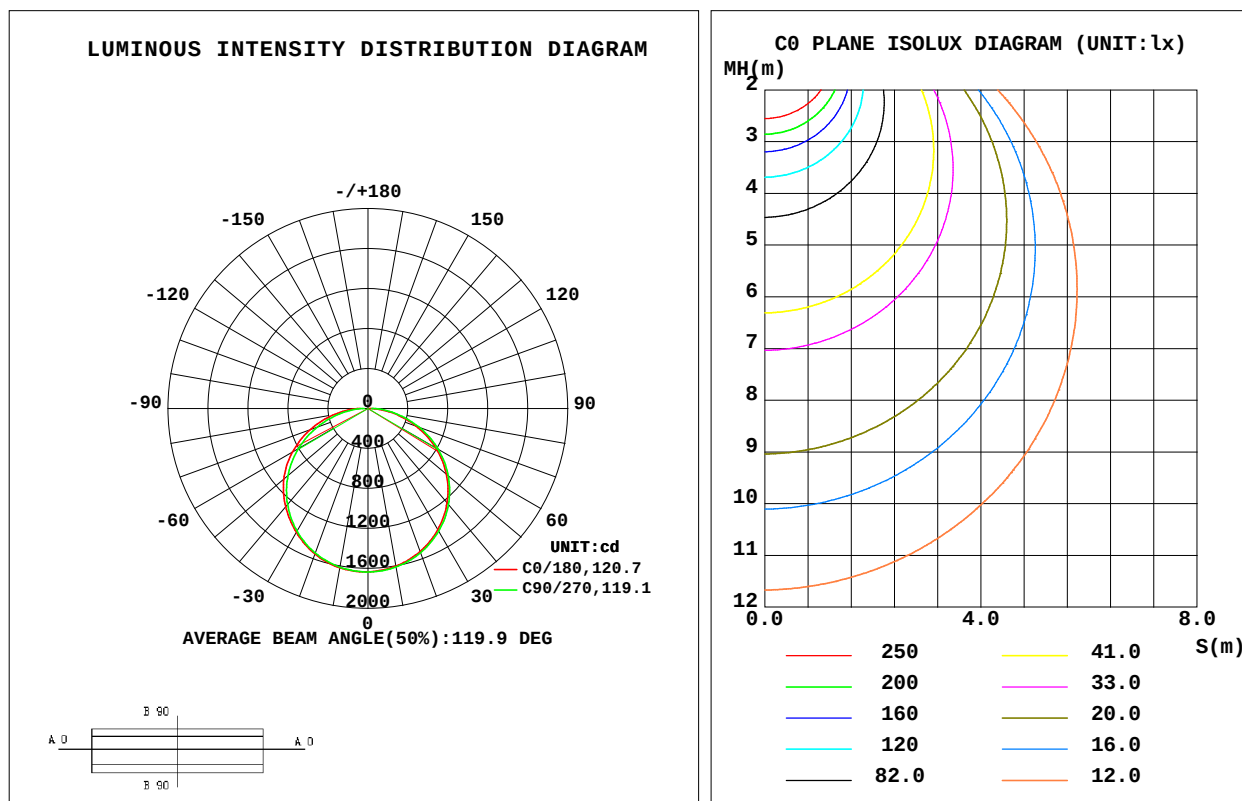


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.23V I:0.3136A P:37.418W PF:0.9925 Freq:59.98Hz Lamp Flux:5141.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 5700k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.39 lm/W			
MODEL		I _{max} (cd)	1636	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)	5141.0	h UP, DN(C0-180)	0.0,48.9
NOMINAL FLUX(lm)	5141.03	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,51.1
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	1602	1611	1618	1613					0- 10	154.9	154.9	3.01, 3.01
20	1524	1537	1551	1540					10- 20	446.3	601.2	11.7, 11.7
30	1399	1417	1433	1418					20- 30	683.8	1285	25, 25
40	1233	1253	1282	1253					30- 40	839.3	2124	41.3, 41.3
50	1025	1050	1100	1047					40- 50	894.9	3019	58.7, 58.7
60	779.2	809.6	872.5	803.9					50- 60	840.1	3859	75.1, 75.1
70	509.2	542.0	611.4	535.9					60- 70	677.7	4537	88.3, 88.3
80	238.7	269.3	337.8	266.8					70- 80	435.9	4973	96.7, 96.7
90	7.695	38.19	82.60	35.84					80- 90	168.1	5141	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		

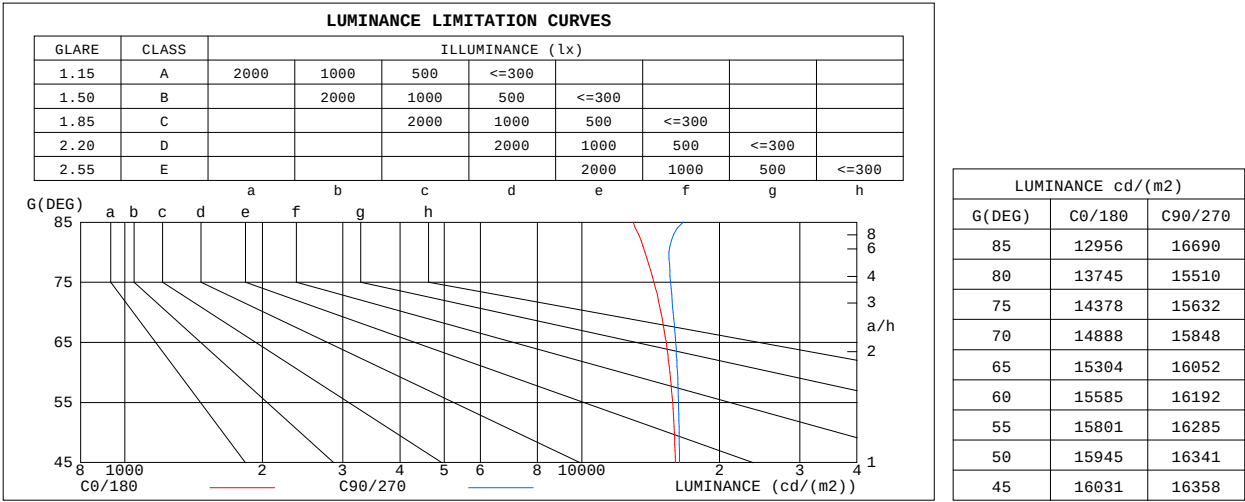
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

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:120.23V I:0.3136A P:37.418W PF:0.9925 Freq:59.98Hz Lamp Flux:5141.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 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

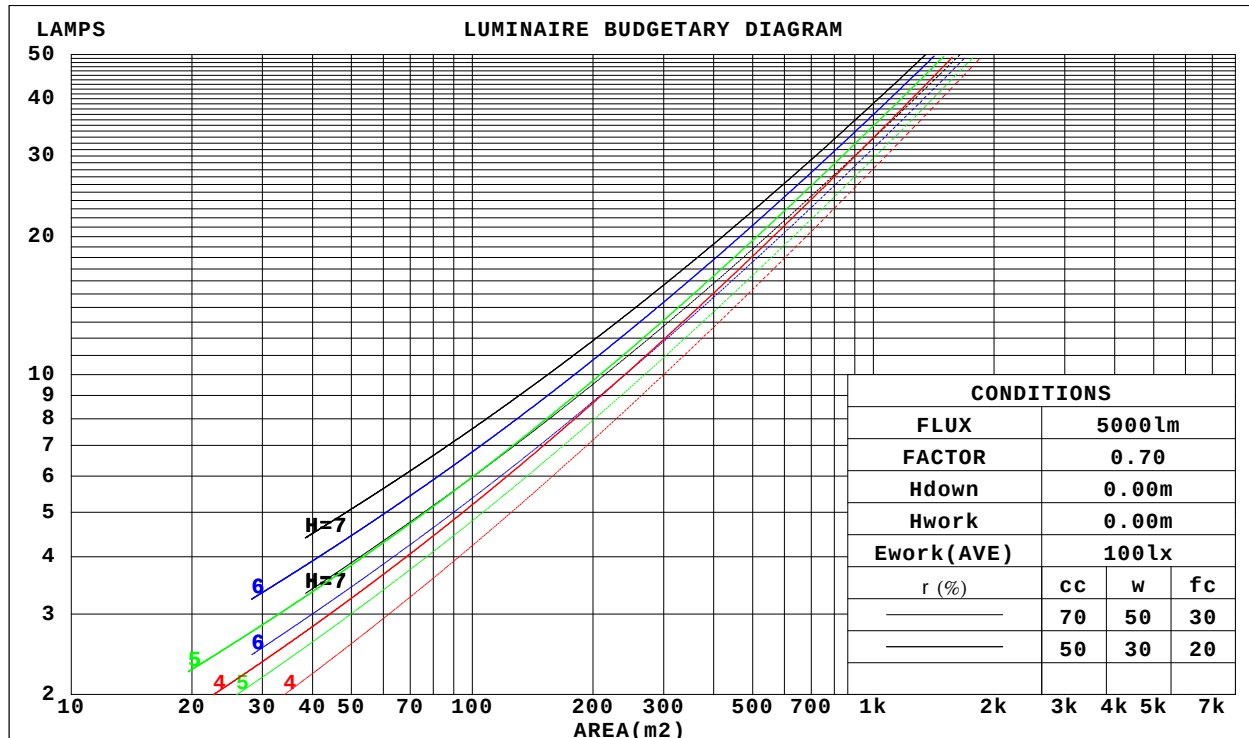
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.23V I:0.3136A P:37.418W PF:0.9925 Freq:59.98Hz Lamp Flux:5141.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 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	.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	.51	.45	.60	.51	.44	.58	.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	.41	.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:120.23V I:0.3136A P:37.418W PF:0.9925 Freq:59.98Hz Lamp Flux:5141.03x1 lm					
NAME:			TYPE:		WEIGHT:
SPEC.:40w 5700k			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	.190	.060	.328	.187	.059	.314	.180	.058	.302	.174	.056	.291	.169	.054	
2.0	.309	.169	.052	.302	.167	.051	.290	.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	.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:120.23V I:0.3136A P:37.418W PF:0.9925 Freq:59.98Hz Lamp Flux:5141.03x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:40w 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	22.4	24.0	22.7	24.2	24.4	22.6	24.1	22.8	24.3	24.5	
	3H	24.1	25.5	24.4	25.8	26.0	24.3	25.7	24.6	26.0	26.2
	4H	24.8	26.2	25.1	26.4	26.7	25.0	26.4	25.4	26.7	26.9
	6H	25.3	26.6	25.7	26.9	27.2	25.7	27.0	26.0	27.2	27.5
	8H	25.5	26.8	25.9	27.1	27.4	25.9	27.2	26.2	27.4	27.7
	12H	25.7	26.9	26.0	27.2	27.5	26.1	27.3	26.4	27.6	27.9
4H	2H	23.1	24.5	23.4	24.7	25.0	23.2	24.6	23.5	24.8	25.1
	3H	24.9	26.2	25.3	26.5	26.8	25.1	26.3	25.5	26.6	26.9
	4H	25.8	26.9	26.2	27.2	27.6	26.0	27.1	26.4	27.5	27.8
	6H	26.5	27.5	26.9	27.8	28.2	26.8	27.8	27.2	28.1	28.5
	8H	26.7	27.7	27.1	28.0	28.4	27.1	28.0	27.5	28.4	28.8
	12H	26.9	27.8	27.4	28.2	28.6	27.3	28.2	27.8	28.6	29.0
8H	4H	26.1	27.1	26.5	27.4	27.8	26.3	27.3	26.7	27.6	28.0
	6H	27.0	27.8	27.4	28.2	28.6	27.3	28.0	27.7	28.5	28.9
	8H	27.4	28.1	27.8	28.5	28.9	27.7	28.4	28.1	28.8	29.3
	12H	27.7	28.3	28.1	28.7	29.2	28.1	28.7	28.5	29.1	29.6
12H	4H	26.2	27.0	26.6	27.4	27.8	26.3	27.2	26.8	27.6	28.0
	6H	27.1	27.8	27.6	28.2	28.7	27.3	28.0	27.8	28.5	28.9
	8H	27.5	28.1	28.0	28.6	29.0	27.8	28.4	28.3	28.9	29.4
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, 5141 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 5.7$)

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:120.23V I:0.3136A P:37.418W PF:0.9925 Freq:59.98Hz Lamp Flux:5141.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 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	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	93	88	99	92	87	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		

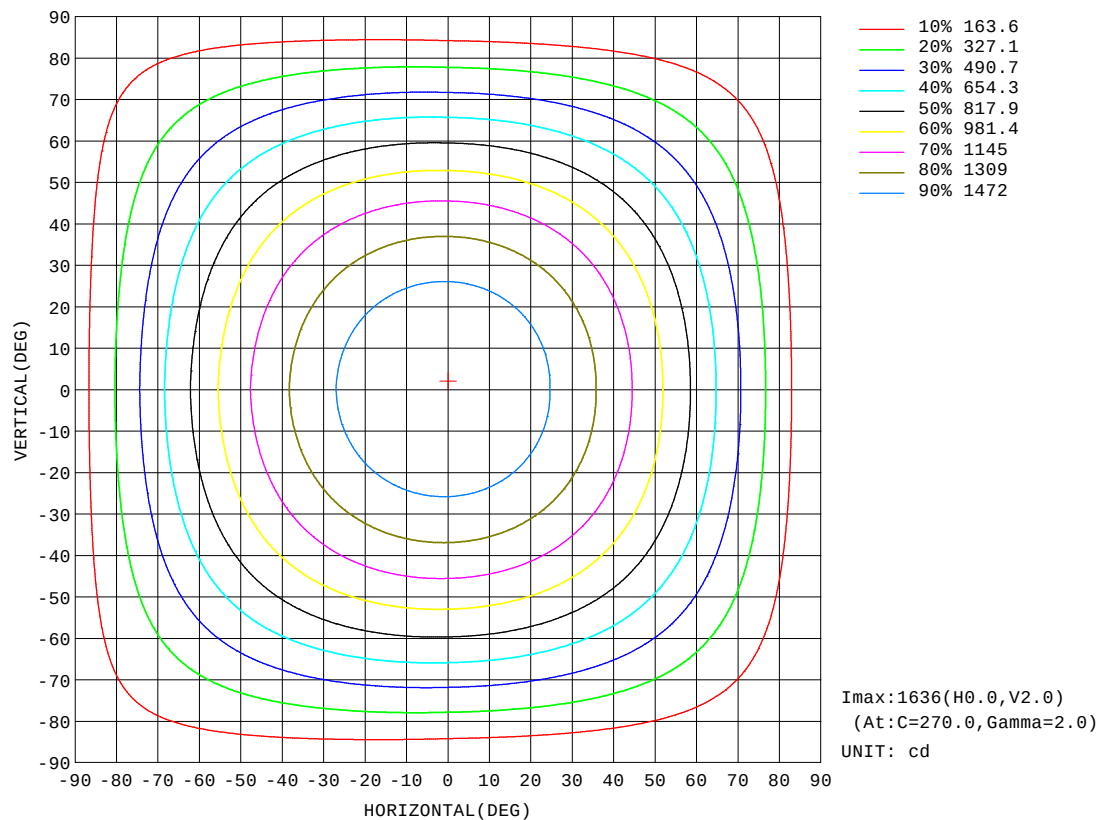
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

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:120.23V I:0.3136A P:37.418W PF:0.9925 Freq:59.98Hz Lamp Flux:5141.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 5700k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



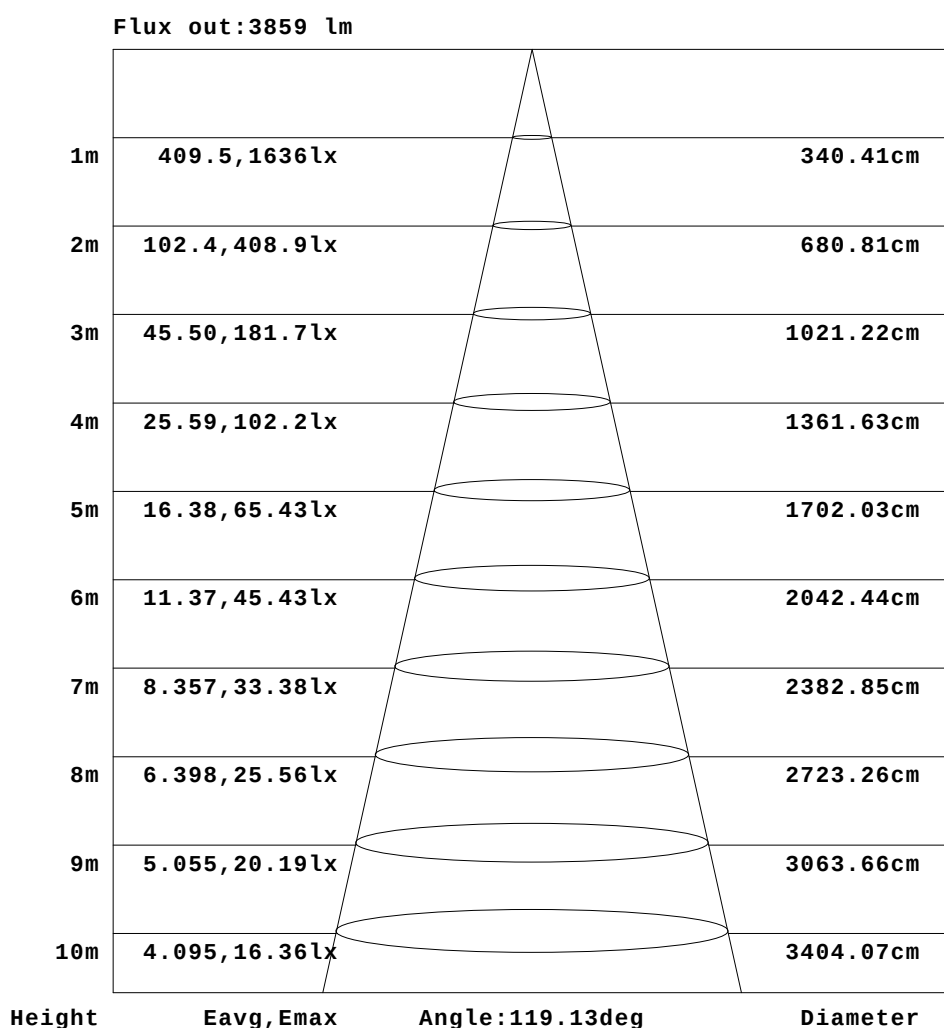
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 贏
Test Date:2024-03-30

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:120.23V I:0.3136A P:37.418W PF:0.9925 Freq:59.98Hz Lamp Flux:5141.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 5700k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



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

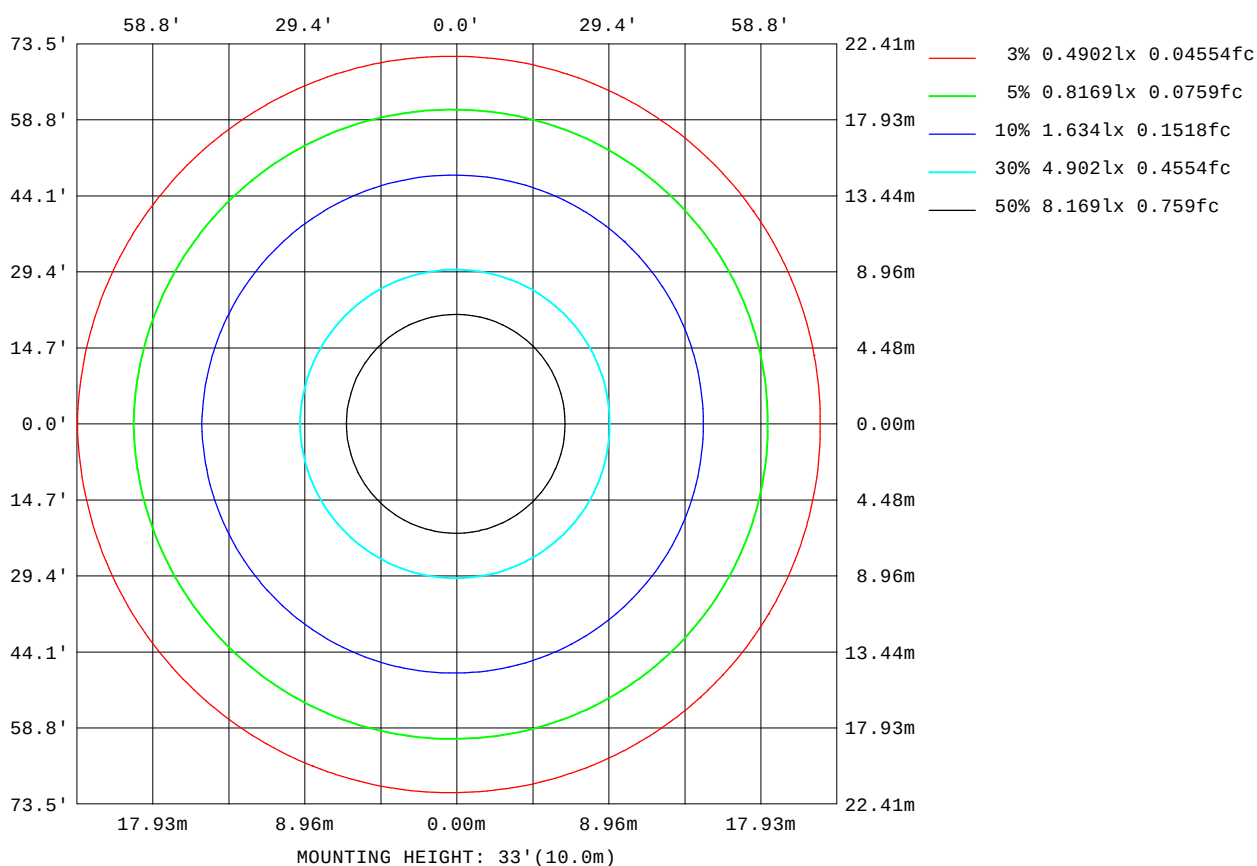
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

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:120.23V I:0.3136A P:37.418W PF:0.9925 Freq:59.98Hz Lamp Flux:5141.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 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:120.23V I:0.3136A P:37.418W PF:0.9925 Freq:59.98Hz Lamp Flux:5141.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 5700k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

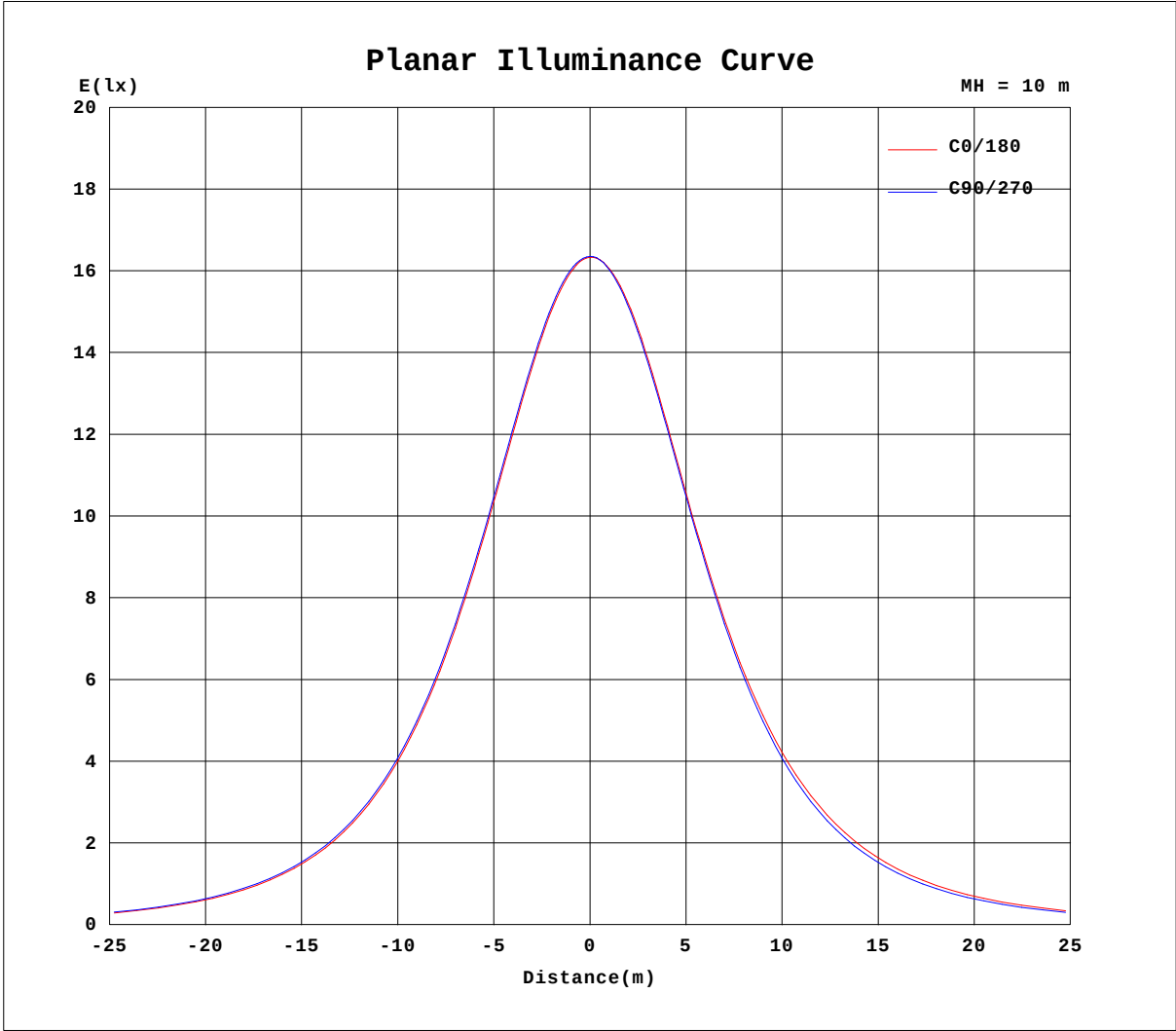
AvgL	cd/m2
L_0~180(65)av	16467
L_0~180(75)av	16347
L_0~180(85)av	18244
L_90~270(65)av	15970
L_90~270(75)av	15531
L_90~270(85)av	16527
L_45(65)av	16229
L_45(75)av	15960
L_45(85)av	17502

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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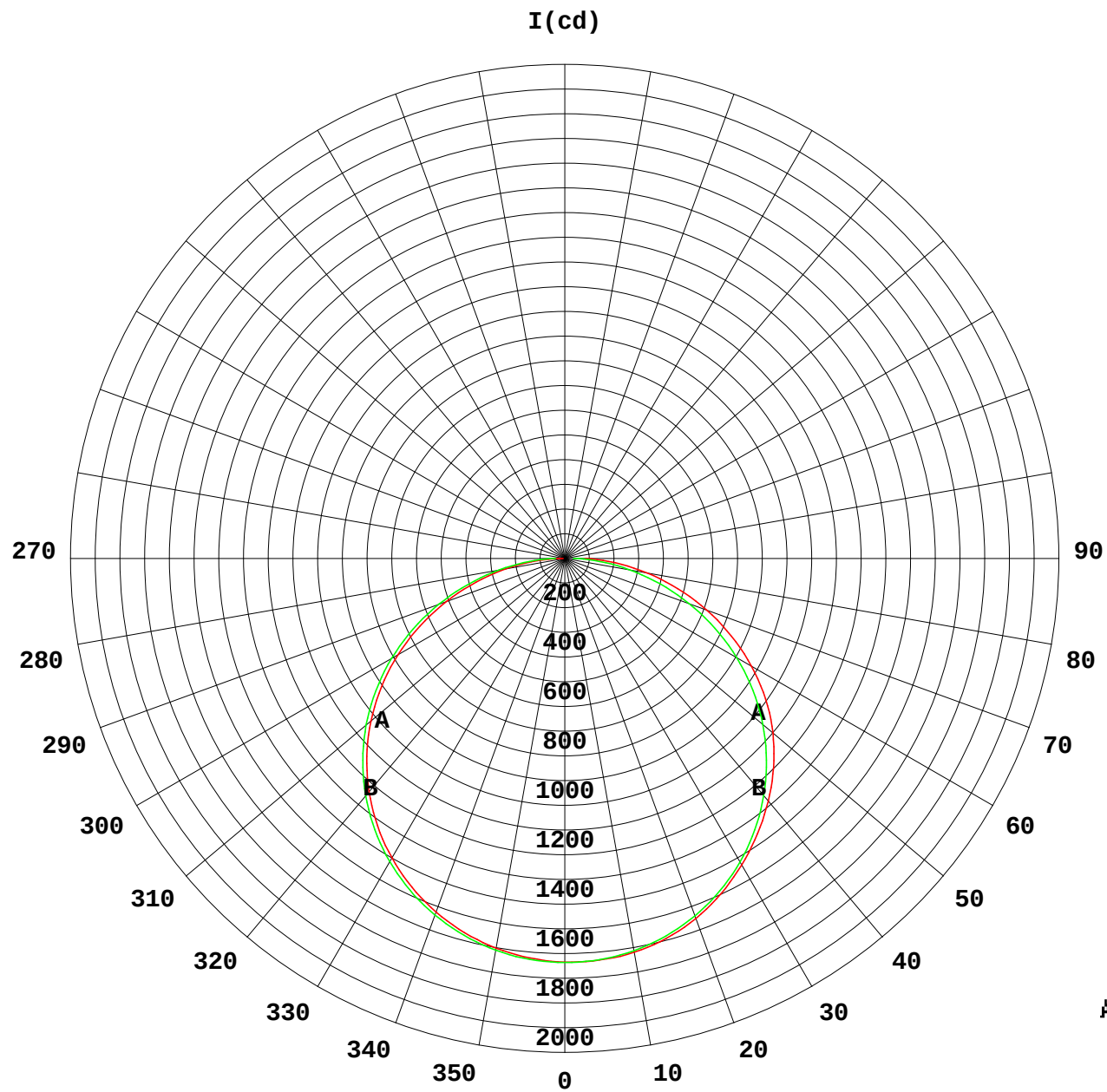
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	1634	1636	1634	1636
3.0	1629	1633	1634	1633
6.0	1620	1626	1630	1628
9.0	1607	1615	1623	1617
12.0	1590	1599	1610	1602
15.0	1568	1580	1592	1582
18.0	1543	1556	1569	1558
21.0	1513	1527	1541	1530
24.0	1480	1494	1509	1497
27.0	1441	1457	1472	1460
30.0	1399	1417	1433	1418
33.0	1355	1373	1390	1373
36.0	1304	1324	1345	1324
39.0	1251	1272	1298	1271
42.0	1195	1216	1249	1215
45.0	1134	1157	1195	1155
48.0	1069	1093	1139	1091
51.0	1002	1028	1079	1024
54.0	930.5	957.4	1015	953.6
57.0	856.4	884.7	945.4	879.7
60.0	779.2	809.6	872.5	803.9
63.0	700.3	731.4	796.6	725.0
66.0	619.0	651.5	718.3	644.8
69.0	537.1	569.8	638.4	563.2
72.0	454.3	486.8	556.6	481.0
75.0	372.1	404.6	474.1	399.4
78.0	291.3	323.3	392.4	319.2
81.0	212.9	243.7	310.5	241.5
84.0	136.9	168.9	230.7	167.2
87.0	67.49	100.2	155.4	97.56
90.0	7.695	38.19	82.60	35.84

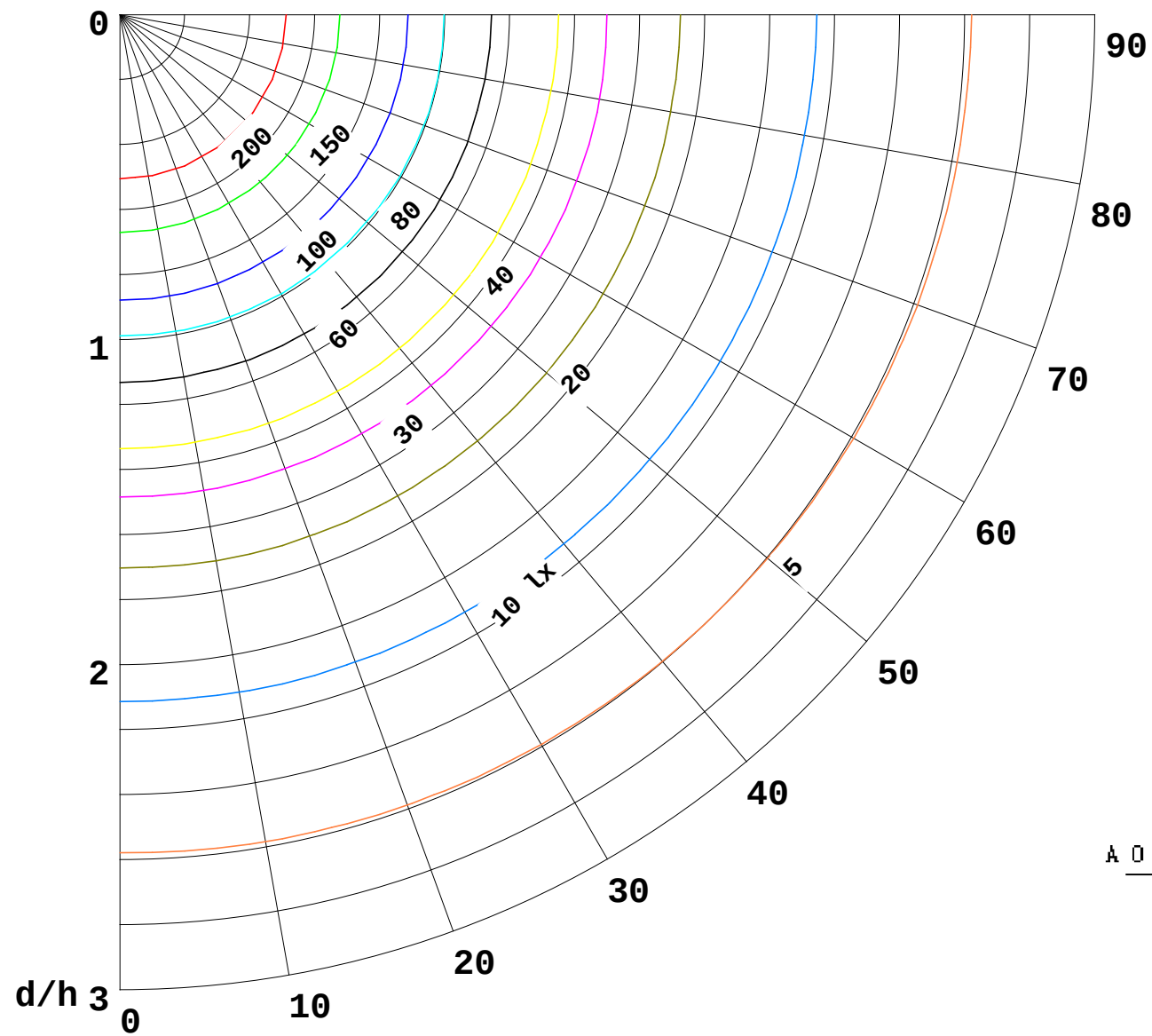
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 贏
Test Date: 2024-03-30

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

