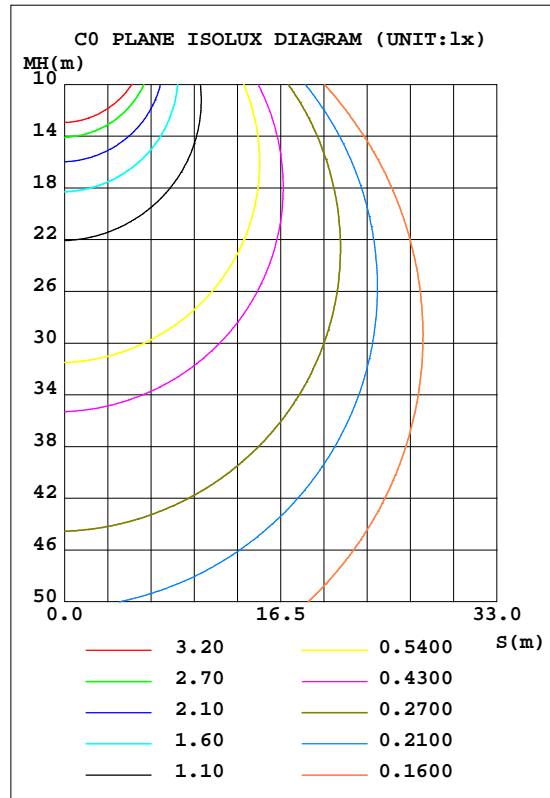
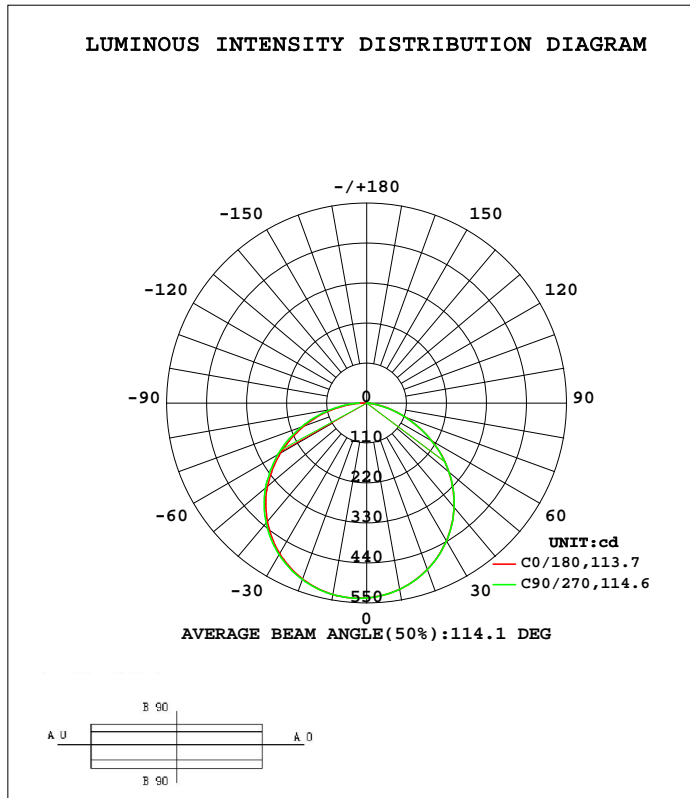


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.45V I:0.1412A P:13.857W PF:0.4258 Freq:50.00Hz Lamp Flux:1564.2lx1 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: 112.88 lm/W			
MOMENTUM 35176-ML-SWW-22W-10mm		I _{max} (cd)	538.4	S/MH(C0/180)	1.32
NOMINAL POWER(W)	22	LOR(%)	100.0	S/MH(C90/270)	1.33
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1564.2	η UP, DN(C0-180)	0.0,45.0
NOMINAL FLUX(lm)	1564.21	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,55.0
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

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	520.1	517.7	520.3	526.9	534.6	536.8	535.1	529.2	0- 10	50.77	50.77	3.25,3.25
20	487.3	482.9	487.6	499.8	515.3	520.2	516.9	504.7	10- 20	145.9	196.7	12.6,12.6
30	438.4	431.9	438.8	455.6	478.5	486.3	482.0	463.6	20- 30	222.5	419.2	26.8,26.8
40	374.1	366.1	374.3	395.5	425.2	435.8	430.4	406.7	30- 40	270.3	689.5	44.1,44.1
50	295.8	284.9	295.8	319.4	356.4	369.7	364.0	335.0	40- 50	282.2	971.7	62.1,62.1
60	205.9	194.5	206.2	232.4	273.4	289.7	281.5	251.0	50- 60	255.4	1227	78.4,78.4
70	112.9	101.4	111.8	139.3	182.0	198.2	190.5	157.6	60- 70	193.6	1421	90.8,90.8
80	31.55	25.07	30.16	51.53	88.93	104.6	96.73	69.24	70- 80	110.3	1531	97.9,97.9
90	1.194	1.415	1.636	1.817	1.275	21.46	20.69	10.55	80- 90	33.37	1564	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): 831.48 lm

%lum = 53.2%
%lamp = 53.2%

Conical surface Flux(120deg): 1227 lm

%lum = 78.4%
%lamp = 78.4%

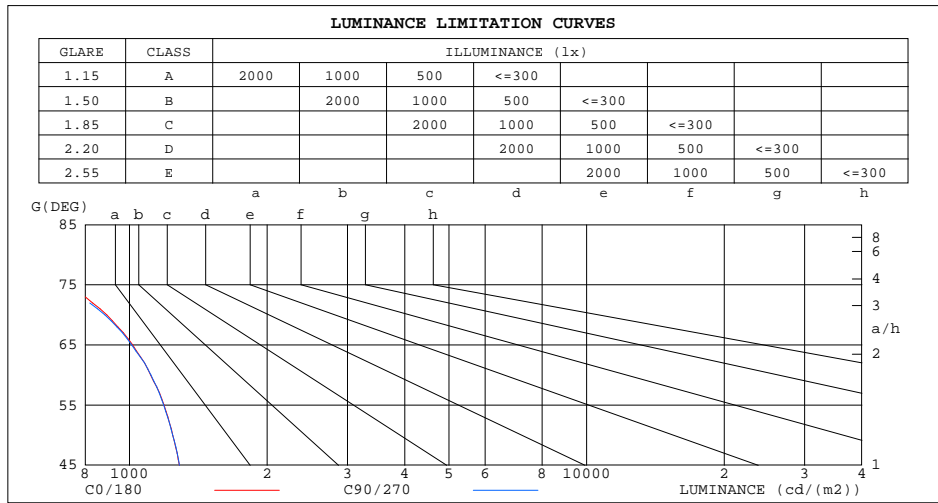
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:28DEG
Operators:
Test Date:2024-03-16

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

LUMINANCE LIMITATION CURVES

Test:U:230.45V I:0.1412A P:13.857W PF:0.4258 Freq:50.00Hz Lamp Flux:1564.21x1 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	239	240
80	491	469
75	728	706
70	892	884
65	1016	1012
60	1113	1115
55	1190	1189
50	1244	1244
45	1286	1287

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

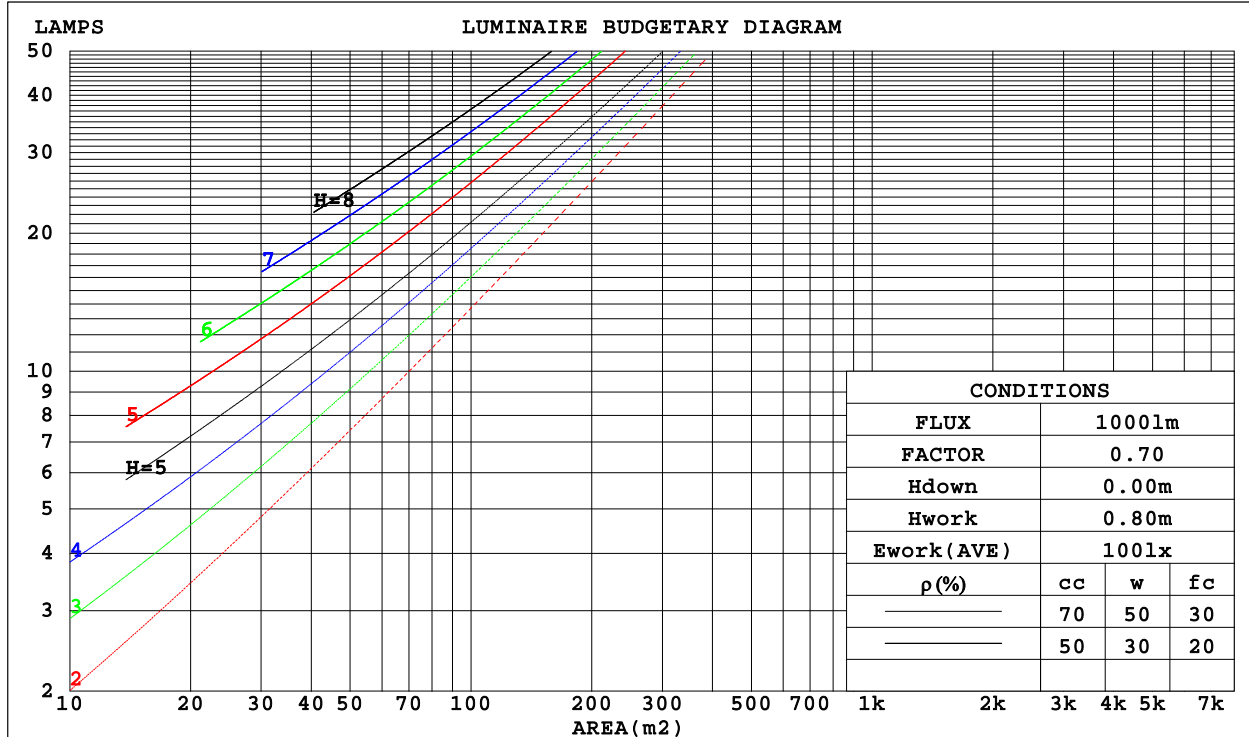
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.45V I:0.1412A P:13.857W PF:0.4258 Freq:50.00Hz Lamp Flux:1564.21x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:3000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	.91	.88	.90	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.58	.52	.62	.56	.52	.50
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.51	.45	.55	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.35	.47	.40	.35	.46	.40	.35	.33
8.0	.46	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.28	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



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

WEC AND CCEC

Test:U:230.45V I:0.1412A P:13.857W PF:0.4258 Freq:50.00Hz Lamp Flux:1564.2lx1 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	.313	.178	.056	.306	.175	.055	.293	.168	.054	.281	.162	.052	.269	.156	.050	
2.0	.294	.161	.049	.288	.158	.049	.276	.153	.048	.265	.149	.047	.255	.144	.045	
3.0	.272	.145	.043	.266	.143	.043	.256	.139	.042	.246	.135	.041	.237	.131	.041	
4.0	.250	.130	.038	.246	.129	.038	.236	.125	.037	.228	.122	.037	.220	.120	.036	
5.0	.231	.118	.034	.227	.117	.034	.219	.114	.034	.211	.112	.033	.204	.109	.033	
6.0	.215	.108	.031	.211	.106	.031	.203	.104	.030	.197	.102	.030	.190	.100	.030	
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027	
8.0	.186	.091	.026	.183	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.084	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.021	

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	.154	.134	.115	.106	.092	.080	.061	.053	.046	.019	.017	.015	
2.0	.173	.132	.098	.148	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.050	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.010	.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	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.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:230.45V I:0.1412A P:13.857W PF:0.4258 Freq:50.00Hz Lamp Flux:1564.2lx1 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	12.9	14.4	13.1	14.6	14.8	12.9	14.4	13.1	14.6	14.8
3H	14.1	15.5	14.4	15.7	15.9	14.0	15.5	14.3	15.7	15.9
4H	14.4	15.8	14.7	16.0	16.3	14.4	15.8	14.7	16.0	16.3
6H	14.6	15.9	14.9	16.1	16.4	14.5	15.8	14.9	16.1	16.4
8H	14.6	15.8	14.9	16.1	16.4	14.5	15.8	14.9	16.1	16.3
12H	14.6	15.7	14.9	16.0	16.3	14.5	15.7	14.9	16.0	16.3
4H 2H	13.3	14.7	13.6	14.9	15.2	13.3	14.7	13.6	14.9	15.2
3H	14.7	15.8	15.0	16.1	16.4	14.6	15.8	15.0	16.1	16.4
4H	15.1	16.2	15.5	16.5	16.9	15.1	16.2	15.5	16.5	16.8
6H	15.3	16.3	15.7	16.7	17.0	15.3	16.3	15.7	16.6	17.0
8H	15.4	16.3	15.8	16.6	17.0	15.3	16.2	15.7	16.6	17.0
12H	15.4	16.2	15.8	16.6	17.0	15.3	16.1	15.7	16.5	16.9
8H 4H	15.2	16.1	15.6	16.5	16.9	15.2	16.1	15.6	16.4	16.8
6H	15.5	16.2	15.9	16.7	17.1	15.5	16.2	15.9	16.6	17.0
8H	15.6	16.2	16.0	16.6	17.1	15.5	16.2	16.0	16.6	17.0
12H	15.6	16.1	16.0	16.6	17.1	15.5	16.1	16.0	16.5	17.0
12H 4H	15.2	16.0	15.6	16.4	16.8	15.2	16.0	15.6	16.4	16.8
6H	15.5	16.2	16.0	16.6	17.0	15.4	16.1	15.9	16.5	17.0
8H	15.6	16.1	16.0	16.6	17.0	15.5	16.1	16.0	16.5	17.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4				

CIE Pub.117, 1564 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.6)

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:230.45V I:0.1412A P:13.857W PF:0.4258 Freq:50.00Hz Lamp Flux:1564.2lx1 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	46	38	56	45	38	55	45	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	65	57	74	64	57	72	65	56	49
1.25	83	72	65	81	72	65	79	70	64	56
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	97	89	84	93	87	82	74
3.00	102	95	90	100	94	88	96	91	86	78
4.00	106	100	96	104	99	94	99	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

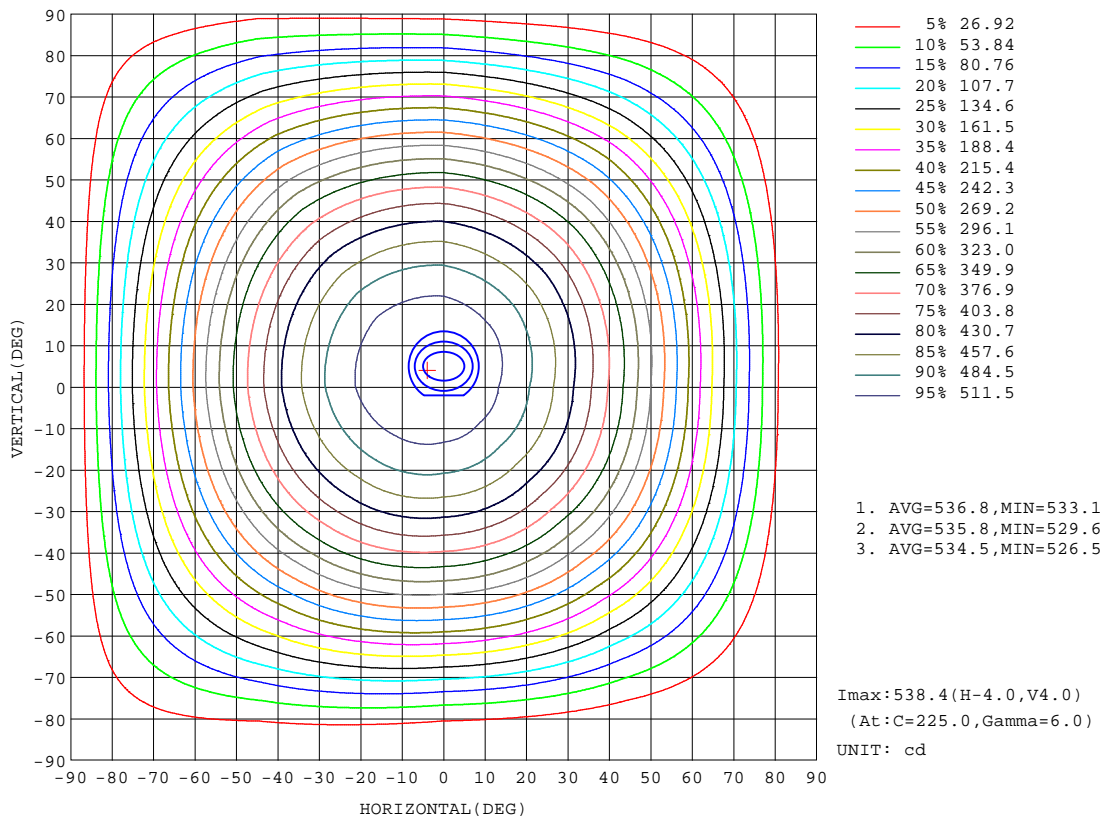
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:
 Test Date:2024-03-16

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:230.45V I:0.1412A P:13.857W PF:0.4258 Freq:50.00Hz Lamp Flux:1564.2lx1 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

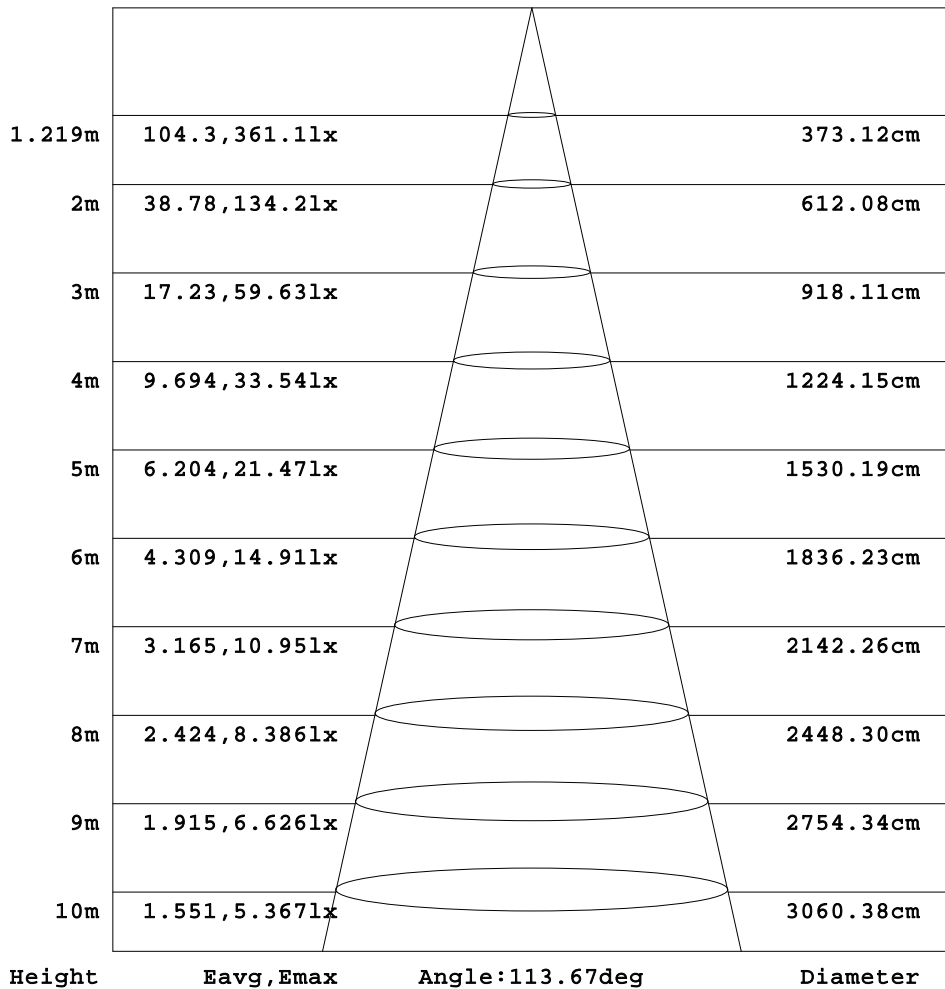
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:230.45V I:0.1412A P:13.857W PF:0.4258 Freq:50.00Hz Lamp Flux:1564.21x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:3000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	Shielding Angle:

Flux out:1155 lm



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

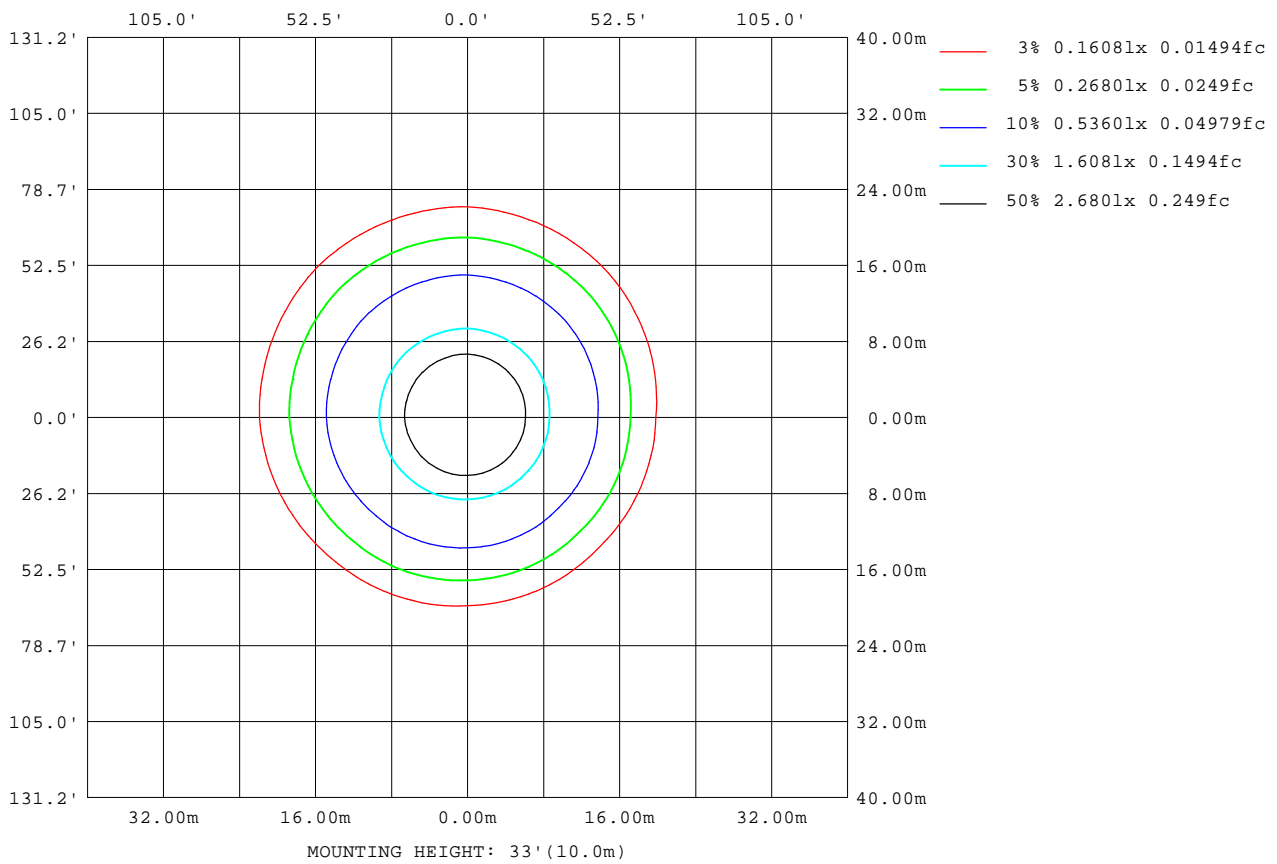
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:
 Test Date:2024-03-16

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:230.45V I:0.1412A P:13.857W PF:0.4258 Freq:50.00Hz Lamp Flux:1564.2lx1 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

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

LED Avg.L Report

Test:U:230.45V I:0.1412A P:13.857W PF:0.4258 Freq:50.00Hz Lamp Flux:1564.2lx1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:3000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	Shielding Angle:

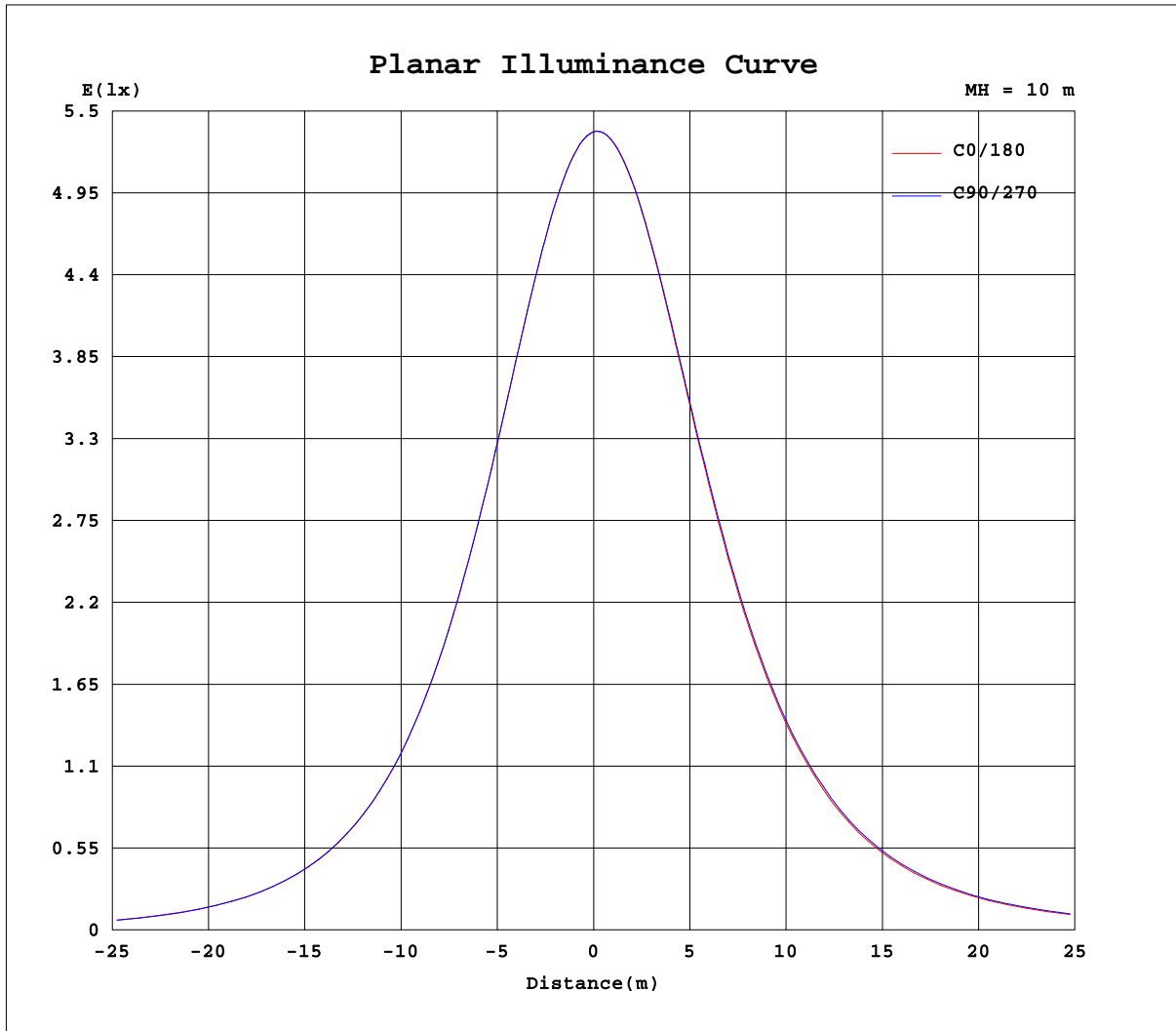
AvgL	cd/m2
L_0~180(65)av	1238
L_0~180(75)av	1074
L_0~180(85)av	796
L_90~270(65)av	1264
L_90~270(75)av	1100
L_90~270(85)av	961
L_45(65)av	1252
L_45(75)av	1086
L_45(85)av	893

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:

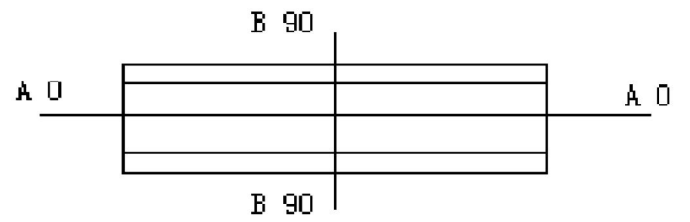
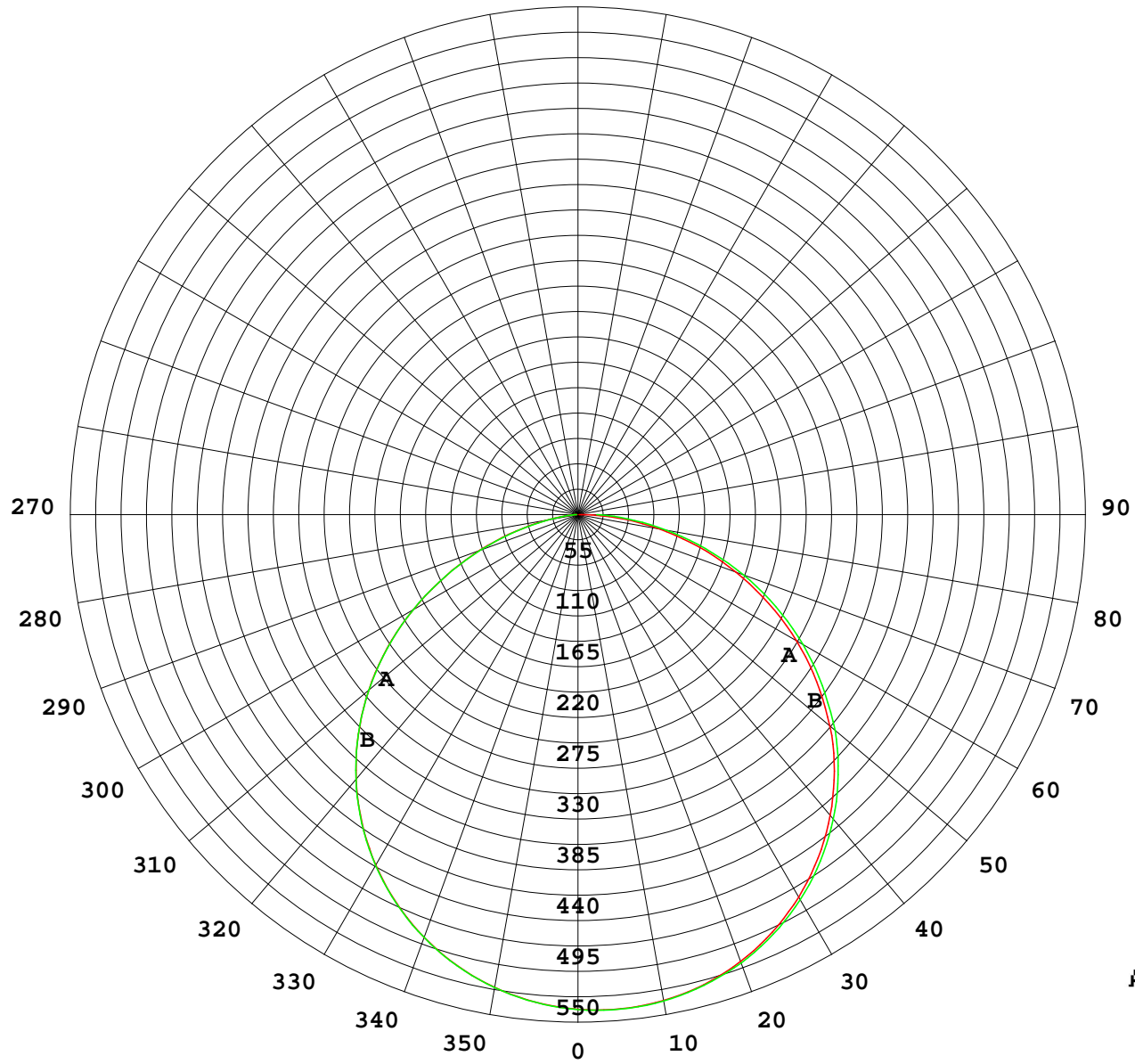
Planar Illuminance Curve



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

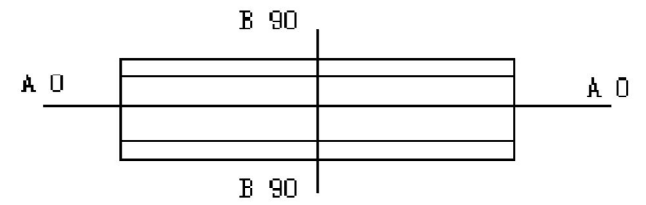
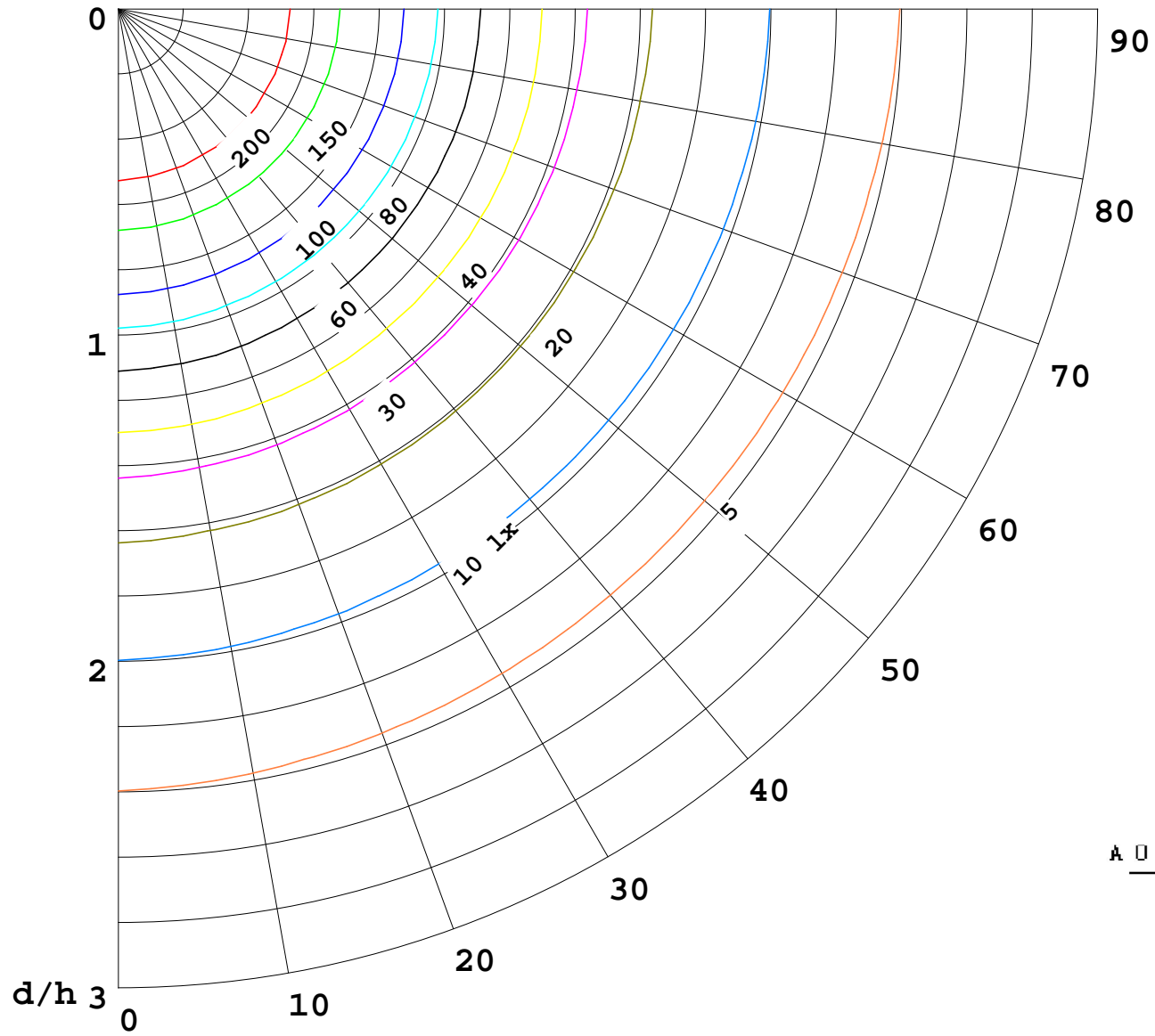
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks:

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

