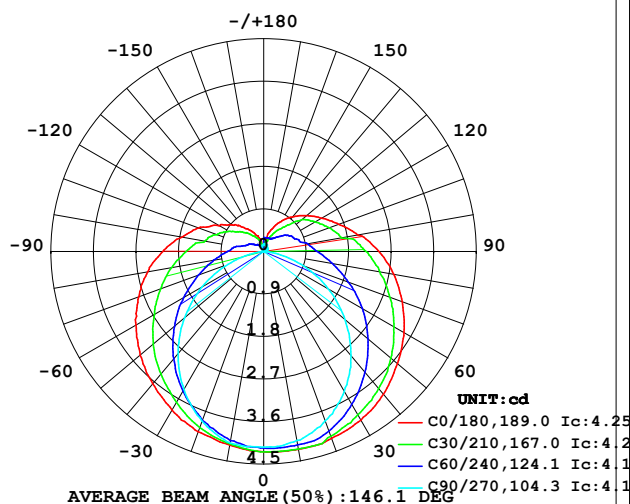


LUMINAIRE PHOTOMETRIC TEST REPORT

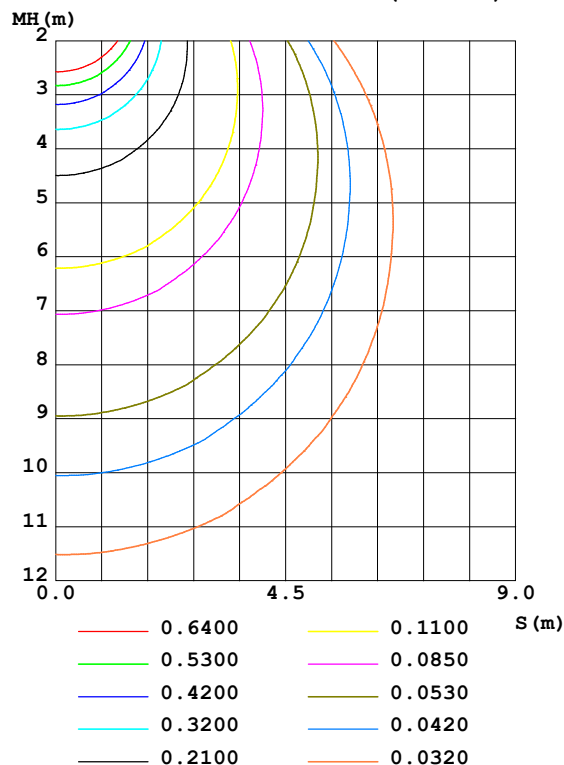
Test:U:24.00V I:0.3234A P:7.762W PF:1.000 Freq:50.00Hz Lamp Flux:20.8952x1 lm		
NAME: SF21-24V-5050-70-DMX4-RGBW(5000)-B	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 28mm*11.5mm	SERIAL No.:2021121708
MFR.: OLYMPIA	SUR.:1*0.016	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 2.69 lm/W
MODEL	5050	I _{max} (cd)	4.252	S/MH (C0/180)	1.37	
NOMINAL POWER (W)	4.25	LOR (%)	100.0	S/MH (C90/270)	1.22	
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	20.895	η UP, DN (C0-180)	11.4, 39.2	
NOMINAL FLUX (lm)	20.8952	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	10.8, 38.6	
LAMPS INSIDE	1	η up (%)	22.2	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	24	η down (%)	77.8	CIBSE SHR MAX	1.55	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



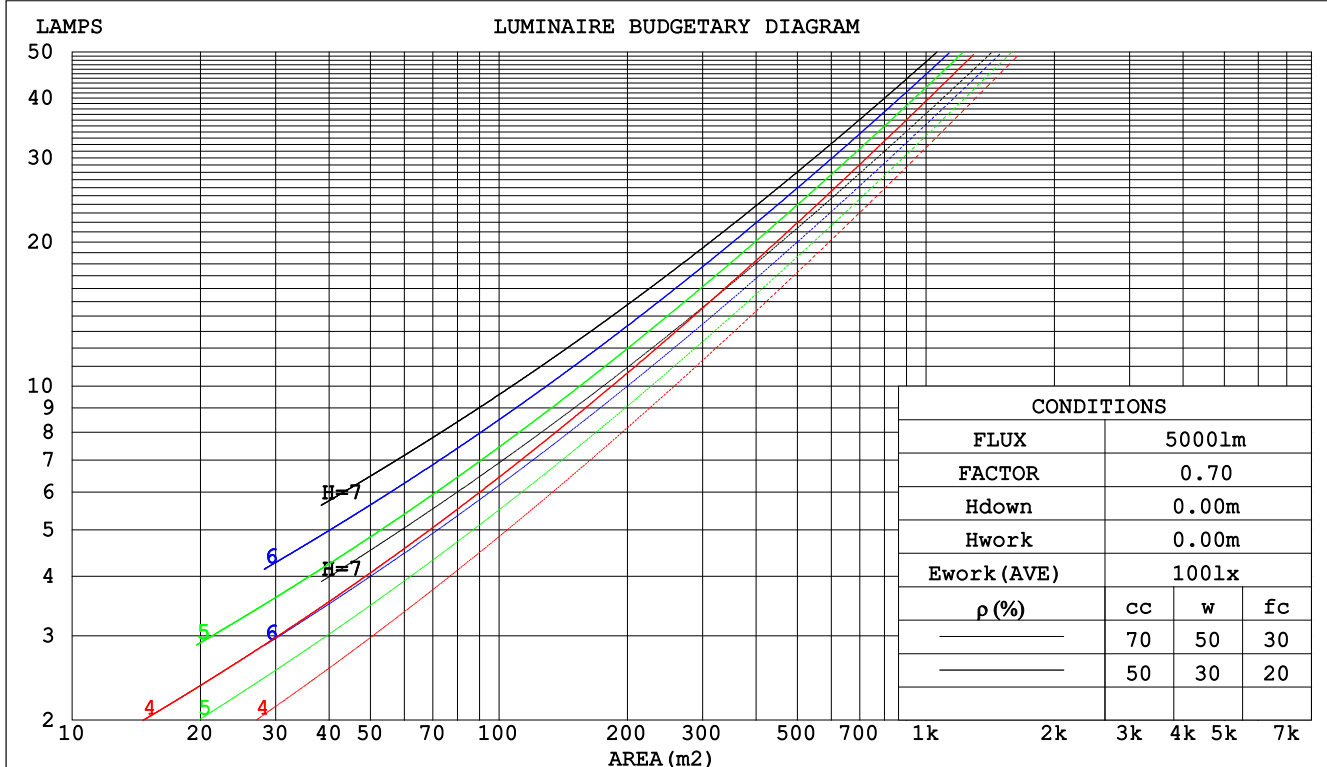
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LPC
Test Date: 2021-12-17

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.3234A P:7.762W PF:1.000 Freq:50.00Hz Lamp Flux:20.8952x1 lm		
NAME: SF21-24V-5050-70-DMX4-RGBW(5000)-B	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 28mm*11.5mm	SERIAL No.:2021121708
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	.94	.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	.44	.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	.42	.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	.24	.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	.33	.25	.20	.32	.25	.20	.30	.23	.18	.27	.21	.17	.25	.20	.16	.14



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LPC
 Test Date:2021-12-17

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:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.3234A P:7.762W PF:1.000 Freq:50.00Hz Lamp Flux:20.8952x1 lm		
NAME: SF21-24V-5050-70-DMX4-RGBW(5000) -B	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 28mm*11.5mm	SERIAL No.:2021121708
MFR.: OLYMPIA	SUR.:1*0.016	Shielding Angle:

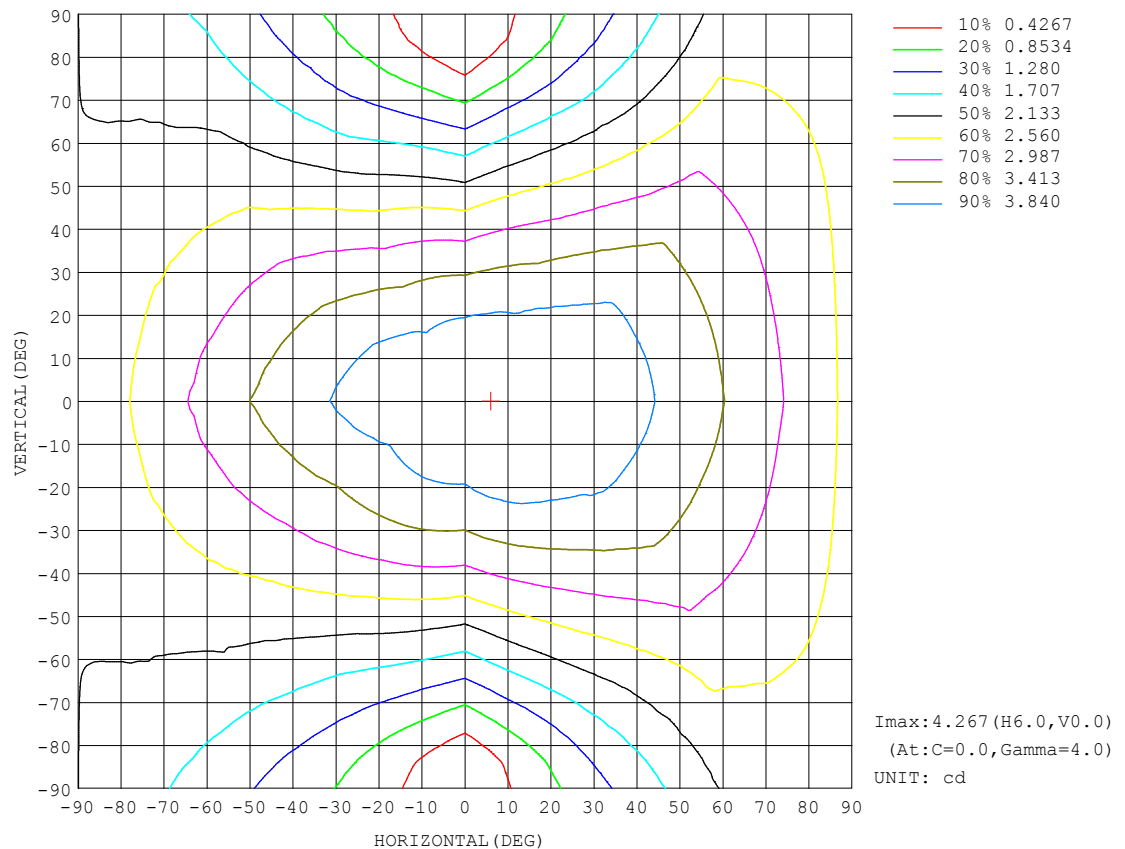
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	46	34	27	45	33	26	43	32	26	19
0.80	55	42	34	54	41	34	51	40	33	25
1.00	63	50	41	61	49	41	57	49	39	30
1.25	70	57	48	67	56	47	63	53	46	35
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	76	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:2021-12-17

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:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.3234A P:7.762W PF:1.000 Freq:50.00Hz Lamp Flux:20.8952x1 lm		
NAME: SF21-24V-5050-70-DMX4-RGBW(5000)-B	TYPE:硅胶	WEIGHT:
SPEC.:	DIM.: 28mm*11.5mm	SERIAL No.:2021121708
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:2021-12-17

```

Range: 0 - 180DEG
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:0.3234A P:7.762W PF:1.000 Freq:50.00Hz Lamp Flux:20.8952x1 lm		
NAME: SF21-24V-5050-70-DMX4-RGBW(5000)-B	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 28mm*11.5mm	SERIAL No.:2021121708
MFR.: OLYMPIA	SUR.:1*0.016	Shielding Angle:

Table--1

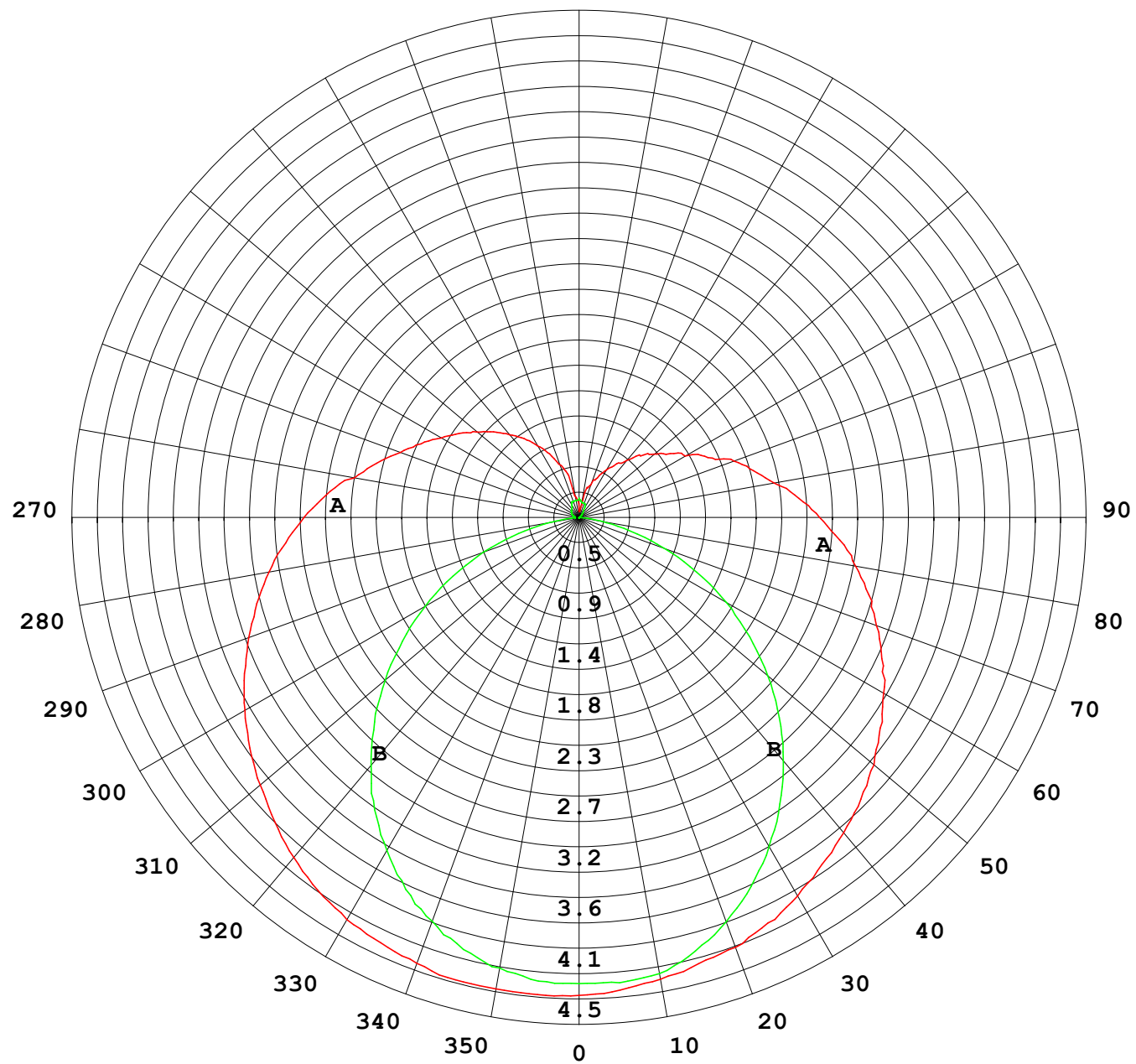
UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4.24	4.24	4.16	4.14	4.15	4.14	4.24	4.24	4.16	4.14	4.15	4.14						
5	4.25	4.24	4.17	4.13	4.15	4.09	4.21	4.20	4.14	4.15	4.15	4.17						
10	4.25	4.24	4.16	4.06	4.08	4.03	4.16	4.14	4.07	4.11	4.14	4.21						
15	4.25	4.25	4.15	3.97	3.98	3.96	4.10	4.06	3.93	3.99	4.06	4.22						
20	4.21	4.16	4.04	3.81	3.84	3.84	4.06	3.97	3.80	3.82	3.93	4.18						
25	4.17	4.08	3.91	3.64	3.68	3.72	3.97	3.84	3.61	3.61	3.79	4.13						
30	4.12	3.99	3.73	3.41	3.49	3.57	3.88	3.69	3.41	3.37	3.62	4.04						
35	4.04	3.89	3.54	3.17	3.28	3.42	3.76	3.54	3.20	3.11	3.45	3.95						
40	3.94	3.78	3.33	2.87	3.04	3.27	3.65	3.38	2.96	2.82	3.26	3.84						
45	3.82	3.67	3.11	2.57	2.79	3.10	3.54	3.23	2.71	2.51	3.05	3.73						
50	3.69	3.51	2.88	2.25	2.54	2.92	3.42	3.05	2.46	2.19	2.83	3.60						
55	3.57	3.36	2.65	1.91	2.29	2.74	3.26	2.87	2.22	1.85	2.60	3.45						
60	3.42	3.19	2.41	1.58	2.03	2.56	3.12	2.67	1.96	1.51	2.36	3.28						
65	3.28	3.02	2.16	1.24	1.77	2.38	2.96	2.50	1.70	1.15	2.12	3.14						
70	3.12	2.84	1.91	0.90	1.54	2.22	2.81	2.32	1.47	0.80	1.87	2.98						
75	2.96	2.67	1.68	0.56	1.34	2.04	2.66	2.15	1.25	0.47	1.63	2.80						
80	2.79	2.50	1.47	0.27	1.14	1.86	2.49	1.98	1.08	0.19	1.43	2.64						
85	2.61	2.33	1.29	0.06	0.98	1.69	2.32	1.80	0.91	0.01	1.24	2.48						
90	2.44	2.17	1.14	0.04	0.84	1.53	2.14	1.64	0.77	0.00	1.10	2.32						
95	2.26	2.00	1.03	0.04	0.74	1.41	1.96	1.50	0.68	0.00	0.99	2.17						
100	2.03	1.67	0.95	0.04	0.67	1.18	1.76	1.27	0.60	0.00	0.91	1.84						
105	1.86	1.58	0.80	0.05	0.50	1.10	1.60	1.19	0.47	0.00	0.79	1.74						
110	1.69	1.48	0.75	0.07	0.47	0.95	1.46	1.05	0.39	0.00	0.69	1.61						
115	1.55	1.36	0.70	0.07	0.42	0.85	1.26	0.96	0.36	0.00	0.66	1.50						
120	1.41	1.25	0.67	0.08	0.39	0.76	1.09	0.85	0.31	0.00	0.60	1.37						
125	1.30	1.16	0.60	0.09	0.35	0.69	0.99	0.73	0.27	0.00	0.53	1.23						
130	1.18	1.04	0.52	0.09	0.32	0.61	0.87	0.65	0.23	0.03	0.51	1.15						
135	1.08	0.84	0.45	0.10	0.28	0.53	0.77	0.57	0.21	0.04	0.45	0.97						
140	0.96	0.68	0.39	0.10	0.24	0.45	0.66	0.50	0.19	0.06	0.37	0.79						
145	0.85	0.58	0.34	0.11	0.22	0.37	0.58	0.41	0.15	0.07	0.34	0.64						
150	0.73	0.46	0.32	0.13	0.16	0.29	0.49	0.36	0.12	0.11	0.32	0.56						
155	0.62	0.35	0.31	0.16	0.12	0.23	0.39	0.30	0.06	0.13	0.32	0.45						
160	0.50	0.27	0.30	0.15	0.09	0.15	0.31	0.25	0.06	0.13	0.32	0.37						
165	0.40	0.23	0.30	0.15	0.07	0.08	0.28	0.16	0.06	0.14	0.31	0.31						
170	0.19	0.22	0.30	0.15	0.06	0.05	0.09	0.08	0.06	0.14	0.31	0.30						
175	0.16	0.20	0.30	0.16	0.05	0.06	0.06	0.06	0.06	0.15	0.30	0.29						
180	0.06	0.06	0.16	0.16	0.14	0.15	0.06	0.06	0.11	0.18	0.18	0.16						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LPC
Test Date:2021-12-17

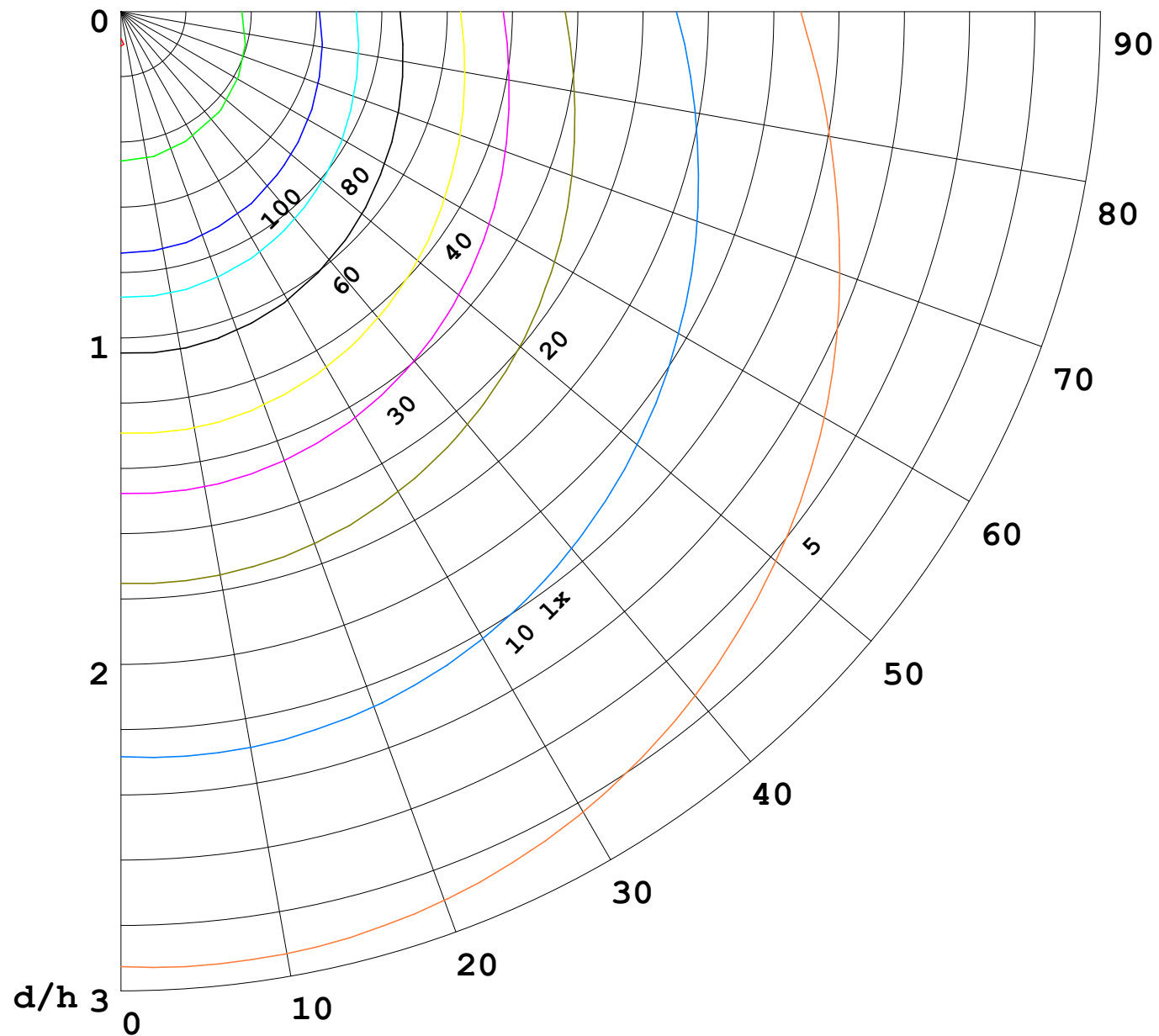
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

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

