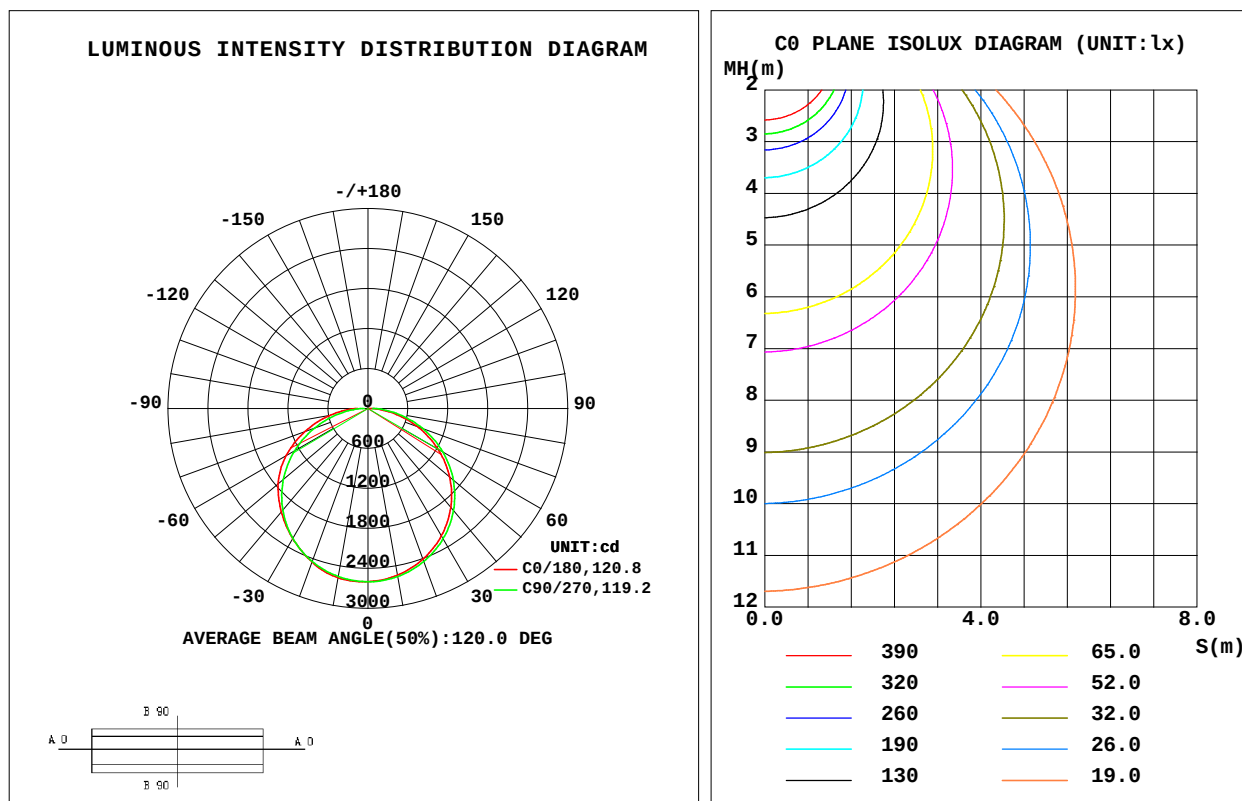


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.21V I:0.5519A P:66.168W PF:0.9974 Freq:59.98Hz Lamp Flux:8165.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 5700k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 123.40 lm/W			
MODEL		I _{max} (cd)	2601	S/MH(C0/180)	1.29
NOMINAL POWER(W)	72w	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120-277v	TOTAL FLUX(lm)	8165.2	h UP, DN(C0-180)	0.0,48.6
NOMINAL FLUX(lm)	8165.21	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,51.4
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	2540	2561	2579	2562					0- 10	246.3	246.3	3.02, 3.02
20	2409	2447	2455	2445					10- 20	708.7	954.9	11.7, 11.7
30	2205	2256	2258	2254					20- 30	1083	2038	25, 25
40	1935	1997	2024	1989					30- 40	1329	3367	41.2, 41.2
50	1601	1675	1762	1661					40- 50	1418	4784	58.6, 58.6
60	1210	1294	1421	1274					50- 60	1335	6120	74.9, 74.9
70	782.1	868.8	1005	845.8					60- 70	1079	7199	88.2, 88.2
80	356.5	438.0	566.1	418.9					70- 80	695.4	7894	96.7, 96.7
90	4.627	67.30	153.7	54.37					80- 90	271.2	8165	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		

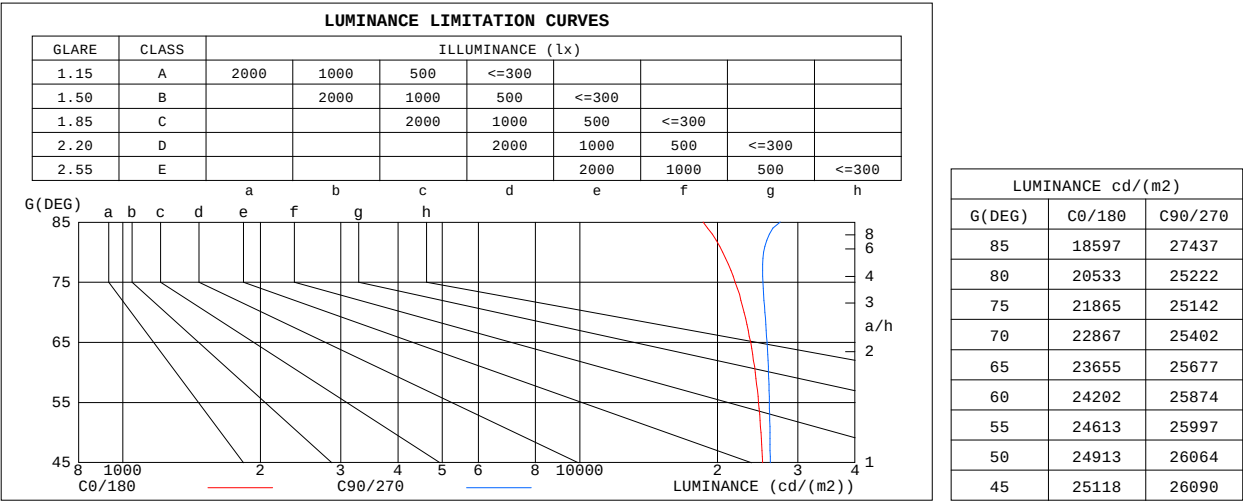
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

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:120.21V I:0.5519A P:66.168W PF:0.9974 Freq:59.98Hz Lamp Flux:8165.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 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

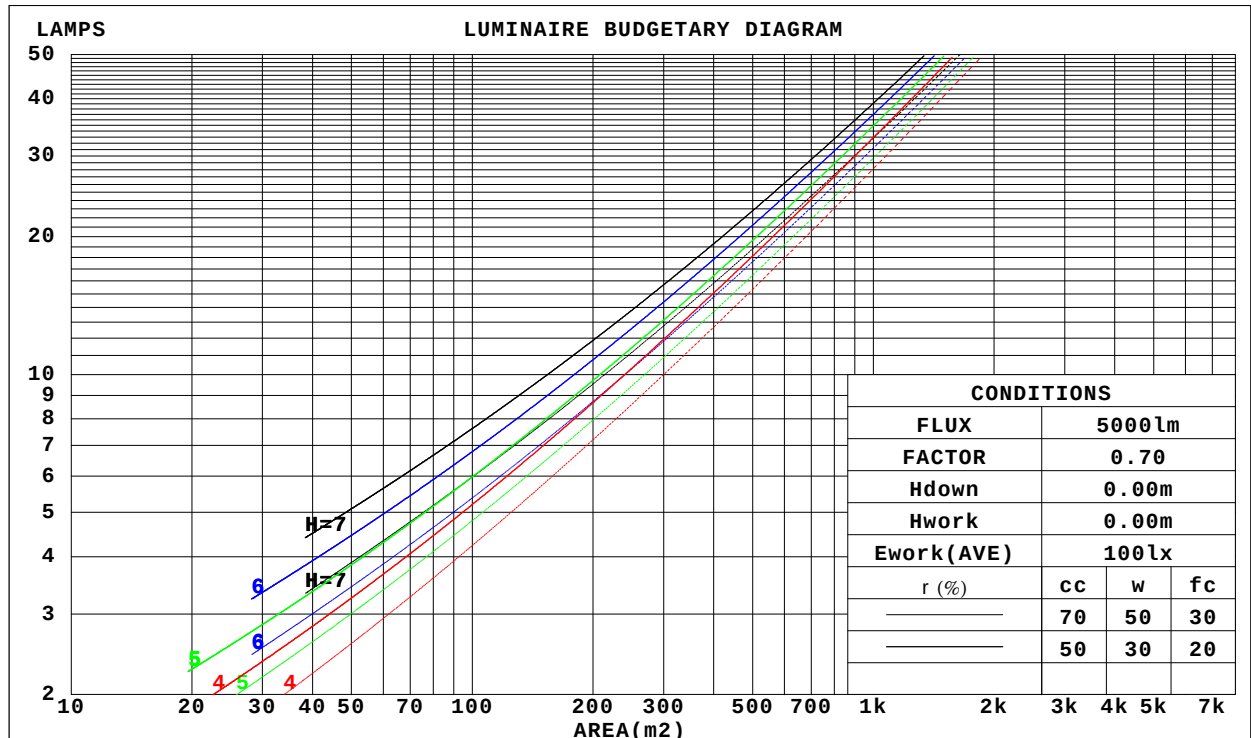
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.21V I:0.5519A P:66.168W PF:0.9974 Freq:59.98Hz Lamp Flux:8165.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 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	.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	.49	.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	.38	.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	.37	.30	.24	.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 G0-2000B_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:120.21V I:0.5519A P:66.168W PF:0.9974 Freq:59.98Hz Lamp Flux:8165.21x1 lm					
NAME:			TYPE:		WEIGHT:
SPEC.:72w 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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.336	.191	.060	.329	.187	.060	.315	.181	.058	.303	.175	.056	.292	.169	.054		
2.0	.309	.169	.052	.303	.167	.051	.291	.162	.050	.280	.157	.049	.270	.153	.048		
3.0	.283	.150	.045	.277	.148	.045	.267	.144	.044	.257	.141	.043	.248	.137	.042		
4.0	.259	.135	.040	.254	.133	.039	.245	.130	.039	.236	.127	.038	.228	.124	.038		
5.0	.238	.121	.035	.234	.120	.035	.225	.117	.035	.218	.115	.034	.210	.112	.034		
6.0	.220	.110	.032	.216	.109	.031	.208	.107	.031	.202	.105	.031	.195	.103	.031		
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	.178	.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	.150	.113	.083	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.167	.114	.072	.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:120.21V I:0.5519A P:66.168W PF:0.9974 Freq:59.98Hz Lamp Flux:8165.21x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:72w 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	23.9	25.5	24.2	25.7	25.9	24.2	25.7	24.4	25.9	26.2	
	3H	25.6	27.0	25.9	27.2	27.5	25.9	27.4	26.2	27.6	27.8
	4H	26.2	27.6	26.5	27.9	28.1	26.7	28.1	27.0	28.3	28.6
	6H	26.7	28.1	27.1	28.3	28.6	27.3	28.6	27.6	28.9	29.2
	8H	26.9	28.2	27.3	28.5	28.8	27.5	28.8	27.9	29.1	29.4
	12H	27.0	28.3	27.4	28.6	28.9	27.8	29.0	28.1	29.3	29.6
4H	2H	24.6	26.0	24.9	26.3	26.5	24.8	26.2	25.1	26.4	26.7
	3H	26.4	27.7	26.8	28.0	28.3	26.7	27.9	27.1	28.2	28.6
	4H	27.2	28.4	27.6	28.7	29.0	27.6	28.7	28.0	29.1	29.4
	6H	27.9	28.9	28.3	29.3	29.6	28.4	29.4	28.8	29.8	30.1
	8H	28.1	29.1	28.6	29.4	29.8	28.7	29.7	29.1	30.0	30.4
	12H	28.3	29.2	28.7	29.6	30.0	29.0	29.9	29.4	30.2	30.7
8H	4H	27.6	28.5	28.0	28.9	29.3	27.9	28.9	28.3	29.2	29.6
	6H	28.4	29.2	28.9	29.6	30.0	28.9	29.7	29.3	30.1	30.5
	8H	28.8	29.5	29.2	29.9	30.3	29.3	30.0	29.8	30.4	30.9
	12H	29.0	29.6	29.5	30.1	30.6	29.7	30.3	30.2	30.8	31.2
12H	4H	27.6	28.5	28.1	28.9	29.3	27.9	28.8	28.4	29.2	29.6
	6H	28.5	29.2	29.0	29.7	30.1	29.0	29.7	29.4	30.1	30.5
	8H	28.9	29.5	29.4	30.0	30.5	29.4	30.1	29.9	30.5	31.0
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, 8165 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 7.3$)

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:120.21V I:0.5519A P:66.168W PF:0.9974 Freq:59.98Hz Lamp Flux:8165.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 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	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	46
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	76	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	75
4.00	105	99	94	103	97	92	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		

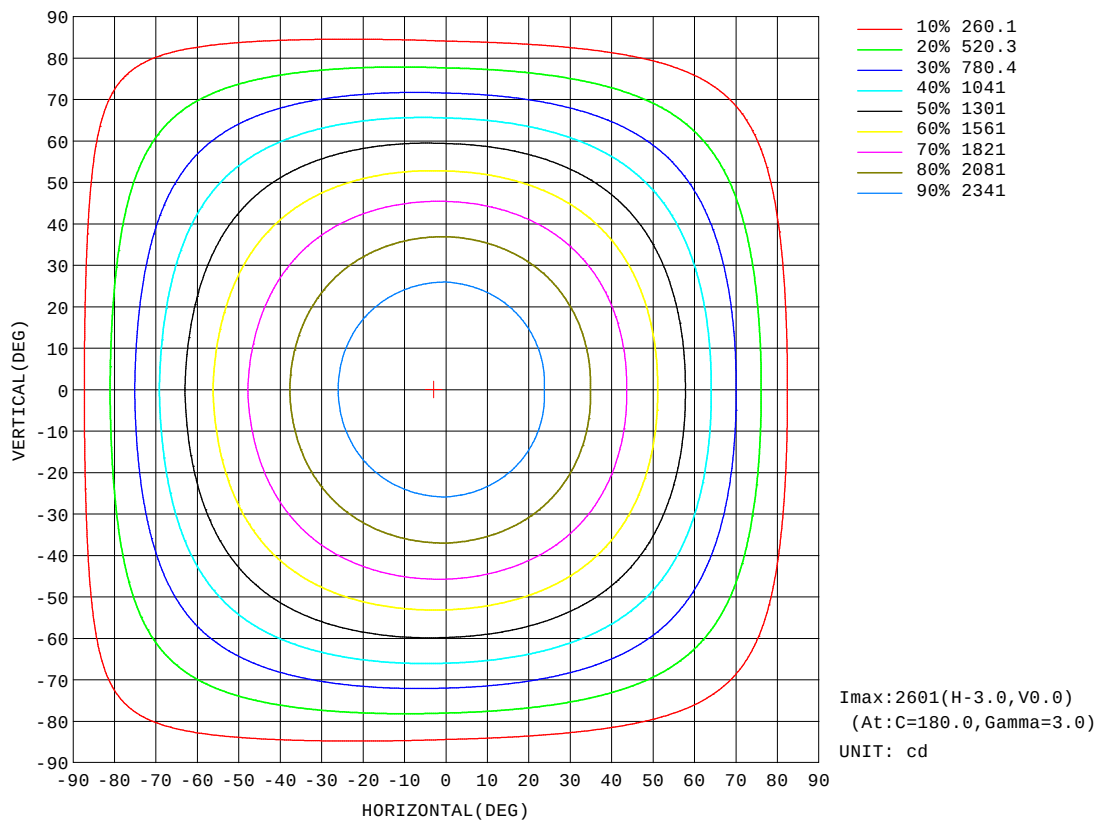
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

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:120.21V I:0.5519A P:66.168W PF:0.9974 Freq:59.98Hz Lamp Flux:8165.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 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

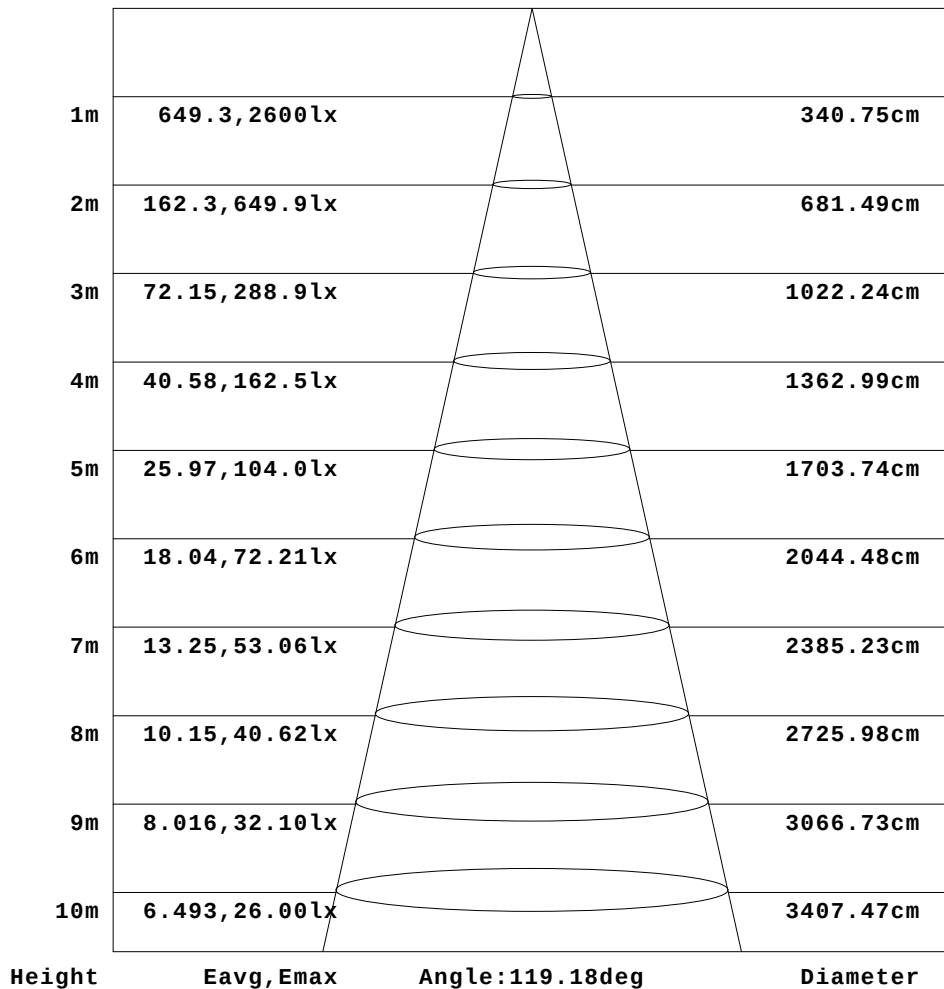
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.21V I:0.5519A P:66.168W PF:0.9974 Freq:59.98Hz Lamp Flux:8165.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 5700k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:6120 lm



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

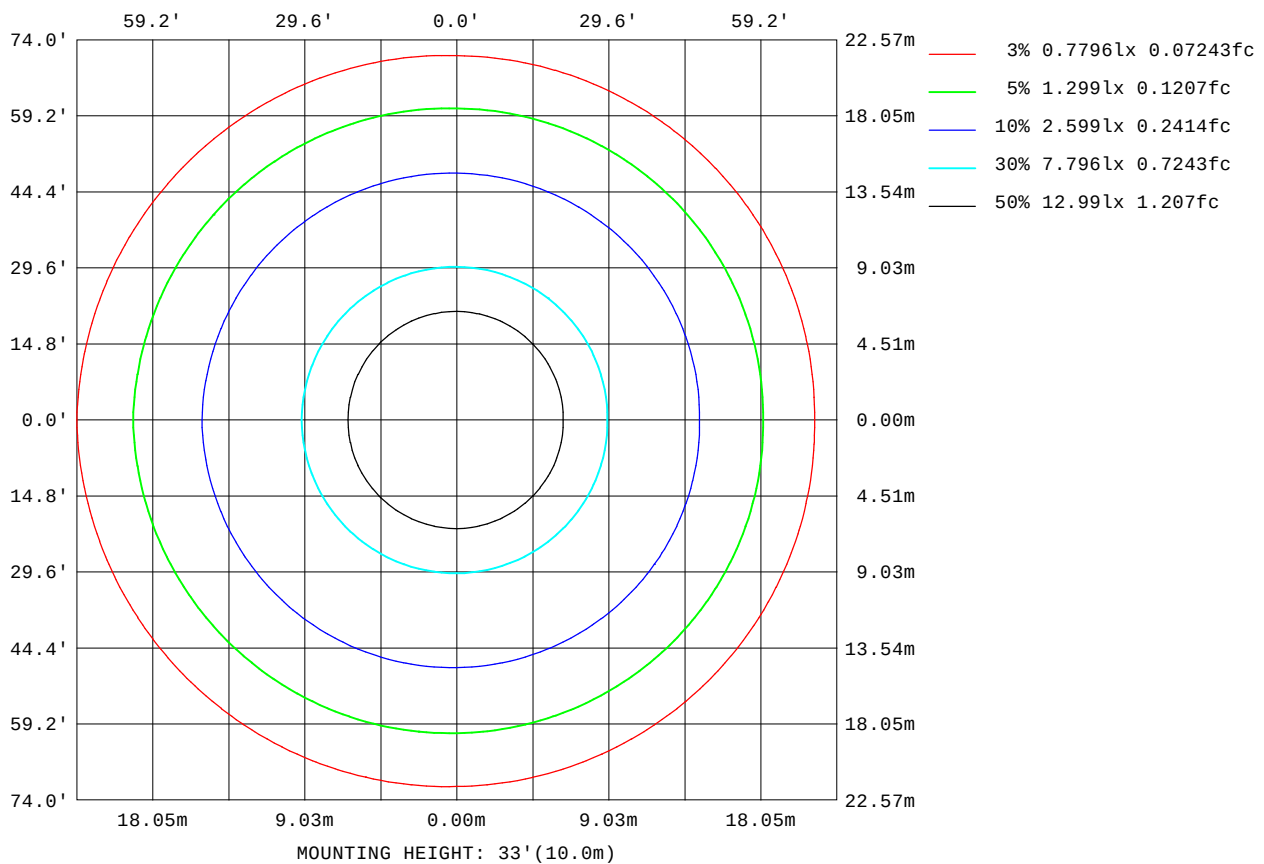
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 贏
Test Date:2024-03-30

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:120.21V I:0.5519A P:66.168W PF:0.9974 Freq:59.98Hz Lamp Flux:8165.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 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:120.21V I:0.5519A P:66.168W PF:0.9974 Freq:59.98Hz Lamp Flux:8165.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 5700k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

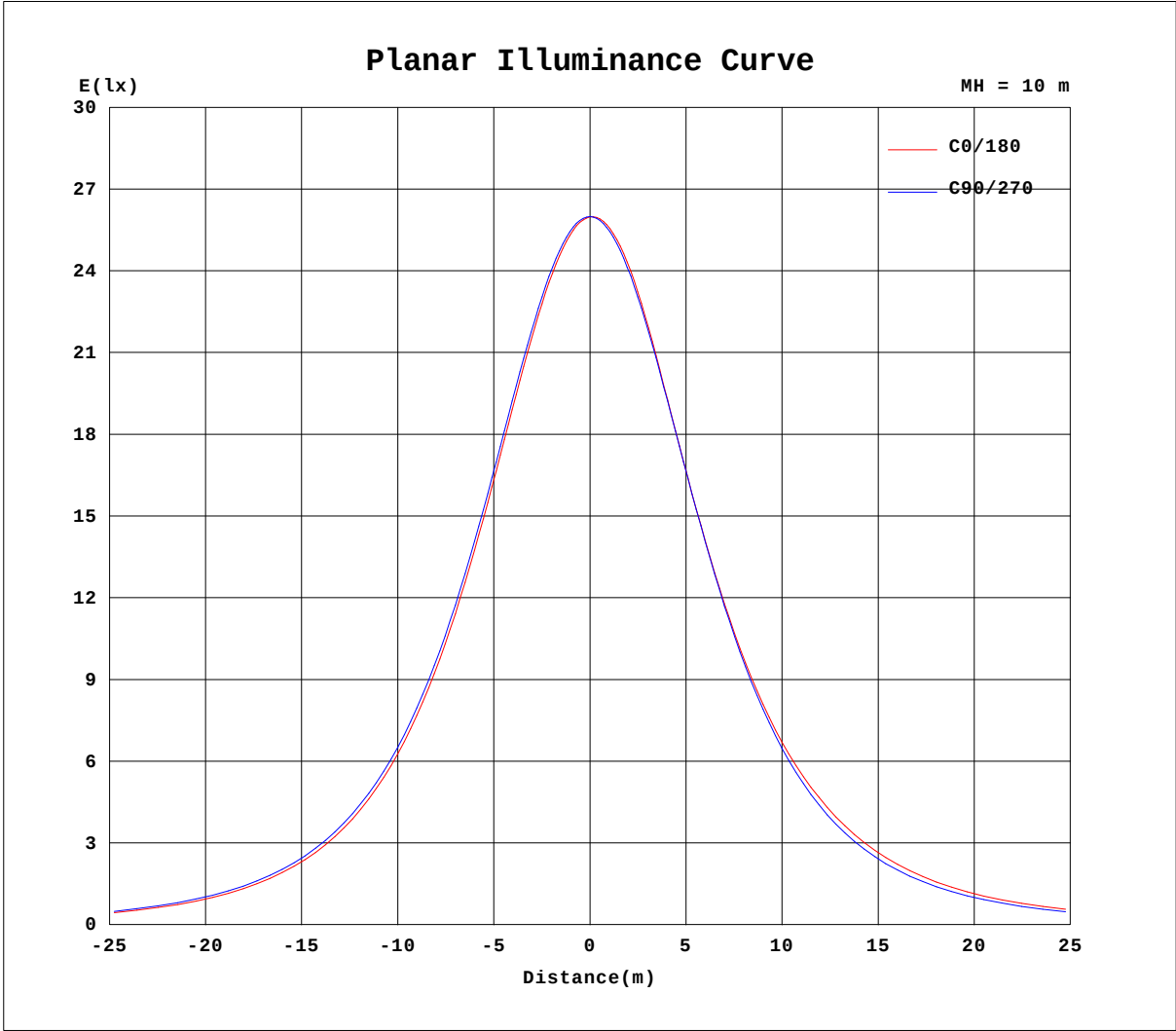
AvgL	cd/m2
L_0~180(65)av	26242
L_0~180(75)av	26107
L_0~180(85)av	29617
L_90~270(65)av	25398
L_90~270(75)av	24716
L_90~270(85)av	26593
L_45(65)av	25876
L_45(75)av	25503
L_45(85)av	28416

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:
```

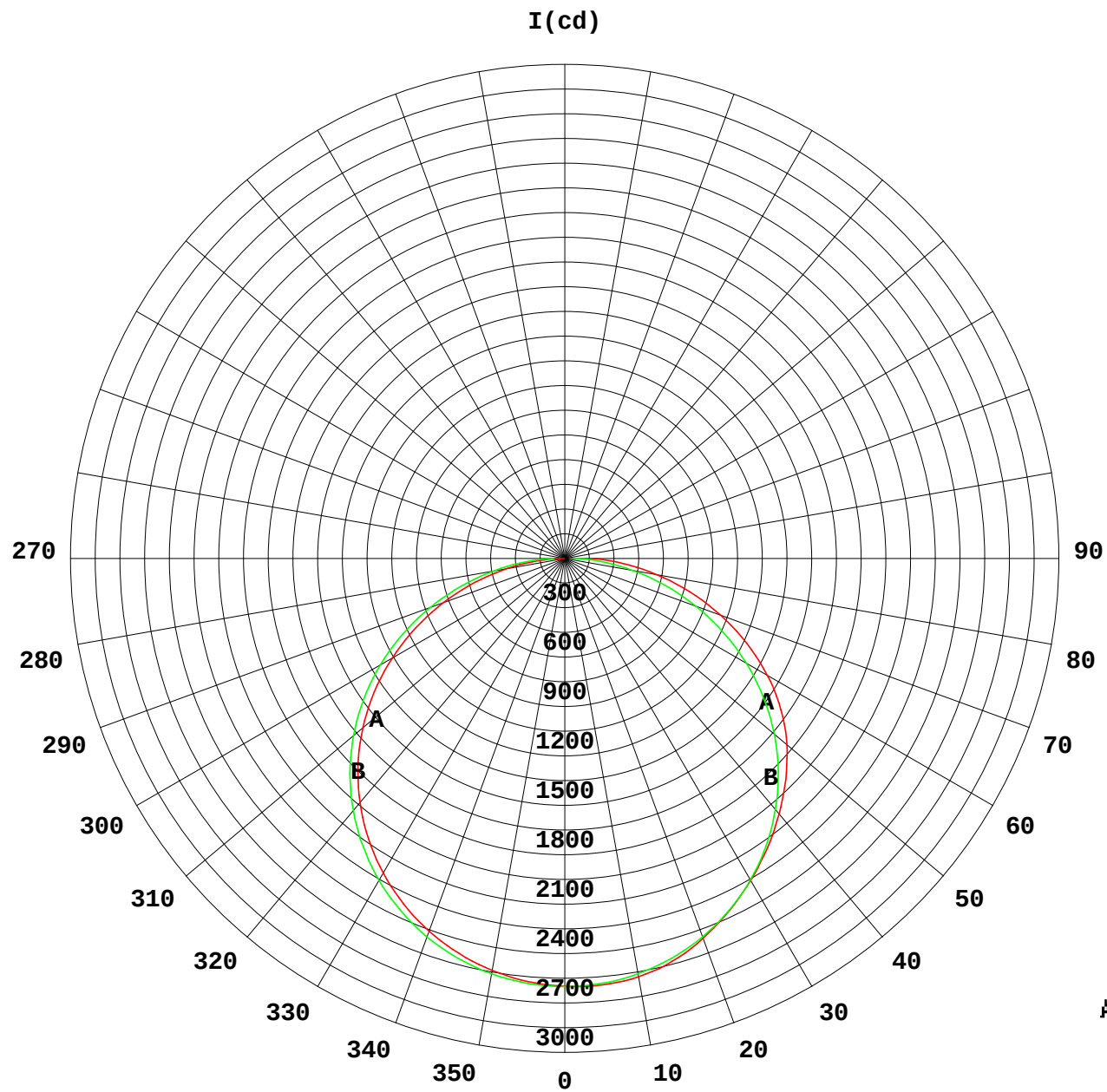
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	2599	2600	2599	2600
3.0	2589	2596	2601	2596
6.0	2573	2586	2598	2586
9.0	2549	2568	2586	2569
12.0	2520	2544	2564	2545
15.0	2483	2513	2531	2513
18.0	2441	2474	2489	2475
21.0	2391	2431	2436	2429
24.0	2337	2378	2381	2378
27.0	2273	2320	2321	2320
30.0	2205	2256	2258	2254
33.0	2131	2187	2190	2183
36.0	2052	2111	2122	2104
39.0	1965	2028	2049	2019
42.0	1874	1940	1974	1930
45.0	1776	1845	1897	1834
48.0	1673	1744	1816	1731
51.0	1564	1639	1733	1623
54.0	1451	1528	1636	1512
57.0	1332	1413	1532	1394
60.0	1210	1294	1421	1274
63.0	1084	1170	1301	1147
66.0	954.9	1042	1176	1019
69.0	826.7	913.4	1048	890.1
72.0	695.3	781.6	918.5	758.7
75.0	565.9	650.7	785.5	628.7
78.0	439.3	522.6	654.8	502.2
81.0	316.5	397.1	523.4	378.8
84.0	199.1	276.4	395.8	261.4
87.0	90.85	166.9	272.1	152.3
90.0	4.627	67.30	153.7	54.37

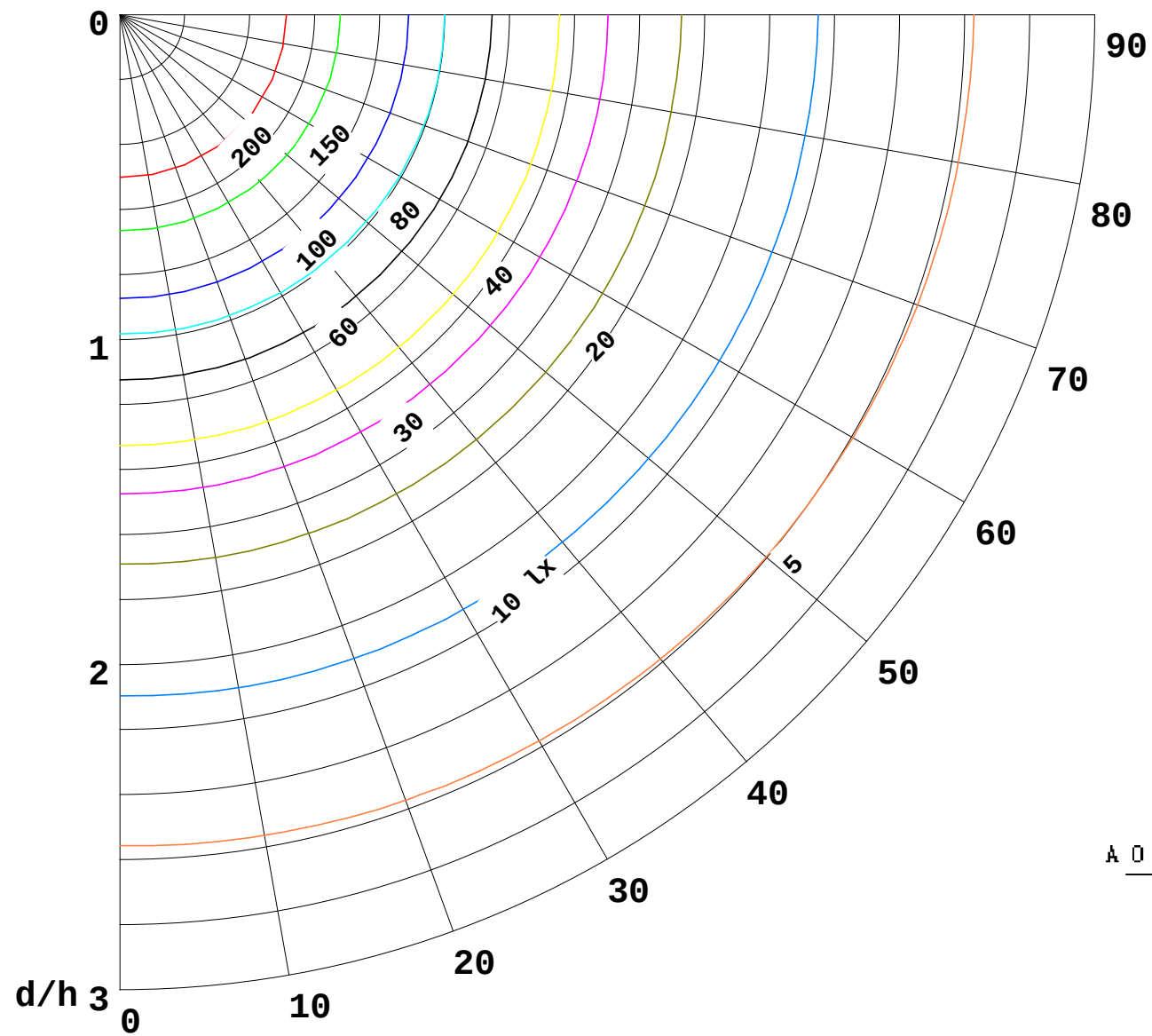
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 贏
Test Date: 2024-03-30

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	Pw	Pfc
_____	70	50	30
_____	50	30	20

