29.912	39.98	0.96%	1.38%
3.0	10060.102	48.786	88.766	1.57%	3.05%
4.0	9604.126	65.822	154.589	2.12%	5.32%
5.0	9103.591	80.480	235.068	2.59%	8.09%
6.0	8519.473	92.614	327.682	2.98%	11.27%
7.0	7910.514	101.981	429.663	3.28%	14.78%
8.0	7281.835	108.729	538.391	3.50%	18.52%
9.0	6627.832	112.730	651.122	3.62%	22.40%
10.0	6076.372	114.968	766.09	3.70%	26.36%
11.0	5473.848	115.410	881.501	3.71%	30.33%
12.0	4981.063	114.287	995.788	3.67%	34.26%
13.0	4491.045	112.410	1108.198	3.61%	38.12%
14.0	4064.753	109.513	1217.711	3.52%	41.89%
15.0	3693.677	106.511	1324.222	3.42%	45.56%
16.0	3317.826	102.738	1426.96	3.30%	49.09%
17.0	2974.564	97.989	1524.95	3.15%	52.46%
18.0	2696.205	93.499	1618.449	3.01%	55.68%
19.0	2447.529	89.490	1707.939	2.88%	58.76%
20.0	2233.310	85.672	1793.611	2.75%	61.70%
21.0	2043.309	82.120	1875.731	2.64%	64.53%
22.0	1890.187	79.045	1954.776	2.54%	67.25%
23.0	1752.218	76.428	2031.204	2.46%	69.88%
24.0	1636.529	74.090	2105.294	2.38%	72.43%
25.0	1491.524	71.125	2176.419	2.29%	74.87%
26.0	1377.267	67.718	2244.137	2.18%	77.20%
27.0	1263.944	64.618	2308.755	2.08%	79.43%
28.0	1137.212	60.792	2369.547	1.95%	81.52%
29.0	1047.200	57.150	2426.698	1.84%	83.48%
30.0	924.052	53.223	2479.921	1.71%	85.31%
31.0	813.048	48.341	2528.262	1.55%	86.98%
32.0	700.348	43.357	2571.619	1.39%	88.47%
33.0	598.857	38.275	2609.894	1.23%	89.79%
34.0	493.588	33.061	2642.955	1.06%	90.92%
35.0	398.906	27.718	2670.672	0.89%	91.88%
36.0	322.442	22.968	2693.64	0.74%	92.67%
37.0	263.954	19.125	2712.765	0.61%	93.32%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	204.116	15.624	2728.388	0.50%	93.86%
39.0	163.348	12.543	2740.931	0.40%	94.29%
40.0	118.720	9.838	2750.769	0.32%	94.63%
41.0	97.623	7.704	2758.472	0.25%	94.90%
42.0	86.172	6.678	2765.15	0.21%	95.13%
43.0	78.166	6.088	2771.238	0.20%	95.34%
44.0	71.240	5.639	2776.877	0.18%	95.53%
45.0	65.518	5.256	2782.132	0.17%	95.71%
46.0	60.861	4.942	2787.075	0.16%	95.88%
47.0	56.786	4.679	2791.754	0.15%	96.04%
48.0	53.790	4.470	2796.224	0.14%	96.20%
49.0	51.029	4.304	2800.528	0.14%	96.34%
50.0	48.739	4.160	2804.688	0.13%	96.49%
51.0	46.670	4.037	2808.725	0.13%	96.63%
52.0	45.175	3.941	2812.666	0.13%	96.76%
53.0	43.992	3.879	2816.545	0.12%	96.90%
54.0	43.162	3.841	2820.386	0.12%	97.03%
55.0	42.712	3.833	2824.219	0.12%	97.16%
56.0	42.532	3.852	2828.071	0.12%	97.29%
57.0	42.477	3.887	2831.958	0.12%	97.43%
58.0	42.394	3.925	2835.883	0.13%	97.56%
59.0	41.930	3.942	2839.825	0.13%	97.70%
60.0	40.906	3.913	2843.739	0.13%	97.83%
61.0	39.107	3.818	2847.557	0.12%	97.96%
62.0	36.651	3.650	2851.207	0.12%	98.09%
63.0	33.254	3.400	2854.607	0.11%	98.20%
64.0	30.292	3.118	2857.725	0.10%	98.31%
65.0	27.538	2.862	2860.587	0.09%	98.41%
66.0	25.622	2.652	2863.24	0.09%	98.50%
67.0	24.044	2.497	2865.737	0.08%	98.59%
68.0	22.861	2.376	2868.113	0.08%	98.67%
69.0	22.051	2.291	2870.404	0.07%	98.75%
70.0	21.249	2.224	2872.628	0.07%	98.82%
71.0	20.578	2.162	2874.79	0.07%	98.90%
72.0	19.893	2.104	2876.894	0.07%	98.97%
73.0	19.291	2.049	2878.943	0.07%	99.04%
74.0	18.737	1.999	2880.943	0.06%	99.11%
75.0	18.156	1.949	2882.892	0.06%	99.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.651	1.901	2884.793	0.06%	99.24%
77.0	17.139	1.855	2886.648	0.06%	99.31%
78.0	16.661	1.809	2888.457	0.06%	99.37%
79.0	16.170	1.764	2890.221	0.06%	99.43%
80.0	15.679	1.717	2891.938	0.06%	99.49%
81.0	15.243	1.672	2893.61	0.05%	99.55%
82.0	14.710	1.624	2895.234	0.05%	99.60%
83.0	14.267	1.575	2896.81	0.05%	99.66%
84.0	13.845	1.532	2898.341	0.05%	99.71%
85.0	13.465	1.491	2899.832	0.05%	99.76%
86.0	13.133	1.454	2901.286	0.05%	99.81%
87.0	12.814	1.420	2902.706	0.05%	99.86%
88.0	12.503	1.387	2904.093	0.04%	99.91%
89.0	12.302	1.360	2905.452	0.04%	99.95%
90.0	12.192	1.343	2906.795	0.04%	100.00%

Zonal flux distribution table

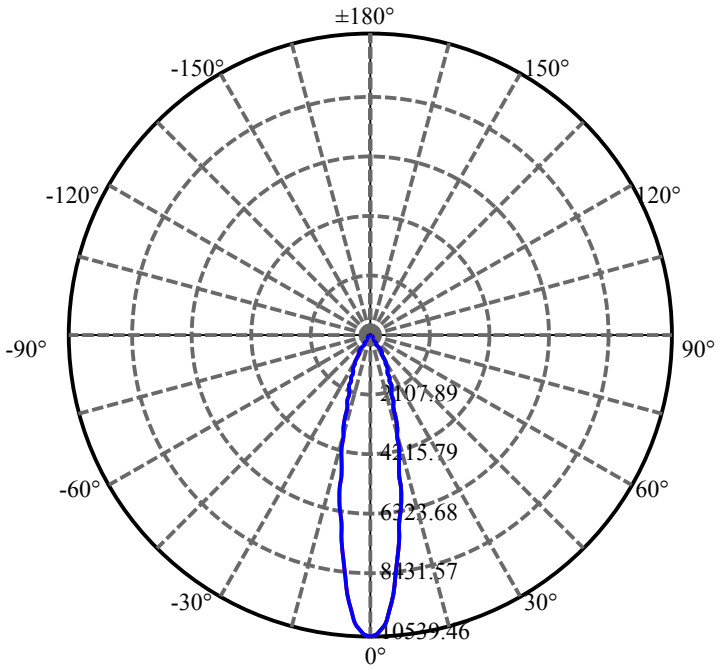
ZONAL LUMEN SUMMARY

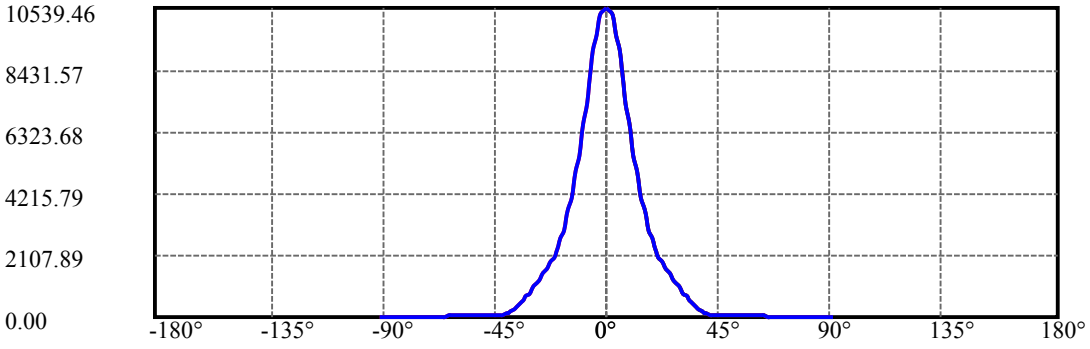
Zone	Lumens	%Lamp	%Fixt
0-30	2479.92	79.72%	85.31%
0-40	2750.77	88.42%	94.63%
0-60	2843.74	91.41%	97.83%
0-90	2905.45	93.39%	99.95%
0-120	2905.45	93.39%	99.95%
0-180	2906.80	93.44%	100.00%
60-90	61.71	1.98%	2.12%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.27	2325.44	74.75%	80.00%

ZONAL LUMEN SUMMARY

0-10	766.09
10-20	1027.52
20-30	686.31
30-40	270.85
40-50	53.92
50-60	39.05
60-70	28.89
70-80	19.31
80-90	13.51
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):

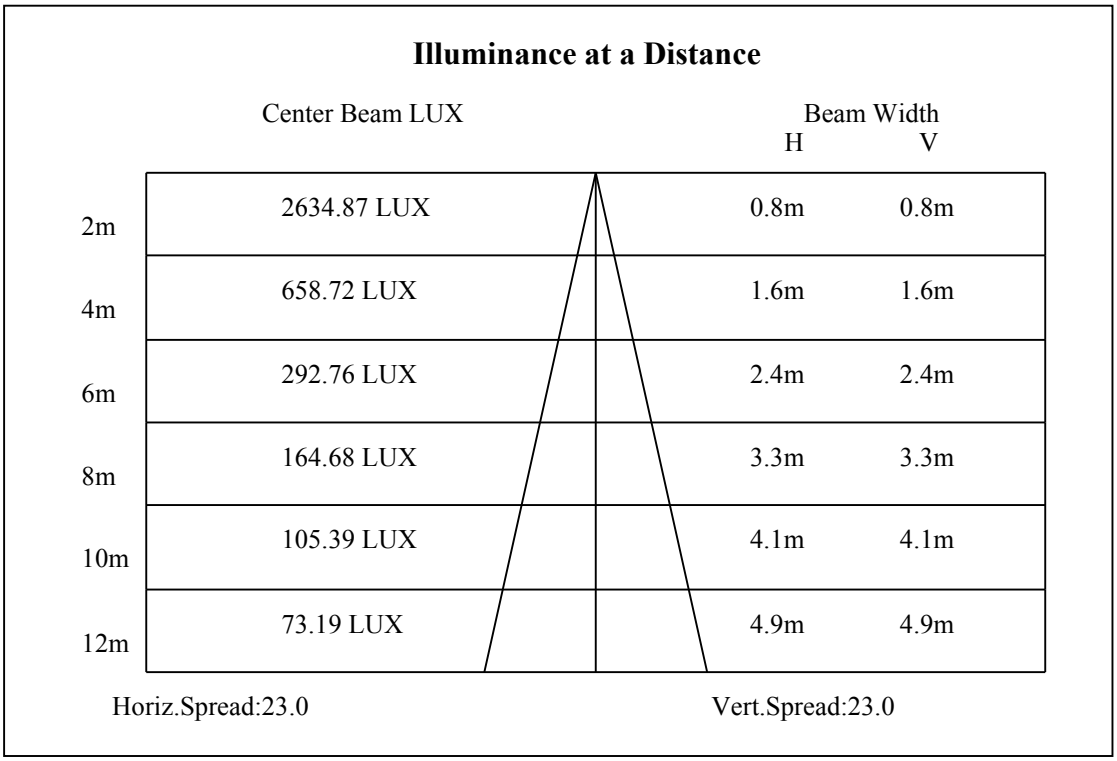
C0/C180:

C90/C270:

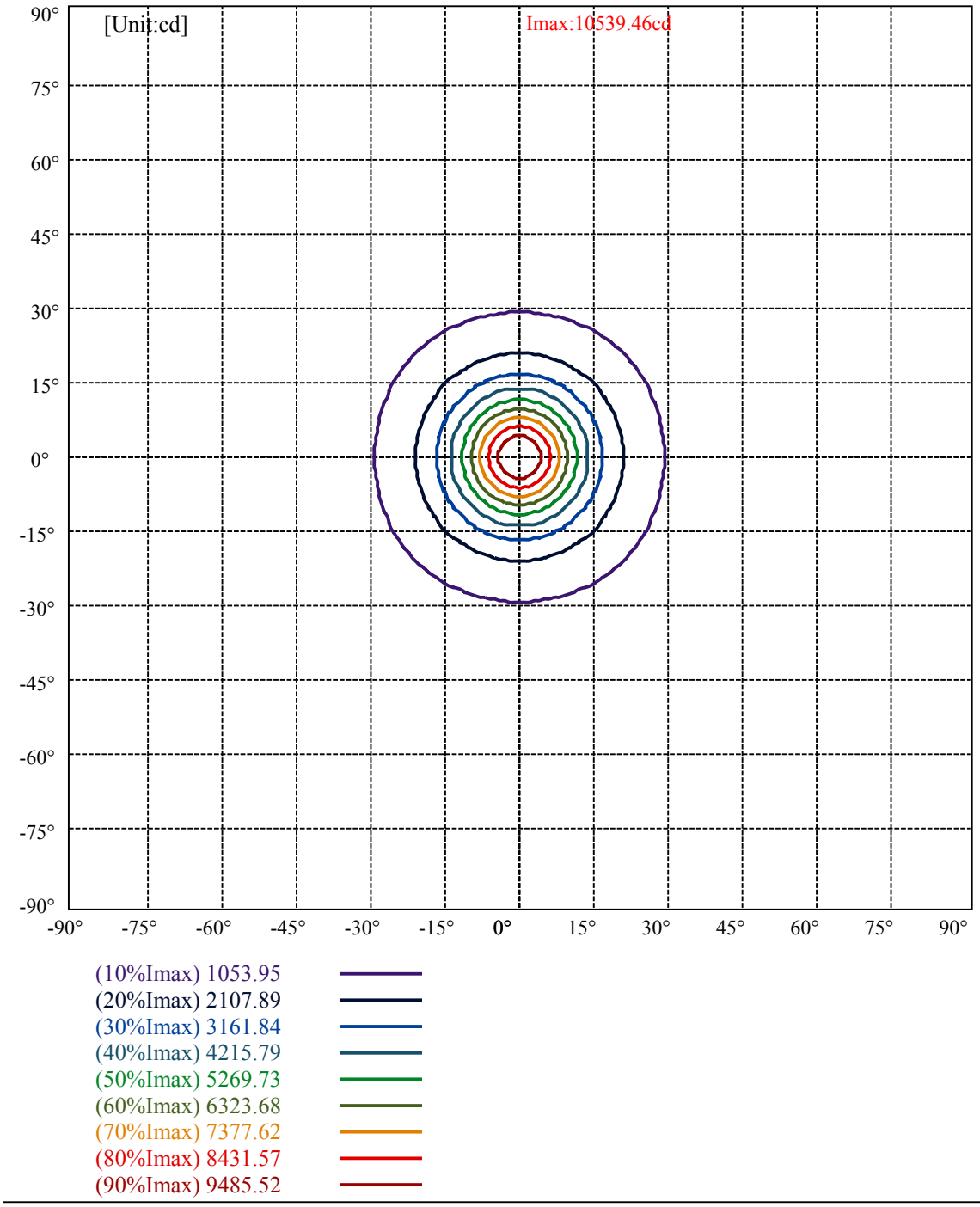
Field angle(10%Imax):C0/180Left:28.9 Right:28.9
:C90/270Left:28.9 Right:28.9

Beam Angle(50%Imax):C0/180Left:11.4 Right:11.4
:C90/270Left:11.4 Right:11.4

Lux distance Curve



ISO-Intensity(V-H)

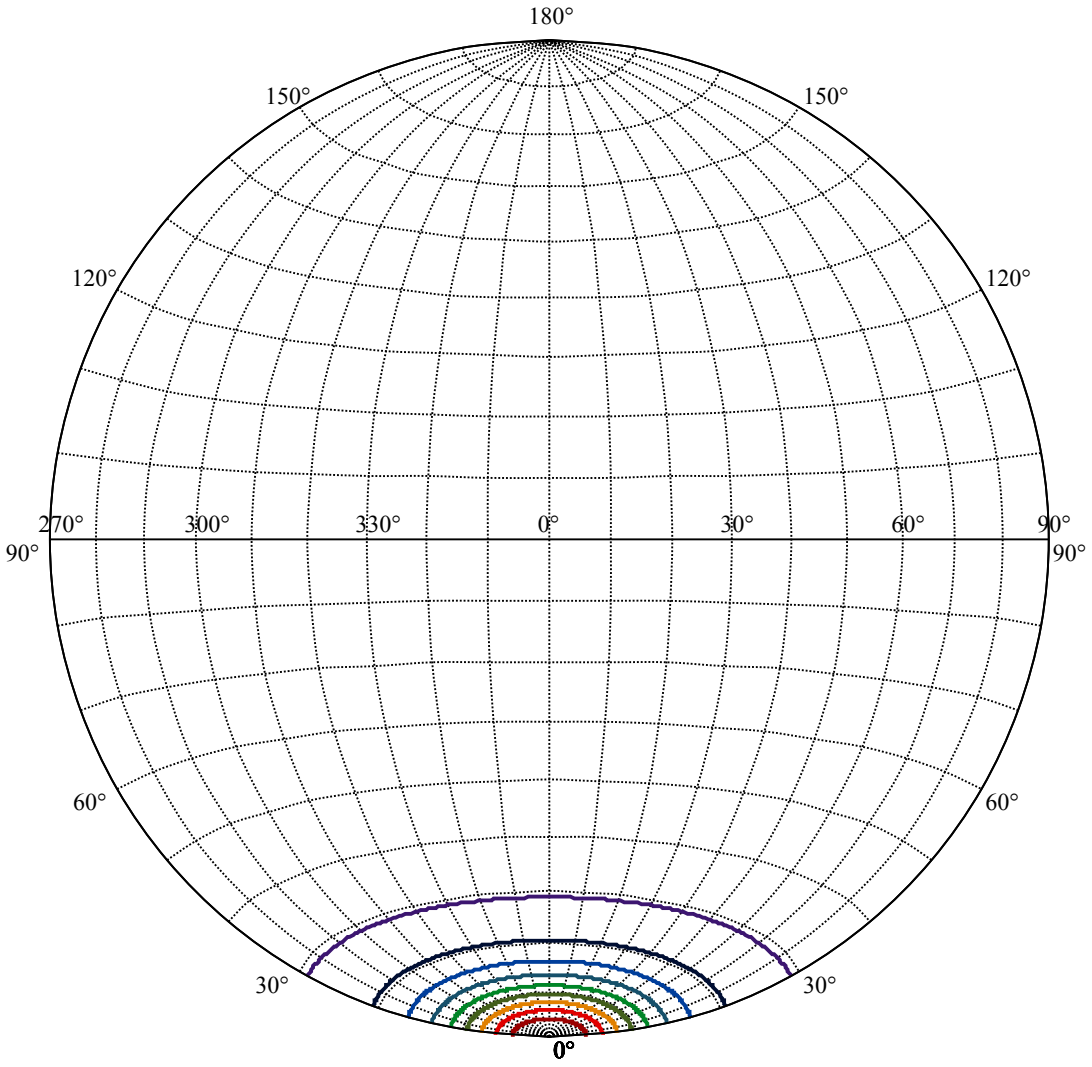


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/17
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



[Unit:cd]

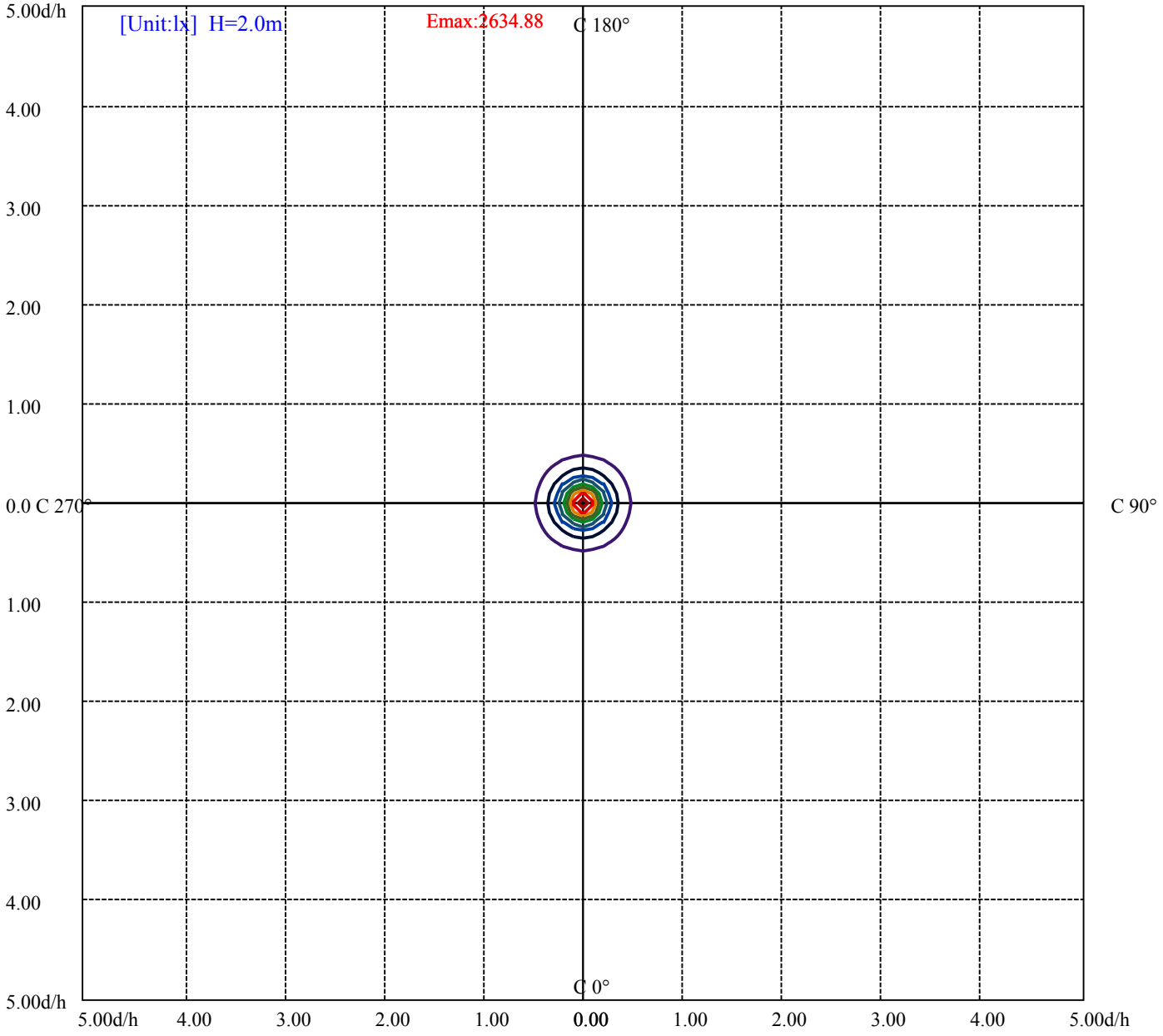
Imax:10539.46

(10%Imax) 1053.95
(20%Imax) 2107.89
(30%Imax) 3161.84
(40%Imax) 4215.79
(50%Imax) 5269.73
(60%Imax) 6323.68
(70%Imax) 7377.62
(80%Imax) 8431.57
(90%Imax) 9485.52

Equipment: GMS1980	Date: 2023/11/17	Operator: NT07
Temperature(°C): 0.0	Humidity(%): 0.0%	Distance(m): 7.44

NT 2-2639-L

ISO illuminance diagram



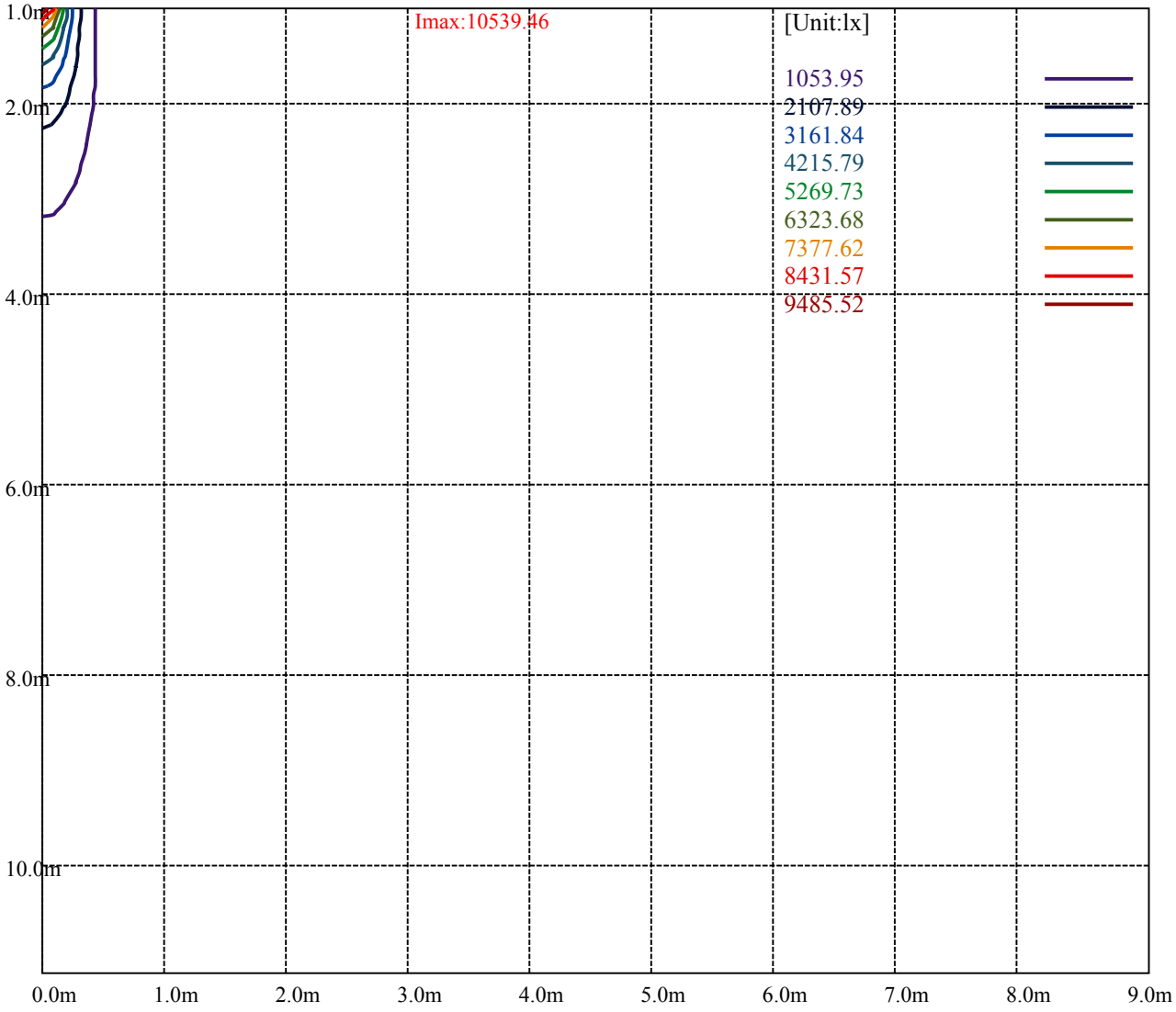
(10%Emax) 263.4875
(20%Emax) 526.9725
(30%Emax) 790.46
(40%Emax) 1053.945
(50%Emax) 1317.432
(60%Emax) 1580.917
(70%Emax) 1844.405
(80%Emax) 2107.893
(90%Emax) 2371.377

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/17
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/17
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

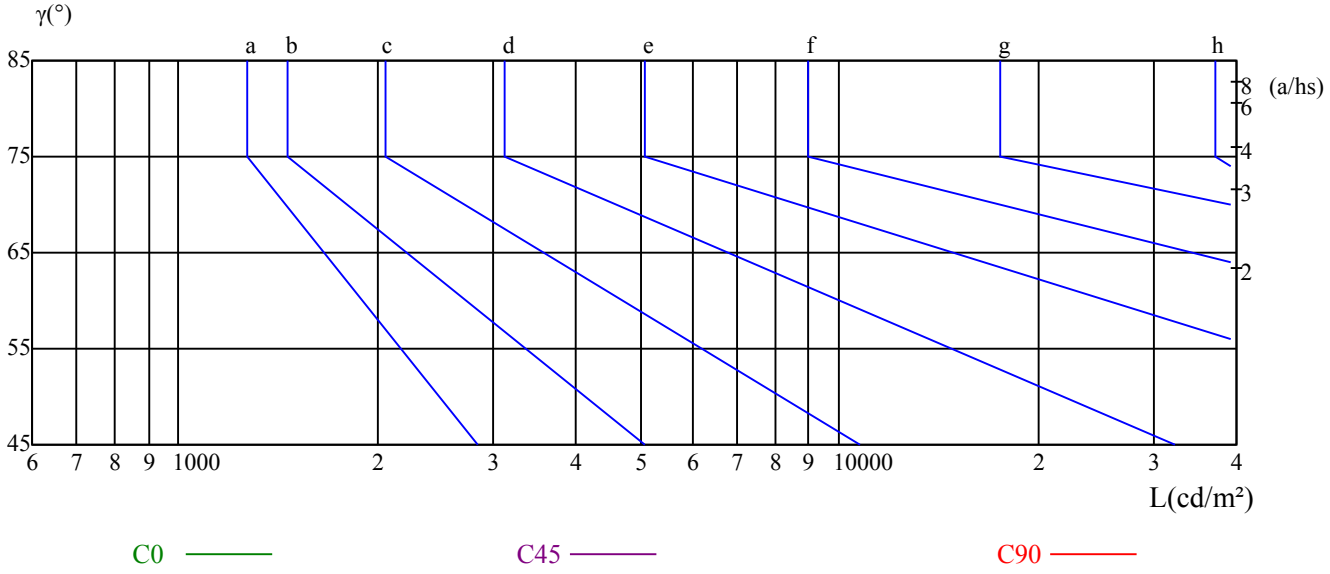
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

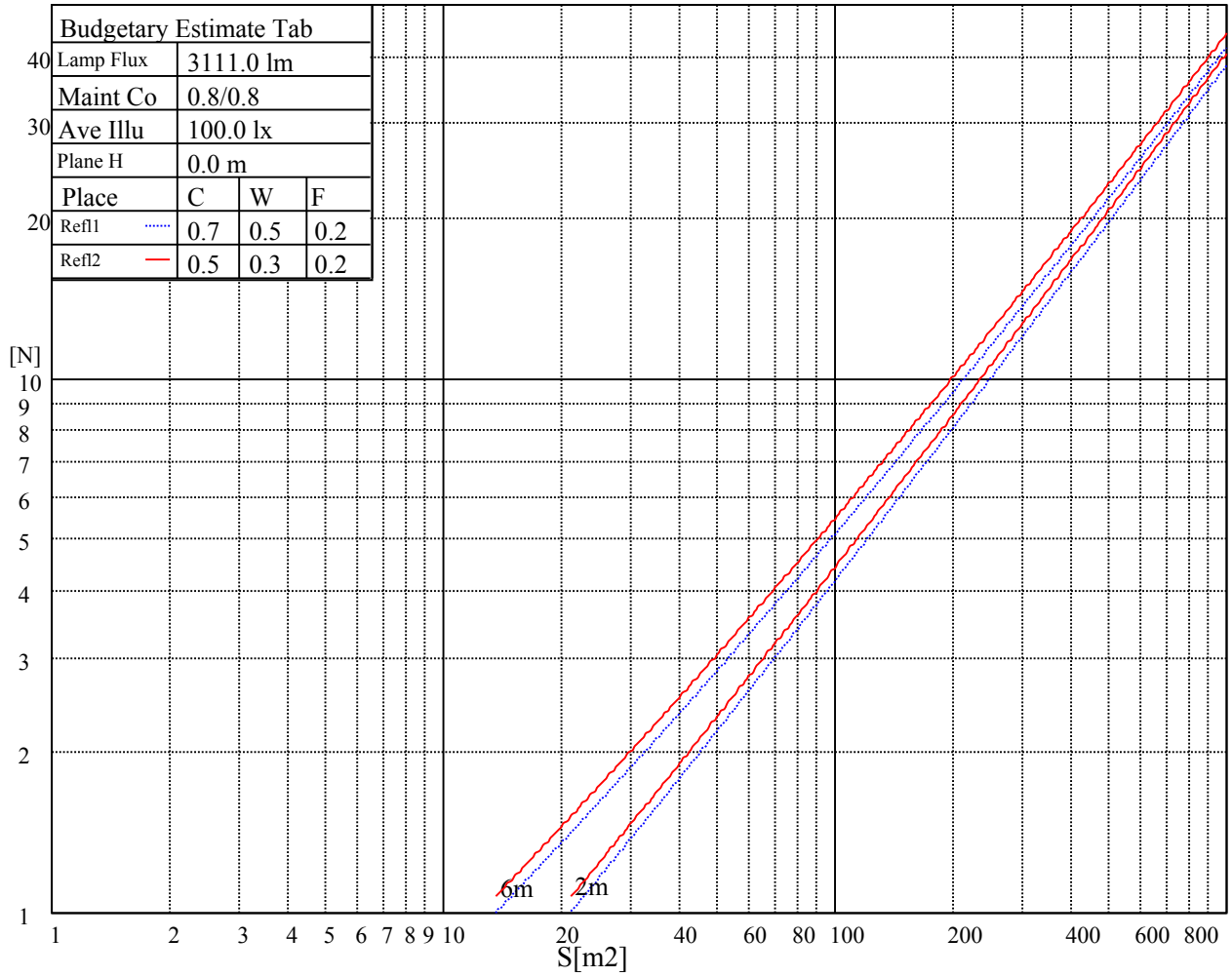
Luminance Limitting Curve



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

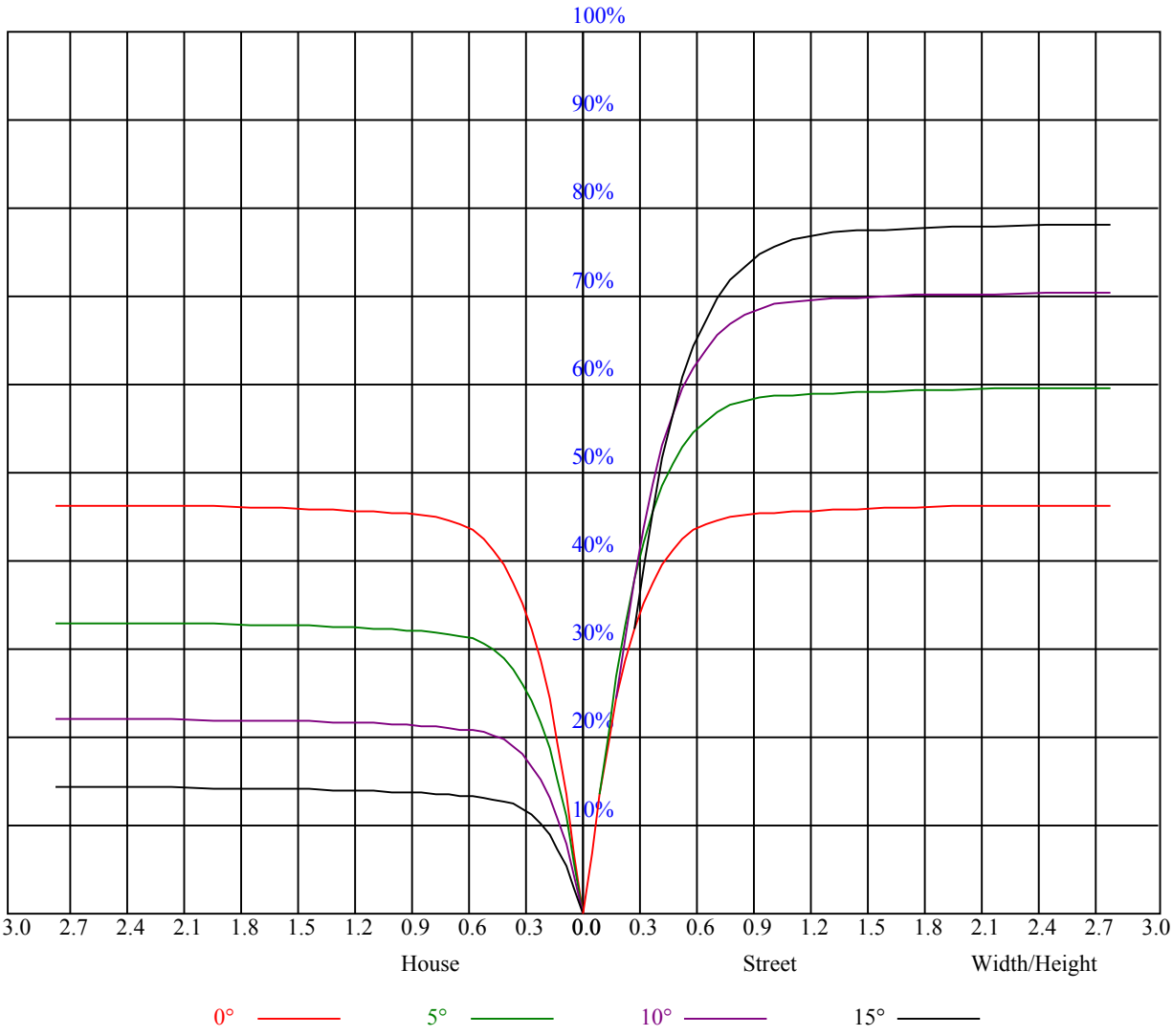


Equipment: GMS1980 Date: 2023/11/17 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.11	1.11	1.11	1.09	1.09	1.09	1.04	1.04	1.04	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	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	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	0.85	0.84
3	0.93	0.89	0.86	0.92	0.88	0.85	0.89	0.86	0.84	0.87	0.84	0.82	0.85	0.83	0.81	0.80
4	0.88	0.84	0.80	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.81	0.78	0.82	0.79	0.77	0.76
5	0.84	0.80	0.76	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
6	0.80	0.76	0.72	0.80	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
7	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
8	0.74	0.69	0.66	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
9	0.71	0.67	0.64	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.62
10	0.69	0.64	0.61	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/11/17	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	10446.88	10242.63	9885.05	9427.27	8725.39	8153.03	7551.34	6829.53	6254.40
45.0	10601.88	10480.65	10289.13	9958.11	9362.51	8828.90	8127.02	7518.68	6927.50
90.0	10468.47	10295.22	9893.90	9457.72	8927.43	8365.04	7645.44	7045.96	6457.55
135.0	10640.62	10539.88	10434.71	10172.88	9681.90	9177.63	8630.73	8088.82	7335.46
180.0	10446.88	10605.75	10635.09	10518.84	10353.34	9981.36	9545.17	9013.78	8296.95
225.0	10601.88	10666.09	10508.33	10300.20	9969.18	9413.43	8892.00	8316.88	7716.29
270.0	10468.47	10594.68	10657.23	10487.85	10200.01	9801.46	9347.56	8658.41	8089.38
315.0	10640.62	10593.57	10401.49	10157.94	9613.26	9107.88	8416.51	7812.05	7177.15
360.0	10446.88	10242.63	9885.05	9427.27	8725.39	8153.03	7551.34	6829.53	6254.40

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5569.13	5086.44	4653.02	4241.75	3754.08	3394.84	3072.12	2780.41	2474.86
45.0	6209.57	5677.62	5183.31	4643.61	4254.48	3852.61	3481.19	3071.02	2779.86
90.0	5891.28	5376.50	4803.59	4394.52	3899.11	3526.58	3202.76	2833.00	2574.50
135.0	6754.25	6169.71	5511.00	5034.41	4609.85	4114.43	3730.28	3370.48	2978.58
180.0	7716.85	7119.58	6410.50	5847.00	5193.83	4747.12	4343.60	3944.50	3492.26
225.0	6950.75	6397.22	5681.49	5173.90	4733.84	4227.35	3836.56	3482.85	3162.90
270.0	7464.99	6886.54	6183.55	5625.03	5116.89	4685.13	4285.48	3790.61	3440.23
315.0	6465.85	5897.37	5364.32	4888.28	4366.29	3969.96	3597.43	3269.74	2893.33
360.0	5569.13	5086.44	4653.02	4241.75	3754.08	3394.84	3072.12	2780.41	2474.86

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2260.09	2084.06	1896.97	1769.10	1663.38	1541.04	1443.62	1092.85	1092.85
45.0	2520.80	2292.75	2103.44	1904.72	1775.74	1635.70	1536.06	1436.98	1299.15
90.0	2350.31	2111.74	1947.34	1808.96	1687.18	1558.76	1462.44	1355.61	1096.94
135.0	2715.65	2479.84	2275.03	2060.26	1915.79	1785.15	1673.89	1544.37	1444.73
180.0	3166.23	2870.08	2607.71	2381.31	2147.72	1987.75	1852.13	1704.89	1599.17
225.0	2806.43	2553.46	2337.58	2157.13	1971.14	1838.29	1723.16	1594.74	1500.08
270.0	3116.41	2779.30	2526.34	2254.00	2086.83	1945.13	1776.85	1672.79	1579.79
315.0	2633.72	2408.99	2172.08	2011.00	1873.72	1725.93	1624.07	1529.97	1405.43
360.0	2260.09	2084.06	1896.97	1769.10	1663.38	1541.04	1443.62	1092.85	1092.85

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1065.78	959.28	853.17	723.97	624.94	528.68	437.18	333.95	261.44
45.0	1185.12	1069.43	934.37	832.52	727.90	626.05	510.36	421.79	342.09
90.0	1096.94	991.72	881.06	751.54	645.31	521.65	432.98	353.27	260.72
135.0	1325.72	1181.80	1068.32	929.39	822.55	715.72	612.76	495.97	405.19
180.0	1479.60	1370.00	1255.97	1109.84	997.47	886.76	779.93	650.40	555.20
225.0	1392.14	1098.71	1098.71	1015.63	875.53	766.98	666.40	567.60	449.80
270.0	1478.49	1339.00	1224.98	1109.29	996.92	853.55	746.17	639.89	517.56
315.0	1087.75	1087.75	1061.02	920.25	813.75	703.38	605.07	485.84	399.27
360.0	1065.78	959.28	853.17	723.97	624.94	528.68	437.18	333.95	261.44

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	197.61	139.16	112.59	100.02	87.79	80.82	73.12	67.59	62.94
45.0	286.18	286.18	140.10	112.15	95.71	85.91	77.50	71.24	65.98
90.0	196.73	149.29	116.35	96.81	86.74	79.16	72.79	66.76	60.78
135.0	322.71	286.18	286.18	130.41	107.39	94.99	83.20	76.17	68.08
180.0	462.76	379.17	282.30	282.30	201.76	121.56	100.13	89.34	81.04
225.0	366.27	290.55	223.74	157.92	122.17	104.78	91.00	82.70	74.06
270.0	428.44	345.96	292.27	292.27	138.11	115.08	102.90	91.89	83.75
315.0	318.84	235.14	179.40	134.90	110.10	98.70	88.73	79.65	73.29
360.0	197.61	139.16	112.59	100.02	87.79	80.82	73.12	67.59	62.94

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	59.12	55.35	52.64	50.32	47.83	46.33	45.06	44.06	43.29
45.0	61.55	57.07	54.25	51.64	49.38	46.94	45.33	44.17	43.23
90.0	56.74	52.92	50.32	48.10	45.78	44.23	43.07	41.90	41.35
135.0	62.99	58.67	54.36	51.48	48.99	46.33	44.67	43.34	42.29
180.0	72.51	66.76	61.00	57.18	54.19	51.59	48.77	46.88	45.33
225.0	68.31	63.44	58.45	55.41	52.64	50.21	47.60	45.94	44.67
270.0	75.17	69.36	64.49	60.45	56.29	53.53	50.59	48.55	46.83
315.0	67.75	63.32	58.79	55.74	53.14	50.76	48.27	46.55	44.95
360.0	59.12	55.35	52.64	50.32	47.83	46.33	45.06	44.06	43.29

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	42.90	43.07	43.01	42.79	42.29	40.57	38.42	35.65	32.38
45.0	42.46	42.23	42.35	42.40	42.35	41.85	40.46	38.36	34.93
90.0	41.29	41.24	41.40	41.40	41.07	40.30	38.08	35.76	32.60
135.0	41.52	41.13	41.02	41.07	41.40	41.40	40.80	38.91	36.64
180.0	44.12	43.07	42.46	42.23	42.35	42.35	42.29	41.63	40.63
225.0	43.73	43.07	42.90	43.07	43.12	43.12	42.57	40.96	38.53
270.0	45.28	44.39	43.84	43.56	43.40	43.12	42.90	41.74	40.08
315.0	44.01	43.51	43.29	43.29	43.18	42.73	41.74	39.85	37.42
360.0	42.90	43.07	43.01	42.79	42.29	40.57	38.42	35.65	32.38

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	28.56	26.40	24.69	23.58	22.47	21.70	21.03	20.20	19.65
45.0	31.77	28.67	26.40	24.74	23.30	22.47	21.75	20.92	20.31
90.0	28.95	26.29	24.24	23.14	22.25	21.37	20.70	20.09	19.54
135.0	32.94	29.84	26.96	25.19	23.47	22.58	21.81	21.09	20.31
180.0	38.03	34.93	31.66	28.78	26.51	24.52	23.47	22.64	21.86
225.0	34.71	31.33	28.23	26.13	24.52	23.25	22.42	21.70	21.03
270.0	37.64	34.65	30.83	27.84	26.02	24.13	23.19	22.20	21.42
315.0	33.43	30.22	27.29	25.57	23.80	22.86	22.03	21.15	20.48
360.0	28.56	26.40	24.69	23.58	22.47	21.70	21.03	20.20	19.65

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.10	18.43	17.99	17.38	16.94	16.44	16.05	15.44	15.00
45.0	19.54	18.99	18.49	17.88	17.38	16.94	16.50	15.94	15.50
90.0	18.99	18.38	17.93	17.44	16.99	16.50	16.05	15.50	15.00
135.0	19.76	19.21	18.71	18.10	17.66	17.10	16.66	16.22	15.72
180.0	20.98	20.37	19.65	19.10	18.54	17.93	17.44	16.99	16.50
225.0	20.26	19.65	19.10	18.43	17.93	17.38	16.88	16.44	15.89
270.0	20.76	20.15	19.43	18.82	18.27	17.82	17.16	16.72	16.27
315.0	19.76	19.15	18.60	18.10	17.49	16.99	16.55	16.11	15.55
360.0	19.10	18.43	17.99	17.38	16.94	16.44	16.05	15.44	15.00

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.56	14.12	13.67	13.34	13.06	12.79	12.45	12.23	12.23
45.0	15.06	14.45	14.06	13.56	13.23	12.95	12.62	12.29	12.23
90.0	14.61	14.12	13.67	13.34	13.01	12.73	12.45	12.23	12.12
135.0	15.28	14.67	14.17	13.78	13.40	13.06	12.79	12.45	12.18
180.0	16.00	15.50	15.11	14.56	14.06	13.67	13.34	12.95	12.68
225.0	15.44	14.95	14.56	14.06	13.67	13.28	12.95	12.62	12.34
270.0	15.83	15.28	14.72	14.28	13.84	13.45	13.12	12.73	12.45
315.0	15.17	14.61	14.17	13.84	13.45	13.12	12.79	12.51	12.18
360.0	14.56	14.12	13.67	13.34	13.06	12.79	12.45	12.23	12.23

Intensity data(cd)

C/γ(°)	90.0
0.0	12.29
45.0	12.18
90.0	12.18
135.0	12.12
180.0	12.34
225.0	12.12
270.0	12.18
315.0	12.12
360.0	12.29