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

NATA

Client:
LumCAT: 1-1374-L
Luminaire: 92.70.410.00
Report No: 2023629-B010
Ballast type: AC

Test No: 2023629-C010	Voltage(V): 34.730
LampCAT: FORTIMO SLM C 1204	Current(A): 0.301
Lamp flux(lm): 1660.3	Power (W): 10.453
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1495.58, Efficiency(%): 90.08% , Luminous Efficacy(lm/W): 143.08
Central intensity(cd): 3529.705, Maximum intensity(cd): 3529.705
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=35.6
[C90/270]Total=35.6
Field angle(10%Imax): [C0/180]Total=61.2
[C90/270]Total=61.2
Maximum s/h(1/2): C0_180=0.59 C90_270=0.59
Maximum s/h(1/4): C0_180=0.58 C90_270=0.58
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.08%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.705%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3529.705	0.000	0	0.00%	0.00%
1.0	3527.353	3.377	3.377	0.20%	0.23%
2.0	3520.987	10.116	13.493	0.61%	0.90%
3.0	3498.915	16.789	30.282	1.01%	2.02%
4.0	3467.640	23.319	53.602	1.40%	3.58%
5.0	3418.929	29.626	83.227	1.78%	5.56%
6.0	3360.738	35.629	118.856	2.15%	7.95%
7.0	3292.792	41.298	160.155	2.49%	10.71%
8.0	3210.453	46.542	206.697	2.80%	13.82%
9.0	3119.950	51.304	258.002	3.09%	17.25%
10.0	3009.381	55.468	313.47	3.34%	20.96%
11.0	2885.528	58.902	372.372	3.55%	24.90%
12.0	2740.086	61.496	433.868	3.70%	29.01%
13.0	2586.757	63.216	497.084	3.81%	33.24%
14.0	2422.287	64.115	561.2	3.86%	37.52%
15.0	2251.937	64.170	625.369	3.86%	41.81%
16.0	2075.082	63.403	688.772	3.82%	46.05%
17.0	1894.629	61.819	750.591	3.72%	50.19%
18.0	1729.399	59.752	810.344	3.60%	54.18%
19.0	1565.552	57.325	867.669	3.45%	58.02%
20.0	1388.386	54.065	921.734	3.26%	61.63%
21.0	1247.117	50.607	972.341	3.05%	65.01%
22.0	1138.499	47.940	1020.281	2.89%	68.22%
23.0	1029.155	45.483	1065.765	2.74%	71.26%
24.0	916.323	42.535	1108.3	2.56%	74.11%
25.0	806.903	39.182	1147.482	2.36%	76.73%
26.0	707.032	35.737	1183.219	2.15%	79.11%
27.0	619.697	32.459	1215.678	1.95%	81.28%
28.0	537.760	29.304	1244.982	1.76%	83.24%
29.0	461.089	26.133	1271.115	1.57%	84.99%
30.0	390.319	22.988	1294.102	1.38%	86.53%
31.0	326.835	19.957	1314.06	1.20%	87.86%
32.0	273.786	17.207	1331.267	1.04%	89.01%
33.0	240.899	15.163	1346.43	0.91%	90.03%
34.0	198.768	13.306	1359.735	0.80%	90.92%
35.0	149.095	10.803	1370.539	0.65%	91.64%
36.0	120.892	8.596	1379.135	0.52%	92.21%
37.0	103.608	7.322	1386.457	0.44%	92.70%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	90.766	6.488	1392.945	0.39%	93.14%
39.0	80.207	5.836	1398.781	0.35%	93.53%
40.0	71.801	5.301	1404.082	0.32%	93.88%
41.0	64.515	4.854	1408.936	0.29%	94.21%
42.0	58.675	4.476	1413.412	0.27%	94.51%
43.0	53.361	4.150	1417.562	0.25%	94.78%
44.0	48.746	3.854	1421.416	0.23%	95.04%
45.0	44.829	3.596	1425.012	0.22%	95.28%
46.0	41.273	3.367	1428.379	0.20%	95.51%
47.0	38.242	3.163	1431.542	0.19%	95.72%
48.0	35.675	2.988	1434.53	0.18%	95.92%
49.0	33.226	2.829	1437.36	0.17%	96.11%
50.0	31.185	2.686	1440.045	0.16%	96.29%
51.0	29.192	2.554	1442.6	0.15%	96.46%
52.0	27.525	2.434	1445.033	0.15%	96.62%
53.0	25.961	2.327	1447.36	0.14%	96.78%
54.0	24.577	2.227	1449.587	0.13%	96.93%
55.0	23.249	2.135	1451.722	0.13%	97.07%
56.0	22.114	2.050	1453.772	0.12%	97.20%
57.0	21.055	1.974	1455.746	0.12%	97.34%
58.0	20.080	1.902	1457.648	0.11%	97.46%
59.0	19.194	1.836	1459.484	0.11%	97.59%
60.0	18.336	1.773	1461.257	0.11%	97.71%
61.0	17.616	1.716	1462.973	0.10%	97.82%
62.0	16.890	1.663	1464.636	0.10%	97.93%
63.0	16.246	1.612	1466.247	0.10%	98.04%
64.0	15.644	1.565	1467.812	0.09%	98.14%
65.0	15.125	1.523	1469.335	0.09%	98.25%
66.0	14.593	1.483	1470.818	0.09%	98.34%
67.0	14.087	1.442	1472.26	0.09%	98.44%
68.0	13.596	1.402	1473.662	0.08%	98.53%
69.0	13.133	1.364	1475.026	0.08%	98.63%
70.0	12.717	1.328	1476.353	0.08%	98.71%
71.0	12.282	1.292	1477.645	0.08%	98.80%
72.0	11.846	1.255	1478.9	0.08%	98.88%
73.0	11.465	1.219	1480.119	0.07%	98.97%
74.0	11.050	1.184	1481.302	0.07%	99.05%
75.0	10.662	1.147	1482.45	0.07%	99.12%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.220	1.109	1483.558	0.07%	99.20%
77.0	9.853	1.070	1484.628	0.06%	99.27%
78.0	9.472	1.034	1485.663	0.06%	99.34%
79.0	9.071	0.996	1486.659	0.06%	99.40%
80.0	8.697	0.958	1487.617	0.06%	99.47%
81.0	8.358	0.922	1488.539	0.06%	99.53%
82.0	8.026	0.889	1489.428	0.05%	99.59%
83.0	7.729	0.856	1490.284	0.05%	99.65%
84.0	7.445	0.827	1491.111	0.05%	99.70%
85.0	7.203	0.799	1491.911	0.05%	99.75%
86.0	6.961	0.774	1492.685	0.05%	99.81%
87.0	6.760	0.751	1493.436	0.05%	99.86%
88.0	6.566	0.730	1494.166	0.04%	99.91%
89.0	6.414	0.711	1494.877	0.04%	99.95%
90.0	6.338	0.699	1495.576	0.04%	100.00%

Zonal flux distribution table

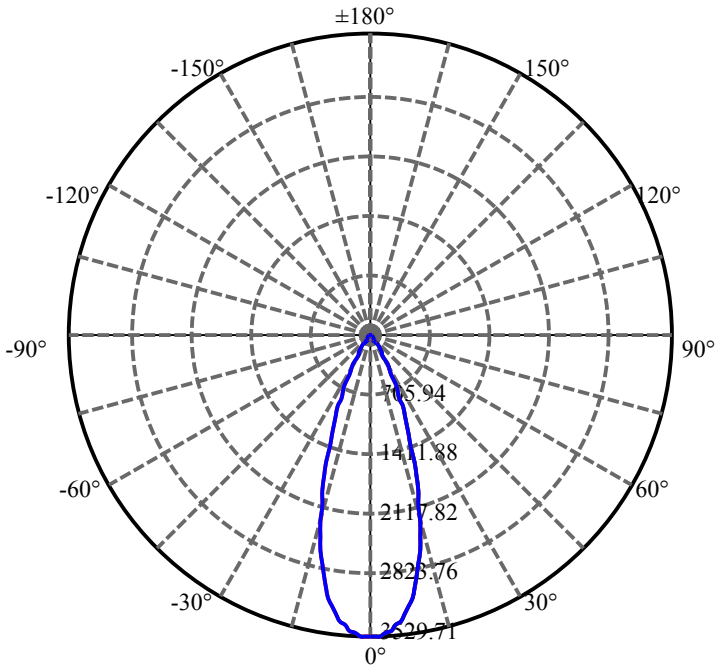
ZONAL LUMEN SUMMARY

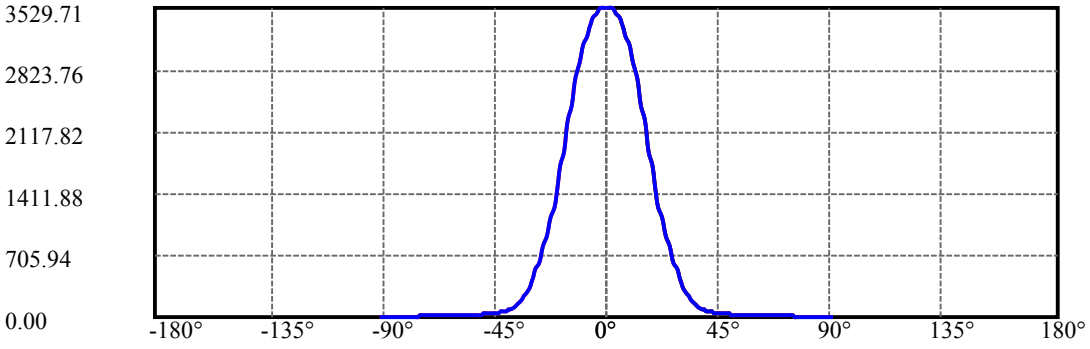
Zone	Lumens	%Lamp	%Fixt
0-30	1294.10	77.94%	86.53%
0-40	1404.08	84.57%	93.88%
0-60	1461.26	88.01%	97.71%
0-90	1494.88	90.03%	99.95%
0-120	1494.88	90.03%	99.95%
0-180	1495.58	90.08%	100.00%
60-90	33.62	2.02%	2.25%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.41	1196.46	72.06%	80.00%

ZONAL LUMEN SUMMARY

0-10	313.47
10-20	608.26
20-30	372.37
30-40	109.98
40-50	35.96
50-60	21.21
60-70	15.10
70-80	11.26
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):

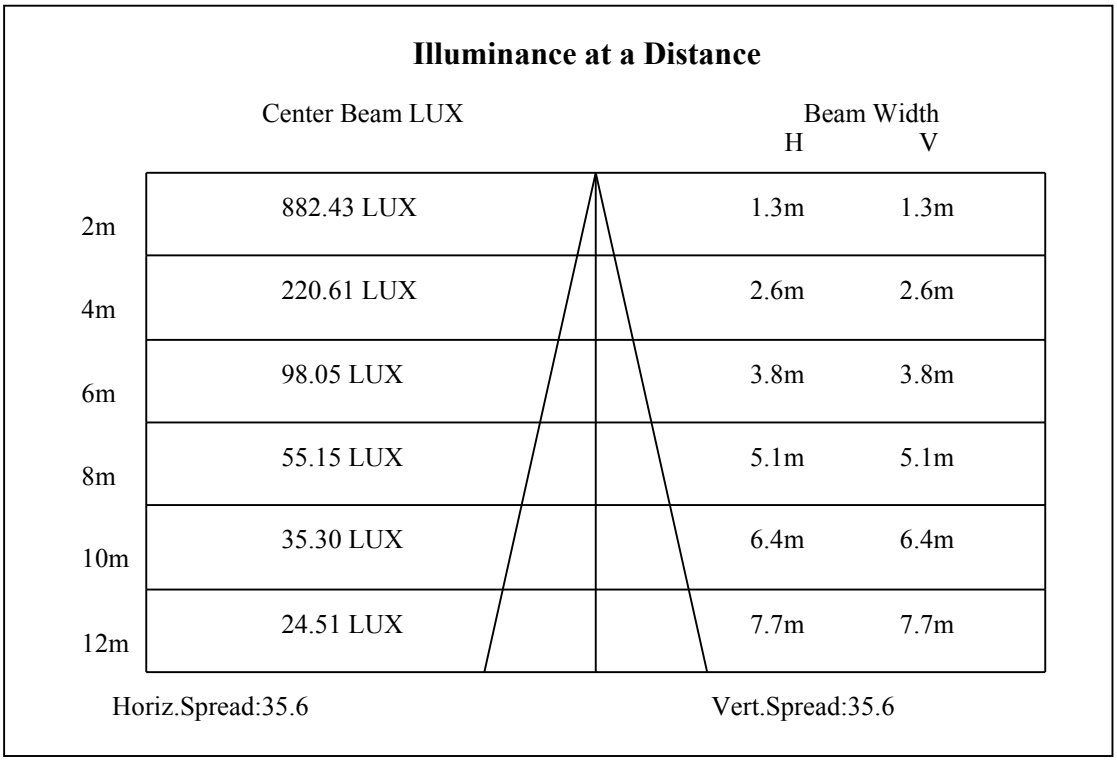
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:30.6 Right:30.6
:C90/270Left:30.6 Right:30.6

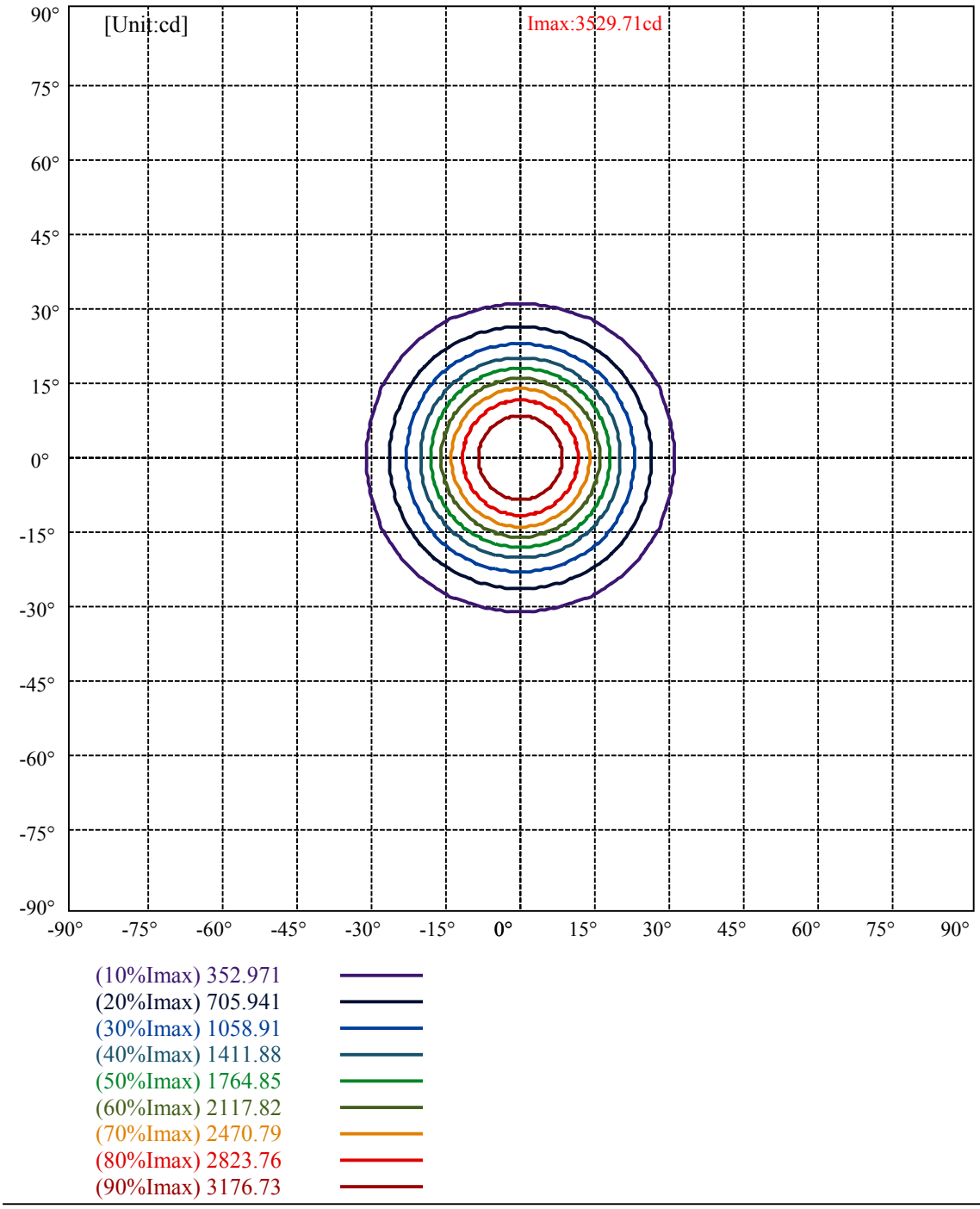
Beam Angle(50%Imax):C0/180Left:17.8 Right:17.8
:C90/270Left:17.8 Right:17.8

Lux distance Curve



Equipment: GMS1980 Date: 2023/6/29 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

ISO-Intensity(V-H)

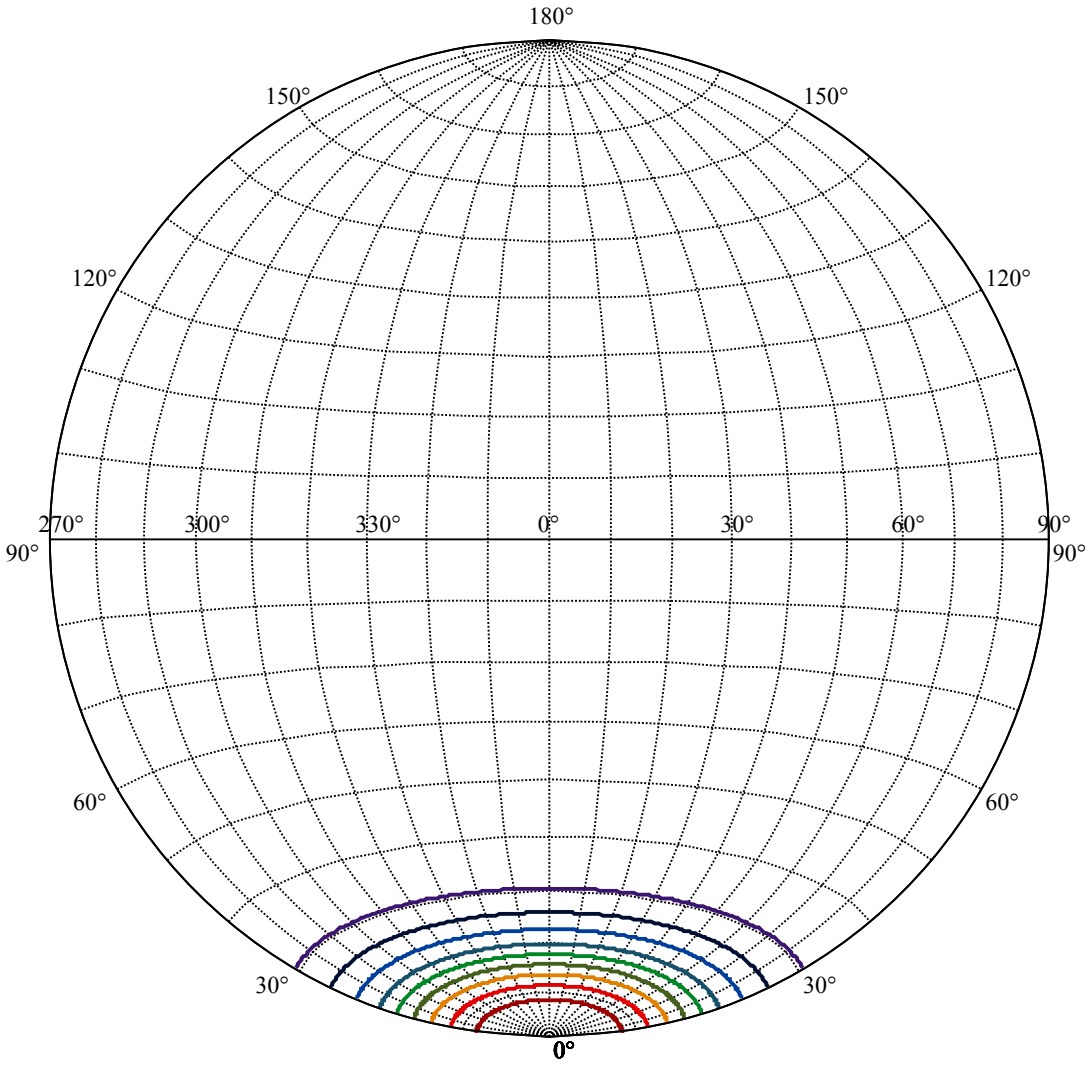


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/6/29
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



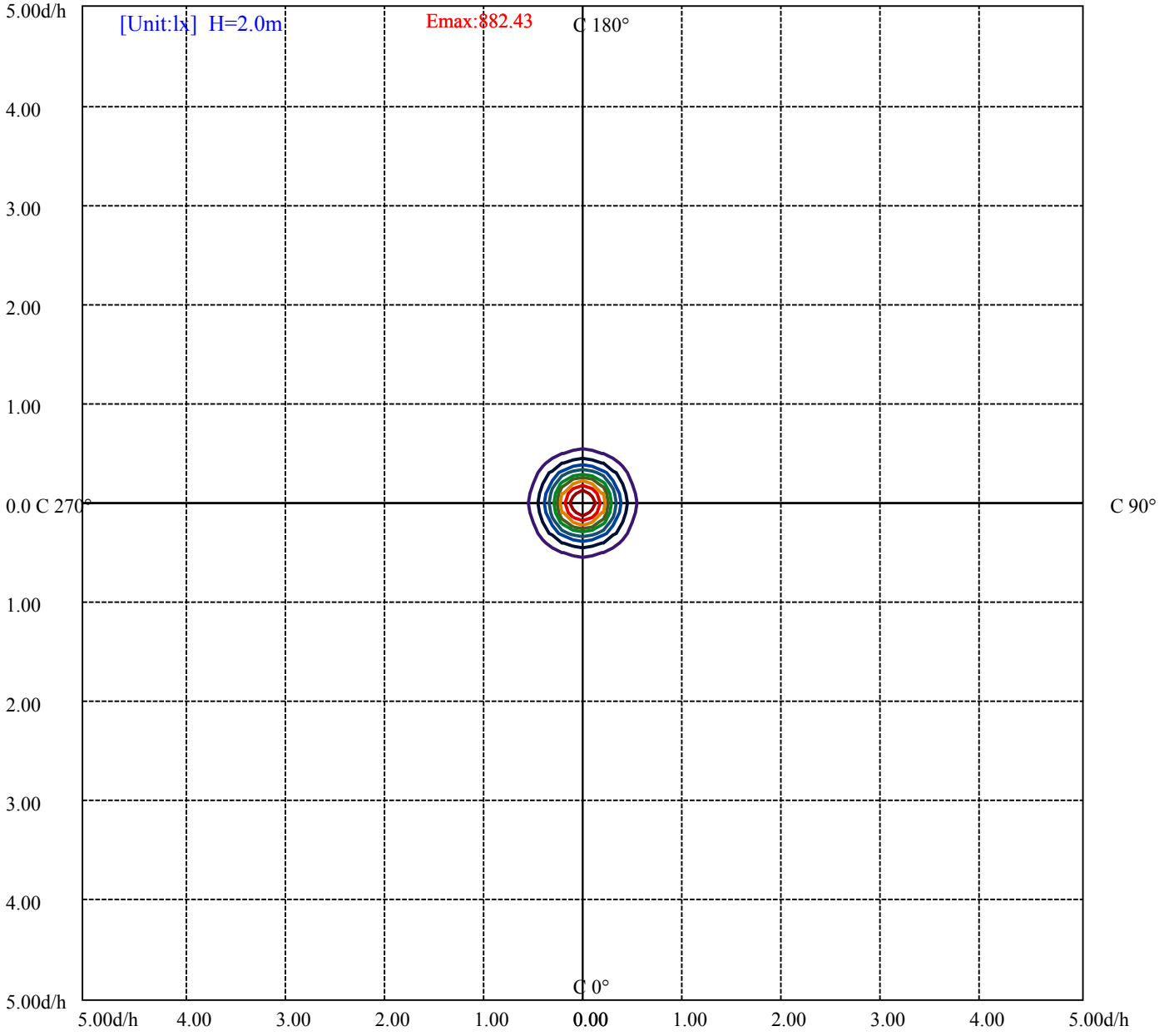
House [Unit:cd] Road

Imax:3529.71

(10%Imax) 352.971
(20%Imax) 705.941
(30%Imax) 1058.91
(40%Imax) 1411.88
(50%Imax) 1764.85
(60%Imax) 2117.82
(70%Imax) 2470.79
(80%Imax) 2823.76
(90%Imax) 3176.73

Equipment: GMS1980 Date: 2023/6/29 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

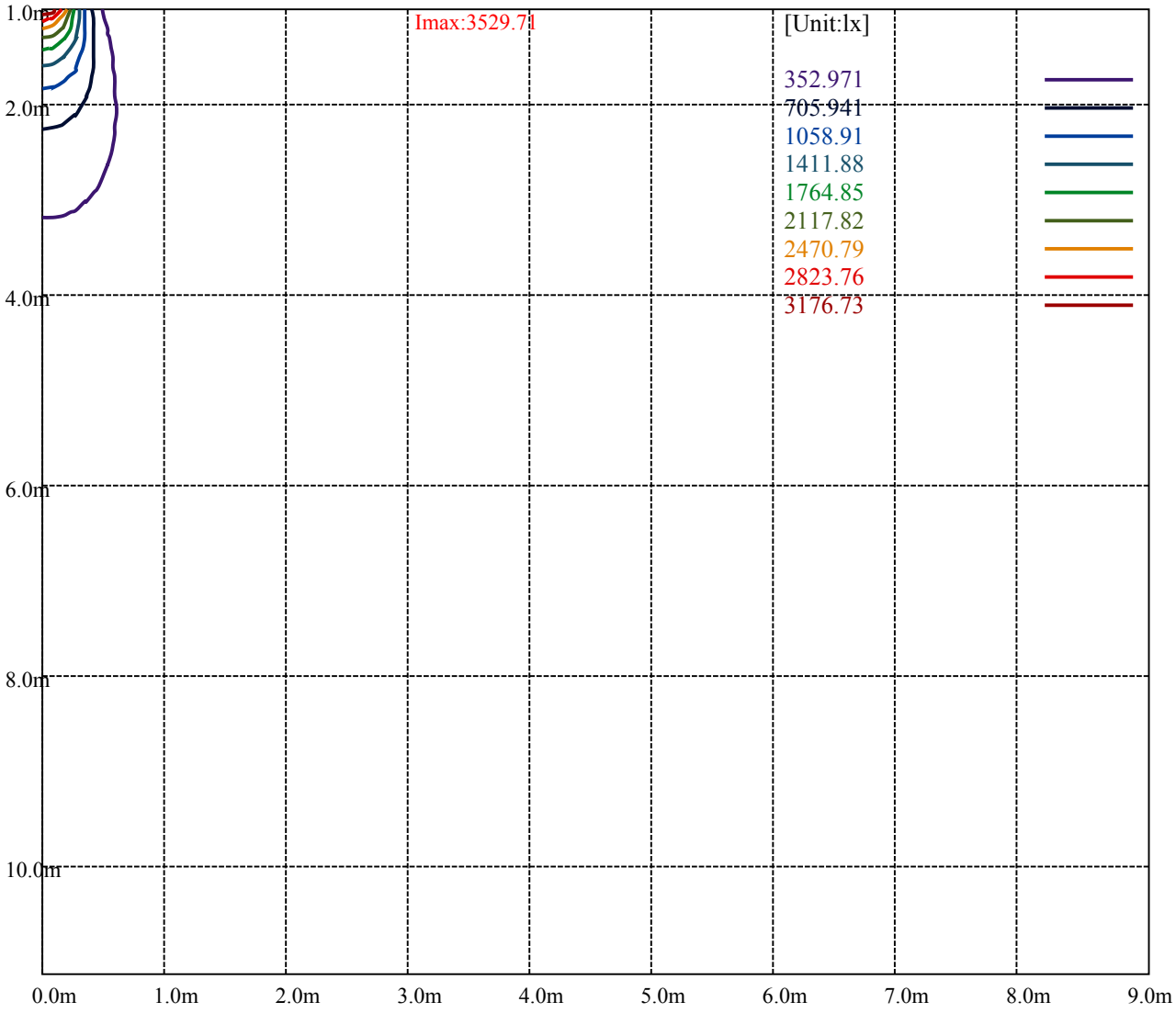
ISO illuminance diagram



(10%Emax) 88.24275
(20%Emax) 176.4852
(30%Emax) 264.7275
(40%Emax) 352.97
(50%Emax) 441.2125
(60%Emax) 529.455
(70%Emax) 617.6975
(80%Emax) 705.94
(90%Emax) 794.1825

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2023/6/29
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/6/29
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

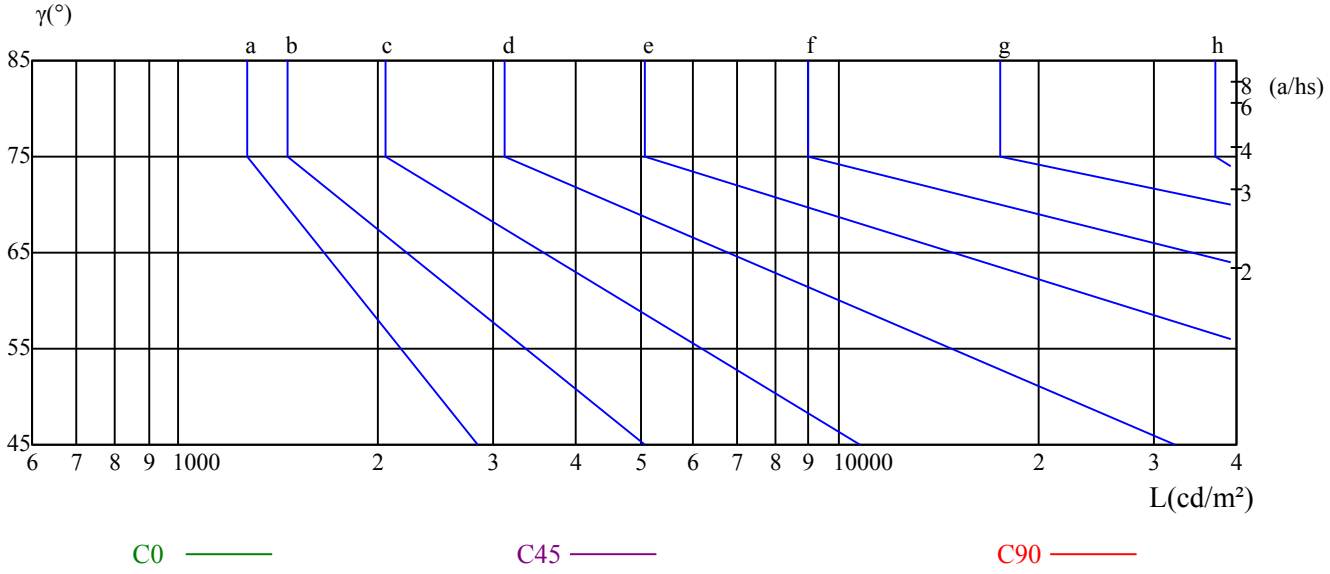
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

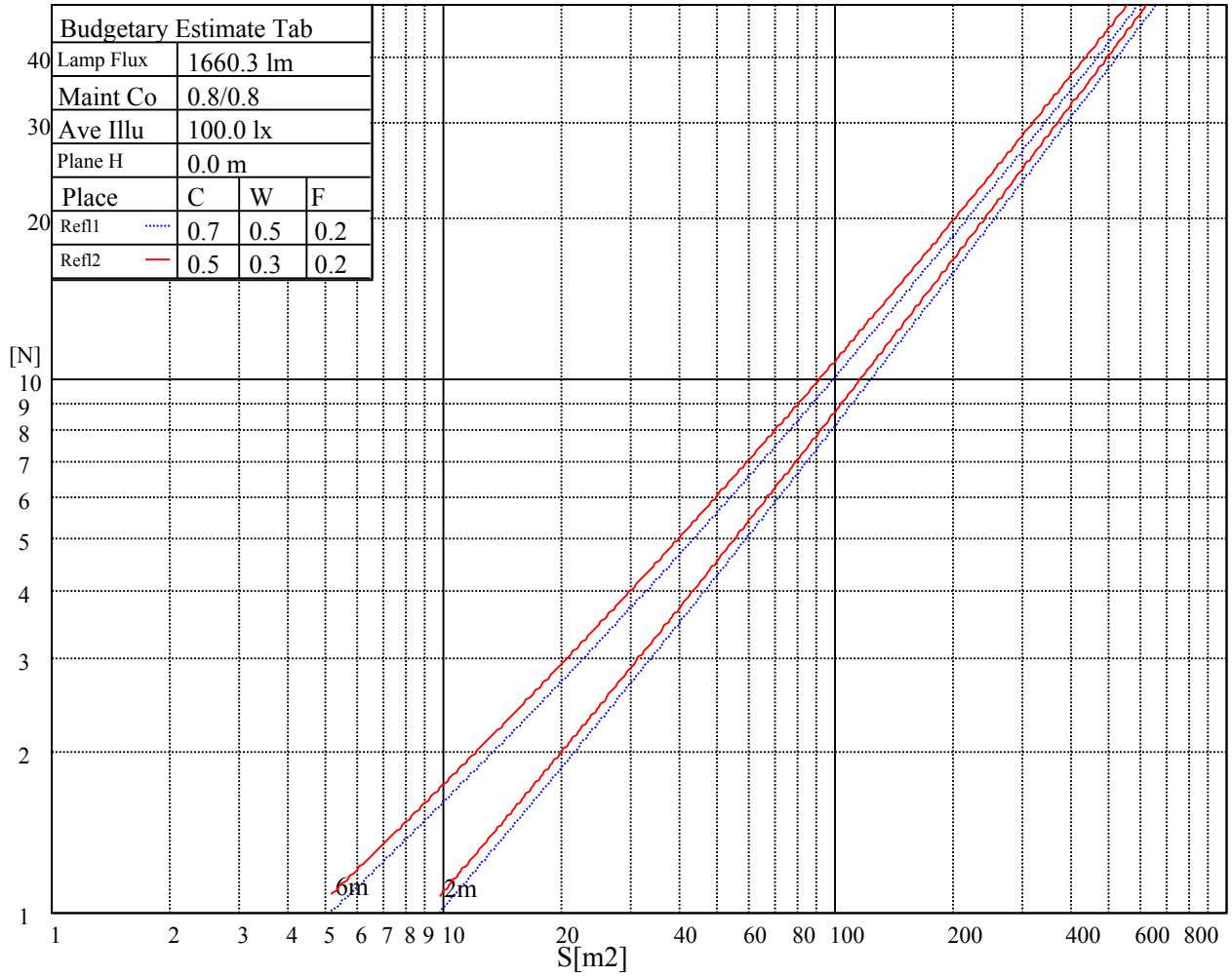
Luminance Limitting Curve



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

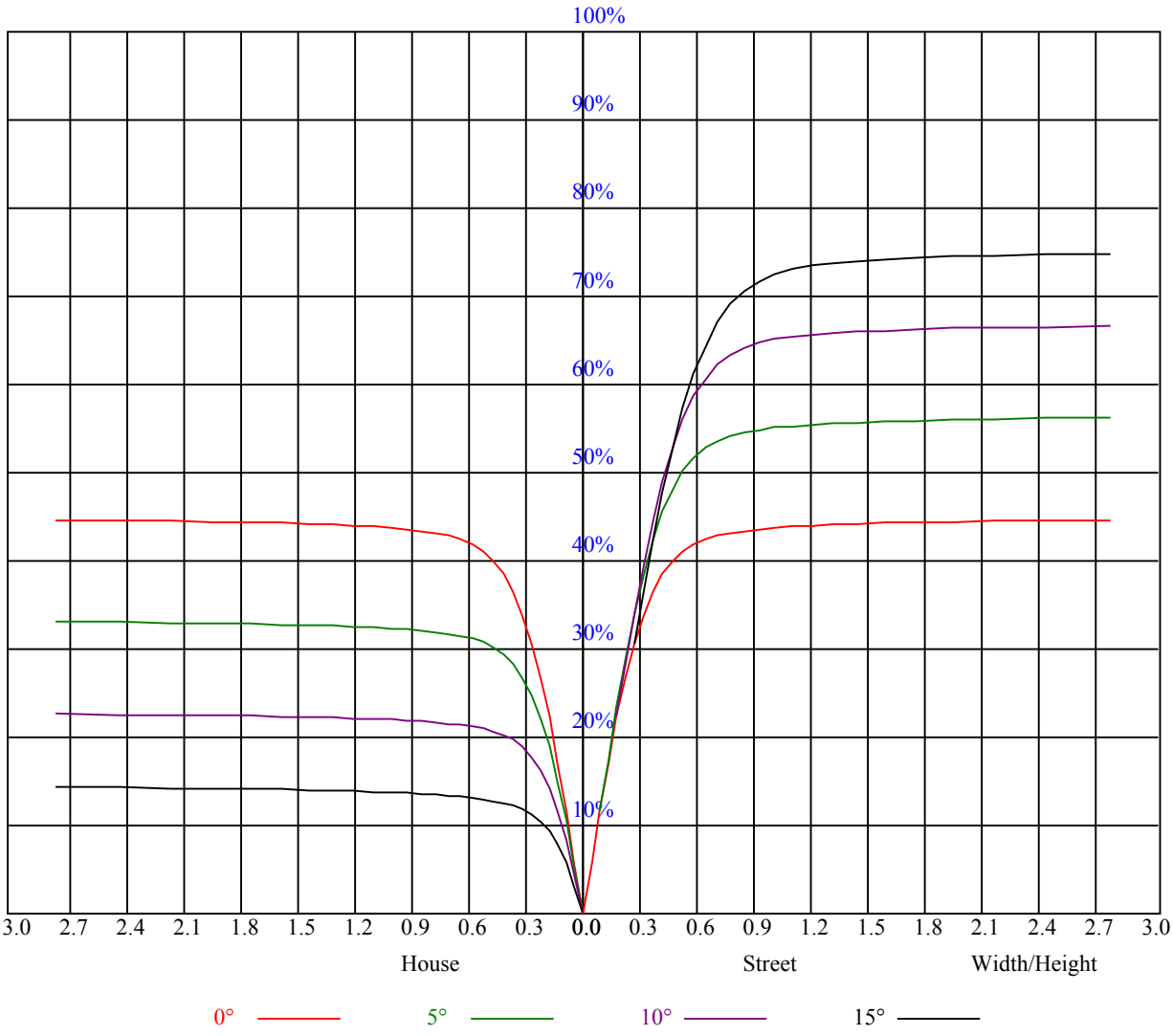


Equipment: GMS1980 Date: 2023/6/29 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.05	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	1.00	0.98	0.96	0.98	0.96	0.95	0.95	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.87	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	0.81	0.86	0.83	0.80	0.83	0.81	0.79	0.81	0.79	0.78	0.76
4	0.84	0.80	0.77	0.84	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.78	0.76	0.74	0.73
5	0.80	0.76	0.73	0.80	0.75	0.72	0.78	0.74	0.72	0.77	0.73	0.71	0.75	0.73	0.70	0.69
6	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.72	0.70	0.67	0.66
7	0.73	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.63
8	0.70	0.66	0.63	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61
9	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.65	0.62	0.59	0.58
10	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.56

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/6/29	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	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	3533.72	3524.86	3500.51	3458.44	3416.37	3346.62	3276.88	3170.60	3079.27
45.0	3532.06	3527.08	3525.97	3504.93	3476.70	3415.26	3364.34	3299.57	3199.94
90.0	3520.43	3517.11	3500.51	3464.53	3419.69	3366.00	3292.93	3215.44	3124.10
135.0	3532.61	3524.31	3527.63	3509.92	3481.69	3439.62	3379.84	3320.61	3224.29
180.0	3533.72	3526.52	3531.50	3531.50	3509.92	3483.35	3432.42	3382.60	3327.25
225.0	3532.06	3535.93	3524.31	3505.49	3465.08	3425.78	3368.76	3308.43	3232.59
270.0	3520.43	3528.74	3534.83	3520.99	3504.38	3465.08	3423.01	3364.89	3295.70
315.0	3532.61	3534.27	3522.65	3495.52	3467.29	3409.73	3347.73	3280.20	3200.49
360.0	3533.72	3524.86	3500.51	3458.44	3416.37	3346.62	3276.88	3170.60	3079.27

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2961.92	2844.01	2663.01	2510.78	2308.74	2139.91	1975.51	1803.92	1622.36
45.0	3109.16	3004.54	2887.19	2726.66	2578.87	2419.45	2256.71	2041.94	1878.09
90.0	3025.57	2879.99	2753.23	2610.97	2457.09	2255.60	2087.88	1921.82	1725.32
135.0	3144.03	3052.14	2936.45	2785.89	2645.85	2491.96	2330.33	2119.99	1955.59
180.0	3255.84	3157.31	3064.87	2954.17	2798.62	2660.24	2510.23	2352.47	2153.20
225.0	3151.23	3022.25	2909.33	2752.13	2608.76	2460.97	2263.35	2099.51	1932.89
270.0	3227.06	3143.48	3016.16	2901.03	2769.29	2625.37	2429.97	2267.78	2064.08
315.0	3084.80	2971.33	2853.98	2679.06	2526.84	2324.80	2161.50	1993.23	1825.51
360.0	2961.92	2844.01	2663.01	2510.78	2308.74	2139.91	1975.51	1803.92	1622.36

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1482.87	1254.26	1099.99	1070.82	957.89	853.22	757.24	649.02	569.09
45.0	1717.01	1536.56	1402.60	1244.85	1123.62	1009.04	905.53	784.86	691.86
90.0	1578.63	1440.80	1096.06	1096.06	1037.88	901.99	803.51	715.33	631.25
135.0	1797.28	1650.04	1478.44	1346.70	1188.94	1067.72	957.56	831.91	738.36
180.0	1988.80	1819.42	1665.53	1495.05	1362.20	1228.24	1091.52	969.74	846.30
225.0	1739.15	1598.56	1457.96	1234.33	1083.38	1055.09	943.83	839.99	722.70
270.0	1899.13	1733.62	1549.29	1414.78	1279.72	1152.96	1010.15	896.12	799.80
315.0	1632.32	1491.17	1357.21	1074.36	1074.36	964.98	861.25	768.25	656.88
360.0	1482.87	1254.26	1099.99	1070.82	957.89	853.22	757.24	649.02	569.09

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	494.36	411.55	351.50	297.19	236.36	193.96	159.42	127.53	109.60
45.0	605.51	529.13	443.33	381.33	323.21	283.36	283.36	168.99	138.88
90.0	535.71	467.18	402.92	344.63	278.21	230.60	189.59	149.68	126.93
135.0	649.80	568.98	481.52	416.76	356.42	301.07	288.34	227.72	158.31
180.0	748.88	660.87	578.39	486.50	417.86	355.31	298.85	285.57	225.23
225.0	636.29	555.64	482.24	397.16	336.05	266.69	218.37	176.74	137.94
270.0	709.02	604.41	527.46	438.90	374.13	317.12	290.55	290.55	165.62
315.0	578.00	504.33	421.35	360.08	292.43	242.17	198.72	163.35	130.25
360.0	494.36	411.55	351.50	297.19	236.36	193.96	159.42	127.53	109.60

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	97.48	87.18	78.16	69.08	63.05	56.52	52.14	48.21	43.90
45.0	111.43	96.81	83.03	73.73	66.20	58.56	53.64	49.38	45.50
90.0	111.21	96.26	85.69	76.89	67.92	61.77	56.41	50.93	47.22
135.0	127.59	111.32	99.30	86.41	77.61	70.13	62.27	56.96	52.48
180.0	155.43	123.66	106.06	94.05	81.81	73.45	66.48	60.28	53.91
225.0	115.41	99.36	88.90	78.21	71.02	64.54	59.06	53.25	49.10
270.0	136.67	114.75	96.04	85.58	76.72	67.48	61.17	55.41	49.54
315.0	111.92	99.53	88.95	77.72	70.08	63.66	58.23	52.48	48.32
360.0	97.48	87.18	78.16	69.08	63.05	56.52	52.14	48.21	43.90

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	40.85	38.08	35.15	33.05	31.11	29.39	27.46	26.07	24.74
45.0	41.40	38.47	35.92	33.65	31.11	29.34	27.73	25.96	24.63
90.0	43.78	40.80	37.59	35.26	33.16	31.27	29.17	27.68	25.91
135.0	48.49	44.06	40.96	38.19	35.15	32.99	31.00	29.28	27.34
180.0	49.49	44.73	41.52	38.58	35.98	33.21	31.16	29.39	27.79
225.0	45.39	41.40	38.69	36.20	33.43	31.50	29.72	27.73	26.24
270.0	45.33	41.85	38.03	35.37	32.94	30.83	28.51	26.90	25.35
315.0	43.90	40.80	38.08	35.09	32.94	30.94	28.78	27.18	25.68
360.0	40.85	38.08	35.15	33.05	31.11	29.39	27.46	26.07	24.74

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	23.58	22.25	21.26	20.09	19.26	18.49	17.60	16.94	16.33
45.0	23.25	22.14	21.15	20.26	19.21	18.43	17.71	17.05	16.33
90.0	24.63	23.53	22.20	21.20	20.26	19.43	18.43	17.71	17.05
135.0	25.91	24.30	23.14	22.03	20.87	19.93	18.99	18.27	17.38
180.0	25.85	24.58	23.41	22.03	21.09	19.98	19.26	18.49	17.60
225.0	24.96	23.75	22.42	21.42	20.54	19.71	18.76	18.05	17.21
270.0	24.02	22.53	21.48	20.54	19.43	18.60	17.71	17.10	16.50
315.0	24.41	22.92	21.86	20.87	19.98	18.99	18.21	17.33	16.72
360.0	23.58	22.25	21.26	20.09	19.26	18.49	17.60	16.94	16.33

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.67	15.11	14.67	14.17	13.56	13.12	12.68	12.29	11.85
45.0	15.72	15.17	14.72	14.12	13.73	13.28	12.79	12.40	11.90
90.0	16.44	15.72	15.22	14.67	14.12	13.62	13.06	12.62	12.23
135.0	16.72	16.11	15.61	14.89	14.45	13.95	13.40	12.95	12.57
180.0	16.94	16.38	15.83	15.28	14.72	14.28	13.84	13.45	12.95
225.0	16.66	16.05	15.39	14.95	14.45	13.89	13.45	13.06	12.62
270.0	15.78	15.22	14.72	14.28	13.78	13.34	12.95	12.51	12.07
315.0	16.05	15.39	14.83	14.39	13.89	13.28	12.90	12.45	12.07
360.0	15.67	15.11	14.67	14.17	13.56	13.12	12.68	12.29	11.85

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.46	11.07	10.63	10.24	9.74	9.35	9.02	8.64	8.25
45.0	11.51	11.18	10.74	10.41	10.02	9.69	9.30	8.91	8.58
90.0	11.73	11.35	10.96	10.57	10.19	9.74	9.35	8.97	8.64
135.0	12.01	11.62	11.24	10.85	10.46	10.07	9.69	9.24	8.91
180.0	12.51	12.07	11.73	11.35	10.79	10.46	10.07	9.69	9.24
225.0	12.12	11.79	11.35	10.96	10.46	10.07	9.74	9.24	8.86
270.0	11.73	11.40	10.90	10.57	10.13	9.80	9.47	9.08	8.64
315.0	11.68	11.24	10.85	10.35	9.96	9.63	9.13	8.80	8.47
360.0	11.46	11.07	10.63	10.24	9.74	9.35	9.02	8.64	8.25

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.97	7.64	7.42	7.20	6.92	6.70	6.53	6.31	6.37
45.0	8.30	7.97	7.64	7.31	7.14	6.86	6.70	6.53	6.31
90.0	8.25	7.92	7.64	7.36	7.14	6.86	6.70	6.53	6.37
135.0	8.58	8.14	7.86	7.53	7.25	7.03	6.81	6.64	6.48
180.0	8.86	8.47	8.14	7.86	7.58	7.31	7.09	6.81	6.59
225.0	8.47	8.19	7.86	7.58	7.31	7.09	6.86	6.64	6.48
270.0	8.36	8.03	7.69	7.47	7.20	7.03	6.81	6.59	6.42
315.0	8.08	7.86	7.58	7.25	7.09	6.81	6.59	6.48	6.31
360.0	7.97	7.64	7.42	7.20	6.92	6.70	6.53	6.31	6.37

Intensity data(cd)

C/γ(°)	90.0
0.0	6.37
45.0	6.37
90.0	6.37
135.0	6.25
180.0	6.42
225.0	6.37
270.0	6.25
315.0	6.31
360.0	6.37