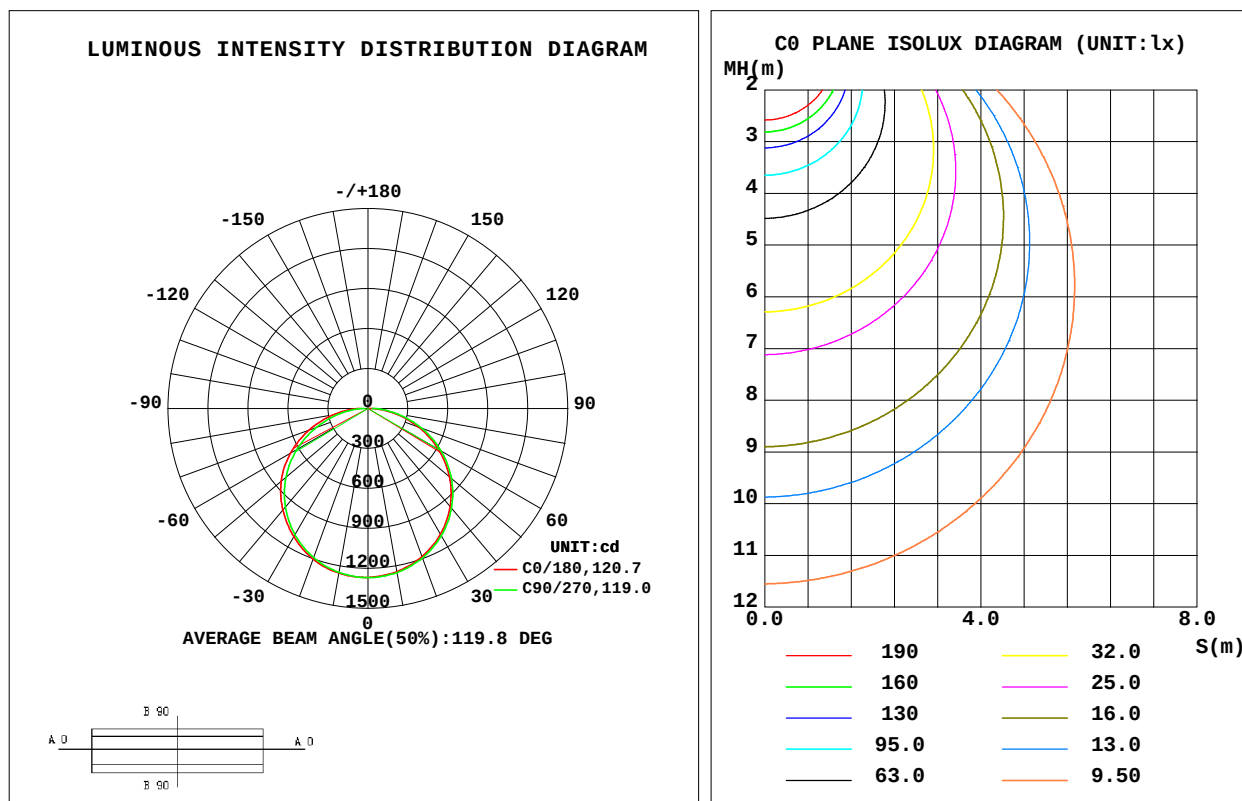


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.24V I:0.2376A P:28.137W PF:0.9848 Freq:59.98Hz Lamp Flux:3984.62x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 4000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 141.61 lm/W			
MODEL		I _{max} (cd)	1269	S/MH(C0/180)	1.31
NOMINAL POWER(W)	30w	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	120-277v	TOTAL FLUX(lm)	3984.6	h UP, DN(C0-180)	0.0,49.2
NOMINAL FLUX(lm)	3984.62	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,50.8
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	1250	1255	1250					0- 10	120.2	120.2	3.02, 3.02
20	1184	1194	1203	1192					10- 20	346.2	466.4	11.7, 11.7
30	1088	1102	1112	1095					20- 30	530.5	996.9	25, 25
40	959.7	975.5	994.2	965.0					30- 40	651.2	1648	41.4, 41.4
50	799.5	818.2	850.4	805.0					40- 50	694.0	2342	58.8, 58.8
60	609.5	632.5	671.5	616.5					50- 60	651.0	2993	75.1, 75.1
70	400.0	424.6	468.3	409.2					60- 70	524.9	3518	88.3, 88.3
80	189.5	212.5	255.0	201.6					70- 80	337.2	3855	96.8, 96.8
90	8.428	31.47	59.25	23.82					80- 90	129.4	3985	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		

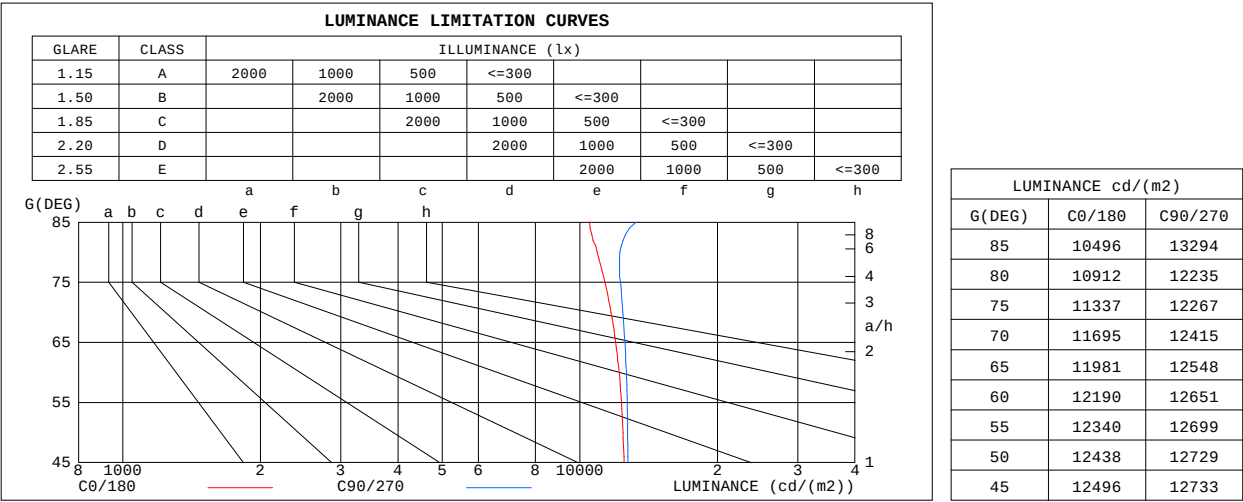
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

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:0.2376A P:28.137W PF:0.9848 Freq:59.98Hz Lamp Flux:3984.62x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 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

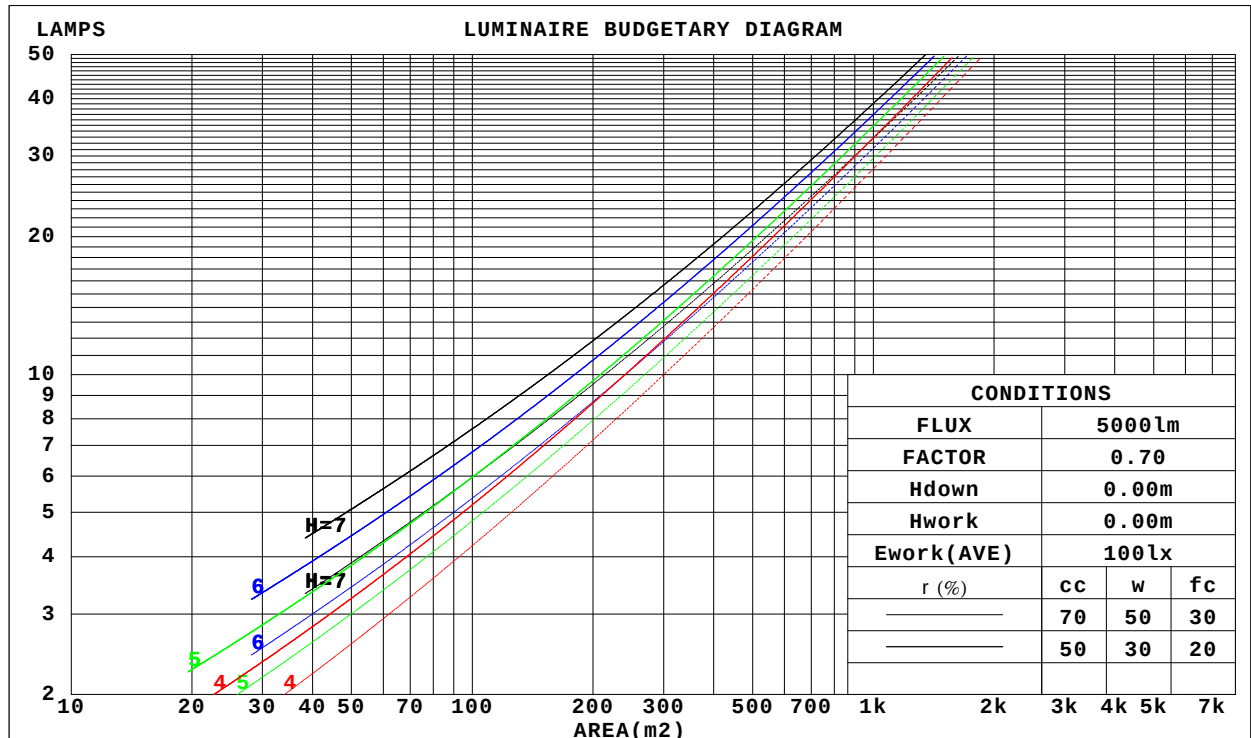
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.24V I:0.2376A P:28.137W PF:0.9848 Freq:59.98Hz Lamp Flux:3984.62x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 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	.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:120.24V I:0.2376A P:28.137W PF:0.9848 Freq:59.98Hz Lamp Flux:3984.62x1 lm					
NAME:			TYPE:		WEIGHT:
SPEC.:30w 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 Wall Exitance Coefficients(WEC)															
0.0																
1.0	.335	.190	.060	.327	.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	.258	.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	.031	.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
R C R	R C R:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(C C E C)															
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:120.24V I:0.2376A P:28.137W PF:0.9848 Freq:59.98Hz Lamp Flux:3984.62x1 lm										
NAME:					TYPE:			WEIGHT:		
SPEC.:30w 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	21.6	23.2	21.9	23.4	23.6	21.7	23.3	22.0	23.5	23.7
	23.3	24.7	23.6	25.0	25.2	23.5	24.9	23.8	25.1	25.4
	24.0	25.4	24.3	25.6	25.9	24.2	25.6	24.5	25.9	26.1
	24.5	25.8	24.9	26.1	26.4	24.8	26.1	25.2	26.4	26.7
	24.7	26.0	25.1	26.3	26.6	25.1	26.4	25.4	26.6	26.9
	24.9	26.1	25.2	26.4	26.7	25.3	26.5	25.6	26.8	27.1
4H	22.3	23.7	22.6	23.9	24.2	22.4	23.8	22.7	24.0	24.3
	24.1	25.4	24.5	25.7	26.0	24.3	25.5	24.7	25.8	26.1
	25.0	26.1	25.4	26.4	26.8	25.2	26.3	25.6	26.6	27.0
	25.7	26.7	26.1	27.0	27.4	26.0	27.0	26.4	27.3	27.7
	25.9	26.9	26.4	27.3	27.6	26.3	27.2	26.7	27.6	28.0
	26.1	27.0	26.6	27.4	27.8	26.6	27.4	27.0	27.8	28.2
8H	25.3	26.3	25.7	26.6	27.0	25.5	26.4	25.9	26.8	27.2
	26.2	27.0	26.7	27.4	27.8	26.5	27.2	26.9	27.7	28.1
	26.6	27.3	27.0	27.7	28.2	26.9	27.6	27.4	28.0	28.5
	26.9	27.5	27.4	27.9	28.4	27.3	27.9	27.8	28.3	28.8
12H	25.4	26.2	25.8	26.6	27.0	25.5	26.4	26.0	26.8	27.2
	26.3	27.0	26.8	27.4	27.9	26.6	27.2	27.0	27.7	28.1
	26.7	27.3	27.2	27.8	28.3	27.0	27.6	27.5	28.1	28.6
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, 3985 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: 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:0.2376A P:28.137W PF:0.9848 Freq:59.98Hz Lamp Flux:3984.62x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 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	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		

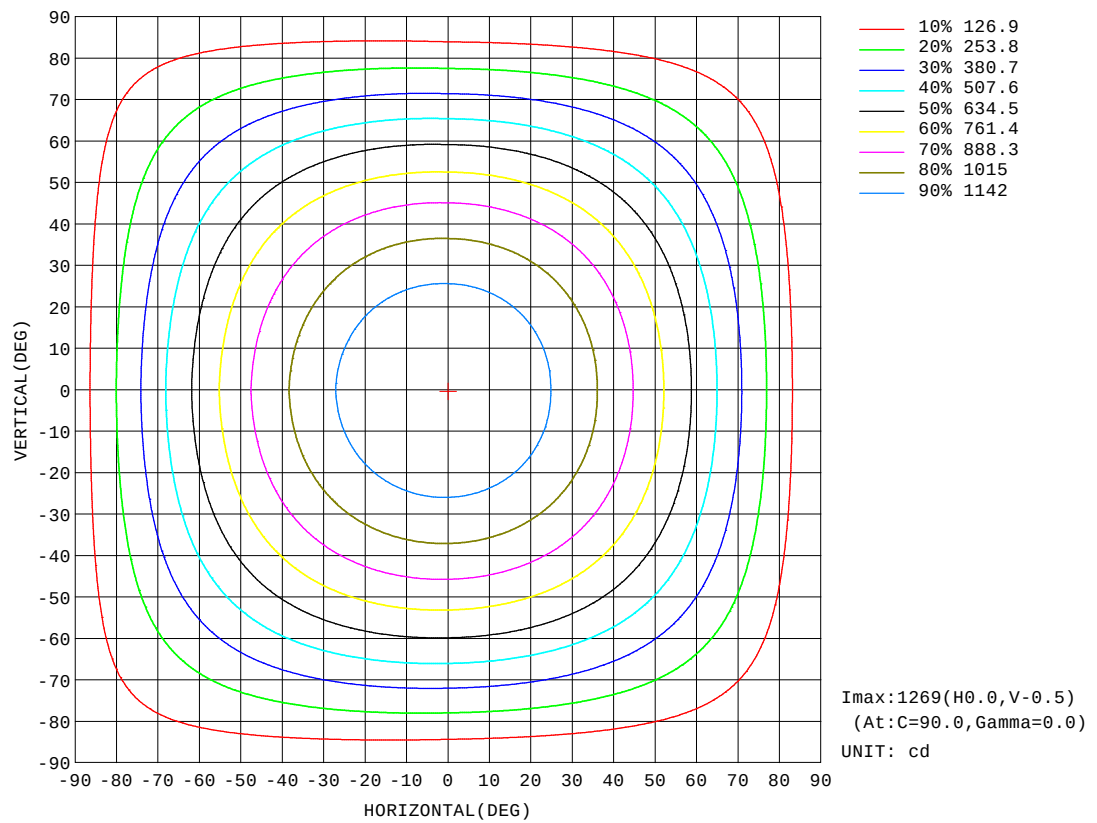
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

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:120.24V I:0.2376A P:28.137W PF:0.9848 Freq:59.98Hz Lamp Flux:3984.62x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 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

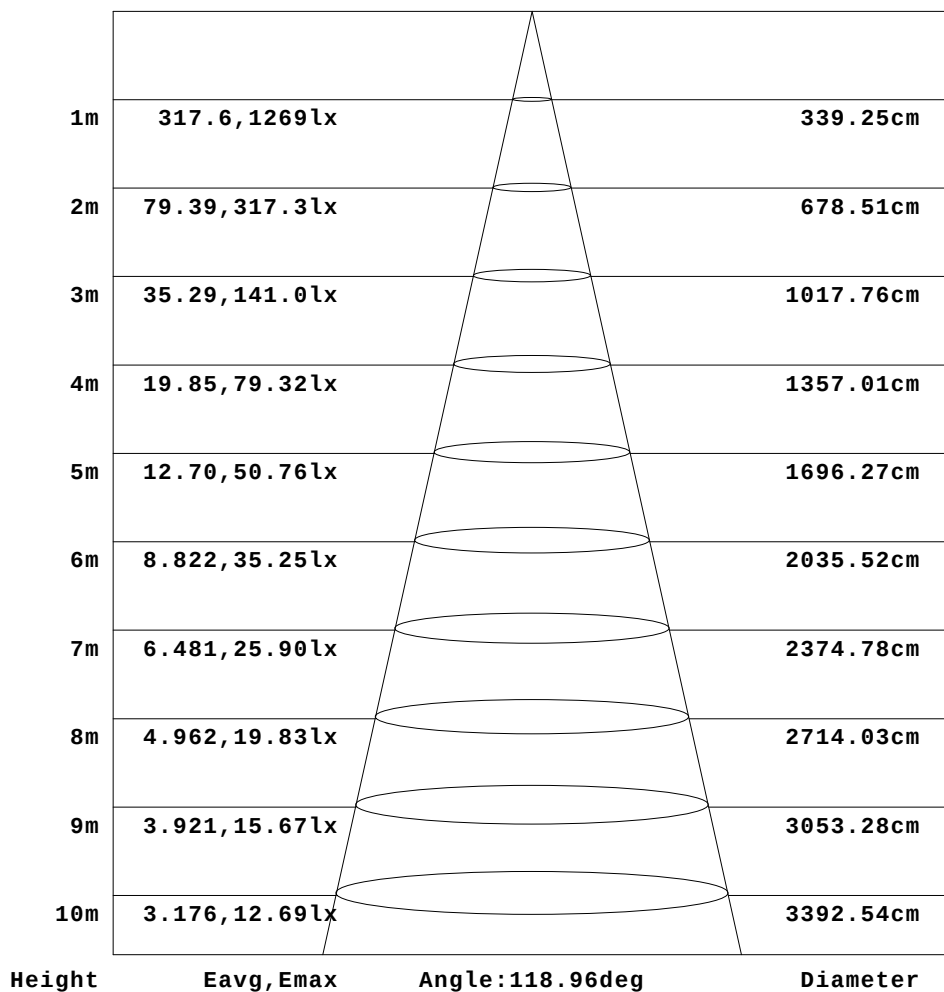
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.24V I:0.2376A P:28.137W PF:0.9848 Freq:59.98Hz Lamp Flux:3984.62x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 4000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:2993 lm



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

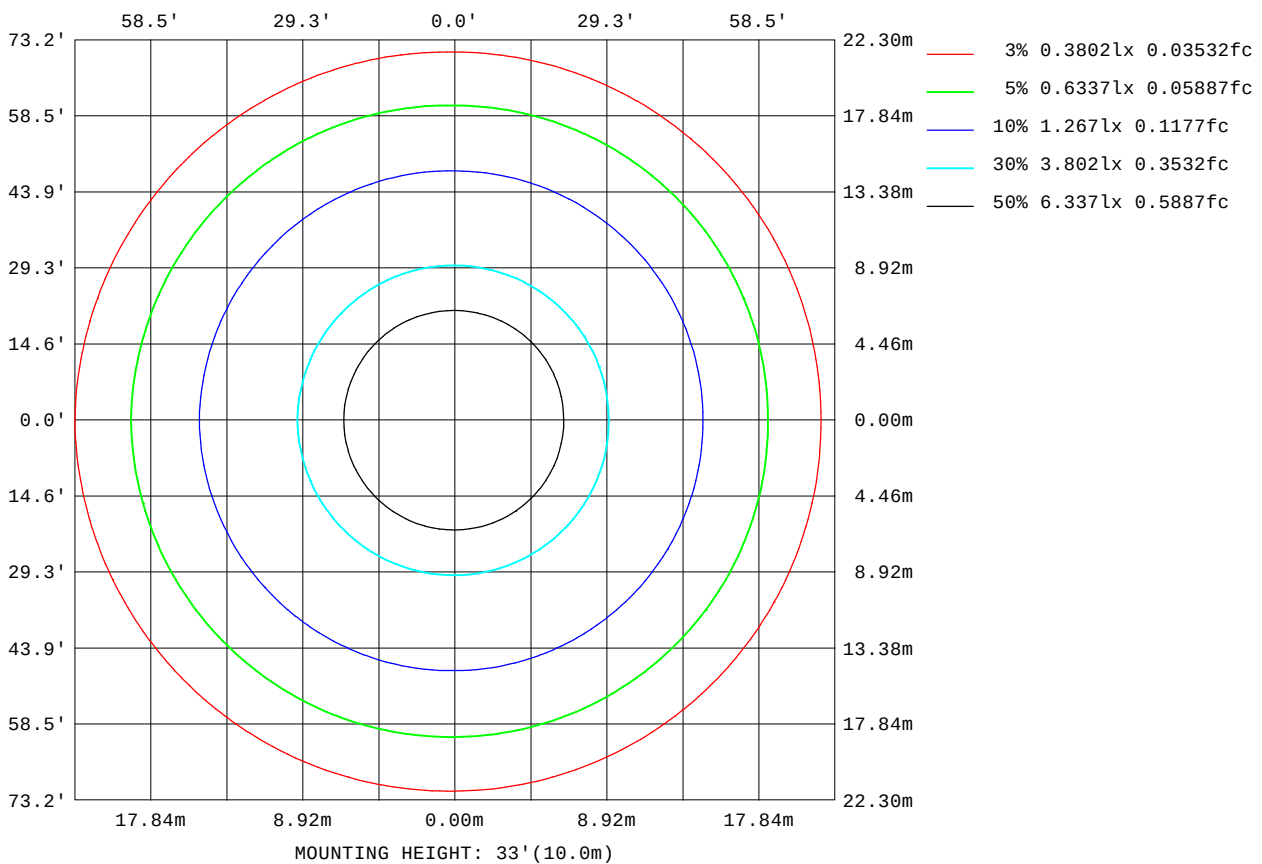
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

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:120.24V I:0.2376A P:28.137W PF:0.9848 Freq:59.98Hz Lamp Flux:3984.62x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 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:120.24V I:0.2376A P:28.137W PF:0.9848 Freq:59.98Hz Lamp Flux:3984.62x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:30w 4000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

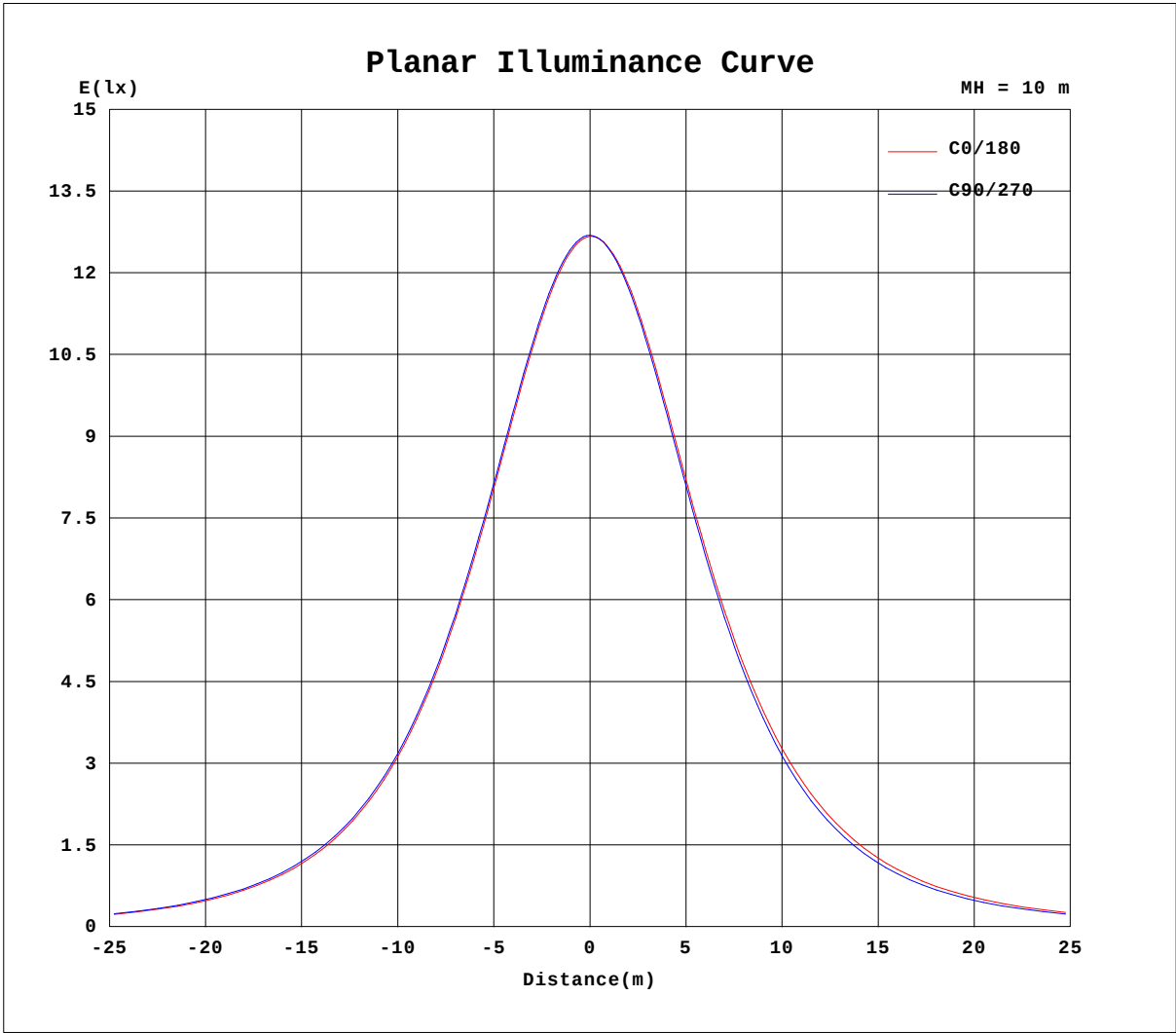
AvgL	cd/m2
L_0~180(65)av	12762
L_0~180(75)av	12661
L_0~180(85)av	14063
L_90~270(65)av	12357
L_90~270(75)av	12006
L_90~270(85)av	12731
L_45(65)av	12558
L_45(75)av	12334
L_45(85)av	13453

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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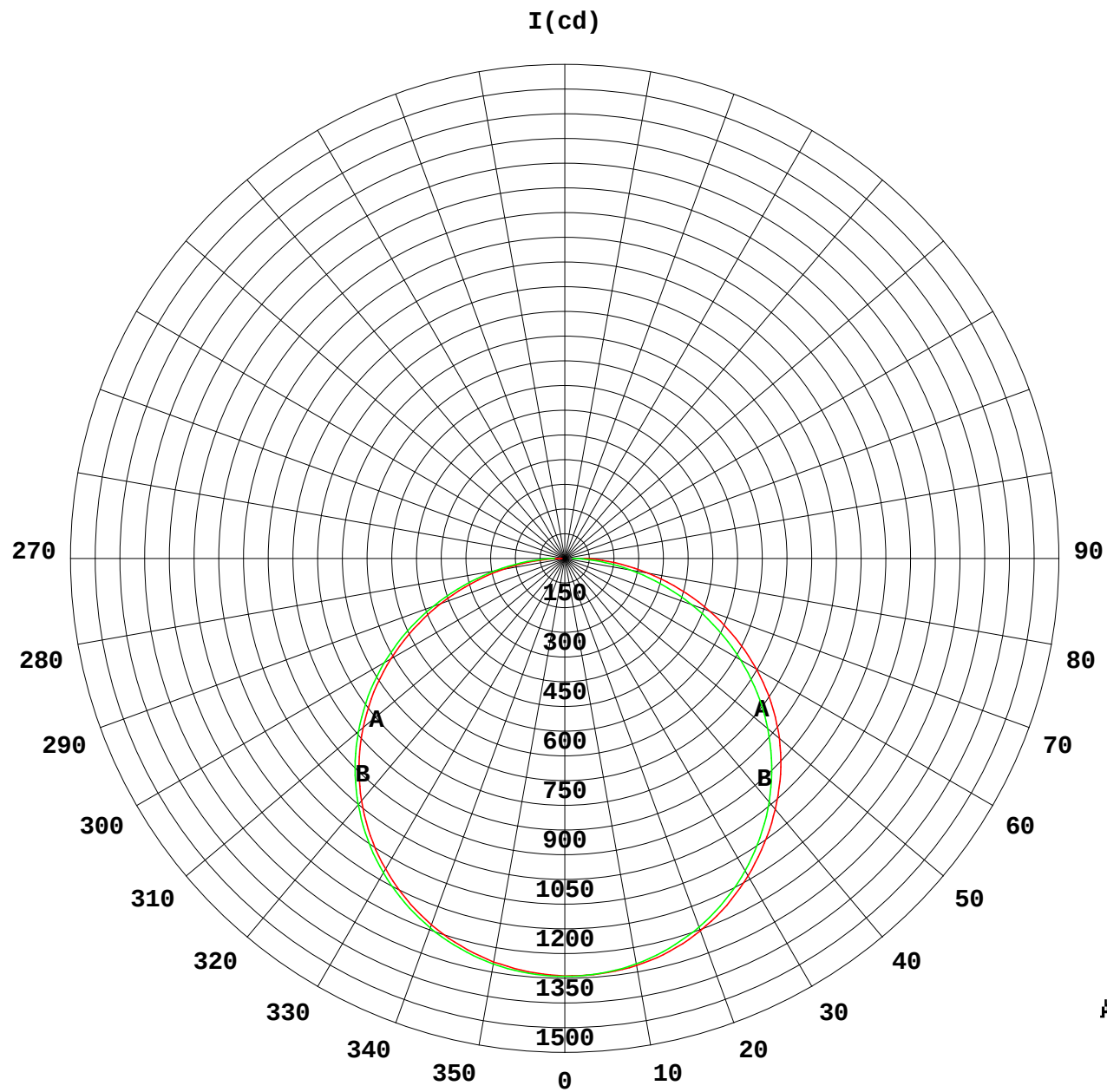
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	1267	1269	1267	1269
3.0	1264	1267	1267	1267
6.0	1257	1262	1264	1262
9.0	1247	1254	1258	1253
12.0	1234	1242	1248	1241
15.0	1218	1227	1234	1225
18.0	1198	1208	1217	1206
21.0	1175	1186	1195	1183
24.0	1150	1161	1171	1157
27.0	1121	1133	1143	1128
30.0	1088	1102	1112	1095
33.0	1054	1068	1080	1060
36.0	1016	1031	1044	1021
39.0	974.2	989.6	1007	979.4
42.0	930.4	946.8	967.7	935.3
45.0	883.6	900.4	926.1	888.6
48.0	833.5	851.9	881.1	838.9
51.0	781.2	800.8	834.2	787.1
54.0	726.5	746.6	783.2	732.9
57.0	668.8	690.5	728.1	674.9
60.0	609.5	632.5	671.5	616.5
63.0	548.3	571.5	612.5	555.2
66.0	485.0	509.3	551.4	493.2
69.0	421.9	446.5	489.5	430.6
72.0	357.3	381.9	426.2	367.0
75.0	293.4	317.5	361.9	304.0
78.0	230.5	254.0	297.4	242.3
81.0	169.6	192.7	234.4	182.3
84.0	110.2	134.2	173.6	124.3
87.0	55.89	80.54	115.3	71.32
90.0	8.428	31.47	59.25	23.82

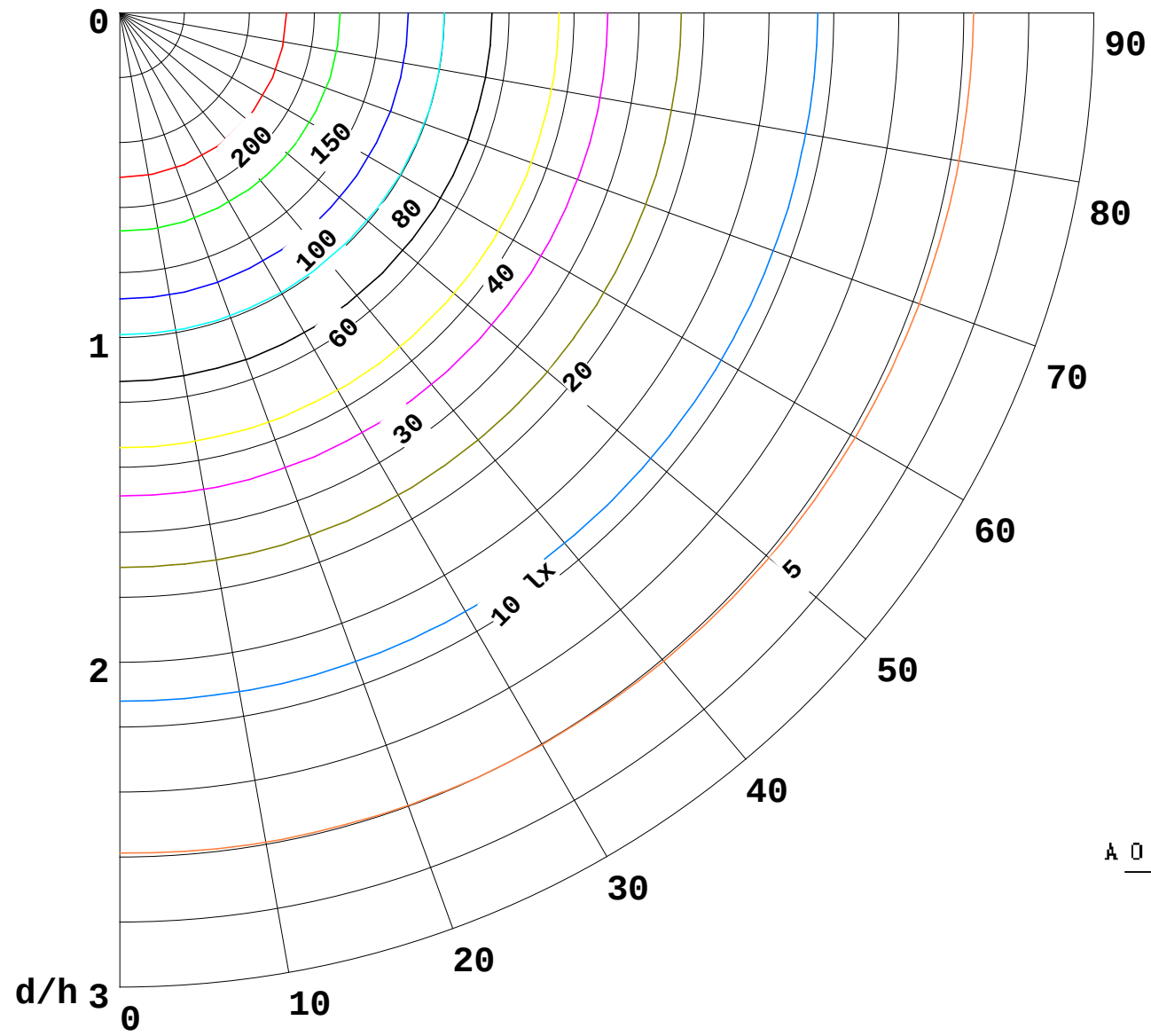
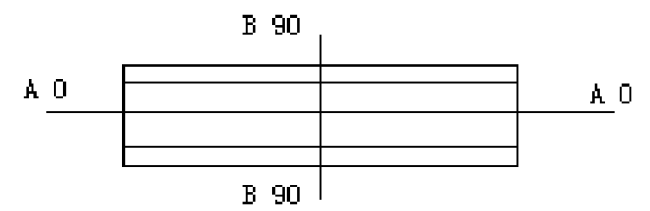
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 贏
Test Date: 2024-03-30

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

