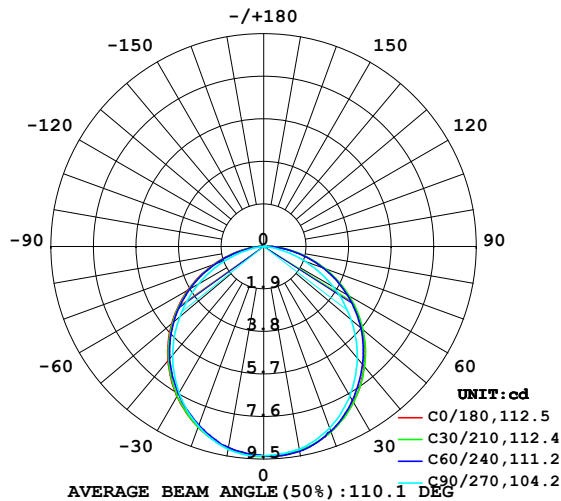


## LUMINAIRE PHOTOMETRIC TEST REPORT

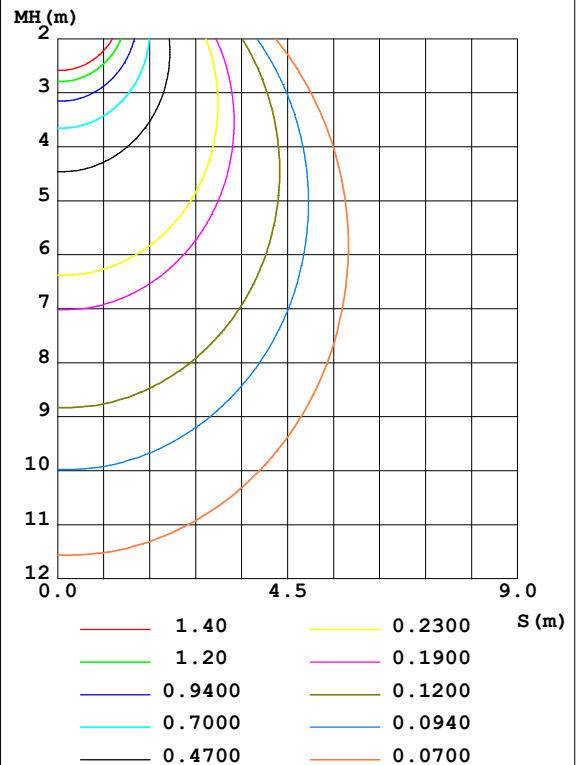
Test:U:24.00V I:0.1925A P:4.620W PF:1.000 Freq:50.00Hz Lamp Flux:26.5838x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000)-R	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122911
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 5.75 lm/W
MODEL	5050	I <sub>max</sub> (cd)	9.378	S/MH (C0/180)	1.24	
NOMINAL POWER (W)	3.75	LOR (%)	100.0	S/MH (C90/270)	1.21	
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	26.584	η UP, DN (C0-180)	0.5, 49.9	
NOMINAL FLUX (lm)	26.5838	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.3, 49.2	
LAMPS INSIDE	1	η up (%)	0.9	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	24	η down (%)	99.1	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



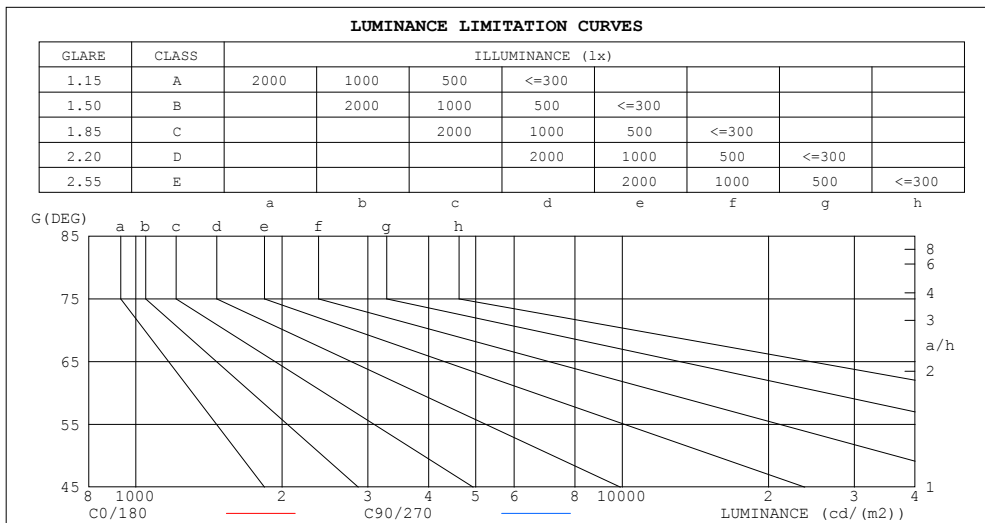
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: LPC  
Test Date: 2021-12-29

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:

E:\IES\工程测试\硅胶\SF15\SF15-24V-5050-56-SPI4-RGBW\SF15-24V-5050-56-SPI4-RGBW(3000)\SF15-24V-5050-56-SPI4-RGBW(3000)-R\SF15-24V-5050-56-SPI

## LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.1925A P:4.620W PF:1.000 Freq:50.00Hz Lamp Flux:26.5838x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000)-R	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122911
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	768	60
80	705	281
75	713	422
70	731	507
65	747	573
60	759	623
55	769	660
50	779	690
45	788	716

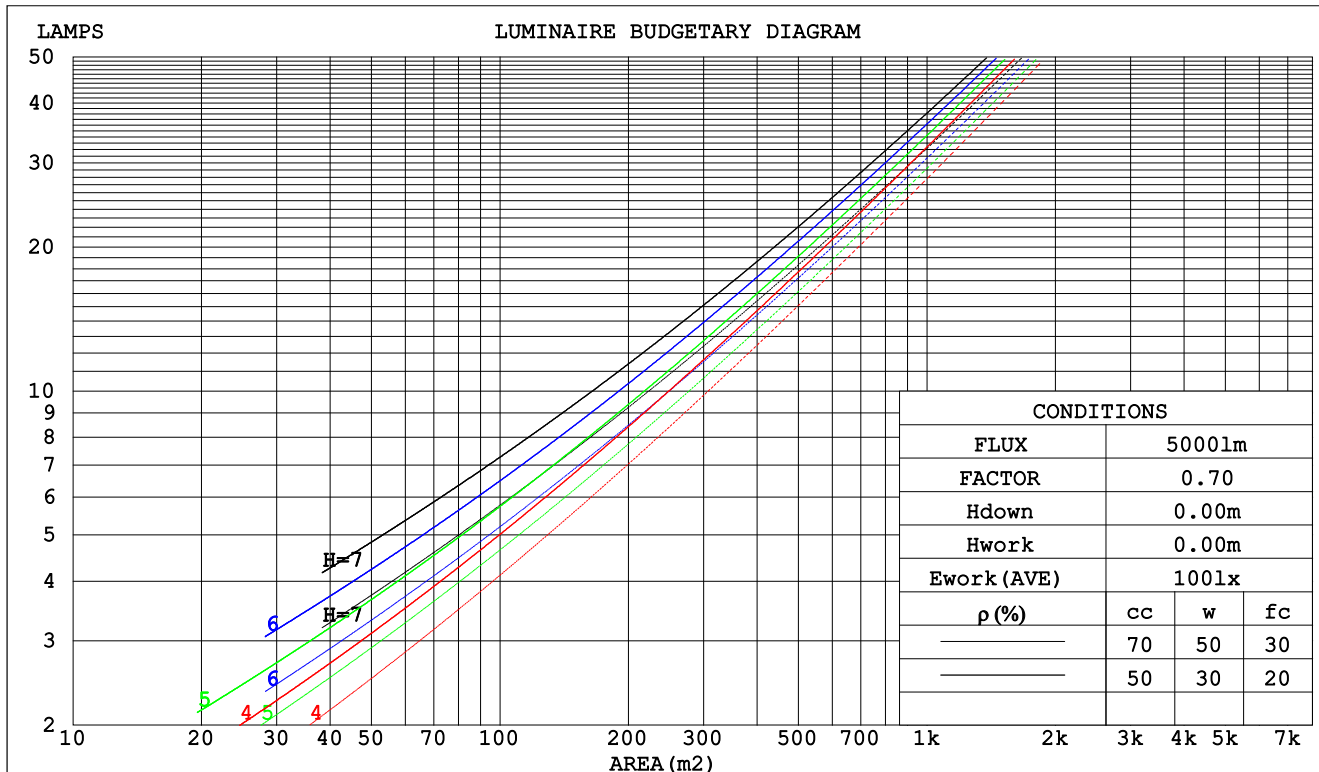
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LPC  
Test Date:2021-12-29

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:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.1925A P:4.620W PF:1.000 Freq:50.00Hz Lamp Flux:26.5838x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000)-R	TYPE:硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122911
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						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	1.01	1.01	1.01	.99
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.52	.49
5.0	.63	.54	.47	.61	.53	.47	.59	.52	.46	.57	.51	.45	.55	.49	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.32	.42	.36	.31	.29
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



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

$\gamma$  Range: 0 - 120DEG  
 $\gamma$  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:0.1925A P:4.620W PF:1.000 Freq:50.00Hz Lamp Flux:26.5838x1 lm											
NAME: SF15-24V-5050-56-SPI4-RGBW(3000)-R						TYPE:硅胶			WEIGHT:		
SPEC.:						DIM.: 21mm*11.5mm			SERIAL No.:2021122911		
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	26.7	24.3	25.8	24.5	26.0	26.2	
	3H	26.5	27.9	26.8	28.1	28.4	25.6	27.0	25.9	27.2	27.5
	4H	27.2	28.5	27.5	28.8	29.1	26.0	27.4	26.4	27.6	27.9
	6H	27.8	29.0	28.1	29.3	29.6	26.3	27.5	26.6	27.8	28.1
	8H	28.0	29.2	28.3	29.5	29.8	26.3	27.5	26.6	27.8	28.1
	12H	28.2	29.3	28.5	29.6	30.0	26.2	27.4	26.6	27.7	28.0
4H	2H	25.4	26.8	25.8	27.0	27.3	25.0	26.4	25.4	26.6	26.9
	3H	27.3	28.5	27.7	28.8	29.1	26.6	27.8	27.0	28.1	28.4
	4H	28.2	29.2	28.6	29.6	29.9	27.3	28.3	27.7	28.7	29.0
	6H	28.9	29.8	29.3	30.2	30.6	27.7	28.6	28.1	29.0	29.4
	8H	29.2	30.1	29.6	30.5	30.9	27.7	28.6	28.2	29.0	29.4
	12H	29.4	30.3	29.9	30.7	31.1	27.7	28.5	28.2	28.9	29.4
8H	4H	28.5	29.4	28.9	29.8	30.2	27.7	28.6	28.2	29.0	29.4
	6H	29.4	30.1	29.9	30.6	31.0	28.4	29.1	28.8	29.5	30.0
	8H	29.8	30.5	30.3	30.9	31.4	28.5	29.2	29.0	29.6	30.1
	12H	30.2	30.7	30.7	31.2	31.7	28.6	29.2	29.1	29.6	30.1
12H	4H	28.5	29.3	29.0	29.7	30.1	27.8	28.6	28.2	29.0	29.4
	6H	29.5	30.1	30.0	30.6	31.1	28.5	29.1	29.0	29.6	30.0
	8H	30.0	30.5	30.5	31.0	31.5	28.8	29.3	29.3	29.8	30.3
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.3 / - 0.4					
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.5					

CIE Pub.117, 26.58 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -12.6)

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:0.1925A P:4.620W PF:1.000 Freq:50.00Hz Lamp Flux:26.5838x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000)-R	TYPE:硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122911
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

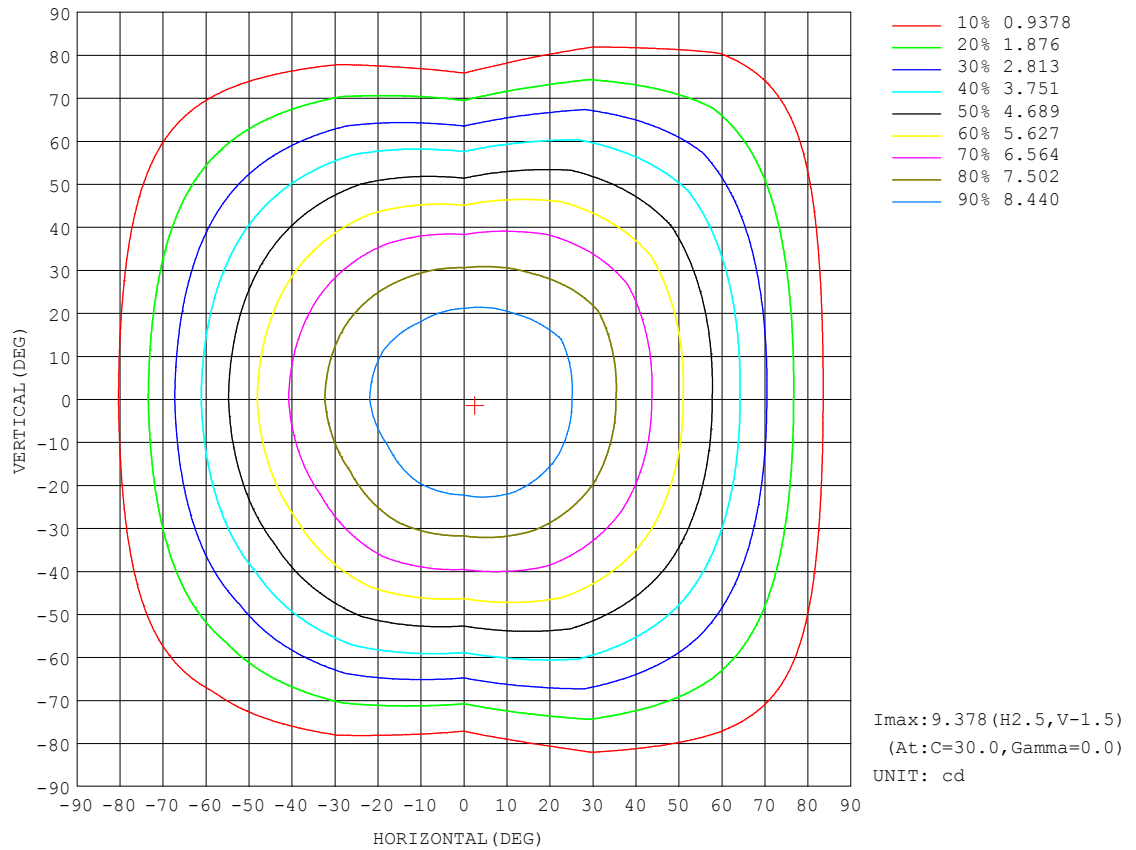
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	57	45	39	55	45	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	65	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	98	91	84	96	89	84	92	86	82	73
3.00	102	95	89	100	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	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

$\gamma$  Range: 0 - 120DEG  
 $\gamma$  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:0.1925A P:4.620W PF:1.000 Freq:50.00Hz Lamp Flux:26.5838x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000)-R	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122911
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:



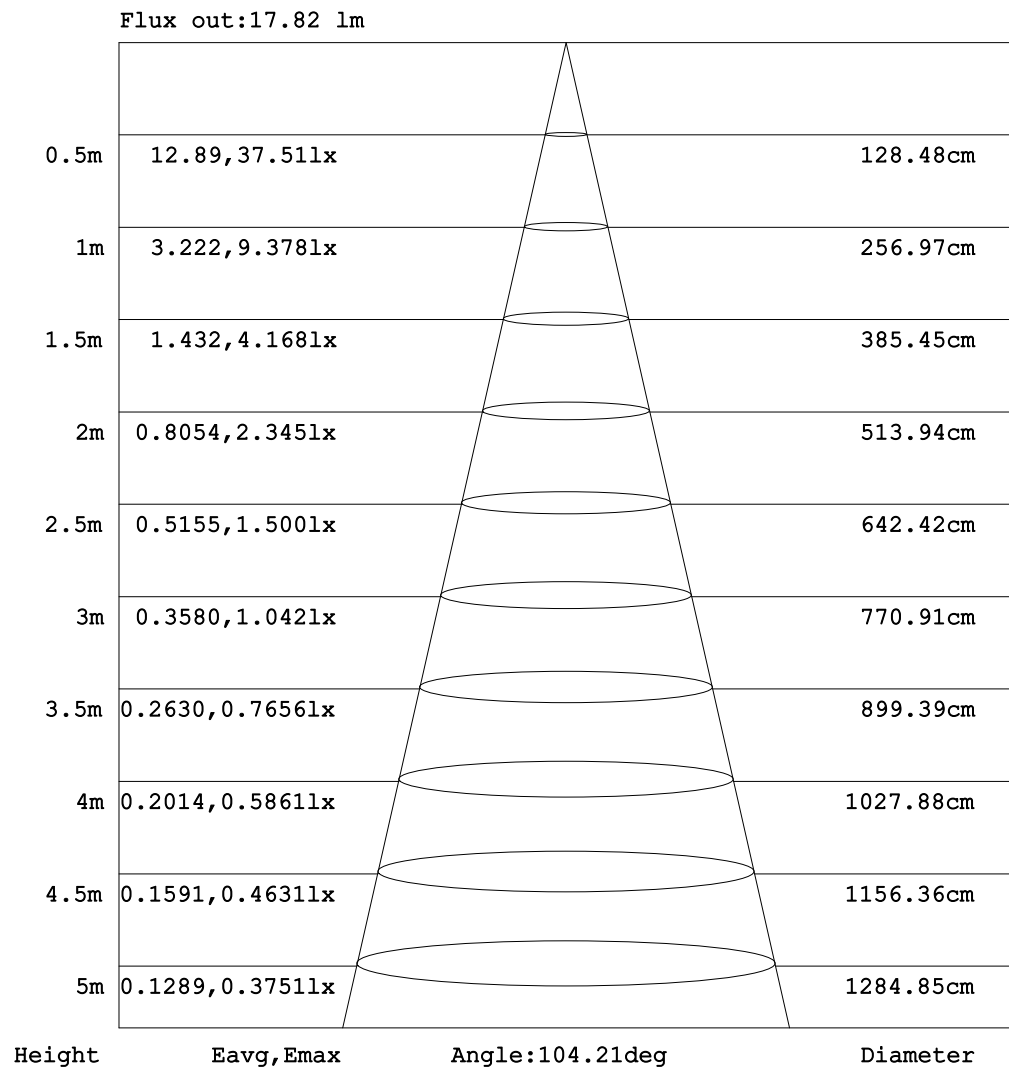
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: LPC  
Test Date: 2021-12-29

$\gamma$  Range: 0 - 120DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 9.200m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:24.00V I:0.1925A P:4.620W PF:1.000 Freq:50.00Hz Lamp Flux:26.5838x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000)-R	TYPE:硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122911
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding 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: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LPC  
Test Date:2021-12-29

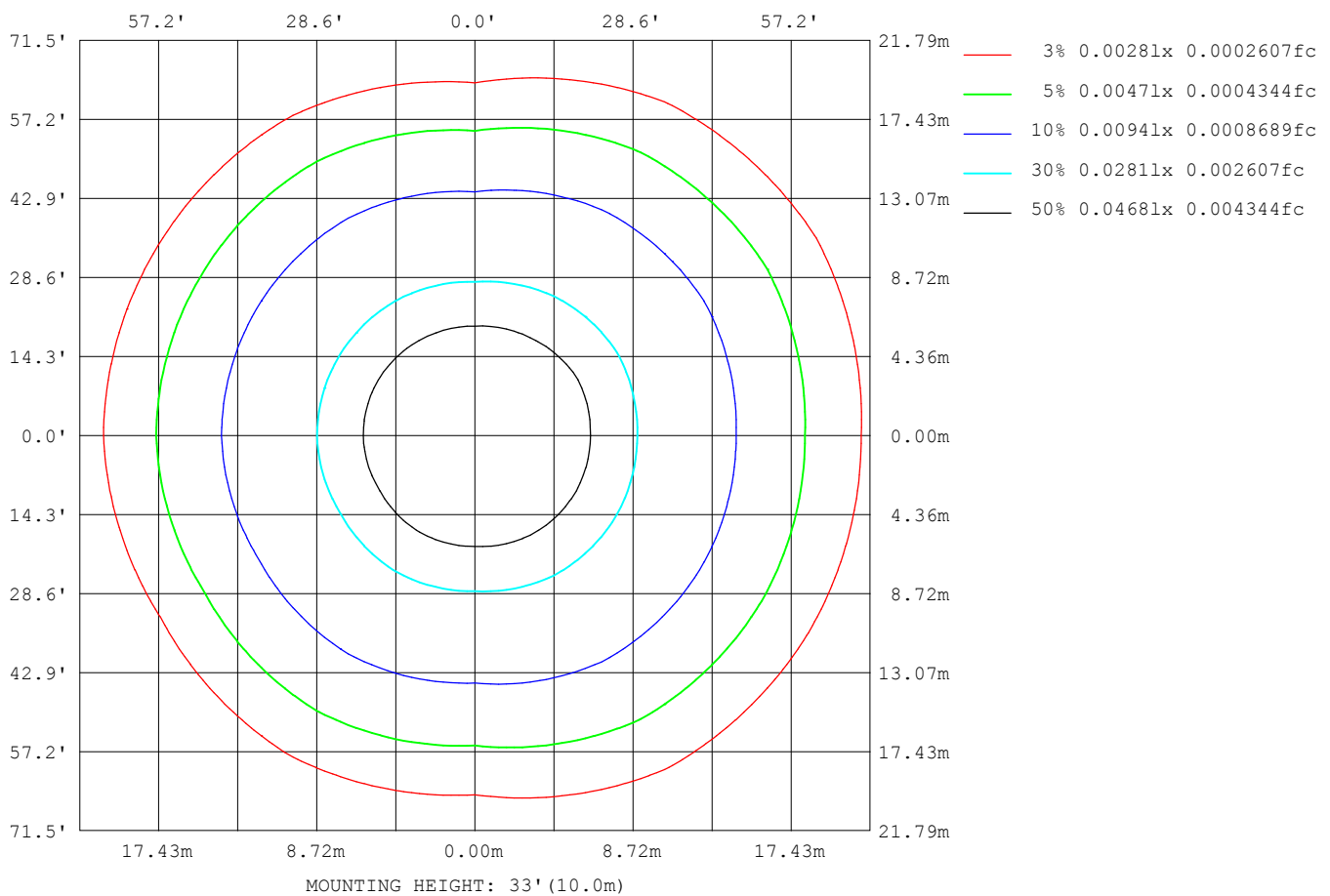
```

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:

```

## ISOLUX DIAGRAM

Test:U:24.00V I:0.1925A P:4.620W PF:1.000 Freq:50.00Hz Lamp Flux:26.5838x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000)-R	TYPE:硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122911
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

```

Range: 0 - 120DEG
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:0.1925A P:4.620W PF:1.000 Freq:50.00Hz Lamp Flux:26.5838x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000)-R	TYPE:硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122911
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

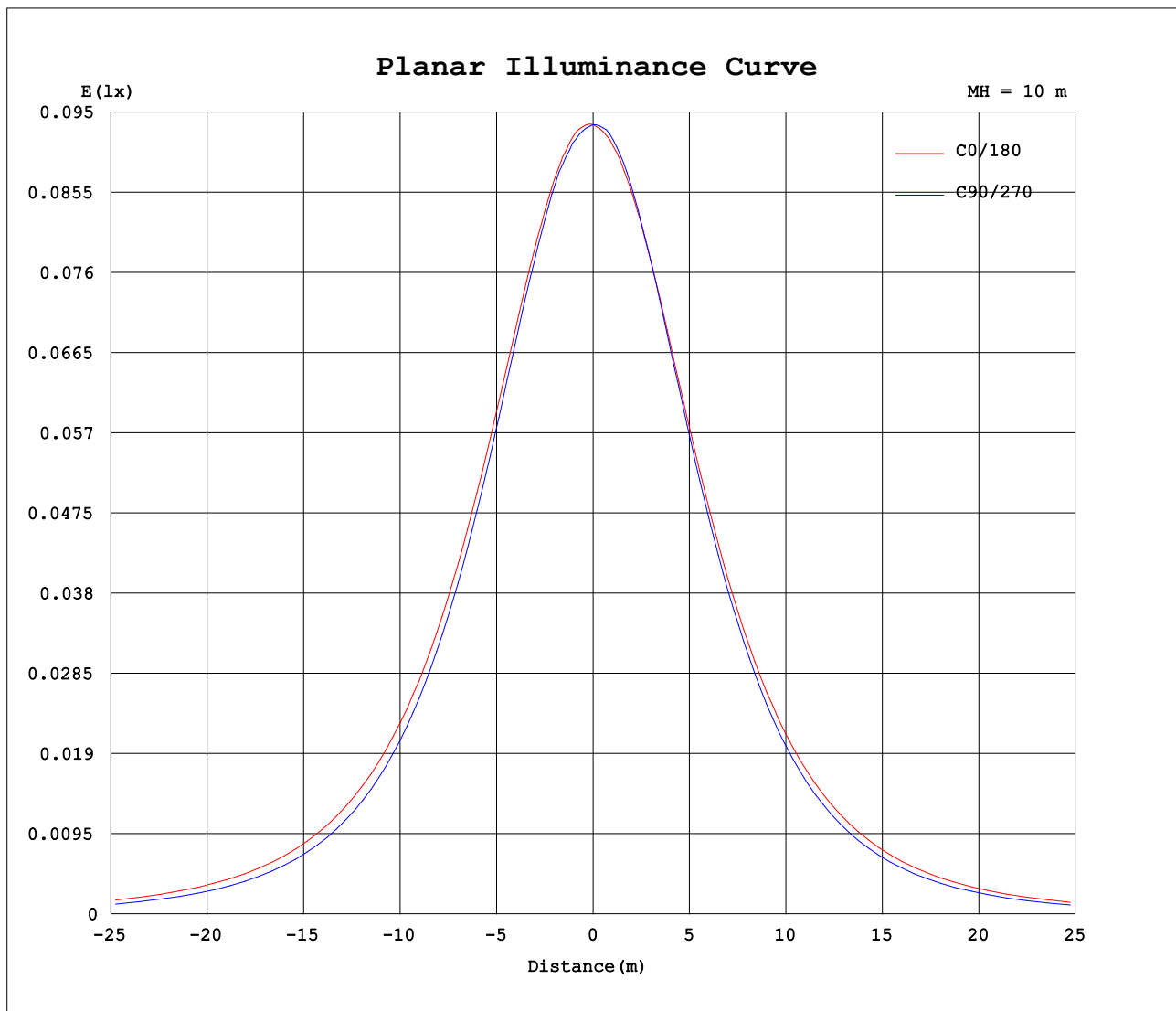
AvgL	cd/m2
L_0~180(65)av	699
L_0~180(75)av	632
L_0~180(85)av	614
L_90~270(65)av	551
L_90~270(75)av	387
L_90~270(85)av	38
L_45(65)av	700
L_45(75)av	638
L_45(85)av	593

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

$\gamma$  Range: 0 - 120DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 9.200m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.1925A P:4.620W PF:1.000 Freq:50.00Hz Lamp Flux:26.5838x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000)-R	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122911
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	9.35	9.38	9.35	9.35	9.37	9.36	9.35	9.38	9.35	9.35	9.37	9.36						
5	9.37	9.35	9.38	9.29	9.32	9.25	9.28	9.32	9.28	9.34	9.33	9.37						
10	9.26	9.24	9.29	9.20	9.17	9.07	9.12	9.16	9.12	9.20	9.22	9.33						
15	9.07	9.07	9.09	8.95	8.92	8.82	8.89	8.91	8.84	8.92	8.99	9.16						
20	8.80	8.81	8.79	8.62	8.59	8.49	8.58	8.58	8.48	8.53	8.66	8.87						
25	8.45	8.47	8.39	8.20	8.19	8.09	8.20	8.18	8.08	8.09	8.26	8.54						
30	8.02	8.05	7.93	7.70	7.72	7.61	7.75	7.72	7.61	7.57	7.78	8.15						
35	7.54	7.55	7.42	7.13	7.20	7.07	7.22	7.19	7.10	6.97	7.29	7.69						
40	6.99	7.01	6.87	6.51	6.63	6.48	6.65	6.62	6.54	6.34	6.79	7.17						
45	6.41	6.43	6.29	5.82	6.00	5.84	6.03	5.99	5.91	5.64	6.25	6.60						
50	5.76	5.79	5.66	5.10	5.32	5.15	5.36	5.31	5.25	4.90	5.63	5.98						
55	5.07	5.11	4.99	4.35	4.61	4.43	4.65	4.60	4.55	4.14	4.96	5.31						
60	4.36	4.41	4.29	3.58	3.88	3.68	3.91	3.85	3.82	3.36	4.28	4.60						
65	3.63	3.67	3.58	2.78	3.11	2.91	3.16	3.10	3.08	2.57	3.56	3.89						
70	2.88	2.92	2.83	1.99	2.34	2.14	2.39	2.33	2.30	1.79	2.83	3.14						
75	2.12	2.16	2.09	1.26	1.59	1.42	1.64	1.59	1.55	1.05	2.07	2.38						
80	1.41	1.44	1.36	0.56	0.89	0.78	0.98	0.92	0.85	0.41	1.35	1.64						
85	0.77	0.76	0.70	0.06	0.37	0.34	0.46	0.42	0.30	0.02	0.67	0.96						
90	0.36	0.31	0.25	0.06	0.15	0.13	0.14	0.15	0.05	0.00	0.19	0.42						
95	0.14	0.11	0.11	0.06	0.13	0.11	0.06	0.08	0.06	0.00	0.06	0.16						
100	0.07	0.07	0.10	0.06	0.11	0.09	0.06	0.07	0.05	0.00	0.06	0.06						
105	0.07	0.07	0.09	0.07	0.09	0.07	0.06	0.07	0.05	0.00	0.05	0.06						
110	0.07	0.07	0.09	0.07	0.09	0.05	0.06	0.07	0.07	0.00	0.06	0.06						
115	0.07	0.07	0.09	0.07	0.09	0.03	0.06	0.07	0.07	0.00	0.04	0.04						
120	0.07	0.07	0.08	0.07	0.12	0.01	0.06	0.07	0.07	0.02	0.05	0.06						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

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:



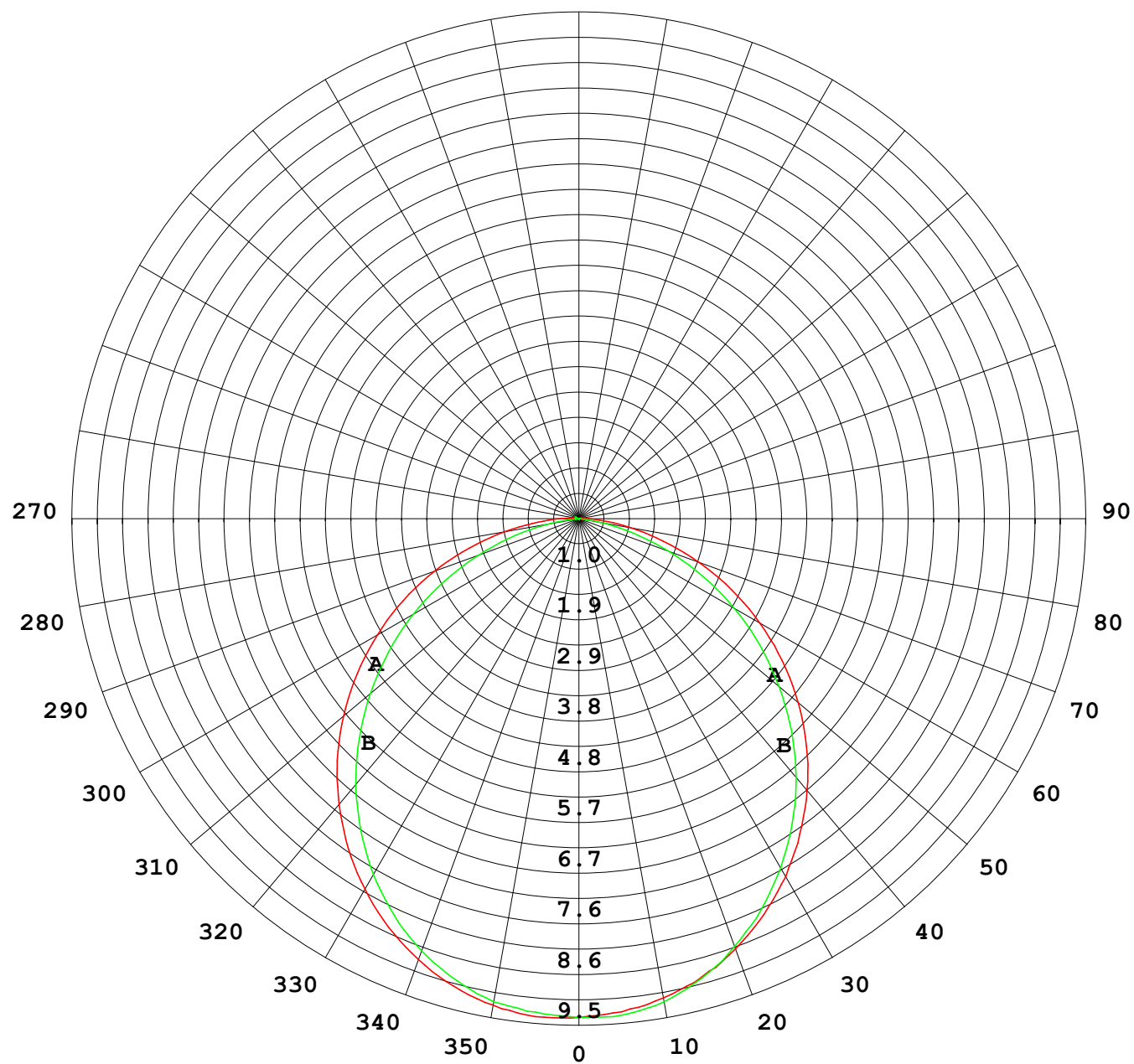
## Photometric Data Table [cd]

93.0	0.0603	0.2417
96.0	0.0603	0.1260
99.0	0.0603	0.0606
102.0	0.0452	0.0553
105.0	0.0503	0.0603
108.0	0.0503	0.0603
111.0	0.0452	0.0205
114.0	0.0402	0.0351
117.0	0.0300	0.0503
120.0	0.0503	0.0603

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:

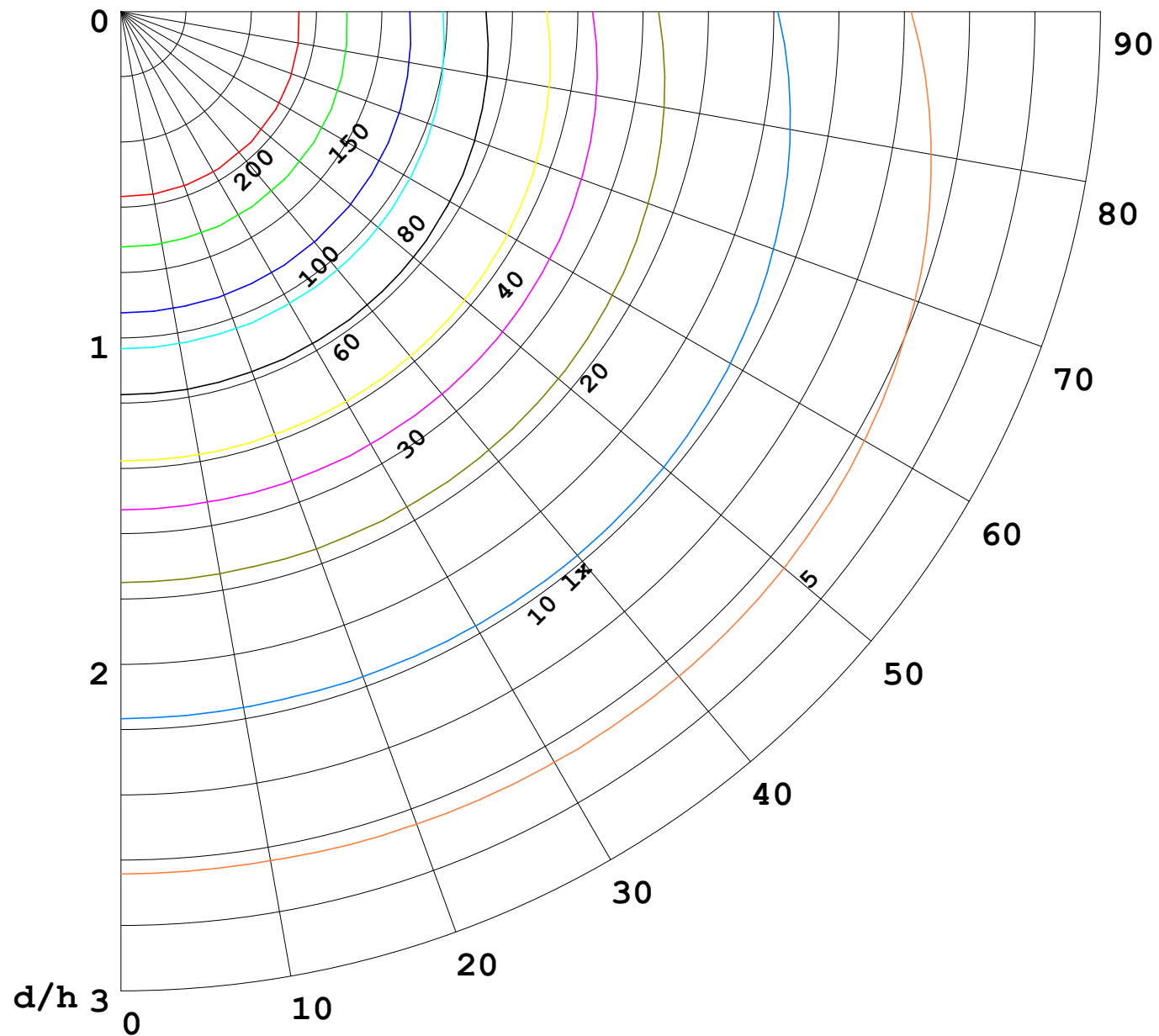
I (cd)





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

