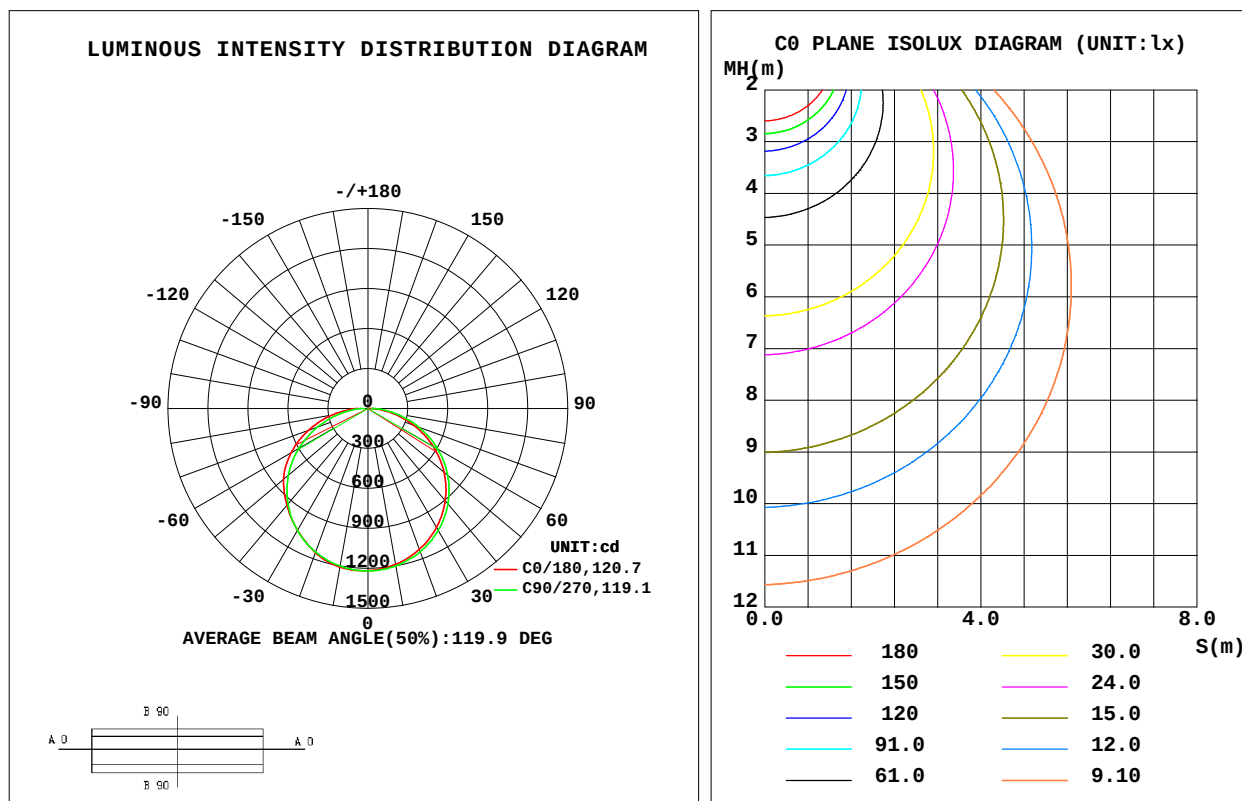


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.24V I:0.2407A P:28.505W PF:0.9849 Freq:59.98Hz Lamp Flux:3818.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 3500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.98 lm/W			
MODEL		I _{max} (cd)	1219	S/MH(C0/180)	1.29
NOMINAL POWER(W)	30w	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120-277v	TOTAL FLUX(lm)	3819.0	h UP, DN(C0-180)	0.0,48.4
NOMINAL FLUX(lm)	3818.96	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,51.6
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	1188	1200	1209	1201					0- 10	115.4	115.4	3.02, 3.02
20	1126	1145	1151	1148					10- 20	332.0	447.4	11.7, 11.7
30	1030	1055	1057	1058					20- 30	507.2	954.6	25, 25
40	902.3	933.5	947.7	934.8					30- 40	621.8	1576	41.3, 41.3
50	746.2	781.8	827.4	780.8					40- 50	663.6	2240	58.7, 58.7
60	562.8	602.8	668.0	599.3					50- 60	625.0	2865	75, 75
70	362.4	402.9	473.1	399.0					60- 70	504.7	3370	88.2, 88.2
80	163.5	199.4	265.4	198.2					70- 80	324.4	3694	96.7, 96.7
90	0.6072	27.20	71.87	26.04					80- 90	124.9	3819	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		

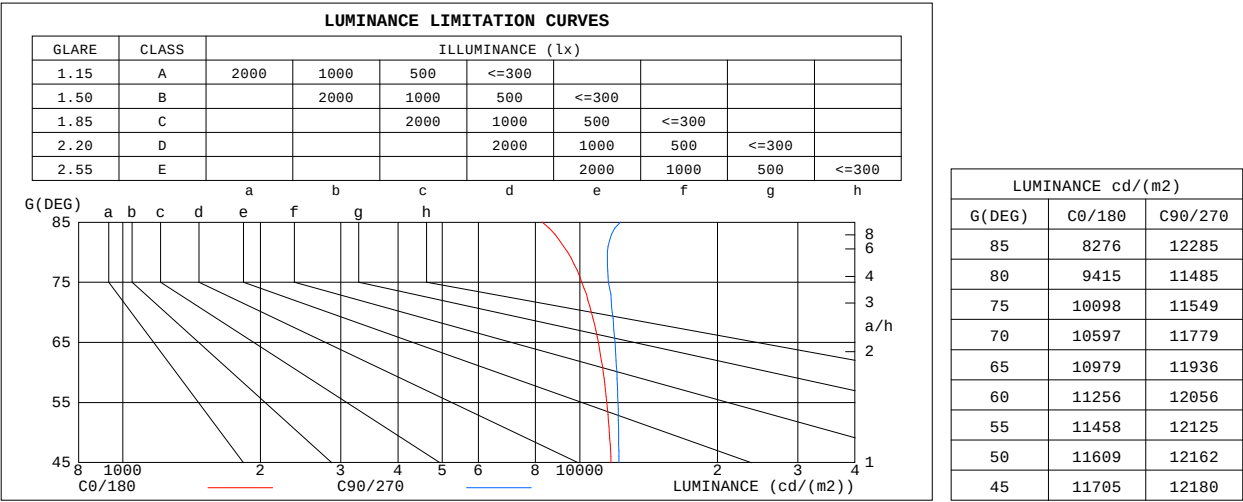
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

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:0.2407A P:28.505W PF:0.9849 Freq:59.98Hz Lamp Flux:3818.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 3500k	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

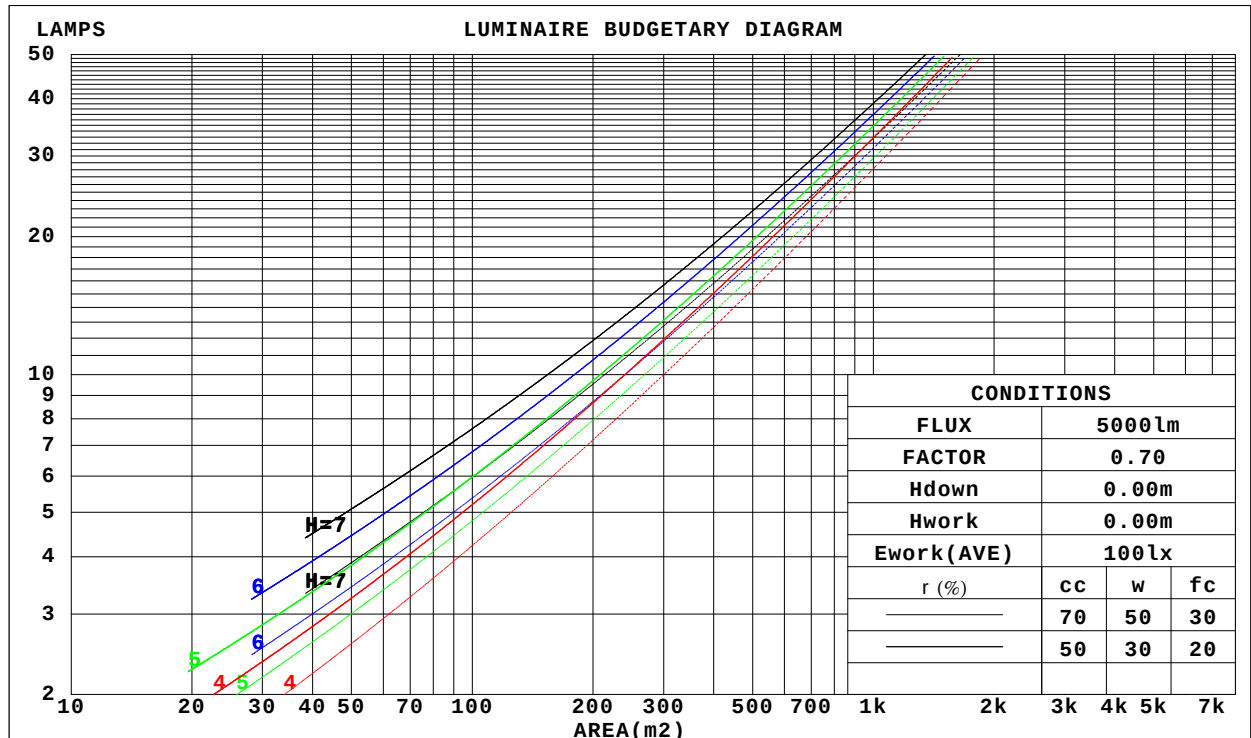
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.24V I:0.2407A P:28.505W PF:0.9849 Freq:59.98Hz Lamp Flux:3818.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 3500k	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	.77	.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	.55	.50	.60	.54	.50	.47
5.0	.61	.51	.45	.60	.51	.44	.57	.50	.44	.55	.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	.40	.34	.30	.28
9.0	.41	.33	.27	.41	.33	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.36	.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:0.2407A P:28.505W PF:0.9849 Freq:59.98Hz Lamp Flux:3818.96x1 lm					
NAME:			TYPE:		WEIGHT:
SPEC.:30w 3500k			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	.191	.060	.328	.187	.059	.315	.180	.058	.302	.174	.056	.291	.169	.054	
2.0	.309	.169	.052	.302	.167	.051	.291	.162	.050	.280	.157	.049	.270	.152	.048	
3.0	.282	.150	.045	.277	.148	.045	.266	.144	.044	.257	.141	.043	.248	.137	.042	
4.0	.259	.134	.040	.254	.133	.039	.244	.130	.039	.236	.127	.038	.228	.124	.038	
5.0	.238	.121	.035	.233	.120	.035	.225	.117	.035	.217	.115	.034	.210	.112	.034	
6.0	.220	.110	.032	.216	.109	.031	.208	.107	.031	.202	.105	.031	.195	.103	.030	
7.0	.204	.101	.029	.200	.100	.028	.194	.098	.028	.188	.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	.167	.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	.175	.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	.072	.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:0.2407A P:28.505W PF:0.9849 Freq:59.98Hz Lamp Flux:3818.96x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:30w 3500k					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	21.3	22.8	21.5	23.0	23.2	21.5	23.1	21.8	23.3	23.5	
	3H	22.9	24.3	23.2	24.6	24.8	23.2	24.7	23.5	24.9	25.2
	4H	23.5	24.9	23.9	25.2	25.4	24.0	25.4	24.3	25.6	25.9
	6H	24.0	25.4	24.4	25.6	25.9	24.6	25.9	24.9	26.2	26.5
	8H	24.2	25.5	24.6	25.8	26.1	24.8	26.1	25.2	26.4	26.7
	12H	24.3	25.5	24.7	25.8	26.1	25.0	26.2	25.4	26.5	26.8
4H	2H	21.9	23.3	22.3	23.6	23.8	22.1	23.5	22.4	23.8	24.0
	3H	23.7	25.0	24.1	25.3	25.6	24.0	25.3	24.4	25.6	25.9
	4H	24.5	25.7	24.9	26.0	26.3	24.9	26.0	25.3	26.4	26.7
	6H	25.2	26.2	25.6	26.5	26.9	25.7	26.7	26.1	27.0	27.4
	8H	25.4	26.4	25.8	26.7	27.1	26.0	26.9	26.4	27.3	27.7
	12H	25.6	26.4	26.0	26.8	27.2	26.2	27.1	26.7	27.5	27.9
8H	4H	24.9	25.8	25.3	26.2	26.6	25.2	26.2	25.6	26.5	26.9
	6H	25.7	26.5	26.2	26.9	27.3	26.2	26.9	26.6	27.3	27.8
	8H	26.0	26.7	26.5	27.2	27.6	26.6	27.3	27.0	27.7	28.1
	12H	26.3	26.9	26.8	27.3	27.8	26.9	27.5	27.4	28.0	28.5
12H	4H	24.9	25.8	25.4	26.2	26.6	25.2	26.1	25.7	26.5	26.9
	6H	25.8	26.5	26.3	26.9	27.4	26.2	26.9	26.7	27.4	27.8
	8H	26.2	26.8	26.7	27.2	27.7	26.7	27.3	27.2	27.7	28.2
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, 3819 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:0.2407A P:28.505W PF:0.9849 Freq:59.98Hz Lamp Flux:3818.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 3500k	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	36	54	43	36	30
0.80	66	54	46	65	53	46	63	52	45	38
1.00	74	62	55	73	62	54	70	63	54	47
1.25	81	70	63	80	69	62	77	68	61	54
1.50	86	76	68	84	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	93	88	99	92	86	94	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		

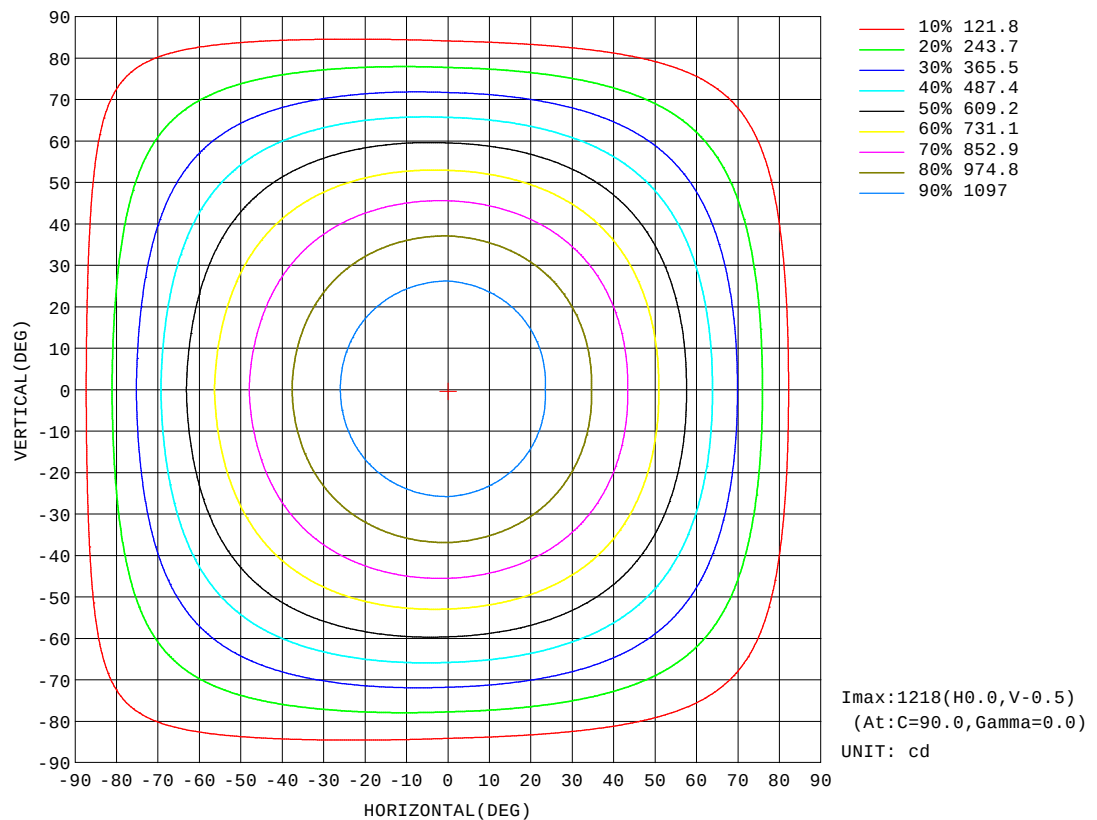
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

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:0.2407A P:28.505W PF:0.9849 Freq:59.98Hz Lamp Flux:3818.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 3500k	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

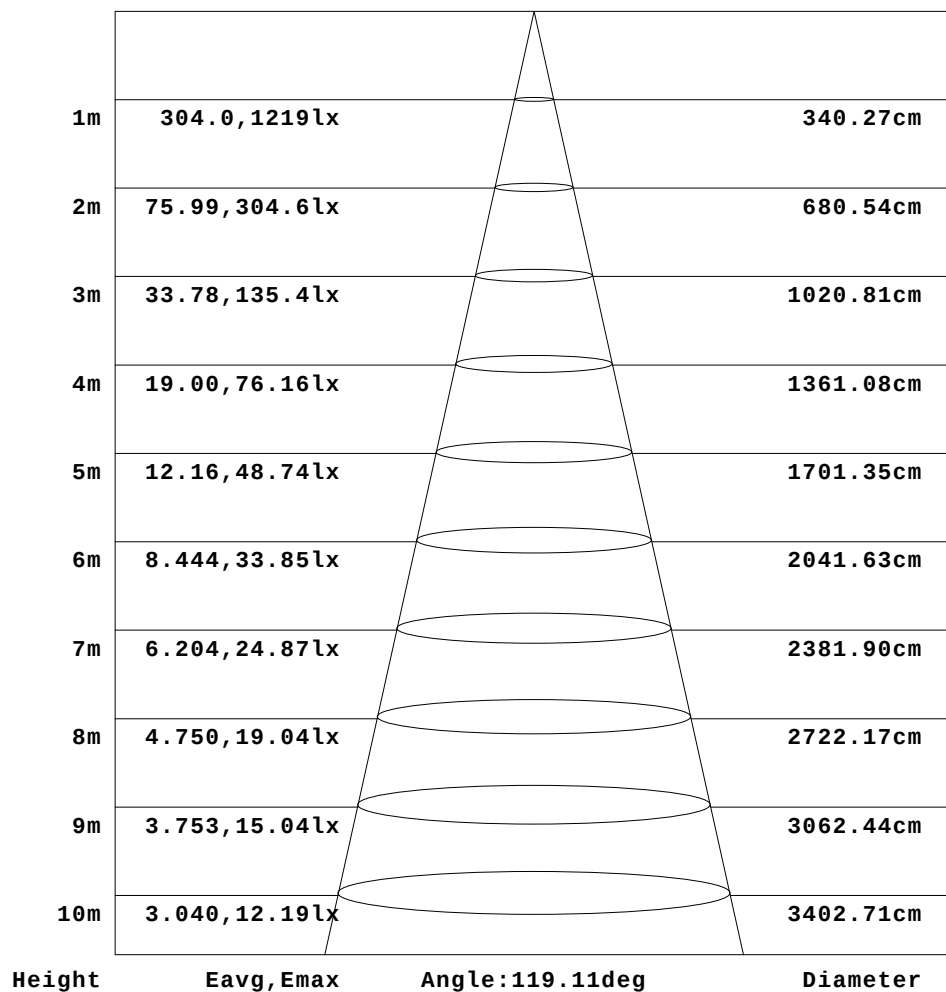
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.24V I:0.2407A P:28.505W PF:0.9849 Freq:59.98Hz Lamp Flux:3818.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 3500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:2865 lm



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

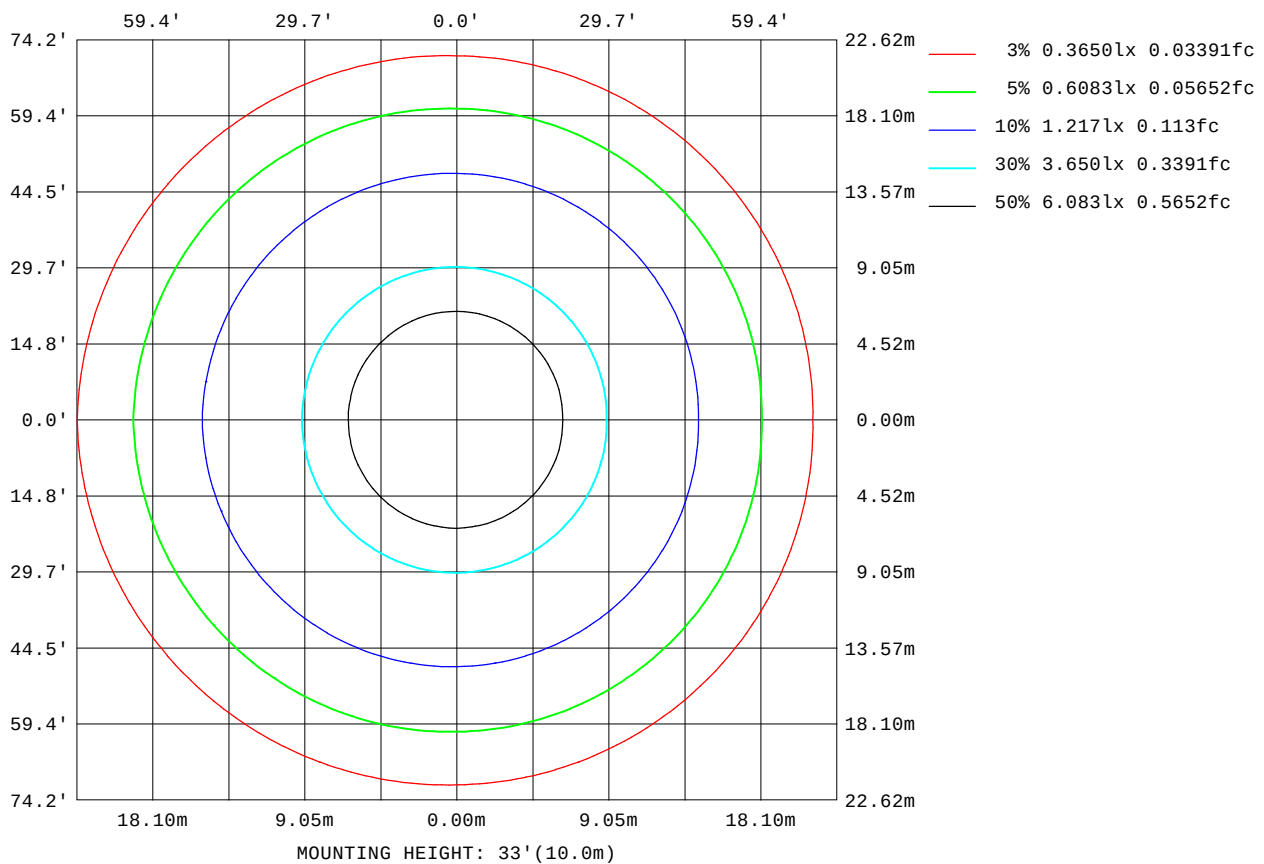
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

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:0.2407A P:28.505W PF:0.9849 Freq:59.98Hz Lamp Flux:3818.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 3500k	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:0.2407A P:28.505W PF:0.9849 Freq:59.98Hz Lamp Flux:3818.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 3500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

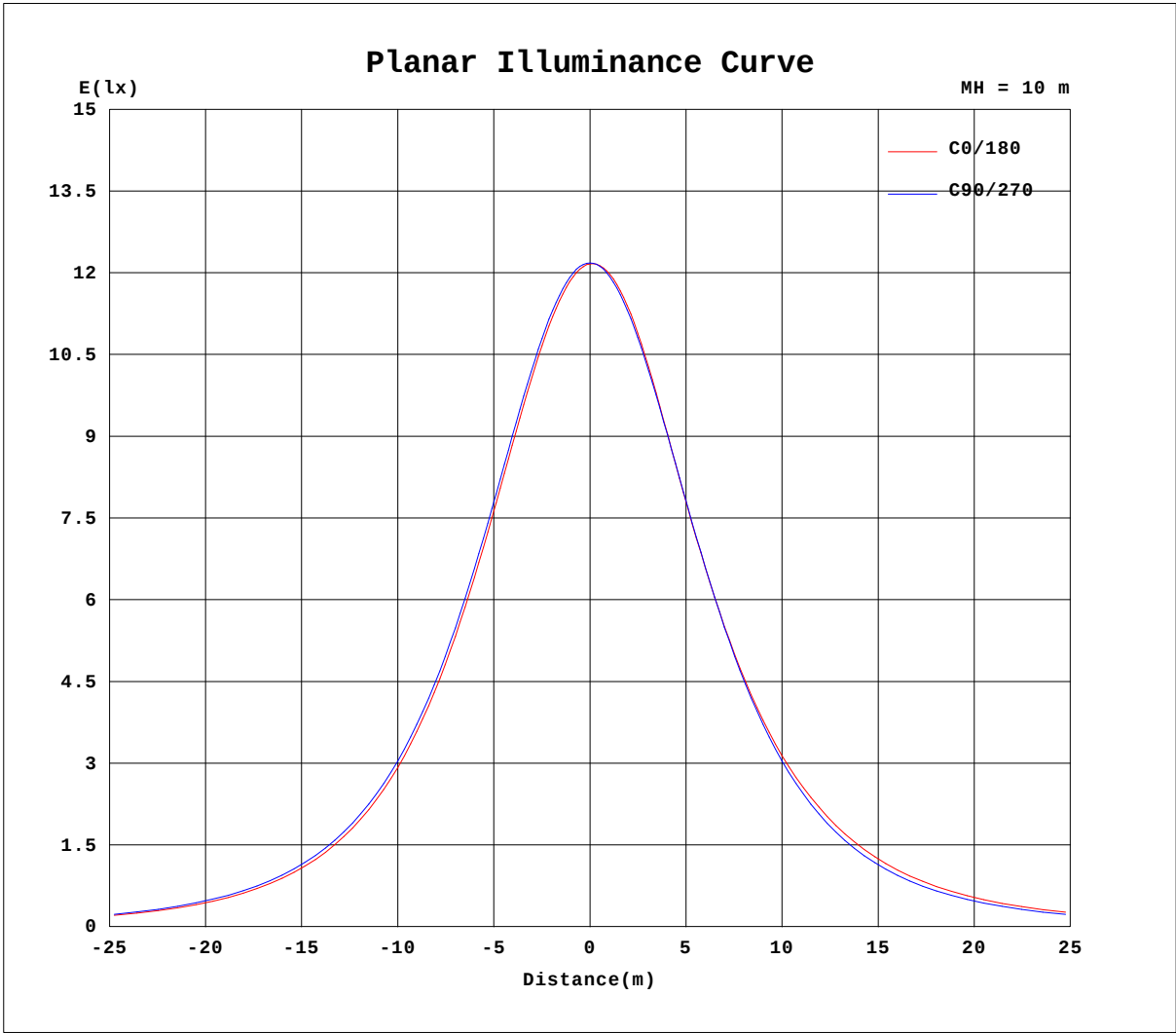
AvgL	cd/m2
L_0~180(65)av	12273
L_0~180(75)av	12194
L_0~180(85)av	13647
L_90~270(65)av	11885
L_90~270(75)av	11512
L_90~270(85)av	12195
L_45(65)av	12111
L_45(75)av	11899
L_45(85)av	13075

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:120.24V I:0.2407A P:28.505W PF:0.9849 Freq:59.98Hz Lamp Flux:3818.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 3500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

UNIT: cd

[illegible]

```
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:
```

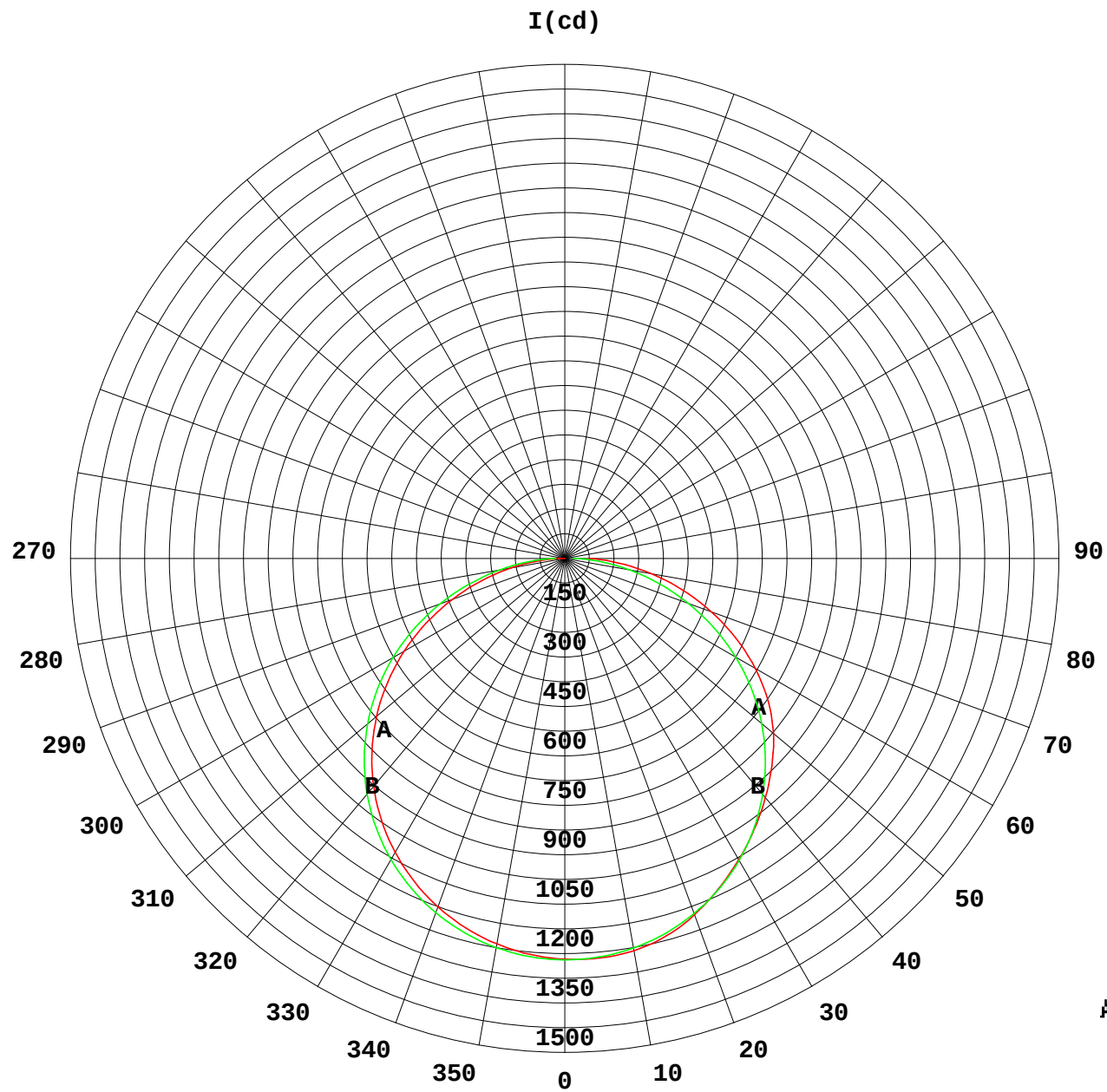
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	1217	1219	1217	1219
3.0	1212	1217	1218	1217
6.0	1204	1212	1217	1213
9.0	1193	1203	1212	1205
12.0	1179	1192	1202	1193
15.0	1161	1177	1187	1179
18.0	1141	1159	1168	1161
21.0	1118	1137	1143	1140
24.0	1092	1113	1115	1116
27.0	1062	1086	1087	1089
30.0	1030	1055	1057	1058
33.0	995.1	1023	1025	1025
36.0	957.5	986.5	992.7	988.5
39.0	916.7	947.1	959.0	948.6
42.0	873.8	906.0	924.7	906.5
45.0	827.7	861.2	889.4	861.3
48.0	779.7	814.1	852.8	813.7
51.0	728.9	765.0	813.2	763.4
54.0	675.4	713.1	769.0	711.2
57.0	619.9	658.8	720.0	655.7
60.0	562.8	602.8	668.0	599.3
63.0	503.8	544.3	611.9	539.9
66.0	443.6	484.3	553.1	480.0
69.0	383.2	423.7	493.2	419.4
72.0	321.8	361.9	432.1	358.0
75.0	261.3	298.9	369.9	297.0
78.0	202.2	239.1	307.4	237.2
81.0	144.1	180.4	245.3	179.3
84.0	89.51	124.6	185.4	123.1
87.0	39.29	73.38	127.8	71.83
90.0	0.6072	27.20	71.87	26.04

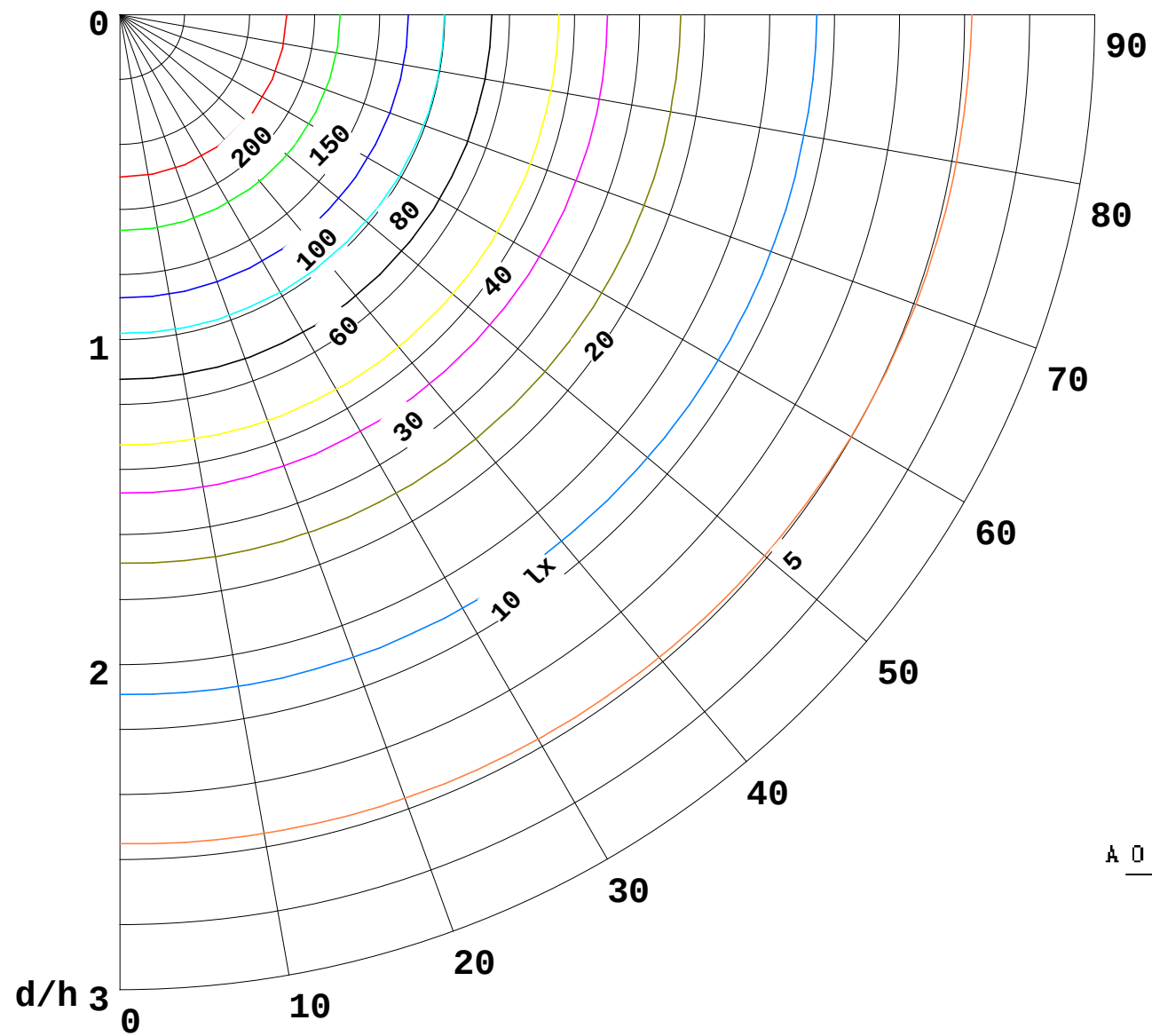
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 贏
 Test Date: 2024-03-30

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	Pw	Pfc
_____	70	50	30
_____	50	30	20

