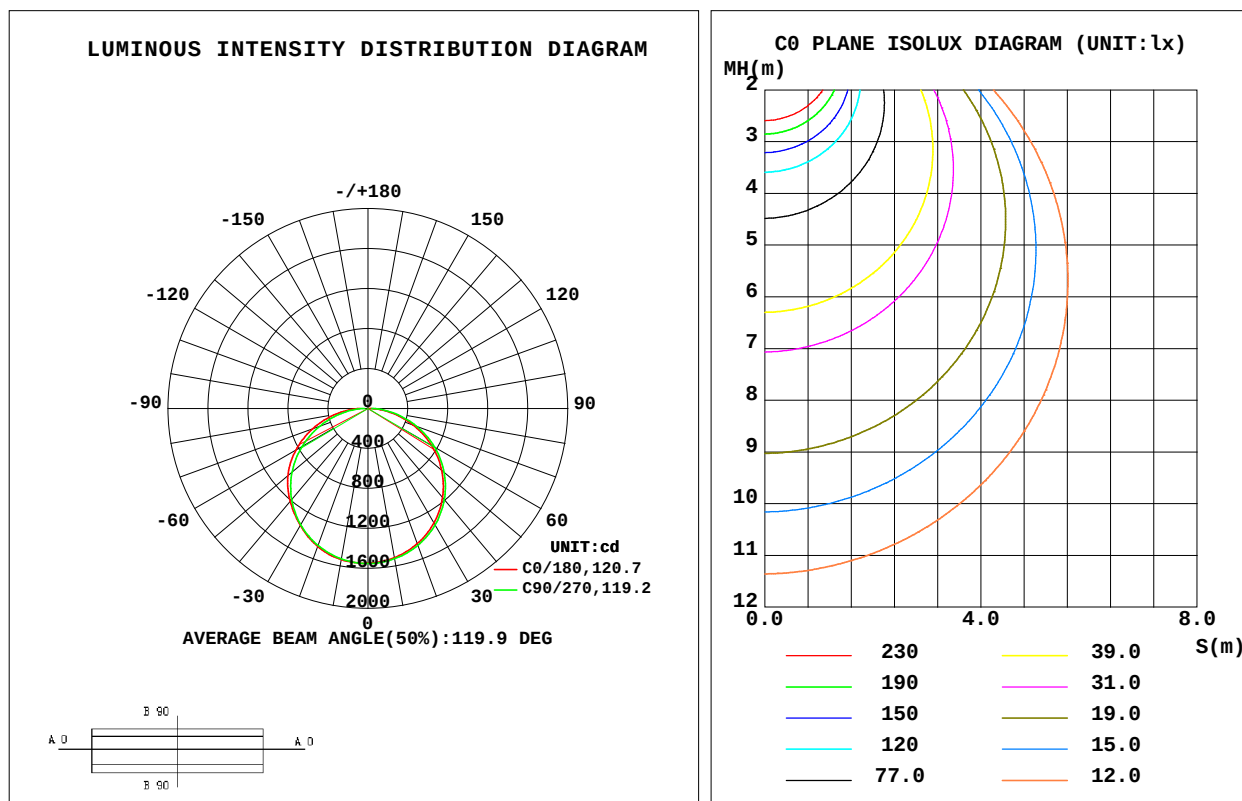


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.24V I:0.3152A P:37.619W PF:0.9926 Freq:59.98Hz Lamp Flux:4871.36x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 3500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.49 lm/W			
MODEL		I _{max} (cd)	1551	S/MH(C0/180)	1.30
NOMINAL POWER(W)	40w	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120-277v	TOTAL FLUX(lm)	4871.4	h UP, DN(C0-180)	0.0,48.8
NOMINAL FLUX(lm)	4871.36	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,51.2
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	1517	1527	1536	1529					0- 10	146.9	146.9	3.01, 3.01
20	1440	1458	1470	1459					10- 20	423.0	569.8	11.7, 11.7
30	1322	1344	1354	1345					20- 30	647.5	1217	25, 25
40	1162	1190	1212	1188					30- 40	794.3	2012	41.3, 41.3
50	964.9	996.2	1047	992.9					40- 50	847.6	2859	58.7, 58.7
60	732.5	768.8	834.1	762.0					50- 60	796.4	3656	75, 75
70	477.4	514.7	585.2	507.2					60- 70	642.7	4298	88.2, 88.2
80	222.7	256.2	324.5	252.3					70- 80	413.5	4712	96.7, 96.7
90	5.810	36.78	80.34	33.45					80- 90	159.5	4871	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		

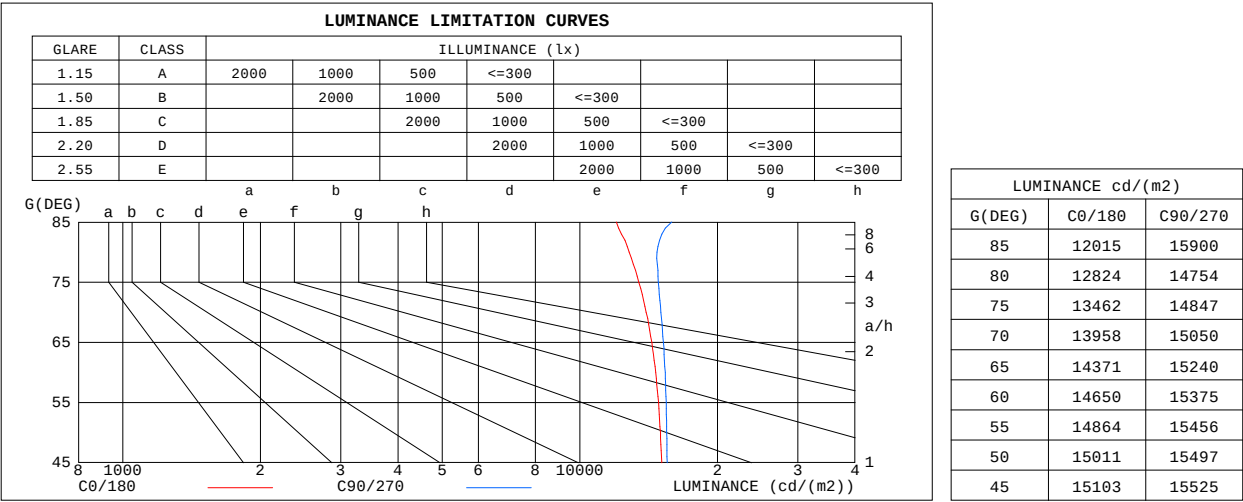
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

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:0.3152A P:37.619W PF:0.9926 Freq:59.98Hz Lamp Flux:4871.36x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 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

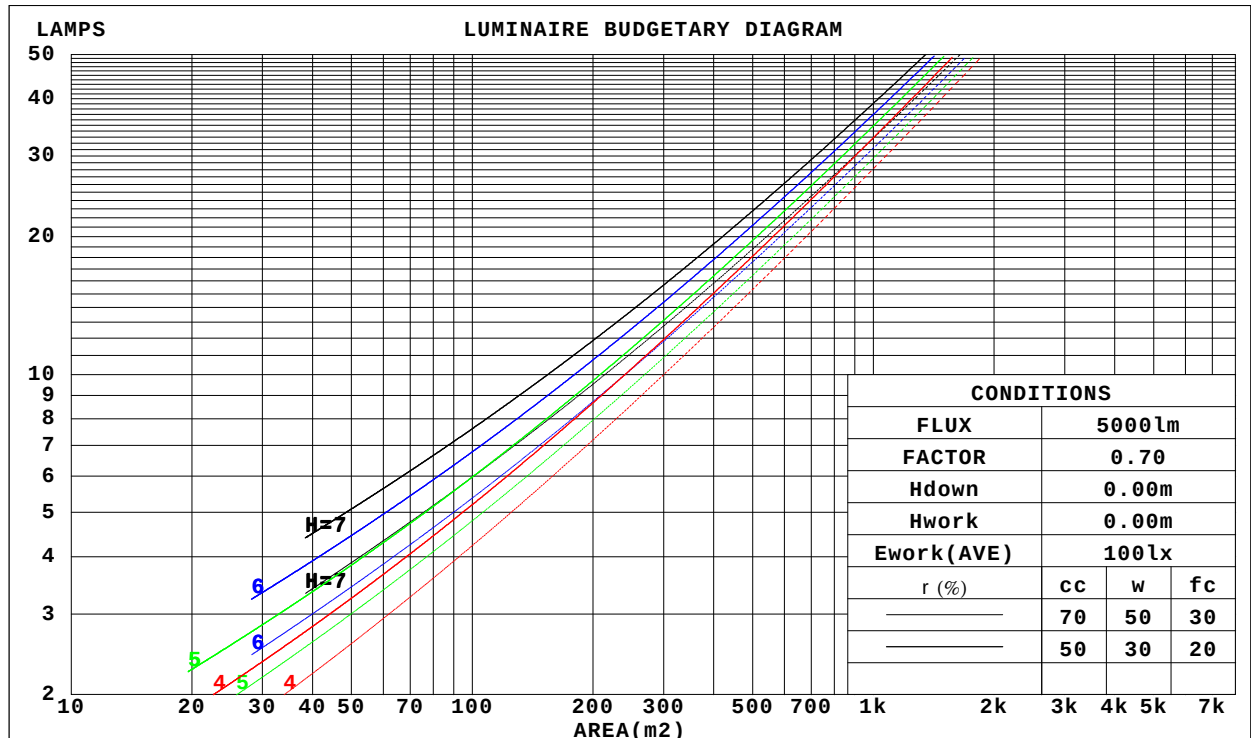
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.24V I:0.3152A P:37.619W PF:0.9926 Freq:59.98Hz Lamp Flux:4871.36x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 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	.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	.56	.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:0.3152A P:37.619W PF:0.9926 Freq:59.98Hz Lamp Flux:4871.36x1 lm					
NAME:			TYPE:		WEIGHT:
SPEC.:40w 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	.269	.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	.201	.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:0.3152A P:37.619W PF:0.9926 Freq:59.98Hz Lamp Flux:4871.36x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:40w 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	22.2	23.8	22.5	24.0	24.2	22.4	23.9	22.6	24.1	24.4	
	3H	23.8	25.3	24.1	25.5	25.8	24.1	25.6	24.4	25.8	26.0
	4H	24.5	25.9	24.9	26.2	26.4	24.9	26.2	25.2	26.5	26.8
	6H	25.1	26.4	25.4	26.7	27.0	25.5	26.8	25.8	27.1	27.3
	8H	25.3	26.5	25.6	26.8	27.1	25.7	27.0	26.1	27.3	27.6
	12H	25.4	26.6	25.8	26.9	27.2	25.9	27.1	26.3	27.4	27.7
4H	2H	22.9	24.3	23.2	24.5	24.8	23.0	24.4	23.3	24.7	24.9
	3H	24.7	25.9	25.1	26.2	26.5	24.9	26.2	25.3	26.4	26.8
	4H	25.6	26.7	25.9	27.0	27.3	25.8	26.9	26.2	27.3	27.6
	6H	26.2	27.2	26.6	27.6	28.0	26.6	27.6	27.0	27.9	28.3
	8H	26.5	27.4	26.9	27.8	28.2	26.9	27.8	27.3	28.2	28.6
	12H	26.7	27.5	27.1	27.9	28.3	27.2	28.0	27.6	28.4	28.8
8H	4H	25.9	26.8	26.3	27.2	27.6	26.1	27.1	26.5	27.4	27.8
	6H	26.8	27.5	27.2	27.9	28.4	27.1	27.9	27.5	28.3	28.7
	8H	27.1	27.8	27.6	28.2	28.7	27.5	28.2	28.0	28.6	29.1
	12H	27.4	28.0	27.9	28.5	28.9	27.9	28.5	28.4	28.9	29.4
12H	4H	25.9	26.8	26.4	27.2	27.6	26.2	27.0	26.6	27.4	27.8
	6H	26.9	27.6	27.3	28.0	28.4	27.2	27.9	27.6	28.3	28.7
	8H	27.3	27.9	27.7	28.3	28.8	27.6	28.2	28.1	28.7	29.2
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, 4871 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 5.5$)

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:0.3152A P:37.619W PF:0.9926 Freq:59.98Hz Lamp Flux:4871.36x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 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	37	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		

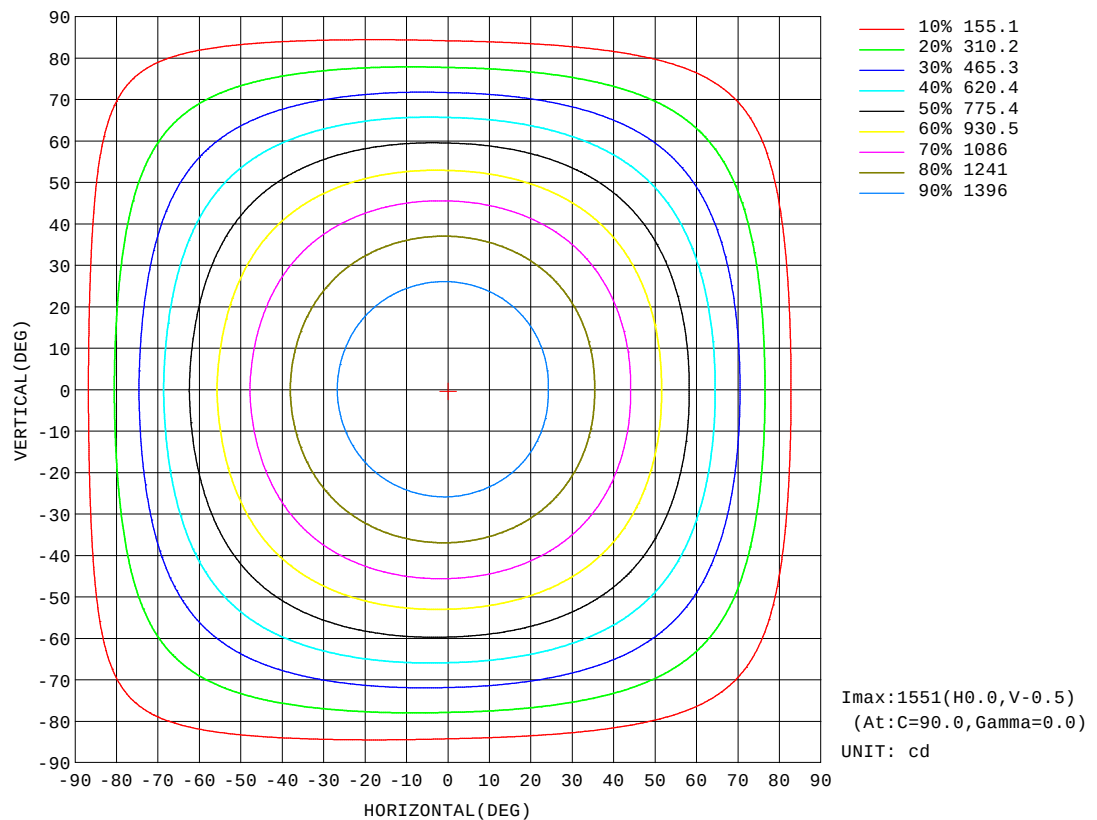
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

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:0.3152A P:37.619W PF:0.9926 Freq:59.98Hz Lamp Flux:4871.36x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 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

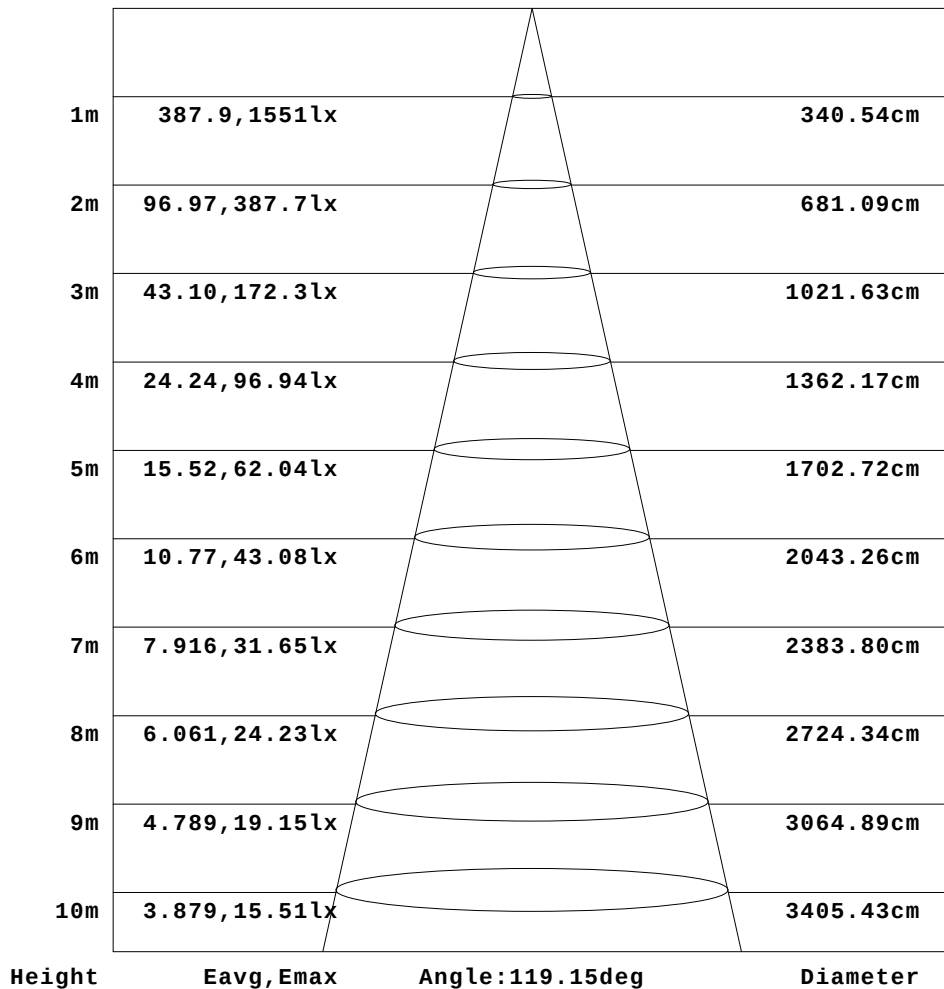
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.24V I:0.3152A P:37.619W PF:0.9926 Freq:59.98Hz Lamp Flux:4871.36x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 3500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:3656 lm



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

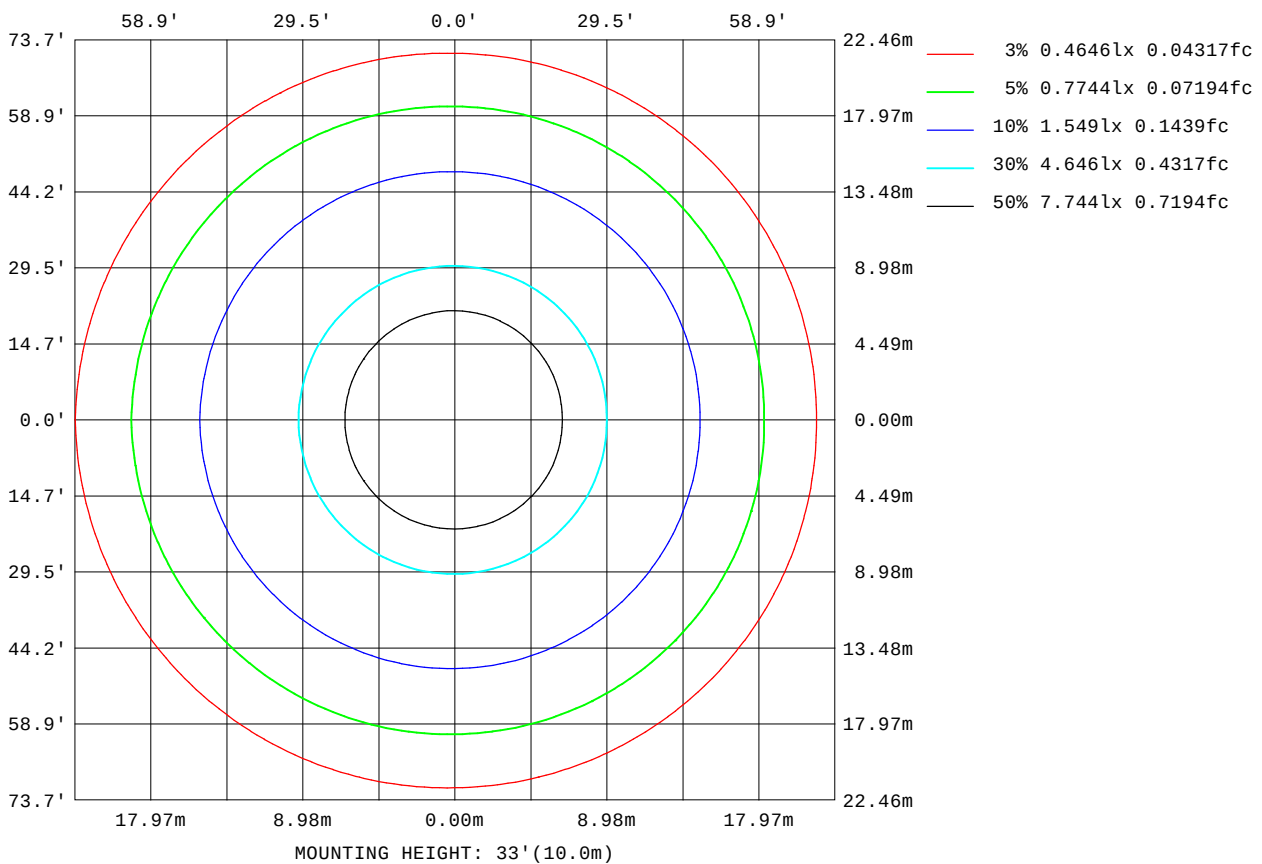
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 赢
 Test Date:2024-03-30

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:0.3152A P:37.619W PF:0.9926 Freq:59.98Hz Lamp Flux:4871.36x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 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:0.3152A P:37.619W PF:0.9926 Freq:59.98Hz Lamp Flux:4871.36x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 3500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

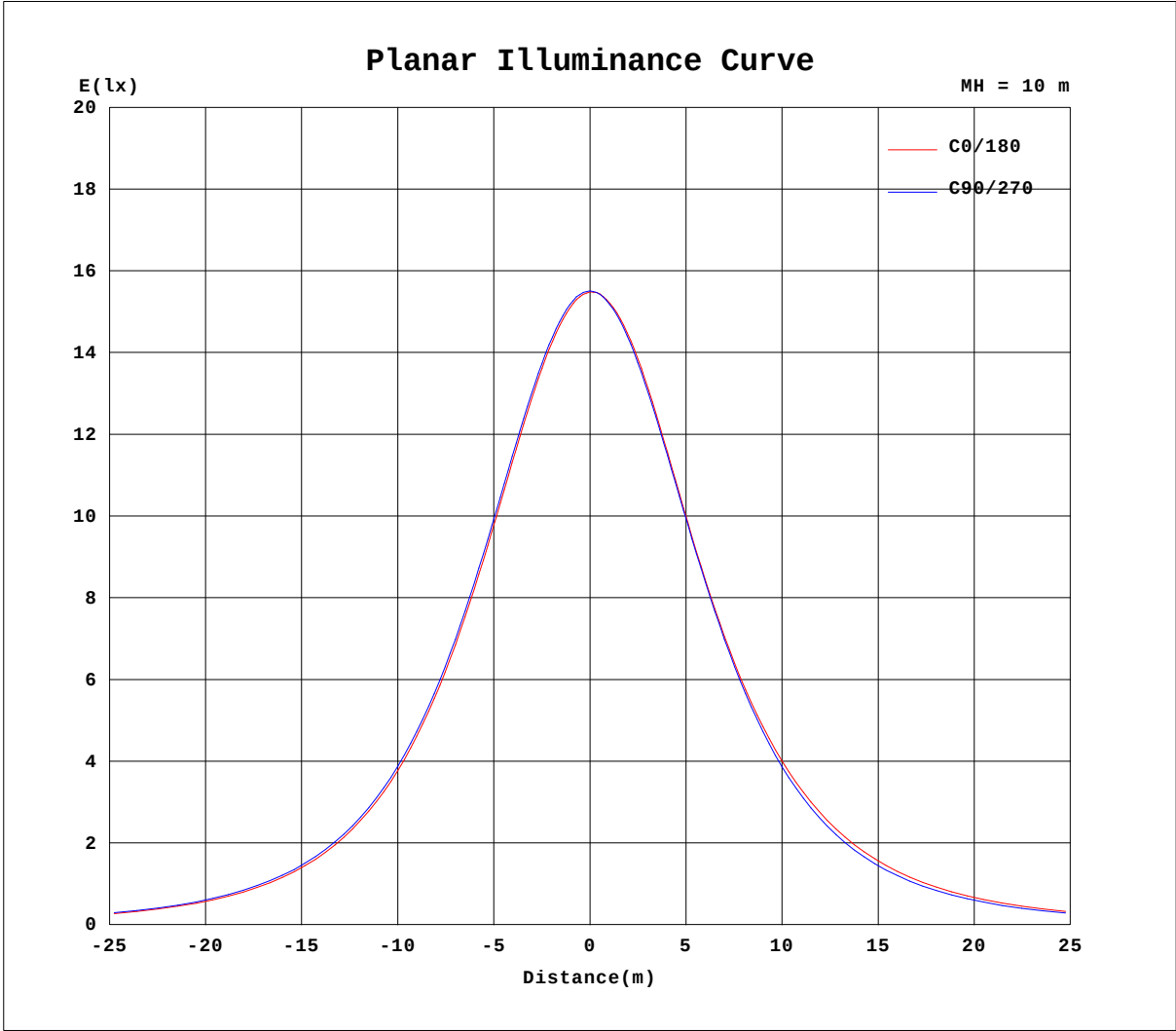
AvgL	cd/m2
L_0~180(65)av	15615
L_0~180(75)av	15506
L_0~180(85)av	17338
L_90~270(65)av	15145
L_90~270(75)av	14720
L_90~270(85)av	15665
L_45(65)av	15399
L_45(75)av	15142
L_45(85)av	16625

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:

```

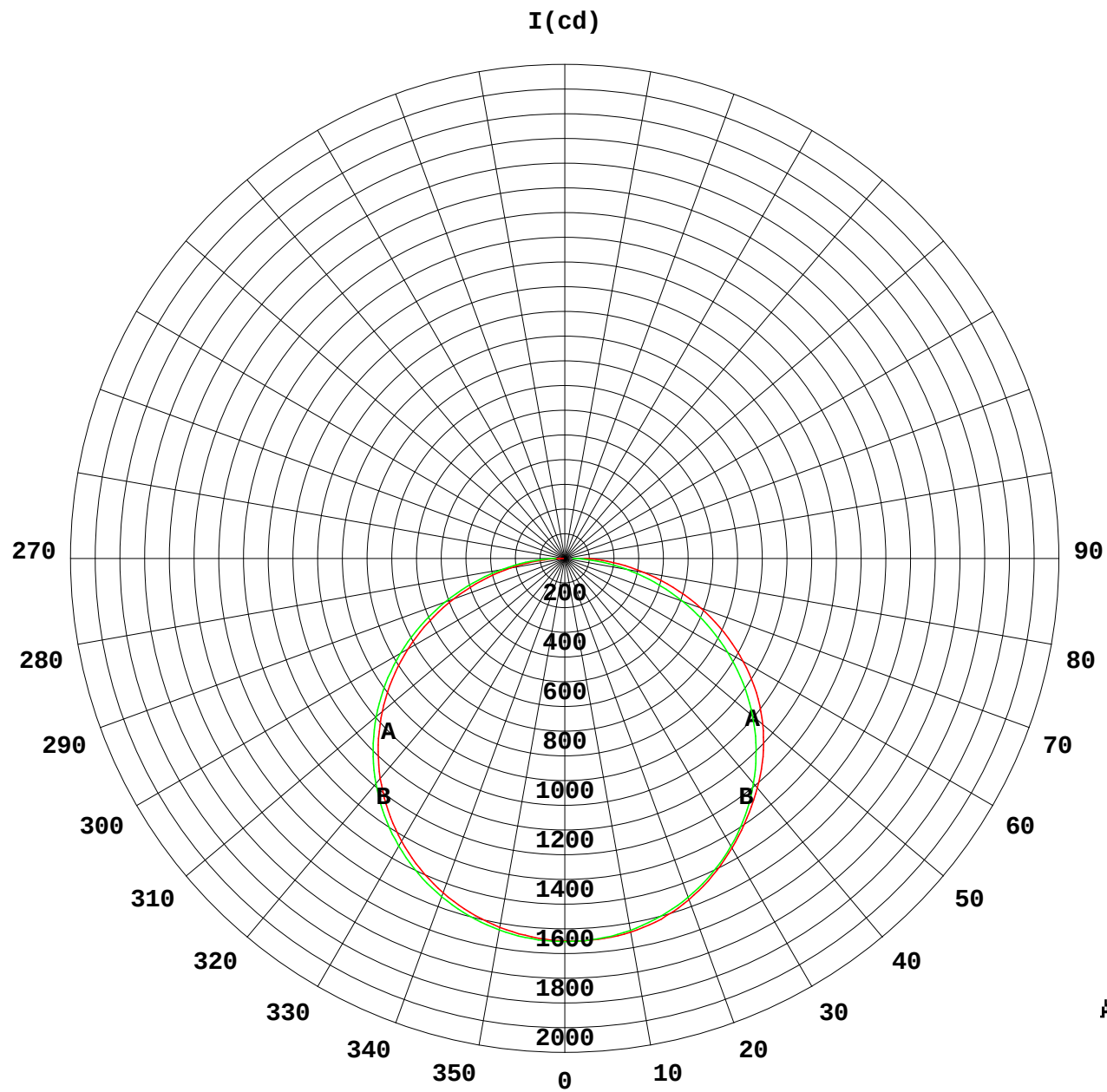
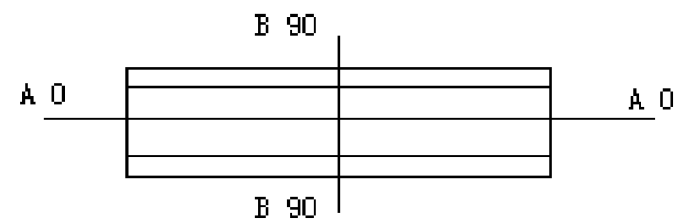
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	1549	1551	1549	1551
3.0	1543	1548	1550	1550
6.0	1534	1543	1546	1543
9.0	1522	1532	1540	1533
12.0	1504	1517	1527	1518
15.0	1483	1498	1511	1500
18.0	1458	1476	1488	1477
21.0	1430	1448	1460	1450
24.0	1398	1417	1428	1420
27.0	1361	1382	1392	1384
30.0	1322	1344	1354	1345
33.0	1278	1302	1313	1303
36.0	1231	1257	1271	1256
39.0	1180	1207	1227	1206
42.0	1126	1154	1182	1153
45.0	1068	1098	1135	1095
48.0	1007	1038	1082	1034
51.0	942.7	974.8	1028	970.7
54.0	875.1	908.7	967.1	904.4
57.0	805.2	839.9	902.5	833.9
60.0	732.5	768.8	834.1	762.0
63.0	658.0	694.5	761.7	686.7
66.0	580.7	618.1	687.2	610.5
69.0	504.3	541.1	610.9	533.6
72.0	425.9	462.4	533.1	455.5
75.0	348.4	384.3	454.2	377.7
78.0	272.4	307.4	376.8	301.9
81.0	198.7	231.9	297.4	228.1
84.0	127.2	160.8	222.0	157.6
87.0	61.99	95.67	150.0	91.82
90.0	5.810	36.78	80.34	33.45

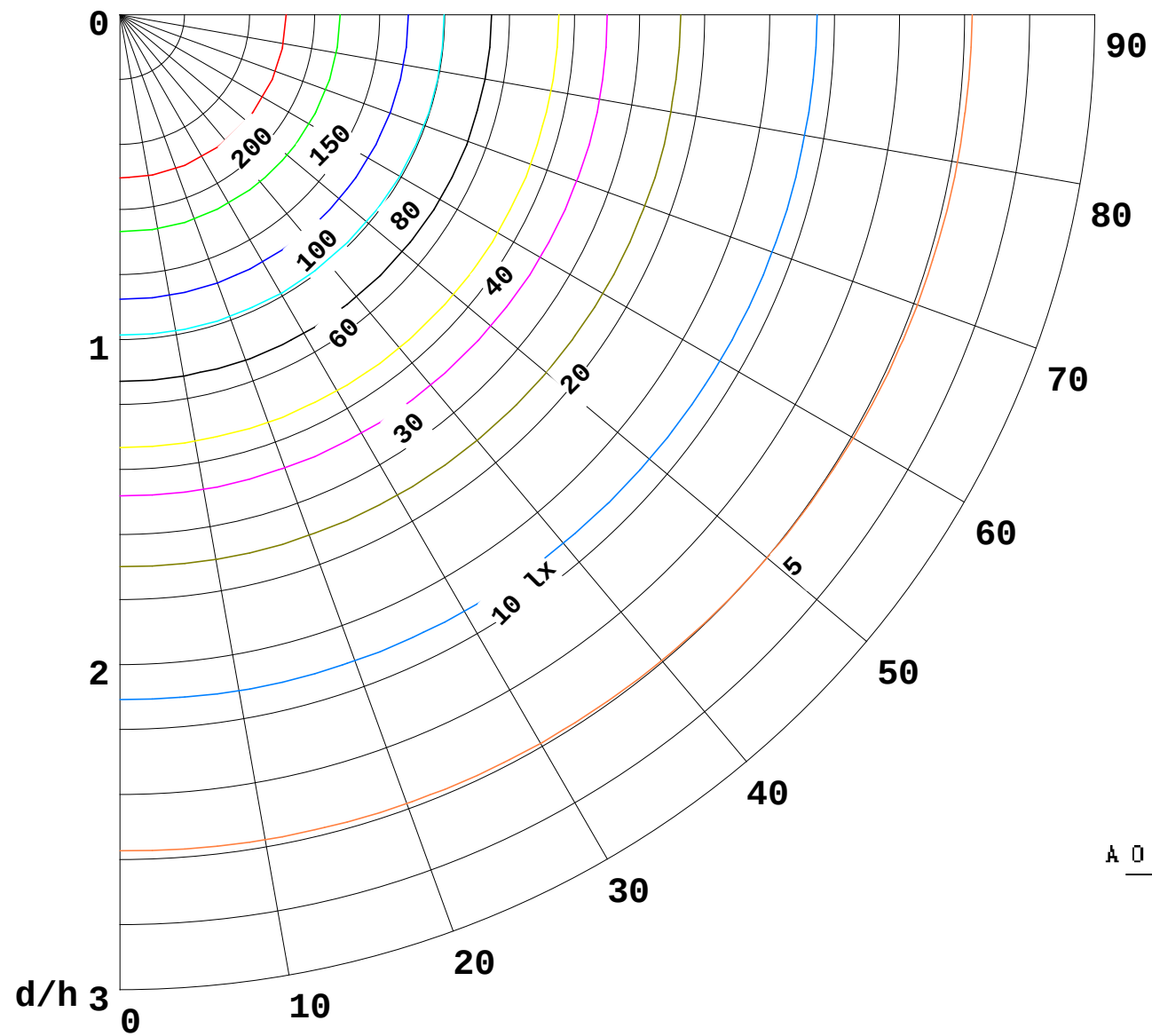
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 贏
Test Date: 2024-03-30

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	Pw	Pfc
_____	70	50	30
_____	50	30	20

