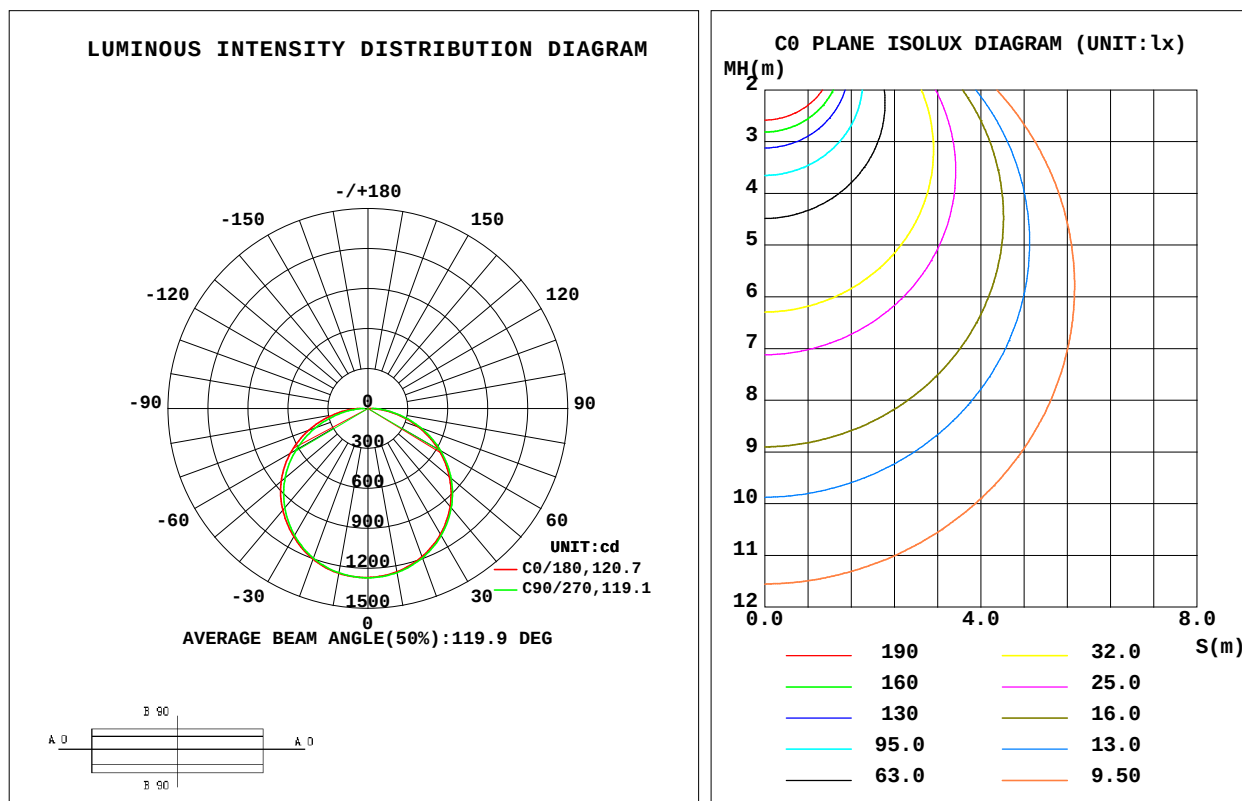


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.25V I:0.2386A P:28.256W PF:0.9848 Freq:59.98Hz Lamp Flux:3990.31x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5700k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 141.22 lm/W			
MODEL		I _{max} (cd)	1270	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)	3990.3	h UP, DN(C0-180)	0.0,49.0
NOMINAL FLUX(lm)	3990.31	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: 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	1244	1251	1256	1252					0- 10	120.3	120.3	3.01, 3.01
20	1184	1193	1204	1196					10- 20	346.6	466.9	11.7, 11.7
30	1089	1100	1113	1101					20- 30	531.2	998.1	25, 25
40	960.1	972.9	994.8	972.4					30- 40	652.0	1650	41.4, 41.4
50	798.5	814.6	851.5	812.6					40- 50	694.9	2345	58.8, 58.8
60	608.1	627.9	673.5	624.0					50- 60	652.0	2997	75.1, 75.1
70	398.1	420.4	470.7	415.9					60- 70	525.7	3523	88.3, 88.3
80	187.5	208.5	257.3	207.1					70- 80	337.9	3861	96.7, 96.7
90	6.925	28.85	61.23	27.48					80- 90	129.7	3990	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		

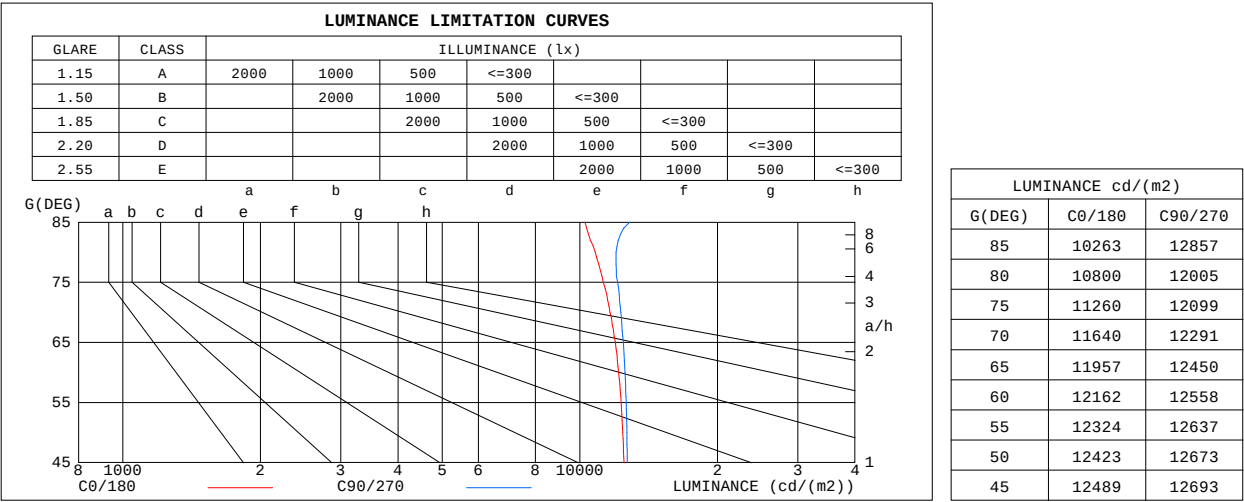
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

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:0.2386A P:28.256W PF:0.9848 Freq:59.98Hz Lamp Flux:3990.31x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5700k	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

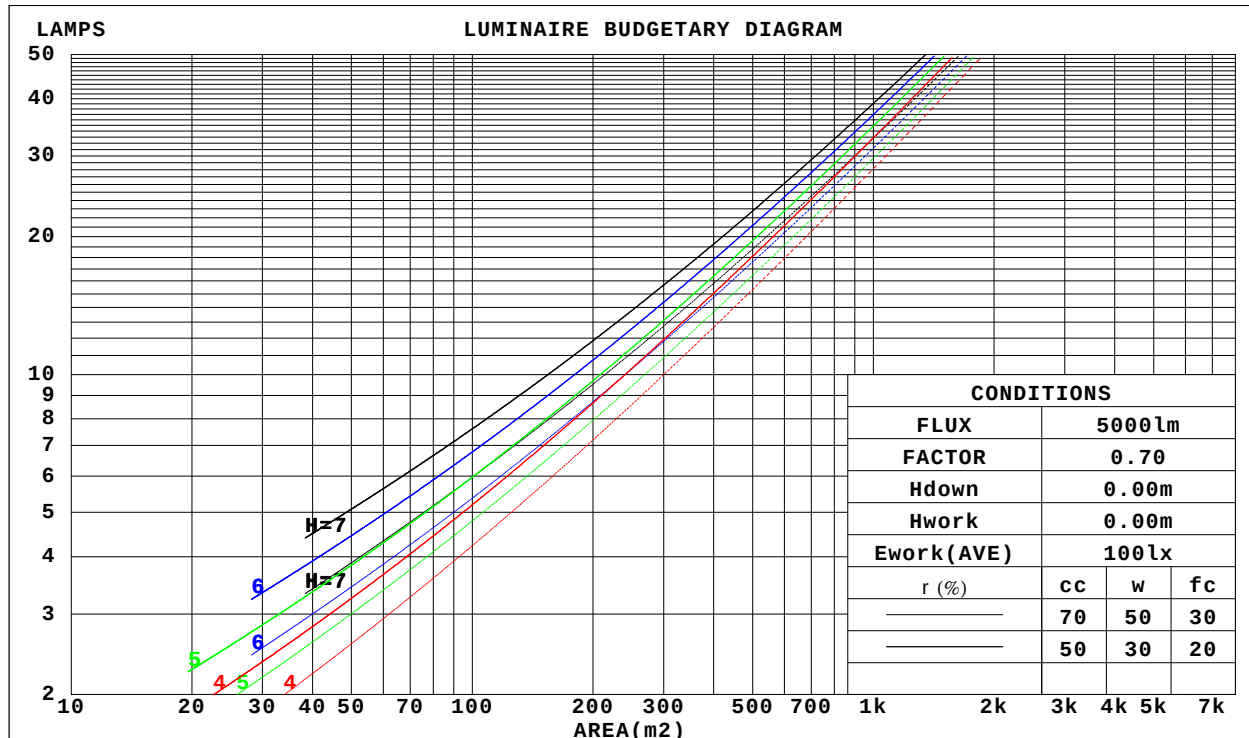
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.25V I:0.2386A P:28.256W PF:0.9848 Freq:59.98Hz Lamp Flux:3990.31x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5700k	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:0.2386A P:28.256W PF:0.9848 Freq:59.98Hz Lamp Flux:3990.31x1 lm					
NAME:			TYPE:		WEIGHT:
SPEC.:30w 5700k			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
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	.032	.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:120.25V I:0.2386A P:28.256W PF:0.9848 Freq:59.98Hz Lamp Flux:3990.31x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:30w 5700k					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	23.1	21.8	23.3	23.6	21.7	23.2	21.9	23.5	23.7	
	3H	23.2	24.7	23.5	24.9	25.2	23.4	24.9	23.7	25.1	25.3
	4H	23.9	25.3	24.3	25.6	25.8	24.2	25.5	24.5	25.8	26.1
	6H	24.5	25.8	24.8	26.1	26.4	24.8	26.1	25.1	26.4	26.6
	8H	24.7	26.0	25.0	26.2	26.5	25.0	26.3	25.4	26.6	26.9
	12H	24.8	26.0	25.2	26.3	26.6	25.2	26.4	25.6	26.7	27.0
4H	2H	22.2	23.6	22.6	23.9	24.1	22.3	23.7	22.6	24.0	24.2
	3H	24.1	25.3	24.5	25.6	25.9	24.2	25.5	24.6	25.8	26.1
	4H	24.9	26.1	25.3	26.4	26.7	25.1	26.3	25.5	26.6	26.9
	6H	25.6	26.6	26.0	27.0	27.4	25.9	26.9	26.3	27.2	27.6
	8H	25.9	26.8	26.3	27.2	27.6	26.2	27.1	26.6	27.5	27.9
	12H	26.1	27.0	26.5	27.3	27.7	26.5	27.3	26.9	27.7	28.1
8H	4H	25.3	26.2	25.7	26.6	27.0	25.4	26.4	25.9	26.8	27.1
	6H	26.2	26.9	26.6	27.3	27.8	26.4	27.2	26.8	27.6	28.0
	8H	26.5	27.2	27.0	27.6	28.1	26.8	27.5	27.3	27.9	28.4
	12H	26.8	27.4	27.3	27.9	28.4	27.2	27.8	27.7	28.2	28.7
12H	4H	25.3	26.2	25.7	26.6	27.0	25.5	26.3	25.9	26.7	27.1
	6H	26.3	26.9	26.7	27.4	27.8	26.5	27.2	26.9	27.6	28.0
	8H	26.7	27.3	27.2	27.7	28.2	26.9	27.5	27.4	28.0	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, 3990 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.8$)

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 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:0.2386A P:28.256W PF:0.9848 Freq:59.98Hz Lamp Flux:3990.31x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5700k	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		

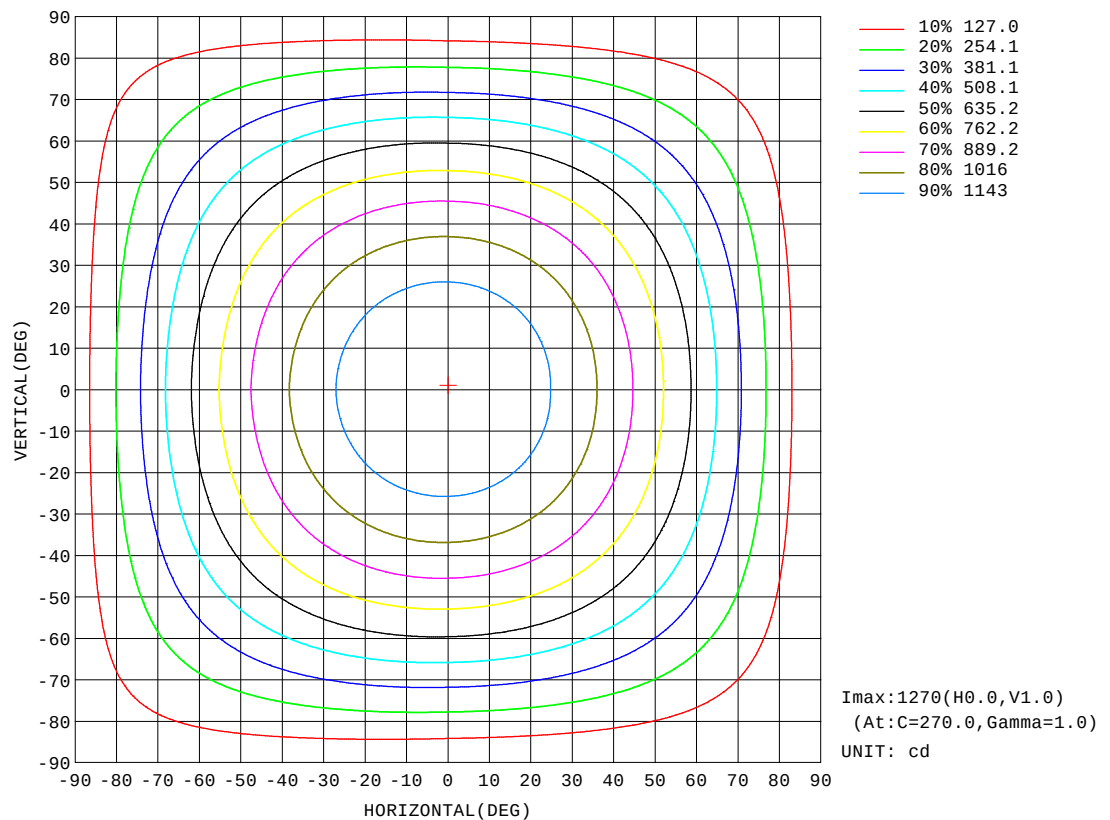
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

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:0.2386A P:28.256W PF:0.9848 Freq:59.98Hz Lamp Flux:3990.31x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5700k	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

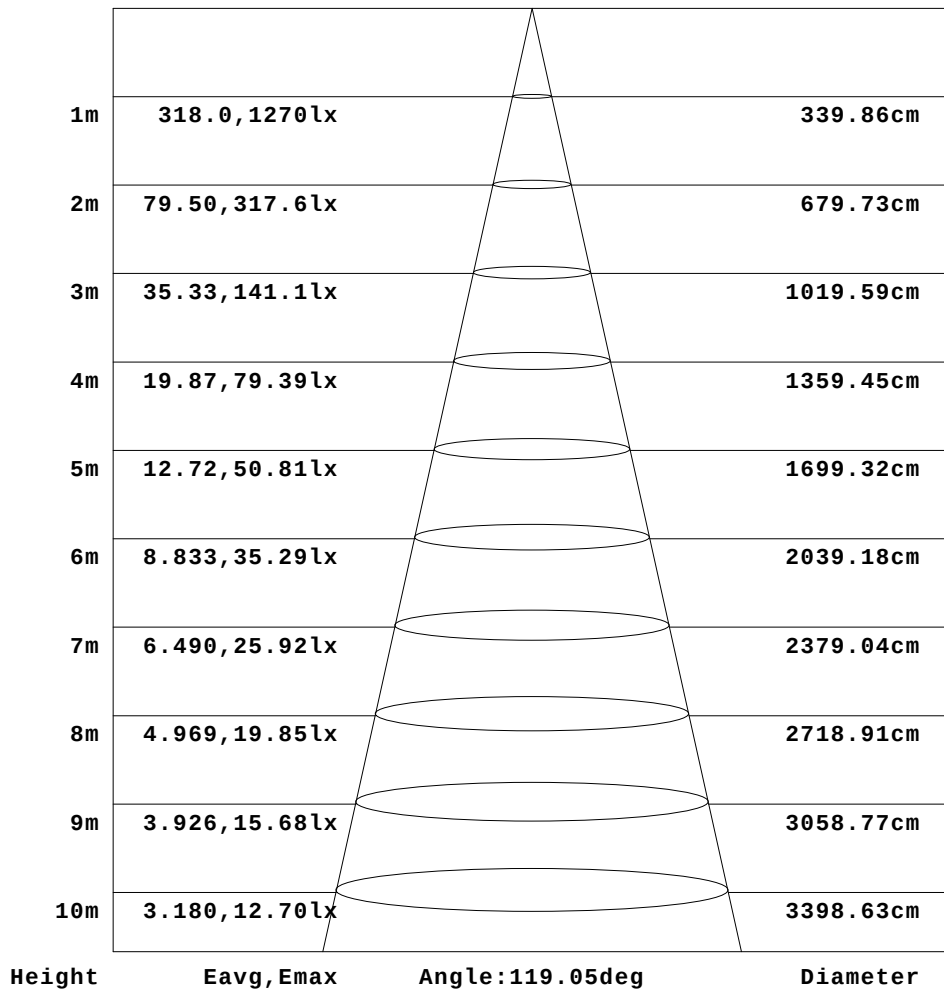
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.25V I:0.2386A P:28.256W PF:0.9848 Freq:59.98Hz Lamp Flux:3990.31x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5700k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:2997 lm



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

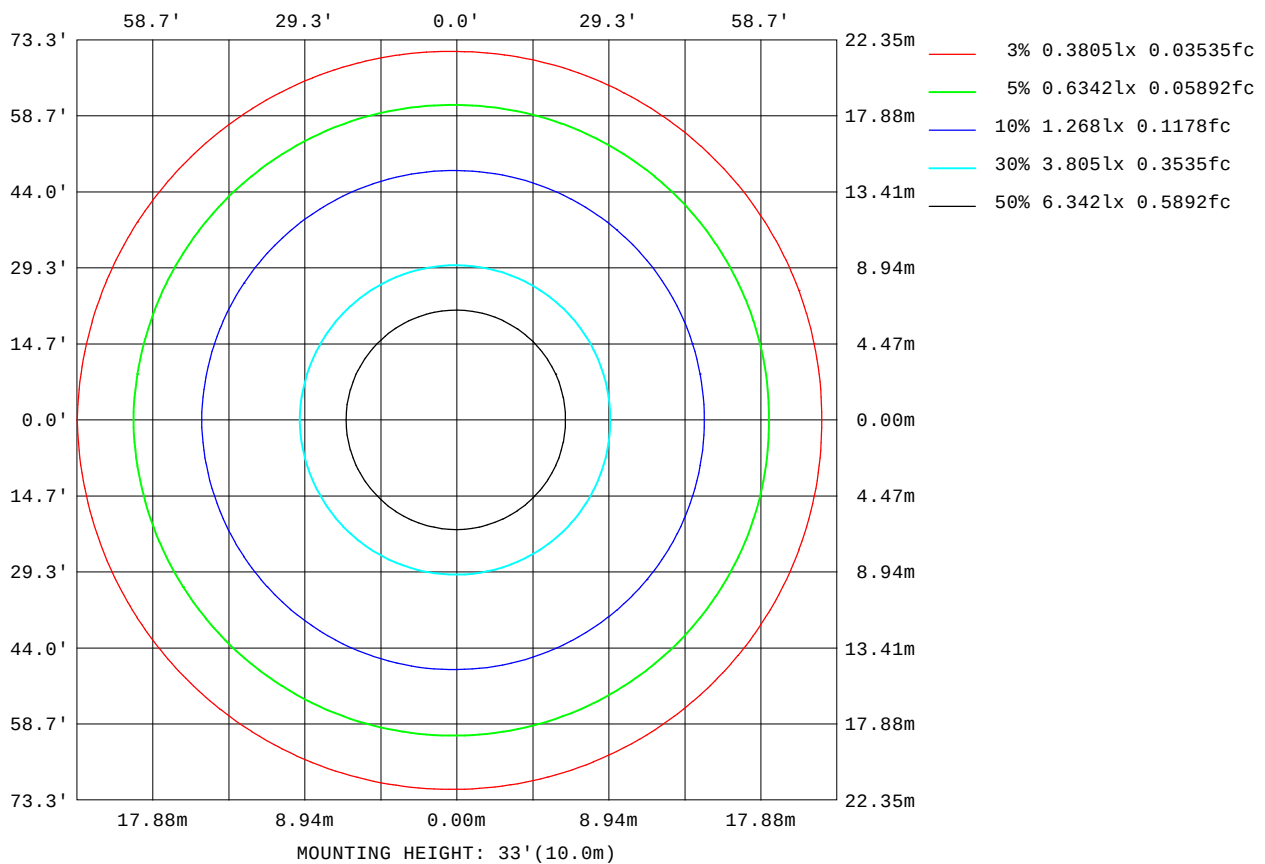
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 贏
 Test Date: 2024-03-30

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:0.2386A P:28.256W PF:0.9848 Freq:59.98Hz Lamp Flux:3990.31x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5700k	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:0.2386A P:28.256W PF:0.9848 Freq:59.98Hz Lamp Flux:3990.31x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 5700k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

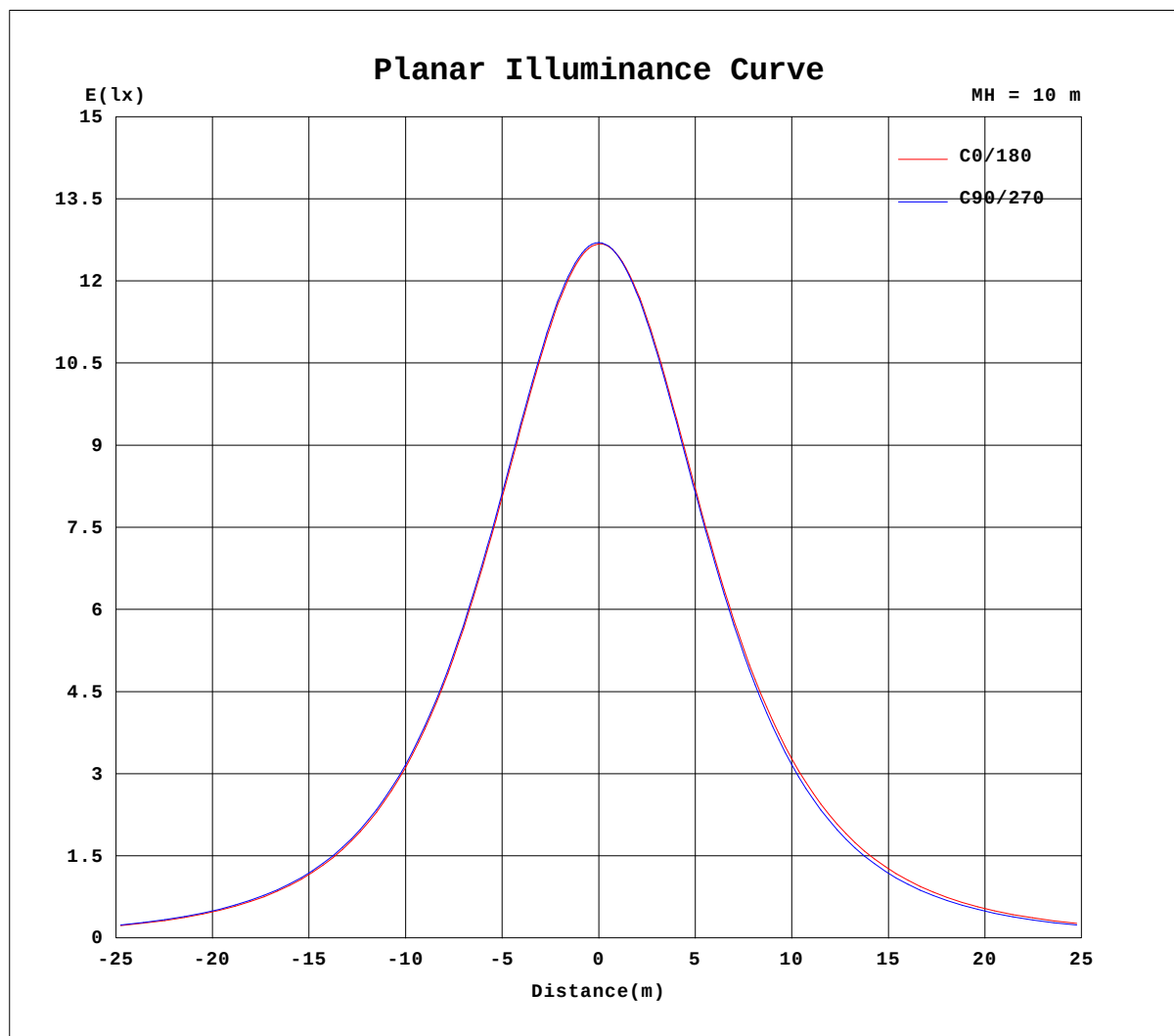
AvgL	cd/m2
L_0~180(65)av	12773
L_0~180(75)av	12667
L_0~180(85)av	14074
L_90~270(65)av	12391
L_90~270(75)av	12040
L_90~270(85)av	12771
L_45(65)av	12585
L_45(75)av	12363
L_45(85)av	13498

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 GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

```

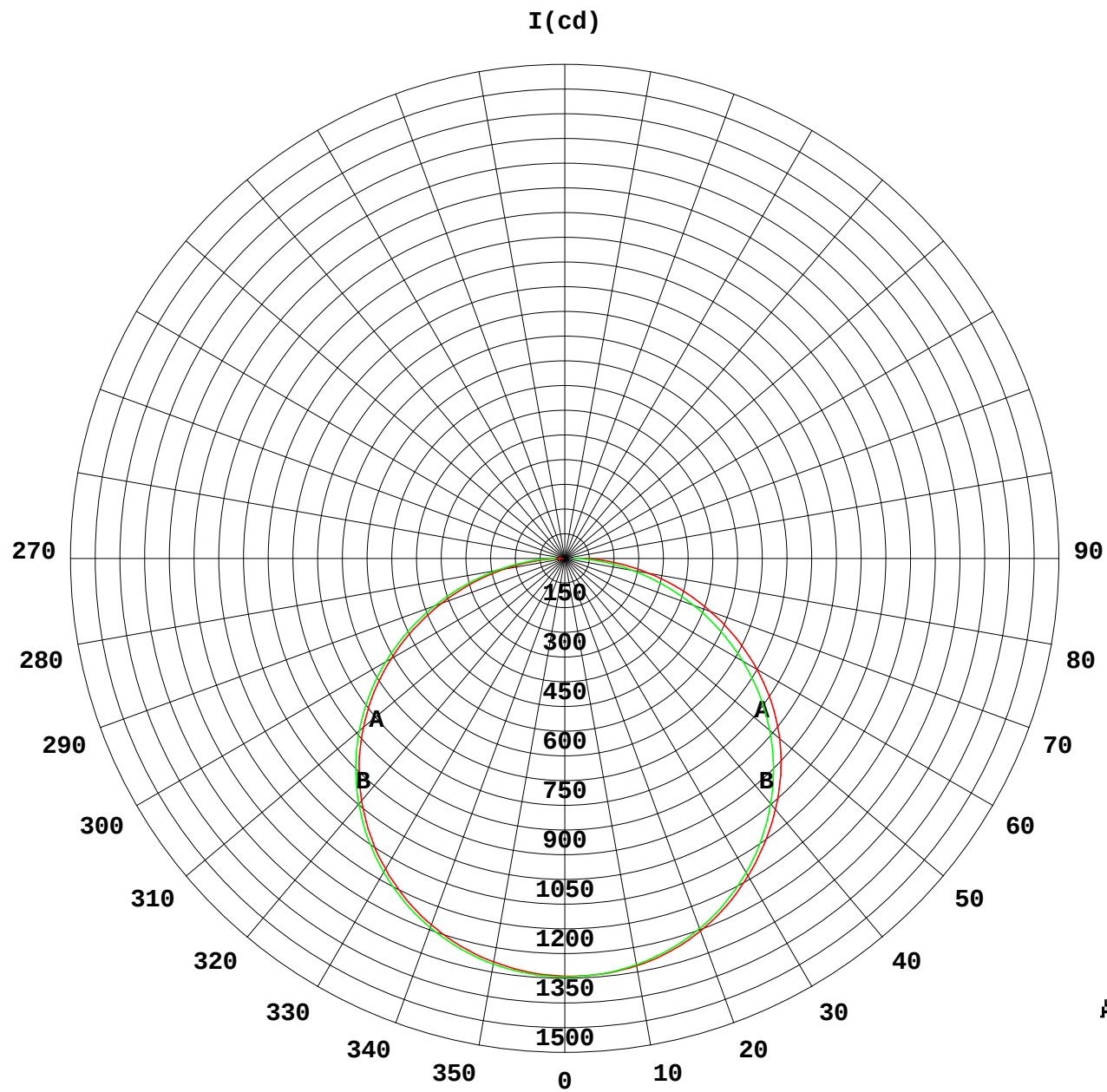
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	1268	1270	1268	1270
3.0	1265	1269	1268	1269
6.0	1258	1263	1265	1264
9.0	1248	1254	1259	1256
12.0	1236	1242	1249	1244
15.0	1219	1227	1235	1229
18.0	1199	1208	1218	1211
21.0	1177	1186	1196	1188
24.0	1151	1161	1172	1163
27.0	1121	1132	1144	1133
30.0	1089	1100	1113	1101
33.0	1054	1066	1080	1066
36.0	1016	1028	1045	1028
39.0	974.1	986.7	1007	986.6
42.0	930.3	944.1	968.5	943.1
45.0	883.1	897.5	927.2	896.3
48.0	833.1	848.4	882.5	846.3
51.0	780.6	797.3	835.8	794.5
54.0	725.4	743.1	784.7	740.1
57.0	668.0	686.5	730.4	682.4
60.0	608.1	627.9	673.5	624.0
63.0	547.3	567.1	614.6	562.7
66.0	483.3	505.0	553.6	500.2
69.0	420.3	442.0	491.7	437.2
72.0	355.5	377.6	428.4	373.7
75.0	291.4	313.2	364.3	310.1
78.0	228.8	249.7	299.6	247.9
81.0	167.5	188.7	236.8	187.4
84.0	108.1	130.4	175.8	128.9
87.0	53.90	76.94	117.5	75.52
90.0	6.925	28.85	61.23	27.48

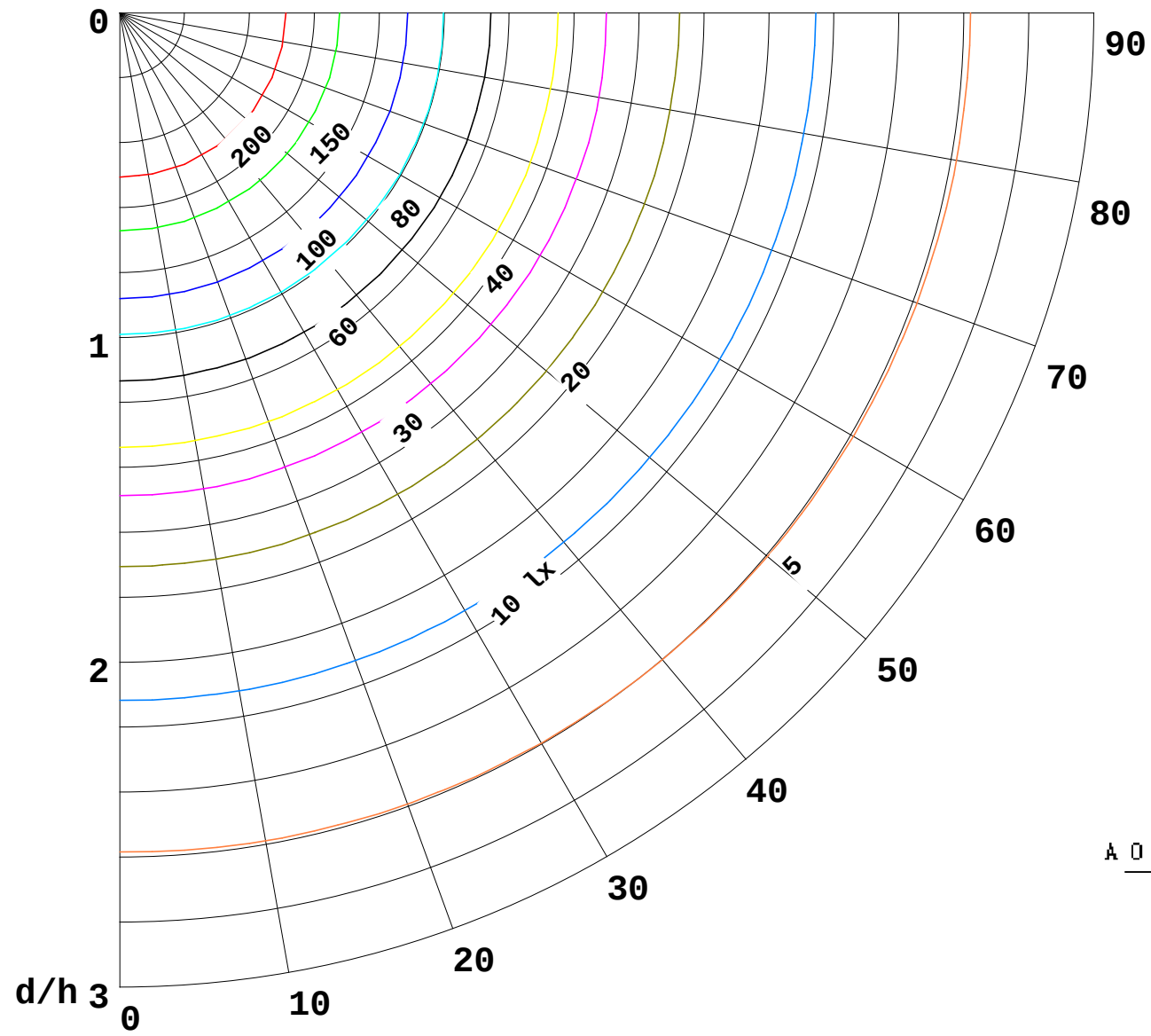
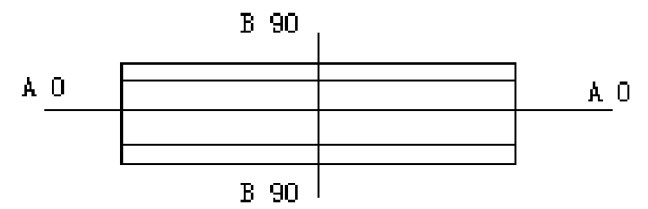
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 贏
Test Date: 2024-03-30

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

<hr/>	Pcc	Pw	Pfc
<hr/>	70	50	30
	50	30	20

