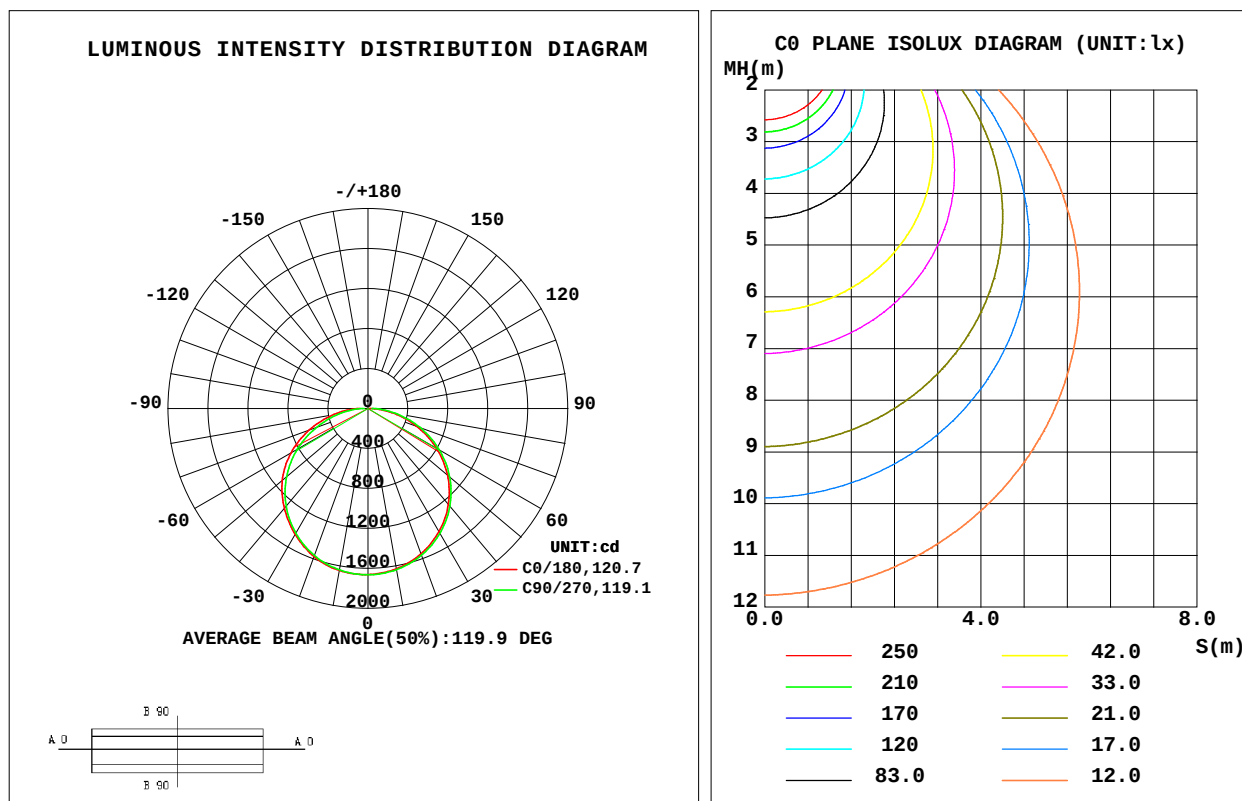


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.22V I:0.3118A P:37.198W PF:0.9925 Freq:59.98Hz Lamp Flux:5228.26x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 5000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 140.55 lm/W			
MODEL		I _{max} (cd)	1663	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)	5228.3	h UP, DN(C0-180)	0.0,48.9
NOMINAL FLUX(lm)	5228.26	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	1628	1638	1647	1640					0- 10	157.5	157.5	3.01, 3.01
20	1549	1563	1577	1566					10- 20	453.9	611.5	11.7, 11.7
30	1422	1441	1456	1443					20- 30	695.3	1307	25, 25
40	1251	1275	1303	1274					30- 40	853.2	2160	41.3, 41.3
50	1040	1068	1120	1065					40- 50	910.0	3070	58.7, 58.7
60	791.0	823.7	889.6	817.6					50- 60	854.4	3924	75.1, 75.1
70	516.2	551.7	623.4	544.5					60- 70	689.3	4614	88.2, 88.2
80	241.5	274.3	344.9	271.0					70- 80	443.5	5057	96.7, 96.7
90	7.386	39.25	84.77	36.32					80- 90	171.1	5228	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		

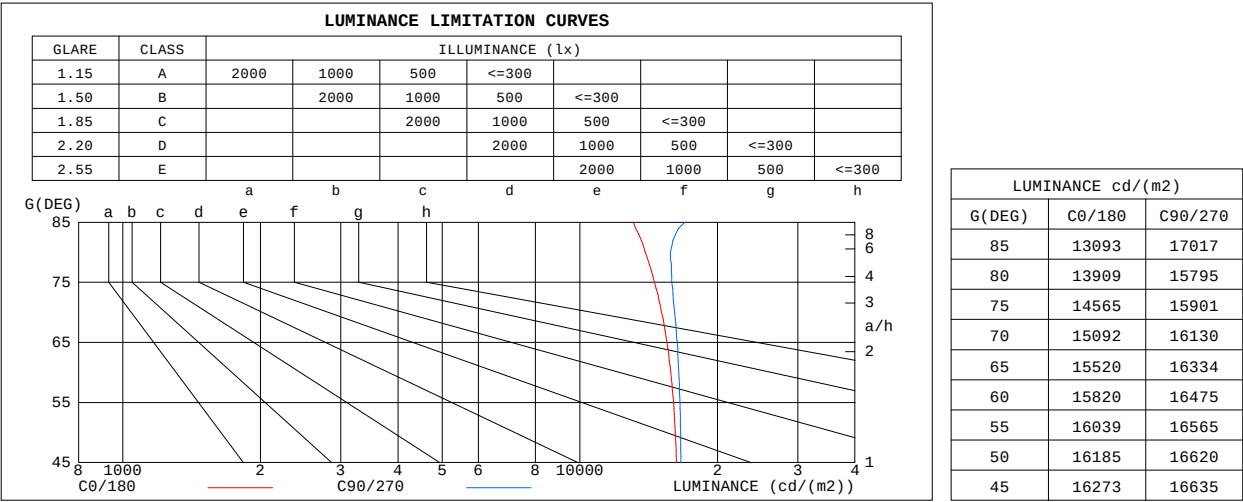
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

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:0.3118A P:37.198W PF:0.9925 Freq:59.98Hz Lamp Flux:5228.26x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 5000k	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

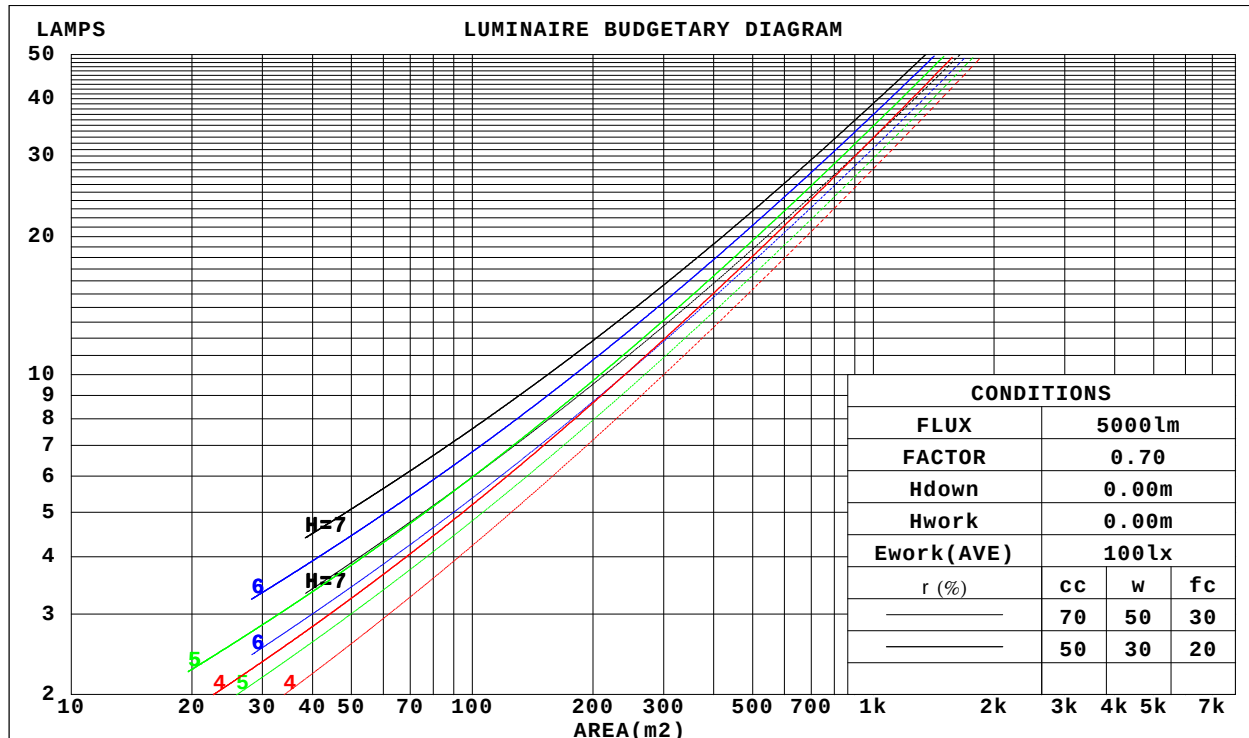
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.22V I:0.3118A P:37.198W PF:0.9925 Freq:59.98Hz Lamp Flux:5228.26x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 5000k	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	.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	.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	.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:120.22V I:0.3118A P:37.198W PF:0.9925 Freq:59.98Hz Lamp Flux:5228.26x1 lm					
NAME:			TYPE:		WEIGHT:
SPEC.:40w 5000k			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	.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:120.22V I:0.3118A P:37.198W PF:0.9925 Freq:59.98Hz Lamp Flux:5228.26x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:40w 5000k					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	22.5	24.0	22.7	24.2	24.5	22.6	24.2	22.9	24.4	24.6	
	3H	24.1	25.6	24.4	25.8	26.1	24.3	25.8	24.6	26.0	26.3
	4H	24.8	26.2	25.1	26.5	26.7	25.1	26.5	25.4	26.7	27.0
	6H	25.4	26.7	25.7	27.0	27.2	25.7	27.0	26.0	27.3	27.6
	8H	25.6	26.8	25.9	27.1	27.4	26.0	27.2	26.3	27.5	27.8
	12H	25.7	26.9	26.0	27.2	27.5	26.1	27.4	26.5	27.7	28.0
4H	2H	23.1	24.5	23.5	24.8	25.1	23.3	24.6	23.6	24.9	25.2
	3H	25.0	26.2	25.4	26.5	26.8	25.2	26.4	25.5	26.7	27.0
	4H	25.8	27.0	26.2	27.3	27.6	26.1	27.2	26.4	27.5	27.8
	6H	26.5	27.5	26.9	27.9	28.2	26.8	27.8	27.2	28.2	28.6
	8H	26.8	27.7	27.2	28.1	28.5	27.1	28.1	27.6	28.4	28.8
	12H	27.0	27.8	27.4	28.2	28.6	27.4	28.3	27.8	28.7	29.1
8H	4H	26.2	27.1	26.6	27.5	27.9	26.4	27.3	26.8	27.7	28.1
	6H	27.0	27.8	27.5	28.2	28.7	27.3	28.1	27.8	28.5	28.9
	8H	27.4	28.1	27.9	28.5	29.0	27.7	28.4	28.2	28.9	29.3
	12H	27.7	28.3	28.2	28.7	29.2	28.1	28.7	28.6	29.2	29.7
12H	4H	26.2	27.1	26.6	27.5	27.9	26.4	27.3	26.8	27.7	28.1
	6H	27.1	27.8	27.6	28.3	28.7	27.4	28.1	27.9	28.5	29.0
	8H	27.6	28.2	28.0	28.6	29.1	27.9	28.5	28.4	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, 5228 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:120.22V I:0.3118A P:37.198W PF:0.9925 Freq:59.98Hz Lamp Flux:5228.26x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 5000k	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	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	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		

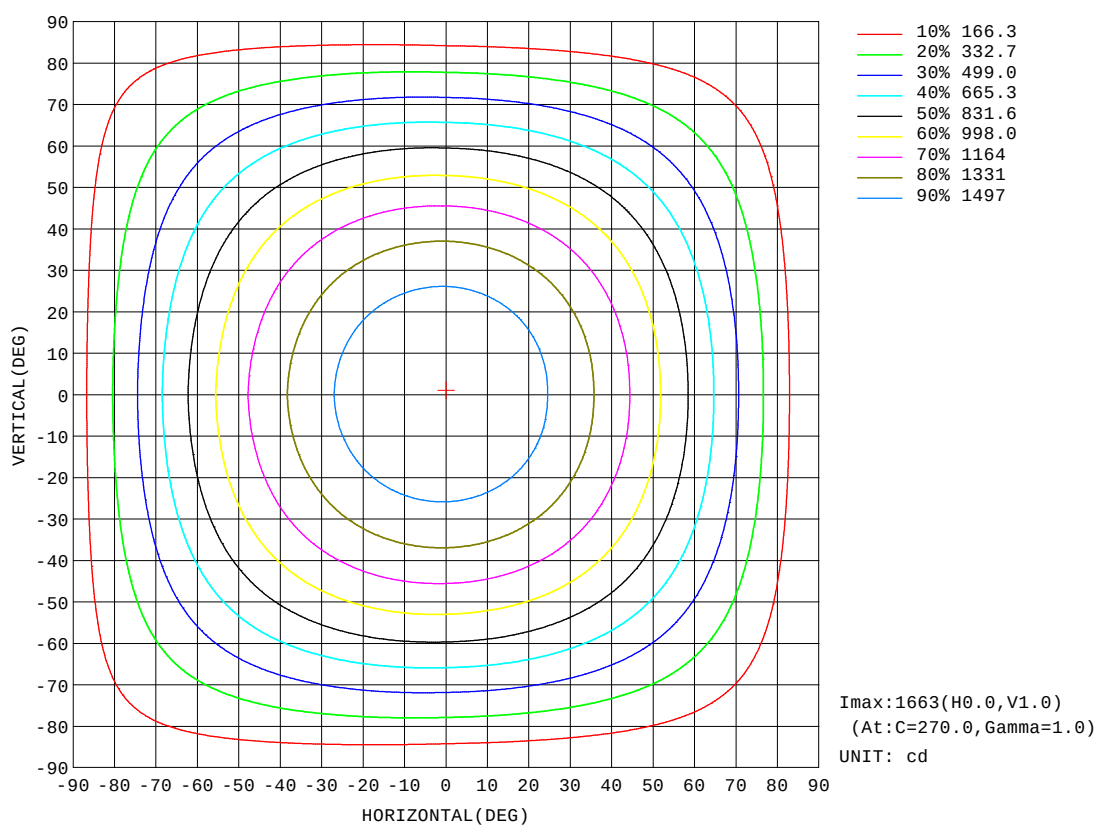
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: 贏
 Test Date:2024-03-30

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:120.22V I:0.3118A P:37.198W PF:0.9925 Freq:59.98Hz Lamp Flux:5228.26x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 5000k	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

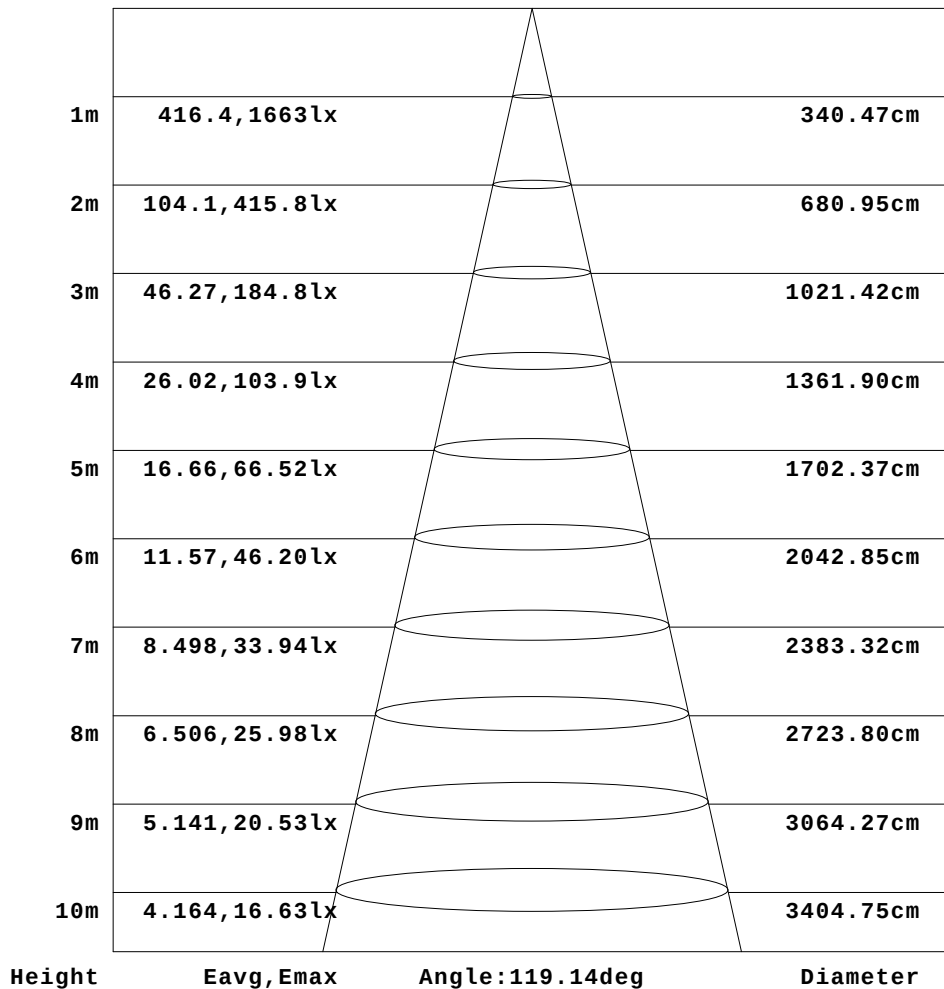
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.22V I:0.3118A P:37.198W PF:0.9925 Freq:59.98Hz Lamp Flux:5228.26x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 5000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:3924 lm



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

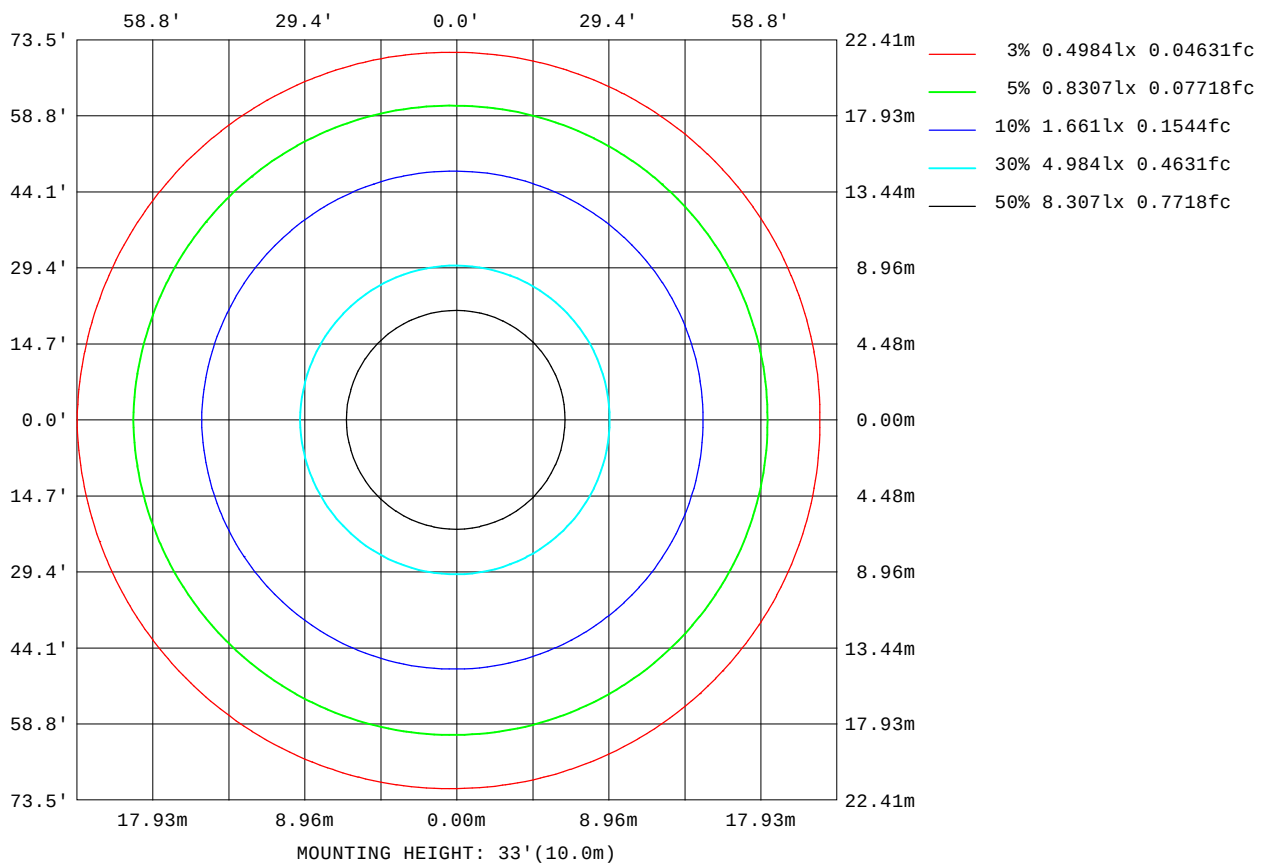
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: 赢
Test Date:2024-03-30

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:0.3118A P:37.198W PF:0.9925 Freq:59.98Hz Lamp Flux:5228.26x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 5000k	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:0.3118A P:37.198W PF:0.9925 Freq:59.98Hz Lamp Flux:5228.26x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 5000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

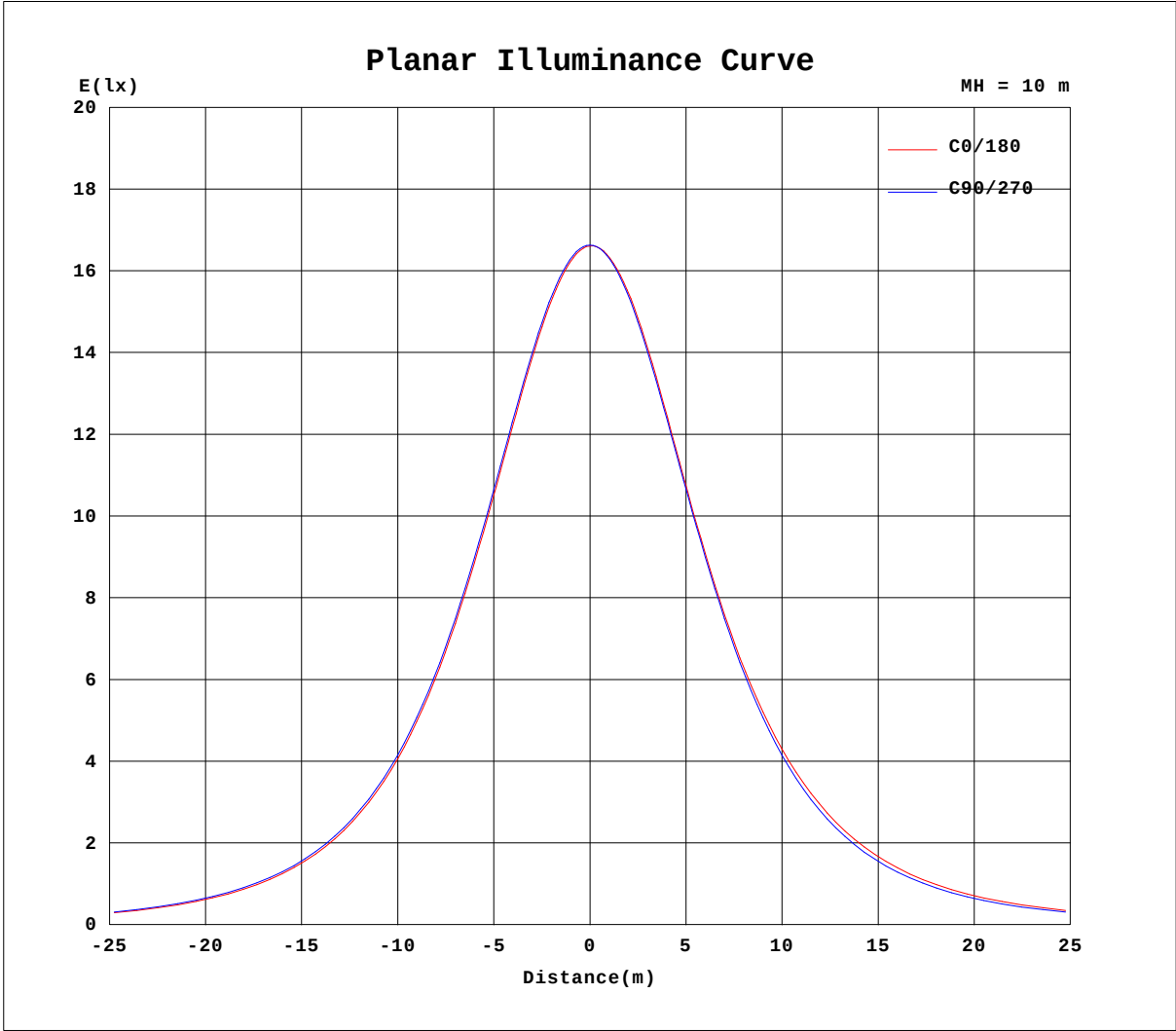
AvgL	cd/m2
L_0~180(65)av	16745
L_0~180(75)av	16626
L_0~180(85)av	18581
L_90~270(65)av	16243
L_90~270(75)av	15791
L_90~270(85)av	16823
L_45(65)av	16508
L_45(75)av	16233
L_45(85)av	17826

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:

Test:U:120.22V I:0.3118A P:37.198W PF:0.9925 Freq:59.98Hz Lamp Flux:5228.26x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:40w 5000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

[illegible]

C Range: 0 - 360DEG	g Range: 0 - 90DEG
C Interval: 90.0DEG	g Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Temperature:25.3DEG	Humidity:65.0%
Operators:贏	Test Distance:8.300m [K=1.0000]
Test Date:2024-03-30	Remarks:

```

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:

```

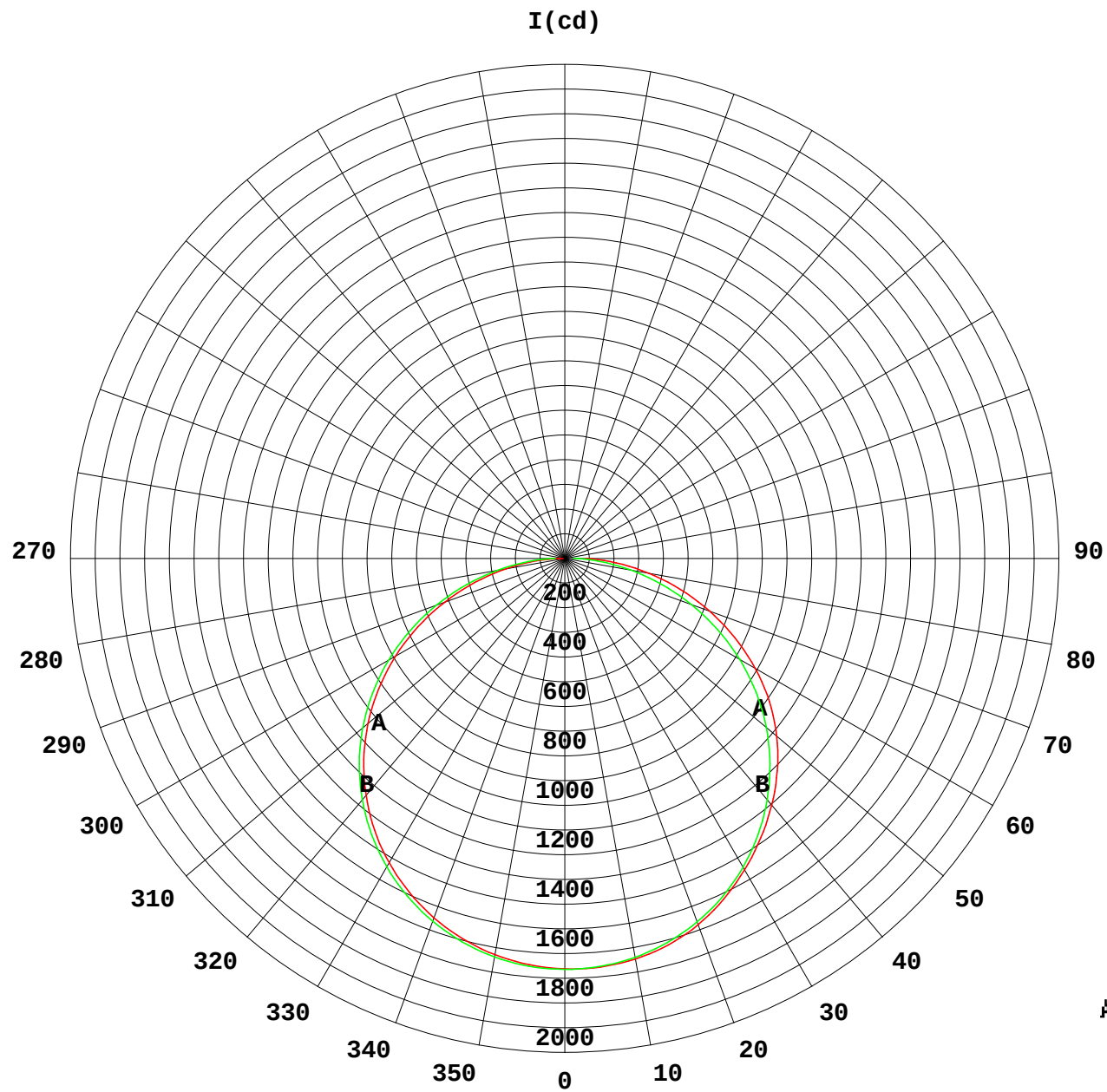
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	1661	1663	1661	1663
3.0	1657	1661	1662	1662
6.0	1648	1655	1658	1655
9.0	1634	1643	1651	1644
12.0	1616	1627	1638	1629
15.0	1594	1607	1620	1609
18.0	1568	1582	1597	1585
21.0	1537	1553	1567	1556
24.0	1503	1520	1534	1523
27.0	1465	1482	1497	1485
30.0	1422	1441	1456	1443
33.0	1376	1396	1412	1397
36.0	1325	1347	1367	1347
39.0	1271	1294	1319	1293
42.0	1213	1238	1270	1236
45.0	1151	1176	1216	1174
48.0	1085	1112	1160	1110
51.0	1016	1045	1100	1041
54.0	944.3	973.9	1034	969.8
57.0	868.8	900.3	963.5	894.4
60.0	791.0	823.7	889.6	817.6
63.0	710.6	743.9	812.5	737.2
66.0	627.6	662.5	732.4	655.3
69.0	545.1	579.9	651.0	572.4
72.0	460.5	495.4	567.9	489.2
75.0	377.0	411.5	483.6	405.9
78.0	295.0	330.0	400.6	324.6
81.0	215.6	248.4	317.1	245.4
84.0	138.4	172.2	236.0	169.8
87.0	67.95	102.3	159.0	99.12
90.0	7.386	39.25	84.77	36.32

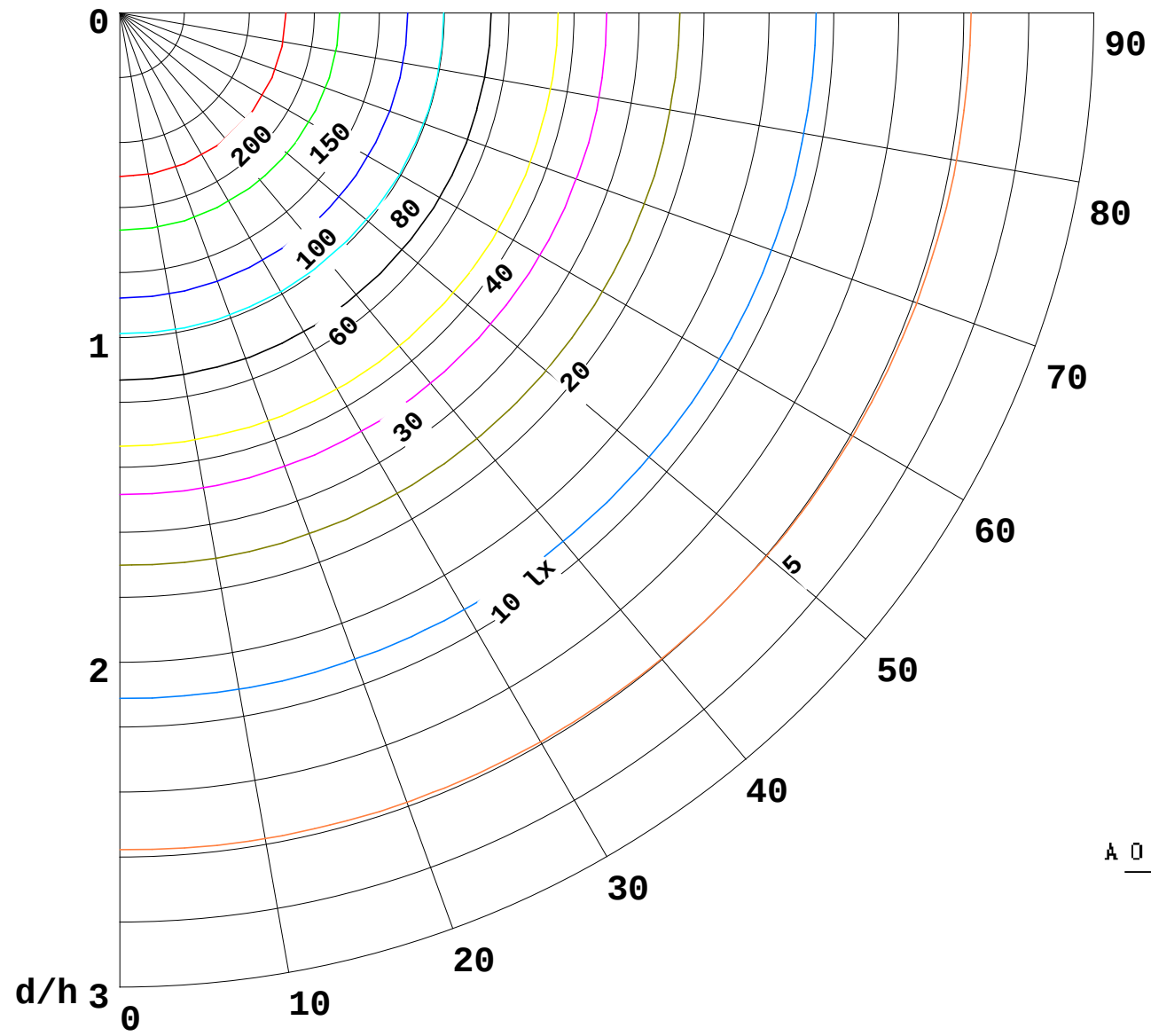
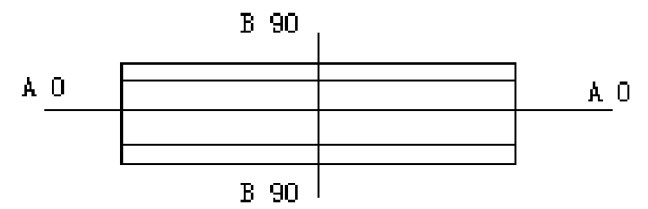
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 贏
Test Date: 2024-03-30

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

