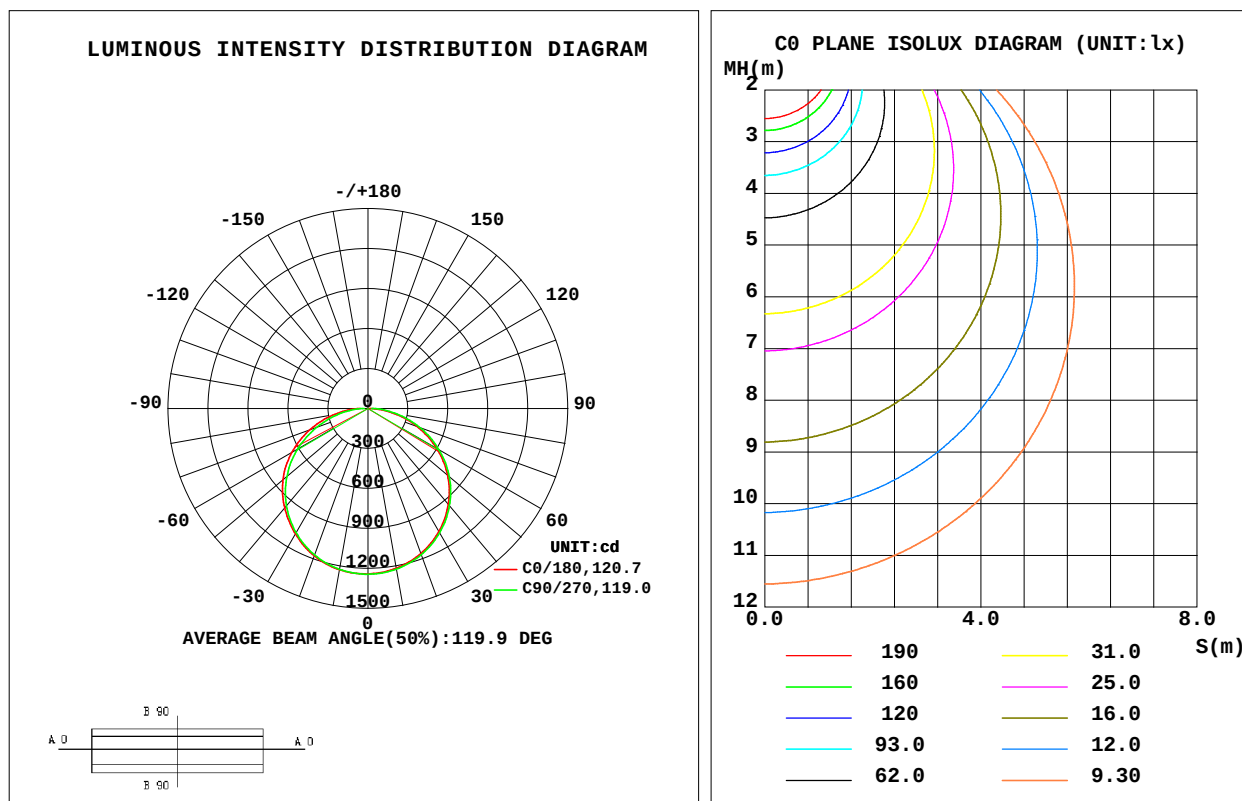


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.24V I:0.2402A P:28.448W PF:0.9849 Freq:59.98Hz Lamp Flux:3904.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 6500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.26 lm/W			
MODEL		I _{max} (cd)	1244	S/MH(C0/180)	1.30
NOMINAL POWER(W)	30w	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120-277v	TOTAL FLUX(lm)	3904.8	h UP, DN(C0-180)	0.0,48.9
NOMINAL FLUX(lm)	3904.82	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,51.1
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	h down(%)	100.0	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 贏
Test Date:2024-03-30

α Range: 0 - 90DEG
α Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C90	C180	C270					g	F zone	F total	%lum, lamp
10	1217	1225	1229	1226					0- 10	117.7	117.7	3.01, 3.01
20	1159	1168	1178	1171					10- 20	339.2	456.9	11.7, 11.7
30	1065	1077	1089	1078					20- 30	519.8	976.7	25, 25
40	938.6	951.8	973.4	952.2					30- 40	638.0	1615	41.4, 41.4
50	780.9	797.6	833.8	795.3					40- 50	680.1	2295	58.8, 58.8
60	594.4	614.6	659.9	610.7					50- 60	638.1	2933	75.1, 75.1
70	388.8	411.2	461.6	407.3					60- 70	514.5	3447	88.3, 88.3
80	182.5	203.8	252.7	202.8					70- 80	330.6	3778	96.7, 96.7
90	6.062	28.15	60.77	26.96					80- 90	126.9	3905	100, 100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

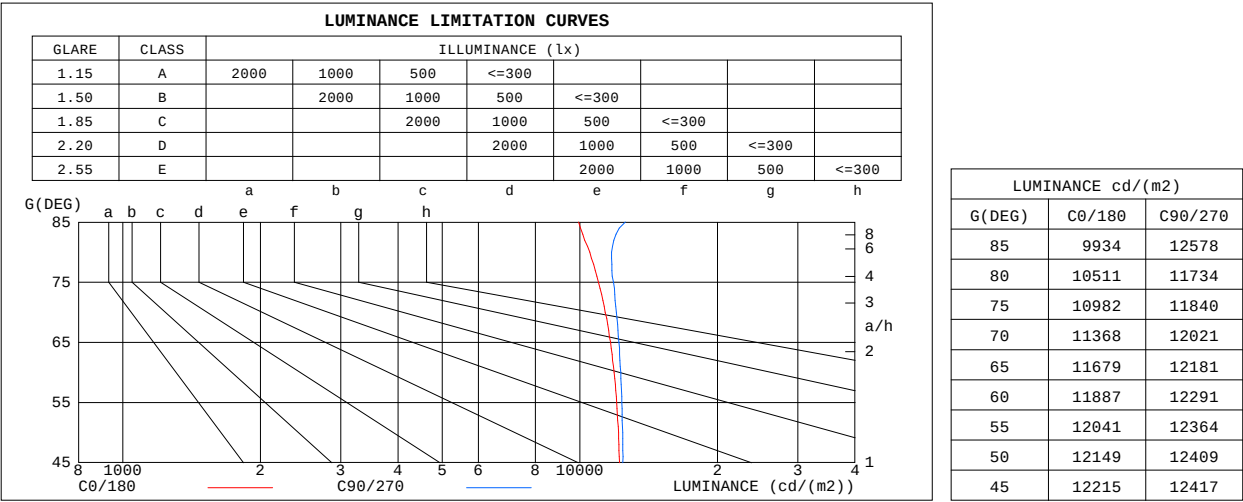
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:120.24V I:0.2402A P:28.448W PF:0.9849 Freq:59.98Hz Lamp Flux:3904.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 6500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

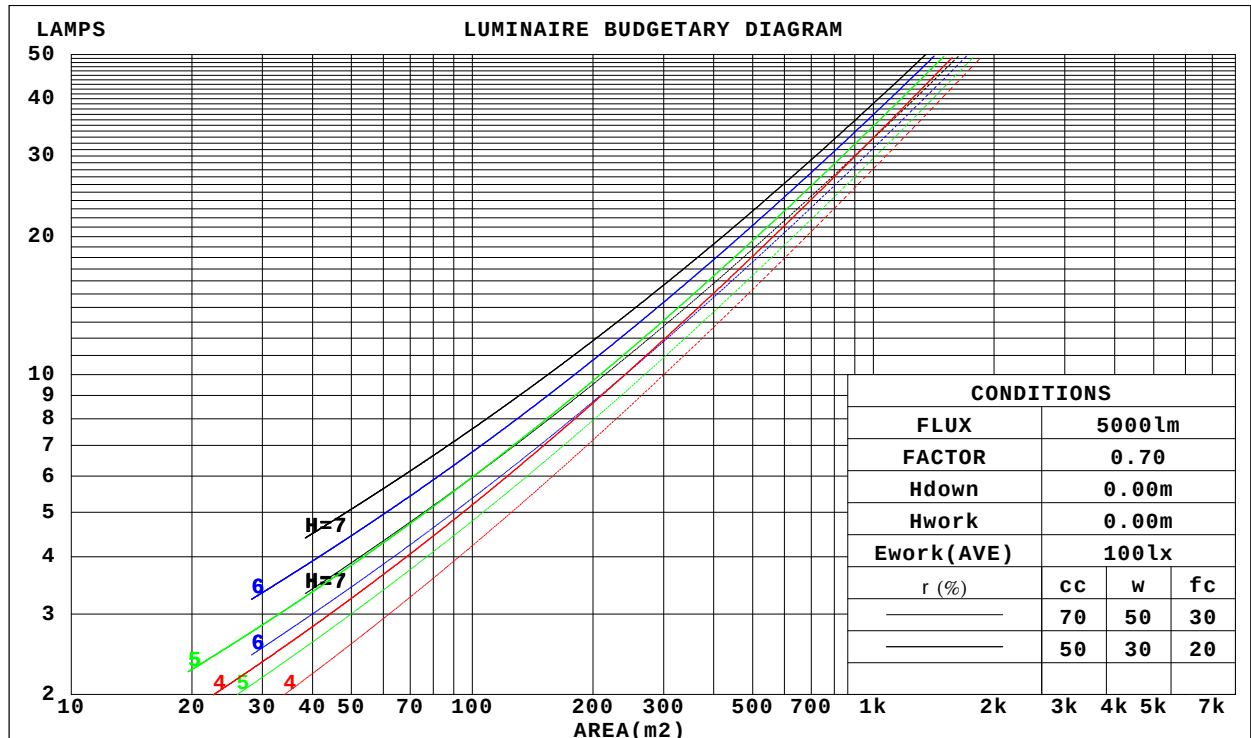
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.24V I:0.2402A P:28.448W PF:0.9849 Freq:59.98Hz Lamp Flux:3904.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 6500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

r CC	80%			70%			50%			30%			10%			0
r W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.03	.98	.94	1.00	.96	.92	.96	.92	.89	.92	.89	.86	.88	.86	.84	.82
2.0	.89	.81	.75	.87	.80	.74	.83	.78	.73	.80	.75	.71	.77	.73	.69	.67
3.0	.77	.69	.62	.76	.68	.61	.73	.66	.60	.70	.64	.59	.67	.62	.58	.56
4.0	.68	.59	.52	.67	.58	.52	.64	.57	.51	.62	.56	.50	.60	.54	.50	.47
5.0	.61	.52	.45	.60	.51	.44	.58	.50	.44	.56	.49	.43	.54	.48	.43	.41
6.0	.55	.45	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.48	.42	.37	.35
7.0	.49	.40	.34	.49	.40	.34	.47	.39	.34	.46	.39	.33	.44	.38	.33	.31
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.28
9.0	.41	.33	.27	.41	.33	.27	.40	.32	.27	.38	.32	.27	.37	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.29	.24	.36	.29	.24	.35	.29	.24	.22



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:8.300m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:120.24V I:0.2402A P:28.448W PF:0.9849 Freq:59.98Hz Lamp Flux:3904.82x1 lm					
NAME:			TYPE:		WEIGHT:
SPEC.:30w 6500k			DIM.:		SERIAL No.:
MFR.:			SUR.:		Shielding Angle:

r c c	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r f c	20%			20%			20%			20%			20%			0
R C R	R C R:Room Cavity Ratio Wall Exitance Coefficients(W E C)															
0.0																
1.0	.335	.190	.060	.328	.187	.059	.314	.180	.058	.302	.174	.056	.290	.168	.054	
2.0	.308	.169	.052	.302	.166	.051	.290	.161	.050	.279	.157	.049	.269	.152	.048	
3.0	.282	.150	.045	.277	.148	.045	.266	.144	.044	.256	.141	.043	.247	.137	.042	
4.0	.259	.134	.039	.254	.133	.039	.244	.130	.039	.236	.127	.038	.228	.124	.038	
5.0	.238	.121	.035	.233	.120	.035	.225	.117	.034	.217	.115	.034	.210	.112	.034	
6.0	.220	.110	.031	.216	.109	.031	.208	.107	.031	.201	.105	.031	.195	.103	.030	
7.0	.204	.101	.029	.200	.100	.028	.194	.098	.028	.187	.096	.028	.182	.094	.028	
8.0	.190	.093	.026	.187	.092	.026	.181	.090	.026	.175	.089	.026	.170	.087	.025	
9.0	.177	.086	.024	.175	.085	.024	.169	.084	.024	.164	.082	.024	.160	.081	.023	
10.0	.166	.080	.022	.164	.079	.022	.159	.078	.022	.155	.077	.022	.151	.076	.022	

r c c	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r f c	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.182	.156	.132	.156	.134	.114	.107	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.174	.132	.096	.149	.113	.083	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.167	.114	.073	.143	.099	.063	.098	.069	.044	.057	.040	.026	.018	.013	.009	
4.0	.159	.101	.057	.137	.087	.049	.094	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.152	.091	.046	.130	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.144	.083	.038	.124	.071	.033	.086	.050	.024	.050	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.028	.082	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.131	.070	.028	.112	.061	.025	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.119	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:8.300m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:120.24V I:0.2402A P:28.448W PF:0.9849 Freq:59.98Hz Lamp Flux:3904.82x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:30w 6500k					DIM.:			SERIAL No.:			
MFR.:					SUR.:			Shielding Angle:			
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H y = 2H	21.5	23.1	21.8	23.3	23.5	21.6	23.2	21.9	23.4	23.6	
	3H	23.1	24.6	23.4	24.8	25.1	23.3	24.8	23.6	25.0	25.3
	4H	23.8	25.2	24.2	25.5	25.8	24.1	25.5	24.4	25.7	26.0
	6H	24.4	25.7	24.7	26.0	26.3	24.7	26.0	25.0	26.3	26.6
	8H	24.6	25.9	24.9	26.1	26.4	24.9	26.2	25.3	26.5	26.8
	12H	24.7	25.9	25.1	26.2	26.6	25.1	26.3	25.5	26.6	26.9
4H	2H	22.2	23.5	22.5	23.8	24.1	22.2	23.6	22.6	23.9	24.2
	3H	24.0	25.2	24.4	25.5	25.8	24.2	25.4	24.5	25.7	26.0
	4H	24.9	26.0	25.2	26.3	26.6	25.1	26.2	25.4	26.5	26.8
	6H	25.5	26.5	25.9	26.9	27.3	25.8	26.8	26.2	27.2	27.5
	8H	25.8	26.7	26.2	27.1	27.5	26.1	27.1	26.5	27.4	27.8
	12H	26.0	26.9	26.4	27.2	27.7	26.4	27.2	26.8	27.6	28.0
8H	4H	25.2	26.1	25.6	26.5	26.9	25.4	26.3	25.8	26.7	27.1
	6H	26.1	26.8	26.5	27.3	27.7	26.3	27.1	26.7	27.5	27.9
	8H	26.4	27.1	26.9	27.6	28.0	26.7	27.4	27.2	27.8	28.3
	12H	26.7	27.3	27.2	27.8	28.3	27.1	27.7	27.6	28.2	28.6
12H	4H	25.2	26.1	25.7	26.5	26.9	25.4	26.3	25.8	26.6	27.0
	6H	26.2	26.9	26.6	27.3	27.7	26.4	27.1	26.8	27.5	28.0
	8H	26.6	27.2	27.1	27.6	28.1	26.9	27.5	27.3	27.9	28.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3					

CIE Pub.117, 3905 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.7$)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 贏
Test Date:2024-03-30

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:120.24V I:0.2402A P:28.448W PF:0.9849 Freq:59.98Hz Lamp Flux:3904.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 6500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	54	43	36	30
0.80	66	54	46	65	53	46	63	52	45	38
1.00	74	62	55	73	62	55	70	63	54	47
1.25	81	70	63	80	69	62	77	68	61	54
1.50	86	76	68	85	75	68	81	73	67	59
2.00	93	84	77	91	83	77	88	81	75	67
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	94	88	99	92	87	95	89	84	76
4.00	105	99	94	103	97	93	98	94	90	81
5.00	108	102	98	105	100	96	101	97	93	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

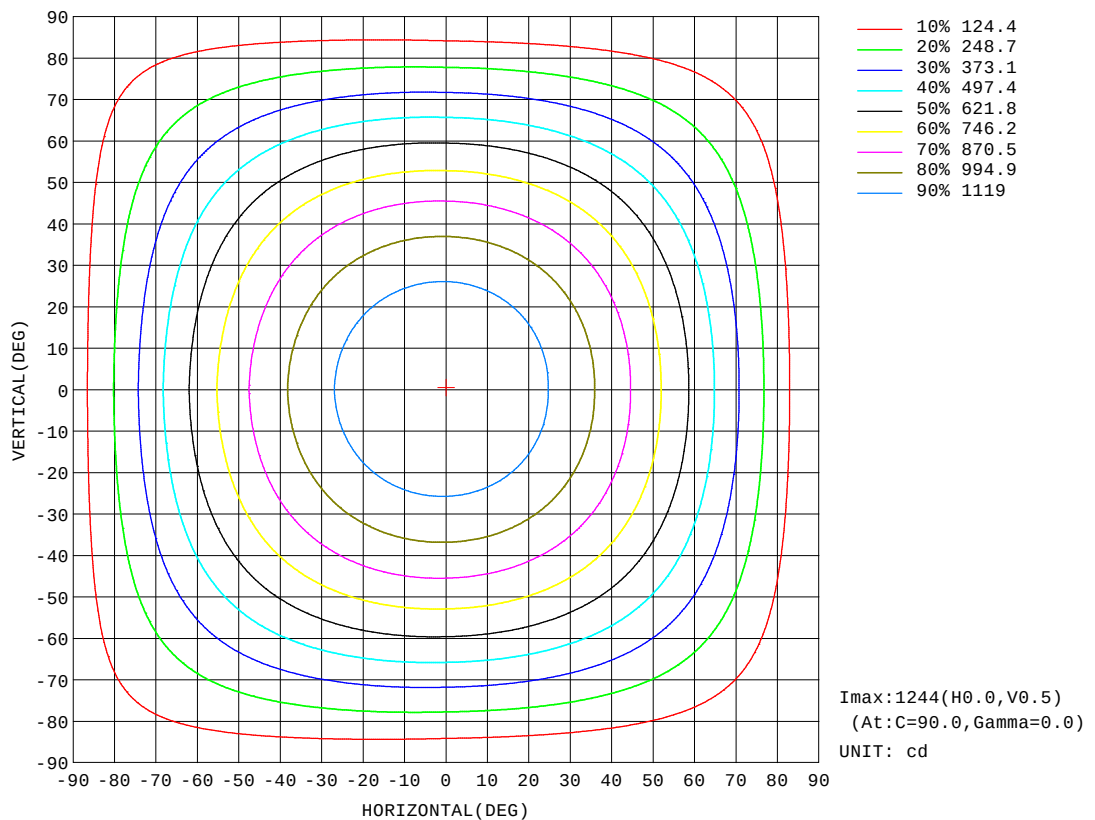
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:8.300m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:120.24V I:0.2402A P:28.448W PF:0.9849 Freq:59.98Hz Lamp Flux:3904.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 6500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 贏
Test Date:2024-03-30

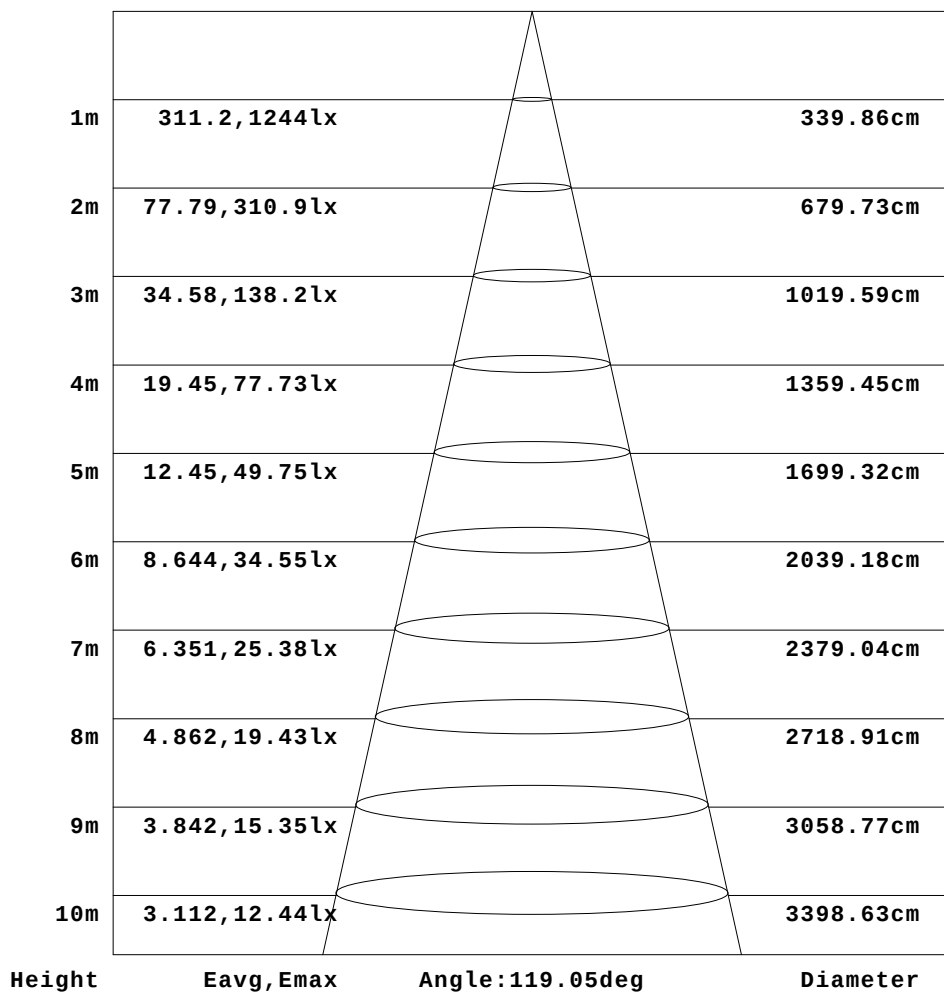
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.24V I:0.2402A P:28.448W PF:0.9849 Freq:59.98Hz Lamp Flux:3904.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 6500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:2933 lm



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

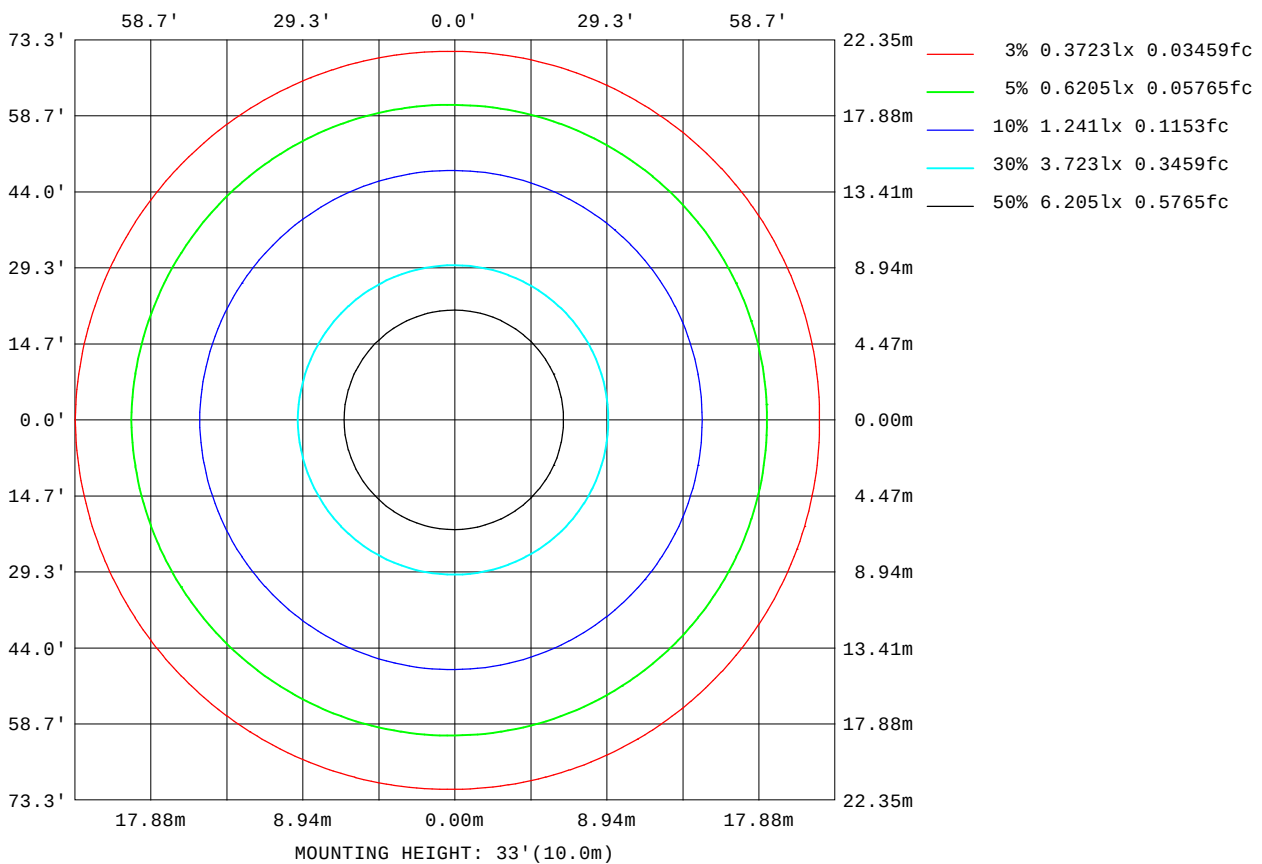
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 赢
 Test Date:2024-03-30

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:8.300m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:120.24V I:0.2402A P:28.448W PF:0.9849 Freq:59.98Hz Lamp Flux:3904.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 6500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 贏
Test Date: 2024-03-30

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:120.24V I:0.2402A P:28.448W PF:0.9849 Freq:59.98Hz Lamp Flux:3904.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 6500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

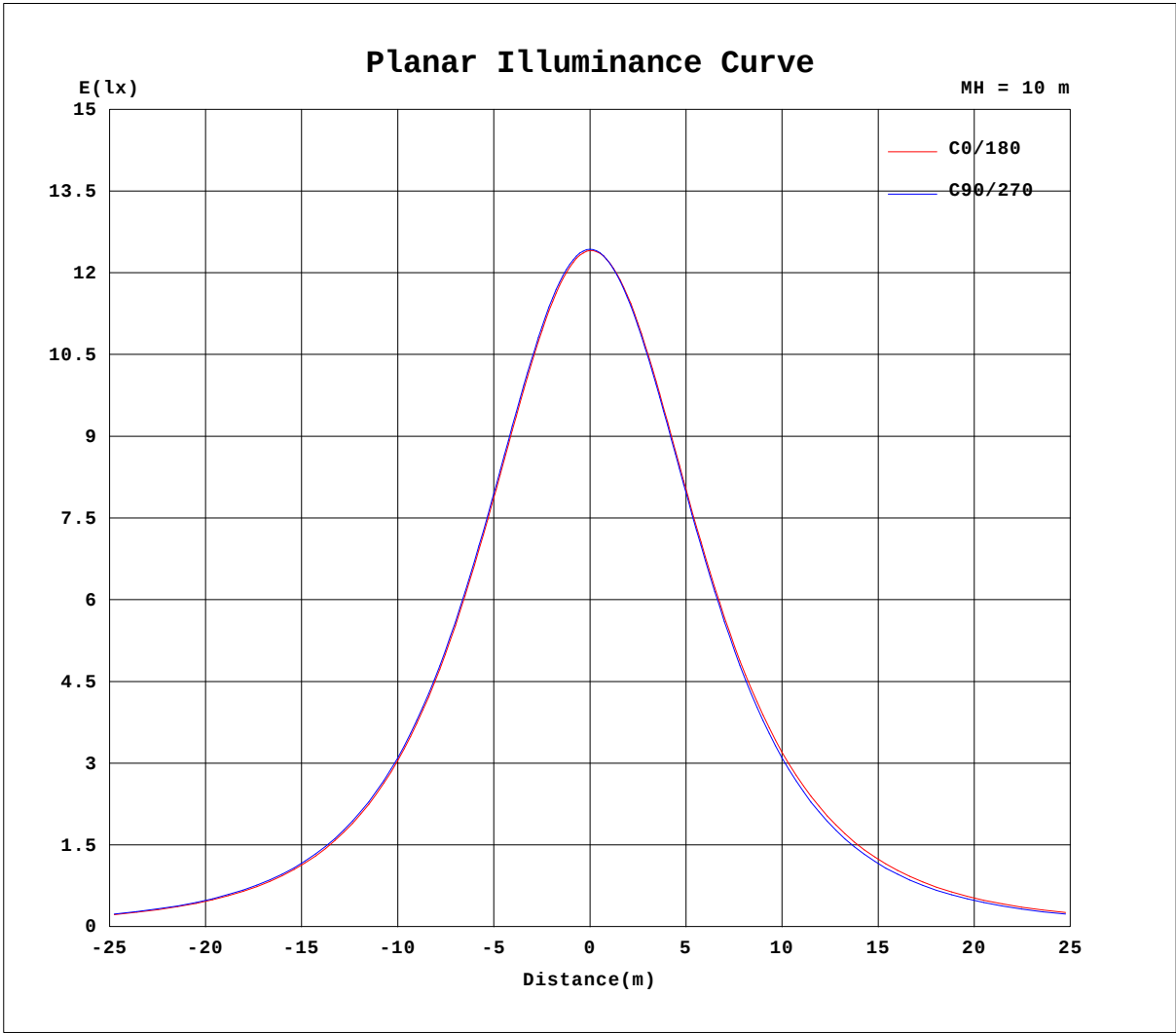
AvgL	cd/m2
L_0~180(65)av	12499
L_0~180(75)av	12396
L_0~180(85)av	13773
L_90~270(65)av	12129
L_90~270(75)av	11787
L_90~270(85)av	12504
L_45(65)av	12319
L_45(75)av	12104
L_45(85)av	13220

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

UNIT: cd

```
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:
```

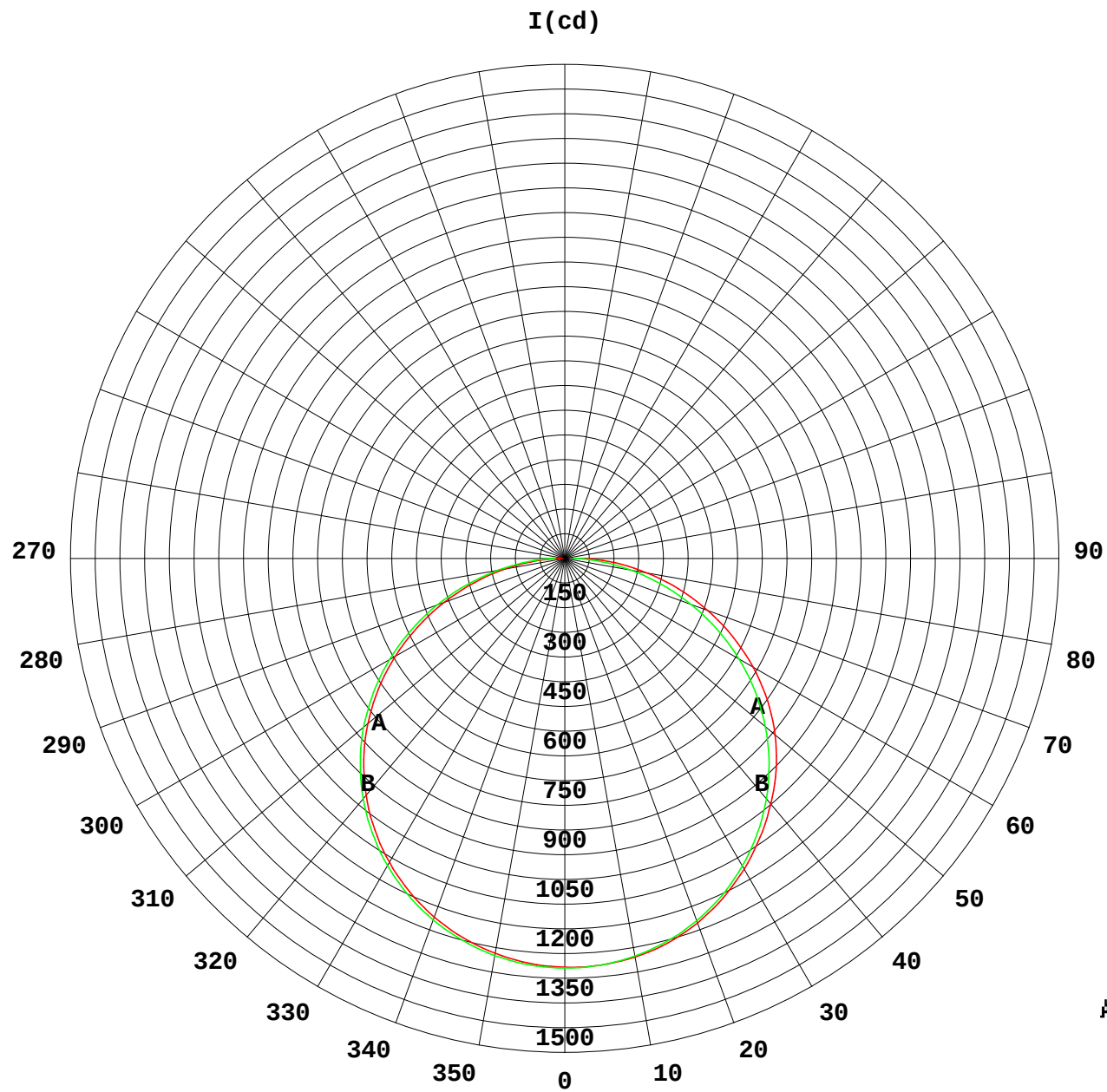
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	1241	1244	1241	1244
3.0	1238	1242	1241	1242
6.0	1231	1236	1238	1238
9.0	1222	1227	1232	1229
12.0	1208	1216	1222	1218
15.0	1192	1200	1209	1203
18.0	1173	1182	1192	1184
21.0	1151	1161	1170	1163
24.0	1126	1136	1146	1138
27.0	1097	1107	1119	1110
30.0	1065	1077	1089	1078
33.0	1031	1043	1056	1044
36.0	993.5	1006	1022	1007
39.0	953.0	965.6	985.1	965.9
42.0	910.0	924.0	947.8	923.4
45.0	863.8	878.0	907.2	877.4
48.0	814.7	830.5	863.5	828.6
51.0	763.3	780.2	818.1	778.2
54.0	709.2	727.0	768.5	724.8
57.0	652.6	671.7	715.3	668.4
60.0	594.4	614.6	659.9	610.7
63.0	534.4	554.8	602.3	550.8
66.0	472.2	494.0	542.6	490.0
69.0	410.2	432.5	482.1	428.4
72.0	347.0	369.3	420.3	365.8
75.0	284.2	306.5	357.4	303.7
78.0	222.8	244.2	294.2	242.8
81.0	162.6	184.3	232.6	183.6
84.0	104.8	127.4	173.0	126.3
87.0	51.82	75.20	115.9	74.00
90.0	6.062	28.15	60.77	26.96

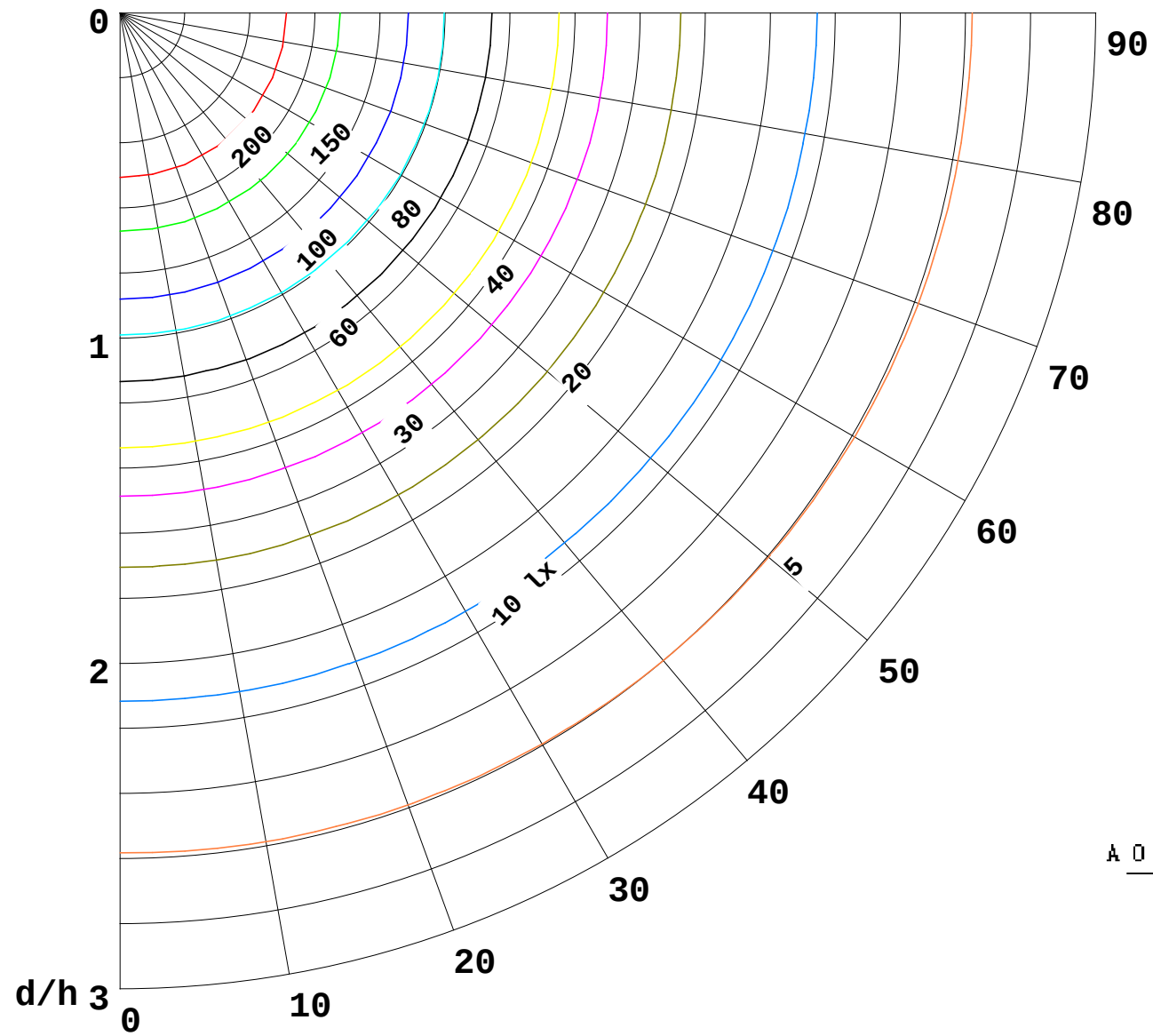
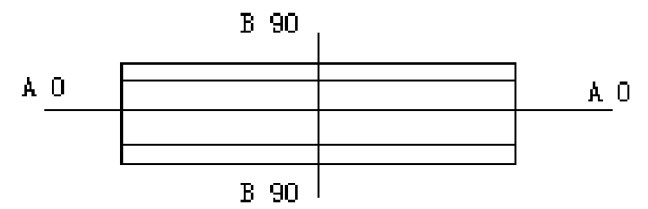
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 贏
Test Date: 2024-03-30

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 8.300m [K=1.0000]
Remarks:



1000 lm

$K = 1$



F

=

5000 lm

K

=

0.7

Hcc

=

0.0 m

Hfc

=

0.0 m

Eave

=

100 lx

Pcc

70

Pw

50

Pfc

30

Pcc

50

Pw

30

Pfc

20

