

WEC AND CCEC

Test:U:24.00V I:0.1901A P:4.562W PF:1.000 Lamp Flux:43.8653x1 lm								
NAME: SF15-24V-5050-56-SPI4-RGBW- (5000K) -R				TYPE:PVC			WEIGHT:	
DIM.: 21mm*11.5mm				SPEC.:			SERIAL No.:20220512	
MFR.: OLYMPIA				SUR.:1*0.0165			PROTECTION 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	.310	.176	.056	.302	.172	.055	.287	.165	.053	.274	.158	.051	.261	.151	.049	
2.0	.291	.160	.049	.284	.156	.048	.271	.151	.047	.259	.145	.045	.247	.140	.044	
3.0	.269	.143	.043	.263	.141	.042	.251	.136	.041	.240	.132	.040	.230	.127	.039	
4.0	.248	.129	.038	.243	.127	.038	.232	.123	.037	.222	.119	.036	.213	.116	.035	
5.0	.229	.117	.034	.224	.115	.034	.215	.112	.033	.206	.109	.032	.198	.106	.032	
6.0	.213	.107	.031	.208	.105	.030	.200	.102	.030	.192	.100	.029	.185	.097	.029	
7.0	.198	.098	.028	.194	.097	.028	.186	.094	.027	.179	.092	.027	.173	.090	.026	
8.0	.185	.090	.025	.181	.089	.025	.174	.087	.025	.168	.085	.025	.162	.083	.024	
9.0	.173	.084	.023	.170	.083	.023	.164	.081	.023	.158	.079	.023	.153	.078	.022	
10.0	.163	.078	.022	.160	.077	.022	.154	.076	.021	.149	.074	.021	.144	.073	.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	.212	.212	.212	.181	.181	.181	.124	.124	.124	.071	.071	.071	.023	.023	.023	
1.0	.202	.178	.156	.173	.153	.134	.118	.105	.093	.068	.061	.054	.022	.020	.017	
2.0	.194	.154	.120	.166	.132	.104	.114	.092	.072	.066	.053	.042	.021	.017	.014	
3.0	.186	.136	.096	.160	.117	.084	.110	.082	.059	.063	.048	.035	.020	.015	.011	
4.0	.179	.123	.080	.153	.106	.070	.105	.074	.049	.061	.043	.029	.020	.014	.010	
5.0	.171	.113	.069	.147	.097	.060	.101	.068	.043	.059	.040	.025	.019	.013	.008	
6.0	.164	.104	.061	.141	.090	.053	.097	.063	.038	.056	.037	.022	.018	.012	.007	
7.0	.157	.097	.056	.135	.084	.048	.093	.059	.034	.054	.035	.020	.018	.011	.007	
8.0	.151	.092	.051	.130	.080	.045	.090	.056	.032	.052	.033	.019	.017	.011	.006	
9.0	.145	.087	.048	.125	.075	.041	.086	.053	.029	.050	.031	.018	.016	.010	.006	
10.0	.139	.082	.045	.120	.072	.039	.083	.050	.028	.049	.030	.017	.016	.010	.005	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HXJ
Test Date:2022-05-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

Uncorrected UGR Table

Test:U:24.00V I:0.1901A P:4.562W PF:1.000 Lamp Flux:43.8653x1 lm											
NAME: SF15-24V-5050-56-SPI4-RGBW- (5000K) -R						TYPE:PVC		WEIGHT:			
DIM.: 21mm*11.5mm						SPEC.:		SERIAL No.:20220512			
MFR.: OLYMPIA						SUR.:1*0.0165		PROTECTION 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		11.8	13.3	12.1	13.6	13.8	12.1	13.6	12.4	13.9	14.1
	3H	13.3	14.7	13.6	14.9	15.2	13.7	15.1	14.0	15.4	15.7
	4H	13.8	15.1	14.2	15.4	15.8	14.3	15.6	14.7	15.9	16.3
	6H	14.2	15.4	14.6	15.8	16.1	14.8	16.0	15.2	16.3	16.7
	8H	14.3	15.5	14.7	15.9	16.2	14.9	16.1	15.3	16.5	16.8
	12H	14.4	15.5	14.8	15.9	16.3	15.0	16.2	15.4	16.5	16.9
4H	2H	12.5	13.8	12.8	14.1	14.4	12.7	14.0	13.1	14.3	14.6
	3H	14.1	15.2	14.5	15.6	15.9	14.4	15.6	14.8	15.9	16.3
	4H	14.8	15.8	15.2	16.2	16.6	15.2	16.2	15.6	16.6	17.0
	6H	15.3	16.2	15.7	16.6	17.0	15.8	16.7	16.2	17.1	17.5
	8H	15.4	16.3	15.9	16.7	17.2	16.0	16.8	16.4	17.3	17.7
	12H	15.5	16.3	16.0	16.8	17.2	16.1	16.9	16.6	17.3	17.8
8H	4H	15.0	15.9	15.5	16.3	16.8	15.4	16.3	15.9	16.7	17.2
	6H	15.7	16.4	16.2	16.8	17.3	16.2	16.9	16.6	17.3	17.8
	8H	15.9	16.5	16.4	17.0	17.5	16.4	17.1	16.9	17.5	18.1
	12H	16.1	16.6	16.6	17.1	17.7	16.7	17.2	17.2	17.7	18.2
12H	4H	15.1	15.8	15.5	16.3	16.7	15.4	16.2	15.9	16.7	17.1
	6H	15.7	16.4	16.2	16.8	17.4	16.2	16.8	16.7	17.3	17.8
	8H	16.0	16.6	16.5	17.1	17.6	16.5	17.1	17.0	17.6	18.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117 Corrected 43.87 lm Total Lamp Luminous Flux. (8log(F/F0) = -10.9)

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γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.1901A P:4.562W PF:1.000 Lamp Flux:43.8653x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW- (5000K) -R	TYPE:PVC	WEIGHT:
DIM.: 21mm*11.5mm	SPEC.:	SERIAL No.:20220512
MFR.: OLYMPIA	SUR.:1*0.0165	PROTECTION ANGLE:

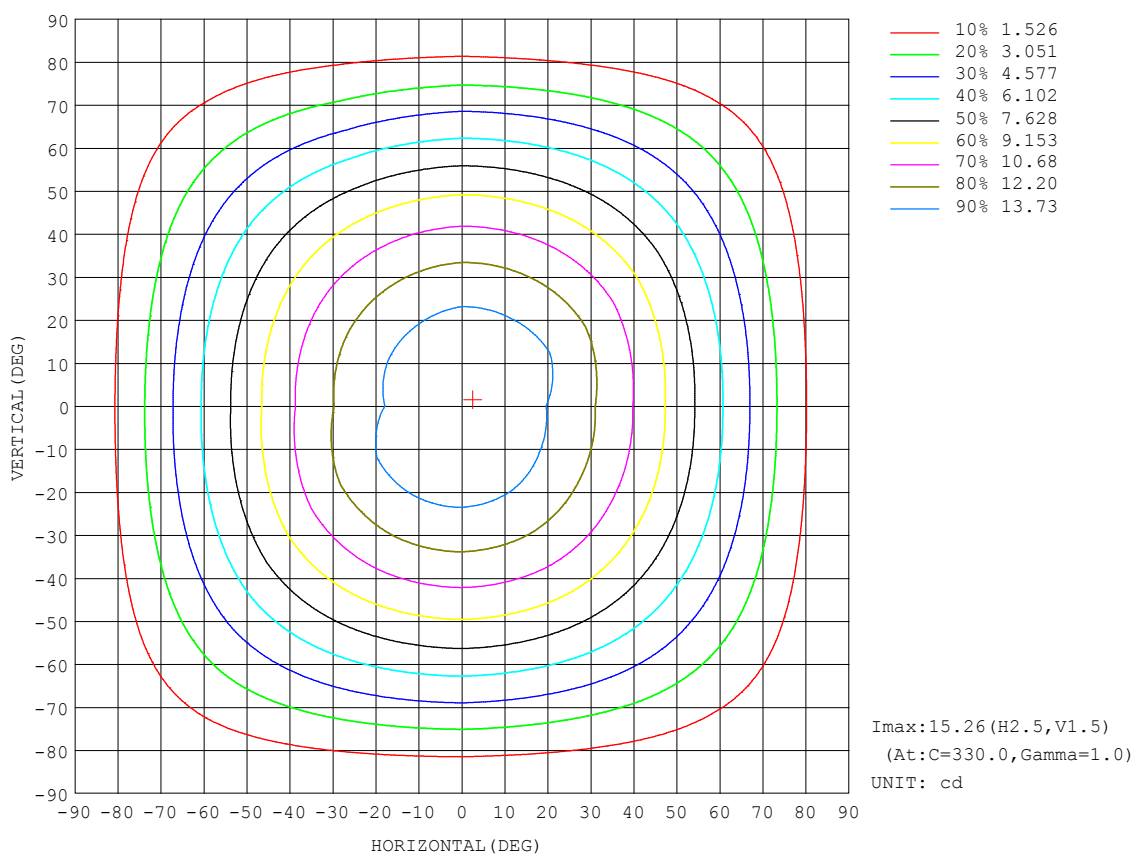
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	72	64	81	71	64	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	79	92	84	78	88	81	76	68
2.50	98	90	84	96	88	83	91	85	81	72
3.00	101	94	89	99	93	87	94	89	85	76
4.00	105	100	95	103	98	93	98	94	90	80
5.00	108	103	99	105	101	97	100	97	93	83
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

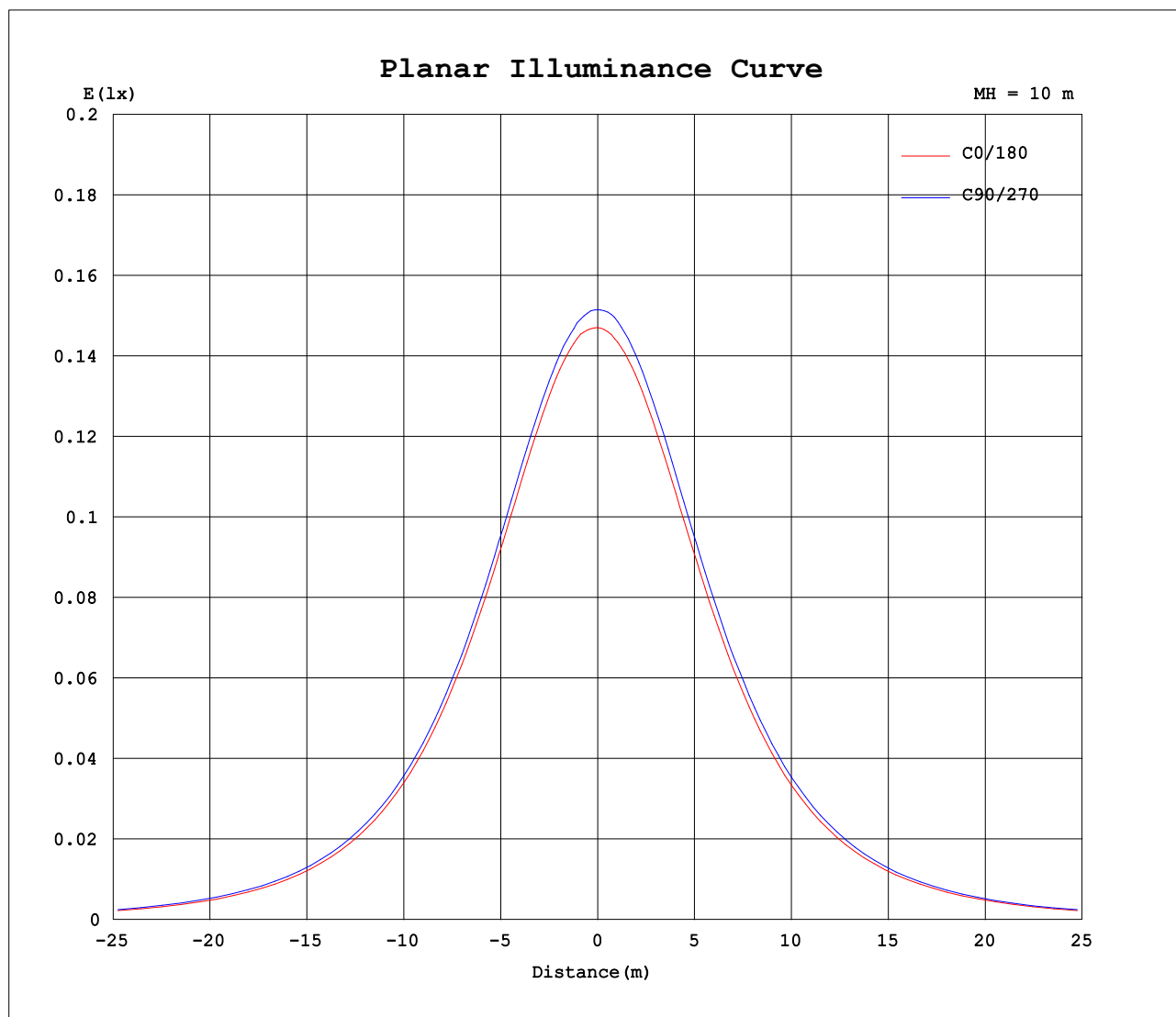
Test:U:24.00V I:0.1901A P:4.562W PF:1.000 Lamp Flux:43.8653x1 lm		
NAME: SF15-24V-5050-56-SPI4-RGBW- (5000K) -R	TYPE:PVC	WEIGHT:
DIM.: 21mm*11.5mm	SPEC.:	SERIAL No.:20220512
MFR.: OLYMPIA	SUR.:1*0.0165	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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Test Date:2022-05-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

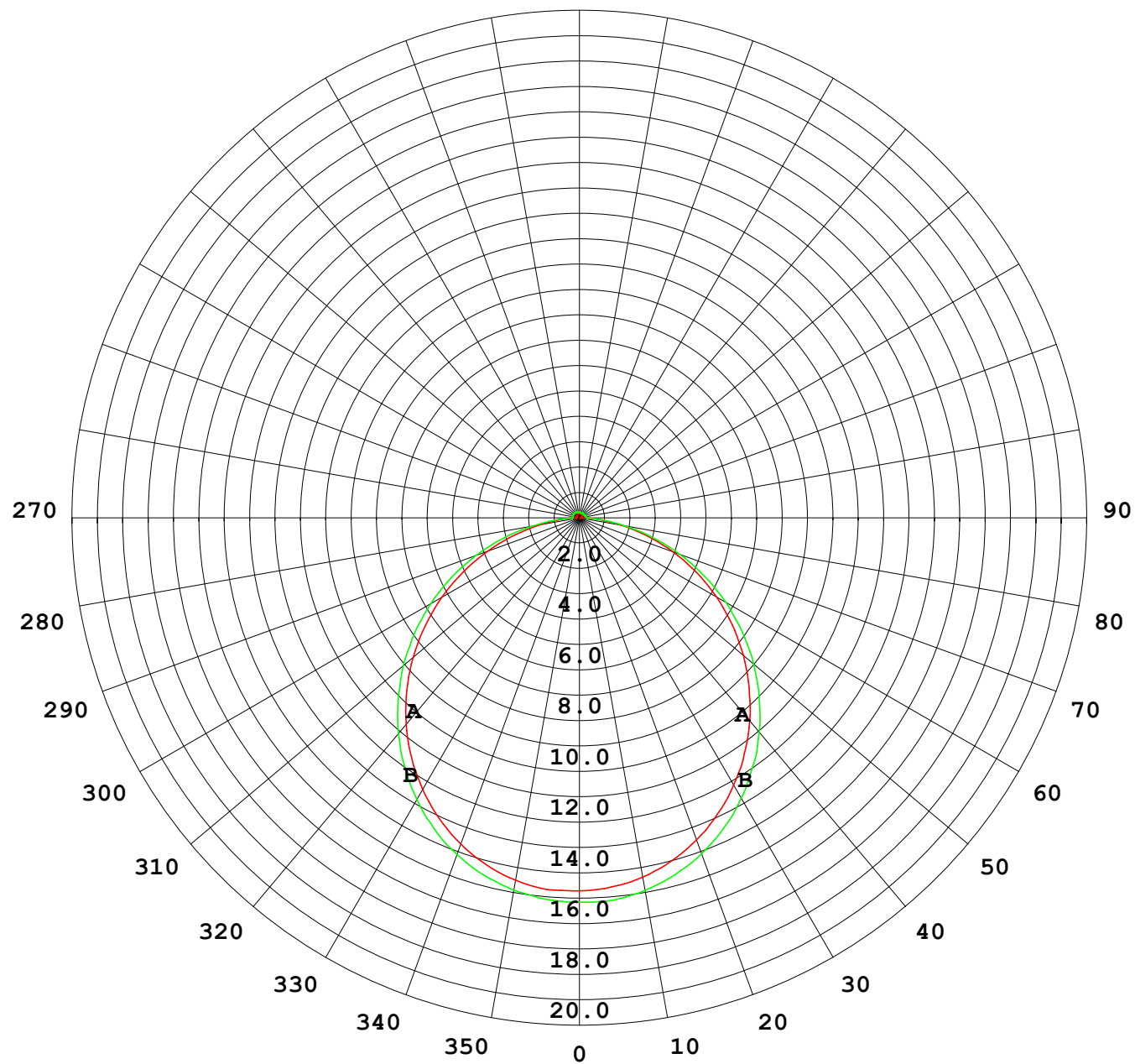
Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: HXJ
Test Date: 2022-05-12

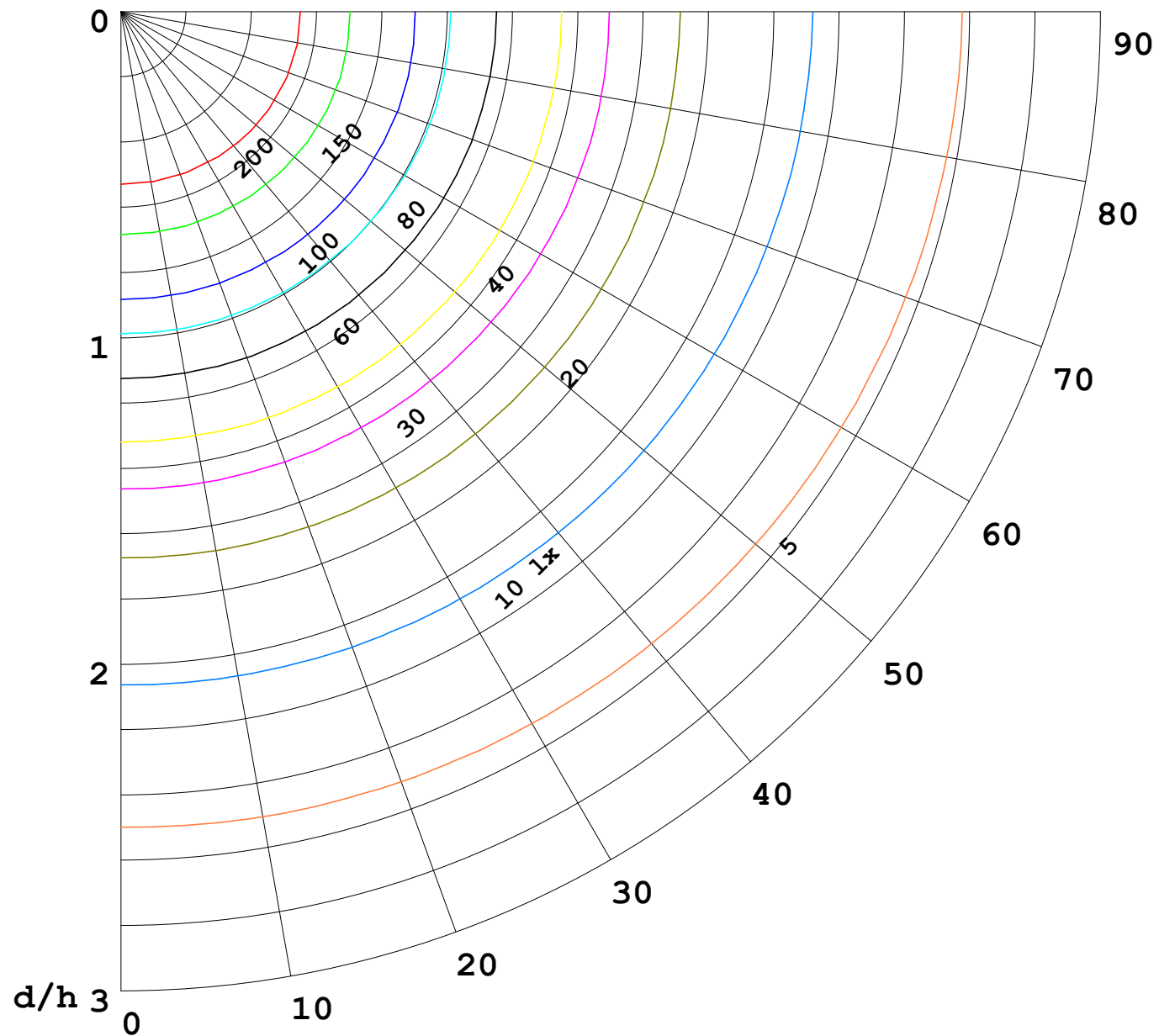
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 9.200m [K=1.0000]
Remarks:

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

