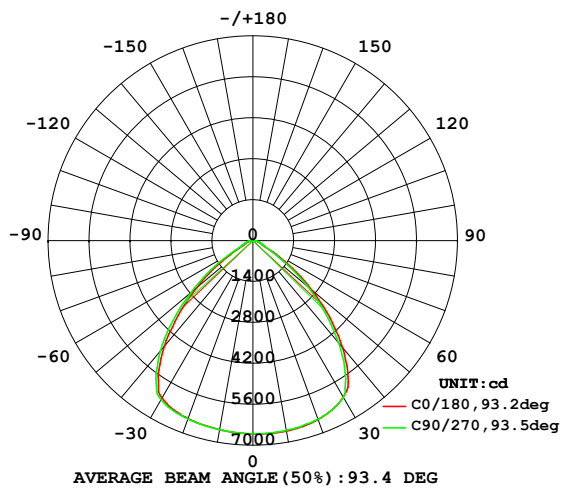


LUMINAIRE PHOTOMETRIC TEST REPORT

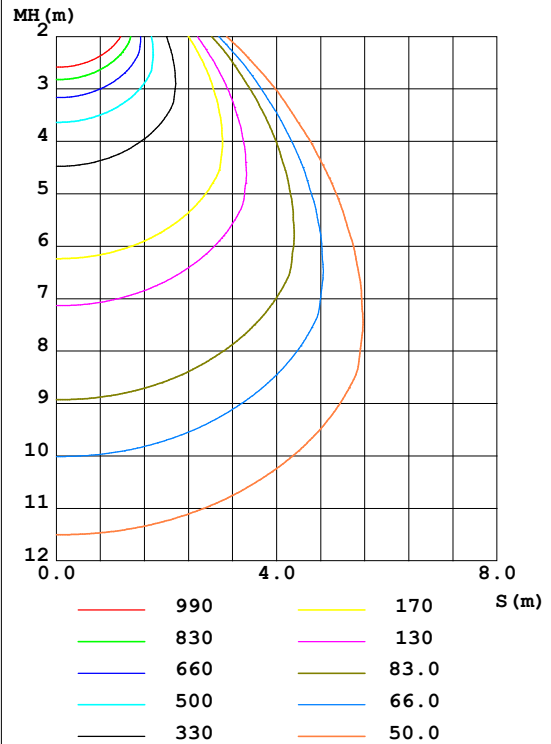
Test:U:277.1V I:0.3762A P:101.5W PF:0.9735 Lamp Flux:13855.6x1 lm		
NAME: LM-100W	TYPE:glass+90°AL cover	WEIGHT:4.762kg
SPEC.:5000k R80 264L	DIM.: D430mm*329mm	SERIAL No.:
MFR.:	SUR.:0.215m*0.215m*3.14	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 136.54 lm/W			
MODEL	SMD3030 (757G P20D41)	Imax(cd)	6623	S/MH(C0/180)	1.30
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.33
RATED VOLTAGE(V)	277	TOTAL FLUX(lm)	13856	η UP,DN(C0-180)	0.0,49.4
NOMINAL FLUX(lm)	13855.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	277	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



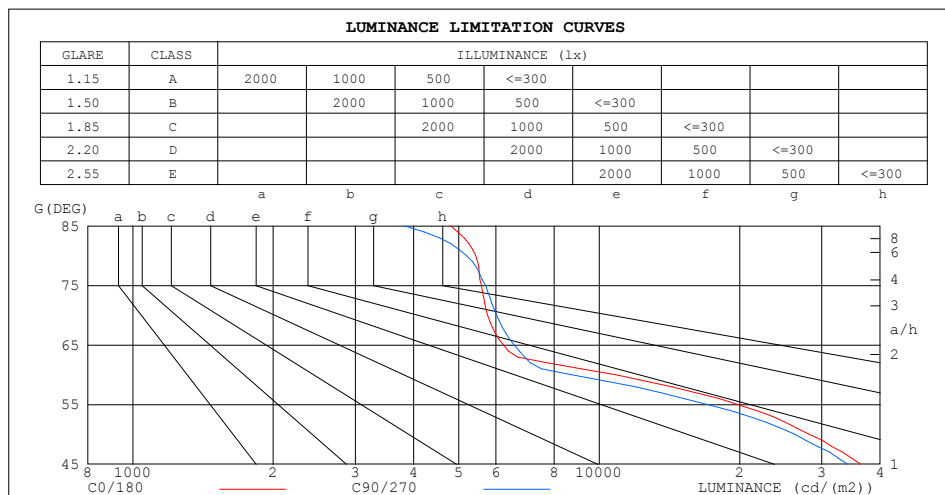
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: DEG
 Operators: guanlingao
 Test Date: 2017-12-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity: 65.0%
 Test Distance: 9.390m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	6616	6609	6588	6574	6564	6545	6565	6581	0- 10	629.4	629.4	4.54,4.54
20	6512	6513	6497	6512	6478	6449	6495	6485	10- 20	1854	2483	17.9,17.9
30	6181	6179	6190	6243	6216	6213	6286	6207	20- 30	2951	5434	39.2,39.2
40	4776	4635	4576	4649	4698	4766	4907	4805	30- 40	3495	8929	64.4,64.4
50	2626	2466	2449	2417	2509	2648	2756	2713	40- 50	2807	11736	84.7,84.7
60	786.3	677.0	632.8	612.1	659.4	731.0	851.7	809.4	50- 60	1420	13157	95,95
70	286.2	279.4	298.7	266.6	254.8	283.6	330.0	314.8	60- 70	414.9	13572	97.9,97.9
80	136.9	129.7	130.9	116.9	112.0	126.2	150.9	148.1	70- 80	220.3	13792	99.5,99.5
90	1.585	1.526	2.041	1.317	1.109	1.383	3.528	3.326	80- 90	63.78	13856	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 MAX (Ii - Iavg)/Iavg (0-135) = 100.0 %									UNIT:lm		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4798	3814
80	5432	5193
75	5592	5702
70	5764	6017
65	6238	6571
60	10835	8720
55	19743	17019
50	28141	26249
45	36330	34087

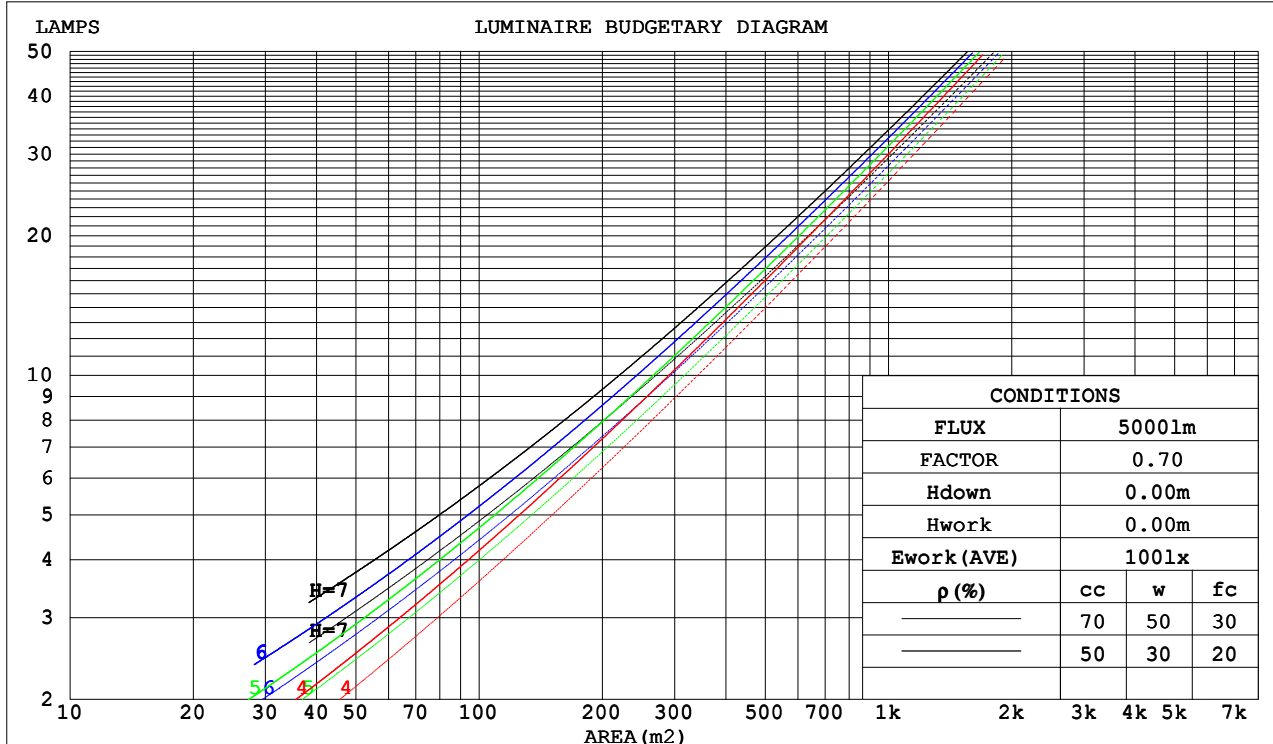
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: DEG
 Operators: guanlingao
 Test Date: 2017-12-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity: 65.0%
 Test Distance: 9.390m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:277.1V I:0.3762A P:101.5W PF:0.9735 Lamp Flux:13855.6x1 lm		
NAME: LM-100W	TYPE:glass+90°AL cover	WEIGHT:4.762kg
SPEC.:5000k R80 264L	DIM.: D430mm*329mm	SERIAL No.:
MFR.:	SUR.:0.215m*0.215m*3.14	PROTECTION 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						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	1.08	1.05	1.02	1.06	1.03	1.00	1.01	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.89	.85	.83	.86	.83	.81	.79
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.81	.76	.73	.78	.75	.72	.70
4.0	.79	.72	.67	.78	.71	.66	.76	.70	.65	.74	.69	.64	.72	.67	.64	.62
5.0	.72	.65	.59	.71	.64	.59	.69	.63	.58	.67	.62	.57	.66	.61	.57	.55
6.0	.66	.58	.52	.65	.58	.52	.63	.57	.52	.62	.56	.51	.60	.55	.51	.49
7.0	.60	.53	.47	.59	.52	.47	.58	.51	.47	.57	.51	.46	.55	.50	.46	.44
8.0	.55	.48	.43	.55	.47	.42	.53	.47	.42	.52	.46	.42	.51	.46	.42	.40
9.0	.51	.44	.39	.51	.43	.39	.49	.43	.38	.48	.42	.38	.47	.42	.38	.36
10.0	.47	.40	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: DEG
 Operators: guanlingao
 Test Date: 2017-12-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity: 65.0%
 Test Distance: 9.390m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:277.1V I:0.3762A P:101.5W PF:0.9735 Lamp Flux:13855.6x1 lm					
NAME: LM-100W			TYPE:glass+90°AL cover		WEIGHT:4.762kg
SPEC.:5000k R80 264L			DIM.: D430mm*329mm		SERIAL No.:
MFR.:			SUR.:0.215m*0.215m*3.14		PROTECTION 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	.234	.133	.042	.227	.130	.041	.214	.123	.039	.202	.117	.037	.191	.111	.036			
2.0	.227	.124	.038	.221	.122	.038	.210	.117	.036	.200	.112	.035	.190	.108	.034			
3.0	.216	.115	.035	.211	.113	.034	.202	.109	.033	.193	.106	.032	.184	.102	.032			
4.0	.205	.107	.031	.201	.105	.031	.192	.102	.030	.184	.099	.030	.177	.096	.029			
5.0	.194	.099	.029	.190	.098	.028	.183	.095	.028	.176	.093	.028	.169	.090	.027			
6.0	.184	.092	.026	.180	.091	.026	.173	.089	.026	.167	.087	.026	.161	.085	.025			
7.0	.174	.086	.024	.171	.085	.024	.165	.083	.024	.159	.082	.024	.154	.080	.023			
8.0	.165	.080	.023	.162	.080	.023	.156	.078	.022	.151	.077	.022	.147	.075	.022			
9.0	.156	.076	.021	.154	.075	.021	.149	.074	.021	.144	.072	.021	.140	.071	.021			
10.0	.148	.071	.020	.146	.071	.020	.142	.069	.020	.138	.068	.019	.134	.067	.019			

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	.175	.157	.140	.150	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.164	.132	.106	.140	.114	.091	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.154	.114	.082	.132	.098	.071	.091	.068	.050	.052	.040	.029	.017	.013	.010	
4.0	.146	.100	.065	.125	.086	.056	.086	.060	.040	.050	.035	.023	.016	.011	.008	
5.0	.139	.089	.053	.119	.077	.046	.082	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.132	.080	.043	.114	.070	.038	.078	.049	.027	.045	.029	.016	.015	.009	.005	
7.0	.126	.073	.037	.108	.064	.032	.075	.045	.023	.043	.026	.013	.014	.009	.004	
8.0	.120	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.012	.013	.008	.004	
9.0	.115	.063	.027	.099	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.110	.058	.024	.095	.051	.021	.066	.036	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: DEG
 Operators: guanlingao
 Test Date: 2017-12-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity: 65.0%
 Test Distance: 9.390m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:277.1V I:0.3762A P:101.5W PF:0.9735 Lamp Flux:13855.6x1 lm										
NAME: LM-100W					TYPE:glass+90°AL cover			WEIGHT:4.762kg		
SPEC.:5000k R80 264L					DIM.: D430mm*329mm			SERIAL No.:		
MFR.:					SUR.:0.215m*0.215m*3.14			PROTECTION 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	23.7	22.7	23.9	24.1	22.1	23.4	22.4	23.6	23.8
3H	22.5	23.6	22.7	23.8	24.1	22.2	23.3	22.4	23.6	23.8
4H	22.5	23.6	22.8	23.8	24.1	22.2	23.3	22.5	23.5	23.8
6H	22.5	23.5	22.8	23.8	24.0	22.2	23.3	22.5	23.5	23.8
8H	22.5	23.5	22.8	23.7	24.0	22.2	23.2	22.5	23.5	23.8
12H	22.5	23.4	22.8	23.7	24.0	22.2	23.1	22.5	23.4	23.7
4H 2H	22.3	23.4	22.6	23.7	23.9	22.0	23.2	22.3	23.4	23.6
3H	22.4	23.4	22.8	23.7	23.9	22.2	23.1	22.5	23.4	23.7
4H	22.5	23.4	22.9	23.7	24.0	22.3	23.1	22.6	23.4	23.8
6H	22.6	23.3	23.0	23.7	24.0	22.4	23.1	22.7	23.5	23.8
8H	22.6	23.3	23.0	23.7	24.1	22.4	23.1	22.8	23.4	23.8
12H	22.6	23.3	23.1	23.7	24.1	22.4	23.0	22.8	23.4	23.8
8H 4H	22.5	23.2	22.9	23.5	23.9	22.2	22.9	22.6	23.3	23.7
6H	22.6	23.2	23.1	23.6	24.0	22.4	23.0	22.8	23.4	23.8
8H	22.7	23.2	23.1	23.6	24.1	22.5	23.0	22.9	23.4	23.8
12H	22.7	23.2	23.2	23.6	24.1	22.5	22.9	23.0	23.4	23.8
12H 4H	22.4	23.1	22.8	23.4	23.8	22.2	22.8	22.6	23.2	23.6
6H	22.6	23.1	23.1	23.5	24.0	22.4	22.9	22.8	23.3	23.8
8H	22.7	23.1	23.2	23.6	24.0	22.5	22.9	22.9	23.3	23.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.8					+ 1.3 / - 2.1				
1.5H	+ 0.8 / - 1.3					+ 0.8 / - 1.4				
2.0H	+ 3.0 / - 4.1					+ 3.1 / - 3.7				

CIE Pub.117 Corrected 13856 lm Total Lamp Luminous Flux. (8log(F/F0) = 9.1)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: DEG
Operators: guanlingao
Test Date: 2017-12-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity: 65.0%
Test Distance: 9.390m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:277.1V I:0.3762A P:101.5W PF:0.9735 Lamp Flux:13855.6x1 lm		
NAME: LM-100W	TYPE:glass+90°AL cover	WEIGHT:4.762kg
SPEC.:5000k R80 264L	DIM.: D430mm*329mm	SERIAL No.:
MFR.:	SUR.:0.215m*0.215m*3.14	PROTECTION ANGLE:

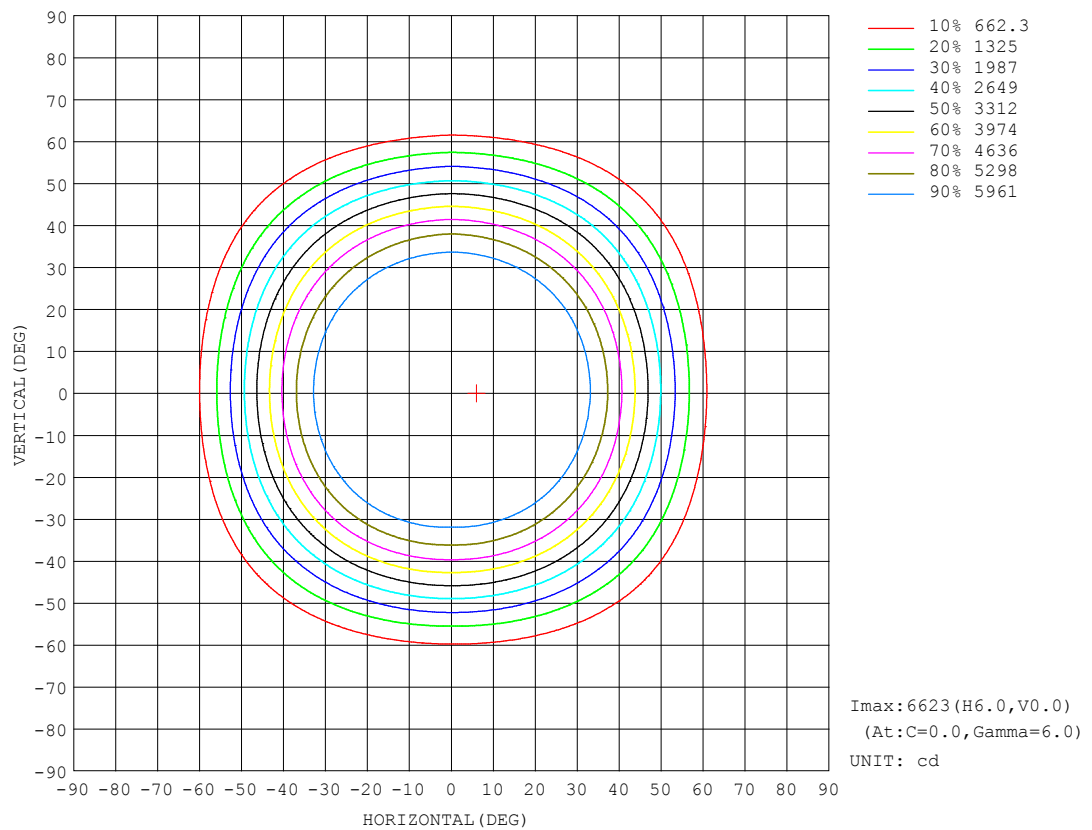
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	69	59	53	68	59	53	67	58	53	48
0.80	79	70	64	78	69	64	76	69	63	58
1.00	87	78	73	86	78	72	84	78	72	66
1.25	93	85	80	92	85	80	90	83	79	73
1.50	97	90	85	96	89	84	93	88	83	77
2.00	102	96	92	101	95	91	98	93	89	83
2.50	105	99	95	103	98	94	100	96	92	85
3.00	107	102	98	105	101	97	102	98	95	88
4.00	110	106	103	108	104	101	104	101	99	91
5.00	112	108	105	109	106	104	105	103	101	92
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: DEG
Operators: guanlingao
Test Date: 2017-12-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity: 65.0%
Test Distance: 9.390m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:277.1V I:0.3762A P:101.5W PF:0.9735 Lamp Flux:13855.6x1 lm		
NAME: LM-100W	TYPE:glass+90°AL cover	WEIGHT:4.762kg
SPEC.:5000k R80 264L	DIM.: D430mm*329mm	SERIAL No.:
MFR.:	SUR.:0.215m*0.215m*3.14	PROTECTION ANGLE:

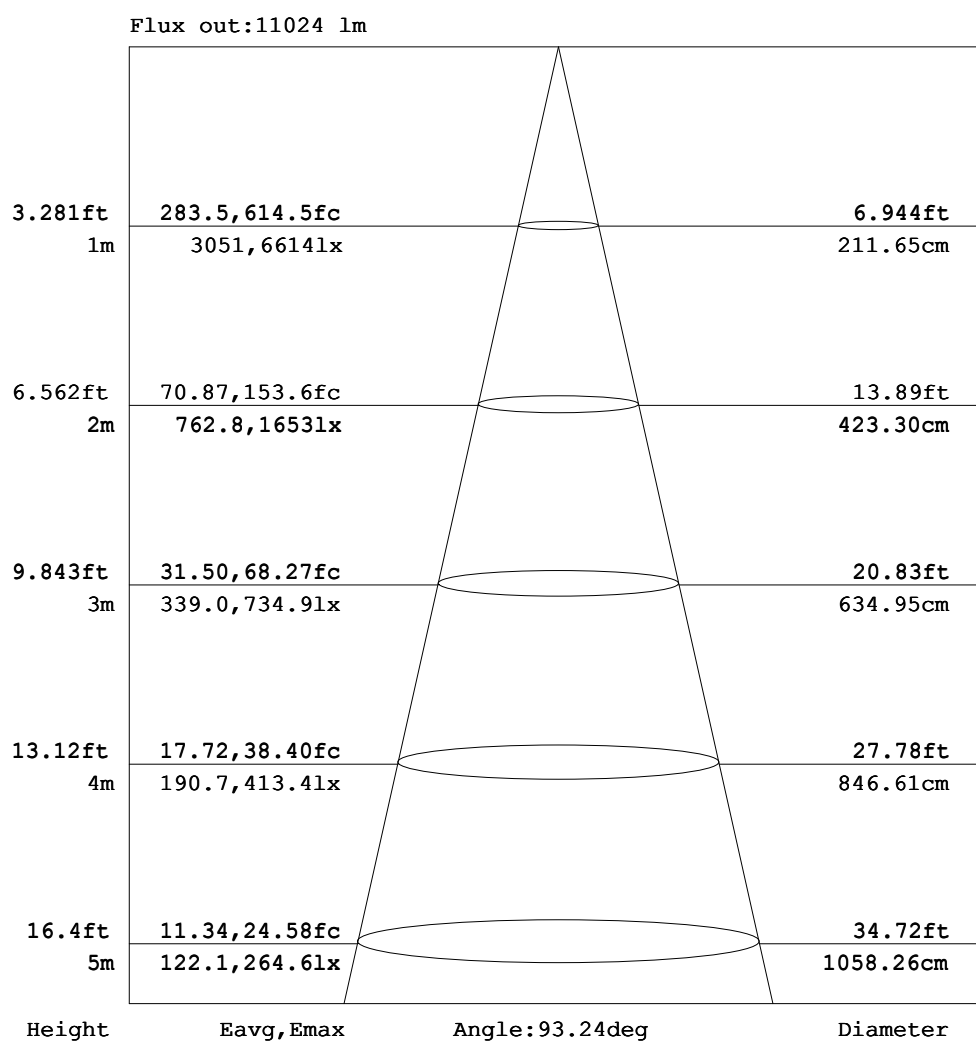


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: DEG
 Operators: guanlingao
 Test Date: 2017-12-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity: 65.0%
 Test Distance: 9.390m [K=1.0000]
 Remarks:

AAI Figure

Test:U:277.1V I:0.3762A P:101.5W PF:0.9735 Lamp Flux:13855.6x1 lm		
NAME: LM-100W	TYPE:glass+90°AL cover	WEIGHT:4.762kg
SPEC.:5000k R80 264L	DIM.: D430mm*329mm	SERIAL No.:
MFR.:	SUR.:0.215m*0.215m*3.14	PROTECTION ANGLE:



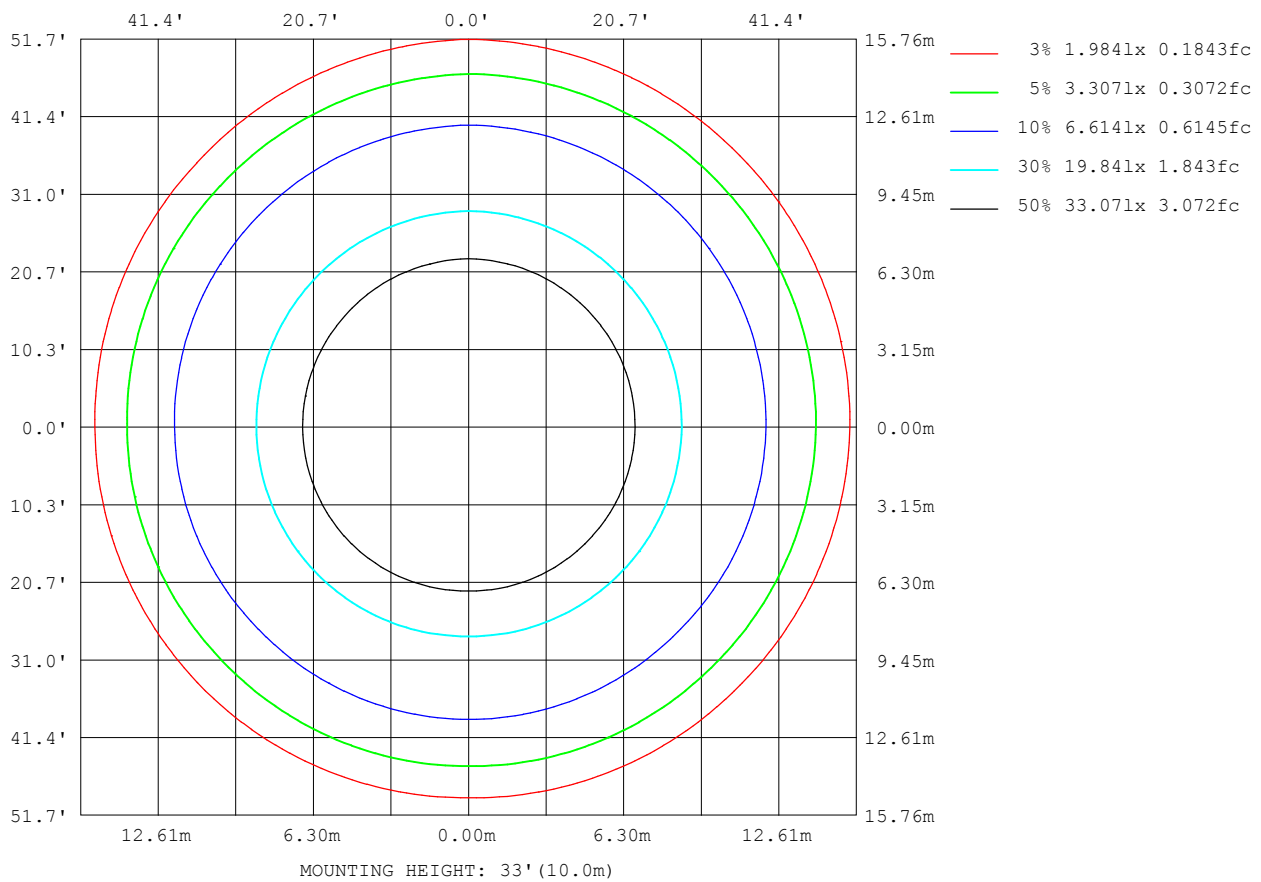
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: DEG
Operators: guanlingao
Test Date: 2017-12-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity: 65.0%
Test Distance: 9.390m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

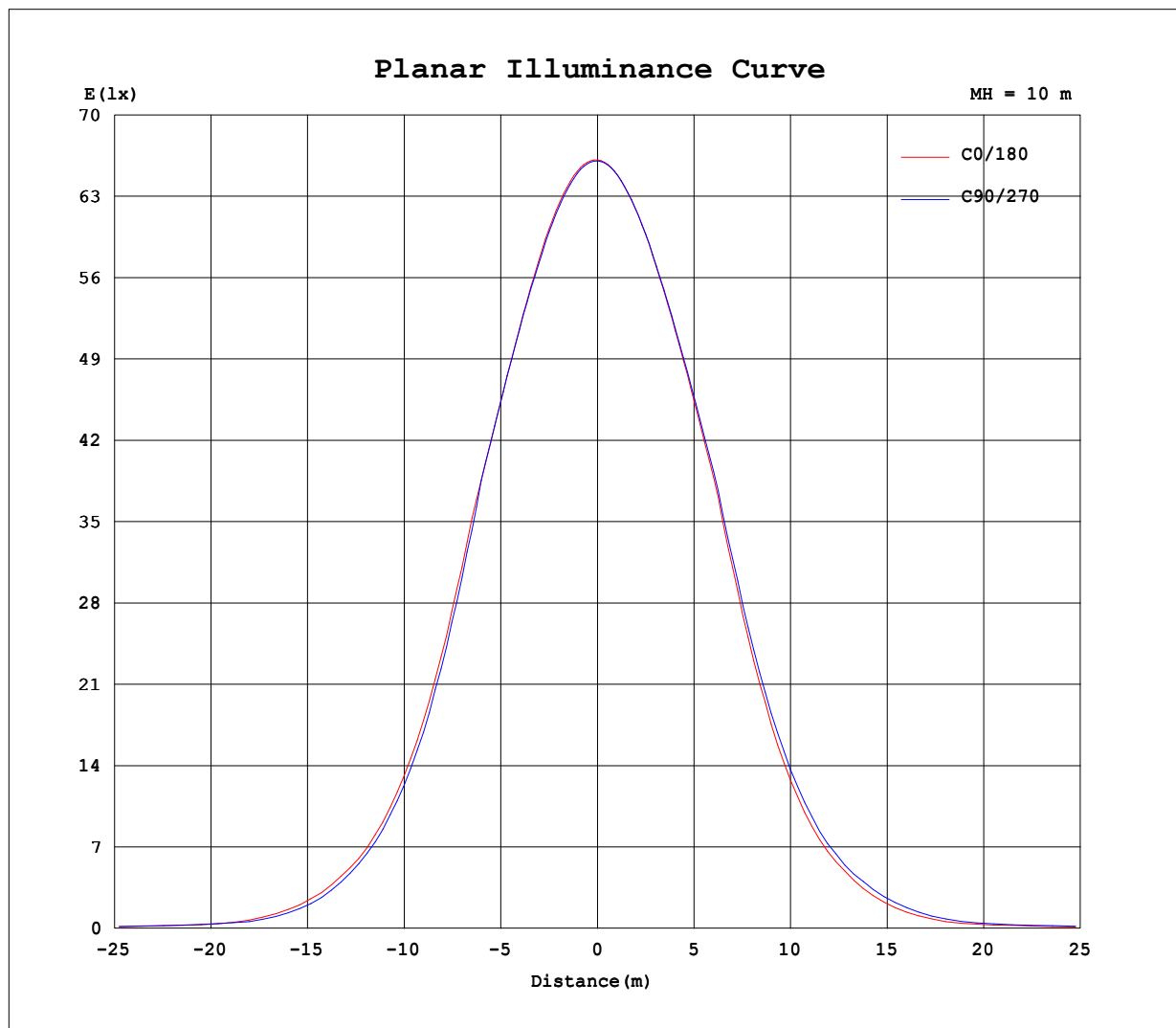
Test:U:277.1V I:0.3762A P:101.5W PF:0.9735 Lamp Flux:13855.6x1 lm		
NAME: LM-100W	TYPE:glass+90°AL cover	WEIGHT:4.762kg
SPEC.:5000k R80 264L	DIM.: D430mm*329mm	SERIAL No.:
MFR.:	SUR.:0.215m*0.215m*3.14	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: DEG
 Operators: guanlingao
 Test Date: 2017-12-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity: 65.0%
 Test Distance: 9.390m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: DEG
Operators: guanlingao
Test Date: 2017-12-29

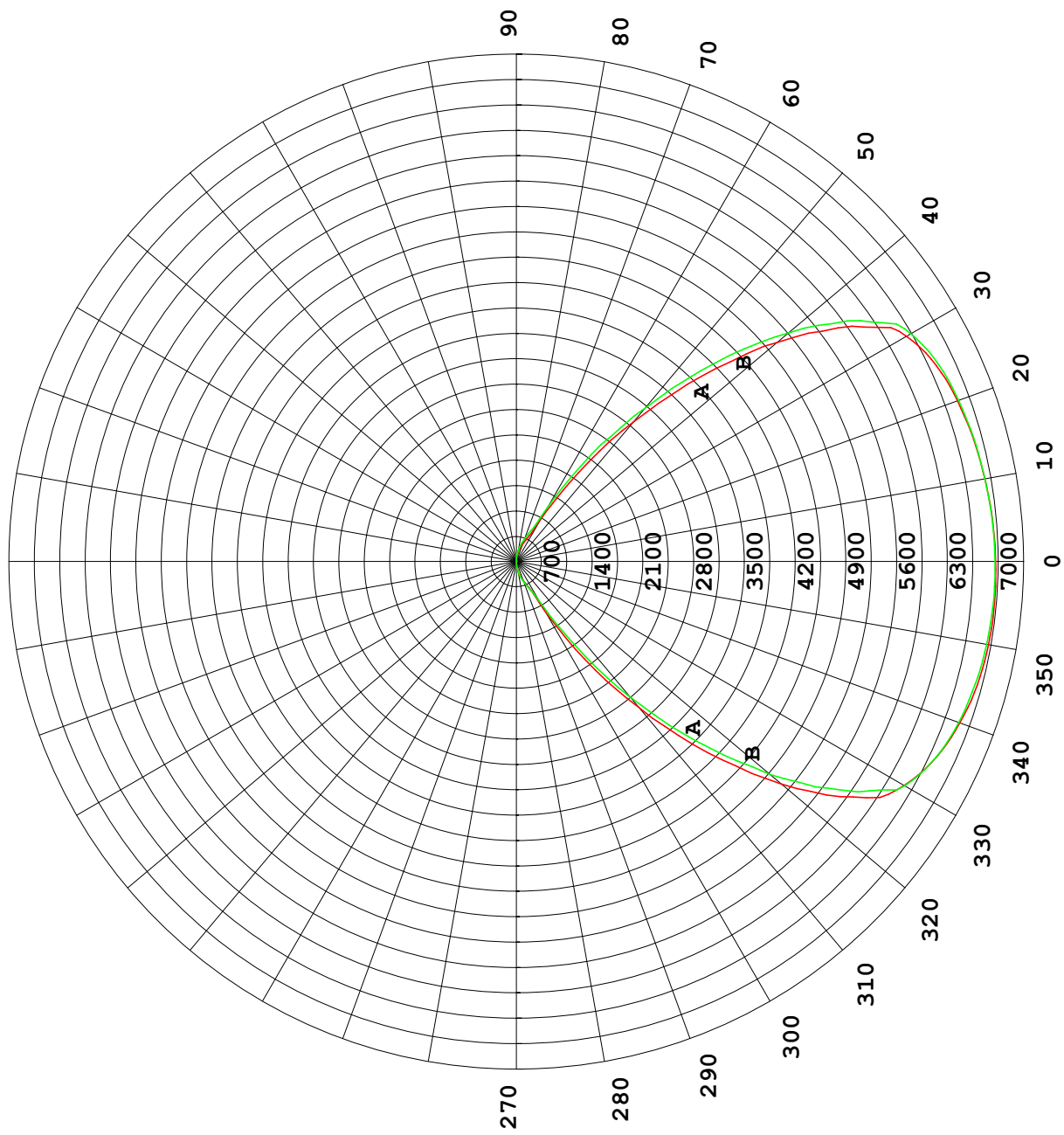
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity: 65.0%
Test Distance: 9.390m [K=1.0000]
Remarks:

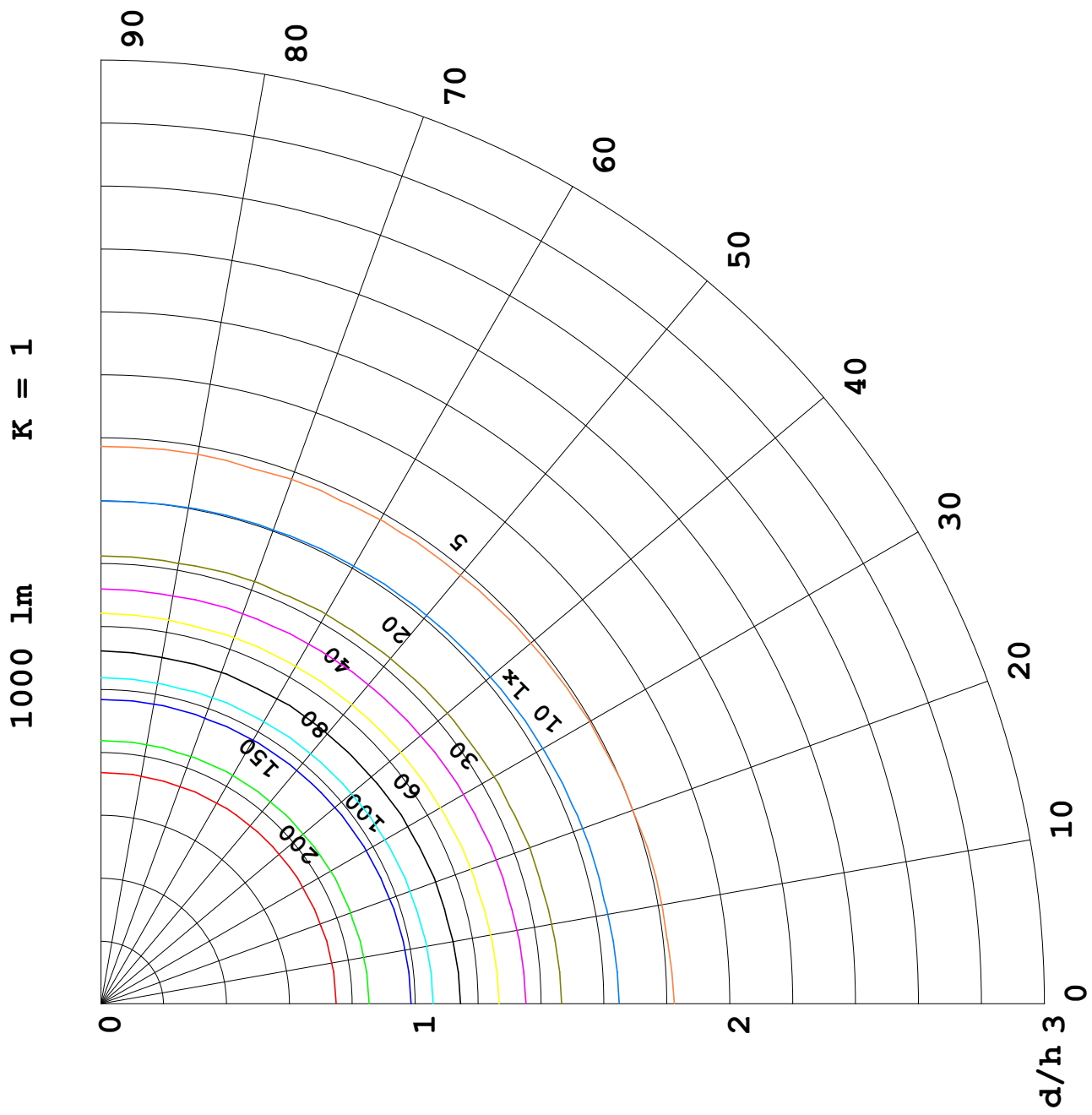
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity:65.0%
Test Distance:9.390m [K=1.0000]
Remarks:

```

I (cd)





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

