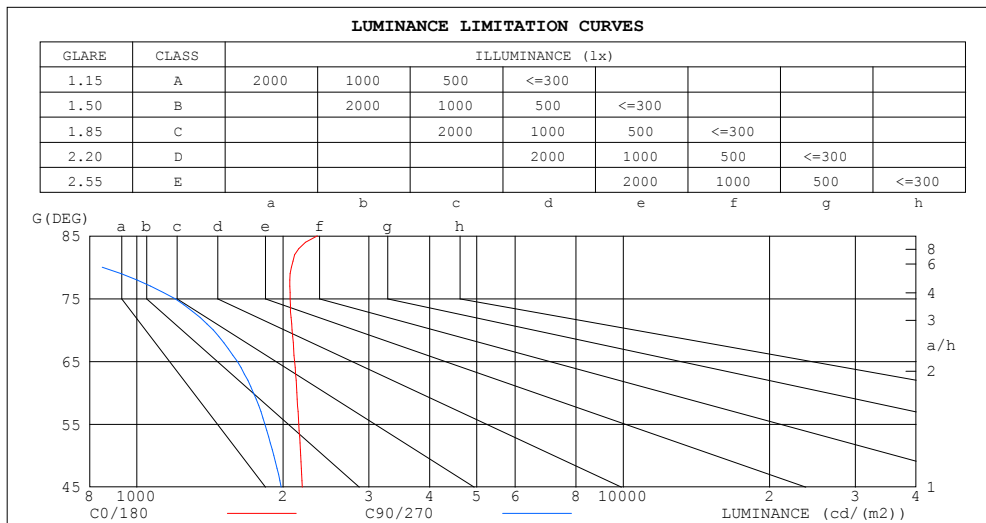


E:\IES\工程测试\硅胶\SF15\SF15-24V-5050-56-SPI4-RGBW\SF15-24V-5050-56-SPI4-RGBW(2700)\SF15-24V-5050-56-SPI4-RGBW(2700)-W\SF15-24V-5050-56-SPI

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.1910A P:4.584W PF:1.000 Freq:50.00Hz Lamp Flux:73.9438x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(2700) -W	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122909
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2350	315
80	2078	849
75	2068	1198
70	2086	1436
65	2110	1609
60	2132	1738
55	2155	1833
50	2173	1912
45	2190	1982

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LPC
Test Date:2021-12-29

γ Range: 0 - 120DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:24.00V I:0.1910A P:4.584W PF:1.000 Freq:50.00Hz Lamp Flux:73.9438x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(2700)-W	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122909
MFR.: OLYMPIA	SUR.:1*0.0115	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 Coeffcients(WEC)										
0.0																	
1.0	.314	.179	.057	.307	.175	.056	.293	.168	.054	.280	.161	.052	.268	.155	.050		
2.0	.294	.161	.049	.287	.158	.049	.275	.153	.047	.263	.148	.046	.253	.143	.045		
3.0	.271	.144	.043	.265	.142	.043	.254	.138	.042	.244	.134	.041	.235	.130	.040		
4.0	.250	.130	.038	.244	.128	.038	.235	.124	.037	.226	.121	.037	.217	.118	.036		
5.0	.231	.117	.034	.226	.116	.034	.217	.113	.033	.209	.110	.033	.202	.108	.032		
6.0	.214	.107	.031	.210	.106	.030	.202	.103	.030	.195	.101	.030	.188	.099	.029		
7.0	.199	.098	.028	.195	.097	.028	.188	.095	.027	.182	.093	.027	.176	.091	.027		
8.0	.186	.091	.025	.182	.090	.025	.176	.088	.025	.170	.086	.025	.165	.085	.025		
9.0	.174	.084	.023	.171	.083	.023	.165	.082	.023	.160	.080	.023	.155	.079	.023		
10.0	.163	.078	.022	.161	.078	.022	.156	.076	.021	.151	.075	.021	.146	.074	.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	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021		
1.0	.190	.166	.144	.163	.142	.124	.111	.098	.085	.064	.057	.050	.021	.018	.016		
2.0	.182	.141	.107	.156	.122	.093	.107	.084	.065	.062	.049	.038	.020	.016	.012		
3.0	.174	.124	.084	.149	.107	.073	.103	.074	.051	.059	.043	.030	.019	.014	.010		
4.0	.167	.111	.068	.143	.096	.059	.098	.067	.042	.057	.039	.025	.018	.013	.008		
5.0	.159	.100	.057	.137	.087	.049	.094	.061	.035	.055	.036	.021	.018	.012	.007		
6.0	.152	.092	.049	.131	.080	.043	.090	.056	.030	.052	.033	.018	.017	.011	.006		
7.0	.145	.085	.043	.125	.074	.037	.086	.052	.027	.050	.030	.016	.016	.010	.005		
8.0	.139	.079	.038	.119	.069	.034	.083	.048	.024	.048	.028	.014	.016	.009	.005		
9.0	.133	.074	.035	.114	.064	.031	.079	.045	.022	.046	.027	.013	.015	.009	.004		
10.0	.127	.070	.032	.109	.061	.028	.076	.043	.020	.044	.025	.012	.014	.008	.004		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LPC
 Test Date:2021-12-29

γ Range: 0 - 120DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:9.200m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.1910A P:4.584W PF:1.000 Freq:50.00Hz Lamp Flux:73.9438x1 lm											
NAME: SF15-24V-5050-56-SPI4-RGBW(2700)-W						TYPE:硅胶			WEIGHT:		
SPEC.:						DIM.: 21mm*11.5mm			SERIAL No.:2021122909		
MFR.: OLYMPIA						SUR.:1*0.0115			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	24.8	26.3	25.1	26.5	26.8	24.2	25.7	24.4	25.9	26.1	
	3H	26.5	27.9	26.8	28.2	28.4	25.5	26.9	25.8	27.2	27.4
	4H	27.3	28.6	27.6	28.9	29.2	26.0	27.3	26.3	27.6	27.8
	6H	27.9	29.1	28.2	29.4	29.7	26.2	27.5	26.6	27.7	28.1
	8H	28.1	29.4	28.5	29.7	30.0	26.2	27.4	26.6	27.7	28.1
	12H	28.4	29.5	28.7	29.8	30.2	26.2	27.4	26.6	27.7	28.0
4H	2H	25.4	26.7	25.8	27.0	27.3	24.9	26.3	25.3	26.5	26.8
	3H	27.3	28.5	27.7	28.8	29.2	26.6	27.7	26.9	28.0	28.4
	4H	28.3	29.3	28.6	29.7	30.0	27.2	28.2	27.6	28.6	29.0
	6H	29.0	30.0	29.4	30.3	30.7	27.6	28.5	28.0	28.9	29.3
	8H	29.4	30.2	29.8	30.6	31.0	27.7	28.5	28.1	28.9	29.3
	12H	29.6	30.4	30.1	30.9	31.3	27.7	28.5	28.1	28.9	29.3
8H	4H	28.6	29.4	29.0	29.8	30.2	27.6	28.5	28.1	28.9	29.3
	6H	29.5	30.3	30.0	30.7	31.1	28.3	29.0	28.7	29.4	29.9
	8H	30.0	30.6	30.5	31.1	31.5	28.5	29.1	28.9	29.6	30.0
	12H	30.4	30.9	30.9	31.4	31.9	28.6	29.1	29.1	29.6	30.1
12H	4H	28.6	29.4	29.0	29.8	30.2	27.7	28.5	28.1	28.9	29.3
	6H	29.6	30.3	30.1	30.7	31.2	28.4	29.1	28.9	29.5	30.0
	8H	30.1	30.7	30.6	31.1	31.6	28.7	29.2	29.2	29.7	30.2
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4					
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.5					

CIE Pub.117, 73.94 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -9.0)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LPC
Test Date:2021-12-29

γ Range: 0 - 120DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.1910A P:4.584W PF:1.000 Freq:50.00Hz Lamp Flux:73.9438x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(2700) -W	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122909
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

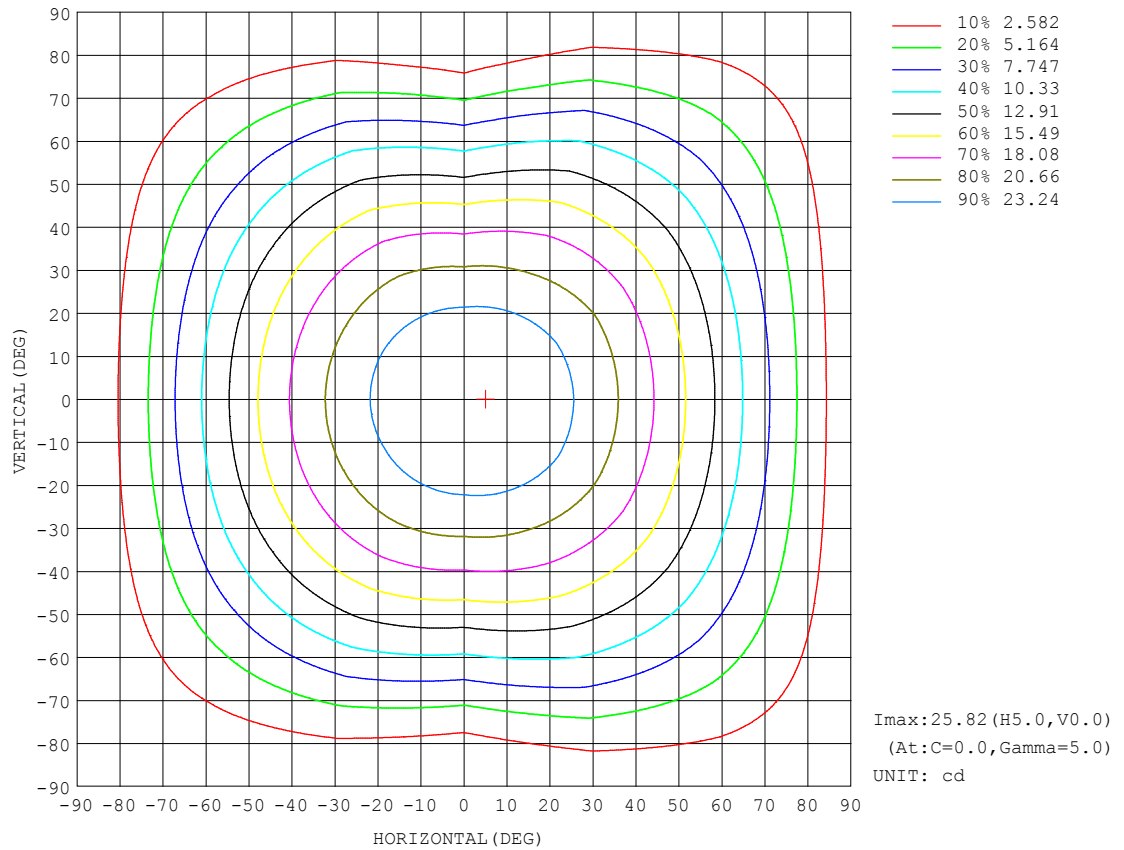
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	56	72	65	56	49
1.25	82	72	65	81	71	64	78	70	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	94	91	82
5.00	108	103	99	106	101	97	101	97	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LPC
Test Date:2021-12-29

γ Range: 0 - 120DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.1910A P:4.584W PF:1.000 Freq:50.00Hz Lamp Flux:73.9438x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(2700)-W	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122909
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LPC
Test Date:2021-12-29

γ Range: 0 - 120DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:24.00V I:0.1910A P:4.584W PF:1.000 Freq:50.00Hz Lamp Flux:73.9438x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(2700)-W	TYPE:硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122909
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

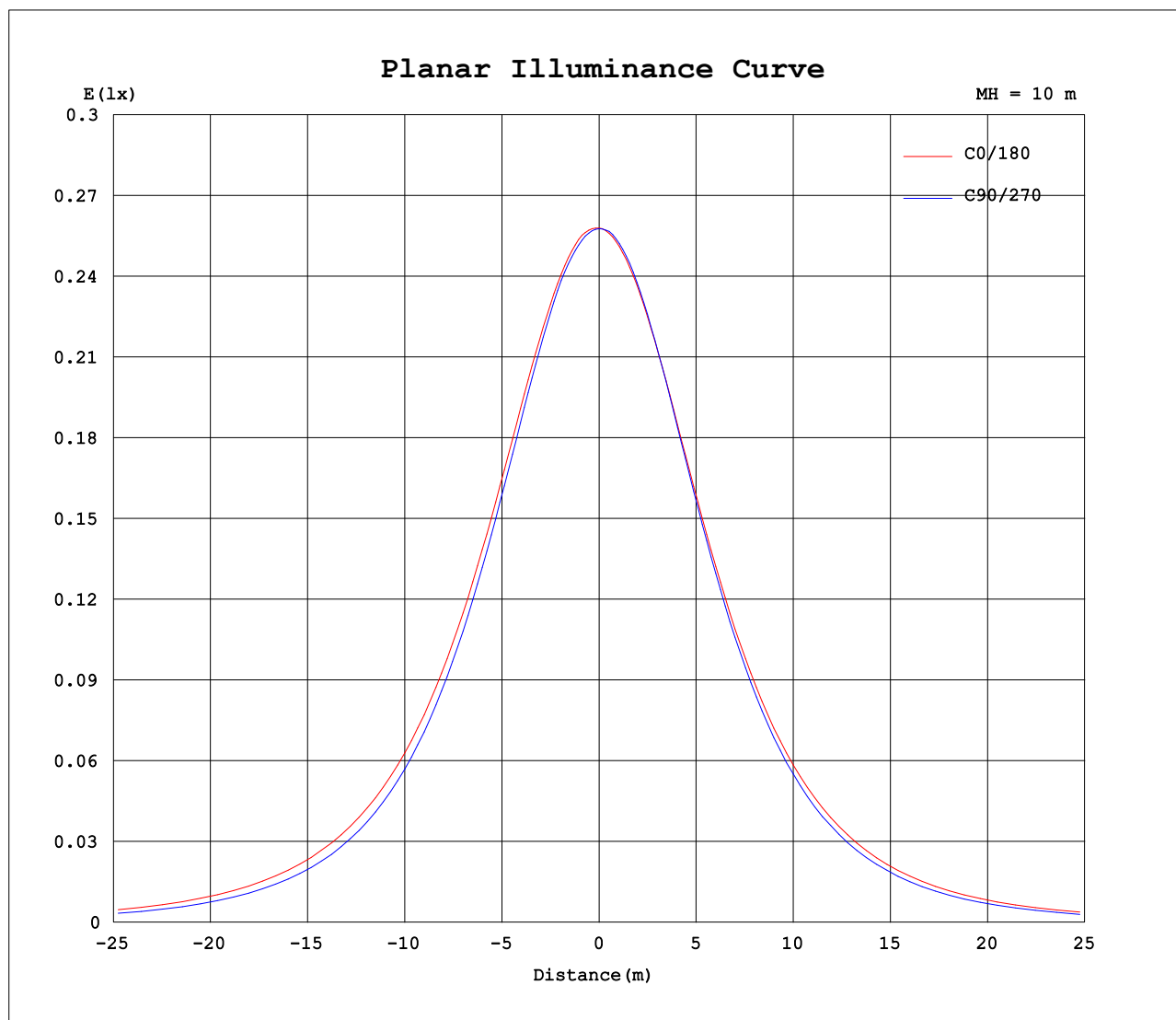
AvgL	cd/m2
L_0~180(65)av	1946
L_0~180(75)av	1796
L_0~180(85)av	1853
L_90~270(65)av	1537
L_90~270(75)av	1080
L_90~270(85)av	231
L_45(65)av	1945
L_45(75)av	1794
L_45(85)av	1717

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LPC
Test Date:2021-12-29

γ Range: 0 - 120DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LPC
Test Date: 2021-12-29

γ Range: 0 - 120DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 9.200m [K=1.0000]
Remarks:

Photometric Data Table [cd]

G/C	0.0	30.0	60.0	90.0	120.0	150.0	180.0	210.0	240.0	270.0
0.0	25.80	25.80	25.77	25.77	25.77	25.76	25.80	25.80	25.77	25.77
3.0	25.82	25.79	25.77	25.71	25.73	25.66	25.70	25.74	25.69	25.77
6.0	25.78	25.72	25.71	25.58	25.55	25.47	25.52	25.55	25.52	25.63
9.0	25.62	25.56	25.53	25.38	25.30	25.20	25.25	25.28	25.28	25.40
12.0	25.36	25.32	25.28	25.08	24.97	24.86	24.91	24.92	24.92	25.02
15.0	25.02	24.99	24.88	24.64	24.53	24.44	24.49	24.49	24.47	24.55
18.0	24.62	24.59	24.40	24.12	24.01	23.94	24.00	23.98	23.93	23.99
21.0	24.13	24.12	23.82	23.52	23.43	23.37	23.41	23.39	23.34	23.32
24.0	23.55	23.55	23.18	22.82	22.77	22.74	22.78	22.72	22.69	22.61
27.0	22.92	22.89	22.47	22.07	22.08	22.04	22.06	22.02	21.98	21.77
30.0	22.22	22.20	21.69	21.24	21.30	21.24	21.29	21.21	21.22	20.90
33.0	21.46	21.42	20.85	20.33	20.46	20.41	20.45	20.38	20.40	19.95
36.0	20.63	20.59	19.99	19.35	19.58	19.53	19.55	19.49	19.52	18.94
39.0	19.73	19.71	19.09	18.34	18.63	18.57	18.60	18.55	18.59	17.85
42.0	18.80	18.77	18.14	17.25	17.64	17.57	17.60	17.54	17.60	16.73
45.0	17.81	17.78	17.16	16.12	16.61	16.54	16.55	16.52	16.59	15.60
48.0	16.78	16.78	16.14	14.95	15.53	15.44	15.46	15.38	15.52	14.34
51.0	15.70	15.70	15.07	13.74	14.41	14.30	14.33	14.25	14.40	13.16
54.0	14.58	14.58	13.97	12.50	13.25	13.11	13.15	13.11	13.25	11.86
57.0	13.44	13.45	12.82	11.27	12.07	11.92	11.96	11.87	12.07	10.62
60.0	12.26	12.27	11.68	9.992	10.85	10.70	10.74	10.69	10.87	9.336
63.0	11.07	11.08	10.50	8.685	9.619	9.429	9.489	9.412	9.630	8.016
66.0	9.850	9.872	9.302	7.369	8.372	8.193	8.248	8.141	8.389	6.693
69.0	8.623	8.635	8.075	6.072	7.100	6.912	6.982	6.909	7.117	5.372
72.0	7.383	7.394	6.855	4.795	5.860	5.670	5.740	5.668	5.860	4.145
75.0	6.156	6.173	5.648	3.565	4.613	4.465	4.535	4.422	4.615	2.864
78.0	4.934	4.937	4.437	2.394	3.432	3.324	3.404	3.286	3.424	1.768
81.0	3.768	3.756	3.290	1.364	2.345	2.329	2.414	2.294	2.303	0.8467
84.0	2.673	2.650	2.195	0.4907	1.440	1.526	1.581	1.480	1.359	0.1876
87.0	1.802	1.717	1.295	0.2584	0.8061	0.9336	0.9584	0.8713	0.6720	0.1007
90.0	1.168	1.064	0.7051	0.2501	0.4983	0.5622	0.5167	0.4934	0.3062	0.0854
93.0	0.7300	0.6424	0.4478	0.2418	0.4323	0.4070	0.3539	0.3270	0.2366	0.0804
96.0	0.4682	0.3967	0.3778	0.2413	0.4229	0.3950	0.3173	0.3116	0.2378	0.0804
99.0	0.3168	0.3418	0.3646	0.2625	0.4101	0.3494	0.2807	0.2838	0.2390	0.0854
102.0	0.3010	0.3518	0.3514	0.2791	0.3973	0.3038	0.2441	0.2451	0.2402	0.1206
105.0	0.3000	0.3579	0.3317	0.2866	0.3701	0.2583	0.2074	0.2064	0.2461	0.1269
108.0	0.2989	0.3669	0.3467	0.2941	0.3688	0.2127	0.1708	0.1677	0.2614	0.1307
111.0	0.2979	0.3745	0.3288	0.3016	0.3710	0.1671	0.1342	0.1290	0.2765	0.1361
114.0	0.2642	0.3820	0.2302	0.3116	0.3730	0.1215	0.0976	0.0903	0.2890	0.1449
117.0	0.1651	0.3820	0.1315	0.3217	0.3750	0.0760	0.0610	0.0516	0.2965	0.1508
120.0	0.0660	0.3820	0.0329	0.1287	0.3769	0.0304	0.0244	0.0129	0.1186	0.1860
G/C	300.0	330.0								
0.0	25.77	25.76								
3.0	25.75	25.78								
6.0	25.67	25.77								
9.0	25.48	25.61								
12.0	25.17	25.36								
15.0	24.76	25.02								
18.0	24.26	24.56								
21.0	23.67	24.01								
24.0	23.00	23.44								
27.0	22.23	22.85								
30.0	21.43	22.16								
33.0	20.59	21.37								
36.0	19.77	20.57								
39.0	18.94	19.66								
42.0	18.08	18.77								
45.0	17.13	17.77								
48.0	16.13	16.76								
51.0	15.07	15.70								
54.0	13.99	14.62								
57.0	12.86	13.42								
60.0	11.71	12.29								
63.0	10.52	11.10								
66.0	9.339	9.860								
69.0	8.122	8.663								
72.0	6.891	7.422								
75.0	5.675	6.161								
78.0	4.454	4.959								
81.0	3.283	3.758								
84.0	2.182	2.638								
87.0	1.229	1.731								
90.0	0.5917	1.057								

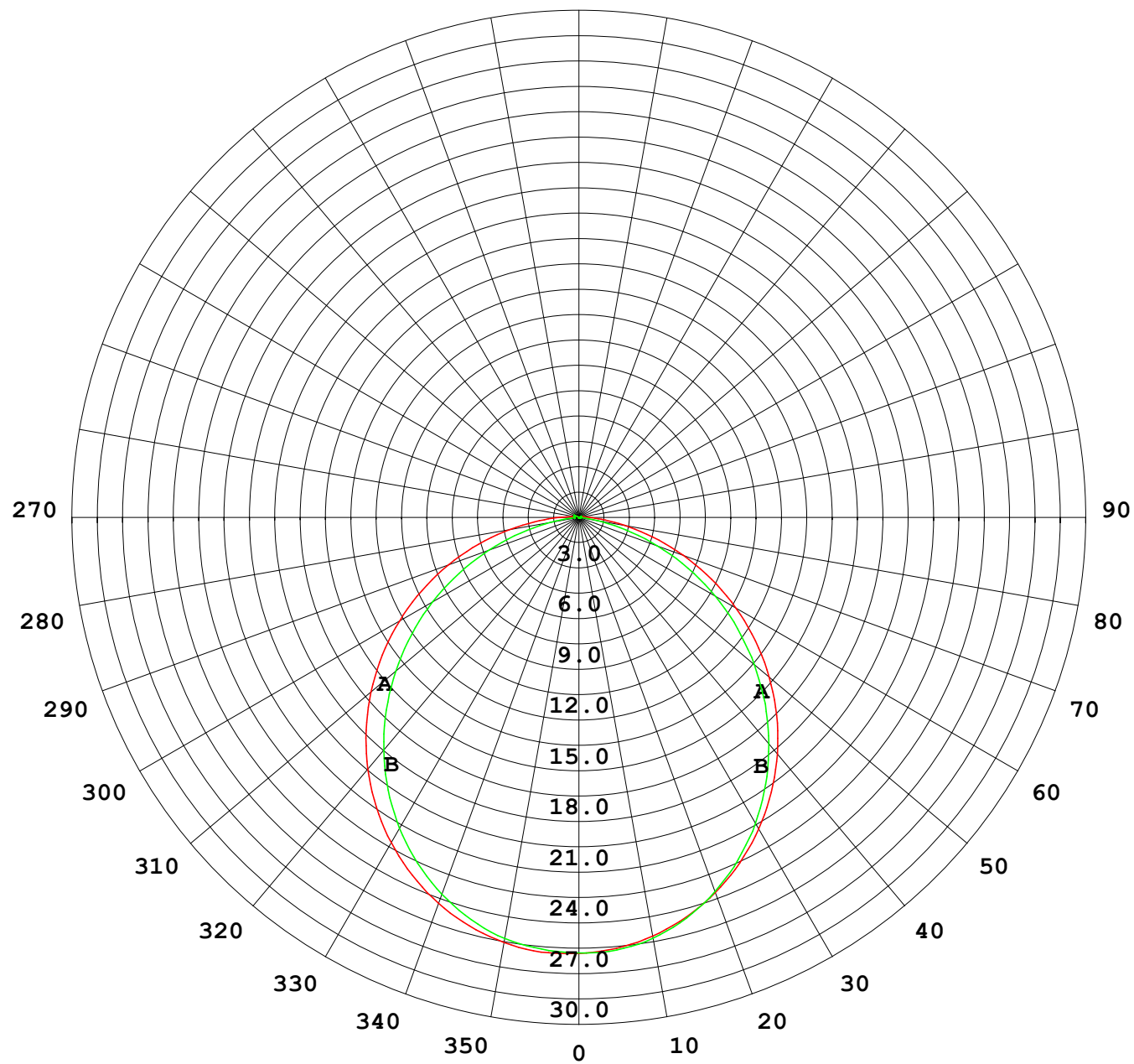
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LPC
Test Date:2021-12-29

```

γ Range: 0 - 120DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

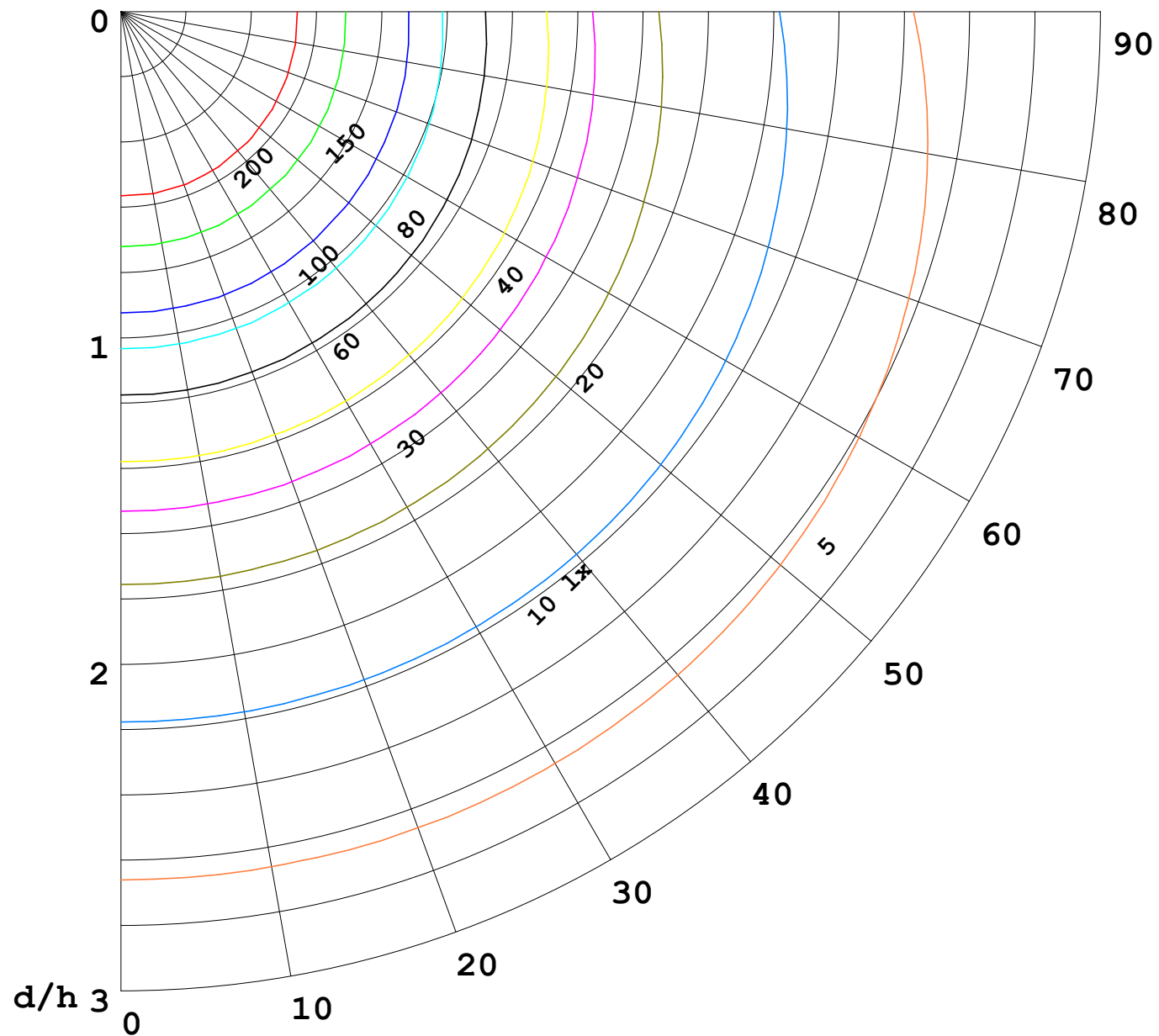
```


I (cd)



1000 lm

$\kappa = 1$



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

