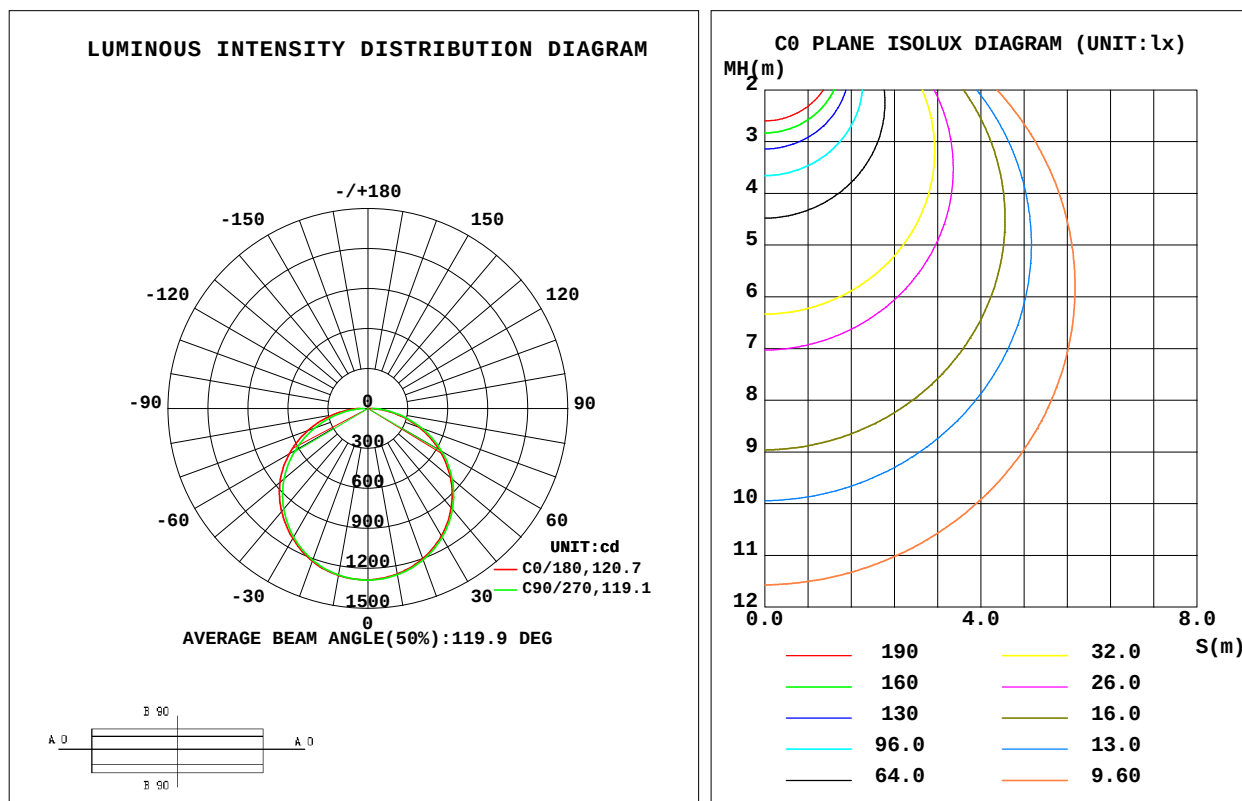


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.25V I:0.2379A P:28.167W PF:0.9848 Freq:59.98Hz Lamp Flux:4043.04x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 143.54 lm/W			
MODEL		I _{max} (cd)	1287	S/MH(C0/180)	1.31
NOMINAL POWER(W)	30w	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120-277v	TOTAL FLUX(lm)	4043.0	h UP, DN(C0-180)	0.0,49.0
NOMINAL FLUX(lm)	4043.04	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,51.0
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: 赢
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	1261	1267	1272	1269					0- 10	121.9	121.9	3.01, 3.01
20	1200	1209	1220	1211					10- 20	351.2	473.0	11.7, 11.7
30	1103	1115	1128	1115					20- 30	538.2	1011	25, 25
40	972.6	986.2	1008	984.2					30- 40	660.6	1672	41.4, 41.4
50	809.6	826.0	862.9	822.4					40- 50	704.2	2376	58.8, 58.8
60	616.7	636.9	682.2	631.7					50- 60	660.6	3037	75.1, 75.1
70	404.0	426.5	476.5	420.7					60- 70	532.6	3569	88.3, 88.3
80	190.5	211.7	260.4	209.2					70- 80	342.3	3912	96.7, 96.7
90	7.381	29.47	61.64	27.45					80- 90	131.4	4043	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		

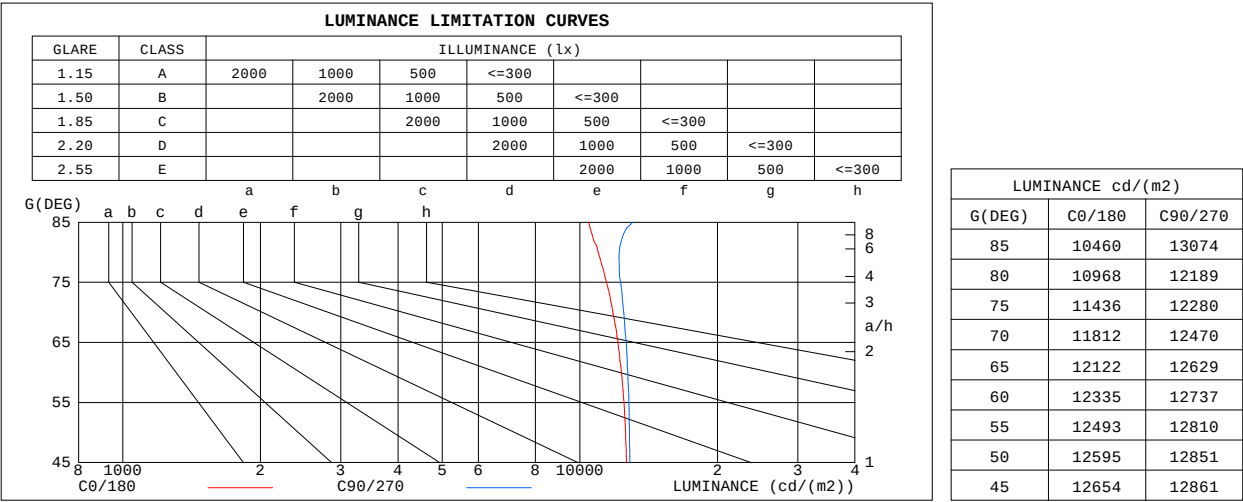
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

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:120.25V I:0.2379A P:28.167W PF:0.9848 Freq:59.98Hz Lamp Flux:4043.04x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5000k	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

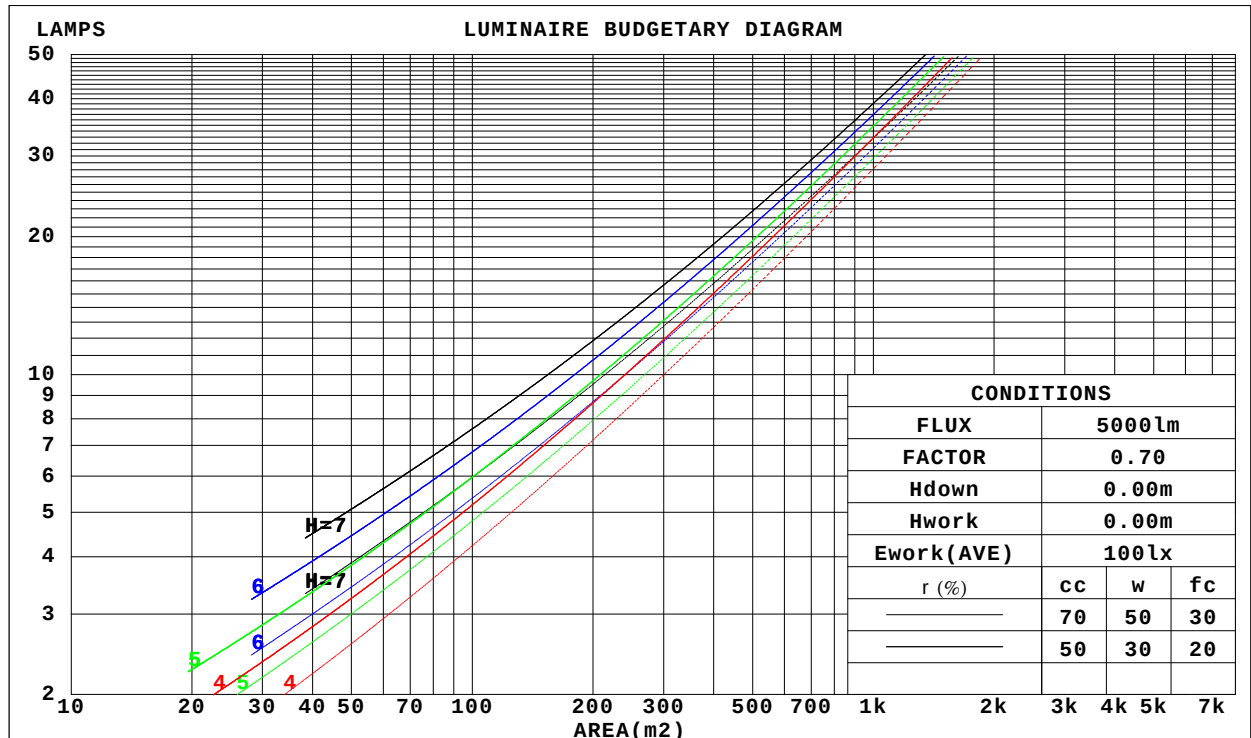
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.25V I:0.2379A P:28.167W PF:0.9848 Freq:59.98Hz Lamp Flux:4043.04x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5000k	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:120.25V I:0.2379A P:28.167W PF:0.9848 Freq:59.98Hz Lamp Flux:4043.04x1 lm					
NAME:			TYPE:		WEIGHT:
SPEC.:30w 5000k			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 Wall Exitance Coefficients(WEC)															
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
R C R	R C R:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(C C E C)															
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:120.25V I:0.2379A P:28.167W PF:0.9848 Freq:59.98Hz Lamp Flux:4043.04x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:30w 5000k					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	21.6	23.2	21.9	23.4	23.6	21.7	23.3	22.0	23.5	23.7	
	3H	23.3	24.7	23.6	25.0	25.2	23.5	24.9	23.8	25.2	25.4
	4H	24.0	25.4	24.3	25.6	25.9	24.2	25.6	24.5	25.9	26.1
	6H	24.5	25.9	24.9	26.1	26.4	24.8	26.1	25.2	26.4	26.7
	8H	24.7	26.0	25.1	26.3	26.6	25.1	26.3	25.4	26.6	26.9
	12H	24.9	26.1	25.2	26.4	26.7	25.3	26.5	25.6	26.8	27.1
4H	2H	22.3	23.7	22.6	23.9	24.2	22.4	23.8	22.7	24.0	24.3
	3H	24.2	25.4	24.5	25.7	26.0	24.3	25.5	24.7	25.8	26.1
	4H	25.0	26.1	25.4	26.4	26.8	25.2	26.3	25.6	26.6	27.0
	6H	25.7	26.7	26.1	27.0	27.4	25.9	26.9	26.3	27.3	27.7
	8H	26.0	26.9	26.4	27.3	27.6	26.3	27.2	26.7	27.6	27.9
	12H	26.1	27.0	26.6	27.4	27.8	26.5	27.4	26.9	27.8	28.2
8H	4H	25.3	26.3	25.8	26.6	27.0	25.5	26.4	25.9	26.8	27.2
	6H	26.2	27.0	26.7	27.4	27.8	26.4	27.2	26.9	27.6	28.1
	8H	26.6	27.3	27.0	27.7	28.2	26.9	27.6	27.3	28.0	28.4
	12H	26.9	27.5	27.4	27.9	28.4	27.2	27.8	27.7	28.3	28.8
12H	4H	25.4	26.2	25.8	26.6	27.0	25.5	26.4	26.0	26.8	27.2
	6H	26.3	27.0	26.8	27.4	27.9	26.5	27.2	27.0	27.6	28.1
	8H	26.7	27.3	27.2	27.8	28.3	27.0	27.6	27.5	28.1	28.5
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, 4043 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.9$)

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:120.25V I:0.2379A P:28.167W PF:0.9848 Freq:59.98Hz Lamp Flux:4043.04x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5000k	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		

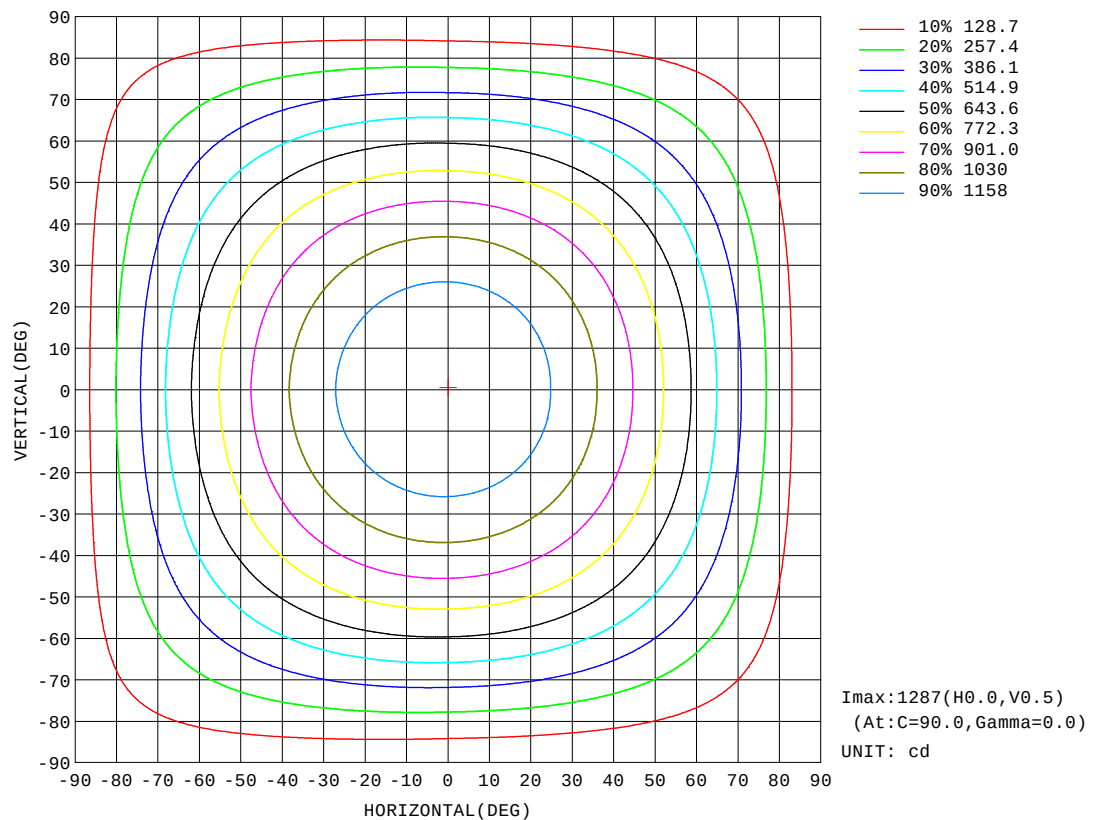
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

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:120.25V I:0.2379A P:28.167W PF:0.9848 Freq:59.98Hz Lamp Flux:4043.04x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5000k	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

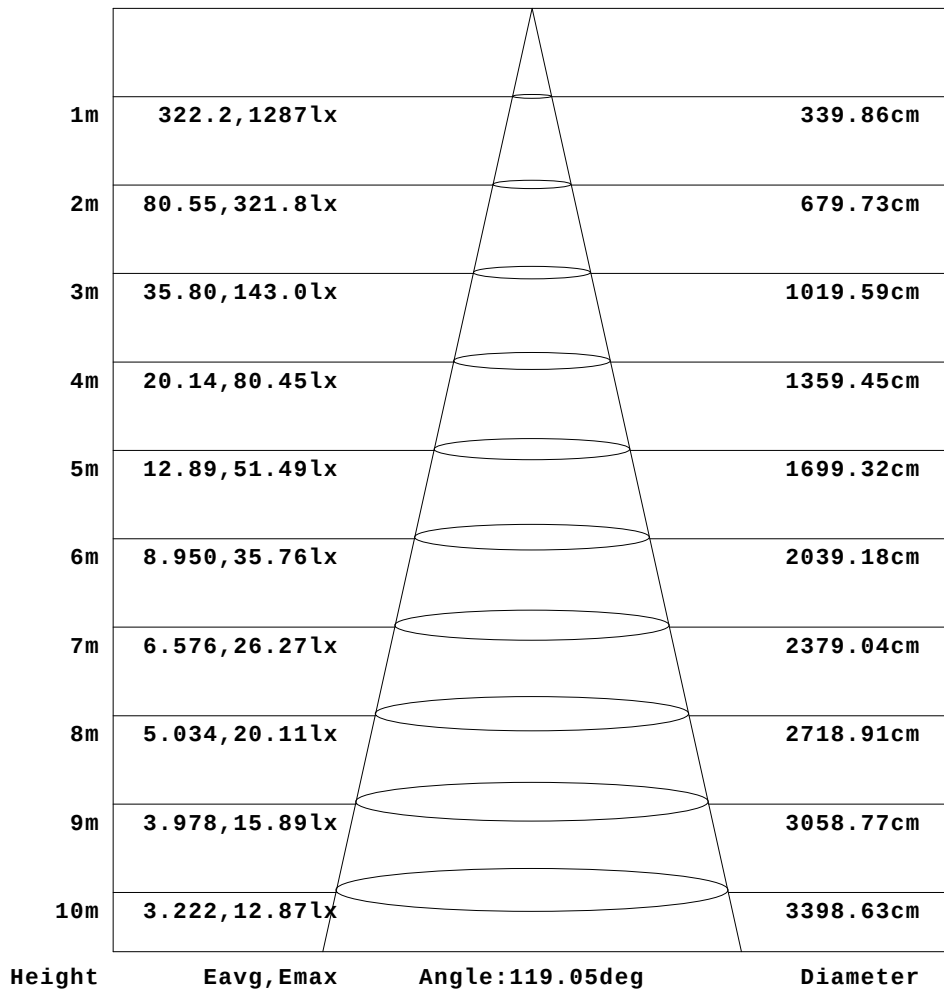
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.25V I:0.2379A P:28.167W PF:0.9848 Freq:59.98Hz Lamp Flux:4043.04x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:3037 lm



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

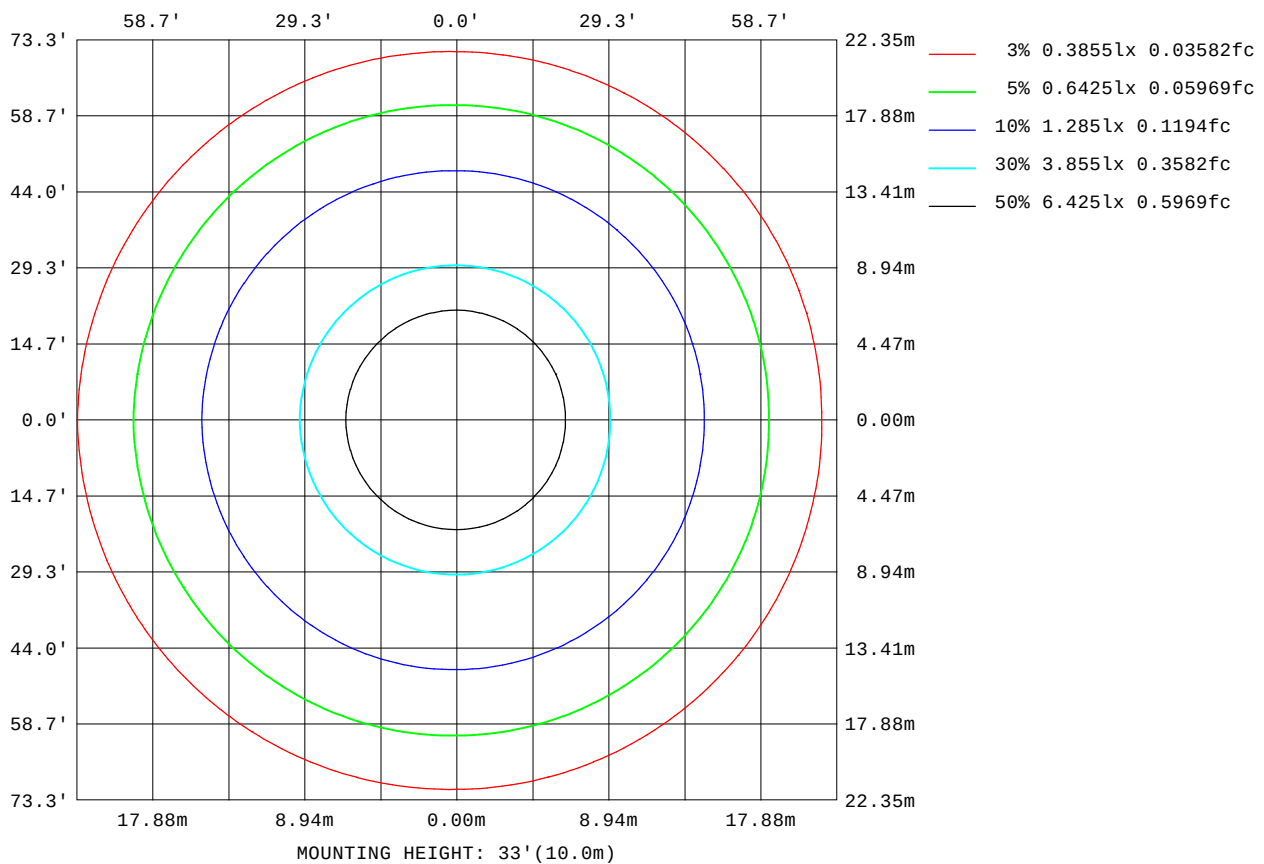
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

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

ISOLUX DIAGRAM

Test:U:120.25V I:0.2379A P:28.167W PF:0.9848 Freq:59.98Hz Lamp Flux:4043.04x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5000k	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:120.25V I:0.2379A P:28.167W PF:0.9848 Freq:59.98Hz Lamp Flux:4043.04x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

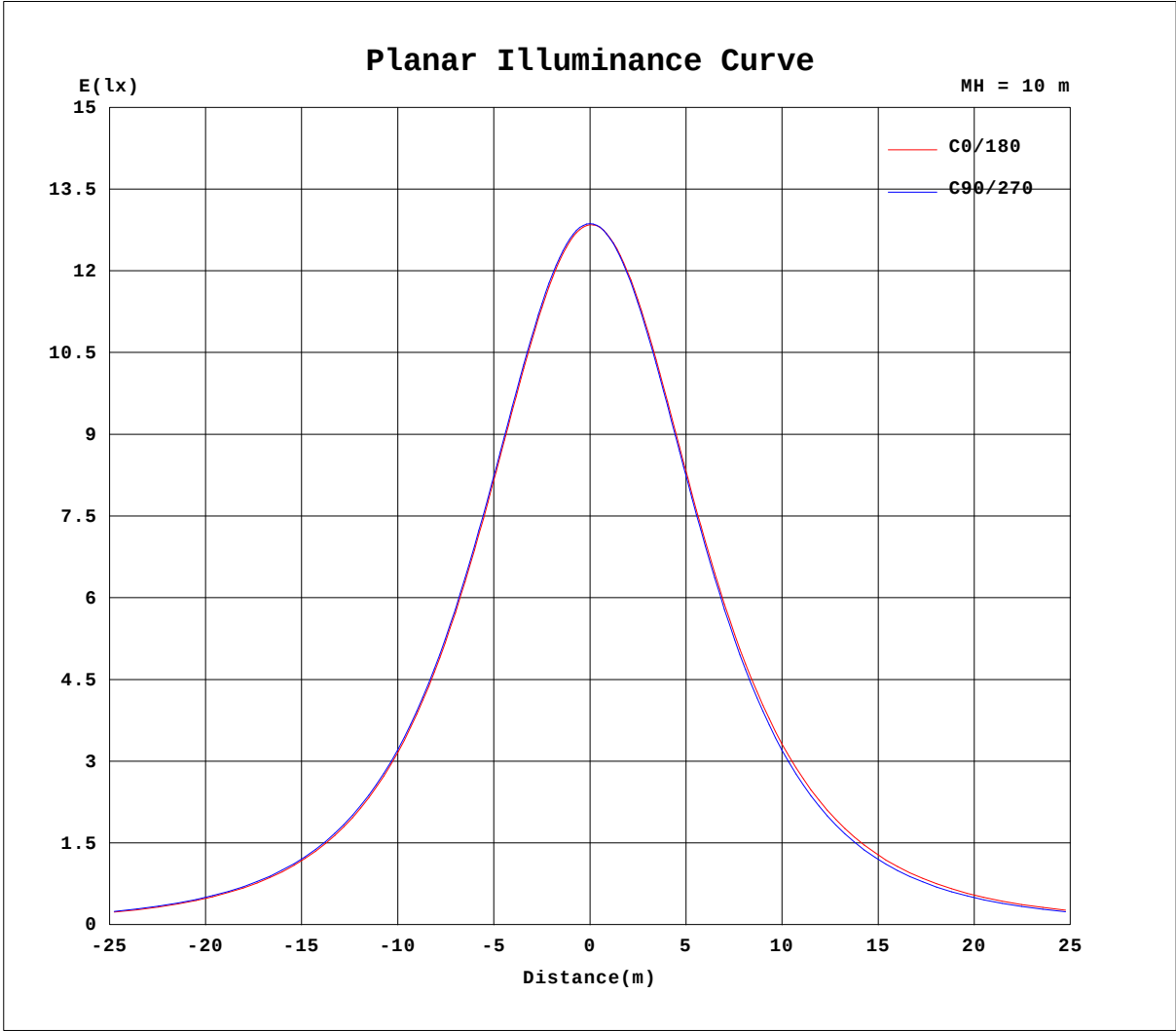
AvgL	cd/m2
L_0~180(65)av	12943
L_0~180(75)av	12841
L_0~180(85)av	14270
L_90~270(65)av	12553
L_90~270(75)av	12197
L_90~270(85)av	12938
L_45(65)av	12751
L_45(75)av	12526
L_45(85)av	13676

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:

Test:U:120.25V I:0.2379A P:28.167W PF:0.9848 Freq:59.98Hz Lamp Flux:4043.04x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

UNIT: cd

[illegible]

```
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:
```

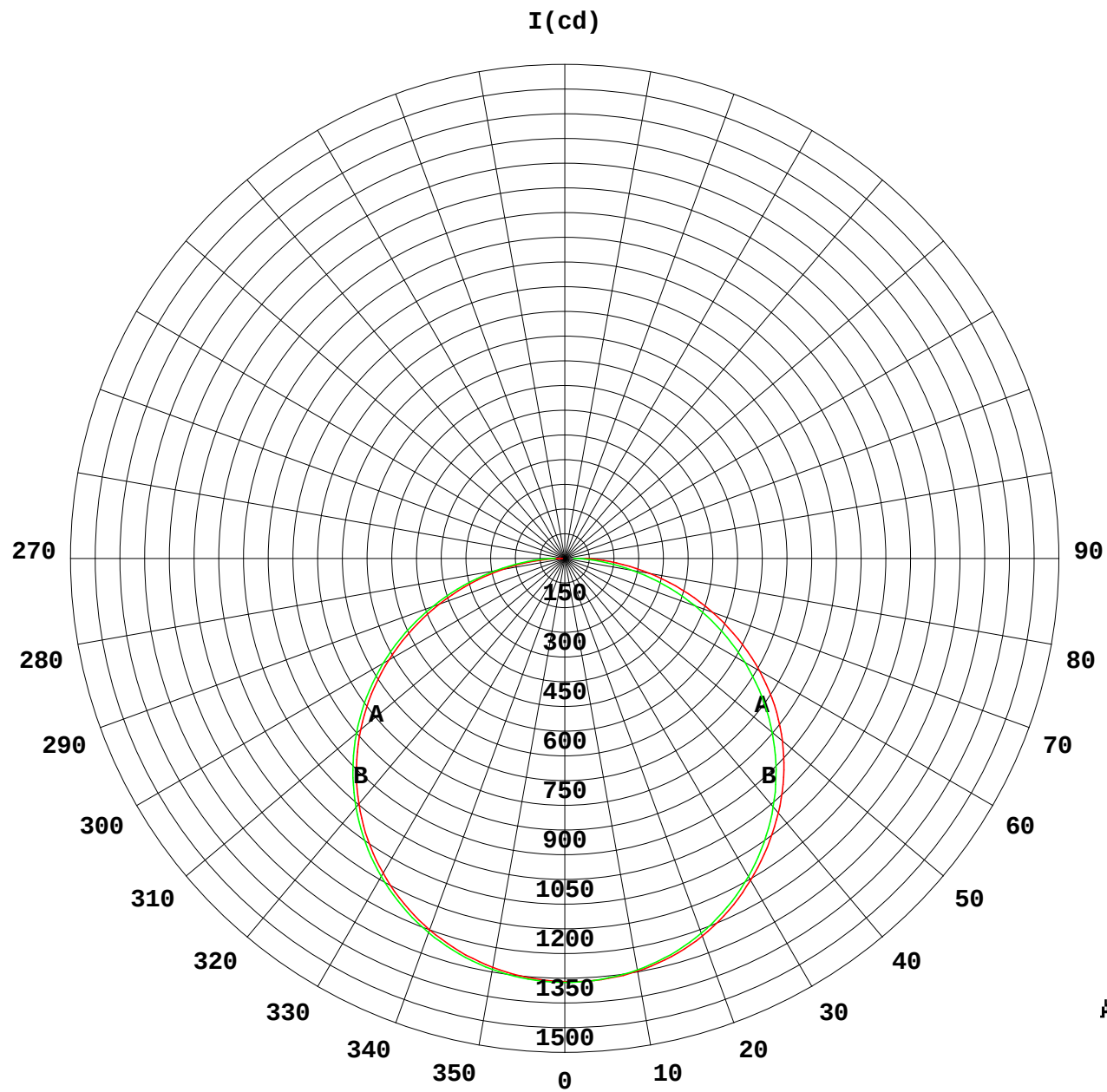
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	1285	1287	1285	1287
3.0	1281	1285	1285	1286
6.0	1275	1280	1282	1280
9.0	1265	1271	1275	1272
12.0	1251	1259	1265	1260
15.0	1235	1243	1251	1245
18.0	1215	1223	1234	1226
21.0	1192	1201	1213	1203
24.0	1166	1176	1188	1177
27.0	1136	1147	1160	1148
30.0	1103	1115	1128	1115
33.0	1068	1080	1095	1080
36.0	1029	1042	1059	1041
39.0	987.3	1001	1021	999.0
42.0	942.4	956.6	981.9	954.7
45.0	894.7	909.4	939.5	907.3
48.0	844.2	860.0	894.3	856.8
51.0	791.2	808.1	846.5	804.4
54.0	735.6	753.3	795.0	749.5
57.0	677.0	696.0	739.8	690.9
60.0	616.7	636.9	682.2	631.7
63.0	554.6	575.3	622.4	569.2
66.0	490.4	512.2	560.4	506.2
69.0	426.2	448.5	497.8	442.3
72.0	360.7	383.3	434.0	377.7
75.0	296.0	317.8	368.7	313.5
78.0	232.1	253.5	302.9	250.5
81.0	170.4	191.5	239.5	189.4
84.0	110.0	132.4	177.7	130.1
87.0	55.16	78.32	118.6	76.06
90.0	7.381	29.47	61.64	27.45

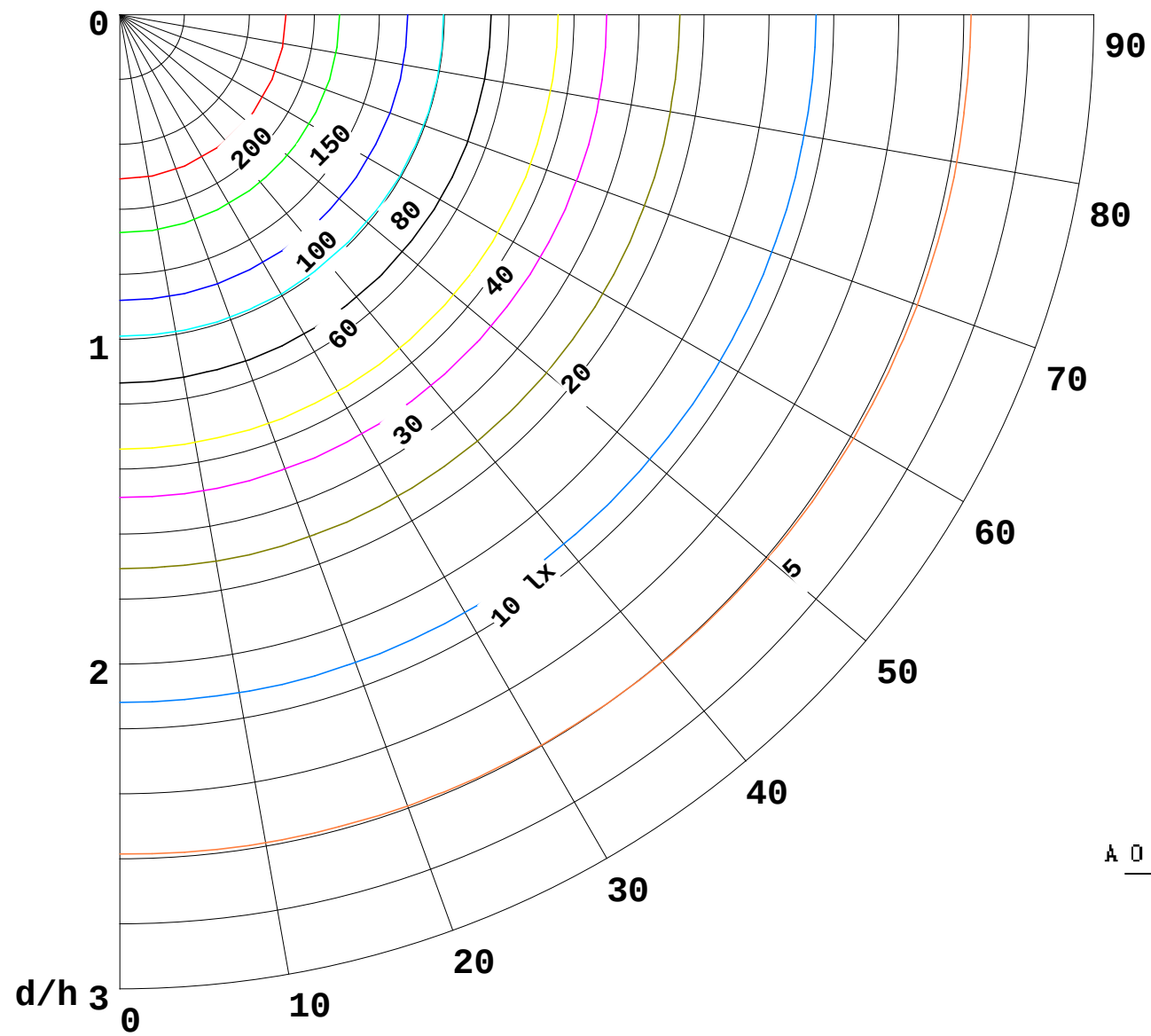
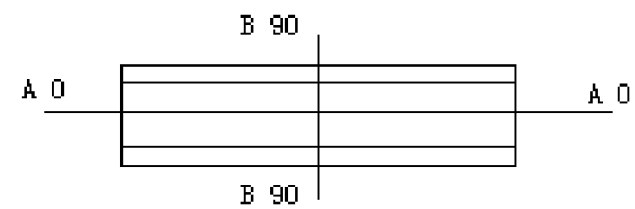
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 贏
Test Date: 2024-03-30

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:



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

50

30

20

