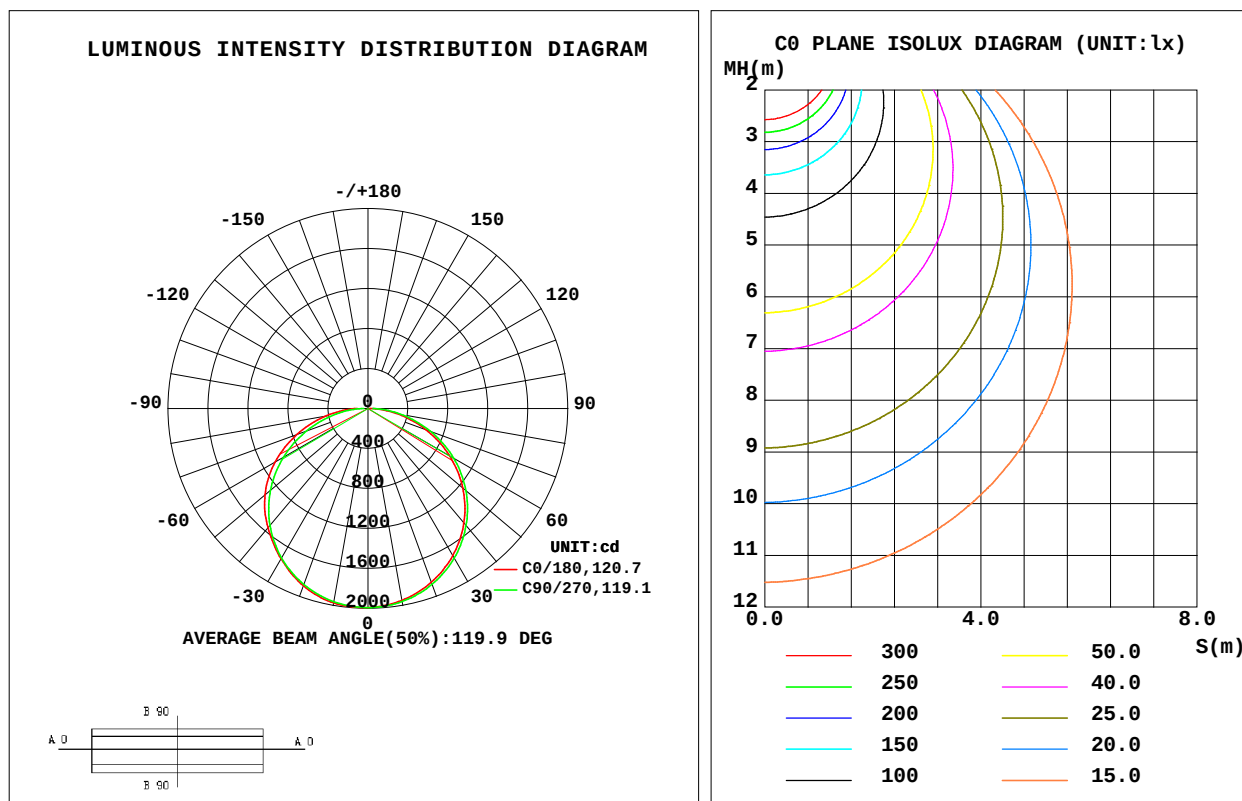


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.22V I:0.3899A P:46.665W PF:0.9956 Freq:59.98Hz Lamp Flux:6260.95x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:50w 4000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.17 lm/W			
MODEL		I _{max} (cd)	1992	S/MH(C0/180)	1.30
NOMINAL POWER(W)	50w	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120-277v	TOTAL FLUX(lm)	6260.9	h UP, DN(C0-180)	0.0,48.8
NOMINAL FLUX(lm)	6260.95	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: 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	1950	1962	1975	1963					0- 10	188.7	188.7	3.01, 3.01
20	1851	1873	1889	1874					10- 20	543.5	732.2	11.7, 11.7
30	1698	1727	1739	1729					20- 30	831.9	1564	25, 25
40	1493	1528	1558	1526					30- 40	1020	2584	41.3, 41.3
50	1239	1281	1346	1275					40- 50	1089	3673	58.7, 58.7
60	940.7	988.4	1074	977.6					50- 60	1024	4697	75, 75
70	612.1	662.0	754.7	651.3					60- 70	826.1	5523	88.2, 88.2
80	284.9	331.7	419.3	323.7					70- 80	531.9	6055	96.7, 96.7
90	6.936	48.26	106.0	43.05					80- 90	206.0	6261	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		

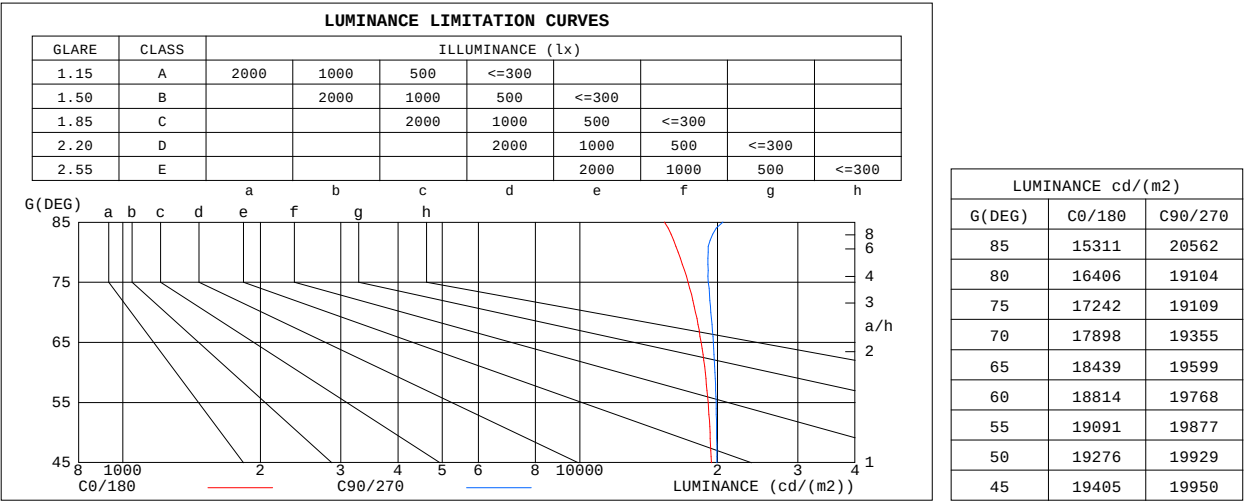
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

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:120.22V I:0.3899A P:46.665W PF:0.9956 Freq:59.98Hz Lamp Flux:6260.95x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:50w 4000k	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

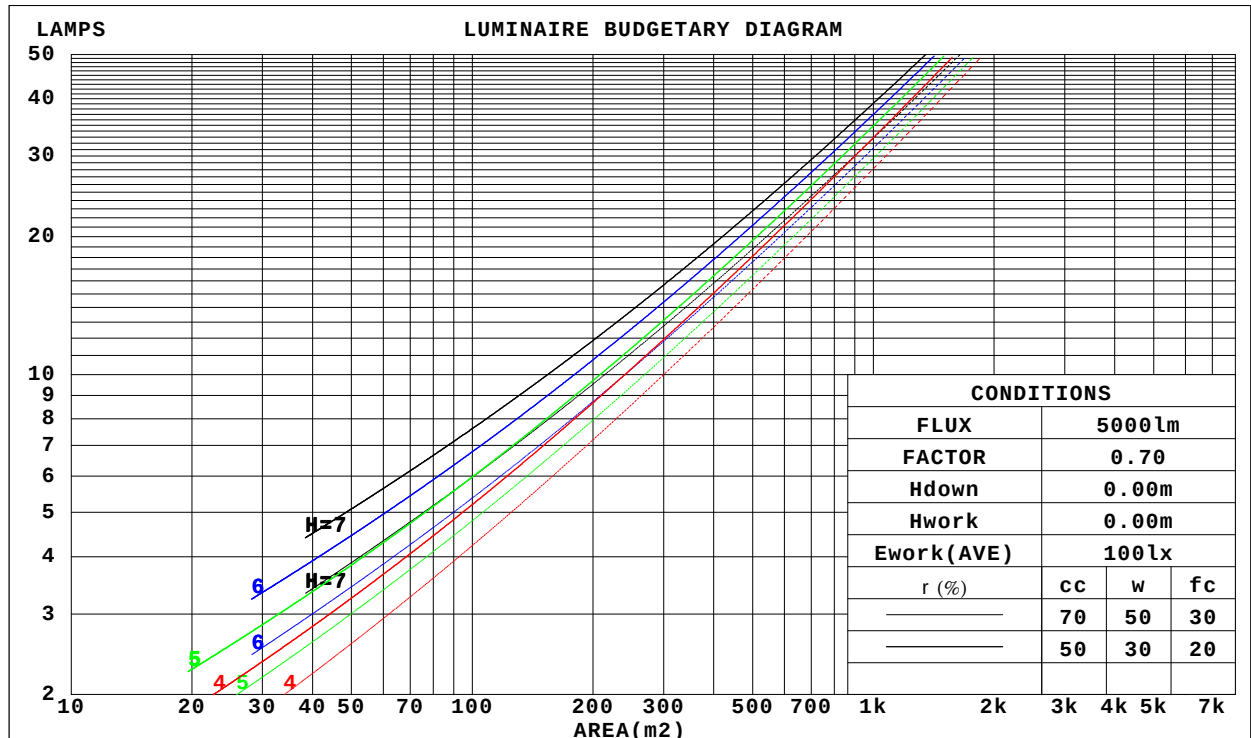
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.22V I:0.3899A P:46.665W PF:0.9956 Freq:59.98Hz Lamp Flux:6260.95x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:50w 4000k	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	.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 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:120.22V I:0.3899A P:46.665W PF:0.9956 Freq:59.98Hz Lamp Flux:6260.95x1 lm					
NAME:			TYPE:		WEIGHT:
SPEC.:50w 4000k			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	.181	.058	.302	.174	.056	.291	.169	.054	
2.0	.309	.169	.052	.303	.167	.051	.291	.162	.050	.280	.157	.049	.270	.152	.048	
3.0	.283	.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:120.22V I:0.3899A P:46.665W PF:0.9956 Freq:59.98Hz Lamp Flux:6260.95x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:50w 4000k					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	23.1	24.6	23.3	24.8	25.1	23.2	24.8	23.5	25.0	25.2	
	3H	24.7	26.2	25.0	26.4	26.6	25.0	26.4	25.3	26.7	26.9
	4H	25.4	26.8	25.7	27.0	27.3	25.7	27.1	26.0	27.4	27.6
	6H	25.9	27.3	26.3	27.5	27.8	26.3	27.7	26.7	27.9	28.2
	8H	26.1	27.4	26.5	27.7	28.0	26.6	27.9	26.9	28.1	28.4
	12H	26.3	27.5	26.6	27.8	28.1	26.8	28.0	27.1	28.3	28.6
4H	2H	23.7	25.1	24.1	25.4	25.7	23.9	25.3	24.2	25.5	25.8
	3H	25.6	26.8	25.9	27.1	27.4	25.8	27.0	26.2	27.3	27.6
	4H	26.4	27.5	26.8	27.9	28.2	26.7	27.8	27.1	28.1	28.5
	6H	27.1	28.1	27.5	28.4	28.8	27.5	28.5	27.9	28.8	29.2
	8H	27.3	28.3	27.8	28.7	29.0	27.8	28.7	28.2	29.1	29.5
	12H	27.5	28.4	28.0	28.8	29.2	28.0	28.9	28.5	29.3	29.7
8H	4H	26.8	27.7	27.2	28.1	28.5	27.0	27.9	27.4	28.3	28.7
	6H	27.6	28.4	28.1	28.8	29.2	28.0	28.7	28.4	29.1	29.6
	8H	28.0	28.7	28.4	29.1	29.6	28.4	29.1	28.8	29.5	30.0
	12H	28.3	28.9	28.7	29.3	29.8	28.8	29.4	29.2	29.8	30.3
12H	4H	26.8	27.7	27.2	28.0	28.5	27.0	27.9	27.5	28.3	28.7
	6H	27.7	28.4	28.2	28.8	29.3	28.0	28.7	28.5	29.2	29.6
	8H	28.1	28.7	28.6	29.2	29.7	28.5	29.1	29.0	29.6	30.0
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, 6261 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.4$)

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:120.22V I:0.3899A P:46.665W PF:0.9956 Freq:59.98Hz Lamp Flux:6260.95x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:50w 4000k	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	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		

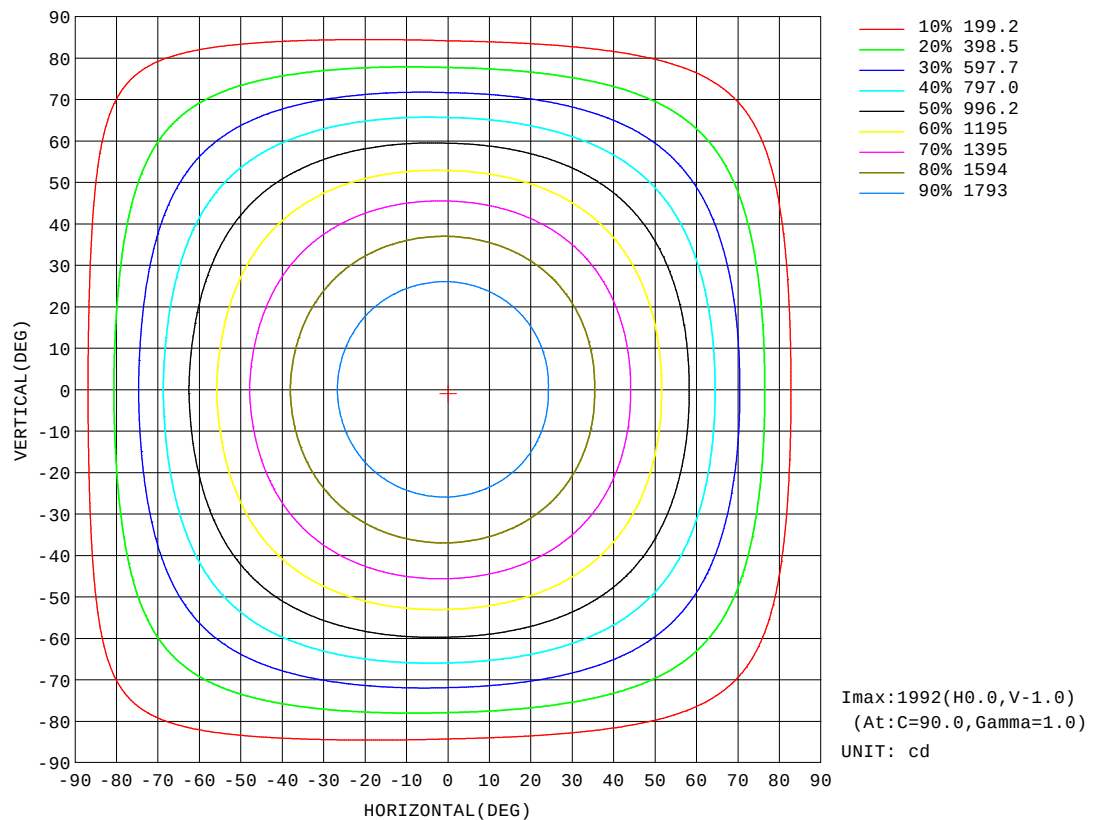
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

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:120.22V I:0.3899A P:46.665W PF:0.9956 Freq:59.98Hz Lamp Flux:6260.95x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:50w 4000k	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

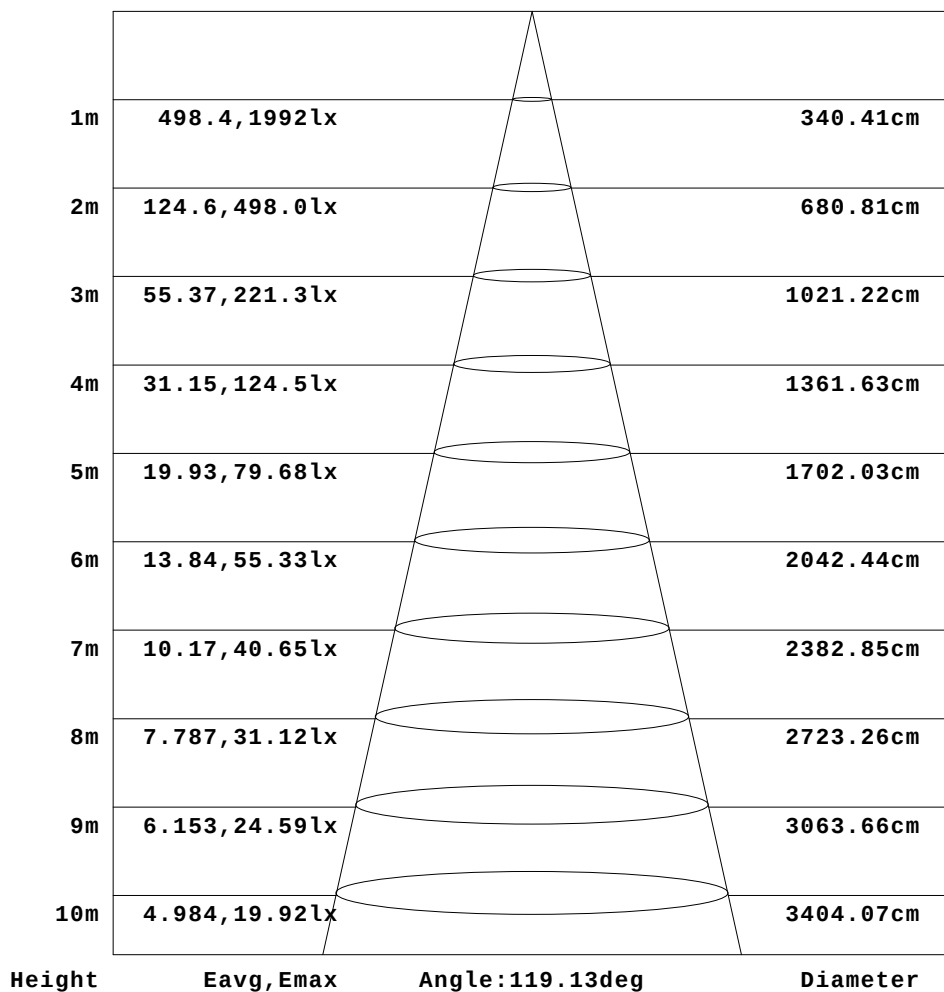
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.22V I:0.3899A P:46.665W PF:0.9956 Freq:59.98Hz Lamp Flux:6260.95x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:50w 4000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:4697 lm



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

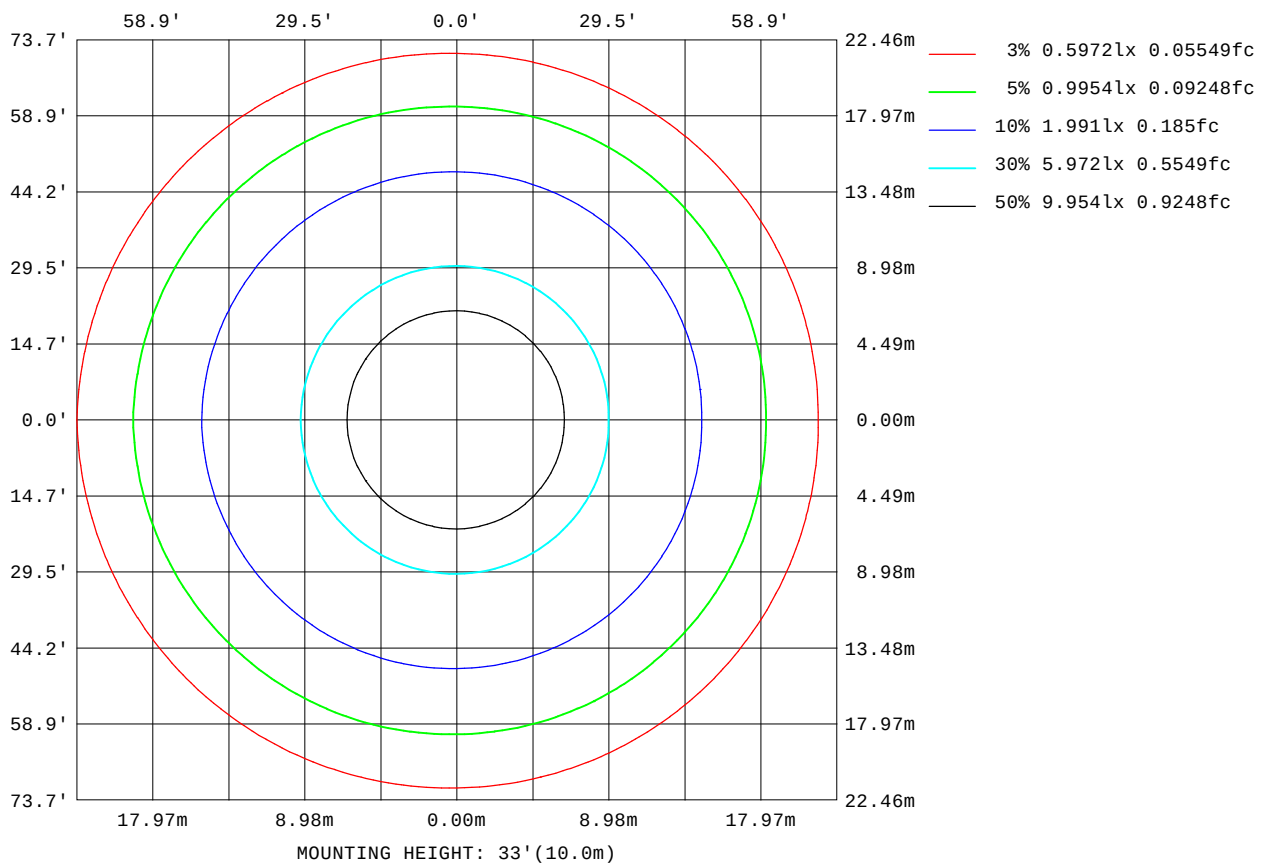
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

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:120.22V I:0.3899A P:46.665W PF:0.9956 Freq:59.98Hz Lamp Flux:6260.95x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:50w 4000k	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:120.22V I:0.3899A P:46.665W PF:0.9956 Freq:59.98Hz Lamp Flux:6260.95x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:50w 4000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

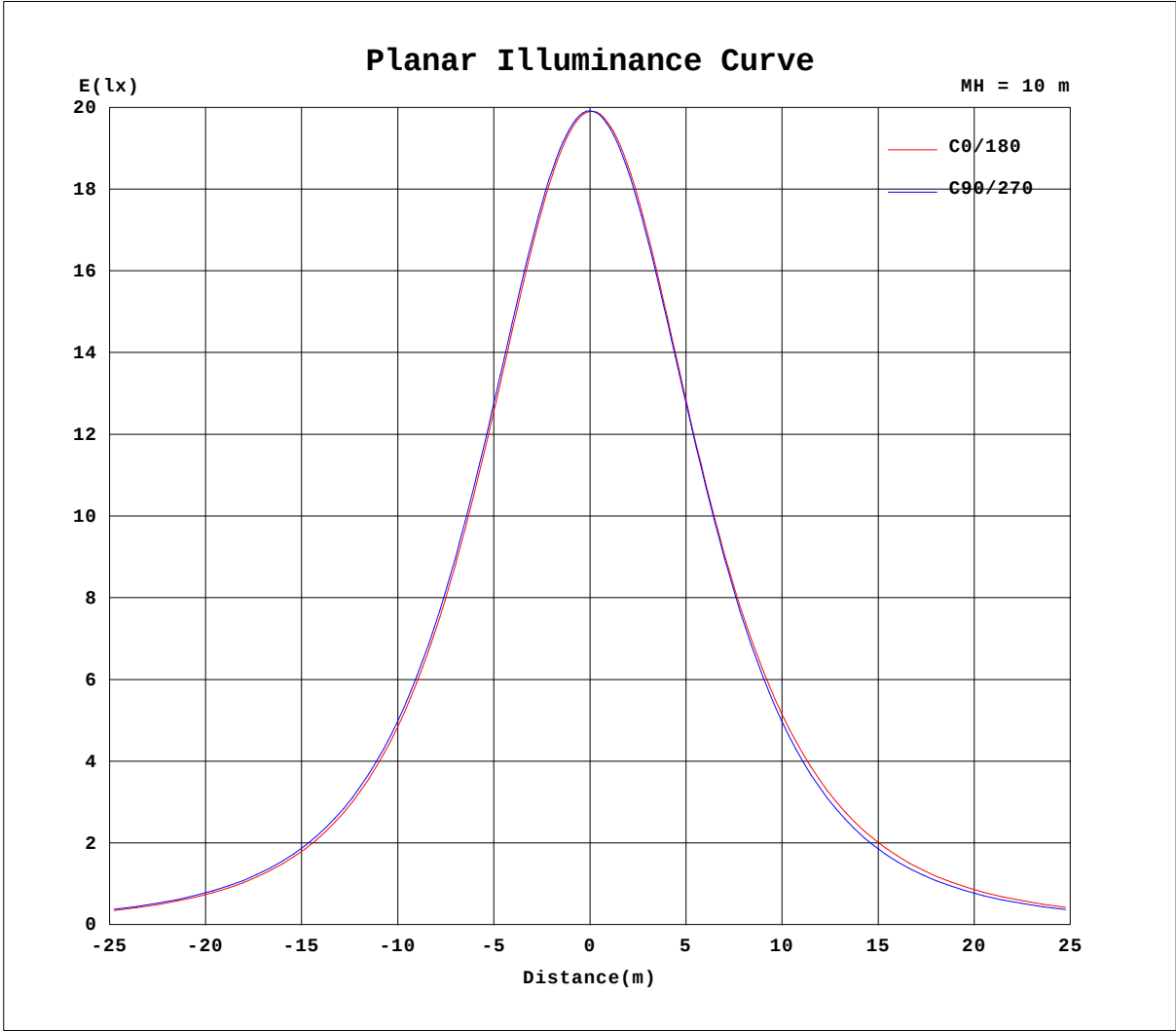
AvgL	cd/m2
L_0~180(65)av	20084
L_0~180(75)av	19958
L_0~180(85)av	22378
L_90~270(65)av	19459
L_90~270(75)av	18926
L_90~270(85)av	20244
L_45(65)av	19796
L_45(75)av	19483
L_45(85)av	21486

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:

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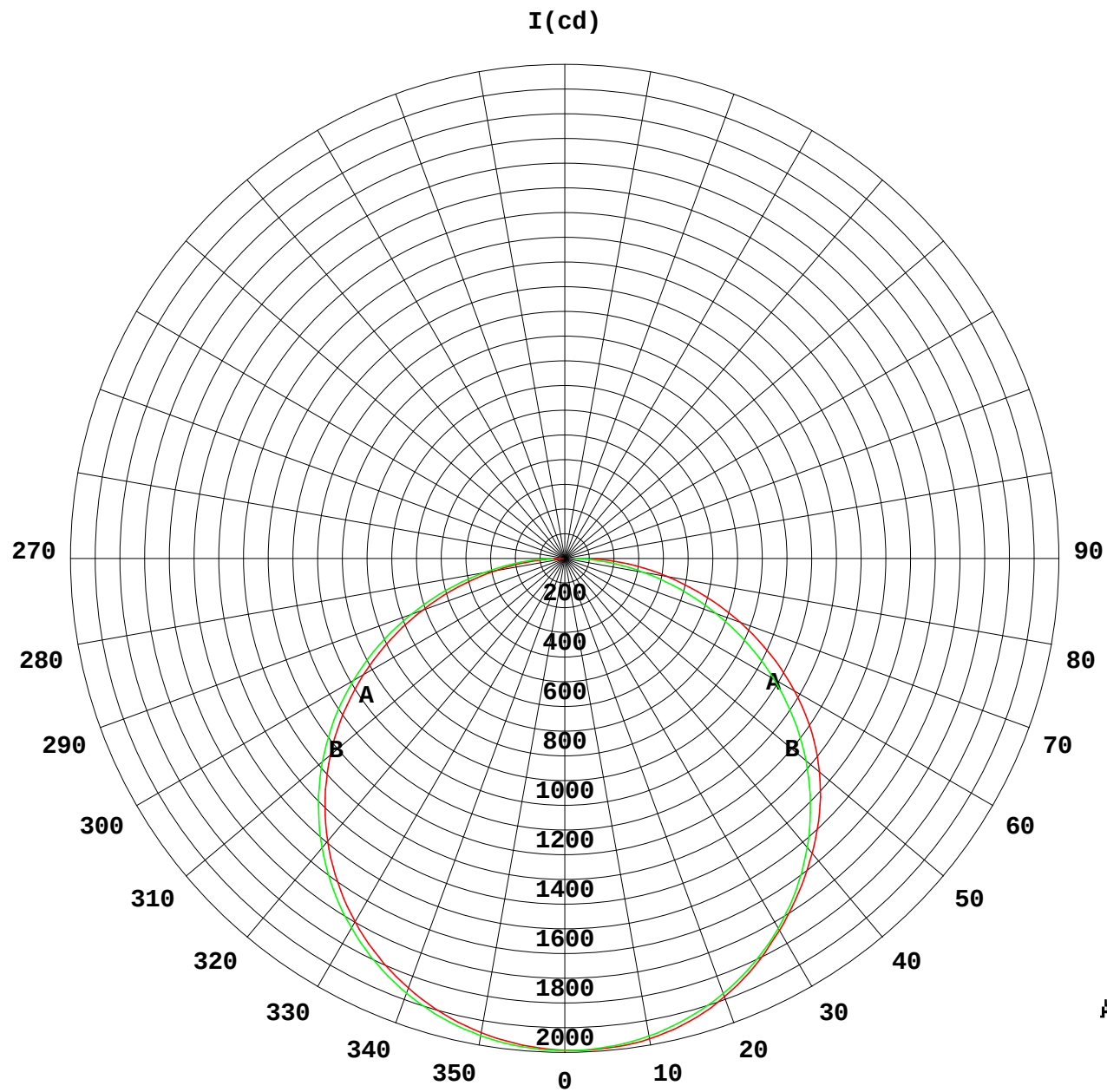
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	1991	1992	1991	1992
3.0	1984	1990	1992	1990
6.0	1972	1981	1988	1982
9.0	1956	1968	1980	1969
12.0	1933	1949	1963	1950
15.0	1907	1924	1941	1926
18.0	1875	1896	1913	1897
21.0	1838	1861	1876	1863
24.0	1797	1821	1835	1823
27.0	1750	1776	1788	1778
30.0	1698	1727	1739	1729
33.0	1642	1673	1686	1673
36.0	1582	1614	1633	1613
39.0	1516	1551	1576	1548
42.0	1446	1483	1519	1480
45.0	1372	1411	1458	1406
48.0	1293	1334	1392	1328
51.0	1211	1253	1321	1247
54.0	1124	1168	1245	1161
57.0	1034	1080	1162	1070
60.0	940.7	988.4	1074	977.6
63.0	844.5	893.2	981.1	881.5
66.0	745.1	795.3	885.3	784.0
69.0	646.5	696.1	787.8	684.7
72.0	545.9	595.0	688.2	584.5
75.0	446.3	494.6	586.9	485.1
78.0	348.7	396.6	486.7	387.7
81.0	253.9	299.0	386.8	292.8
84.0	163.2	207.7	288.3	202.5
87.0	78.61	123.9	195.5	118.1
90.0	6.936	48.26	106.0	43.05

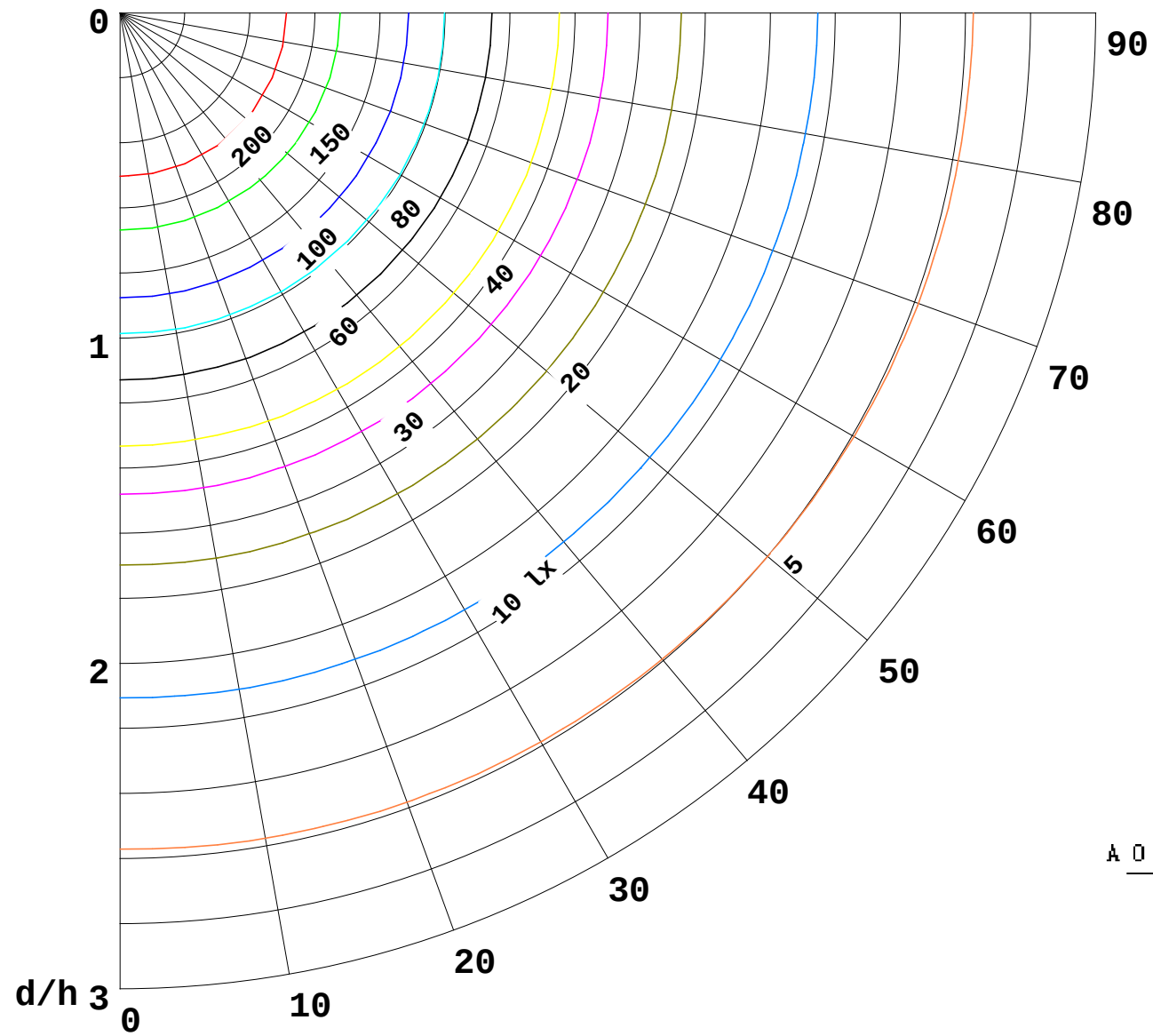
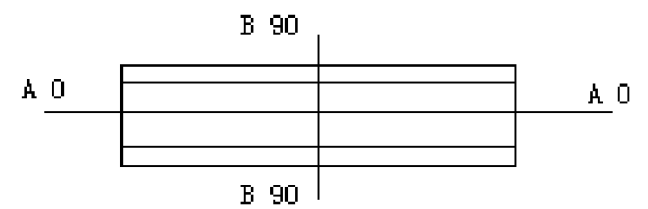
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 贏
Test Date: 2024-03-30

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

