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: 2-2642-L
Luminaire: 92.70.411.00
Report No: 20231027-B005
Ballast type: AC

Test No: 20231027-C005	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): 3145.35, Efficiency(%): 92.75% , Luminous Efficacy(lm/W): 151.38
Central intensity(cd): 4839.427, Maximum intensity(cd): 4839.427
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=48.6
[C90/270]Total=48.6
Field angle(10%Imax): [C0/180]Total=73.0
[C90/270]Total=73.0
Maximum s/h(1/2): C0_180=0.77 C90_270=0.77
Maximum s/h(1/4): C0_180=0.76 C90_270=0.76
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.75%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.948%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4839.427	0.000	0	0.00%	0.00%
1.0	4839.288	4.631	4.631	0.14%	0.15%
2.0	4837.351	13.889	18.52	0.41%	0.59%
3.0	4825.934	23.111	41.631	0.68%	1.32%
4.0	4803.447	32.233	73.864	0.95%	2.35%
5.0	4770.373	41.186	115.05	1.21%	3.66%
6.0	4724.015	49.896	164.946	1.47%	5.24%
7.0	4665.963	58.283	223.229	1.72%	7.10%
8.0	4598.293	66.303	289.531	1.96%	9.21%
9.0	4511.803	73.832	363.364	2.18%	11.55%
10.0	4414.519	80.780	444.144	2.38%	14.12%
11.0	4303.327	87.109	531.253	2.57%	16.89%
12.0	4193.312	92.880	624.133	2.74%	19.84%
13.0	4063.646	97.989	722.123	2.89%	22.96%
14.0	3938.893	102.432	824.554	3.02%	26.22%
15.0	3816.423	106.468	931.023	3.14%	29.60%
16.0	3691.947	110.019	1041.042	3.24%	33.10%
17.0	3546.021	112.715	1153.756	3.32%	36.68%
18.0	3416.286	114.793	1268.549	3.39%	40.33%
19.0	3275.134	116.417	1384.966	3.43%	44.03%
20.0	3122.843	117.101	1502.067	3.45%	47.76%
21.0	2961.210	116.826	1618.893	3.44%	51.47%
22.0	2812.032	116.016	1734.909	3.42%	55.16%
23.0	2639.052	114.378	1849.288	3.37%	58.79%
24.0	2474.652	111.804	1961.091	3.30%	62.35%
25.0	2302.433	108.620	2069.712	3.20%	65.80%
26.0	2141.769	104.906	2174.618	3.09%	69.14%
27.0	1965.952	100.496	2275.114	2.96%	72.33%
28.0	1788.613	95.058	2370.172	2.80%	75.35%
29.0	1568.285	87.826	2457.998	2.59%	78.15%
30.0	1372.901	79.411	2537.409	2.34%	80.67%
31.0	1221.557	72.200	2609.609	2.13%	82.97%
32.0	1079.783	65.931	2675.54	1.94%	85.06%
33.0	928.882	59.176	2734.716	1.74%	86.94%
34.0	782.409	51.789	2786.504	1.53%	88.59%
35.0	641.486	44.221	2830.725	1.30%	90.00%
36.0	532.176	37.370	2868.095	1.10%	91.19%
37.0	426.333	31.261	2899.356	0.92%	92.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	341.400	25.626	2924.982	0.76%	92.99%
39.0	276.533	21.092	2946.074	0.62%	93.66%
40.0	230.140	17.671	2963.745	0.52%	94.23%
41.0	187.275	14.864	2978.609	0.44%	94.70%
42.0	153.869	12.394	2991.003	0.37%	95.09%
43.0	119.453	10.125	3001.128	0.30%	95.41%
44.0	101.705	8.347	3009.475	0.25%	95.68%
45.0	88.503	7.310	3016.785	0.22%	95.91%
46.0	78.526	6.532	3023.317	0.19%	96.12%
47.0	70.354	5.921	3029.238	0.17%	96.31%
48.0	63.989	5.431	3034.669	0.16%	96.48%
49.0	58.765	5.041	3039.71	0.15%	96.64%
50.0	54.074	4.705	3044.415	0.14%	96.79%
51.0	50.261	4.414	3048.829	0.13%	96.93%
52.0	47.016	4.174	3053.003	0.12%	97.06%
53.0	44.186	3.967	3056.971	0.12%	97.19%
54.0	41.757	3.788	3060.759	0.11%	97.31%
55.0	39.599	3.632	3064.39	0.11%	97.43%
56.0	37.772	3.496	3067.886	0.10%	97.54%
57.0	36.104	3.378	3071.264	0.10%	97.64%
58.0	34.624	3.271	3074.535	0.10%	97.75%
59.0	33.302	3.176	3077.71	0.09%	97.85%
60.0	32.091	3.089	3080.8	0.09%	97.95%
61.0	30.963	3.009	3083.809	0.09%	98.04%
62.0	29.960	2.936	3086.745	0.09%	98.14%
63.0	28.971	2.866	3089.611	0.08%	98.23%
64.0	28.078	2.799	3092.41	0.08%	98.32%
65.0	27.282	2.740	3095.15	0.08%	98.40%
66.0	26.494	2.683	3097.833	0.08%	98.49%
67.0	25.698	2.624	3100.457	0.08%	98.57%
68.0	24.958	2.566	3103.023	0.08%	98.65%
69.0	24.224	2.509	3105.532	0.07%	98.73%
70.0	23.518	2.452	3107.984	0.07%	98.81%
71.0	22.847	2.396	3110.381	0.07%	98.89%
72.0	22.169	2.341	3112.721	0.07%	98.96%
73.0	21.477	2.282	3115.004	0.07%	99.04%
74.0	20.813	2.223	3117.227	0.07%	99.11%
75.0	20.149	2.164	3119.391	0.06%	99.17%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	19.533	2.106	3121.498	0.06%	99.24%
77.0	18.896	2.049	3123.547	0.06%	99.31%
78.0	18.274	1.990	3125.536	0.06%	99.37%
79.0	17.651	1.930	3127.467	0.06%	99.43%
80.0	17.056	1.871	3129.338	0.06%	99.49%
81.0	16.488	1.814	3131.152	0.05%	99.55%
82.0	15.928	1.758	3132.91	0.05%	99.60%
83.0	15.409	1.704	3134.613	0.05%	99.66%
84.0	14.966	1.655	3136.268	0.05%	99.71%
85.0	14.537	1.610	3137.878	0.05%	99.76%
86.0	14.136	1.567	3139.445	0.05%	99.81%
87.0	13.769	1.527	3140.973	0.05%	99.86%
88.0	13.396	1.488	3142.461	0.04%	99.91%
89.0	13.133	1.454	3143.915	0.04%	99.95%
90.0	12.994	1.432	3145.347	0.04%	100.00%

Zonal flux distribution table

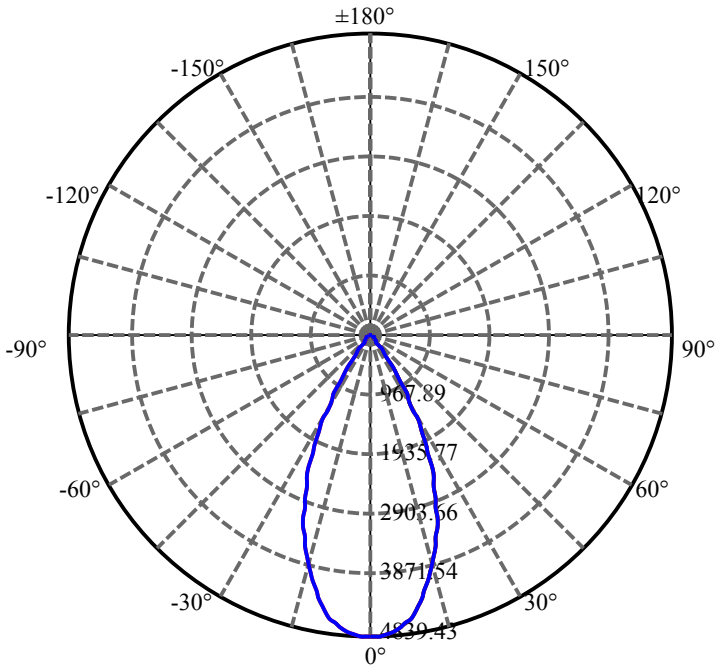
ZONAL LUMEN SUMMARY

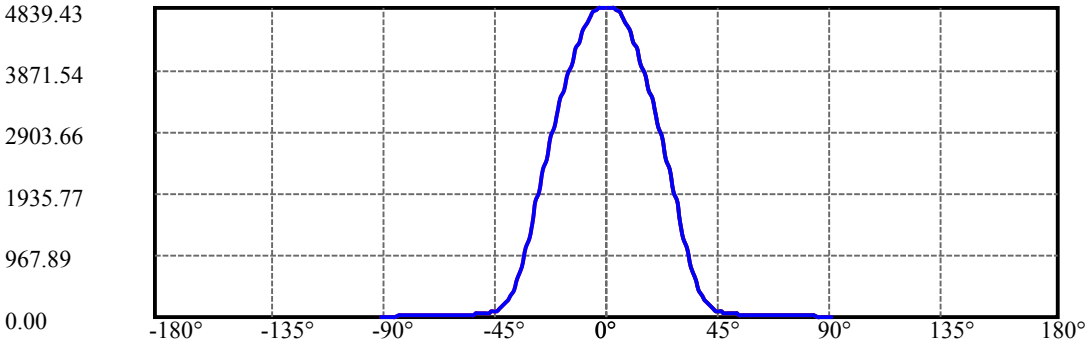
Zone	Lumens	%Lamp	%Fixt
0-30	2537.41	74.82%	80.67%
0-40	2963.74	87.39%	94.23%
0-60	3080.80	90.85%	97.95%
0-90	3143.91	92.71%	99.95%
0-120	3143.91	92.71%	99.95%
0-180	3145.35	92.75%	100.00%
60-90	63.11	1.86%	2.01%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.73	2516.28	74.20%	80.00%

ZONAL LUMEN SUMMARY

0-10	444.14
10-20	1057.92
20-30	1035.34
30-40	426.34
40-50	80.67
50-60	36.39
60-70	27.18
70-80	21.35
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):

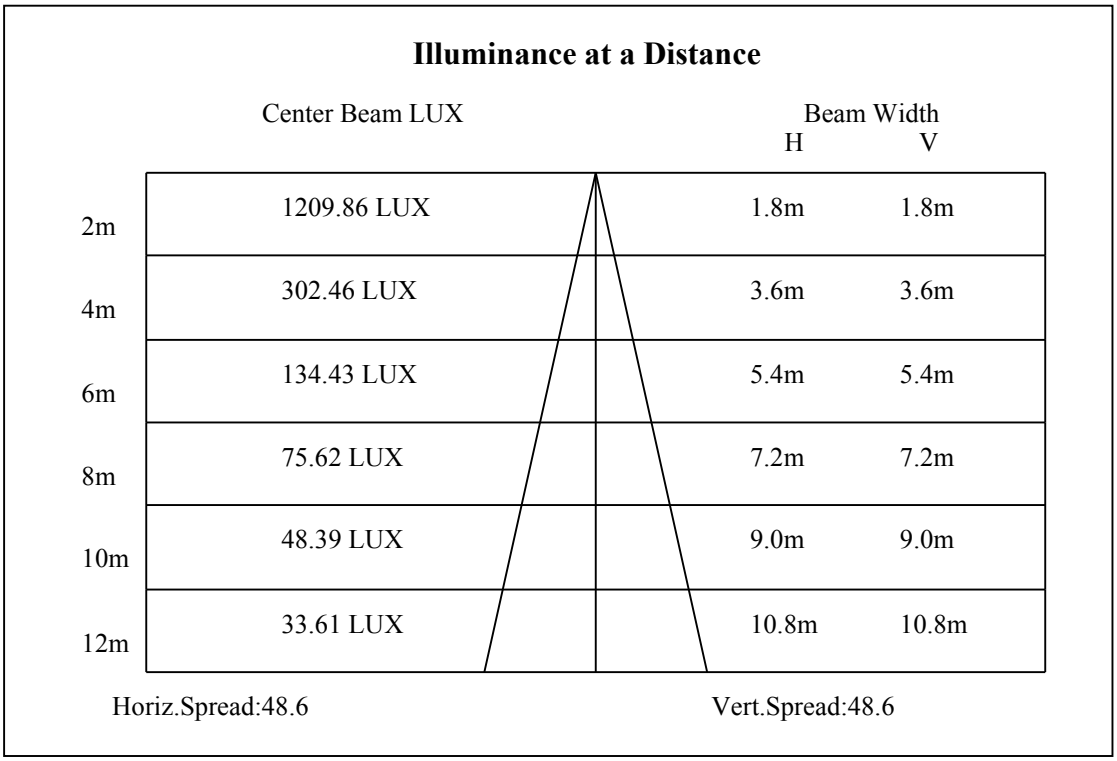
C0/C180:

C90/C270:

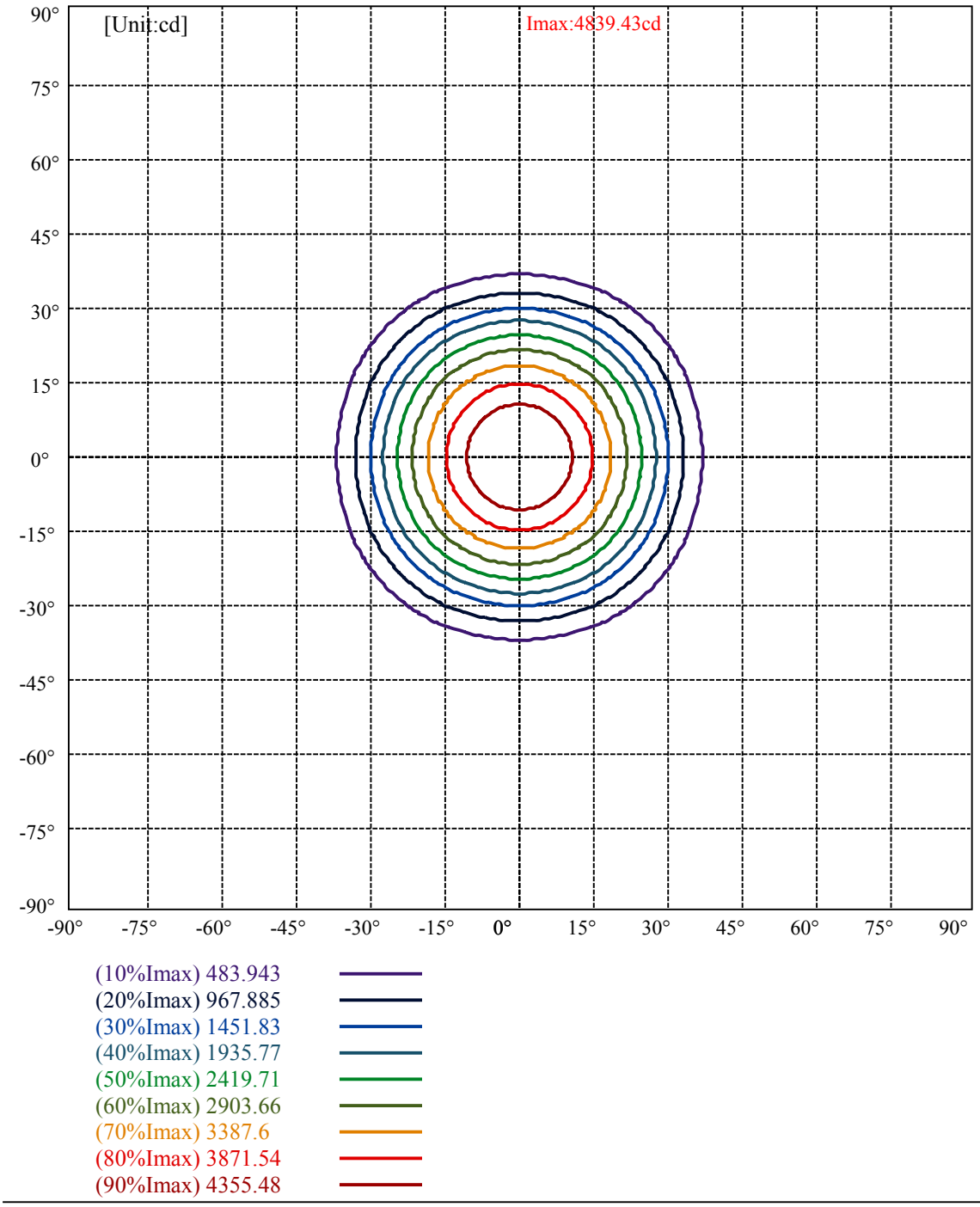
Field angle(10%Imax):C0/180Left:36.5 Right:36.5
:C90/270Left:36.5 Right:36.5

Beam Angle(50%Imax):C0/180Left:24.3 Right:24.3
:C90/270Left:24.3 Right:24.3

Lux distance Curve



ISO-Intensity(V-H)

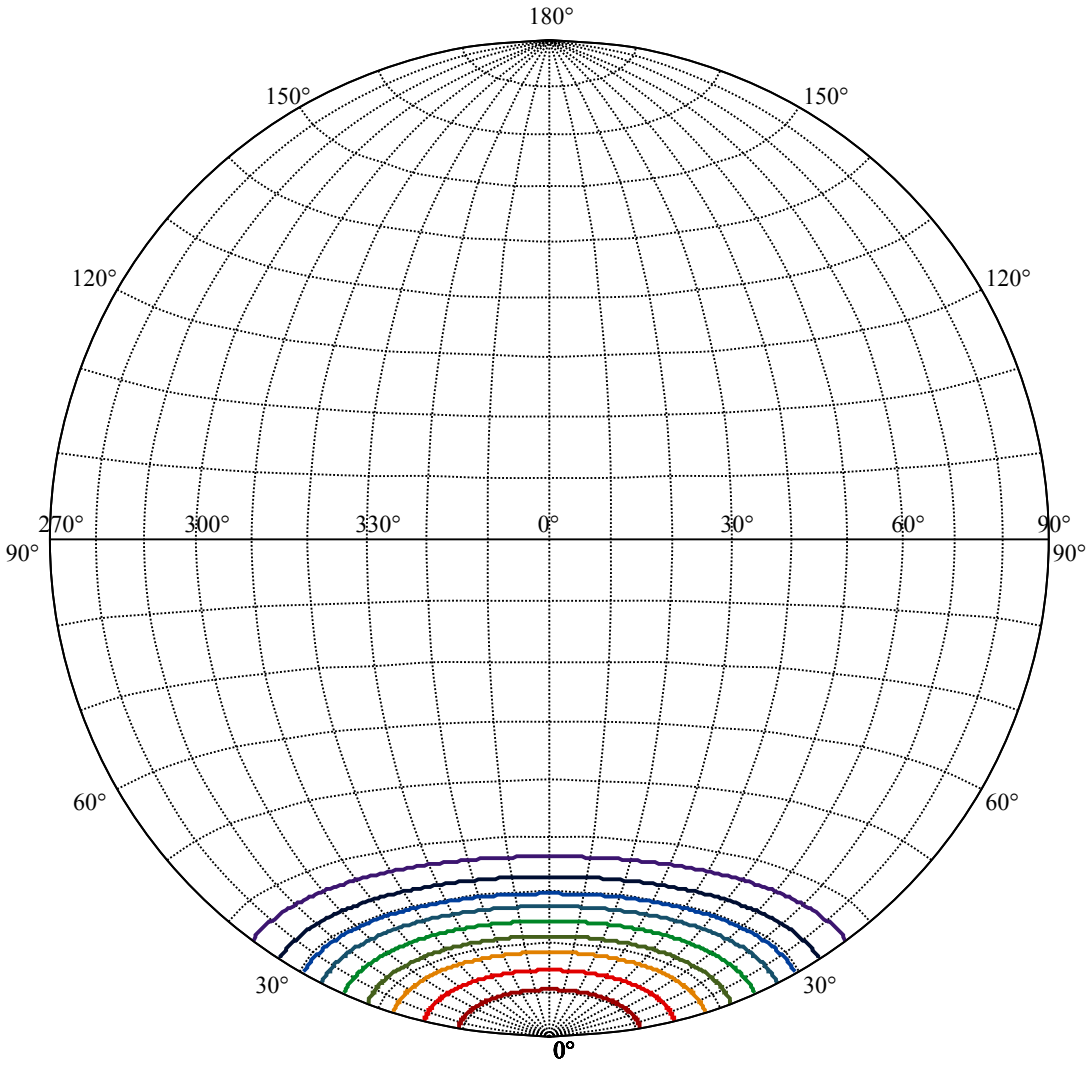


Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:4839.43

(10%Imax) 483.943
(20%Imax) 967.885
(30%Imax) 1451.83
(40%Imax) 1935.77
(50%Imax) 2419.71
(60%Imax) 2903.66
(70%Imax) 3387.6
(80%Imax) 3871.54
(90%Imax) 4355.48

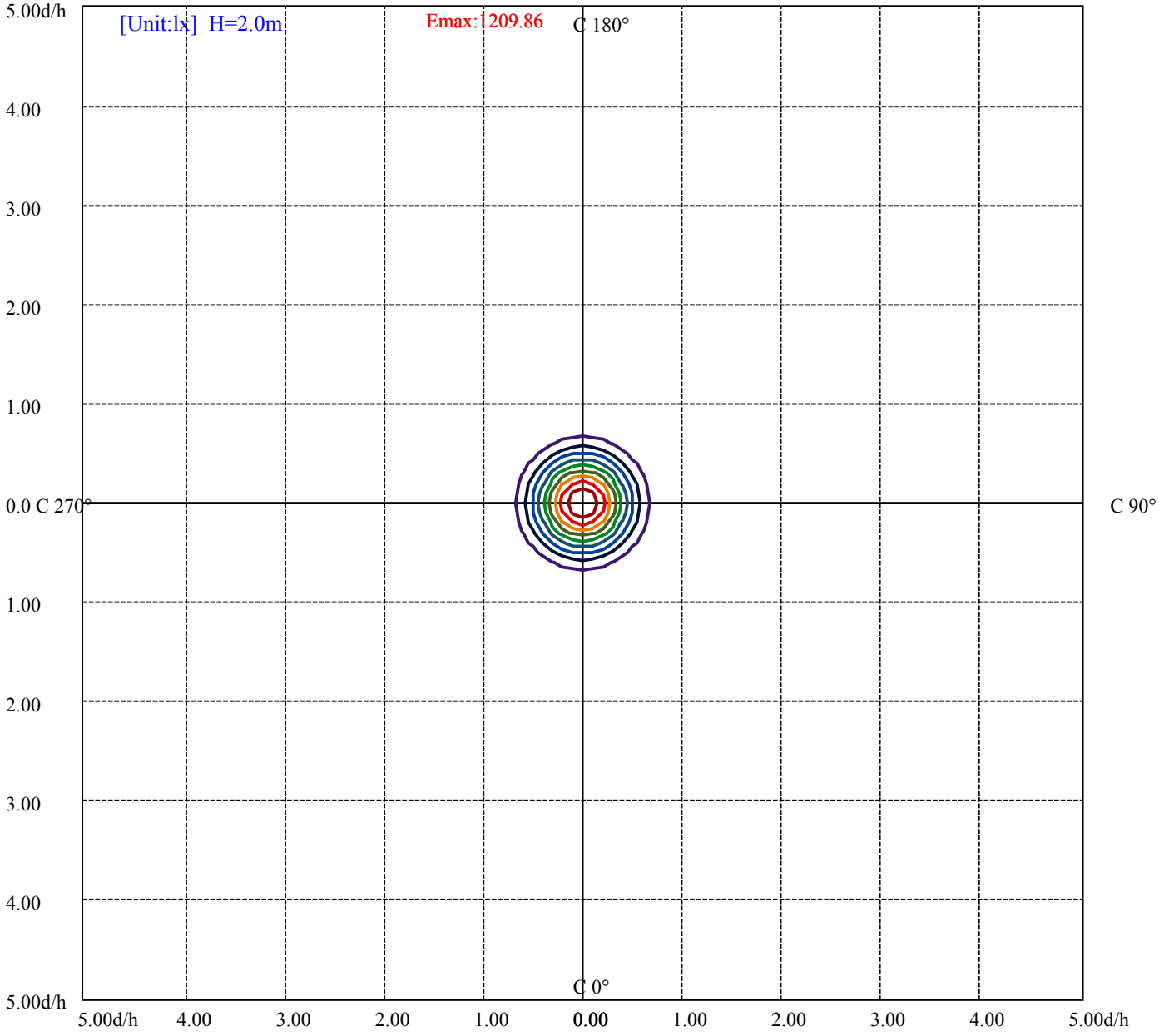
Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

NT 2-2642-L

ISO illuminance diagram

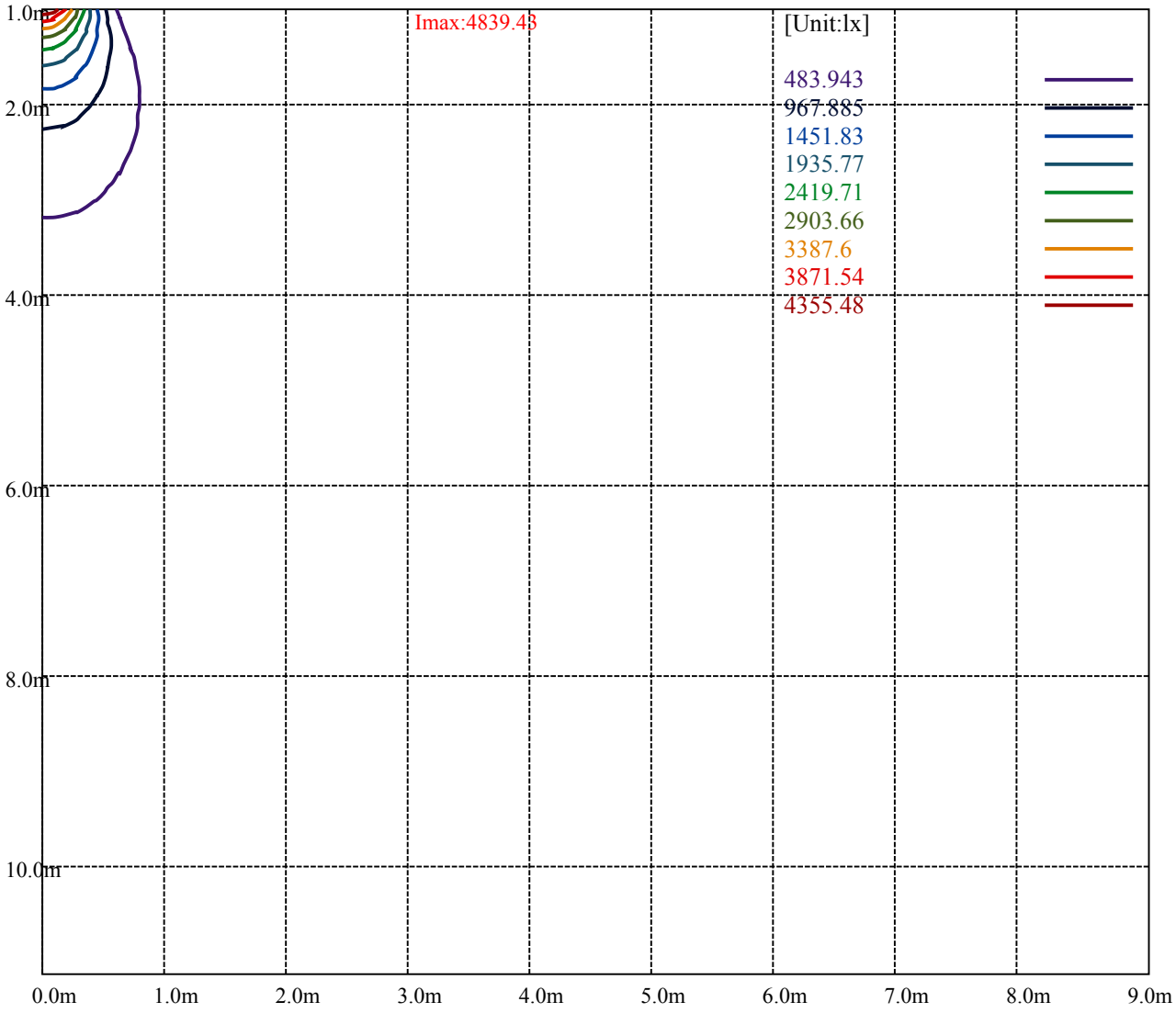


Equipment: GMS1980
Temperature(°C): 0.0

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

Luminance Limitting Curve(no luminous side)

Luminance Table

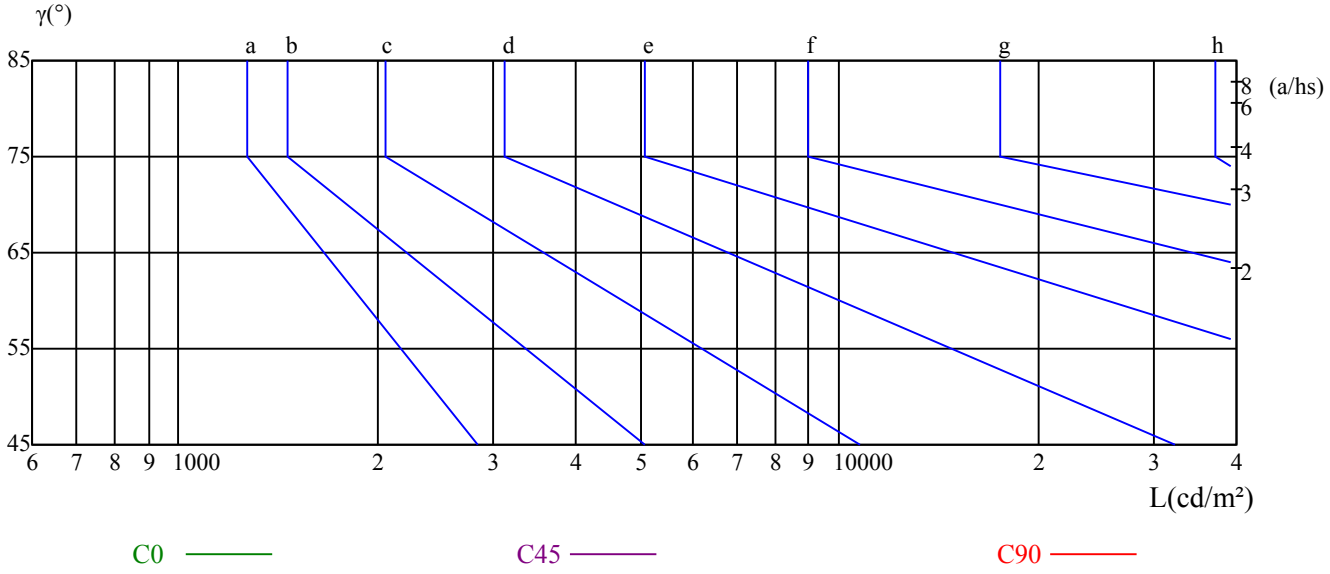
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

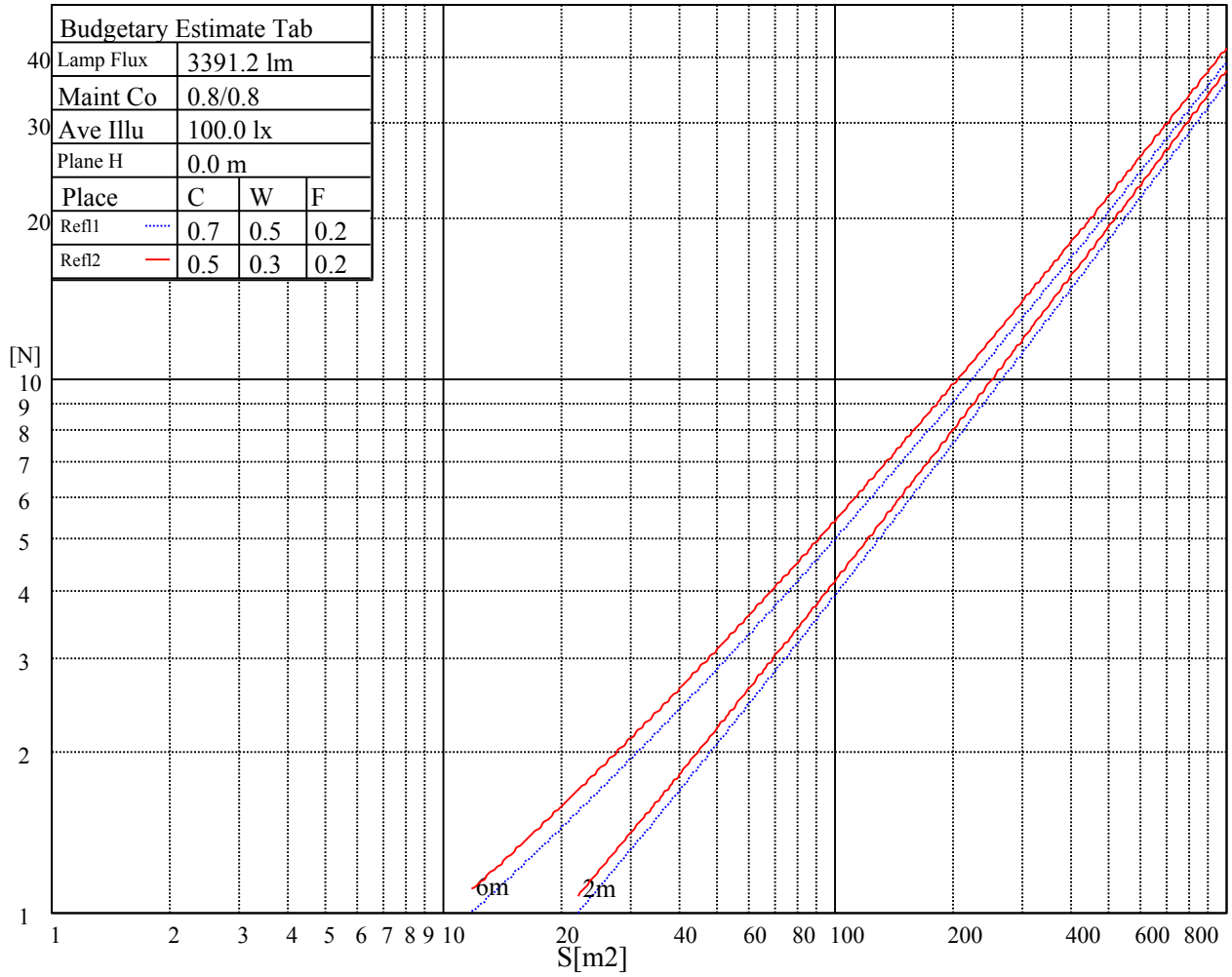
Luminance Limitting Curve



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

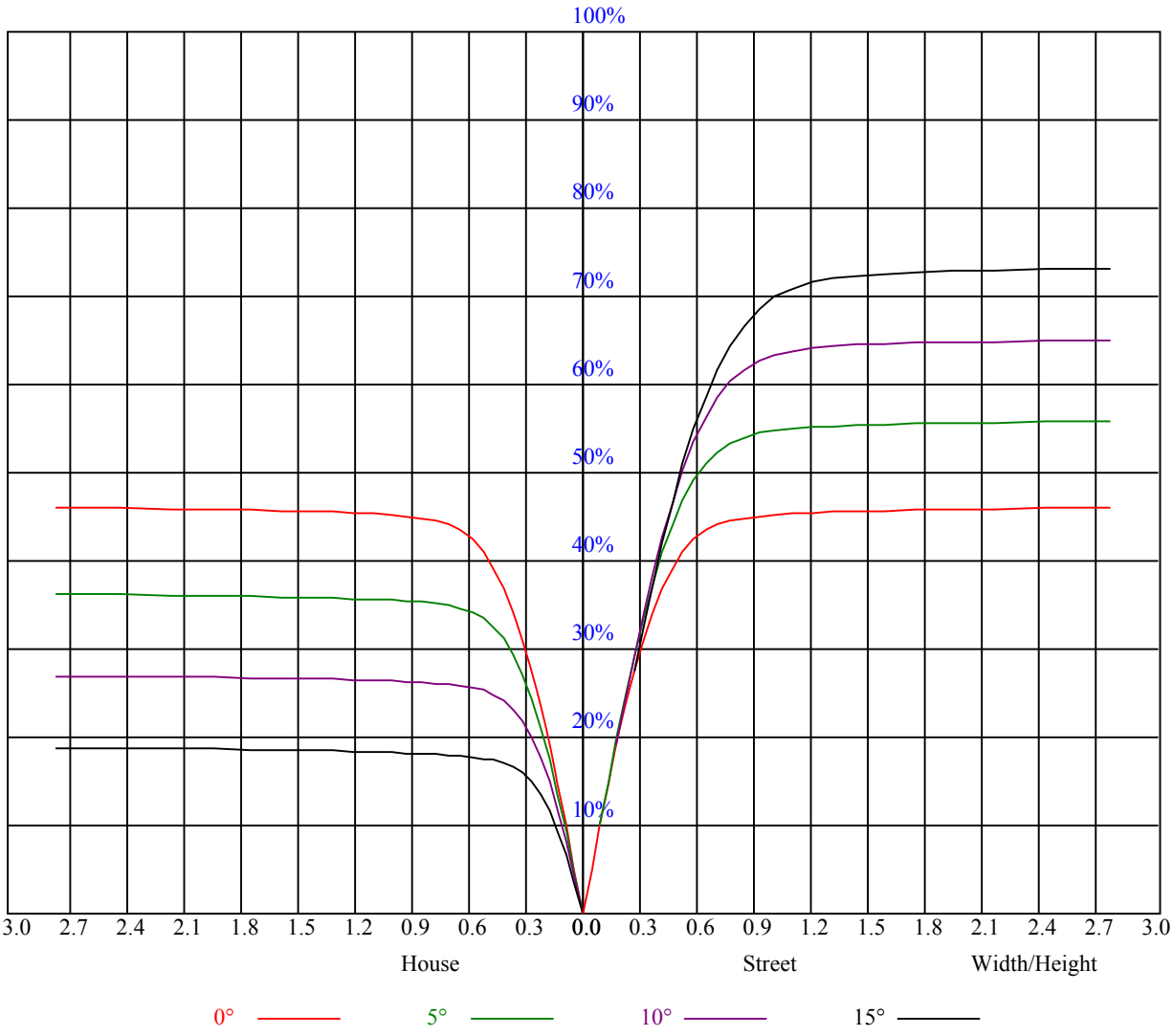


Equipment: GMS1980 Date: 2023/10/27 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.10	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	1.03	1.01	0.98	1.01	0.99	0.97	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.86	0.89	0.87	0.85	0.86	0.84	0.83	0.81
3	0.90	0.86	0.82	0.89	0.85	0.82	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.76
4	0.85	0.80	0.76	0.84	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.73	0.72
5	0.80	0.75	0.71	0.79	0.74	0.71	0.78	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.68
6	0.76	0.71	0.67	0.75	0.70	0.67	0.74	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.65	0.64
7	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.61
8	0.68	0.63	0.59	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.57
9	0.65	0.60	0.56	0.64	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.54
10	0.62	0.57	0.53	0.61	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.56	0.53	0.52

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	4828.49	4811.89	4799.71	4778.68	4719.45	4670.18	4592.69	4505.23	4425.52
45.0	4838.46	4835.14	4835.69	4823.51	4798.05	4765.39	4722.77	4653.02	4587.15
90.0	4841.78	4844.55	4843.99	4825.73	4791.96	4755.98	4694.54	4639.74	4559.48
135.0	4848.98	4857.83	4852.30	4855.62	4852.30	4824.07	4792.51	4737.16	4684.58
180.0	4828.49	4830.71	4846.21	4839.01	4842.33	4846.21	4827.39	4798.05	4752.66
225.0	4838.46	4837.90	4837.35	4836.80	4819.64	4778.68	4746.02	4690.11	4608.19
270.0	4841.78	4852.30	4845.10	4838.46	4827.94	4788.09	4747.12	4689.00	4629.78
315.0	4848.98	4843.99	4838.46	4809.67	4775.91	4734.39	4669.08	4615.38	4539.00
360.0	4828.49	4811.89	4799.71	4778.68	4719.45	4670.18	4592.69	4505.23	4425.52

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4309.28	4199.68	4088.97	3978.26	3845.41	3725.85	3599.64	3484.51	3327.30
45.0	4470.91	4390.09	4285.48	4172.55	4030.85	3929.00	3814.97	3689.87	3524.92
90.0	4468.70	4344.15	4236.21	4116.09	3957.23	3842.65	3693.19	3566.99	3434.14
135.0	4613.72	4517.41	4398.40	4290.46	4170.89	4006.49	3874.75	3751.31	3590.79
180.0	4680.15	4610.40	4497.48	4392.86	4281.60	4141.56	4021.44	3901.88	3756.30
225.0	4534.57	4430.50	4303.74	4192.48	4041.37	3921.80	3812.20	3700.94	3558.68
270.0	4565.01	4483.09	4381.24	4278.28	4169.23	4054.65	3943.39	3797.81	3681.57
315.0	4452.09	4340.83	4235.10	4125.50	4012.58	3889.14	3771.79	3642.27	3494.47
360.0	4309.28	4199.68	4088.97	3978.26	3845.41	3725.85	3599.64	3484.51	3327.30

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3194.46	3054.97	2870.08	2717.31	2562.32	2359.72	2199.75	1996.05	1837.74
45.0	3395.94	3266.42	3132.46	2952.01	2810.30	2612.69	2456.04	2293.30	2090.71
90.0	3301.29	3125.82	2980.79	2829.68	2676.35	2470.43	2304.92	2148.27	1986.09
135.0	3464.03	3332.29	3190.03	3012.90	2867.32	2718.97	2523.02	2360.83	2200.86
180.0	3636.18	3509.42	3359.96	3228.22	3066.04	2924.88	2775.98	2587.78	2437.22
225.0	3423.62	3292.99	3154.60	2976.92	2825.80	2671.92	2525.23	2334.81	2187.02
270.0	3544.29	3386.53	3245.94	3070.46	2927.65	2782.63	2597.19	2439.43	2295.51
315.0	3370.48	3232.65	3048.88	2902.19	2760.48	2571.17	2415.08	2258.98	2099.01
360.0	3194.46	3054.97	2870.08	2717.31	2562.32	2359.72	2199.75	1996.05	1837.74

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1672.79	1503.96	1085.32	1085.32	967.41	819.51	684.78	539.59	439.56
45.0	1921.88	1754.16	1546.03	1378.30	1211.69	1048.95	859.09	720.70	597.27
90.0	1777.96	1620.20	1288.63	1082.99	1082.99	889.59	750.21	625.11	489.16
135.0	2040.33	1842.17	1677.77	1516.69	1316.31	1151.35	957.06	815.36	682.51
180.0	2280.57	2084.06	1927.97	1725.37	1564.85	1397.68	1231.06	1068.32	881.78
225.0	1989.41	1831.65	1671.68	1469.64	1067.05	1067.05	989.94	848.85	687.71
270.0	2144.95	1936.27	1781.83	1625.74	1463.00	1242.69	1088.25	936.03	763.88
315.0	1899.74	1736.44	1567.06	1099.16	1099.16	1021.44	870.66	705.32	590.01
360.0	1672.79	1503.96	1085.32	1085.32	967.41	819.51	684.78	539.59	439.56

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	356.09	273.56	221.64	173.70	144.97	122.66	101.68	89.23	79.49
45.0	488.77	373.08	300.02	283.96	217.87	152.44	128.75	106.56	93.33
90.0	398.66	322.60	259.61	211.01	166.01	139.88	119.40	100.08	88.46
135.0	564.05	436.74	351.50	282.30	282.30	174.25	145.86	124.32	103.95
180.0	746.72	623.28	513.68	395.78	317.73	283.96	283.96	155.93	130.36
225.0	573.08	470.39	361.24	290.16	233.15	179.62	148.90	125.27	103.68
270.0	644.32	533.06	416.26	338.76	286.18	286.18	168.99	140.71	118.73
315.0	485.73	377.95	307.27	236.58	192.91	159.20	133.40	113.53	95.65
360.0	356.09	273.56	221.64	173.70	144.97	122.66	101.68	89.23	79.49

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	71.68	63.82	58.79	54.52	50.87	47.05	44.39	42.12	39.69
45.0	82.98	72.73	66.04	60.45	55.80	50.98	47.77	45.06	42.73
90.0	79.10	69.91	63.93	57.73	53.69	50.15	47.22	44.01	41.85
135.0	91.78	82.14	72.46	66.09	60.67	55.13	51.48	48.27	45.00
180.0	107.22	93.82	81.20	73.23	66.65	61.22	55.41	51.53	48.32
225.0	91.11	81.48	71.90	65.76	60.50	55.91	51.20	48.05	45.17
270.0	99.19	87.74	78.93	71.63	64.15	59.28	55.08	50.48	47.33
315.0	84.97	76.55	69.58	62.49	57.79	52.86	49.54	46.61	43.40
360.0	71.68	63.82	58.79	54.52	50.87	47.05	44.39	42.12	39.69

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	37.97	36.04	34.71	33.43	31.99	31.00	30.06	29.17	28.34
45.0	40.02	38.25	36.37	34.98	33.65	32.22	31.22	30.28	29.39
90.0	39.85	38.08	36.48	34.71	33.43	32.33	31.00	30.06	28.95
135.0	42.62	40.63	38.86	36.92	35.48	34.15	32.94	31.55	30.50
180.0	45.45	42.57	40.41	38.64	36.98	35.26	33.88	32.49	31.44
225.0	42.79	40.19	38.36	36.81	34.98	33.71	32.49	31.16	30.28
270.0	44.12	41.79	39.85	37.64	36.09	34.65	33.43	32.27	30.94
315.0	41.24	39.25	37.14	35.70	34.37	33.10	31.72	30.72	29.84
360.0	37.97	36.04	34.71	33.43	31.99	31.00	30.06	29.17	28.34

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	27.46	26.68	25.96	25.24	24.47	23.80	23.14	22.31	21.70
45.0	28.34	27.57	26.85	26.18	25.24	24.63	23.97	23.19	22.53
90.0	28.17	27.34	26.46	25.68	24.96	24.30	23.41	22.86	22.20
135.0	29.39	28.62	27.73	26.85	26.07	25.35	24.69	23.86	23.19
180.0	30.44	29.28	28.45	27.73	26.90	26.07	25.35	24.69	24.02
225.0	29.06	28.23	27.46	26.68	25.96	25.13	24.47	23.80	23.14
270.0	29.95	29.06	28.23	27.23	26.46	25.57	24.80	24.13	23.36
315.0	28.95	27.84	27.12	26.35	25.52	24.80	23.97	23.30	22.64
360.0	27.46	26.68	25.96	25.24	24.47	23.80	23.14	22.31	21.70

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	20.98	20.31	19.82	19.04	18.49	17.93	17.38	16.72	16.22
45.0	21.98	21.20	20.59	19.87	19.32	18.71	18.16	17.44	16.94
90.0	21.42	20.81	20.26	19.71	18.99	18.38	17.82	17.05	16.55
135.0	22.58	21.92	21.15	20.54	19.98	19.37	18.65	18.10	17.33
180.0	23.25	22.58	21.92	21.15	20.54	19.76	19.21	18.60	17.88
225.0	22.36	21.70	20.92	20.26	19.54	18.93	18.32	17.77	17.05
270.0	22.75	22.03	21.26	20.65	20.04	19.43	18.65	18.10	17.55
315.0	22.03	21.26	20.59	19.98	19.37	18.65	17.99	17.44	16.94
360.0	20.98	20.31	19.82	19.04	18.49	17.93	17.38	16.72	16.22

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.78	15.22	14.78	14.45	14.12	13.67	13.40	12.95	13.06
45.0	16.38	15.78	15.28	14.83	14.39	14.00	13.67	13.28	12.90
90.0	15.94	15.50	15.00	14.61	14.17	13.84	13.51	13.12	12.95
135.0	16.77	16.16	15.61	15.17	14.67	14.28	13.89	13.56	13.23
180.0	17.33	16.77	16.11	15.61	15.11	14.67	14.23	13.89	13.56
225.0	16.55	15.94	15.55	15.00	14.61	14.17	13.84	13.45	13.17
270.0	16.83	16.33	15.67	15.22	14.78	14.39	13.95	13.56	13.23
315.0	16.33	15.72	15.28	14.83	14.45	14.06	13.67	13.34	12.95
360.0	15.78	15.22	14.78	14.45	14.12	13.67	13.40	12.95	13.06

Intensity data(cd)

C/γ(°)	90.0
0.0	13.06
45.0	13.01
90.0	12.95
135.0	12.95
180.0	13.17
225.0	12.90
270.0	12.90
315.0	13.01
360.0	13.06