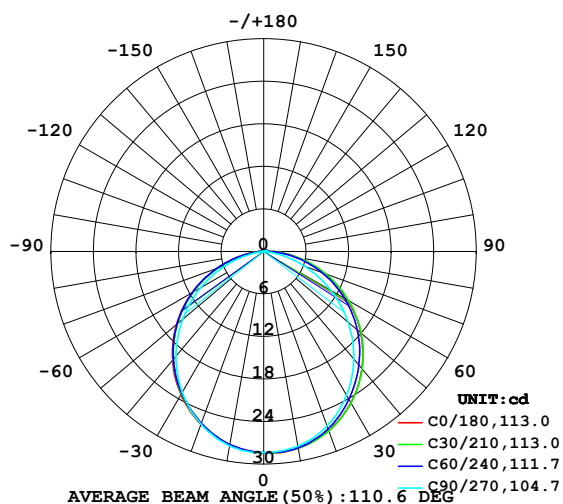


## LUMINAIRE PHOTOMETRIC TEST REPORT

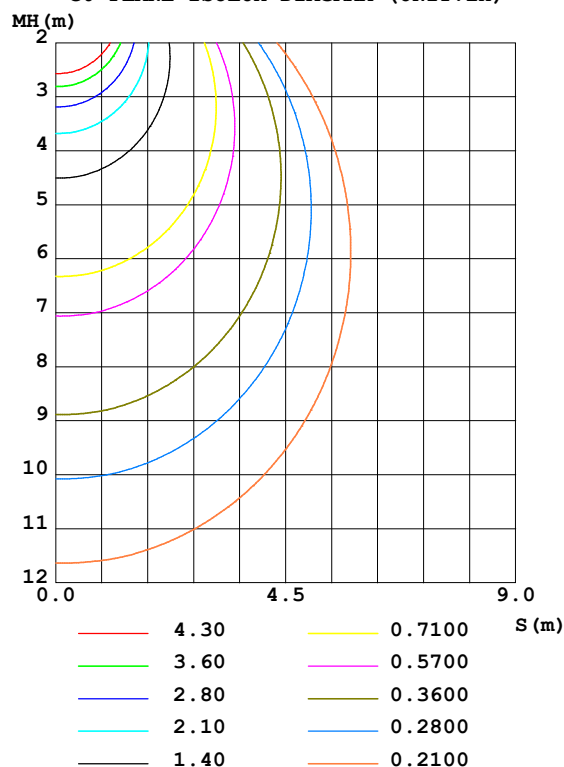
Test:U:24.00V I:0.1920A P:4.608W PF:1.000 Freq:50.00Hz Lamp Flux:81.5592x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000) -G	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122912
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 17.70 lm/W			
MODEL	5050	I <sub>max</sub> (cd)	28.45	S/MH (C0/180)	1.23
NOMINAL POWER(W)	3.75	LOR(%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	81.559	η UP,DN(C0-180)	0.8,50.0
NOMINAL FLUX(lm)	81.5592	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,48.7
LAMPS INSIDE	1	η up (%)	1.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	η down (%)	98.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



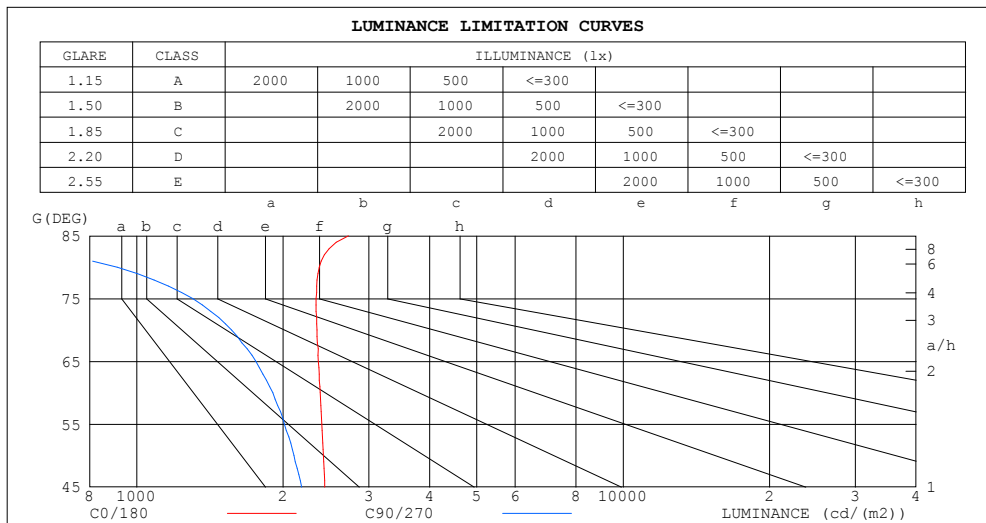
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: LPC  
Test Date: 2021-12-29

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:



## LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.1920A P:4.608W PF:1.000 Freq:50.00Hz Lamp Flux:81.5592x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000) -G	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122912
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:



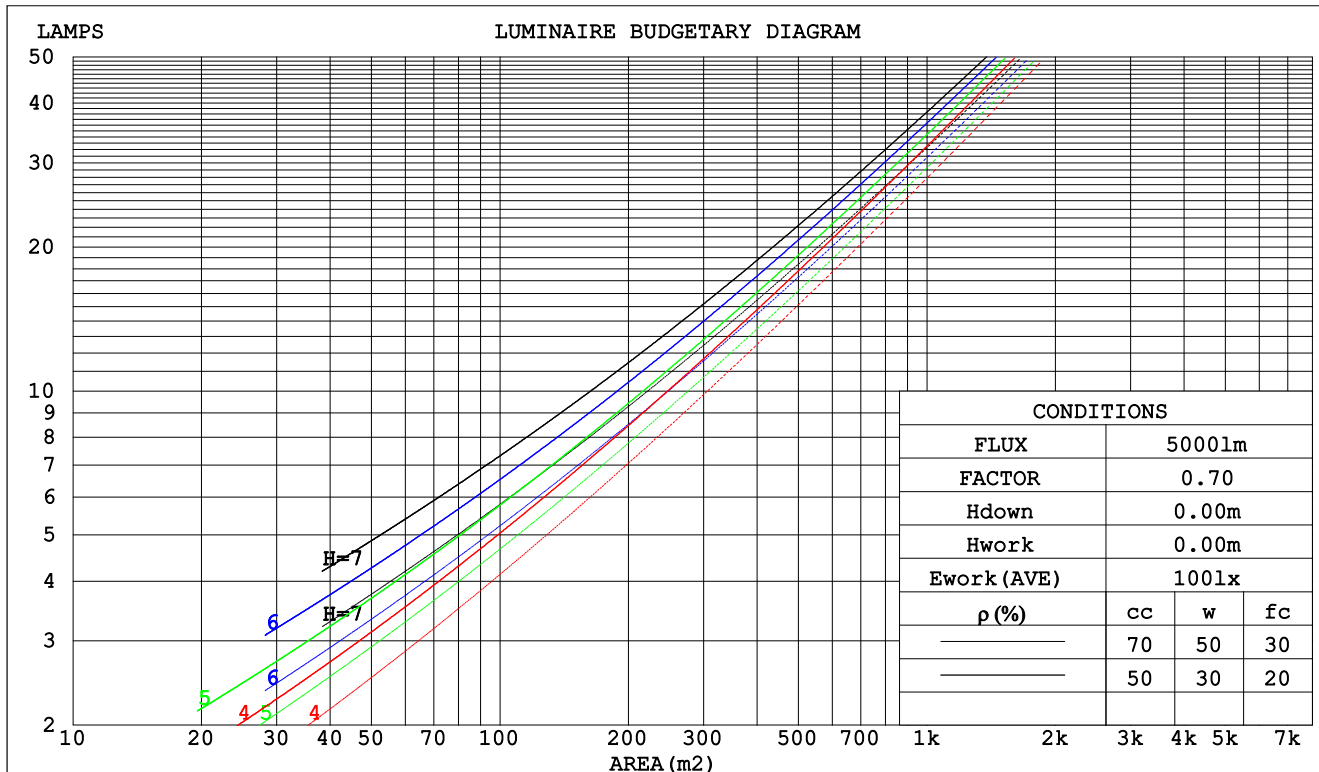
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LPC  
Test Date:2021-12-29

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:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.1920A P:4.608W PF:1.000 Freq:50.00Hz Lamp Flux:81.5592x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000) -G	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122912
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	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.90	.87	.88	.86	.84	.82
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.76	.72	.77	.74	.70	.68
3.0	.79	.71	.64	.77	.70	.63	.74	.67	.62	.71	.66	.61	.68	.64	.60	.57
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.51	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.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	.33	.28	.40	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



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:0.1920A P:4.608W PF:1.000 Freq:50.00Hz Lamp Flux:81.5592x1 lm										
NAME: SF15-24V-5050-56-SPI4-RGBW(3000) -G					TYPE: 硅胶			WEIGHT:		
SPEC.:					DIM.: 21mm*11.5mm			SERIAL No.:2021122912		
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	24.9	26.4	25.2	26.6	26.9	24.2	25.7	24.5	25.9	26.2
3H	26.6	28.0	27.0	28.3	28.6	25.6	27.0	25.9	27.2	27.5
4H	27.4	28.7	27.7	29.0	29.3	26.0	27.3	26.4	27.6	27.9
6H	28.1	29.3	28.4	29.6	29.9	26.3	27.5	26.6	27.8	28.1
8H	28.3	29.5	28.7	29.8	30.2	26.3	27.5	26.6	27.8	28.1
12H	28.5	29.7	28.9	30.0	30.4	26.3	27.4	26.6	27.7	28.1
4H 2H	25.5	26.9	25.9	27.1	27.4	25.0	26.4	25.4	26.6	26.9
3H	27.5	28.7	27.9	29.0	29.3	26.7	27.8	27.0	28.1	28.5
4H	28.4	29.5	28.8	29.8	30.2	27.3	28.4	27.7	28.7	29.1
6H	29.2	30.2	29.6	30.5	30.9	27.7	28.6	28.1	29.0	29.4
8H	29.6	30.4	30.0	30.8	31.2	27.8	28.7	28.2	29.0	29.5
12H	29.9	30.7	30.3	31.1	31.5	27.8	28.6	28.2	29.0	29.4
8H 4H	28.7	29.6	29.2	30.0	30.4	27.8	28.7	28.2	29.1	29.5
6H	29.7	30.5	30.2	30.9	31.4	28.4	29.2	28.9	29.6	30.1
8H	30.2	30.9	30.7	31.3	31.8	28.6	29.3	29.1	29.7	30.2
12H	30.7	31.2	31.2	31.7	32.2	28.8	29.3	29.2	29.8	30.3
12H 4H	28.8	29.6	29.2	30.0	30.4	27.9	28.7	28.3	29.1	29.5
6H	29.8	30.5	30.3	30.9	31.4	28.6	29.2	29.1	29.7	30.2
8H	30.4	30.9	30.9	31.4	31.9	28.9	29.5	29.4	29.9	30.4
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, 81.56 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -8.7)

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:0.1920A P:4.608W PF:1.000 Freq:50.00Hz Lamp Flux:81.5592x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000) -G	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122912
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

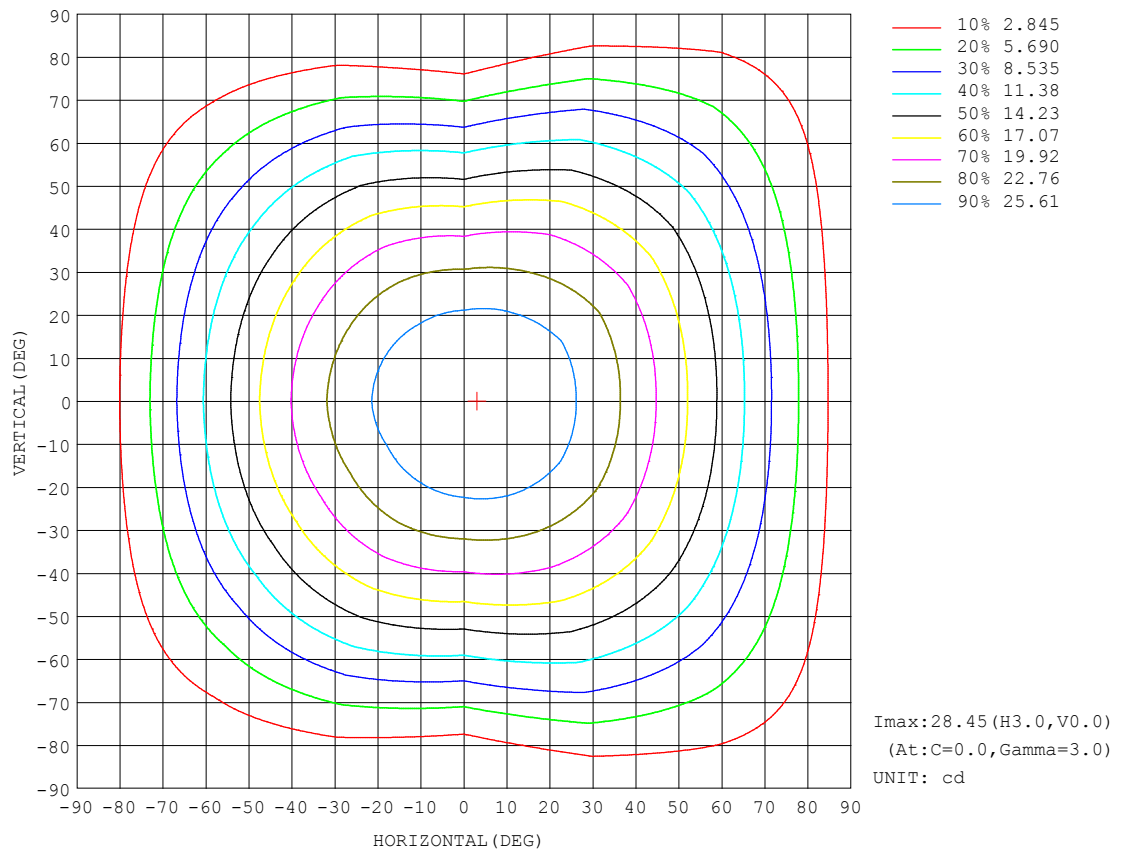
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	49
1.25	82	72	65	81	71	64	78	69	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	68
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	94	89	99	93	88	95	90	85	77
4.00	106	100	95	103	98	93	99	94	91	81
5.00	108	103	99	105	101	97	101	97	94	84
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:0.1920A P:4.608W PF:1.000 Freq:50.00Hz Lamp Flux:81.5592x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000)-G	TYPE:硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122912
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

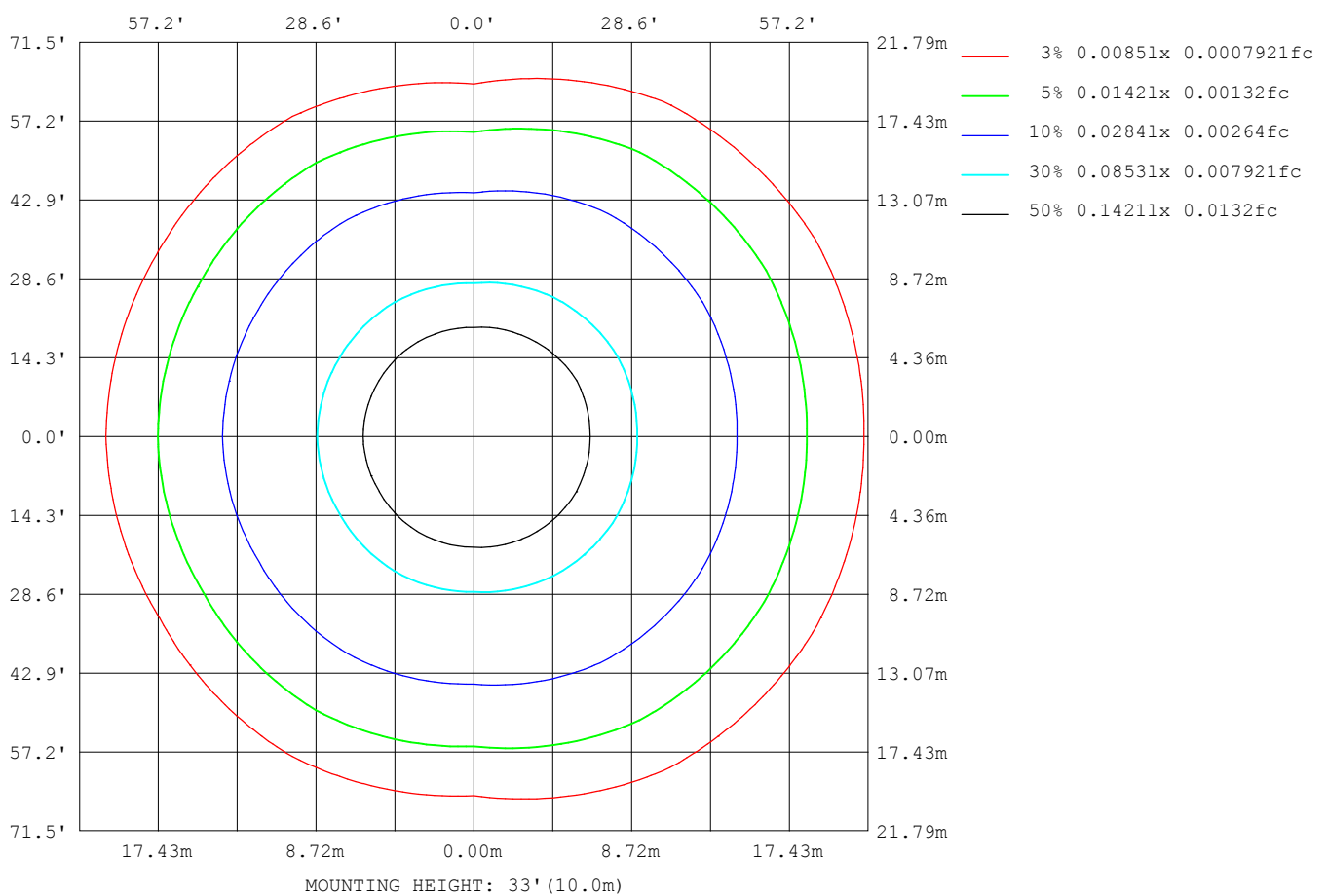
γ Range: 0 - 120DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:9.200m [K=1.0000]  
 Remarks:





## ISOLUX DIAGRAM

Test:U:24.00V I:0.1920A P:4.608W PF:1.000 Freq:50.00Hz Lamp Flux:81.5592x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000)-G	TYPE:硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122912
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:0.1920A P:4.608W PF:1.000 Freq:50.00Hz Lamp Flux:81.5592x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW(3000)-G	TYPE:硅胶	WEIGHT:
SPEC.:	DIM.: 21mm*11.5mm	SERIAL No.:2021122912
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

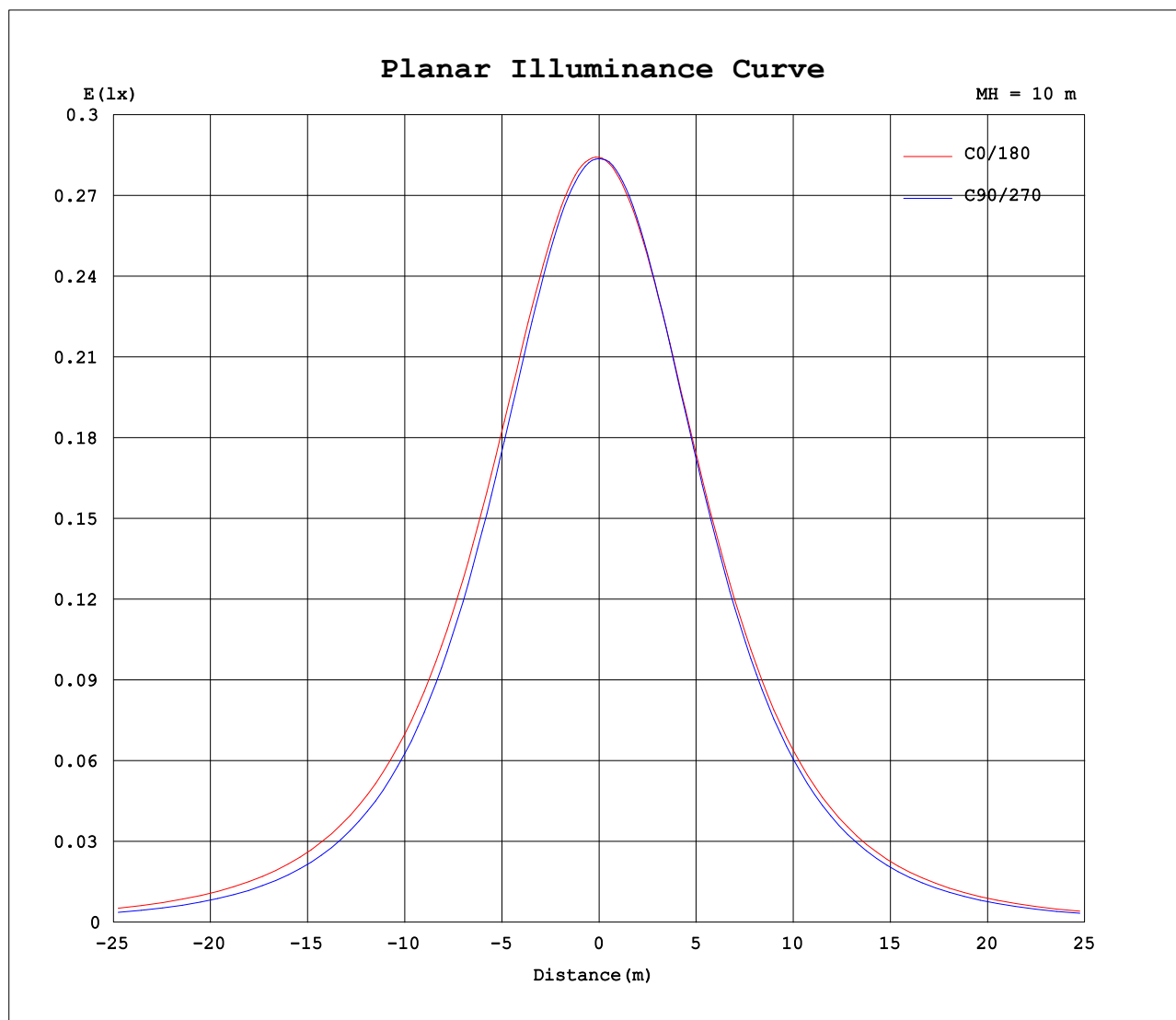
AvgL	cd/m2
L_0~180 (65) av	2143
L_0~180 (75) av	1979
L_0~180 (85) av	2064
L_90~270 (65) av	1690
L_90~270 (75) av	1201
L_90~270 (85) av	268
L_45 (65) av	2143
L_45 (75) av	1982
L_45 (85) av	1969

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:



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)-G\SF15-24V-5050-56-SPI

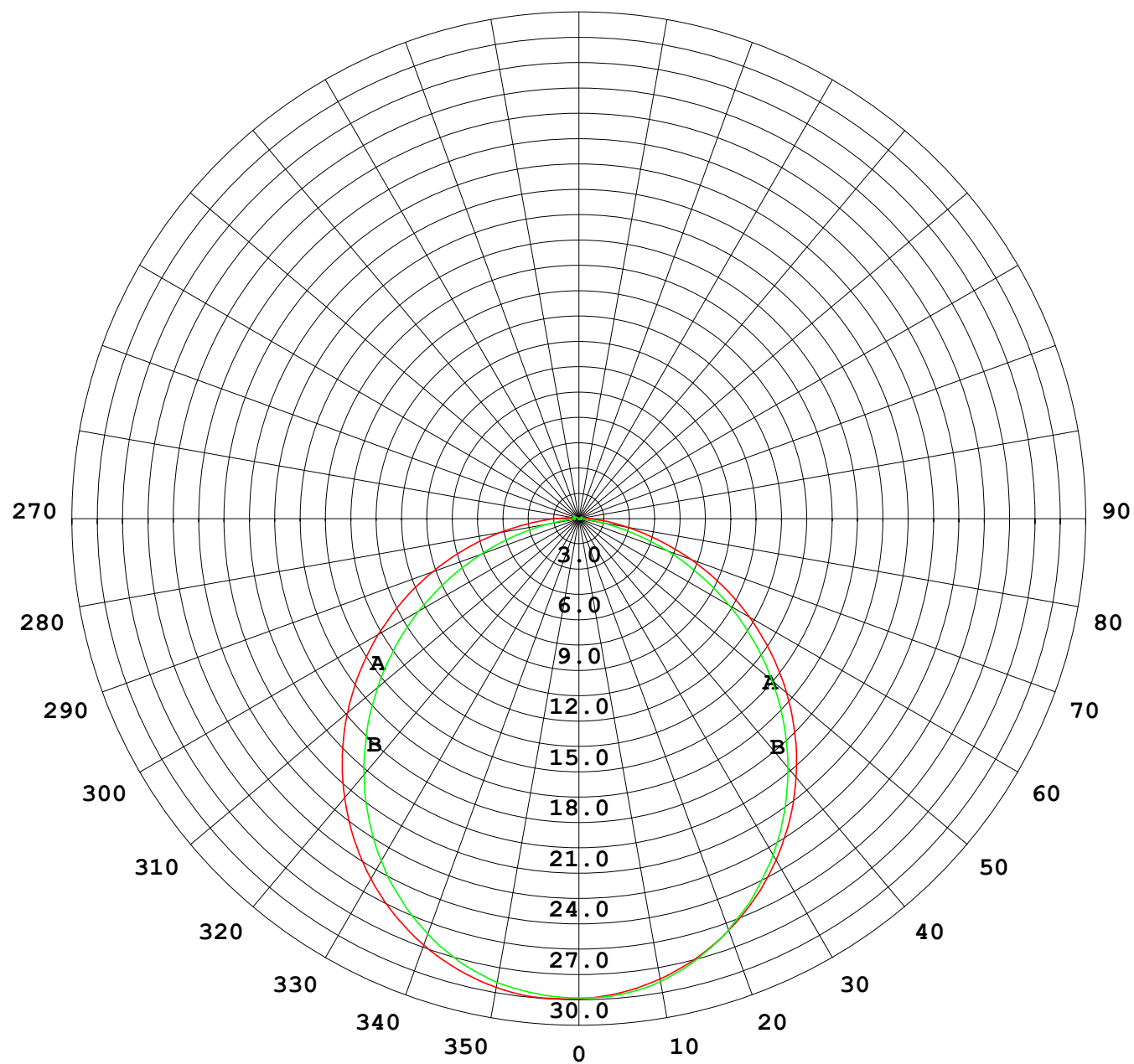
## Photometric Data Table [cd]

93.0	0.3812	0.8357
96.0	0.2713	0.5085
99.0	0.2613	0.2970
102.0	0.2412	0.2774
105.0	0.2614	0.2786
108.0	0.2823	0.2798
111.0	0.2848	0.2810
114.0	0.2887	0.2843
117.0	0.2660	0.2886
120.0	0.2161	0.2965

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:

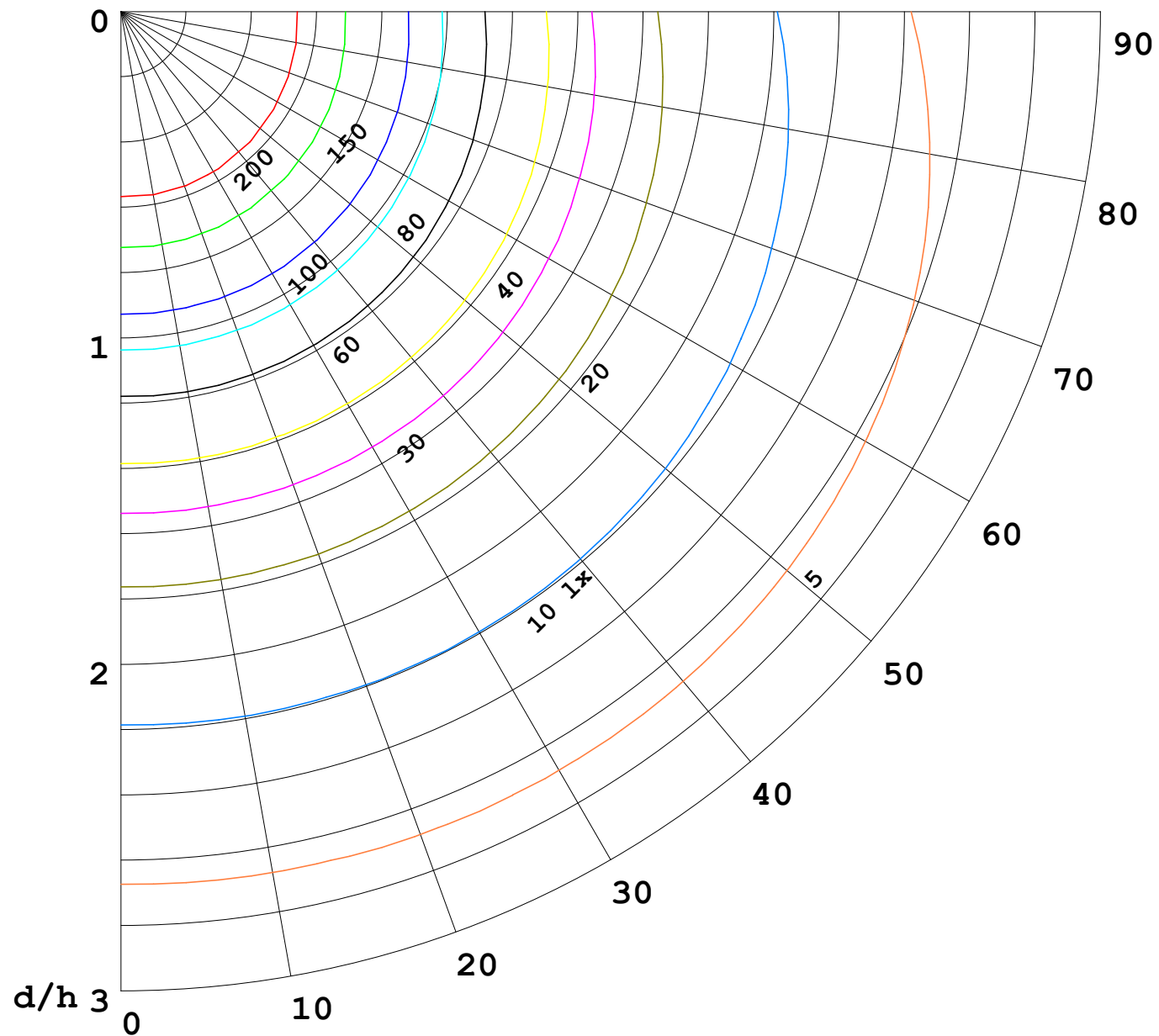
I (cd)





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

