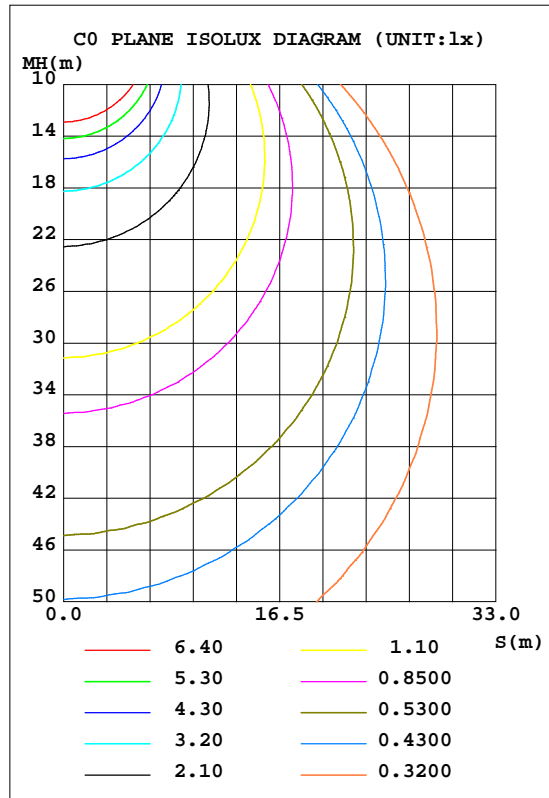
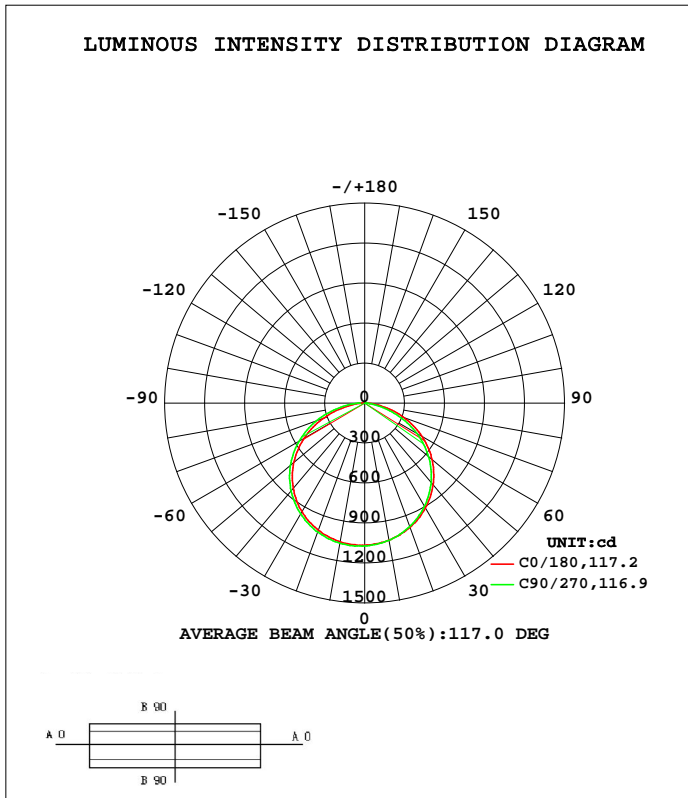


**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:230.46V I:0.2871A P:27.067W PF:0.4091 Freq:50.00Hz Lamp Flux:3212.03x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:3000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 118.67 lm/W			
MODEL	YM2835240-ML-WW-22W	I <sub>max</sub> (cd)	1076	S/MH(C0/180)	1.31
NOMINAL POWER(W)	22	LOR(%)	100.0	S/MH(C90/270)	1.33
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3212.0	η UP, DN(C0-180)	0.0,47.0
NOMINAL FLUX(lm)	3212.03	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,53.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:28DEG  
 Operators:  
 Test Date:2024-03-16

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.401  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

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**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	1044	1043	1046	1053	1056	1065	1068	1064	0- 10	101.4	101.4	3.16,3.16
20	993.8	985.1	988.1	1000	1017	1027	1030	1022	10- 20	292.3	393.8	12.3,12.3
30	910.5	896.9	897.1	915.5	940.6	958.4	961.3	947.4	20- 30	448.2	841.9	26.2,26.2
40	799.9	780.1	777.0	796.6	835.7	854.9	859.1	845.8	30- 40	548.9	1391	43.3,43.3
50	661.2	633.9	626.0	648.6	695.8	720.4	727.9	712.0	40- 50	579.8	1971	61.4,61.4
60	496.0	464.2	449.7	469.4	523.2	553.6	567.6	551.7	50- 60	533.2	2504	78,78
70	309.7	272.5	255.6	268.7	324.2	361.4	381.3	368.1	60- 70	410.6	2914	90.7,90.7
80	122.3	92.18	77.36	82.71	125.6	161.0	182.9	174.6	70- 80	232.2	3147	98,98
90	3.092	6.464	4.757	4.140	2.044	22.88	31.77	29.67	80- 90	65.37	3212	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		

Conical surface Flux(90deg): 1681.7 lm

%lum = 52.4%  
 %lamp = 52.4%

Conical surface Flux(120deg): 2503.9 lm

%lum = 78.0%  
 %lamp = 78.0%

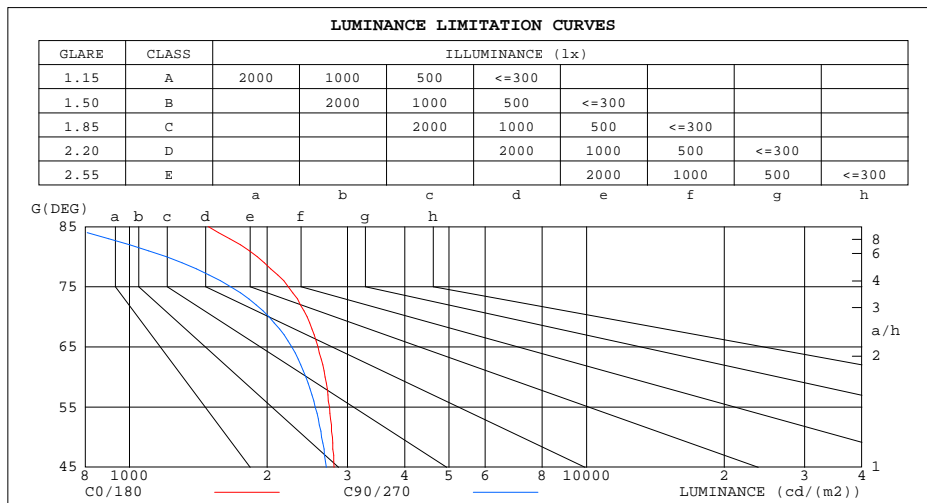
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:28DEG  
 Operators:  
 Test Date:2024-03-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.401  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINANCE LIMITATION CURVES**

Test:U:230.46V I:0.2871A P:27.067W PF:0.4091 Freq:50.00Hz Lamp Flux:3212.03x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:3000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1488	726
80	1903	1204
75	2226	1665
70	2447	2020
65	2584	2266
60	2681	2431
55	2741	2548
50	2780	2632
45	2801	2698

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:28DEG  
 Operators:  
 Test Date:2024-03-16

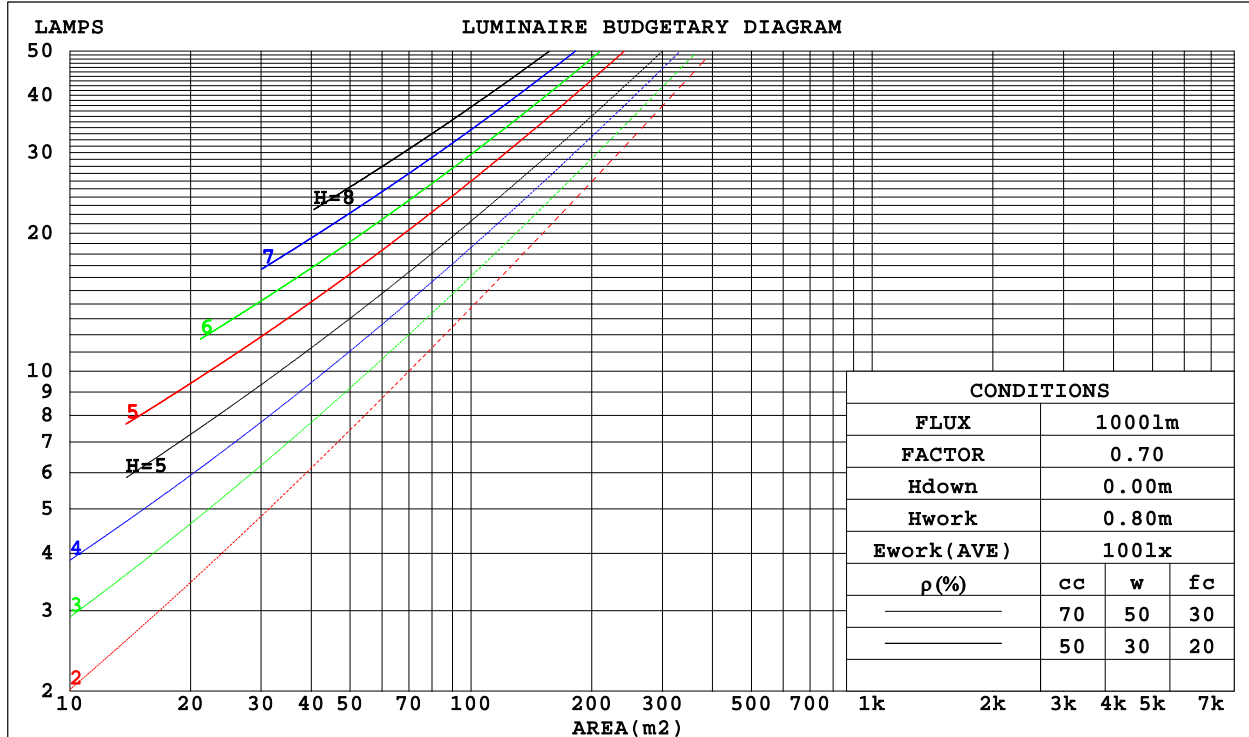
γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.401  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.46V I:0.2871A P:27.067W PF:0.4091 Freq:50.00Hz Lamp Flux:3212.03x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:3000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.90	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.53	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.50	.44	.39	.37
7.0	.51	.42	.35	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.37	.31	.43	.36	.31	.42	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.36	.30	.25	.23



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:28DEG  
 Operators:  
 Test Date:2024-03-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.401  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**WEC AND CCEC**

Test:U:230.46V I:0.2871A P:27.067W PF:0.4091 Freq:50.00Hz Lamp Flux:3212.03x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:3000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.315	.179	.057	.308	.175	.056	.294	.169	.054	.282	.163	.052	.271	.157	.051	
2.0	.296	.162	.050	.289	.159	.049	.278	.154	.048	.267	.150	.047	.257	.145	.046	
3.0	.273	.146	.044	.268	.143	.043	.257	.140	.042	.248	.136	.042	.239	.132	.041	
4.0	.252	.131	.039	.247	.129	.038	.238	.126	.038	.229	.123	.037	.221	.120	.037	
5.0	.233	.119	.034	.228	.117	.034	.220	.115	.034	.213	.112	.033	.206	.110	.033	
6.0	.216	.108	.031	.212	.107	.031	.205	.105	.031	.198	.103	.030	.191	.101	.030	
7.0	.201	.099	.028	.197	.098	.028	.191	.096	.028	.185	.095	.028	.179	.093	.027	
8.0	.187	.092	.026	.184	.091	.026	.178	.089	.025	.173	.088	.025	.168	.086	.025	
9.0	.175	.085	.024	.173	.084	.024	.167	.083	.023	.162	.081	.023	.158	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.158	.077	.022	.153	.076	.022	.149	.075	.022	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.181	.156	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.019	.017	.015	
2.0	.173	.132	.098	.148	.114	.084	.101	.079	.059	.058	.046	.034	.019	.015	.011	
3.0	.165	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.011	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.028	.112	.060	.025	.077	.042	.018	.045	.025	.011	.015	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.101	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:28DEG  
 Operators:  
 Test Date:2024-03-16

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.401  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**UGR(Unified Glare Rating) Table**

Test:U:230.46V I:0.2871A P:27.067W PF:0.4091 Freq:50.00Hz Lamp Flux:3212.03x1 lm										
NAME: LED灯带					TYPE:2835			WEIGHT:		
SPEC.:3000K					DIM.: 500*10MM 1M			SERIAL No.:		
MFR.:					SUR.:0.32			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	16.2	17.8	16.5	18.0	18.2	15.9	17.4	16.2	17.6	17.8
3H	17.7	19.2	18.0	19.4	19.6	17.2	18.6	17.5	18.9	19.1
4H	18.3	19.7	18.6	19.9	20.2	17.6	19.0	17.9	19.2	19.5
6H	18.7	20.0	19.1	20.3	20.5	17.8	19.1	18.2	19.4	19.7
8H	18.8	20.1	19.2	20.3	20.6	17.9	19.1	18.2	19.4	19.7
12H	18.9	20.1	19.2	20.4	20.7	17.8	19.0	18.2	19.3	19.6
4H 2H	16.7	18.1	17.1	18.4	18.6	16.5	17.8	16.8	18.1	18.4
3H	18.4	19.6	18.8	19.9	20.2	18.0	19.2	18.3	19.5	19.8
4H	19.1	20.2	19.5	20.5	20.9	18.5	19.6	18.9	19.9	20.2
6H	19.6	20.6	20.0	20.9	21.3	18.8	19.8	19.2	20.1	20.5
8H	19.8	20.7	20.2	21.0	21.4	18.9	19.8	19.3	20.1	20.5
12H	19.9	20.7	20.3	21.1	21.5	18.9	19.7	19.3	20.1	20.5
8H 4H	19.3	20.2	19.7	20.6	20.9	18.7	19.6	19.1	20.0	20.4
6H	19.9	20.6	20.3	21.1	21.5	19.1	19.9	19.6	20.3	20.7
8H	20.1	20.8	20.6	21.2	21.7	19.2	19.9	19.7	20.3	20.8
12H	20.3	20.8	20.7	21.3	21.8	19.3	19.9	19.8	20.3	20.8
12H 4H	19.3	20.1	19.7	20.5	20.9	18.7	19.6	19.2	19.9	20.3
6H	19.9	20.6	20.4	21.0	21.5	19.2	19.8	19.6	20.3	20.7
8H	20.2	20.7	20.6	21.2	21.6	19.3	19.9	19.8	20.3	20.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 3212 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.1)

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:28DEG  
 Operators:  
 Test Date:2024-03-16

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.401  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**UTILIZATION FACTORS TABLE**

Test:U:230.46V I:0.2871A P:27.067W PF:0.4091 Freq:50.00Hz Lamp Flux:3212.03x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:3000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	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) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	49
1.25	82	72	65	81	71	64	78	70	63	56
1.50	88	77	70	86	77	70	83	75	69	61
2.00	95	86	79	93	85	78	89	82	77	69
2.50	98	91	84	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	104	99	106	102	98	101	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

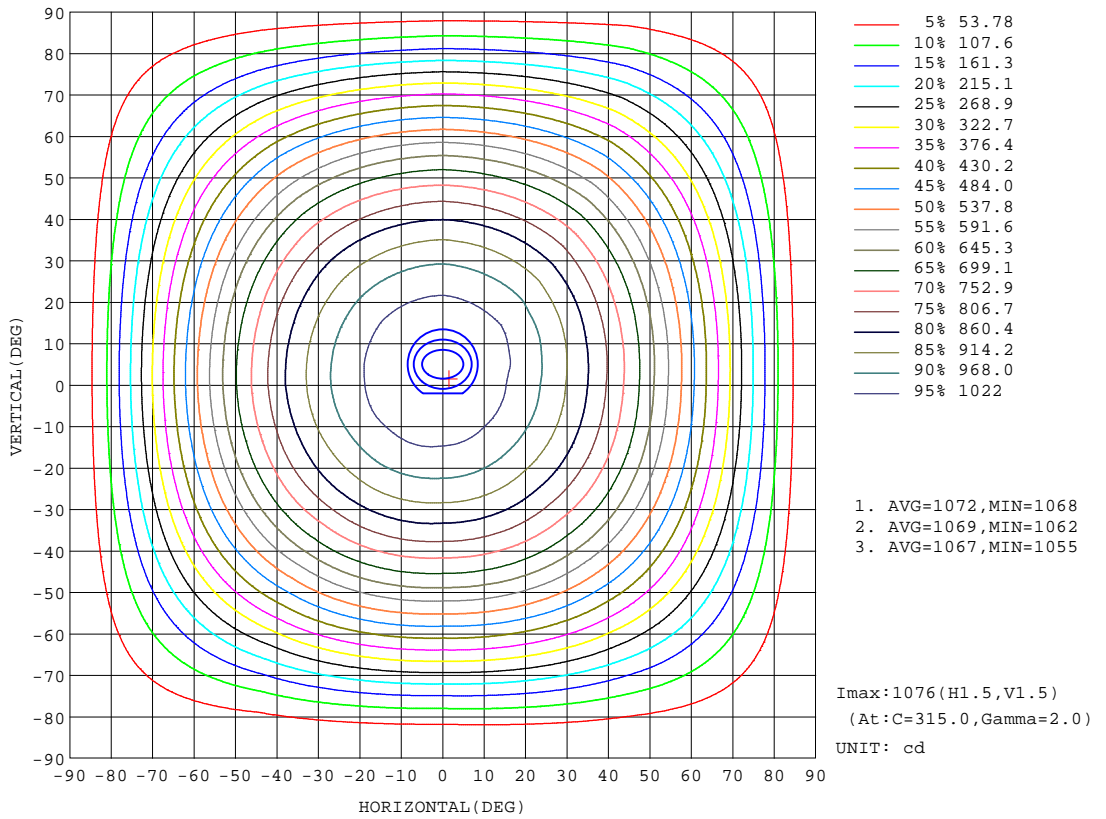
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:28DEG  
 Operators:  
 Test Date:2024-03-16

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.401  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:230.46V I:0.2871A P:27.067W PF:0.4091 Freq:50.00Hz Lamp Flux:3212.03x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:3000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:  
Test Date:2024-03-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:8.000m [K=1.0000]  
Remarks:

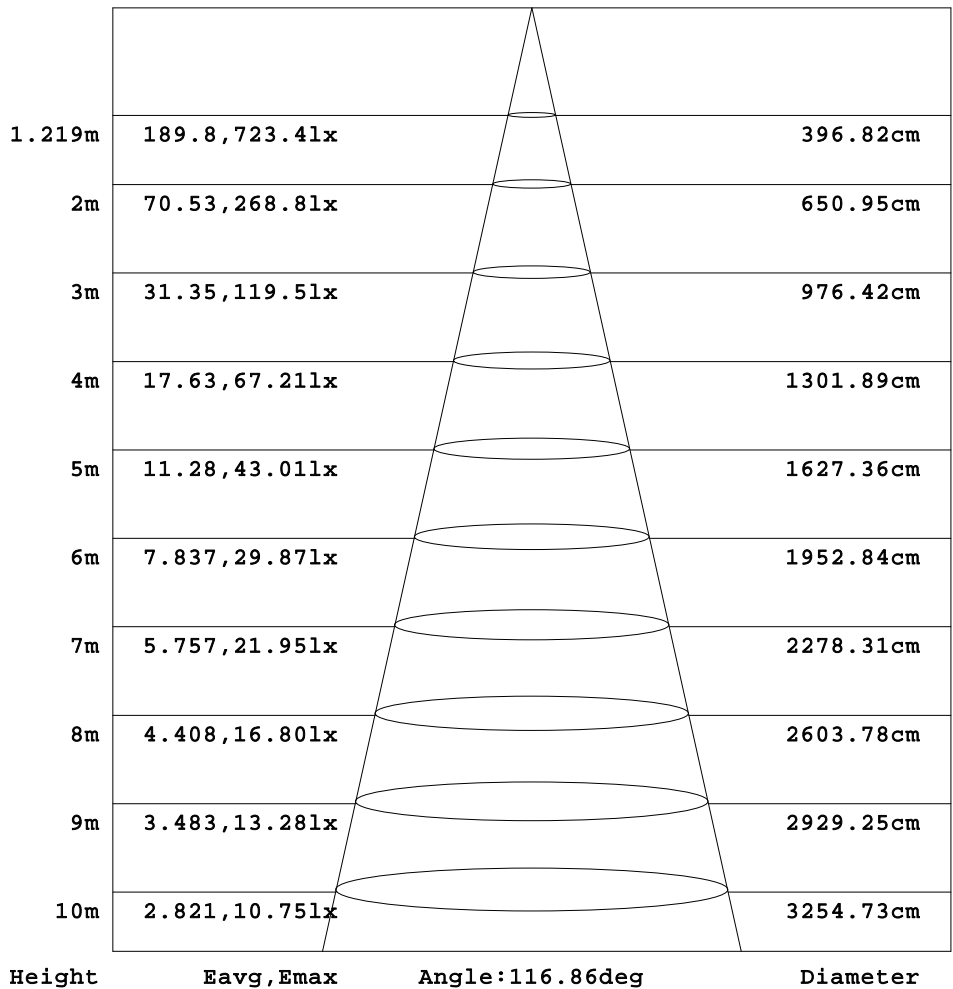


**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**AAI Figure**

Test:U:230.46V I:0.2871A P:27.067W PF:0.4091 Freq:50.00Hz Lamp Flux:3212.03x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:3000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	Shielding Angle:

Flux out:2455 lm



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

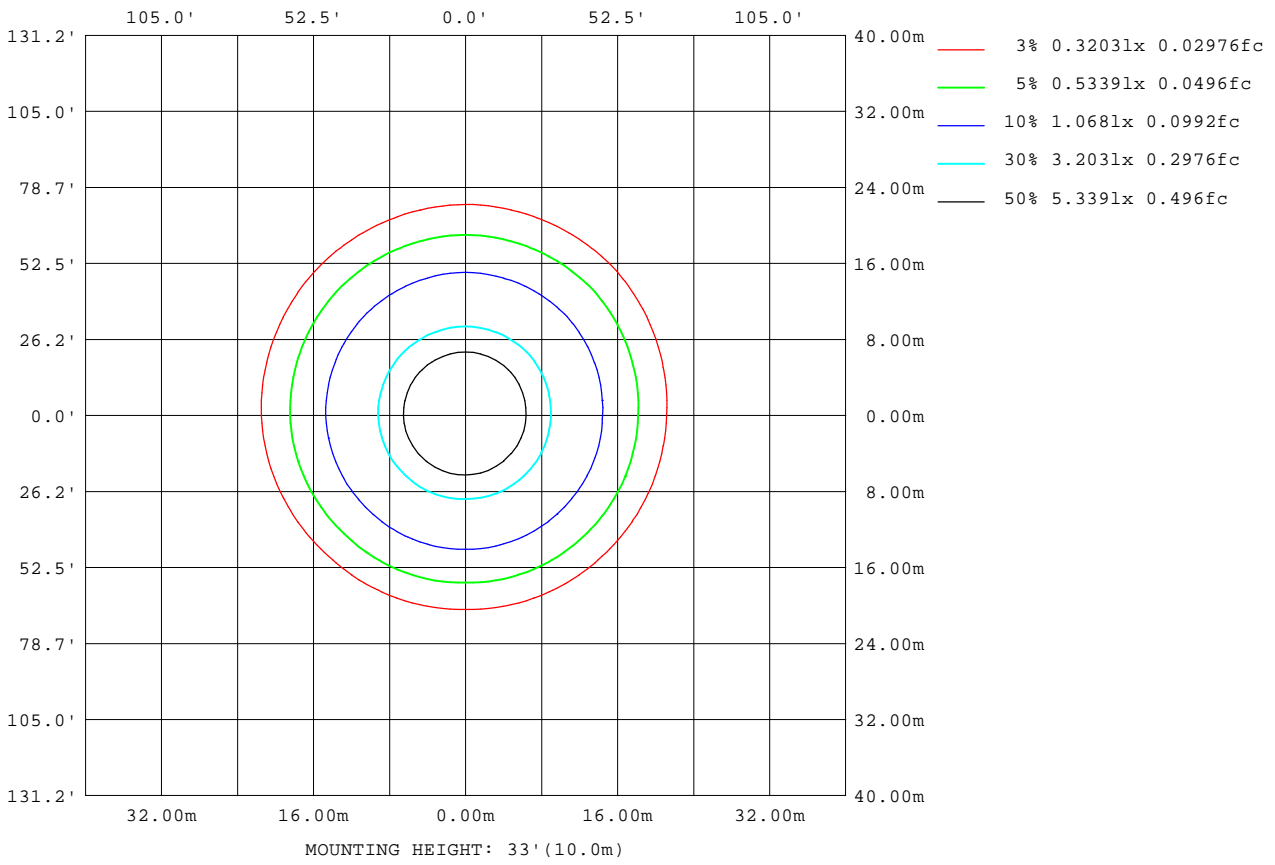
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 28DEG  
 Operators:  
 Test Date: 2024-03-16

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.401  
 Humidity: 65.0%  
 Test Distance: 8.000m [K=1.0000]  
 Remarks:

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**ISOLUX DIAGRAM**

Test:U:230.46V I:0.2871A P:27.067W PF:0.4091 Freq:50.00Hz Lamp Flux:3212.03x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:3000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:28DEG  
 Operators:  
 Test Date:2024-03-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.401  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:230.46V I:0.2871A P:27.067W PF:0.4091 Freq:50.00Hz Lamp Flux:3212.03x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:3000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	Shielding Angle:

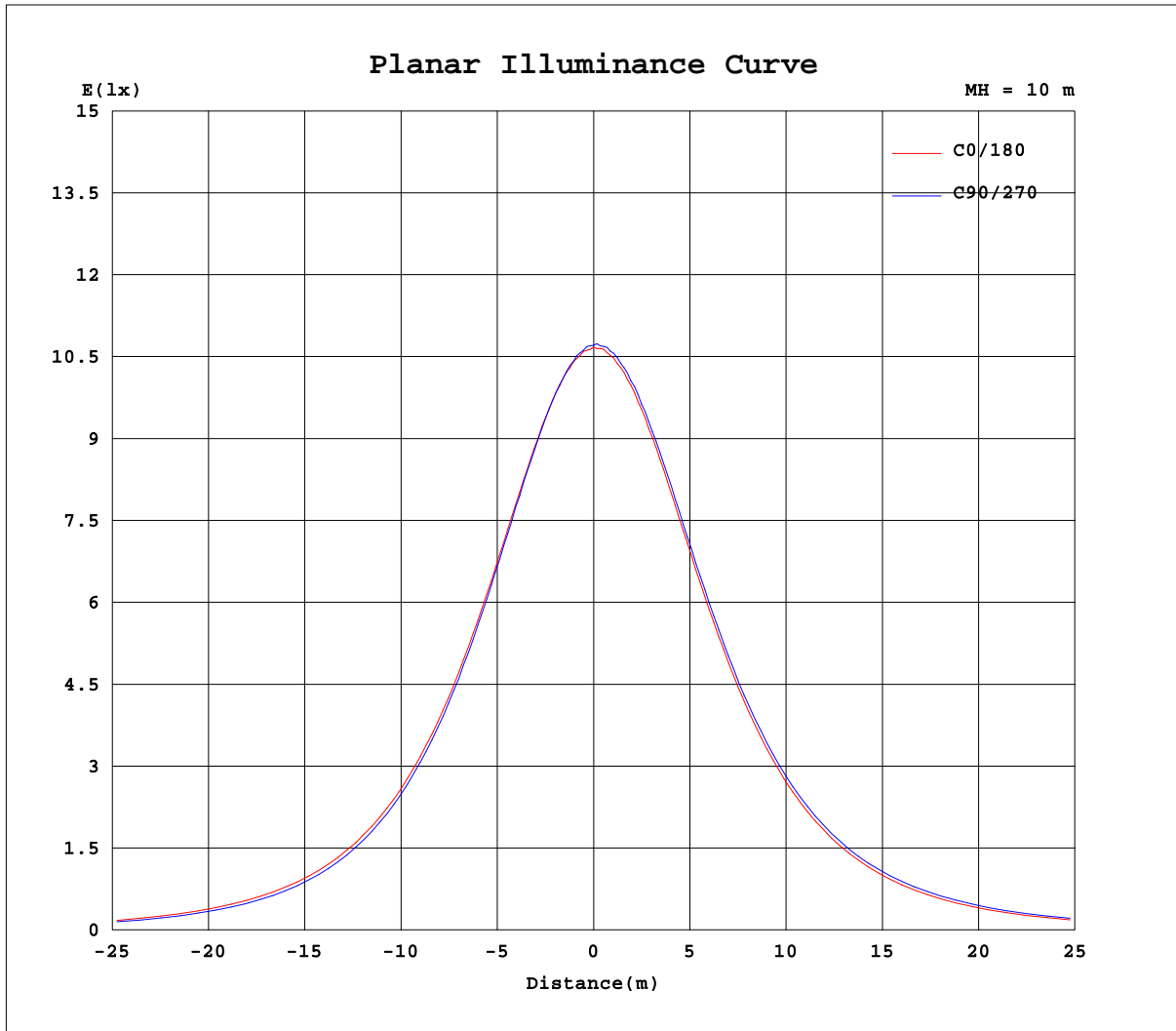
AvgL	cd/m2
L_0~180(65)av	2657
L_0~180(75)av	2270
L_0~180(85)av	1496
L_90~270(65)av	2654
L_90~270(75)av	2295
L_90~270(85)av	1852
L_45(65)av	2663
L_45(75)av	2290
L_45(85)av	1722

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:28DEG  
 Operators:  
 Test Date:2024-03-16

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.401  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

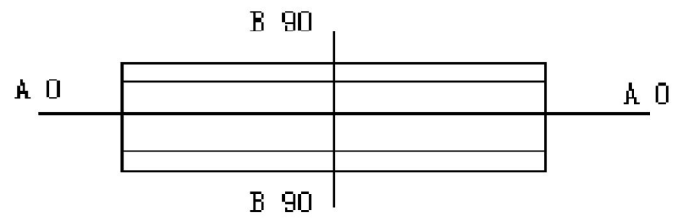
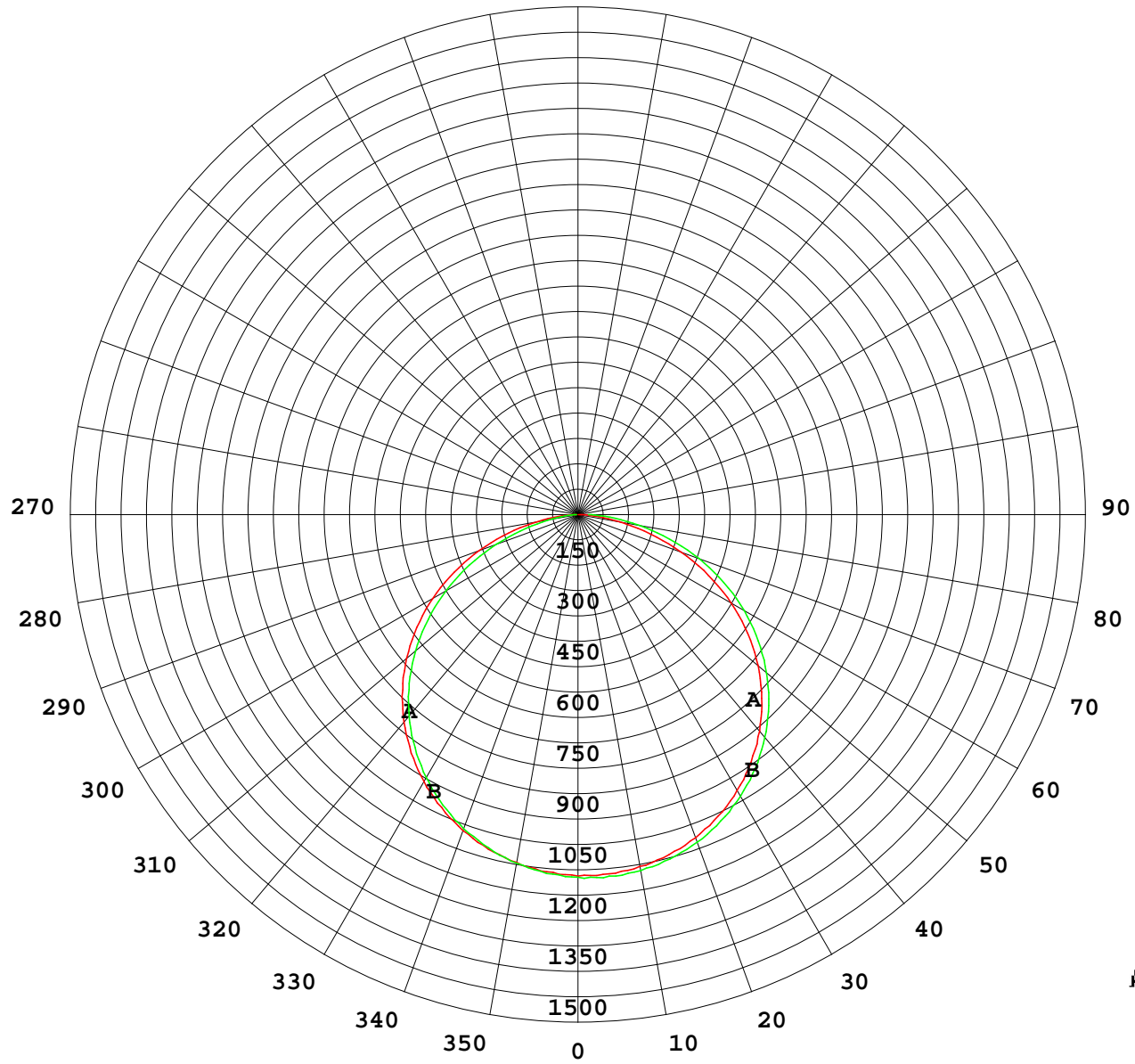
Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 28DEG  
Operators:  
Test Date: 2024-03-16

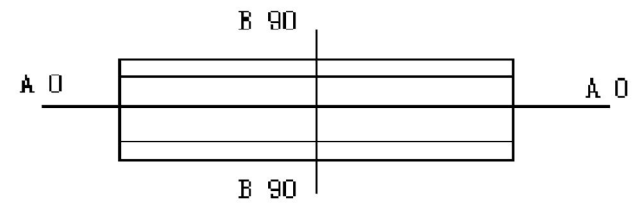
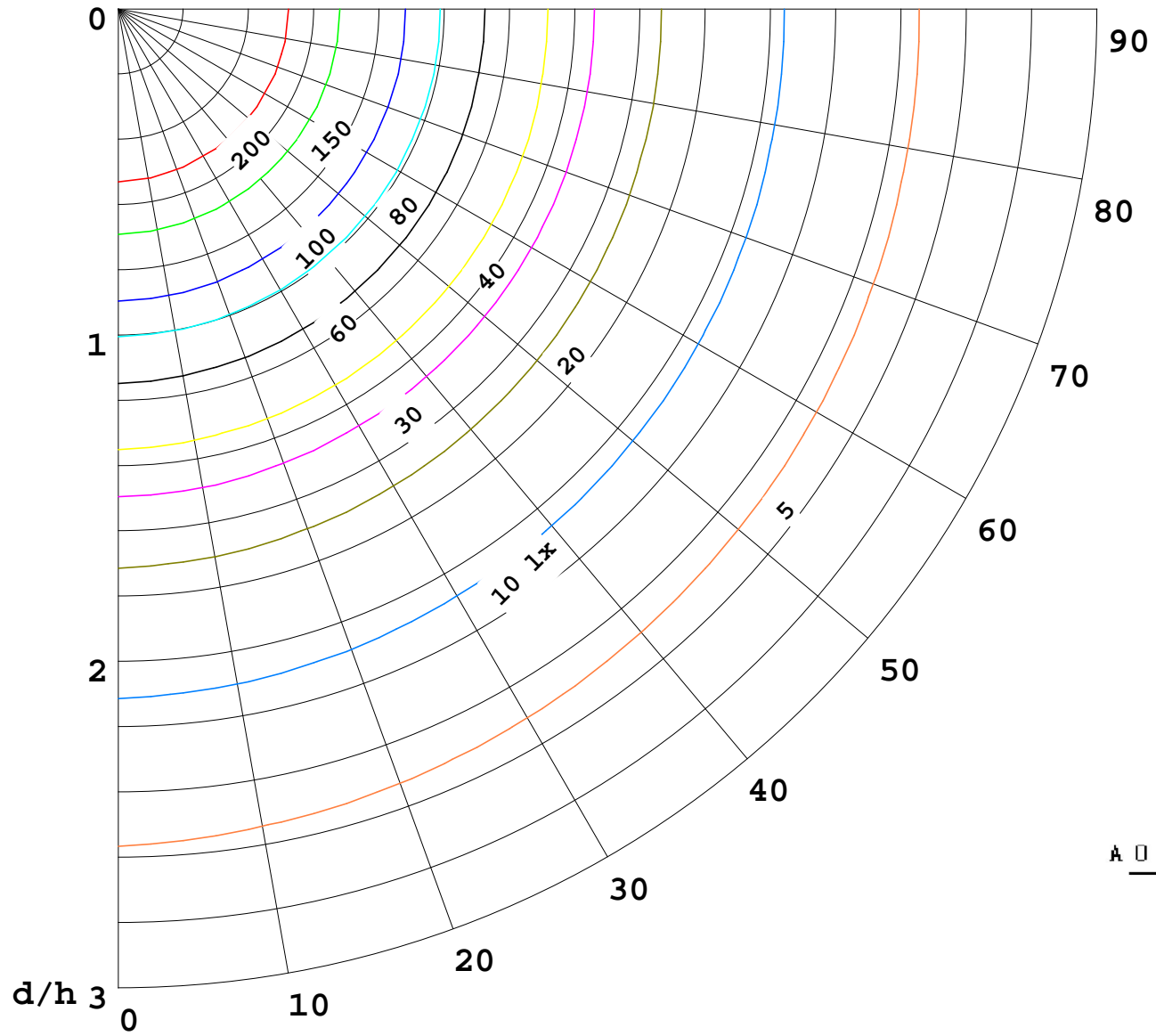
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.401  
Humidity: 65.0%  
Test Distance: 8.000m [K=1.0000]  
Remarks:

I (cd)



1000 lm

$K = 1$



**F** = 1000 lm  
**K** = 0.7  
**Hcc** = 0.8 m  
**Hfc** = 0.0 m  
**Eave** = 100 lx

	Pcc	Pw	Pfc
—	70	50	30
—	50	30	20

