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: 2-2639-L
Luminaire: 92.70.411.00
Report No: 20231027-B006
Ballast type: AC

Test No: 20231027-C006	Voltage(V): 34.630
LampCAT: Fortimo_SLM_C_1208	Current(A): 0.600
Lamp flux(lm): 3391.2	Power (W): 20.778
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3195.98, Efficiency(%): 94.24% , Luminous Efficacy(lm/W): 153.82
Central intensity(cd): 12151.500, Maximum intensity(cd): 12151.500
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=22.0
[C90/270]Total=22.0
Field angle(10%Imax): [C0/180]Total=55.8
[C90/270]Total=55.8
Beam angle of C0 plane : 21.97
Aveage BeamAngle(IEC 61341):21.97
Maximum s/h(1/2): C0_180=0.37 C90_270=0.37
Maximum s/h(1/4): C0_180=0.42 C90_270=0.42
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.24%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.976%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12151.499	0.000	0	0.00%	0.00%
1.0	12057.398	11.584	11.584	0.34%	0.36%
2.0	11722.232	34.131	45.714	1.01%	1.43%
3.0	11341.053	55.160	100.874	1.63%	3.16%
4.0	10976.480	74.704	175.578	2.20%	5.49%
5.0	10396.444	91.945	267.523	2.71%	8.37%
6.0	9730.886	105.774	373.298	3.12%	11.68%
7.0	8977.039	116.120	489.417	3.42%	15.31%
8.0	8200.013	122.933	612.35	3.63%	19.16%
9.0	7475.850	127.044	739.395	3.75%	23.14%
10.0	6743.106	128.676	868.071	3.79%	27.16%
11.0	6065.717	127.986	996.057	3.77%	31.17%
12.0	5480.422	126.216	1122.273	3.72%	35.12%
13.0	4913.186	123.346	1245.619	3.64%	38.97%
14.0	4419.431	119.457	1365.076	3.52%	42.71%
15.0	3979.993	115.311	1480.387	3.40%	46.32%
16.0	3585.114	110.850	1591.237	3.27%	49.79%
17.0	3209.678	105.813	1697.05	3.12%	53.10%
18.0	2919.972	101.065	1798.115	2.98%	56.26%
19.0	2708.382	97.922	1896.037	2.89%	59.33%
20.0	2538.585	96.034	1992.071	2.83%	62.33%
21.0	2318.624	93.268	2085.339	2.75%	65.25%
22.0	2046.976	87.729	2173.067	2.59%	67.99%
23.0	1897.175	82.759	2255.826	2.44%	70.58%
24.0	1756.301	79.878	2335.704	2.36%	73.08%
25.0	1621.099	76.795	2412.499	2.26%	75.49%
26.0	1485.483	73.331	2485.83	2.16%	77.78%
27.0	1337.627	69.068	2554.898	2.04%	79.94%
28.0	1204.653	64.365	2619.264	1.90%	81.95%
29.0	1118.572	60.782	2680.046	1.79%	83.86%
30.0	1001.783	57.249	2737.295	1.69%	85.65%
31.0	881.997	52.423	2789.718	1.55%	87.29%
32.0	763.008	47.127	2836.845	1.39%	88.76%
33.0	654.854	41.771	2878.616	1.23%	90.07%
34.0	546.748	36.364	2914.98	1.07%	91.21%
35.0	453.291	31.058	2946.037	0.92%	92.18%
36.0	368.468	26.165	2972.202	0.77%	93.00%
37.0	299.428	21.783	2993.985	0.64%	93.68%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	249.866	18.335	3012.32	0.54%	94.25%
39.0	207.285	15.604	3027.924	0.46%	94.74%
40.0	161.729	12.870	3040.794	0.38%	95.14%
41.0	115.357	9.867	3050.661	0.29%	95.45%
42.0	94.668	7.631	3058.291	0.23%	95.69%
43.0	79.045	6.435	3064.726	0.19%	95.89%
44.0	67.891	5.546	3070.272	0.16%	96.07%
45.0	59.955	4.913	3075.185	0.14%	96.22%
46.0	54.516	4.477	3079.662	0.13%	96.36%
47.0	50.088	4.160	3083.822	0.12%	96.49%
48.0	46.857	3.919	3087.741	0.12%	96.61%
49.0	44.324	3.744	3091.486	0.11%	96.73%
50.0	42.415	3.616	3095.102	0.11%	96.84%
51.0	40.976	3.528	3098.63	0.10%	96.95%
52.0	40.055	3.477	3102.107	0.10%	97.06%
53.0	39.516	3.461	3105.569	0.10%	97.17%
54.0	39.446	3.480	3109.049	0.10%	97.28%
55.0	39.813	3.538	3112.587	0.10%	97.39%
56.0	40.304	3.620	3116.207	0.11%	97.50%
57.0	40.844	3.710	3119.918	0.11%	97.62%
58.0	41.024	3.786	3123.704	0.11%	97.74%
59.0	40.678	3.820	3127.523	0.11%	97.86%
60.0	39.502	3.788	3131.311	0.11%	97.98%
61.0	37.627	3.681	3134.992	0.11%	98.09%
62.0	35.122	3.505	3138.497	0.10%	98.20%
63.0	32.327	3.280	3141.778	0.10%	98.30%
64.0	29.697	3.043	3144.821	0.09%	98.40%
65.0	27.615	2.836	3147.657	0.08%	98.49%
66.0	25.843	2.667	3150.325	0.08%	98.57%
67.0	24.452	2.529	3152.854	0.07%	98.65%
68.0	23.428	2.425	3155.279	0.07%	98.73%
69.0	22.550	2.346	3157.625	0.07%	98.80%
70.0	21.789	2.277	3159.902	0.07%	98.87%
71.0	21.069	2.215	3162.117	0.07%	98.94%
72.0	20.425	2.158	3164.275	0.06%	99.01%
73.0	19.837	2.105	3166.38	0.06%	99.07%
74.0	19.311	2.058	3168.438	0.06%	99.14%
75.0	18.841	2.016	3170.454	0.06%	99.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	18.377	1.976	3172.43	0.06%	99.26%
77.0	17.928	1.936	3174.365	0.06%	99.32%
78.0	17.512	1.897	3176.262	0.06%	99.38%
79.0	17.111	1.860	3178.123	0.05%	99.44%
80.0	16.689	1.822	3179.945	0.05%	99.50%
81.0	16.239	1.781	3181.726	0.05%	99.55%
82.0	15.803	1.738	3183.463	0.05%	99.61%
83.0	15.340	1.693	3185.156	0.05%	99.66%
84.0	14.973	1.651	3186.808	0.05%	99.71%
85.0	14.606	1.614	3188.422	0.05%	99.76%
86.0	14.267	1.578	3190	0.05%	99.81%
87.0	13.935	1.543	3191.544	0.05%	99.86%
88.0	13.603	1.509	3193.052	0.04%	99.91%
89.0	13.319	1.476	3194.528	0.04%	99.95%
90.0	13.202	1.454	3195.982	0.04%	100.00%

Zonal flux distribution table

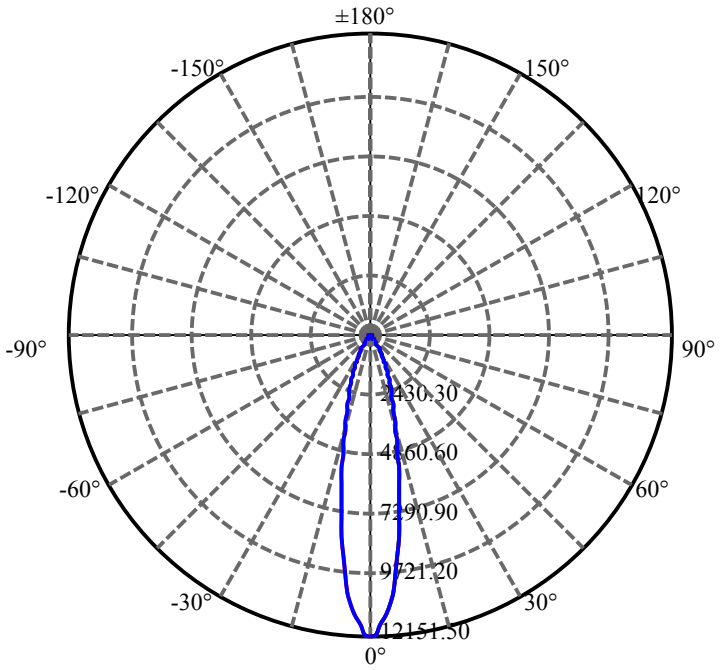
ZONAL LUMEN SUMMARY

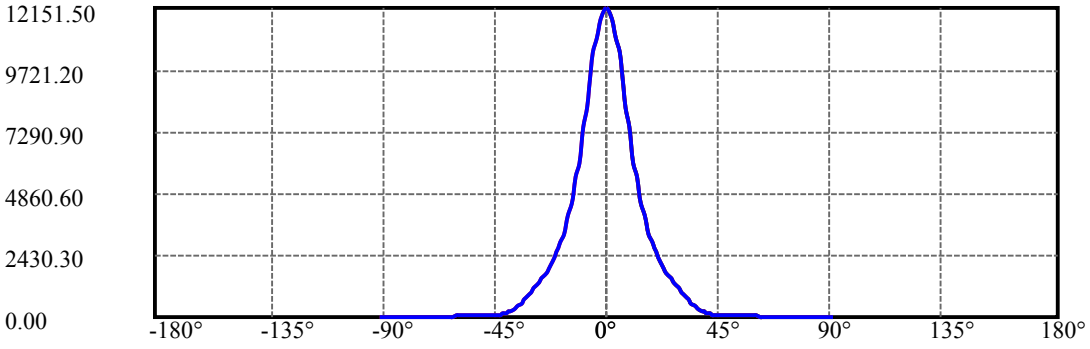
Zone	Lumens	%Lamp	%Fixt
0-30	2737.29	80.72%	85.65%
0-40	3040.79	89.67%	95.14%
0-60	3131.31	92.34%	97.98%
0-90	3194.53	94.20%	99.95%
0-120	3194.53	94.20%	99.95%
0-180	3195.98	94.24%	100.00%
60-90	63.22	1.86%	1.98%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.03	2556.79	75.39%	80.00%

ZONAL LUMEN SUMMARY

0-10	868.07
10-20	1124.00
20-30	745.22
30-40	303.50
40-50	54.31
50-60	36.21
60-70	28.59
70-80	20.04
80-90	14.58
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):

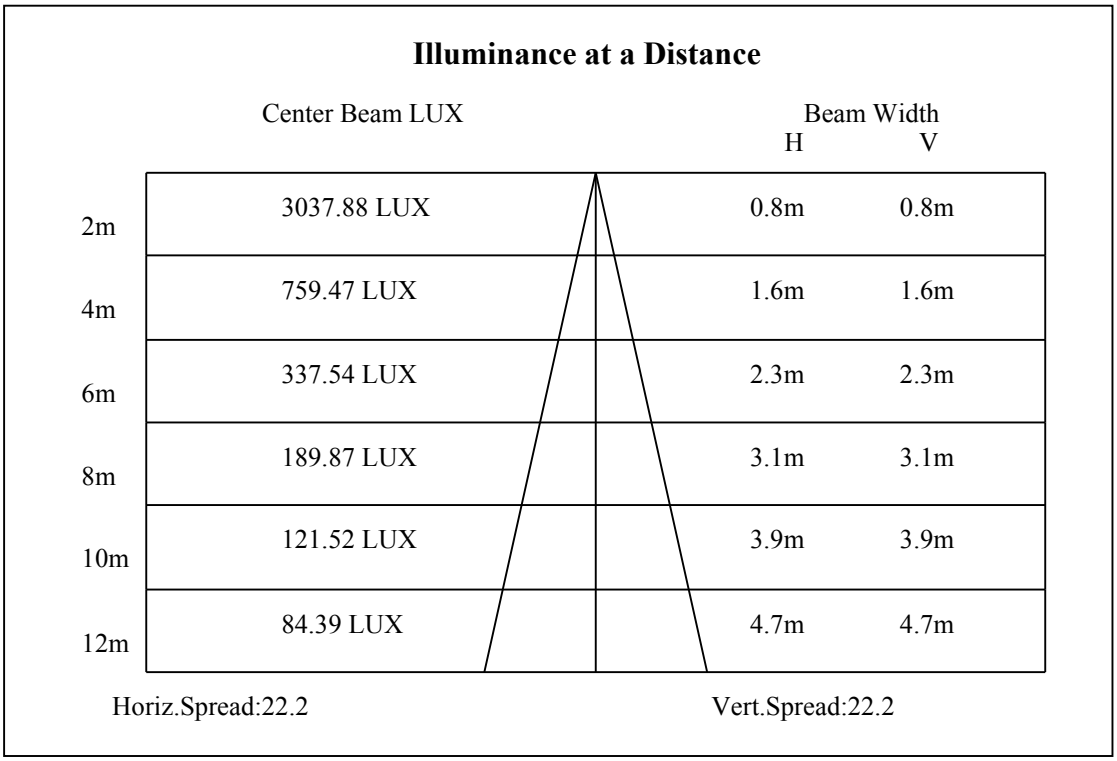
C0/C180:

C90/C270:

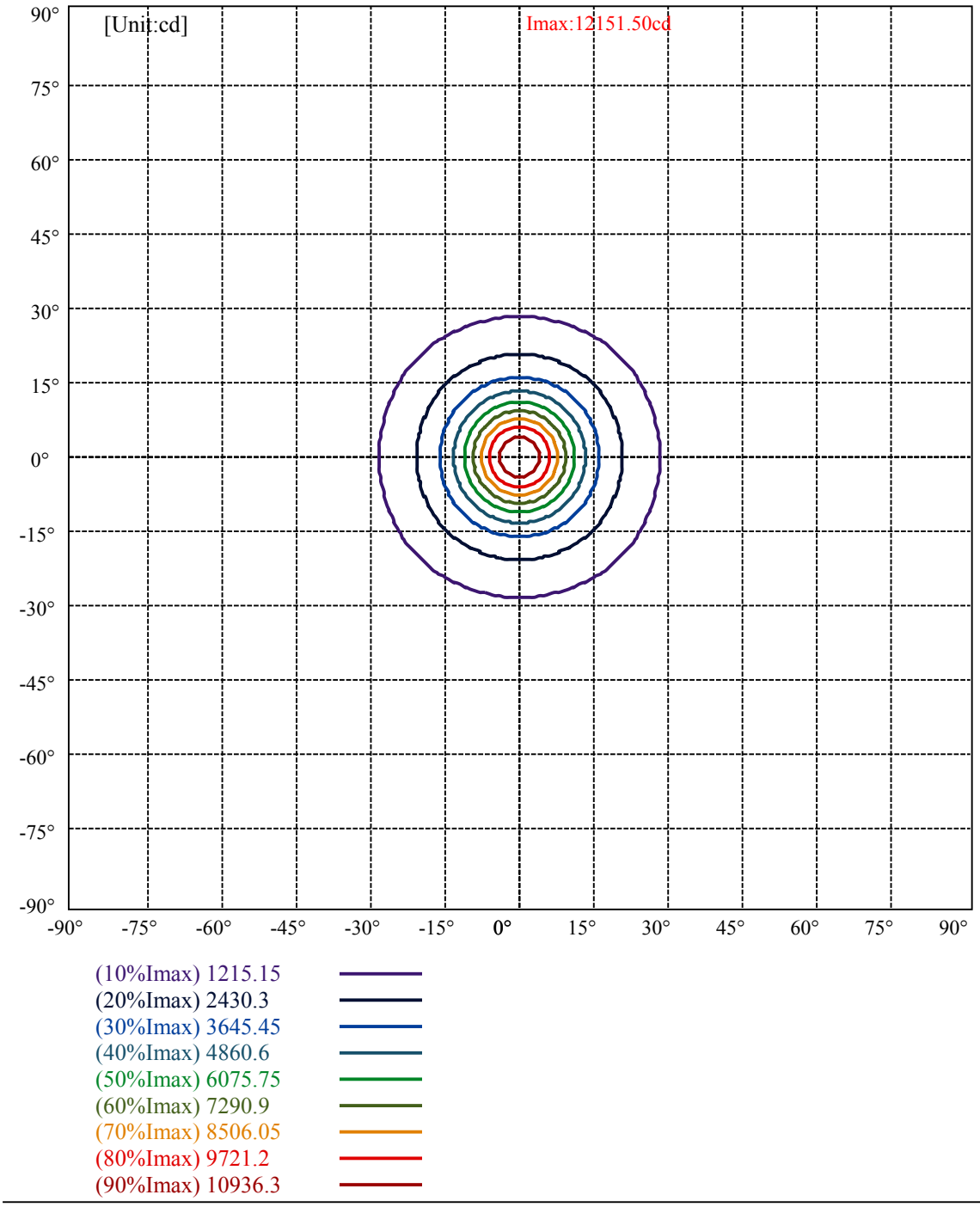
Field angle(10%Imax):C0/180Left:27.9 Right:27.9
:C90/270Left:27.9 Right:27.9

Beam Angle(50%Imax):C0/180Left:11.0 Right:11.0
:C90/270Left:11.0 Right:11.0

Lux distance Curve



ISO-Intensity(V-H)

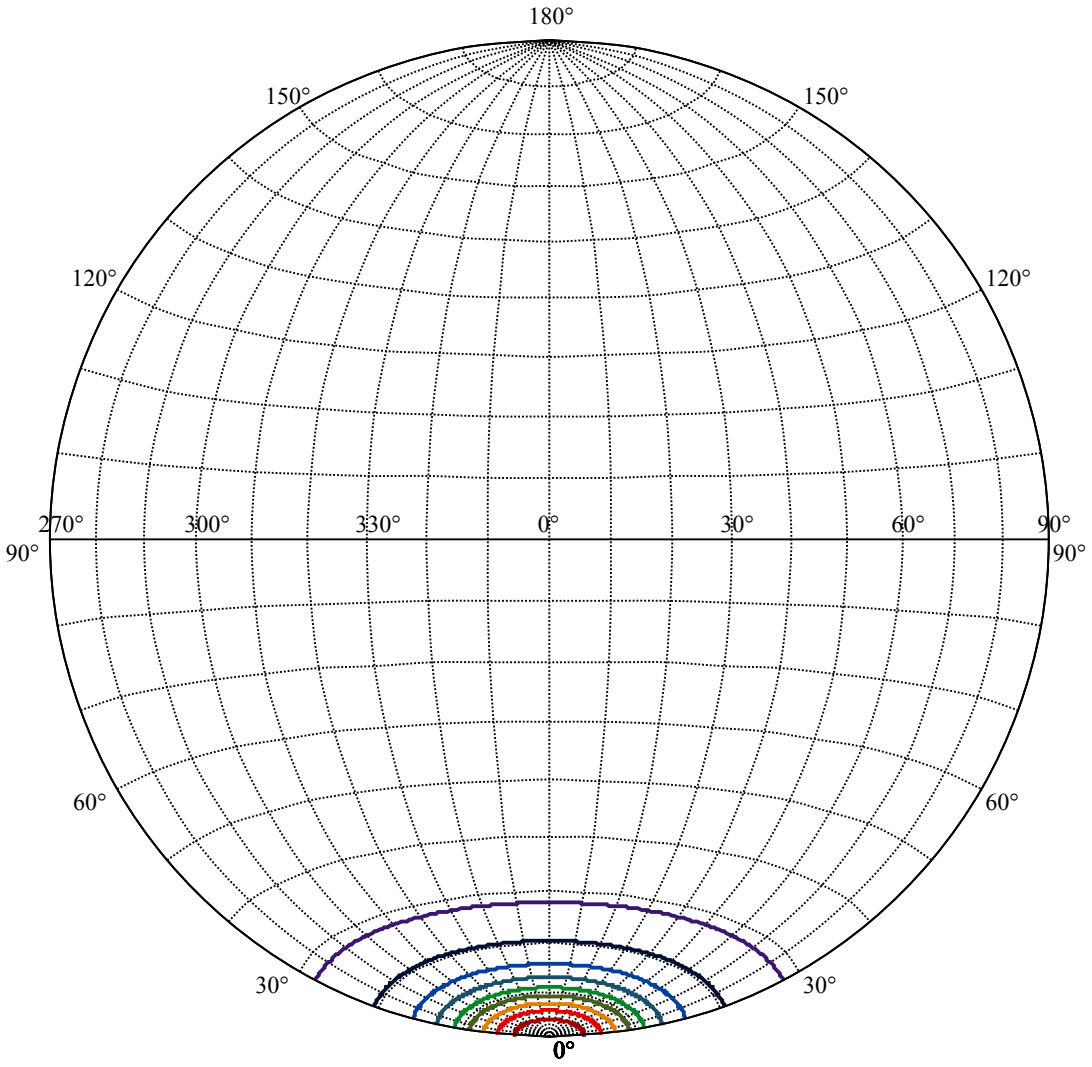


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/27
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



[Unit:cd]

Imax:12151.50

(10%Imax) 1215.15
(20%Imax) 2430.3
(30%Imax) 3645.45
(40%Imax) 4860.6
(50%Imax) 6075.75
(60%Imax) 7290.9
(70%Imax) 8506.05
(80%Imax) 9721.2
(90%Imax) 10936.3

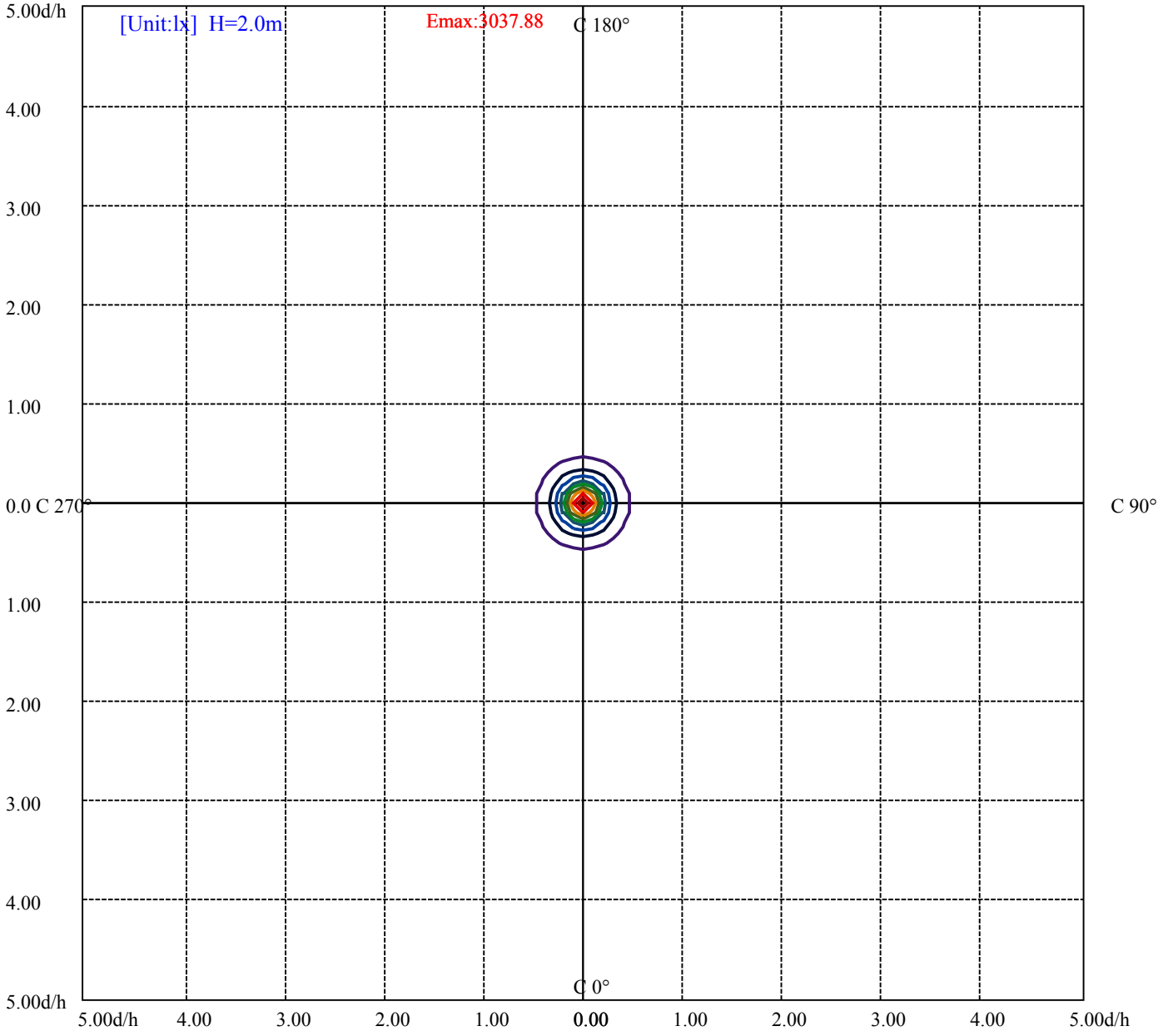
Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/27
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 2-2639-L

ISO illuminance diagram

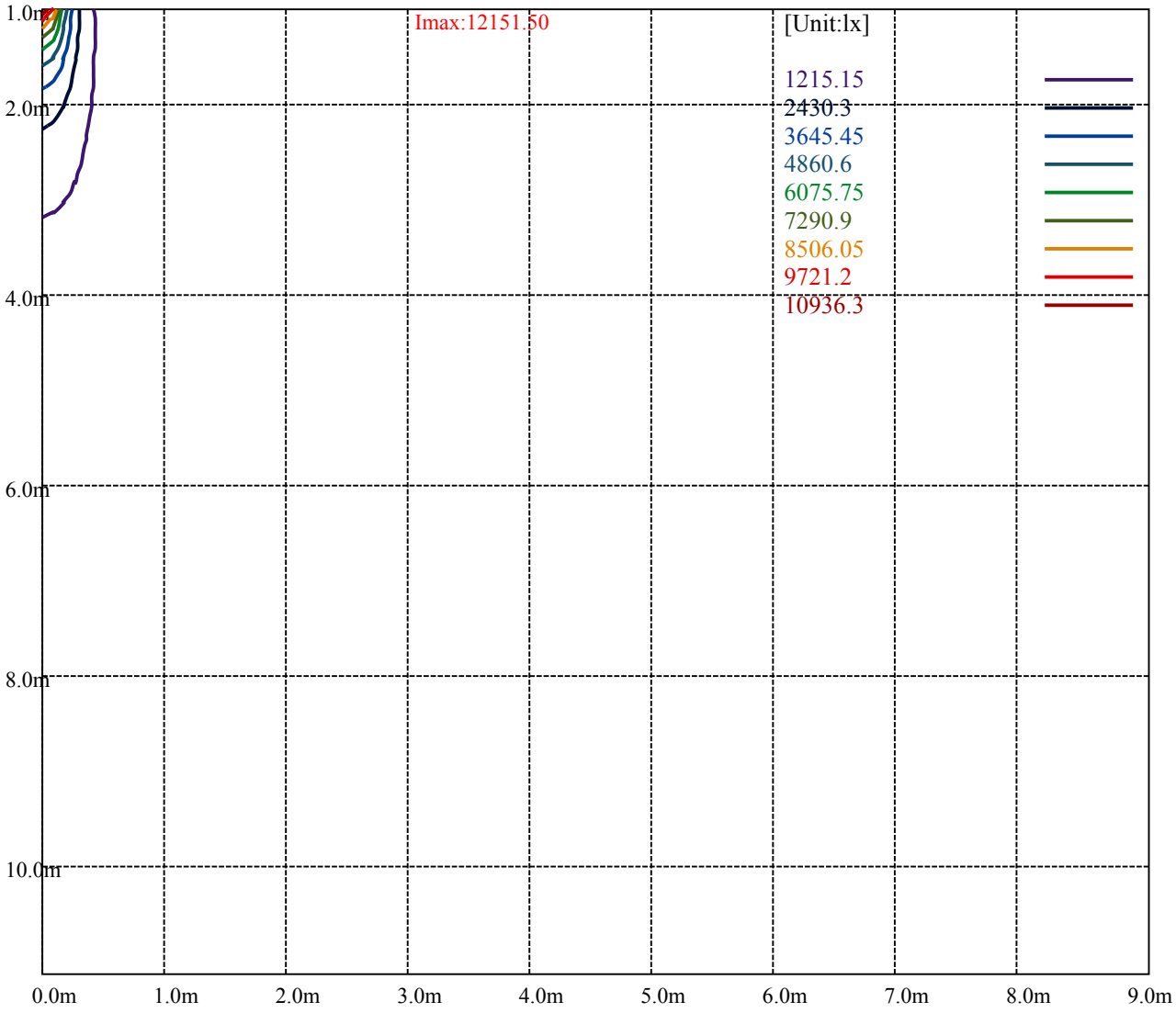


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/27
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/27
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 2-2639-L

Luminance Limitting Curve(no luminous side)

Luminance Table

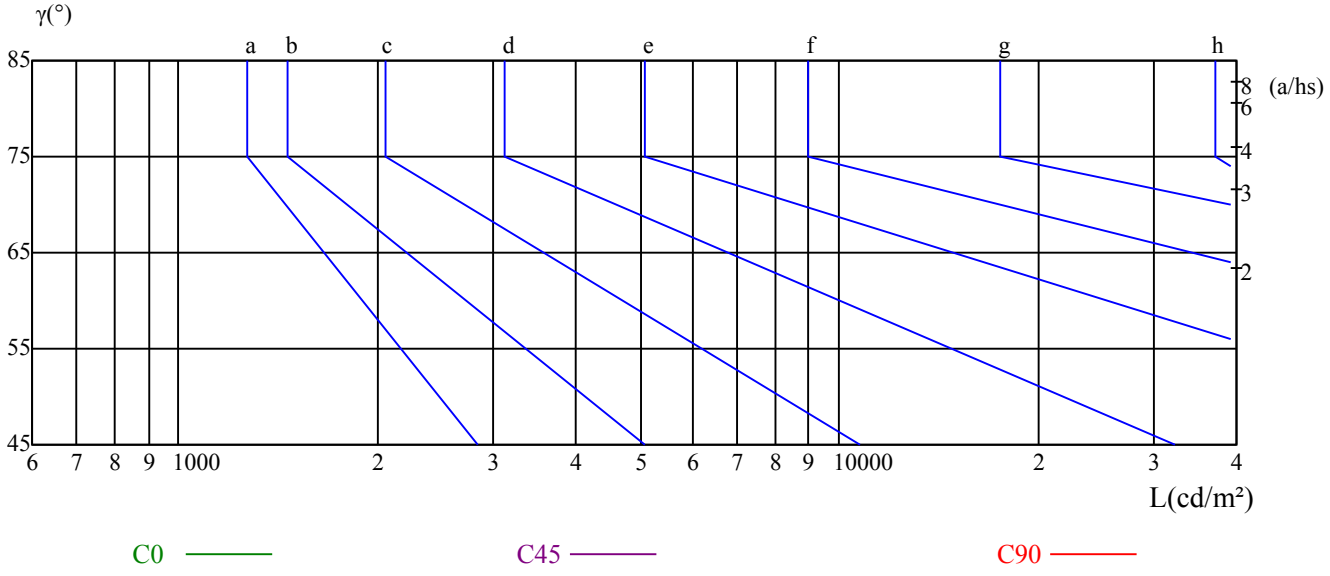
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

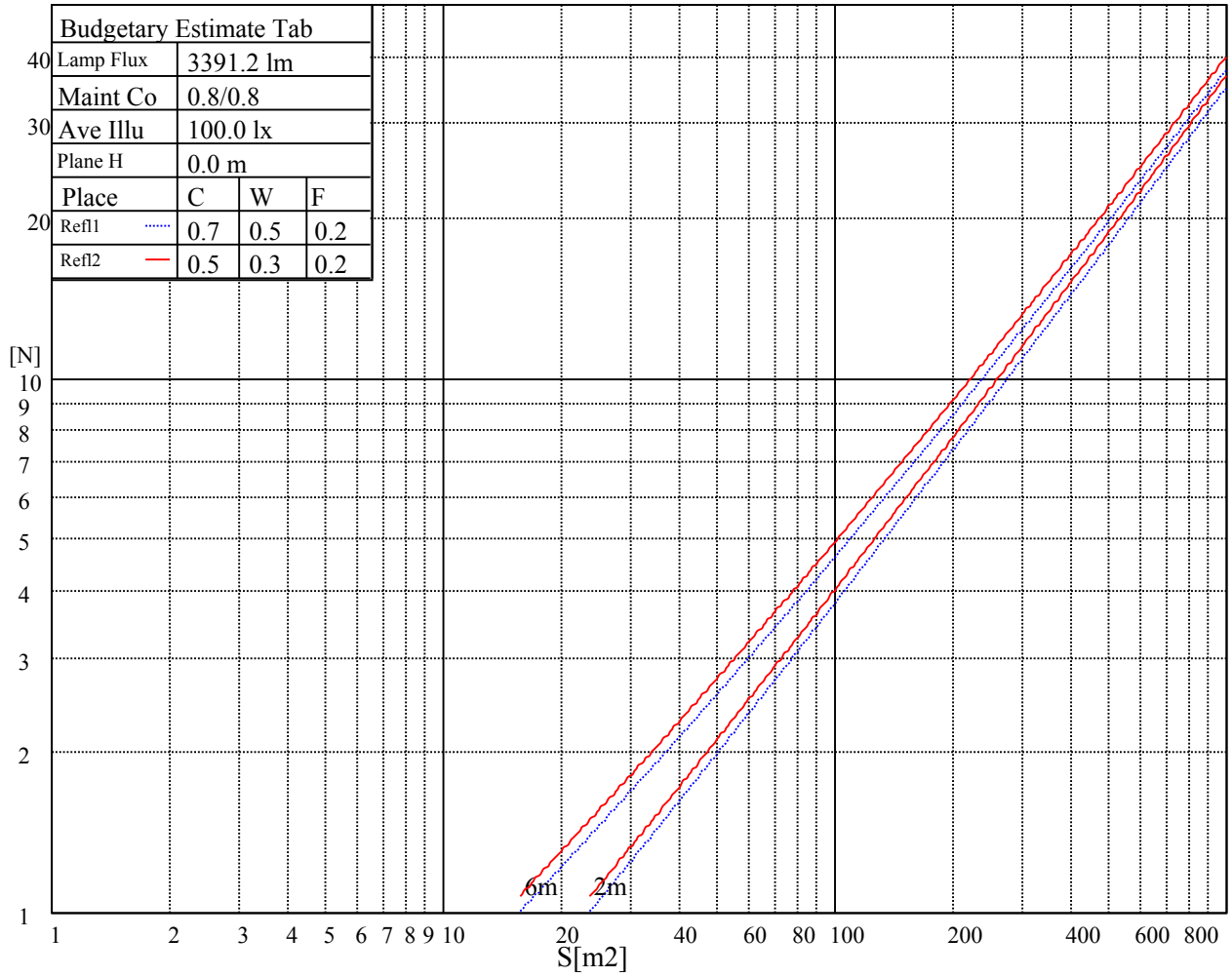
Date: 2023/10/27
Humidity(%): 0.0%

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

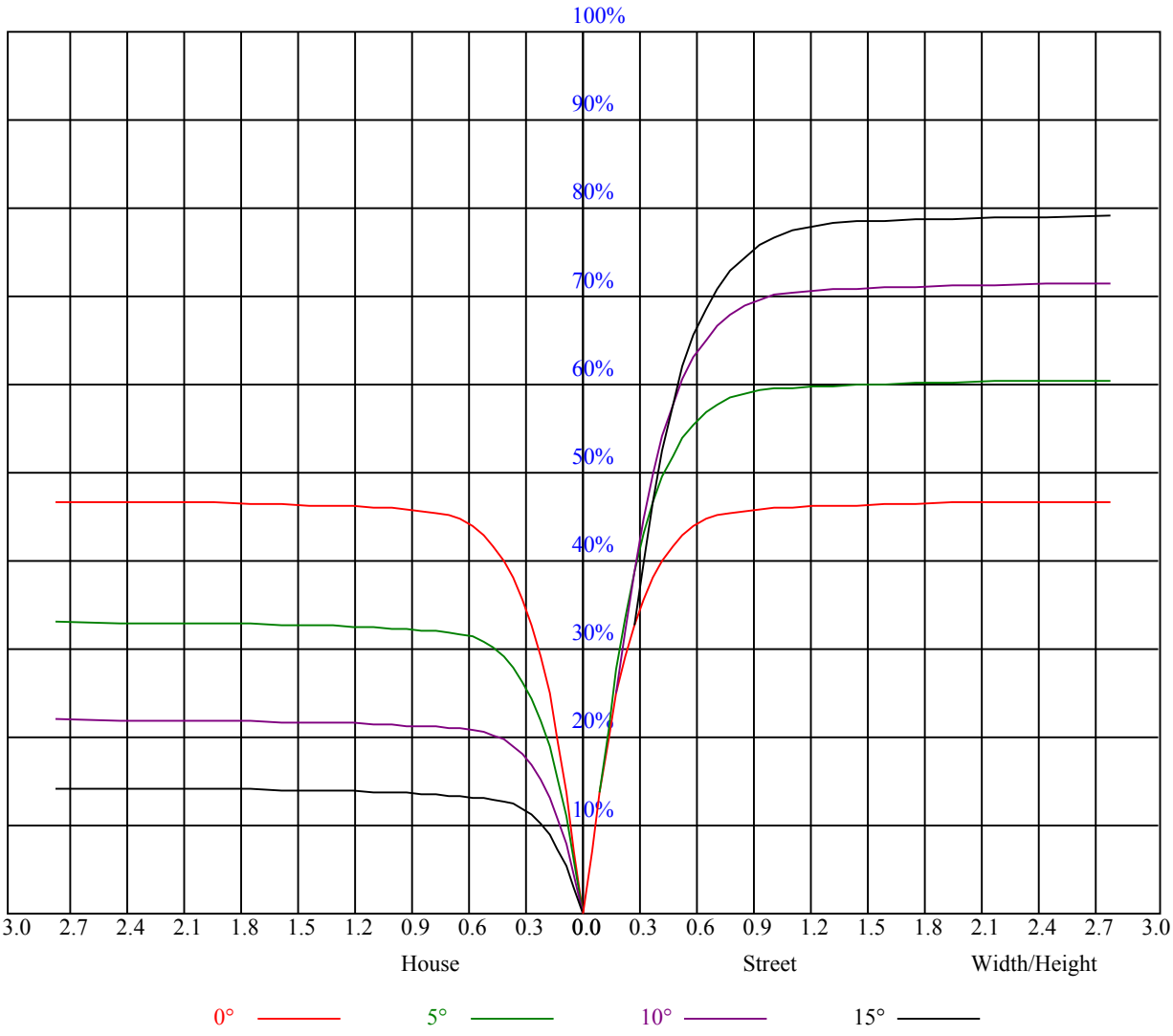


Equipment: GMS1980 Date: 2023/10/27 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.12	1.12	1.12	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.05	1.03	1.01	1.03	1.01	1.00	0.99	0.98	0.96	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.96	0.93	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.86	0.85
3	0.94	0.90	0.87	0.93	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	0.85	0.82	0.79	0.83	0.80	0.78	0.77
5	0.85	0.81	0.77	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.74
6	0.81	0.77	0.73	0.81	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
7	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
8	0.75	0.70	0.67	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.65
9	0.72	0.68	0.65	0.72	0.67	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.63
10	0.70	0.65	0.62	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/10/27	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	12072.62	11663.00	10922.93	10922.93	10165.69	9471.55	8773.55	8046.20	7161.10
45.0	12194.40	12127.97	11878.88	11530.15	11037.51	10312.38	9659.20	8961.75	8070.55
90.0	12133.51	11884.42	10922.93	10922.93	10319.02	9669.72	8989.98	8121.48	7394.69
135.0	12205.47	12111.37	11912.09	11579.97	11126.07	10417.55	9764.38	9094.60	8220.01
180.0	12072.62	12177.79	12150.12	11928.70	11651.93	11103.93	10528.25	9891.69	9205.30
225.0	12194.40	12144.58	11906.56	10991.56	10991.56	10562.57	9728.40	9007.14	8308.58
270.0	12133.51	12205.47	12144.58	11928.70	11596.58	11153.75	10583.61	9769.91	9066.92
315.0	12205.47	12144.58	11939.77	10923.48	10923.48	10480.10	9819.73	8923.55	8172.96
360.0	12072.62	11663.00	10922.93	10922.93	10165.69	9471.55	8773.55	8046.20	7161.10

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6505.71	5896.82	5330.00	4700.07	4247.28	3844.86	3403.14	3096.48	2775.43
45.0	7367.56	6697.79	5944.98	5385.91	4865.58	4400.61	3968.85	3509.42	3199.44
90.0	6733.21	6114.91	5396.42	4891.60	4417.77	3999.30	3535.99	3213.28	2866.76
135.0	7517.02	6675.64	6083.36	5513.22	4865.58	4406.15	3985.46	3609.05	3199.44
180.0	8319.65	7616.66	6930.27	6293.70	5557.50	5037.18	4555.60	4029.74	3658.87
225.0	7586.76	6725.46	6103.84	5529.27	5009.50	4418.88	4012.58	3633.96	3227.67
270.0	8336.25	7633.26	6758.67	6111.04	5551.97	4898.79	4439.36	4018.67	3570.31
315.0	7440.63	6584.31	5978.19	5418.56	4790.30	4349.69	3938.96	3570.31	3179.51
360.0	6505.71	5896.82	5330.00	4700.07	4247.28	3844.86	3403.14	3096.48	2775.43

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2554.02	2355.30	2183.15	1988.85	1852.68	1723.16	1597.50	1452.48	1250.99
45.0	2856.25	2856.25	2589.44	2189.23	2029.82	1884.24	1724.26	1600.27	1481.82
90.0	2629.30	2420.61	2189.79	2032.58	1891.99	1725.93	1608.58	1493.44	1382.18
135.0	2917.13	2856.25	2856.25	2267.28	2062.48	1915.23	1786.26	1632.38	1514.47
180.0	3321.22	2950.35	2811.96	2811.96	2230.75	2066.35	1913.02	1778.51	1627.40
225.0	2942.04	2633.17	2423.38	2241.82	2036.46	1894.20	1764.12	1641.79	1523.88
270.0	3238.19	2944.81	2817.50	2817.50	2235.73	2075.76	1927.97	1765.23	1642.89
315.0	2901.64	2650.33	2437.22	2199.75	2035.91	1892.54	1728.69	1604.70	1460.23
360.0	2554.02	2355.30	2183.15	1988.85	1852.68	1723.16	1597.50	1452.48	1250.99

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1101.70	1101.70	957.17	843.53	734.49	603.30	507.59	423.57	327.86
45.0	1365.02	1221.10	1104.30	990.28	875.69	737.31	633.25	540.25	435.08
90.0	1092.57	1092.57	1006.22	891.41	751.20	644.81	548.50	459.82	361.07
135.0	1373.32	1262.62	1150.25	1008.54	895.07	781.59	674.76	554.09	466.63
180.0	1512.81	1402.11	1289.19	1154.12	1042.86	919.42	809.82	675.87	578.45
225.0	1381.07	1092.74	1092.74	1006.99	892.19	781.87	650.52	555.31	471.39
270.0	1524.99	1379.41	1263.72	1149.14	1008.54	890.09	774.40	644.32	550.21
315.0	1349.52	1084.99	1084.99	970.24	855.93	745.67	640.00	520.77	435.63
360.0	1101.70	1101.70	957.17	843.53	734.49	603.30	507.59	423.57	327.86

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	263.59	209.90	156.87	125.93	102.79	82.37	70.96	62.49	56.41
45.0	357.58	289.50	289.50	170.05	136.34	105.67	88.07	75.00	65.54
90.0	293.10	223.13	178.07	143.26	111.21	92.55	78.55	68.08	58.95
135.0	388.03	316.07	284.52	284.52	151.06	122.50	96.65	81.54	68.20
180.0	468.84	392.46	323.82	292.27	292.27	155.77	125.10	98.03	82.59
225.0	374.85	307.16	247.65	185.60	147.13	117.46	96.48	78.05	67.97
270.0	442.83	366.44	298.36	282.86	214.50	140.49	113.25	93.88	79.60
315.0	358.91	290.77	220.14	173.81	138.55	106.06	88.29	75.28	63.88
360.0	263.59	209.90	156.87	125.93	102.79	82.37	70.96	62.49	56.41

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	50.93	47.60	45.00	42.90	40.96	39.85	38.97	38.64	38.75
45.0	57.24	52.64	48.93	46.11	43.34	41.74	40.46	39.47	39.13
90.0	53.86	49.98	46.94	44.06	42.35	41.13	40.08	39.69	39.58
135.0	60.72	55.24	50.10	46.94	44.45	42.57	40.91	40.13	39.63
180.0	71.35	63.16	55.91	51.64	48.38	45.22	43.40	41.96	40.80
225.0	60.61	55.30	50.26	47.22	44.34	42.57	41.18	40.02	39.52
270.0	67.25	60.22	55.02	50.10	47.05	44.23	42.40	40.96	39.69
315.0	57.68	51.98	48.55	45.89	43.73	42.01	40.41	39.58	39.02
360.0	50.93	47.60	45.00	42.90	40.96	39.85	38.97	38.64	38.75

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	39.41	40.19	40.80	41.07	40.52	39.30	37.20	34.37	30.94
45.0	39.08	39.52	40.08	40.80	41.07	40.68	39.63	37.14	34.32
90.0	40.02	40.80	41.63	41.96	41.63	40.63	38.19	35.43	32.66
135.0	39.58	40.13	40.57	41.35	41.46	41.29	40.02	37.97	35.26
180.0	40.24	40.19	40.63	41.02	41.74	42.01	41.79	40.96	39.30
225.0	39.36	39.58	40.02	40.63	40.85	40.63	39.63	38.08	35.76
270.0	39.08	38.91	39.02	39.58	40.19	40.30	40.19	39.47	37.70
315.0	38.80	39.19	39.69	40.35	40.74	40.57	39.36	37.59	35.04
360.0	39.41	40.19	40.80	41.07	40.52	39.30	37.20	34.37	30.94

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	28.62	26.79	24.96	23.86	22.75	21.98	21.26	20.65	19.93
45.0	31.66	29.34	27.34	25.35	24.19	23.03	22.31	21.64	20.76
90.0	30.00	27.57	25.96	24.69	23.69	22.58	21.86	21.03	20.43
135.0	31.99	29.50	27.57	25.96	24.41	23.47	22.64	21.98	21.26
180.0	36.20	33.32	30.56	27.90	26.24	24.96	23.69	22.86	22.14
225.0	33.16	29.89	27.79	25.74	24.58	23.64	22.58	21.86	21.26
270.0	35.26	31.94	29.45	27.51	25.52	24.47	23.53	22.53	21.81
315.0	31.72	29.23	27.29	25.74	24.24	23.30	22.53	21.75	20.98
360.0	28.62	26.79	24.96	23.86	22.75	21.98	21.26	20.65	19.93

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.43	18.99	18.60	18.10	17.71	17.33	16.94	16.55	16.16
45.0	20.15	19.65	19.04	18.65	18.21	17.82	17.33	16.94	16.61
90.0	19.87	19.26	18.82	18.43	17.99	17.55	17.16	16.77	16.33
135.0	20.48	19.93	19.32	18.88	18.49	17.93	17.60	17.10	16.72
180.0	21.26	20.65	20.09	19.48	18.88	18.43	17.99	17.60	17.16
225.0	20.65	19.93	19.43	18.93	18.54	17.99	17.60	17.21	16.72
270.0	21.20	20.59	19.93	19.43	18.93	18.49	17.99	17.60	17.21
315.0	20.37	19.71	19.26	18.82	18.27	17.88	17.49	17.10	16.61
360.0	19.43	18.99	18.60	18.10	17.71	17.33	16.94	16.55	16.16

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.67	15.33	14.83	14.61	14.23	13.89	13.56	13.28	13.12
45.0	16.22	15.78	15.22	14.89	14.50	14.17	13.89	13.51	13.12
90.0	15.83	15.33	14.95	14.61	14.34	14.06	13.73	13.34	13.34
135.0	16.27	15.78	15.33	14.95	14.56	14.23	13.95	13.62	13.17
180.0	16.72	16.27	15.78	15.28	15.00	14.61	14.23	13.95	13.62
225.0	16.27	15.89	15.39	15.06	14.61	14.34	14.00	13.67	13.34
270.0	16.72	16.27	15.78	15.33	14.95	14.56	14.23	13.84	13.51
315.0	16.22	15.78	15.44	15.06	14.67	14.28	13.89	13.62	13.34
360.0	15.67	15.33	14.83	14.61	14.23	13.89	13.56	13.28	13.12

Intensity data(cd)

C/γ(°)	90.0
0.0	13.12
45.0	13.17
90.0	13.28
135.0	13.40
180.0	13.23
225.0	13.12
270.0	13.17
315.0	13.12
360.0	13.12