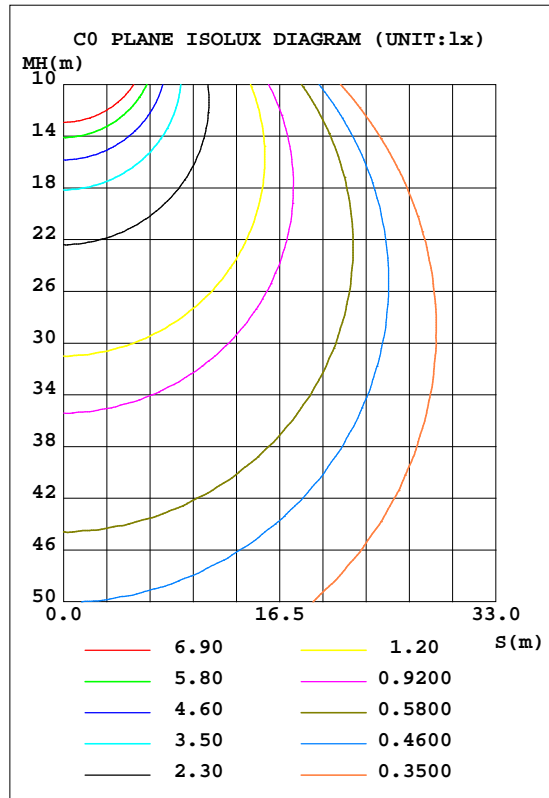
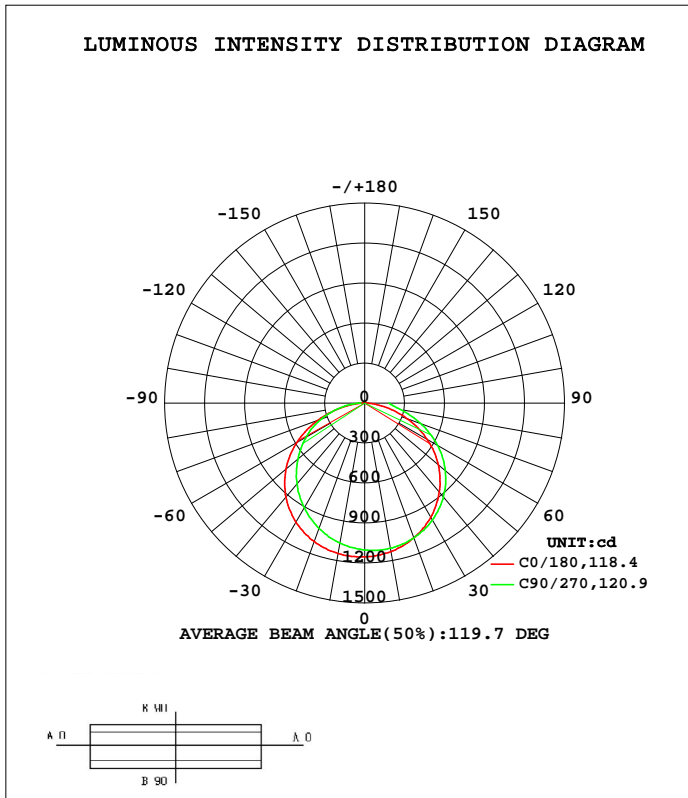


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.47V I:0.3170A P:29.623W PF:0.4054 Freq:50.00Hz Lamp Flux:3515.0lx1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:4000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 118.66 lm/W			
MODEL	YM2835240-ML-NW-22W	I _{max} (cd)	1156	S/MH(C0/180)	1.33
NOMINAL POWER(W)	22	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3515.0	η UP, DN(C0-180)	0.0,52.4
NOMINAL FLUX(lm)	3515.01	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,47.6
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	1132	1127	1106	1083	1147	1131	1067	1027	0- 10	105.9	105.9	3.01,3.01
20	1078	1075	1078	1059	1105	1088	1002	953.9	10- 20	305.8	411.7	11.7,11.7
30	990.1	994.6	1014	1006	1033	1007	907.0	863.1	20- 30	470.3	882.0	25.1,25.1
40	873.4	878.6	919.0	913.2	919.5	892.3	791.4	744.5	30- 40	579.2	1461	41.6,41.6
50	720.6	735.7	790.8	786.8	771.5	743.1	654.6	606.0	40- 50	617.2	2078	59.1,59.1
60	540.3	558.7	629.8	623.1	586.7	559.3	504.8	449.9	50- 60	575.8	2654	75.5,75.5
70	336.9	358.5	445.7	433.8	370.2	354.4	341.4	290.1	60- 70	458.4	3113	88.6,88.6
80	130.3	161.3	268.5	244.3	148.5	158.5	168.7	138.2	70- 80	284.4	3397	96.6,96.6
90	3.203	47.06	182.4	143.7	4.979	21.00	28.29	24.42	80- 90	118.1	3515	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): 1769.8 lm

%lum = 50.4%
 %lamp = 50.4%

Conical surface Flux(120deg): 2654.1 lm

%lum = 75.5%
 %lamp = 75.5%

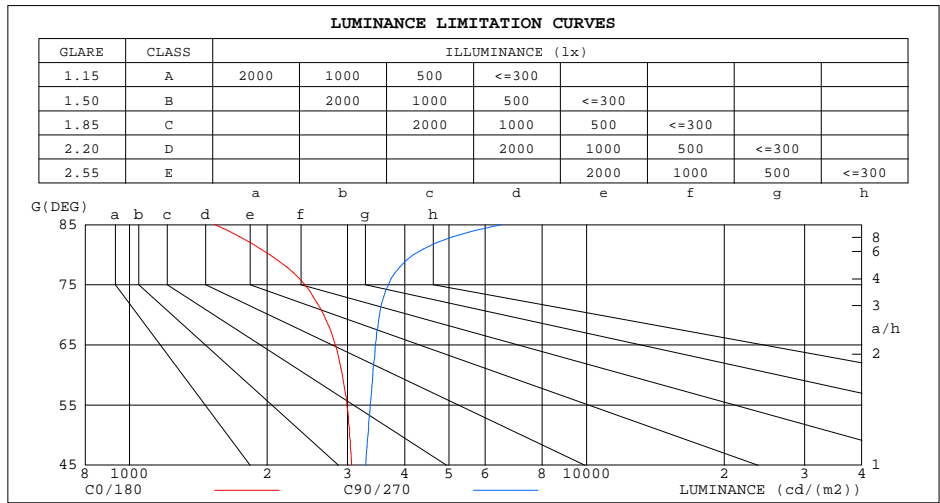
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:
 Test Date:2024-03-16

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:230.47V I:0.3170A P:29.623W PF:0.4054 Freq:50.00Hz Lamp Flux:3515.01x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:4000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1536	6521
80	2028	4179
75	2420	3684
70	2662	3522
65	2820	3450
60	2921	3404
55	2991	3361
50	3030	3325
45	3061	3288

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

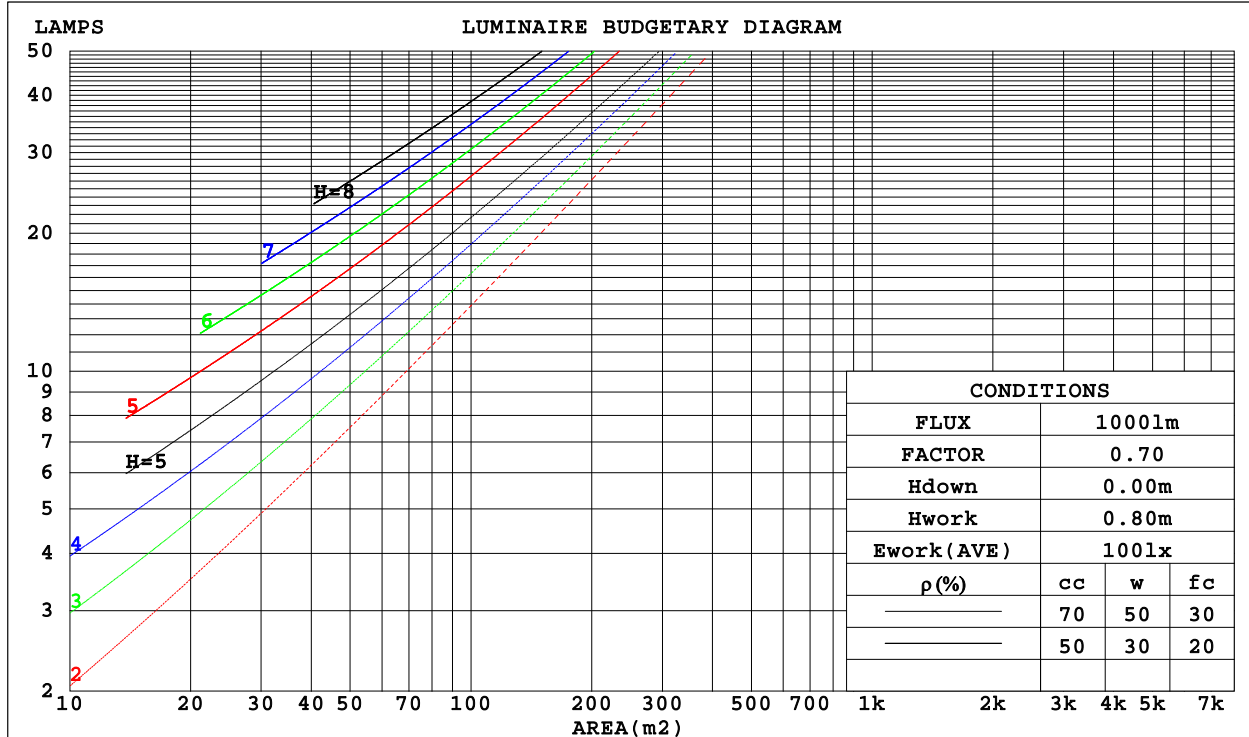
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.47V I:0.3170A P:29.623W PF:0.4054 Freq:50.00Hz Lamp Flux:3515.01x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:4000K	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	1.03	.98	.94	1.00	.96	.92	.96	.93	.89	.92	.89	.87	.88	.86	.84	.82
2.0	.89	.82	.76	.87	.80	.75	.83	.78	.73	.80	.75	.71	.77	.73	.70	.67
3.0	.78	.69	.62	.76	.68	.62	.73	.66	.61	.70	.64	.59	.68	.63	.58	.56
4.0	.68	.59	.52	.67	.59	.52	.65	.57	.51	.62	.56	.50	.60	.54	.50	.48
5.0	.61	.52	.45	.60	.51	.45	.58	.50	.44	.56	.49	.44	.54	.48	.43	.41
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.49	.42	.38	.36
7.0	.50	.41	.34	.49	.40	.34	.47	.39	.34	.46	.39	.34	.44	.38	.33	.31
8.0	.45	.36	.30	.44	.36	.30	.43	.36	.30	.42	.35	.30	.41	.34	.30	.28
9.0	.41	.33	.27	.41	.33	.27	.40	.32	.27	.39	.32	.27	.37	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.29	.24	.36	.29	.24	.35	.29	.24	.22



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:230.47V I:0.3170A P:29.623W PF:0.4054 Freq:50.00Hz Lamp Flux:3515.01x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:4000K	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.334	.190	.060	.327	.186	.059	.313	.180	.057	.301	.174	.056	.289	.168	.054	
2.0	.307	.168	.052	.301	.166	.051	.289	.161	.050	.278	.156	.049	.268	.152	.048	
3.0	.281	.150	.045	.276	.148	.044	.265	.144	.044	.256	.140	.043	.247	.136	.042	
4.0	.258	.134	.039	.253	.132	.039	.244	.129	.039	.235	.126	.038	.227	.123	.038	
5.0	.237	.121	.035	.233	.119	.035	.225	.117	.034	.217	.114	.034	.210	.112	.034	
6.0	.219	.110	.031	.215	.109	.031	.208	.107	.031	.201	.104	.031	.195	.102	.030	
7.0	.203	.101	.028	.200	.100	.028	.193	.098	.028	.187	.096	.028	.181	.094	.028	
8.0	.189	.093	.026	.186	.092	.026	.180	.090	.026	.175	.089	.026	.170	.087	.025	
9.0	.177	.086	.024	.174	.085	.024	.169	.084	.024	.164	.082	.024	.160	.081	.023	
10.0	.166	.080	.022	.164	.079	.022	.159	.078	.022	.155	.077	.022	.150	.076	.022	

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						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	.106	.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	.136	.087	.050	.094	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.151	.091	.046	.130	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.144	.083	.038	.124	.071	.033	.085	.050	.024	.050	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.028	.081	.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	.118	.061	.022	.102	.053	.019	.071	.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:230.47V I:0.3170A P:29.623W PF:0.4054 Freq:50.00Hz Lamp Flux:3515.01x1 lm										
NAME: LED灯带					TYPE:2835			WEIGHT:		
SPEC.:4000K					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	16.7	18.3	17.0	18.5	18.7	17.3	18.8	17.5	19.0	19.2
3H	18.3	19.7	18.6	20.0	20.2	19.2	20.6	19.5	20.8	21.1
4H	18.9	20.2	19.2	20.5	20.8	20.0	21.4	20.4	21.7	21.9
6H	19.2	20.6	19.6	20.8	21.1	20.9	22.2	21.2	22.5	22.8
8H	19.4	20.6	19.7	20.9	21.2	21.3	22.6	21.7	22.9	23.2
12H	19.4	20.6	19.8	20.9	21.2	21.8	23.1	22.2	23.4	23.7
4H 2H	17.4	18.8	17.7	19.0	19.3	17.8	19.2	18.1	19.5	19.7
3H	19.1	20.4	19.5	20.6	21.0	19.9	21.1	20.2	21.4	21.7
4H	19.9	21.0	20.2	21.3	21.6	20.9	22.0	21.3	22.3	22.7
6H	20.4	21.4	20.8	21.7	22.1	21.9	22.9	22.3	23.3	23.6
8H	20.5	21.4	20.9	21.8	22.2	22.4	23.4	22.9	23.7	24.1
12H	20.6	21.5	21.0	21.9	22.3	23.1	23.9	23.5	24.3	24.7
8H 4H	20.2	21.1	20.6	21.5	21.9	21.1	22.1	21.5	22.4	22.8
6H	20.9	21.6	21.3	22.0	22.5	22.3	23.1	22.7	23.5	23.9
8H	21.1	21.8	21.6	22.2	22.7	23.0	23.7	23.4	24.1	24.5
12H	21.3	21.9	21.8	22.3	22.8	23.8	24.4	24.3	24.8	25.3
12H 4H	20.2	21.1	20.7	21.5	21.9	21.1	22.0	21.6	22.4	22.8
6H	21.0	21.7	21.4	22.1	22.5	22.3	23.0	22.8	23.5	23.9
8H	21.3	21.9	21.7	22.3	22.8	23.1	23.7	23.5	24.1	24.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 3515 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.4)

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

UTILIZATION FACTORS TABLE

Test:U:230.47V I:0.3170A P:29.623W PF:0.4054 Freq:50.00Hz Lamp Flux:3515.01x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:4000K	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	56	44	37	55	44	37	54	43	36	30
0.80	66	54	46	65	53	46	63	53	46	38
1.00	74	63	55	73	62	55	71	64	54	47
1.25	81	70	63	80	70	62	77	68	62	54
1.50	86	76	69	85	75	68	82	73	67	59
2.00	93	84	78	92	83	77	88	81	75	67
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	94	88	99	92	87	95	89	84	76
4.00	105	99	94	103	97	93	98	94	90	81
5.00	108	102	98	105	101	97	101	97	93	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

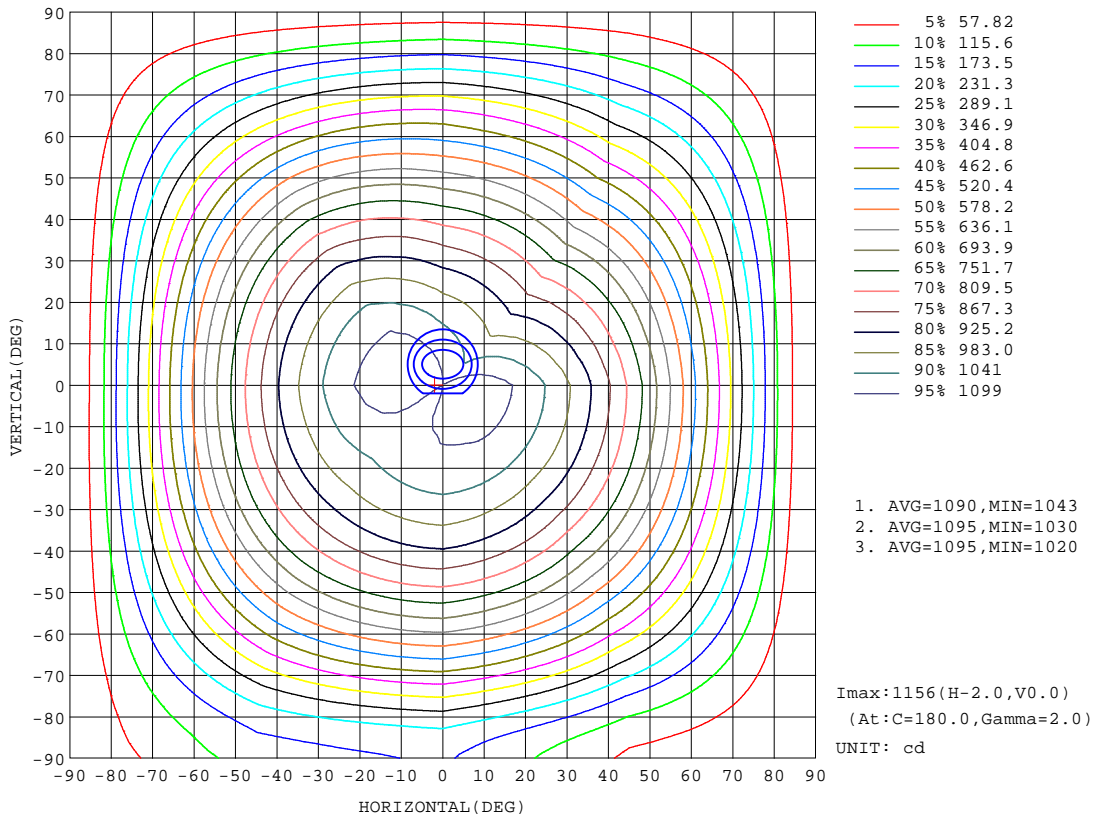
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:
 Test Date:2024-03-16

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:230.47V I:0.3170A P:29.623W PF:0.4054 Freq:50.00Hz Lamp Flux:3515.01x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:4000K	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

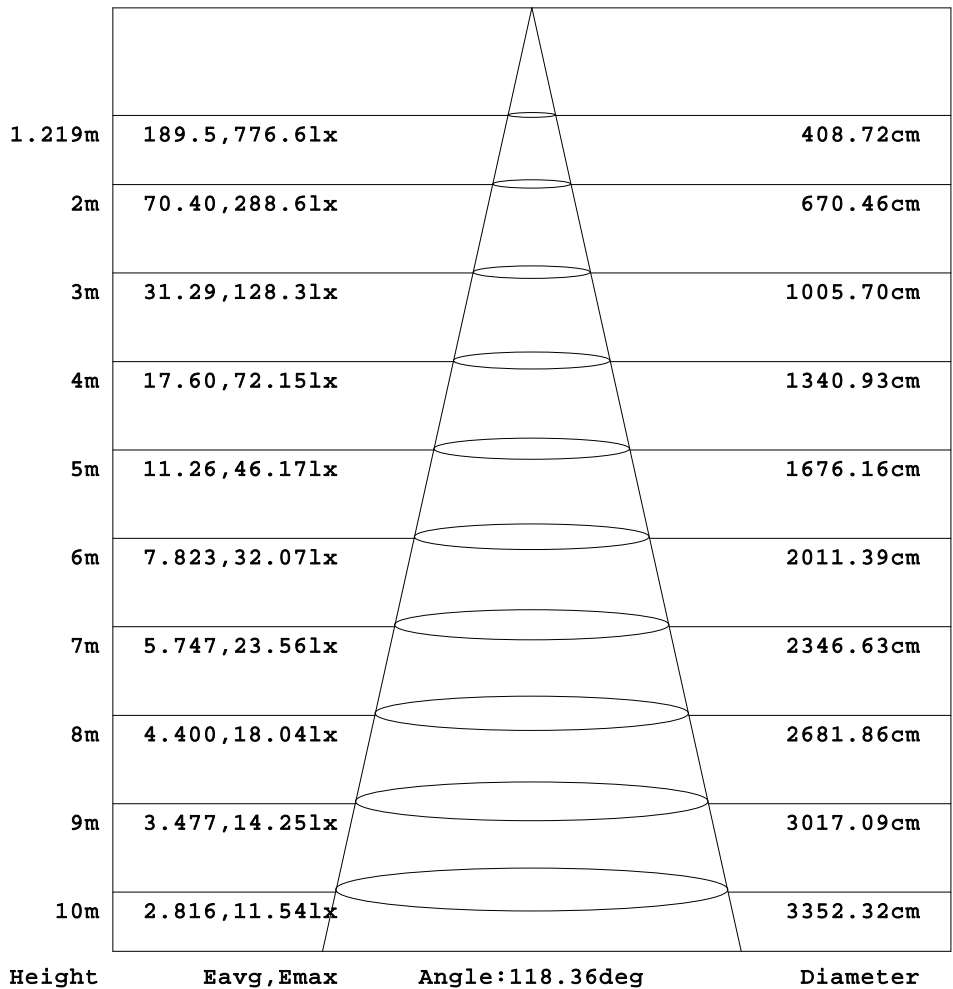
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:230.47V I:0.3170A P:29.623W PF:0.4054 Freq:50.00Hz Lamp Flux:3515.01x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:4000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	Shielding Angle:

Flux out:2654 lm



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

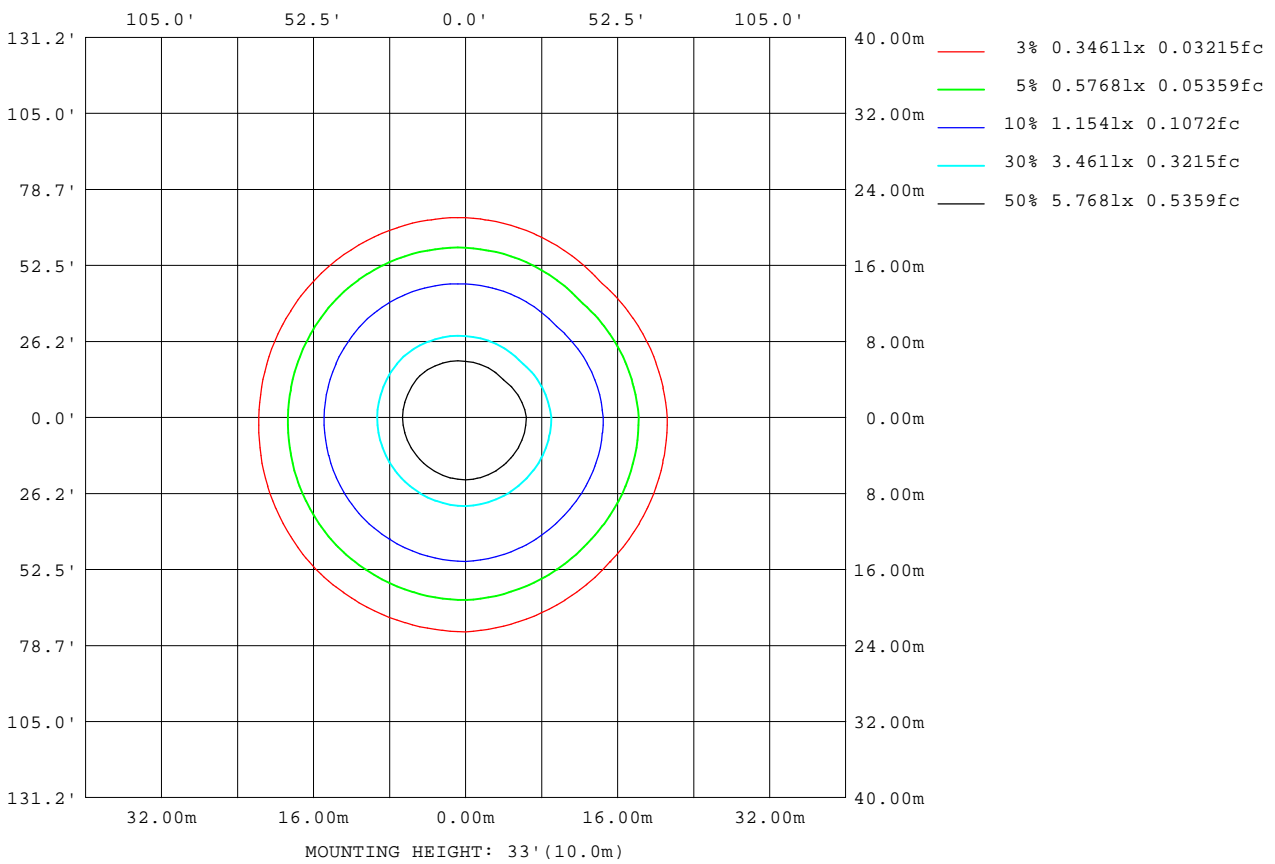
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:
 Test Date:2024-03-16

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:230.47V I:0.3170A P:29.623W PF:0.4054 Freq:50.00Hz Lamp Flux:3515.01x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:4000K	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:230.47V I:0.3170A P:29.623W PF:0.4054 Freq:50.00Hz Lamp Flux:3515.01x1 lm		
NAME: LED灯带	TYPE:2835	WEIGHT:
SPEC.:4000K	DIM.: 500*10MM 1M	SERIAL No.:
MFR.:	SUR.:0.32	Shielding Angle:

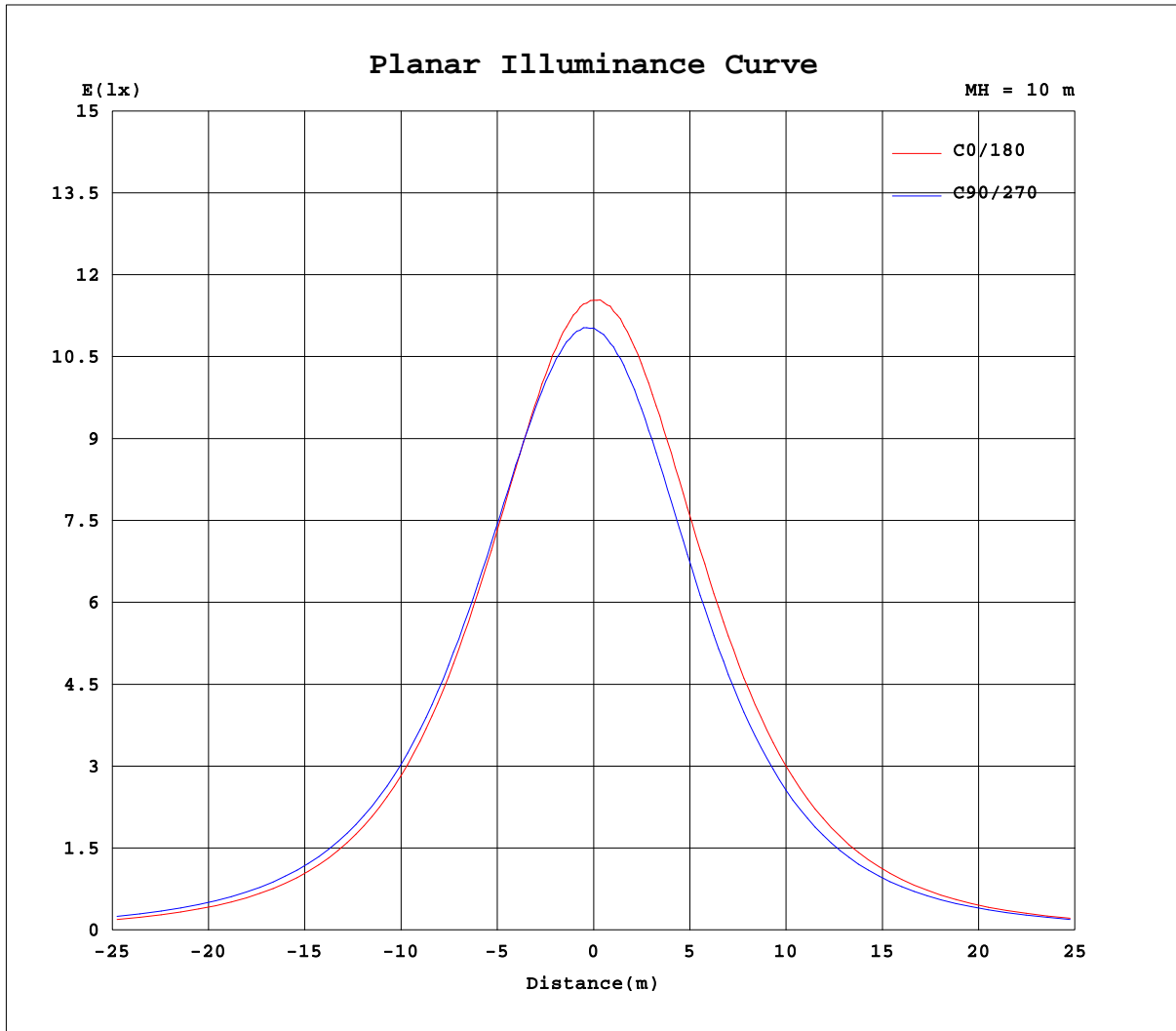
AvgL	cd/m2
L_0~180(65)av	2946
L_0~180(75)av	2540
L_0~180(85)av	1714
L_90~270(65)av	3094
L_90~270(75)av	3167
L_90~270(85)av	4695
L_45(65)av	2913
L_45(75)av	2753
L_45(85)av	3232

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:

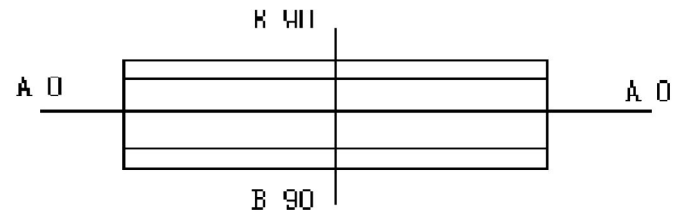
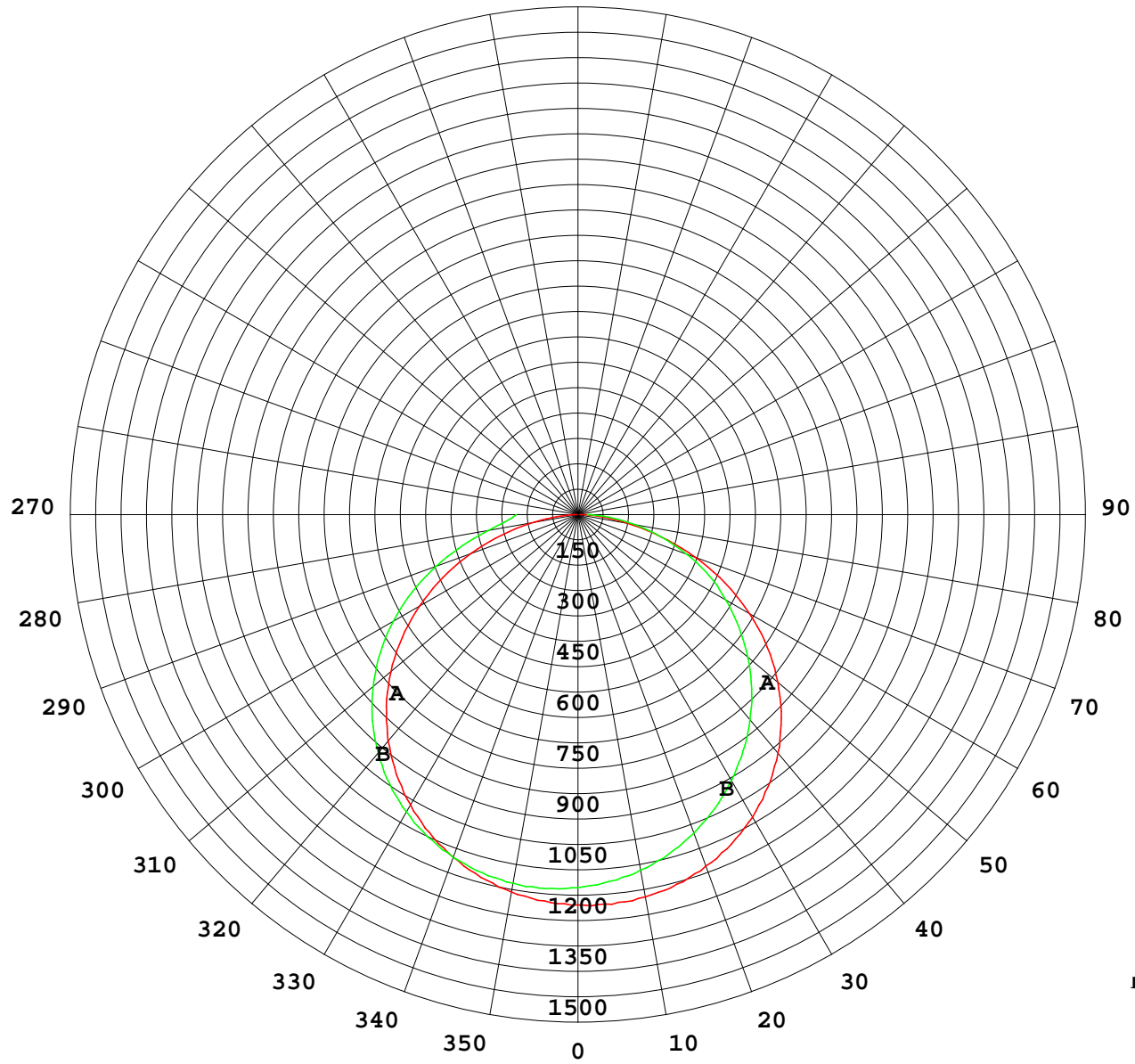
Planar Illuminance Curve



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

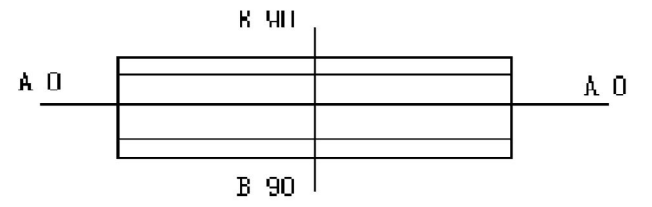
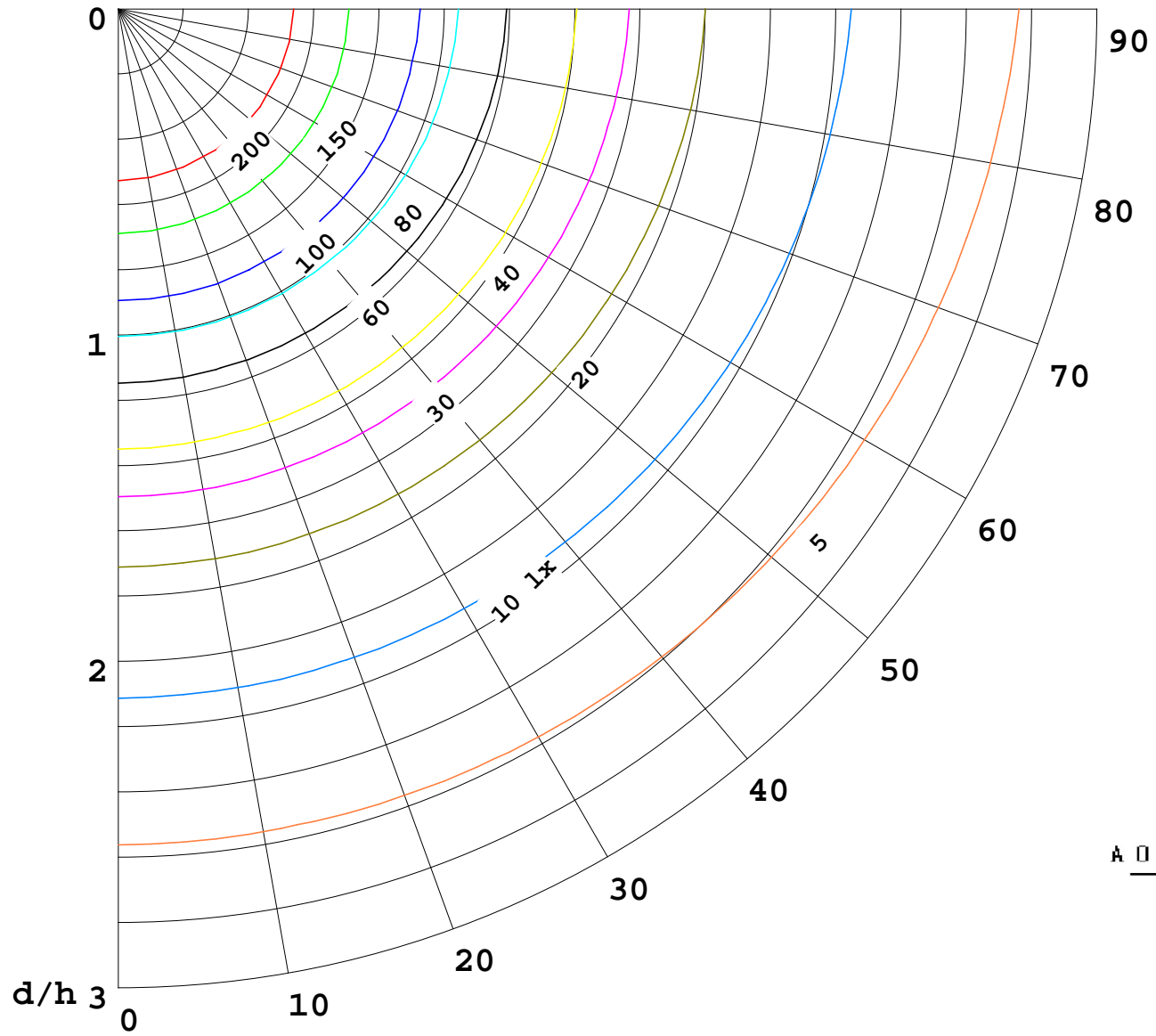
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks:

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

