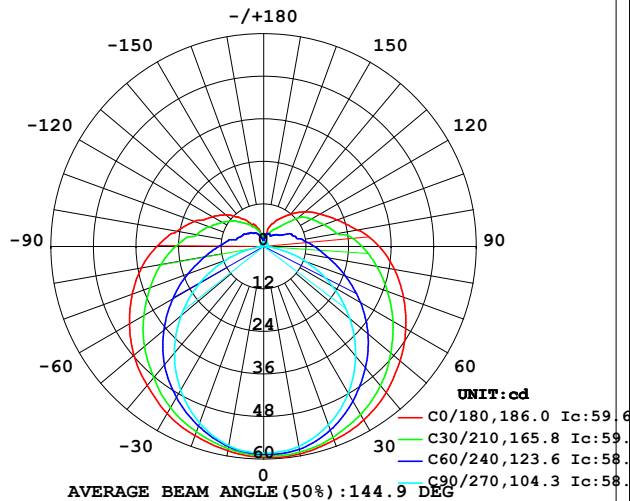


## LUMINAIRE PHOTOMETRIC TEST REPORT

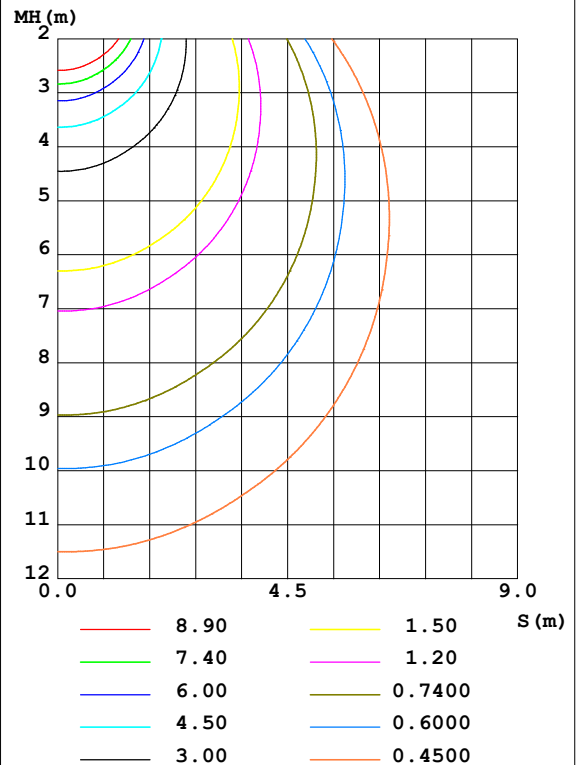
Test:U:24.00V I:0.8338A P:20.01W PF:1.000 Freq:50.00Hz Lamp Flux:289.57lx1 lm		
NAME: SF21-24V-5050-70-DMX4-RGBW(3000)	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 28mm*11.5mm	SERIAL No.:2021121611
MFR.: OLYMPIA	SUR.:1*0.016	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 14.47 lm/W			
MODEL	5050	I <sub>max</sub> (cd)	59.62	S/MH (C0/180)	1.37
NOMINAL POWER (W)	4.5	LOR (%)	100.0	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	289.57	η UP, DN (C0-180)	11.3, 39.2
NOMINAL FLUX (lm)	289.571	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	11.0, 38.5
LAMPS INSIDE	1	η up (%)	22.3	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	24	η down (%)	77.7	CIBSE SHR MAX	1.55

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: 2021-12-16

γ Range: 0 - 180DEG  
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:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	59.38	58.50	57.27	56.78	58.50	57.62	57.04	57.54	0- 10	5.554	5.554	1.92,1.92
20	58.13	56.21	53.54	54.00	56.78	54.75	52.99	54.98	10- 20	15.99	21.54	7.44,7.44
30	56.51	52.55	47.77	50.20	54.47	50.90	46.82	51.25	20- 30	24.61	46.15	15.9,15.9
40	53.80	47.96	40.37	45.27	51.12	45.92	39.18	46.87	30- 40	30.66	76.81	26.5,26.5
50	50.24	42.63	31.71	39.81	47.80	40.37	30.48	41.83	40- 50	33.74	110.5	38.2,38.2
60	46.30	36.82	22.43	33.93	43.73	34.33	20.95	36.20	50- 60	33.81	144.4	49.9,49.9
70	41.99	30.91	12.86	28.16	39.47	28.46	11.39	30.43	60- 70	31.28	175.6	60.7,60.7
80	37.48	25.51	4.161	23.01	35.01	23.19	3.136	25.14	70- 80	27.00	202.6	70,70
90	32.58	21.05	0.8703	18.72	30.14	18.77	0.5531	20.72	80- 90	22.38	225.0	77.7,77.7
100	26.73	16.12	0.9221	14.70	24.90	14.67	0.6630	16.13	90-100	18.33	243.3	84,84
110	22.06	13.50	0.9930	11.81	20.83	11.84	0.7315	13.62	100-110	14.13	257.5	88.9,88.9
120	18.36	11.11	1.061	10.09	16.78	10.15	0.7688	11.32	110-120	11.08	268.6	92.7,92.7
130	15.29	8.803	1.126	8.556	13.92	8.471	0.8694	9.424	120-130	8.401	277.0	95.6,95.6
140	11.89	5.934	1.196	6.895	10.82	6.865	0.9798	6.630	130-140	5.777	282.7	97.6,97.6
150	9.084	4.535	1.313	5.568	7.576	5.489	1.141	4.855	140-150	3.594	286.3	98.9,98.9
160	6.726	3.837	1.320	4.084	5.838	4.104	1.211	3.813	150-160	2.083	288.4	99.6,99.6
170	2.674	3.375	1.327	2.493	2.572	2.694	1.266	3.370	160-170	0.9508	289.4	99.9,99.9
180	1.432	1.387	1.332	1.347	1.437	1.387	1.317	1.352	170-180	0.2148	289.6	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 93.483 lm

%lum = 32.3%

%lamp = 32.3%

Conical surface Flux(120deg): 144.36 lm

%lum = 49.9%

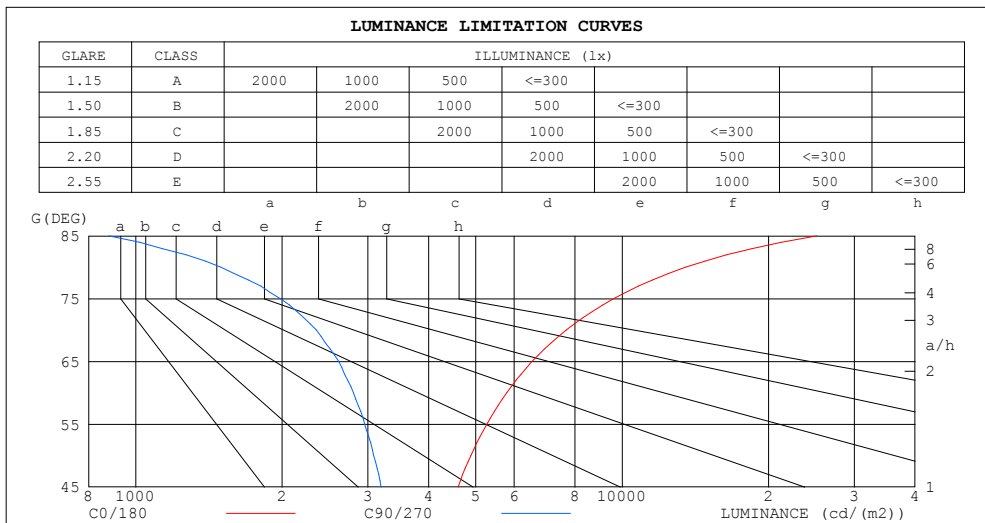
%lamp = 49.9%

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LPC  
 Test Date:2021-12-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:9.200m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.8338A P:20.01W PF:1.000 Freq:50.00Hz Lamp Flux:289.57lx1 lm		
NAME: SF21-24V-5050-70-DMX4-RGBW(3000)	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 28mm*11.5mm	SERIAL No.:2021121611
MFR.: OLYMPIA	SUR.:1*0.016	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	25149	881
80	13489	1497
75	9602	1980
70	7674	2350
65	6531	2613
60	5788	2804
55	5268	2955
50	4885	3084
45	4600	3195

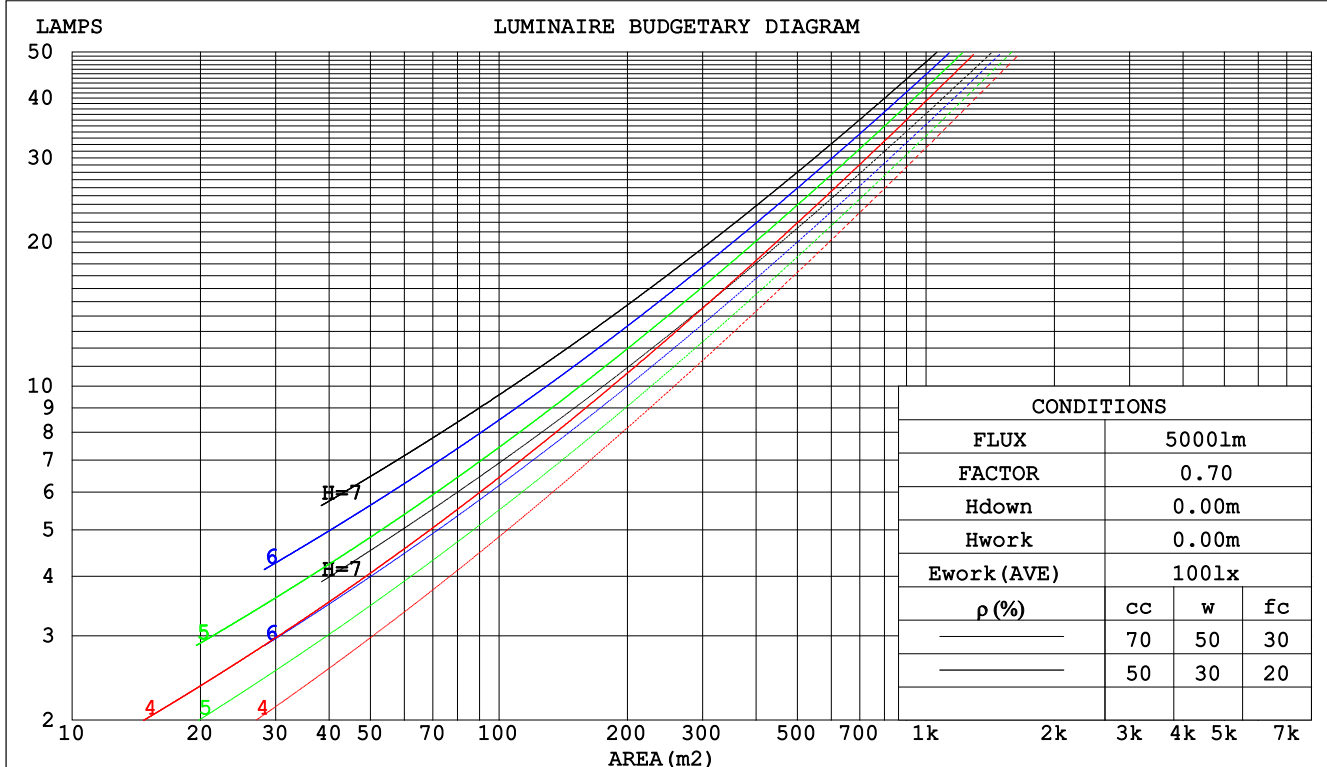
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LPC  
Test Date:2021-12-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:9.200m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.8338A P:20.01W PF:1.000 Freq:50.00Hz Lamp Flux:289.57lx1 lm		
NAME: SF21-24V-5050-70-DMX4-RGBW(3000)	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 28mm*11.5mm	SERIAL No.:2021121611
MFR.: OLYMPIA	SUR.:1*0.016	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	1.14	1.14	1.14	1.09	1.09	1.09	.99	.99	.99	.90	.90	.90	.82	.82	.82	.78
1.0	.95	.89	.84	.90	.85	.81	.82	.78	.74	.74	.71	.68	.67	.64	.62	.58
2.0	.81	.73	.66	.77	.70	.64	.70	.64	.59	.63	.58	.54	.57	.53	.50	.46
3.0	.70	.61	.54	.67	.58	.52	.60	.54	.48	.55	.49	.45	.49	.45	.41	.38
4.0	.61	.52	.45	.59	.50	.43	.53	.46	.40	.48	.42	.37	.44	.39	.35	.31
5.0	.54	.45	.38	.52	.43	.37	.47	.40	.34	.43	.37	.32	.39	.34	.30	.27
6.0	.49	.39	.33	.47	.38	.32	.43	.35	.30	.39	.32	.28	.35	.30	.26	.23
7.0	.44	.35	.29	.42	.34	.28	.38	.31	.26	.35	.29	.24	.32	.27	.23	.20
8.0	.40	.31	.25	.38	.30	.25	.35	.28	.23	.32	.26	.22	.29	.24	.20	.18
9.0	.36	.28	.22	.35	.27	.22	.32	.25	.21	.30	.24	.19	.27	.22	.18	.16
10.0	.34	.26	.20	.32	.25	.20	.30	.23	.19	.27	.22	.17	.25	.20	.16	.14



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LPC  
 Test Date:2021-12-16

γ Range: 0 - 180DEG  
 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:0.8338A P:20.01W PF:1.000 Freq:50.00Hz Lamp Flux:289.571x1 lm		
NAME: SF21-24V-5050-70-DMX4-RGBW(3000)	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 28mm*11.5mm	SERIAL No.:2021121611
MFR.: OLYMPIA	SUR.:1*0.016	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 Coefficients(WEC)										
0.0																	
1.0	.387	.220	.070	.373	.213	.068	.347	.199	.064	.322	.186	.060	.300	.174	.056		
2.0	.333	.183	.056	.320	.177	.054	.297	.165	.051	.275	.154	.048	.254	.144	.045		
3.0	.295	.157	.047	.284	.152	.046	.262	.142	.043	.242	.133	.041	.224	.124	.038		
4.0	.265	.138	.041	.255	.133	.039	.235	.125	.037	.217	.117	.035	.200	.109	.033		
5.0	.241	.123	.036	.232	.119	.035	.214	.111	.033	.197	.104	.031	.182	.097	.029		
6.0	.221	.111	.032	.212	.107	.031	.196	.100	.029	.181	.094	.028	.166	.088	.026		
7.0	.204	.101	.029	.196	.098	.028	.181	.091	.026	.167	.085	.025	.154	.080	.023		
8.0	.189	.092	.026	.182	.089	.025	.168	.084	.024	.155	.078	.023	.143	.073	.021		
9.0	.176	.085	.024	.169	.082	.023	.157	.077	.022	.145	.072	.021	.133	.068	.020		
10.0	.165	.079	.022	.158	.077	.021	.147	.072	.020	.136	.067	.019	.125	.063	.018		

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	.360	.360	.360	.308	.308	.308	.210	.210	.210	.121	.121	.121	.039	.039	.039	
1.0	.357	.327	.300	.305	.280	.258	.209	.193	.178	.120	.112	.104	.039	.036	.034	
2.0	.350	.304	.265	.300	.262	.229	.206	.181	.160	.119	.105	.094	.038	.034	.031	
3.0	.343	.288	.244	.294	.248	.212	.202	.172	.148	.116	.101	.087	.037	.033	.029	
4.0	.335	.275	.230	.287	.238	.200	.198	.166	.141	.114	.097	.083	.037	.032	.027	
5.0	.327	.266	.220	.281	.230	.192	.194	.161	.135	.112	.094	.080	.036	.031	.026	
6.0	.320	.258	.213	.275	.223	.186	.190	.156	.131	.110	.092	.078	.036	.030	.026	
7.0	.313	.251	.208	.269	.218	.181	.186	.153	.129	.108	.090	.077	.035	.029	.025	
8.0	.306	.246	.204	.264	.213	.178	.182	.150	.126	.106	.088	.075	.034	.029	.025	
9.0	.300	.241	.201	.258	.209	.176	.179	.147	.125	.104	.087	.074	.034	.029	.025	
10.0	.294	.237	.199	.254	.206	.174	.176	.145	.123	.103	.086	.074	.033	.028	.024	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LPC  
 Test Date:2021-12-16

γ Range: 0 - 180DEG  
 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:0.8338A P:20.01W PF:1.000 Freq:50.00Hz Lamp Flux:289.571x1 lm										
NAME: SF21-24V-5050-70-DMX4-RGBW(3000)					TYPE: 硅胶			WEIGHT:		
SPEC.:					DIM.: 28mm*11.5mm			SERIAL No.:2021121611		
MFR.: OLYMPIA					SUR.:1*0.016			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	22.2	23.5	22.7	24.1	24.7	19.5	20.8	20.0	21.4	22.0
3H	25.0	26.2	25.6	26.8	27.5	20.9	22.1	21.5	22.7	23.4
4H	26.6	27.7	27.2	28.3	29.0	21.5	22.6	22.1	23.2	23.9
6H	28.3	29.4	28.9	30.0	30.8	21.8	22.9	22.4	23.5	24.3
8H	29.3	30.3	29.9	31.0	31.7	21.9	22.9	22.5	23.6	24.3
12H	30.4	31.4	31.1	32.1	32.8	21.9	22.9	22.6	23.6	24.3
4H 2H	22.7	23.9	23.3	24.5	25.2	20.8	22.0	21.4	22.6	23.3
3H	25.8	26.8	26.4	27.4	28.2	22.6	23.6	23.2	24.2	25.0
4H	27.5	28.5	28.2	29.2	29.9	23.3	24.3	24.0	24.9	25.7
6H	29.5	30.4	30.2	31.1	31.9	23.9	24.8	24.6	25.5	26.3
8H	30.6	31.4	31.3	32.1	33.0	24.1	24.9	24.8	25.6	26.5
12H	31.9	32.6	32.6	33.3	34.2	24.3	25.0	25.0	25.7	26.6
8H 4H	27.9	28.7	28.6	29.4	30.2	24.6	25.4	25.3	26.1	27.0
6H	30.2	30.8	30.9	31.6	32.5	25.7	26.3	26.4	27.1	28.0
8H	31.5	32.1	32.3	32.8	33.7	26.1	26.7	26.9	27.5	28.4
12H	33.0	33.5	33.8	34.3	35.2	26.5	27.0	27.3	27.8	28.7
12H 4H	27.9	28.6	28.6	29.3	30.2	25.1	25.8	25.8	26.5	27.4
6H	30.3	30.9	31.0	31.6	32.5	26.4	27.0	27.2	27.7	28.6
8H	31.7	32.2	32.5	33.0	33.9	27.1	27.6	27.8	28.4	29.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.4				

CIE Pub.117, 289.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -4.3)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LPC  
 Test Date:2021-12-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:9.200m [K=1.0000]  
 Remarks:

### UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.8338A P:20.01W PF:1.000 Freq:50.00Hz Lamp Flux:289.57lx1 lm		
NAME: SF21-24V-5050-70-DMX4-RGBW(3000)	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 28mm*11.5mm	SERIAL No.:2021121611
MFR.: OLYMPIA	SUR.:1*0.016	Shielding Angle:

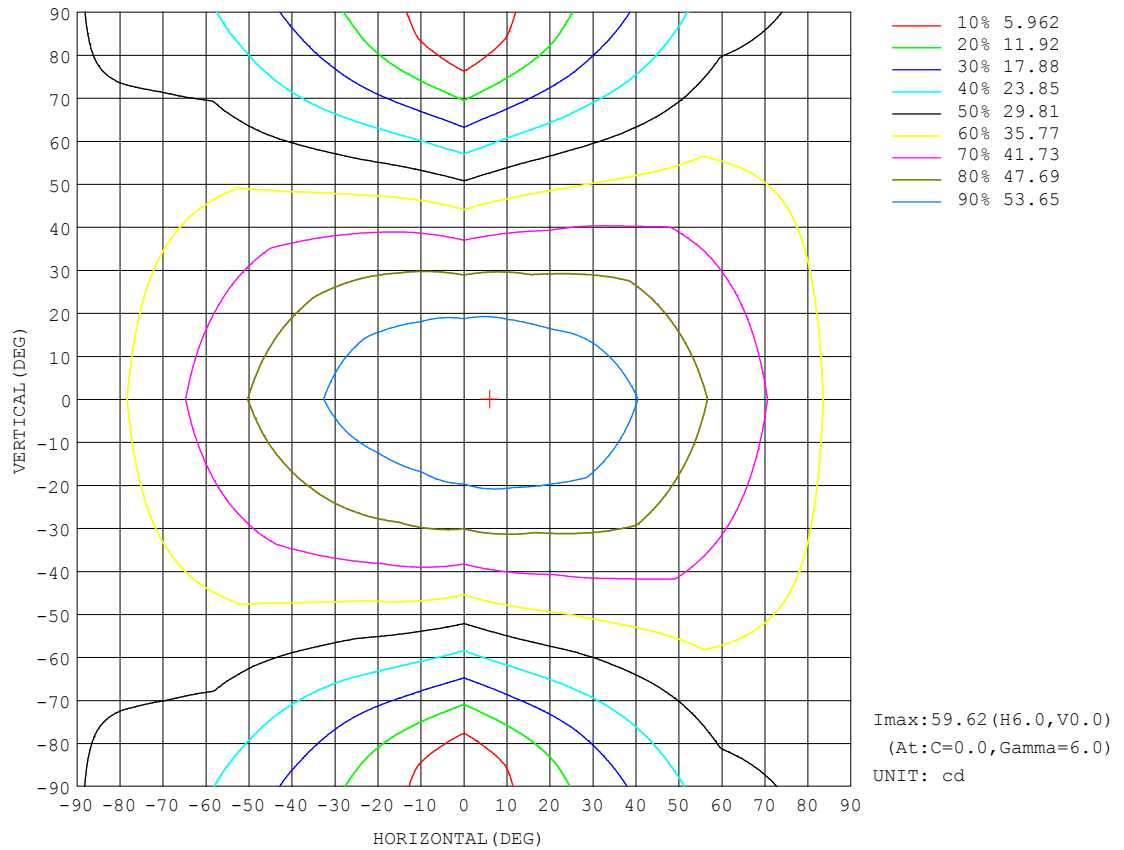
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	46	34	27	45	33	26	43	32	26	19
0.80	55	42	34	54	42	34	51	40	33	25
1.00	63	50	42	61	49	41	57	49	40	30
1.25	70	57	49	67	56	48	63	53	46	36
1.50	75	63	54	72	61	53	67	57	50	39
2.00	82	71	63	79	69	61	73	64	58	45
2.50	87	77	68	83	74	66	76	69	63	49
3.00	91	81	74	87	78	71	79	73	67	52
4.00	95	87	81	91	84	78	83	78	73	57
5.00	99	91	85	94	88	82	86	81	76	60
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:2021-12-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.8338A P:20.01W PF:1.000 Freq:50.00Hz Lamp Flux:289.571x1 lm		
NAME: SF21-24V-5050-70-DMX4-RGBW(3000)	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 28mm*11.5mm	SERIAL No.:2021121611
MFR.: OLYMPIA	SUR.:1*0.016	Shielding Angle:



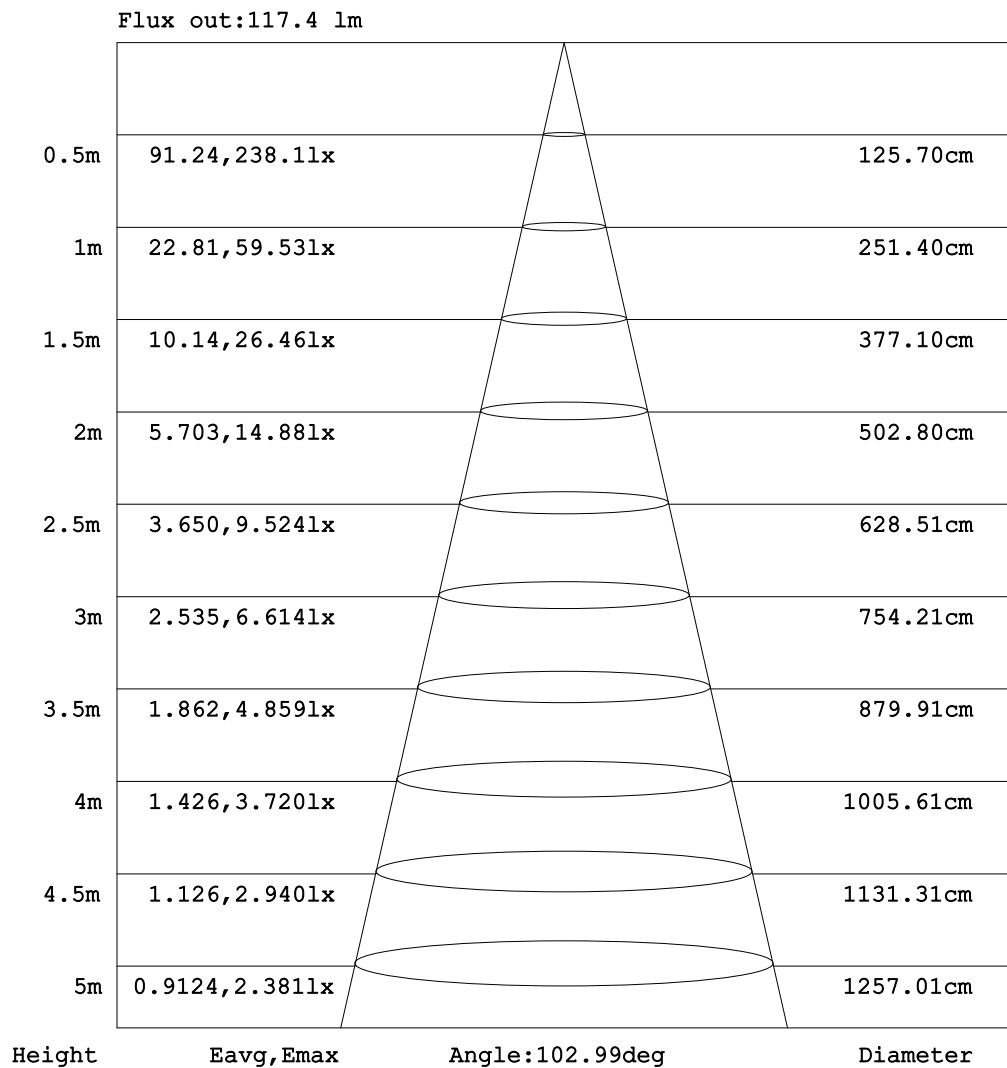
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LPC  
Test Date:2021-12-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.8338A P:20.01W PF:1.000 Freq:50.00Hz Lamp Flux:289.57lx1 lm		
NAME: SF21-24V-5050-70-DMX4-RGBW(3000)	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 28mm*11.5mm	SERIAL No.:2021121611
MFR.: OLYMPIA	SUR.:1*0.016	Shielding Angle:



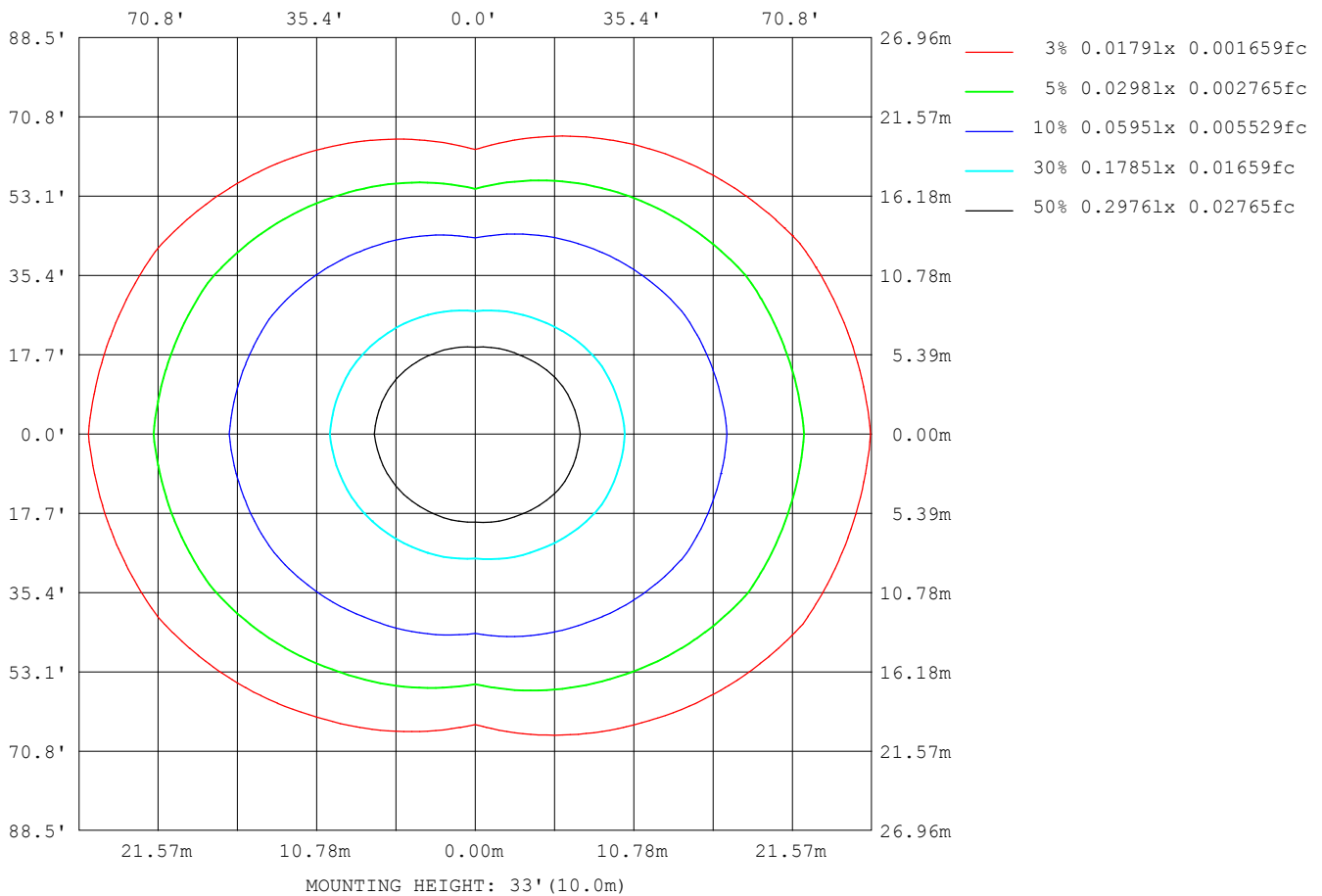
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LPC  
Test Date:2021-12-16

γ Range: 0 - 180DEG  
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:0.8338A P:20.01W PF:1.000 Freq:50.00Hz Lamp Flux:289.57lx1 lm		
NAME: SF21-24V-5050-70-DMX4-RGBW(3000)	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 28mm*11.5mm	SERIAL No.:2021121611
MFR.: OLYMPIA	SUR.:1*0.016	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LPC  
Test Date:2021-12-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:9.200m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:24.00V I:0.8338A P:20.01W PF:1.000 Freq:50.00Hz Lamp Flux:289.571x1 lm		
NAME: SF21-24V-5050-70-DMX4-RGBW(3000)	TYPE:硅胶	WEIGHT:
SPEC.:	DIM.: 28mm*11.5mm	SERIAL No.:2021121611
MFR.: OLYMPIA	SUR.:1*0.016	Shielding Angle:

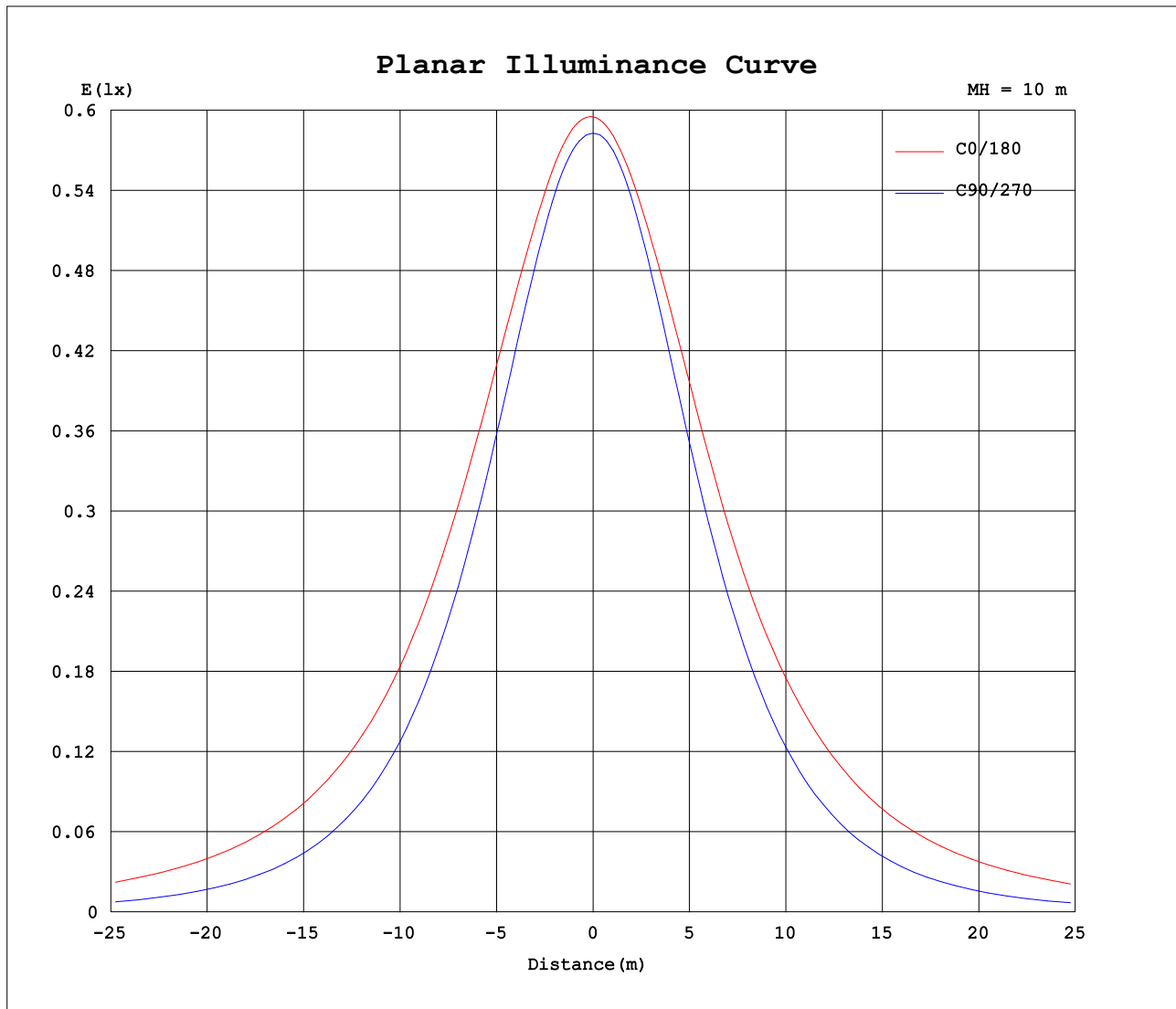
AvgL	cd/m2
L_0~180 (65) av	6343
L_0~180 (75) av	9302
L_0~180 (85) av	24280
L_90~270 (65) av	2506
L_90~270 (75) av	1830
L_90~270 (85) av	702
L_45 (65) av	4831
L_45 (75) av	6568
L_45 (85) av	16122

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LPC  
Test Date:2021-12-16

γ Range: 0 - 180DEG  
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: 2021-12-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.8338A P:20.01W PF:1.000 Freq:50.00Hz Lamp Flux:289.571x1 lm		
NAME: SF21-24V-5050-70-DMX4-RGBW(3000)	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 28mm*11.5mm	SERIAL No.:2021121611
MFR.: OLYMPIA	SUR.:1*0.016	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	59.5	59.1	58.6	58.3	58.1	57.9	59.5	59.1	58.6	58.3	58.1	57.9						
5	59.6	59.2	58.6	58.1	57.7	57.5	59.1	58.7	58.2	58.0	58.0	58.0						
10	59.4	58.9	58.1	57.3	56.8	56.7	58.5	57.9	57.3	57.0	57.3	57.7						
15	58.8	58.3	56.8	55.7	55.4	55.7	57.7	56.8	55.8	55.3	56.0	57.0						
20	58.1	57.3	55.1	53.5	53.4	54.6	56.8	55.6	53.9	53.0	54.1	55.8						
25	57.5	56.0	52.9	50.9	51.2	53.2	55.8	54.2	51.7	50.1	51.8	54.6						
30	56.5	54.7	50.4	47.8	48.8	51.6	54.5	52.6	49.2	46.8	49.1	53.4						
35	55.3	53.1	47.6	44.2	46.1	49.6	52.9	50.6	46.5	43.1	46.3	51.9						
40	53.8	51.3	44.7	40.4	43.1	47.4	51.1	48.3	43.6	39.2	43.6	50.2						
45	52.0	49.2	41.6	36.1	39.9	45.3	49.6	46.1	40.3	35.0	40.8	48.2						
50	50.2	46.8	38.4	31.7	36.4	43.2	47.8	43.9	36.8	30.5	37.8	45.9						
55	48.3	44.5	35.0	27.1	32.9	40.9	45.8	41.5	33.2	25.8	34.5	43.6						
60	46.3	42.1	31.5	22.4	29.4	38.4	43.7	39.0	29.7	21.0	31.1	41.3						
65	44.2	39.6	28.0	17.7	26.0	36.0	41.6	36.5	26.2	16.2	27.6	38.9						
70	42.0	37.2	24.7	12.9	22.6	33.7	39.5	34.1	22.8	11.4	24.3	36.5						
75	39.8	34.8	21.4	8.20	19.6	31.4	37.3	31.8	19.6	6.96	21.2	34.2						
80	37.5	32.4	18.6	4.16	16.9	29.1	35.0	29.5	16.9	3.14	18.3	31.9						
85	35.1	30.1	16.2	1.23	14.7	26.9	32.6	27.2	14.6	0.73	16.0	29.7						
90	32.6	27.8	14.3	0.87	12.8	24.6	30.1	24.8	12.7	0.55	14.0	27.4						
95	30.0	25.4	12.6	0.86	11.4	22.5	27.7	22.7	11.2	0.55	12.4	25.1						
100	26.7	21.0	11.2	0.92	10.4	19.0	24.9	19.2	10.1	0.66	11.2	21.1						
105	24.3	19.5	9.56	0.96	7.95	17.8	22.8	17.9	7.95	0.72	9.46	19.7						
110	22.1	18.1	8.93	0.99	7.71	15.9	20.8	16.1	7.56	0.73	9.13	18.1						
115	20.1	16.7	8.39	1.03	7.19	14.4	18.2	14.9	6.97	0.75	8.15	16.6						
120	18.4	15.5	6.68	1.06	6.90	13.3	16.8	13.6	6.71	0.77	7.27	15.4						
125	16.8	14.4	5.63	1.10	6.35	12.3	15.3	12.3	6.13	0.84	6.59	14.2						
130	15.3	12.4	5.19	1.13	5.87	11.2	13.9	11.2	5.71	0.87	6.14	12.7						
135	13.6	9.57	4.75	1.16	5.60	10.0	12.0	9.71	5.49	0.92	5.30	10.5						
140	11.9	7.62	4.25	1.20	5.04	8.75	10.8	8.71	5.02	0.98	4.72	8.54						
145	10.4	6.31	3.81	1.22	4.65	7.70	9.34	7.83	4.62	1.03	4.22	7.08						
150	9.08	5.46	3.61	1.31	4.34	6.80	7.58	6.53	4.45	1.14	3.70	6.01						
155	7.91	4.58	3.95	1.32	3.84	5.90	7.00	5.93	3.90	1.18	3.64	5.04						
160	6.73	3.75	3.92	1.32	3.22	4.94	5.84	5.06	3.15	1.21	3.59	4.04						
165	5.45	3.08	3.75	1.32	2.58	4.08	4.84	4.05	2.62	1.25	3.50	3.53						
170	2.67	3.33	3.42	1.33	2.06	2.93	2.57	3.24	2.14	1.27	3.34	3.40						
175	2.45	2.98	2.59	1.33	1.38	1.94	1.87	2.17	1.36	1.28	2.58	3.06						
180	1.43	1.41	1.36	1.33	1.35	1.35	1.44	1.41	1.36	1.32	1.34	1.36						

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LPC  
Test Date:2021-12-16

γ Range: 0 - 180DEG  
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	59.51	59.11	58.63	58.27	58.08	57.88	59.51	59.11	58.63	58.27
3.0	59.60	59.16	58.67	58.20	57.93	57.67	59.33	58.89	58.45	58.21
6.0	59.62	59.14	58.56	57.96	57.58	57.34	59.05	58.53	58.11	57.91
9.0	59.46	58.98	58.24	57.49	57.06	56.89	58.65	58.09	57.57	57.30
12.0	59.20	58.68	57.66	56.69	56.29	56.33	58.18	57.51	56.79	56.40
15.0	58.83	58.26	56.84	55.68	55.36	55.71	57.67	56.83	55.82	55.34
18.0	58.40	57.74	55.86	54.45	54.25	55.02	57.13	56.12	54.69	53.96
21.0	58.01	57.09	54.70	53.05	53.05	54.32	56.61	55.35	53.45	52.42
24.0	57.61	56.25	53.38	51.45	51.70	53.54	56.01	54.52	52.14	50.76
27.0	57.12	55.52	51.94	49.68	50.30	52.61	55.30	53.61	50.71	48.82
30.0	56.51	54.72	50.37	47.77	48.80	51.60	54.47	52.58	49.22	46.82
33.0	55.81	53.79	48.69	45.69	47.22	50.45	53.53	51.40	47.64	44.72
36.0	55.01	52.77	46.98	43.48	45.54	49.17	52.49	50.13	45.95	42.41
39.0	54.13	51.66	45.24	41.20	43.76	47.85	51.44	48.74	44.17	39.99
42.0	53.12	50.46	43.46	38.74	41.87	46.59	50.52	47.38	42.29	37.53
45.0	52.04	49.17	41.64	36.15	39.91	45.33	49.57	46.12	40.30	34.98
48.0	50.93	47.82	39.73	33.58	37.86	44.07	48.52	44.83	38.24	32.21
51.0	49.88	46.35	37.74	30.85	35.74	42.72	47.42	43.45	36.10	29.56
54.0	48.74	44.95	35.72	28.04	33.58	41.33	46.22	42.03	33.91	26.65
57.0	47.55	43.56	33.63	25.30	31.47	39.88	44.98	40.53	31.75	23.87
60.0	46.30	42.11	31.53	22.43	29.43	38.43	43.73	38.99	29.66	20.95
63.0	45.05	40.61	29.41	19.52	27.38	36.98	42.48	37.55	27.58	18.08
66.0	43.73	39.13	27.28	16.68	25.33	35.55	41.18	36.07	25.51	15.23
69.0	42.43	37.63	25.30	13.79	23.31	34.14	39.90	34.59	23.46	12.34
72.0	41.12	36.17	23.33	10.93	21.37	32.71	38.59	33.18	21.46	9.593
75.0	39.76	34.76	21.43	8.201	19.56	31.38	37.28	31.78	19.60	6.958
78.0	38.40	33.33	19.65	5.673	17.90	30.02	35.93	30.38	17.91	4.520
81.0	37.00	31.94	18.08	3.482	16.44	28.68	34.56	29.02	16.39	2.493
84.0	35.56	30.56	16.68	1.704	15.11	27.33	33.14	27.67	15.03	0.8843
87.0	34.08	29.14	15.42	0.9634	13.92	25.92	31.63	26.20	13.82	0.5885
90.0	32.58	27.76	14.34	0.8703	12.84	24.60	30.14	24.84	12.70	0.5531
93.0	31.04	26.37	13.31	0.8493	11.94	23.34	28.70	23.52	11.78	0.5529
96.0	29.45	24.93	12.24	0.8646	11.22	22.11	27.28	22.26	11.01	0.5528
99.0	27.69	21.80	11.41	0.9150	10.58	19.13	25.38	19.41	10.32	0.6130
102.0	25.71	20.43	10.59	0.9363	9.307	18.53	24.06	18.78	9.345	0.7085
105.0	24.26	19.53	9.564	0.9576	7.953	17.83	22.83	17.88	7.951	0.7171
108.0	22.92	18.66	9.344	0.9788	7.725	17.05	21.60	17.08	7.794	0.7257
111.0	21.64	17.78	8.623	1.000	7.580	15.50	20.45	15.93	7.421	0.7343
114.0	20.45	16.97	8.660	1.015	7.253	14.67	18.56	15.24	7.040	0.7429
117.0	19.37	16.23	8.094	1.045	6.927	13.87	17.61	14.34	6.794	0.7538
120.0	18.36	15.54	6.680	1.061	6.896	13.28	16.78	13.59	6.709	0.7688
123.0	17.42	14.83	5.993	1.081	6.640	12.70	15.94	12.85	6.522	0.8040
126.0	16.54	14.09	5.485	1.101	6.193	12.07	15.06	12.07	6.026	0.8443
129.0	15.62	12.98	5.227	1.121	5.957	11.46	14.19	11.44	5.888	0.8594
132.0	14.60	11.29	5.067	1.146	5.735	10.77	13.34	10.80	5.604	0.8945
135.0	13.57	9.571	4.746	1.161	5.605	10.04	12.05	9.713	5.492	0.9247
138.0	12.54	8.359	4.464	1.186	5.263	9.451	11.22	9.099	5.276	0.9548
141.0	11.59	7.254	4.162	1.201	4.966	8.477	10.33	8.525	4.864	0.9950
144.0	10.68	6.532	3.861	1.216	4.705	8.009	9.552	7.997	4.678	1.015
147.0	9.828	5.994	3.719	1.262	4.574	7.296	8.535	7.435	4.528	1.075
150.0	9.084	5.456	3.614	1.313	4.338	6.798	7.576	6.531	4.446	1.141
153.0	8.426	4.934	3.868	1.315	4.027	6.210	6.921	6.223	4.105	1.161
156.0	7.543	4.391	3.950	1.317	3.715	5.688	6.863	5.721	3.763	1.176
159.0	6.917	3.899	3.950	1.319	3.369	5.105	6.208	5.238	3.255	1.201
162.0	6.225	3.366	3.845	1.322	2.957	4.662	5.475	4.876	2.929	1.246
165.0	5.451	3.076	3.750	1.324	2.585	4.080	4.836	4.048	2.617	1.251
168.0	2.851	3.257	3.529	1.326	2.273	3.410	2.788	3.554	2.371	1.261
171.0	2.604	3.291	3.358	1.328	1.881	2.737	2.446	3.062	2.003	1.269
174.0	2.453	3.090	2.988	1.330	1.383	2.194	1.999	2.374	1.392	1.274
177.0	2.228	2.253	1.889	1.332	1.367	1.347	1.662	1.491	1.362	1.282
180.0	1.432	1.412	1.362	1.332	1.347	1.347	1.437	1.412	1.362	1.317
G/C	300.0	330.0								
0.0	58.08	57.88								
3.0	58.07	57.98								
6.0	57.91	57.99								
9.0	57.53	57.82								
12.0	56.87	57.51								
15.0	56.01	57.03								
18.0	54.96	56.35								
21.0	53.71	55.56								
24.0	52.34	54.79								
27.0	50.79	54.11								
30.0	49.14	53.37								

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: LPC  
 Test Date: 2021-12-16

γ Range: 0 - 180DEG  
 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:

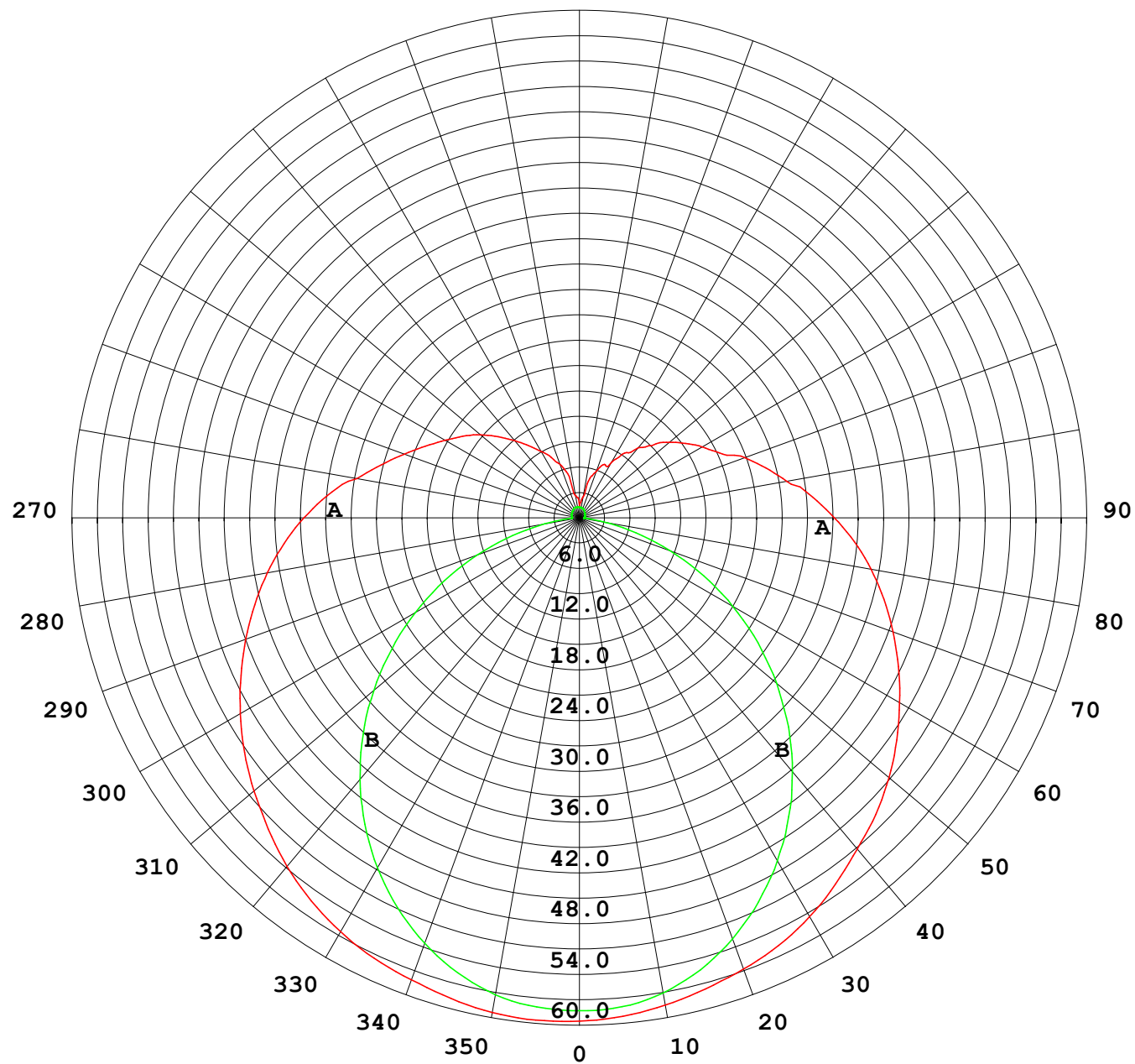
## Photometric Data Table [cd]

33.0	47.46	52.57
36.0	45.77	51.59
39.0	44.12	50.53
42.0	42.48	49.38
45.0	40.78	48.16
48.0	39.03	46.83
51.0	37.12	45.43
54.0	35.13	44.06
57.0	33.12	42.74
60.0	31.07	41.33
63.0	28.98	39.92
66.0	26.92	38.46
69.0	24.95	37.03
72.0	23.03	35.62
75.0	21.17	34.21
78.0	19.42	32.82
81.0	17.82	31.48
84.0	16.39	30.12
87.0	15.13	28.74
90.0	14.04	27.39
93.0	13.04	26.01
96.0	12.17	24.67
99.0	11.43	21.89
102.0	10.74	20.60
105.0	9.458	19.66
108.0	9.302	18.72
111.0	8.851	17.80
114.0	8.241	16.91
117.0	7.889	16.10
120.0	7.267	15.38
123.0	6.939	14.68
126.0	6.457	13.92
129.0	6.246	13.03
132.0	5.798	11.66
135.0	5.301	10.52
138.0	4.929	9.049
141.0	4.632	7.961
144.0	4.331	7.339
147.0	3.974	6.721
150.0	3.703	6.008
153.0	3.630	5.374
156.0	3.639	4.827
159.0	3.648	4.234
162.0	3.563	3.755
165.0	3.503	3.529
168.0	3.427	3.478
171.0	3.281	3.373
174.0	2.921	3.167
177.0	1.889	2.283
180.0	1.342	1.362

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LPC  
Test Date:2021-12-16

γ Range: 0 - 180DEG  
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:

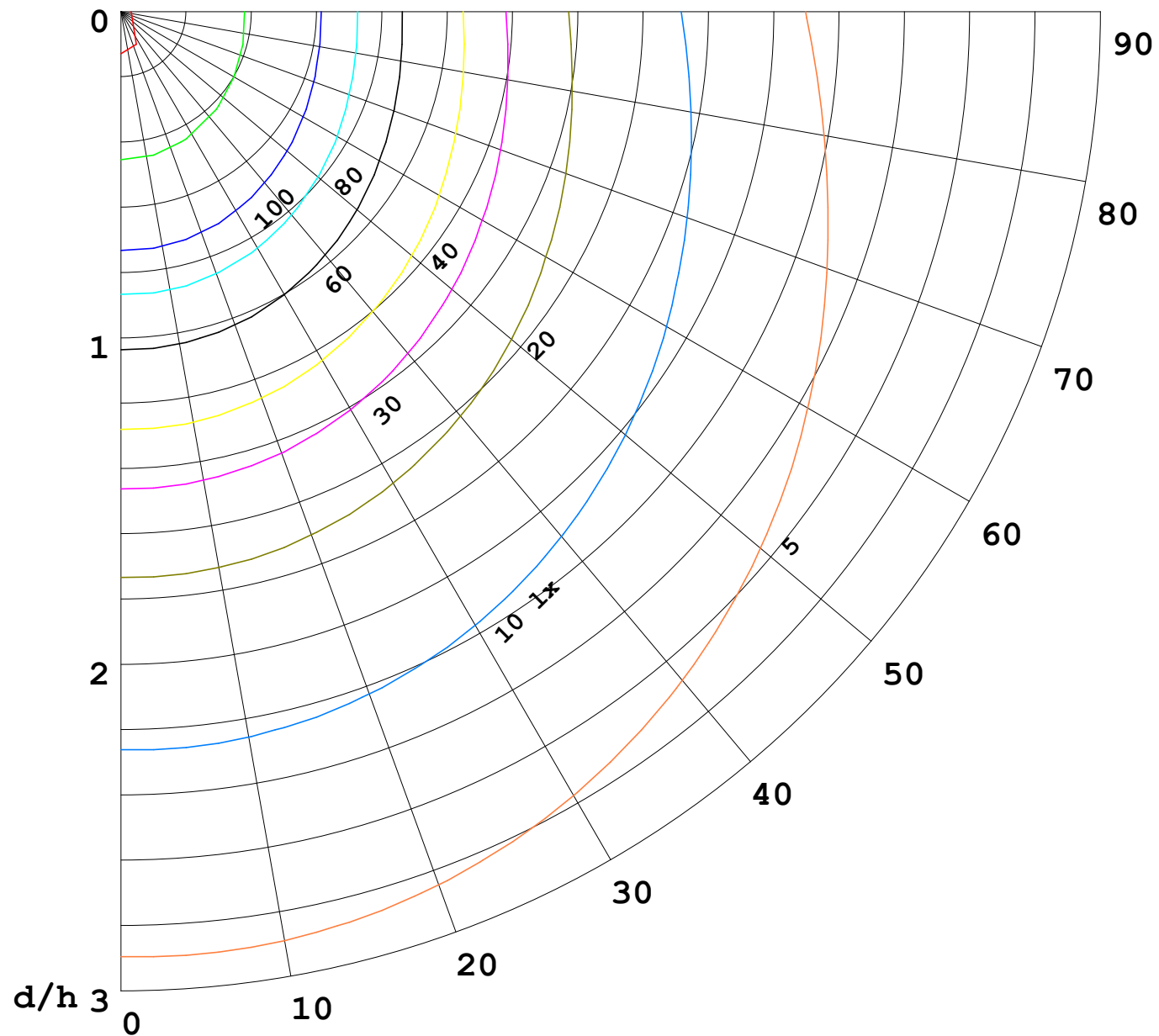
I (cd)





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

