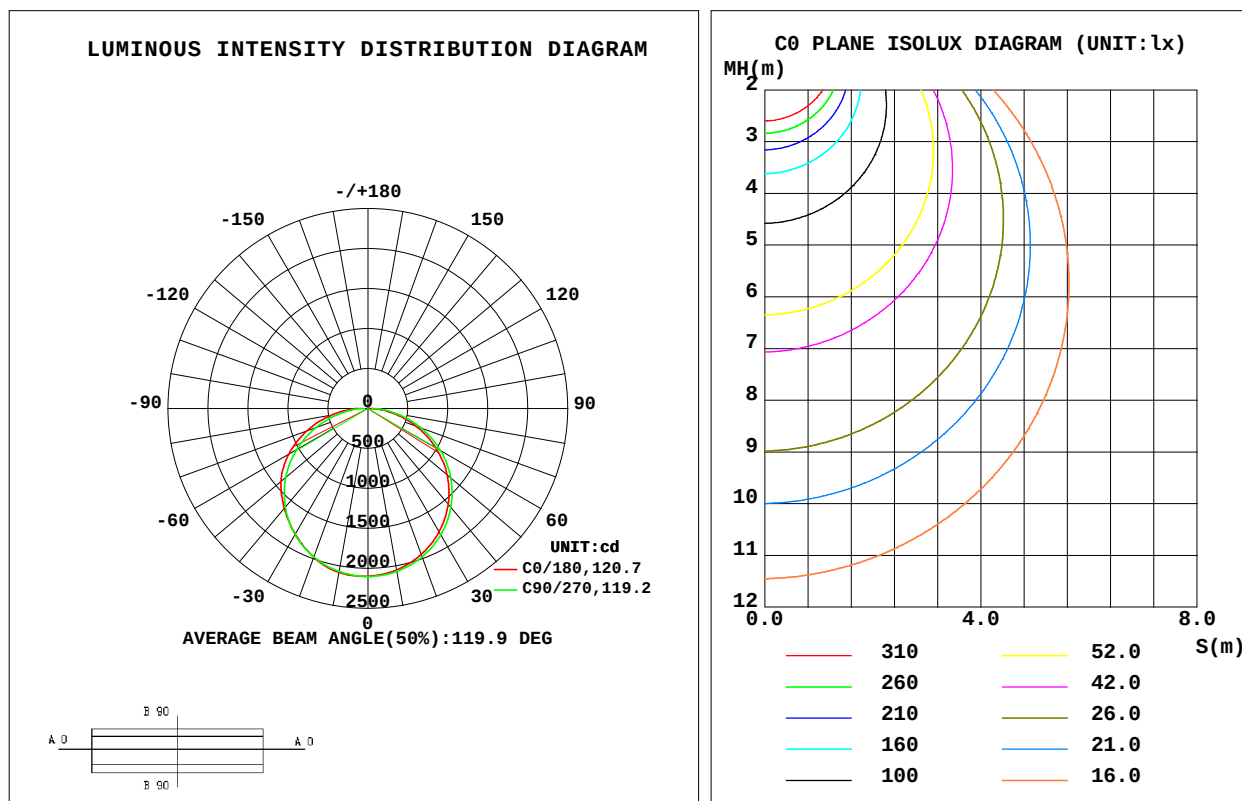


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.20V I:0.4606A P:55.181W PF:0.9968 Freq:59.98Hz Lamp Flux:6593.17x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 3500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.48 lm/W			
MODEL		I _{max} (cd)	2102	S/MH(C0/180)	1.29
NOMINAL POWER(W)	60w	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120-277v	TOTAL FLUX(lm)	6593.2	h UP, DN(C0-180)	0.0,48.6
NOMINAL FLUX(lm)	6593.17	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: 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	2051	2070	2084	2071					0- 10	199.0	199.0	3.02, 3.02
20	1944	1977	1981	1977					10- 20	572.5	771.5	11.7, 11.7
30	1780	1823	1818	1823					20- 30	874.6	1646	25, 25
40	1562	1613	1630	1609					30- 40	1072	2719	41.2, 41.2
50	1294	1353	1422	1343					40- 50	1145	3863	58.6, 58.6
60	978.7	1044	1145	1030					50- 60	1079	4942	75, 75
70	633.8	700.6	809.2	684.6					60- 70	871.5	5813	88.2, 88.2
80	291.1	352.6	453.2	339.7					70- 80	561.5	6375	96.7, 96.7
90	3.549	53.21	119.5	44.52					80- 90	218.4	6593	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		

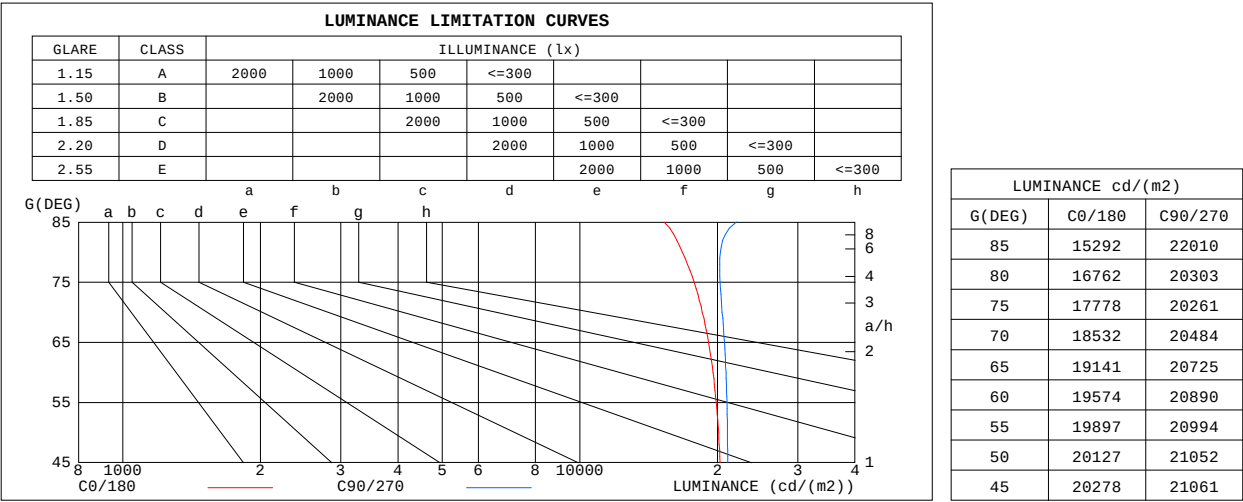
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

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:120.20V I:0.4606A P:55.181W PF:0.9968 Freq:59.98Hz Lamp Flux:6593.17x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 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

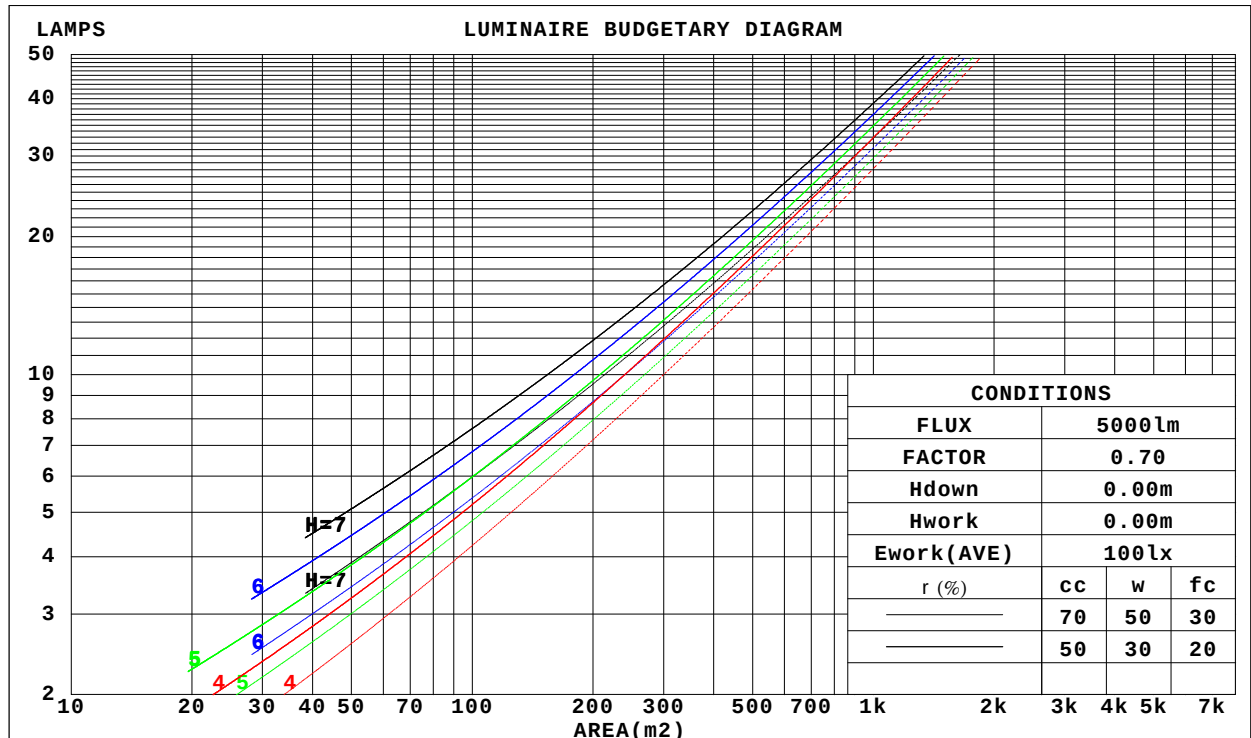
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.20V I:0.4606A P:55.181W PF:0.9968 Freq:59.98Hz Lamp Flux:6593.17x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 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	.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 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:120.20V I:0.4606A P:55.181W PF:0.9968 Freq:59.98Hz Lamp Flux:6593.17x1 lm					
NAME:			TYPE:		WEIGHT:
SPEC.:60w 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
R C R	R C R:Room Cavity Ratio Wall Exitance Coefficients(W E C)															
0.0																
1.0	.336	.191	.060	.329	.187	.060	.315	.181	.058	.303	.175	.056	.291	.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	.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	.150	.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:120.20V I:0.4606A P:55.181W PF:0.9968 Freq:59.98Hz Lamp Flux:6593.17x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:60w 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	23.2	24.8	23.5	25.0	25.2	23.4	25.0	23.7	25.2	25.4	
	3H	24.8	26.3	25.1	26.5	26.8	25.2	26.6	25.5	26.9	27.1
	4H	25.5	26.9	25.8	27.1	27.4	25.9	27.3	26.2	27.6	27.8
	6H	26.0	27.3	26.4	27.6	27.9	26.5	27.9	26.9	28.1	28.4
	8H	26.2	27.5	26.6	27.8	28.1	26.8	28.1	27.1	28.4	28.6
	12H	26.3	27.5	26.7	27.8	28.2	27.0	28.2	27.4	28.5	28.8
4H	2H	23.9	25.3	24.2	25.5	25.8	24.1	25.4	24.4	25.7	26.0
	3H	25.7	26.9	26.1	27.2	27.5	26.0	27.2	26.3	27.5	27.8
	4H	26.5	27.6	26.9	28.0	28.3	26.9	28.0	27.3	28.3	28.7
	6H	27.2	28.2	27.6	28.5	28.9	27.7	28.7	28.1	29.0	29.4
	8H	27.4	28.4	27.8	28.7	29.1	28.0	28.9	28.4	29.3	29.7
	12H	27.6	28.5	28.0	28.8	29.3	28.2	29.1	28.7	29.5	29.9
8H	4H	26.9	27.8	27.3	28.2	28.6	27.2	28.1	27.6	28.5	28.9
	6H	27.7	28.5	28.2	28.9	29.3	28.1	28.9	28.6	29.3	29.8
	8H	28.1	28.8	28.5	29.2	29.6	28.6	29.3	29.0	29.7	30.1
	12H	28.3	28.9	28.8	29.4	29.9	29.0	29.6	29.4	30.0	30.5
12H	4H	26.9	27.8	27.3	28.2	28.6	27.2	28.1	27.6	28.5	28.9
	6H	27.8	28.5	28.3	28.9	29.4	28.2	28.9	28.7	29.3	29.8
	8H	28.2	28.8	28.7	29.3	29.7	28.7	29.3	29.2	29.8	30.2
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, 6593 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.6$)

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:120.20V I:0.4606A P:55.181W PF:0.9968 Freq:59.98Hz Lamp Flux:6593.17x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 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	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		

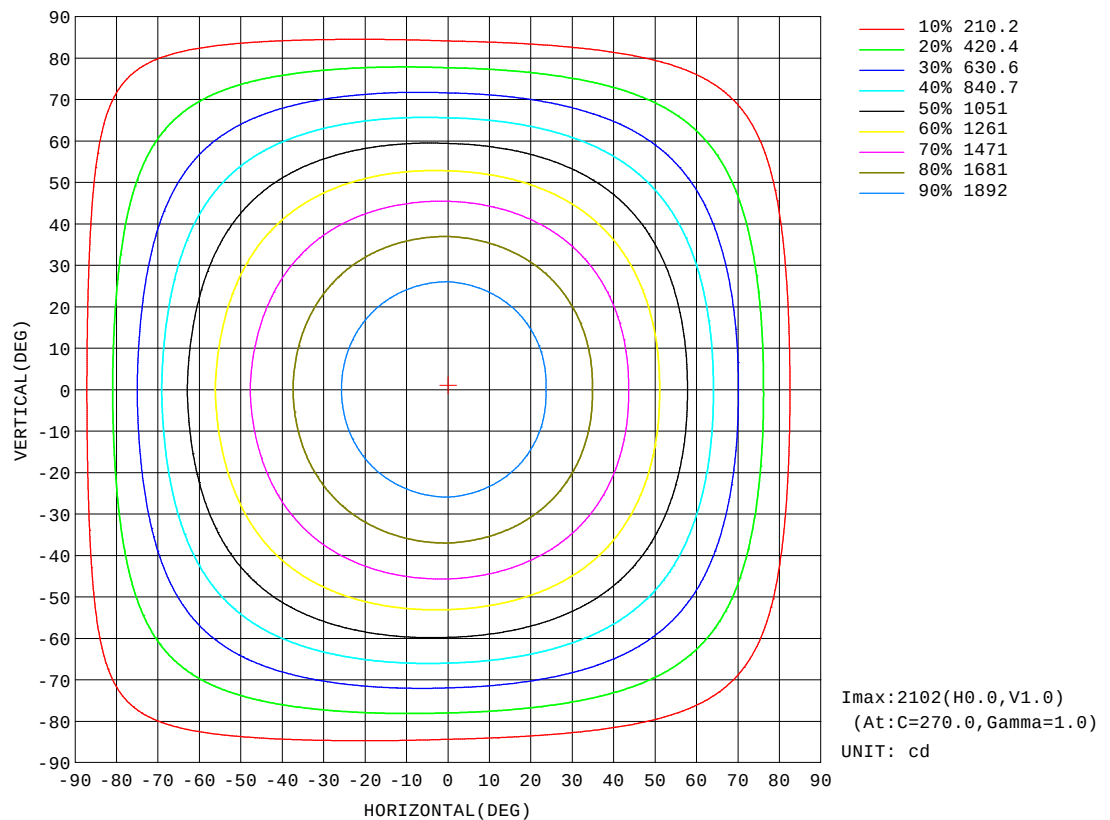
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

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:120.20V I:0.4606A P:55.181W PF:0.9968 Freq:59.98Hz Lamp Flux:6593.17x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 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

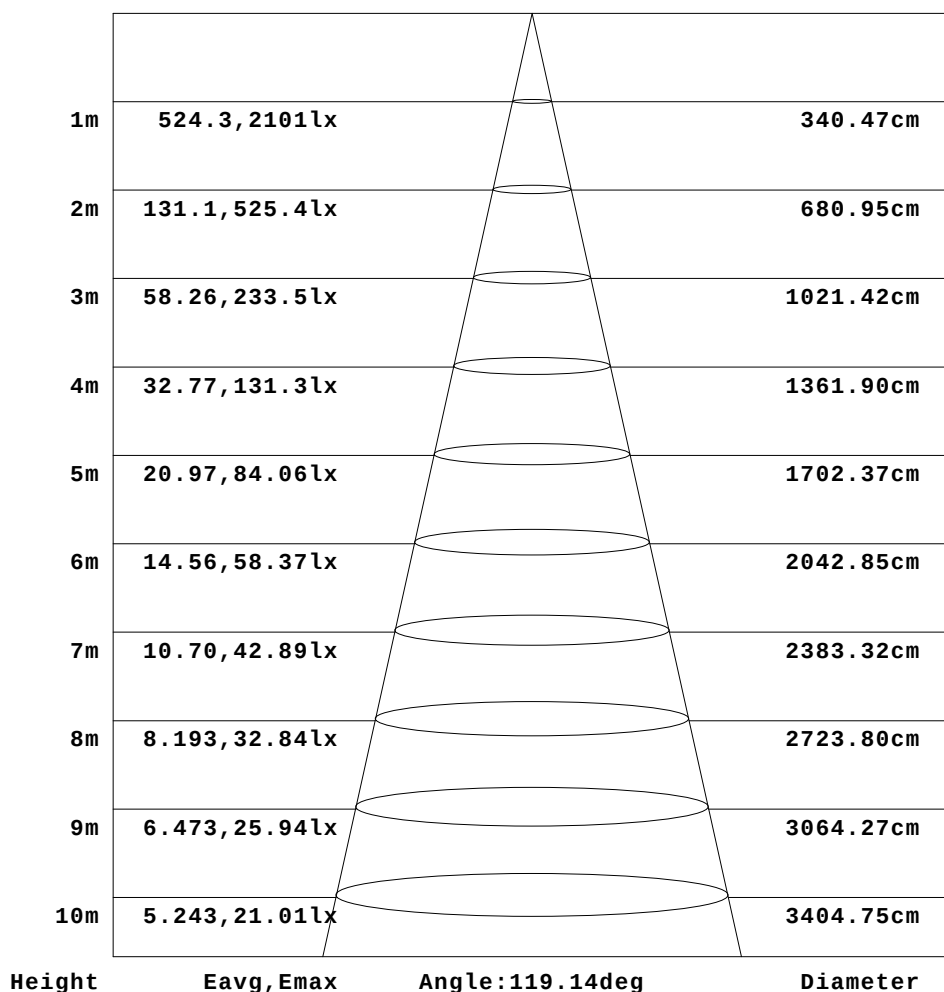
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.20V I:0.4606A P:55.181W PF:0.9968 Freq:59.98Hz Lamp Flux:6593.17x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 3500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:4942 lm



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

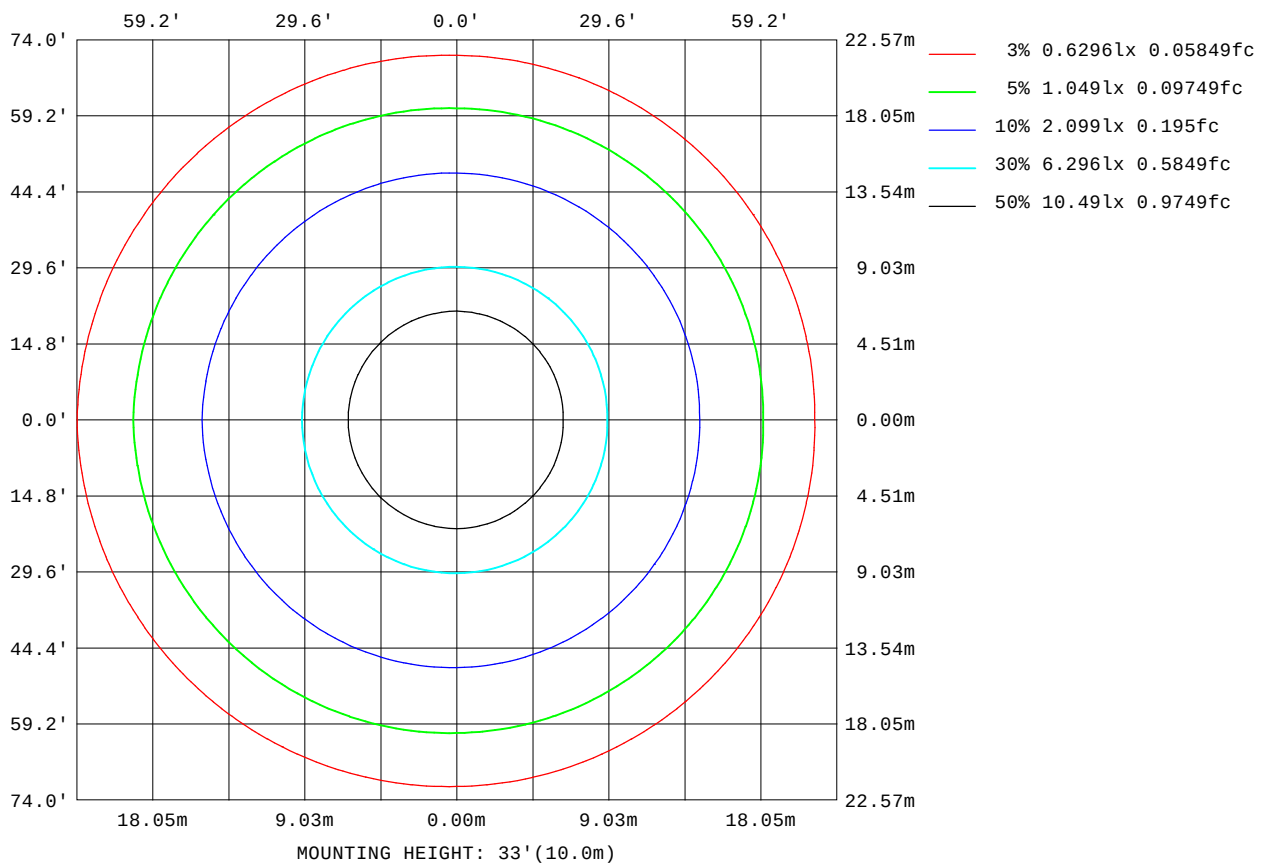
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

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:120.20V I:0.4606A P:55.181W PF:0.9968 Freq:59.98Hz Lamp Flux:6593.17x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 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:120.20V I:0.4606A P:55.181W PF:0.9968 Freq:59.98Hz Lamp Flux:6593.17x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 3500k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

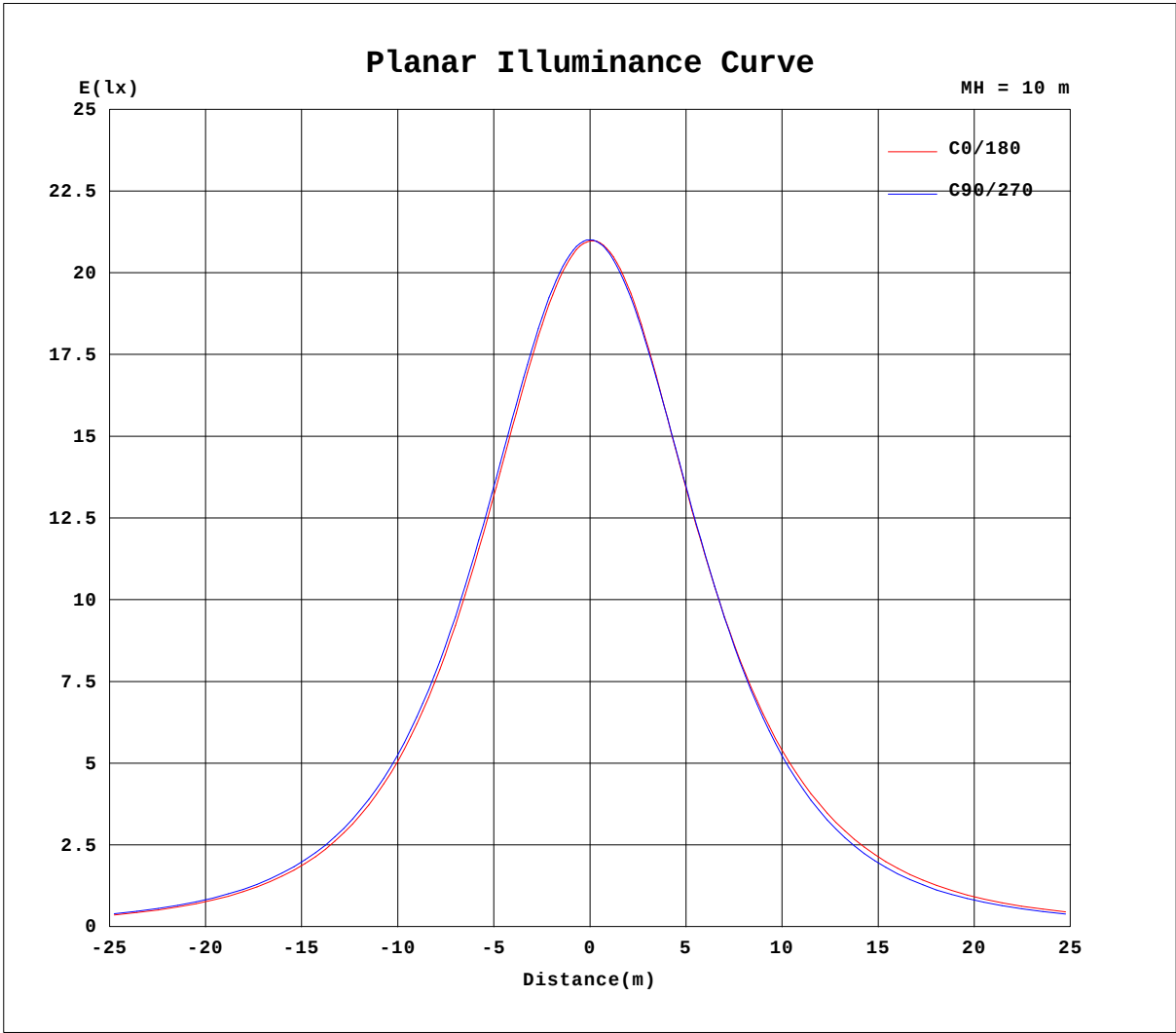
AvgL	cd/m2
L_0~180(65)av	21185
L_0~180(75)av	21076
L_0~180(85)av	23729
L_90~270(65)av	20532
L_90~270(75)av	19976
L_90~270(85)av	21457
L_45(65)av	20904
L_45(75)av	20594
L_45(85)av	22836

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 G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

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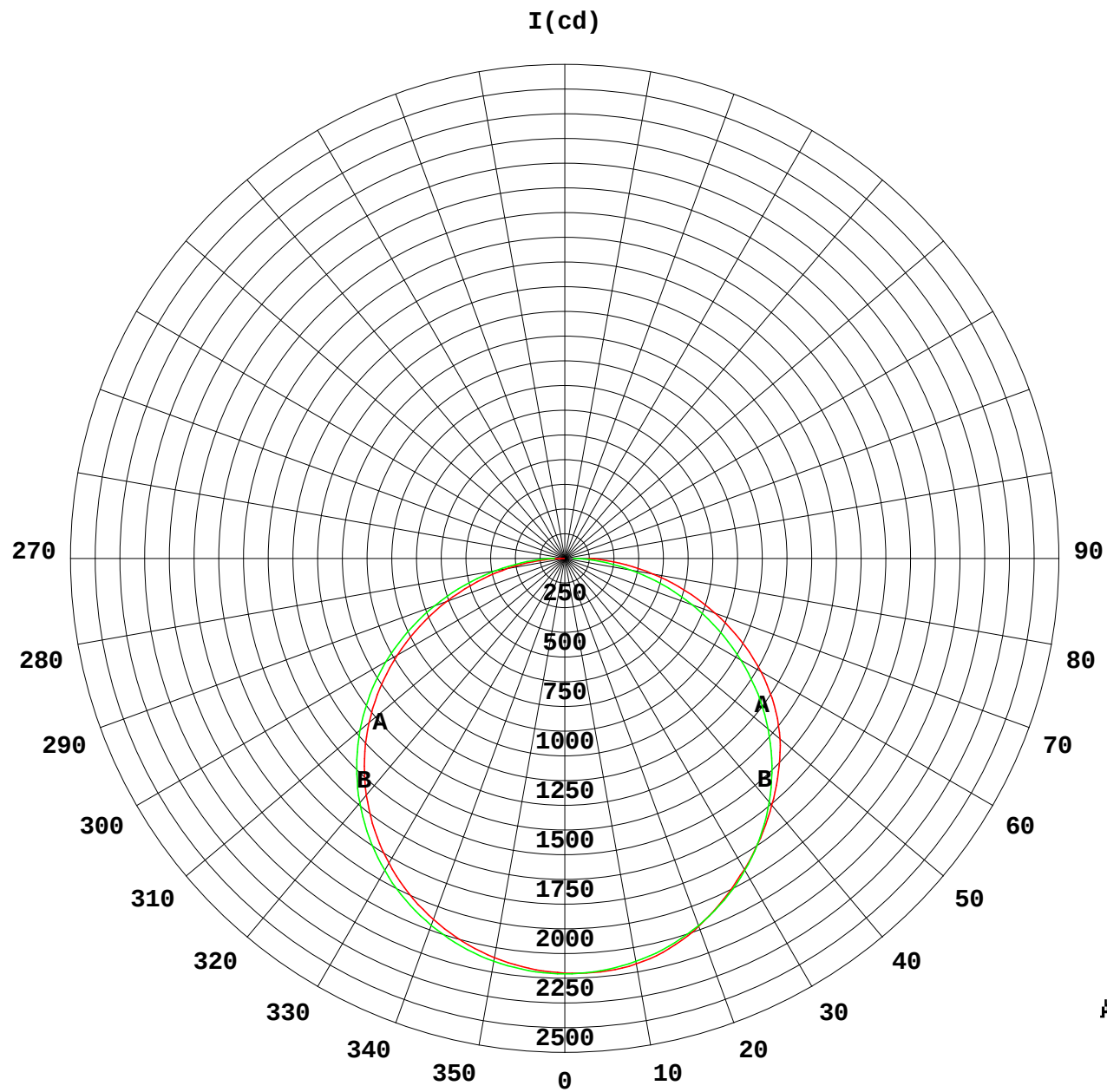
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	2099	2101	2099	2101
3.0	2091	2099	2101	2099
6.0	2077	2090	2098	2091
9.0	2059	2076	2089	2076
12.0	2034	2056	2071	2057
15.0	2005	2031	2044	2032
18.0	1970	1999	2009	2001
21.0	1930	1963	1966	1964
24.0	1886	1923	1919	1923
27.0	1835	1875	1869	1876
30.0	1780	1823	1818	1823
33.0	1721	1766	1764	1765
36.0	1657	1705	1708	1701
39.0	1586	1637	1650	1633
42.0	1513	1566	1590	1560
45.0	1434	1489	1529	1482
48.0	1350	1409	1466	1400
51.0	1263	1324	1398	1313
54.0	1172	1234	1320	1223
57.0	1077	1141	1236	1127
60.0	978.7	1044	1145	1030
63.0	877.4	944.0	1048	928.2
66.0	773.7	840.9	947.3	824.0
69.0	670.1	736.5	844.1	720.3
72.0	563.9	630.0	738.4	614.5
75.0	460.1	524.4	630.8	509.6
78.0	357.8	421.0	524.8	406.9
81.0	258.8	319.2	418.8	307.4
84.0	164.4	221.9	314.9	212.3
87.0	76.49	133.6	215.1	123.8
90.0	3.549	53.21	119.5	44.52

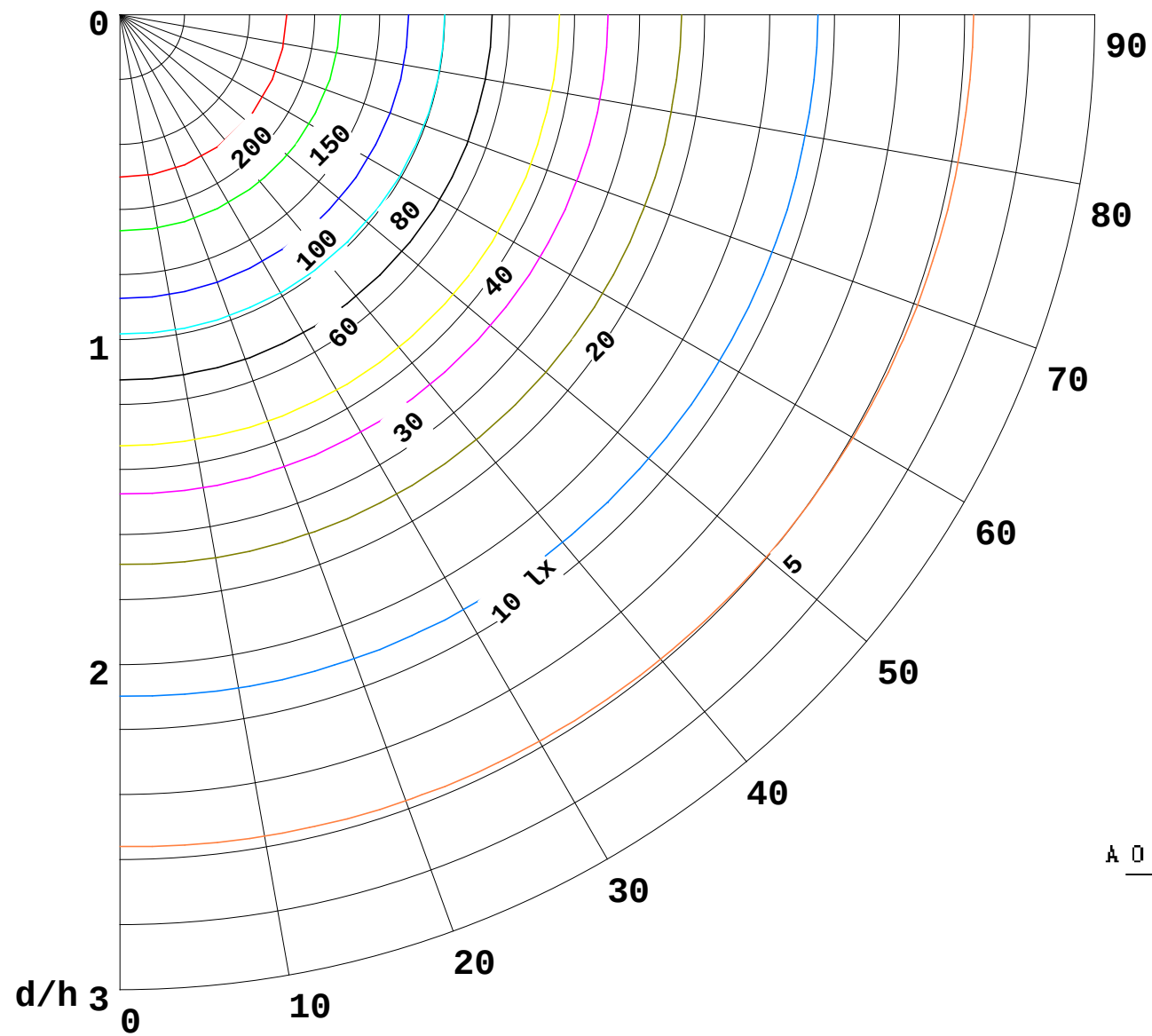
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 贏
Test Date: 2024-03-30

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

