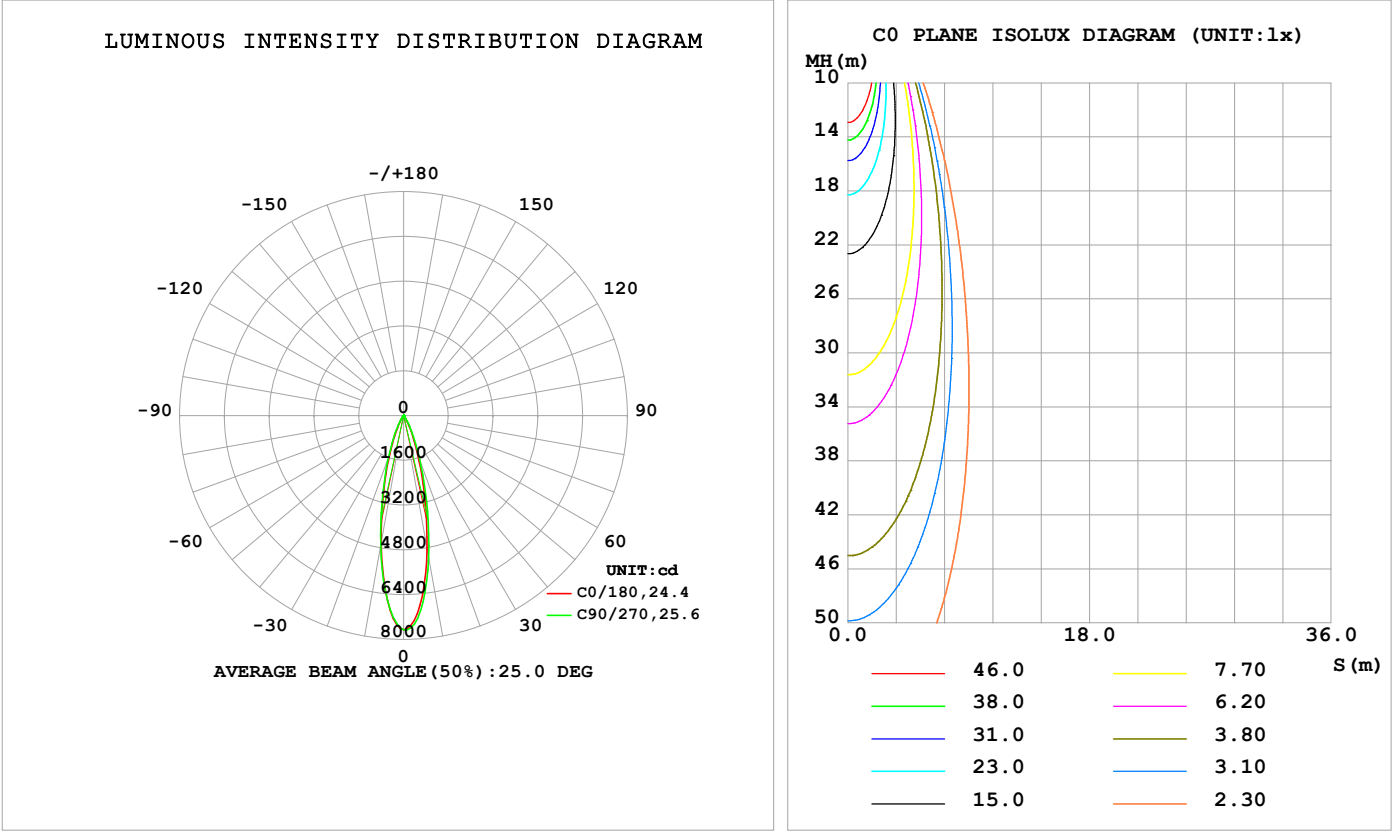


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:1.493A P:35.83W PF:1.000 Freq:0Hz Lamp Flux:1924.39x1 lm		
NAME: AW01-24V-3535-18-4000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 53.71 lm/W
MODEL		I <sub>max</sub> (cd)	7675	S/MH (C0/180)		0.41
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.41
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1924.4	η UP,DN (C0-180)		0.0,51.1
NOMINAL FLUX (lm)	1924.39	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,48.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.00
TEST VOLTAGE (V)		η down (%)	100.0	CIBSE SHR MAX		1.00



C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 22.5DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Temperature:25.3℃	Humidity:65.0%
Operators:Cloud	Test Distance:6.360m [K=1.0000]
Test Date:2024-11-08	Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	4847	5194	5161	4748	4632	4530	4734	5024	0- 10	583.4	583.4	30.3,30.3
20	1495	1716	1714	1535	1463	1442	1584	1714	10- 20	813.3	1397	72.6,72.6
30	306.0	378.0	388.7	341.2	304.7	334.7	374.5	386.2	20- 30	370.2	1767	91.8,91.8
40	52.42	72.76	79.32	67.12	56.17	65.28	77.75	73.03	30- 40	105.4	1872	97.3,97.3
50	11.73	15.05	16.37	12.84	10.90	11.46	15.28	14.01	40- 50	24.67	1897	98.6,98.6
60	7.129	8.095	7.783	7.774	6.670	7.267	7.276	7.631	50- 60	8.299	1905	99,99
70	6.664	6.777	6.601	6.800	5.880	6.099	6.241	6.231	60- 70	6.785	1912	99.4,99.4
80	6.050	5.916	5.794	6.022	5.340	5.468	5.651	5.551	70- 80	6.417	1918	99.7,99.7
90	5.152	5.097	5.084	5.166	5.005	5.117	5.287	5.178	80- 90	5.890	1924	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1889 lm

%lum = 98.2%

%lamp = 98.2%

Conical surface Flux(130deg): 1908.7 lm

%lum = 99.2%

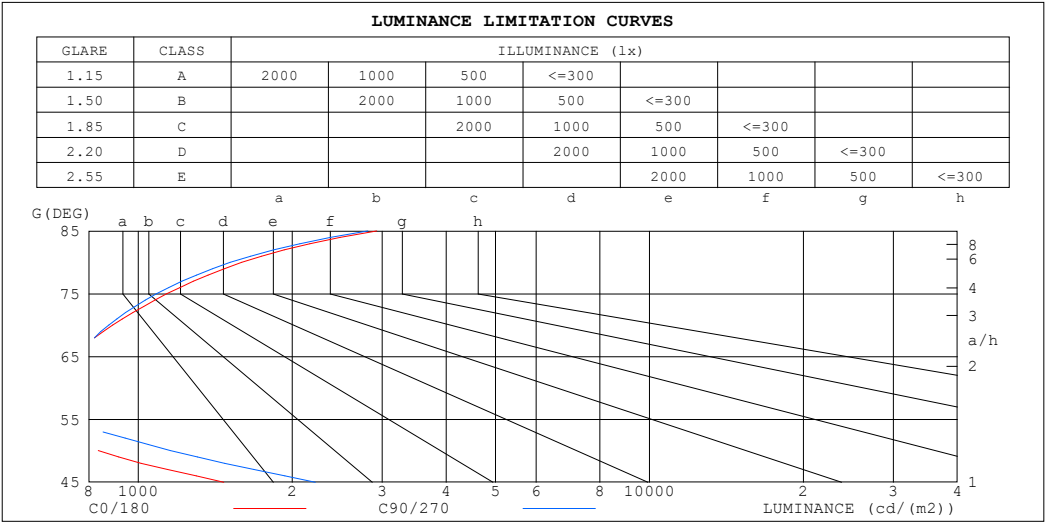
%lamp = 99.2%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:Cloud  
 Test Date:2024-11-08

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity:65.0%  
 Test Distance:6.360m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:1.493A P:35.83W PF:1.000 Freq:0Hz Lamp Flux:1924.39x1 lm		
NAME: AW01-24V-3535-18-4000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



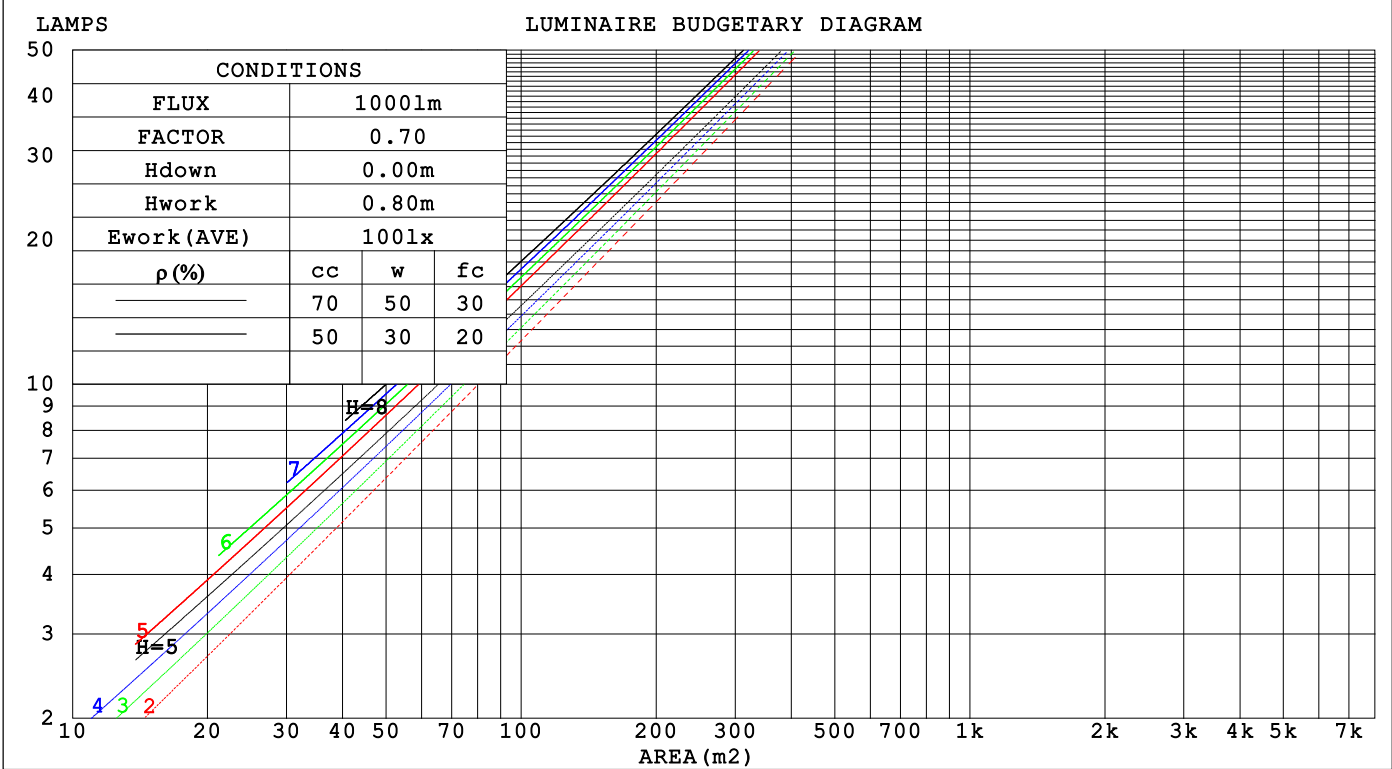
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2927	2811
80	1594	1513
75	1137	1086
70	891	875
65	737	758
60	652	706
55	648	753
50	835	1155
45	1469	2219

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 22.5DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Temperature:25.3℃	Humidity:65.0%
Operators:Cloud	Test Distance:6.360m [K=1.0000]
Test Date:2024-11-08	Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:1.493A P:35.83W PF:1.000 Freq:0Hz																	
Lamp Flux:1924.39x1 lm																	
NAME: AW01-24V-3535-18-4000-80-30-B-1000									TYPE:						WEIGHT:		
SPEC.:									DIM.: Length=1m						SERIAL No.:		
MFR.:									SUR.:						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	1.02	1.02	1.02	1.00
1.0	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.07	1.03	1.01	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.02	.98	.95	1.00	.97	.94	.98	.95	.92	.95	.93	.91	.93	.91	.90	.88
4.0	.97	.93	.90	.96	.92	.89	.94	.91	.88	.92	.89	.87	.90	.88	.86	.85
5.0	.93	.89	.85	.92	.88	.85	.91	.87	.84	.89	.86	.84	.88	.85	.83	.82
6.0	.90	.85	.82	.89	.85	.82	.88	.84	.81	.86	.83	.81	.85	.82	.80	.79
7.0	.86	.82	.79	.86	.81	.78	.85	.81	.78	.84	.80	.78	.83	.80	.77	.76
8.0	.83	.79	.76	.83	.79	.76	.82	.78	.75	.81	.78	.75	.80	.77	.75	.74
9.0	.81	.76	.73	.80	.76	.73	.79	.76	.73	.79	.75	.73	.78	.75	.72	.71
10.0	.78	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.70	.76	.73	.70	.69



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:Cloud

Test Date:2024-11-08

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488

Humidity:65.0%

Test Distance:6.360m [K=1.0000]

Remarks:

## WEC AND CCEC

Test:U:24.00V I:1.493A P:35.83W PF:1.000 Freq:0Hz Lamp Flux:1924.39x1 lm		
NAME: AW01-24V-3535-18-4000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	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	.149	.085	.027	.142	.081	.026	.130	.074	.024	.118	.068	.022	.108	.062	.020															
2.0	.137	.075	.023	.132	.073	.022	.122	.068	.021	.112	.063	.020	.103	.058	.018															
3.0	.128	.068	.020	.123	.066	.020	.115	.062	.019	.107	.058	.018	.099	.055	.017															
4.0	.120	.062	.018	.116	.061	.018	.109	.058	.017	.102	.055	.017	.096	.052	.016															
5.0	.113	.058	.017	.110	.056	.016	.103	.054	.016	.098	.051	.015	.092	.049	.015															
6.0	.107	.054	.015	.104	.053	.015	.099	.051	.015	.094	.049	.014	.089	.047	.014															
7.0	.102	.050	.014	.099	.049	.014	.094	.048	.014	.090	.046	.013	.086	.045	.013															
8.0	.097	.047	.013	.095	.047	.013	.091	.045	.013	.087	.044	.013	.083	.043	.012															
9.0	.093	.045	.013	.091	.044	.012	.087	.043	.012	.084	.042	.012	.080	.041	.012															
10.0	.089	.043	.012	.087	.042	.012	.084	.041	.012	.081	.040	.011	.078	.039	.011															

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.169	.158	.147	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.117	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.094	.118	.098	.082	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.125	.098	.078	.107	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.115	.086	.065	.099	.074	.056	.068	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.106	.076	.054	.091	.066	.047	.063	.046	.034	.037	.027	.020	.012	.009	.007	
7.0	.099	.068	.046	.085	.059	.040	.059	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.092	.061	.040	.079	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.087	.056	.035	.075	.048	.030	.052	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.082	.051	.031	.071	.044	.027	.049	.031	.019	.029	.018	.011	.009	.006	.004	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Cloud  
Test Date:2024-11-08

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity:65.0%  
Test Distance:6.360m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:1.493A P:35.83W PF:1.000 Freq:0Hz Lamp Flux:1924.39x1 lm											
NAME: AW01-24V-3535-18-4000-80-30-B-1000					TYPE:			WEIGHT:			
SPEC.:					DIM.: Length=1m			SERIAL No.:			
MFR.:					SUR.:			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		4.0	4.7	4.2	4.9	5.0	5.2	5.9	5.4	6.1	6.2
3H		4.3	5.0	4.6	5.2	5.4	5.4	6.1	5.6	6.2	6.4
4H		4.7	5.3	5.0	5.6	5.8	5.6	6.3	5.9	6.5	6.7
6H		5.3	5.9	5.6	6.2	6.4	6.0	6.6	6.3	6.9	7.1
8H		5.8	6.3	6.1	6.6	6.8	6.4	6.9	6.7	7.2	7.4
12H		6.4	6.9	6.7	7.2	7.4	6.8	7.4	7.1	7.6	7.9
4H 2H		4.0	4.6	4.2	4.8	5.0	5.1	5.7	5.4	5.9	6.2
3H		4.5	5.0	4.8	5.3	5.6	5.4	6.0	5.7	6.2	6.5
4H		5.1	5.6	5.4	5.9	6.2	5.8	6.3	6.2	6.6	6.9
6H		6.0	6.4	6.4	6.8	7.1	6.5	7.0	6.9	7.3	7.6
8H		6.6	7.0	7.0	7.4	7.7	7.0	7.4	7.4	7.8	8.1
12H		7.4	7.8	7.8	8.2	8.6	7.7	8.1	8.1	8.4	8.8
8H 4H		5.3	5.7	5.7	6.1	6.4	6.0	6.4	6.4	6.8	7.1
6H		6.5	6.9	6.9	7.3	7.7	6.9	7.3	7.3	7.7	8.1
8H		7.3	7.7	7.8	8.1	8.5	7.6	7.9	8.1	8.3	8.8
12H		8.4	8.7	8.9	9.1	9.6	8.5	8.8	9.0	9.2	9.7
12H 4H		5.4	5.8	5.8	6.1	6.5	6.0	6.4	6.4	6.8	7.2
6H		6.7	7.0	7.1	7.4	7.8	7.1	7.4	7.5	7.8	8.2
8H		7.6	7.9	8.1	8.3	8.8	7.9	8.1	8.3	8.6	9.0
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.7 / - 0.7					+ 1.4 / - 1.1				
1.5H		+ 1.6 / - 0.7					+ 2.9 / - 1.0				
2.0H		+ 0.3 / - 0.2					+ 0.9 / - 0.3				

CIE Pub.117, 1924 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 2.3$ )  
Area: 0.022 m<sup>2</sup>

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Cloud  
Test Date:2024-11-08

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity:65.0%  
Test Distance:6.360m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:24.00V I:1.493A P:35.83W PF:1.000 Freq:0Hz Lamp Flux:1924.39x1 lm		
NAME: AW01-24V-3535-18-4000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

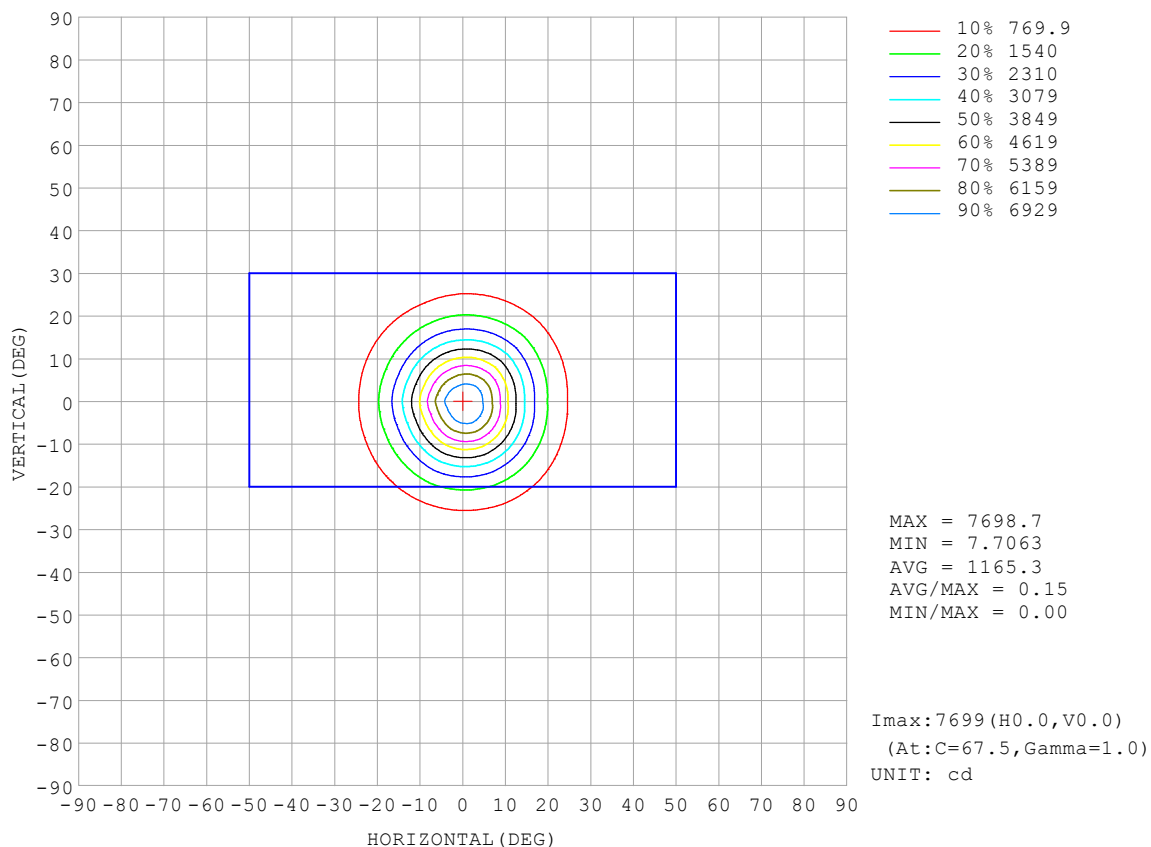
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	81	89	84	80	89	84	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	92	100	95	92	98	95	91	88
1.25	104	100	96	103	99	96	102	98	95	91
1.50	107	103	99	106	102	99	104	100	98	94
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	104	109	106	103	106	104	102	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	109	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3 °C  
 Operators: Cloud  
 Test Date: 2024-11-08

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
 Humidity: 65.0%  
 Test Distance: 6.360m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:24.00V I:1.493A P:35.83W PF:1.000 Freq:0Hz Lamp Flux:1924.39x1 lm		
NAME: AW01-24V-3535-18-4000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



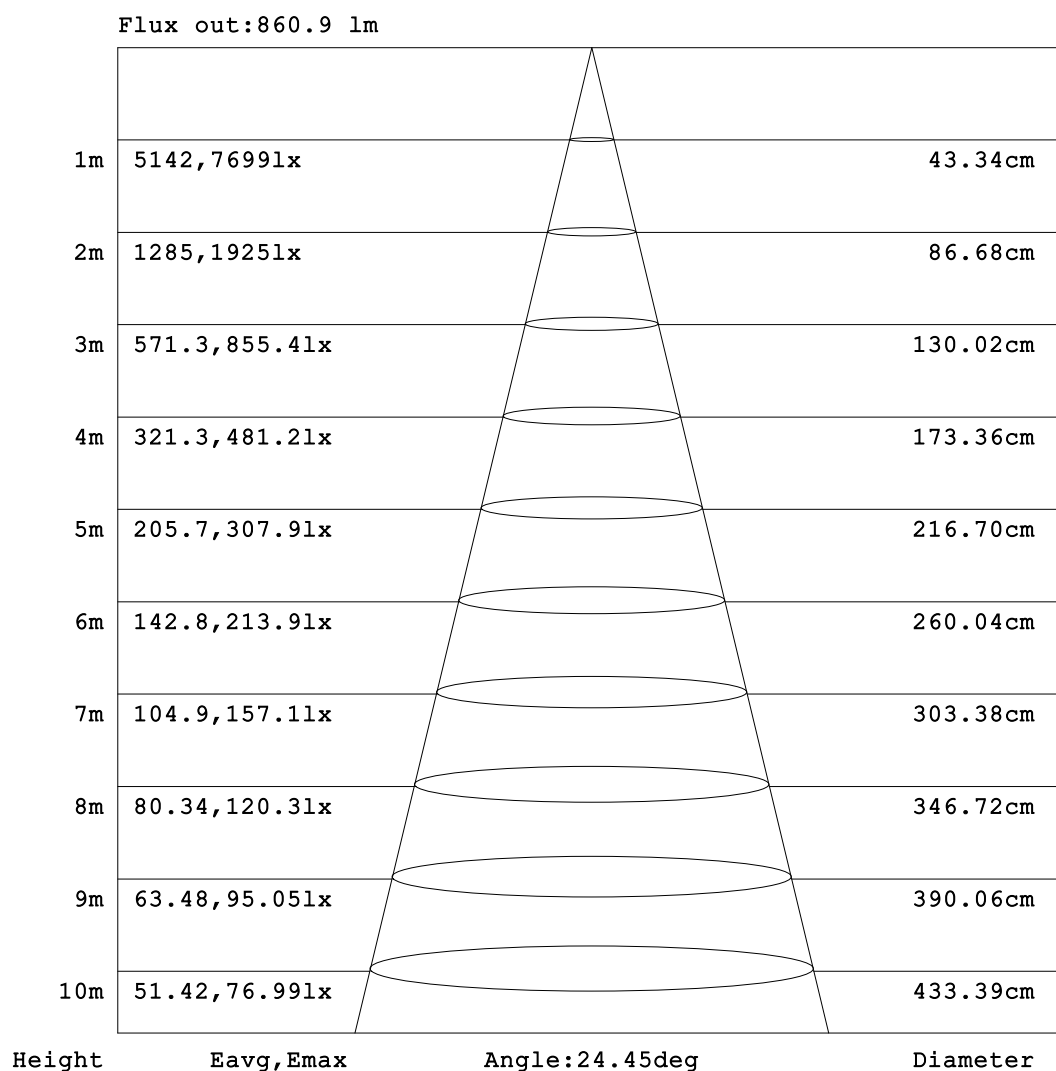
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Cloud  
Test Date:2024-11-08

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity:65.0%  
Test Distance:6.360m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:24.00V I:1.493A P:35.83W PF:1.000 Freq:0Hz Lamp Flux:1924.39x1 lm		
NAME: AW01-24V-3535-18-4000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



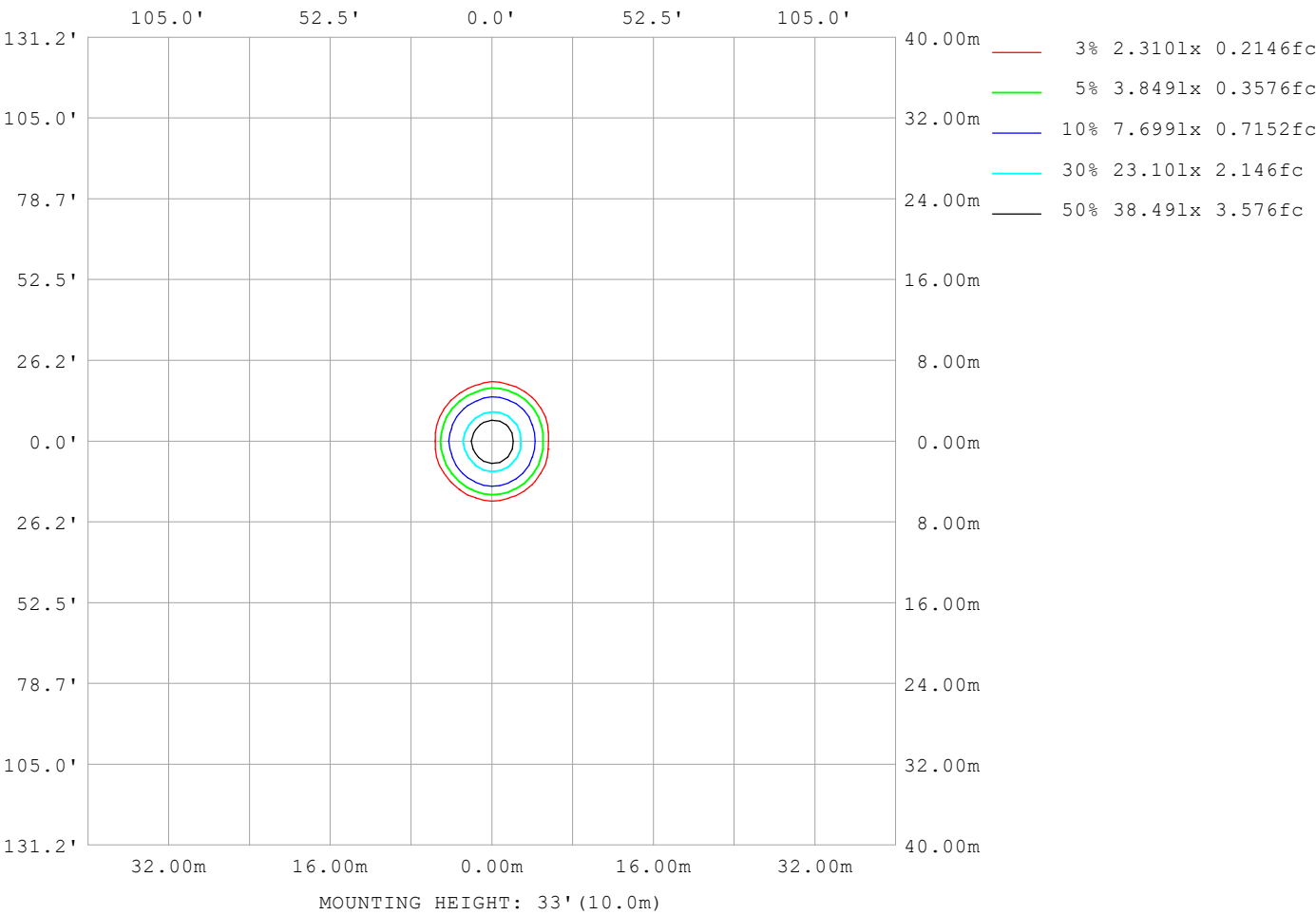
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Cloud  
Test Date:2024-11-08

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity:65.0%  
Test Distance:6.360m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM

Test:U:24.00V I:1.493A P:35.83W PF:1.000 Freq:0Hz Lamp Flux:1924.39x1 lm		
NAME: AW01-24V-3535-18-4000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 22.5DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Temperature:25.3℃	Humidity:65.0%
Operators:Cloud	Test Distance:6.360m [K=1.0000]
Test Date:2024-11-08	Remarks:

## LED Avg.L Report

Test:U:24.00V I:1.493A P:35.83W PF:1.000 Freq:0Hz Lamp Flux:1924.39x1 lm		
NAME: AW01-24V-3535-18-4000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

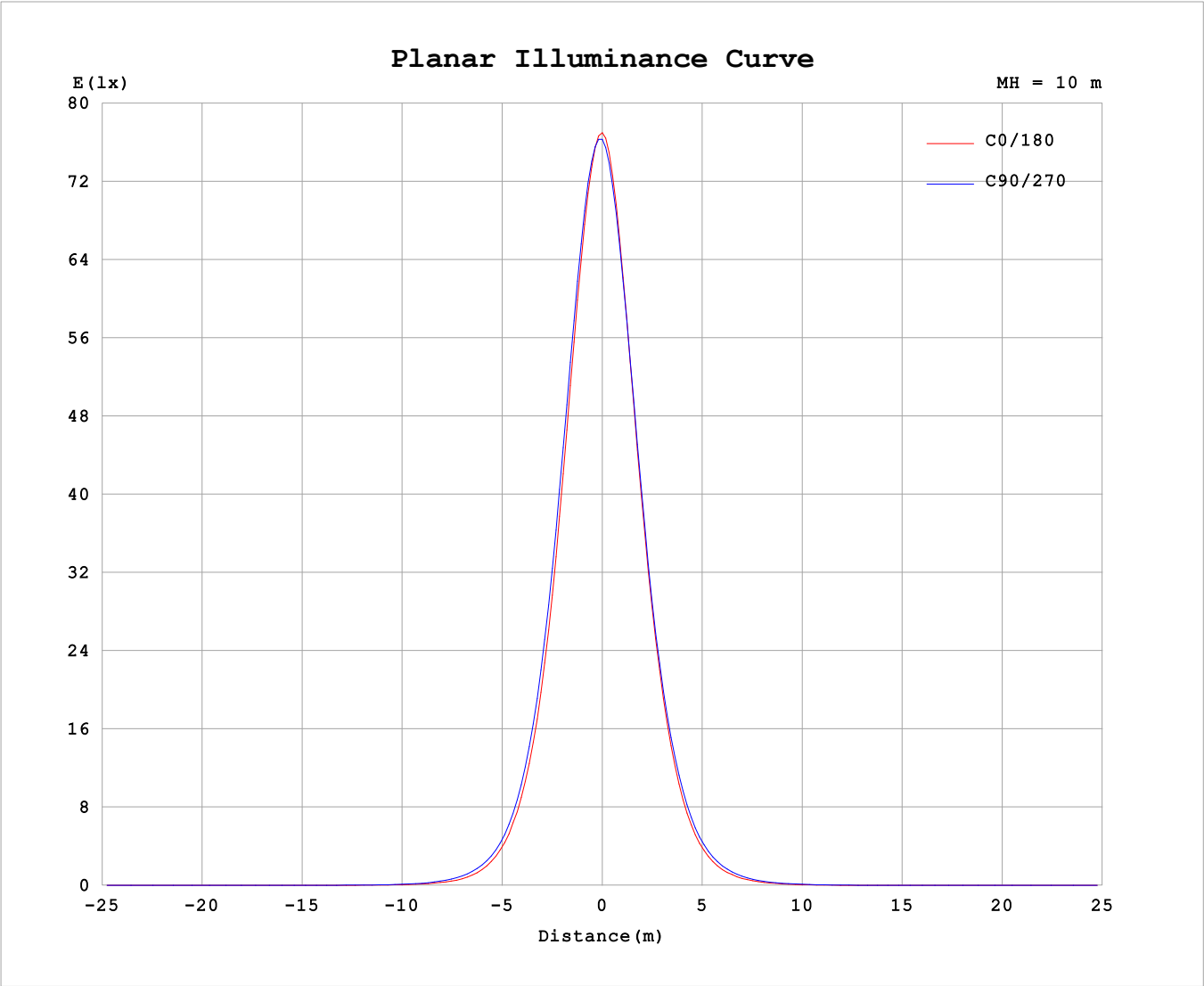
AvgL	cd/m2
L_0~180 (65) av	699
L_0~180 (75) av	1057
L_0~180 (85) av	2790
L_90~270 (65) av	737
L_90~270 (75) av	1064
L_90~270 (85) av	2819
L_45 (65) av	746
L_45 (75) av	1073
L_45 (85) av	2812

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Cloud  
Test Date:2024-11-08

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.488  
Humidity:65.0%  
Test Distance:6.360m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 22.5DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Temperature:25.3℃	Humidity:65.0%
Operators:Cloud	Test Distance:6.360m [K=1.0000]
Test Date:2024-11-08	Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:1.493A P:35.83W PF:1.000 Freq:0Hz Lamp Flux:1924.39x1 lm		
NAME: AW01-24V-3535-18-4000-80-30-B-1000	TYPE:	WEIGHT:
SPEC.:	DIM.: Length=1m	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

[illegible]

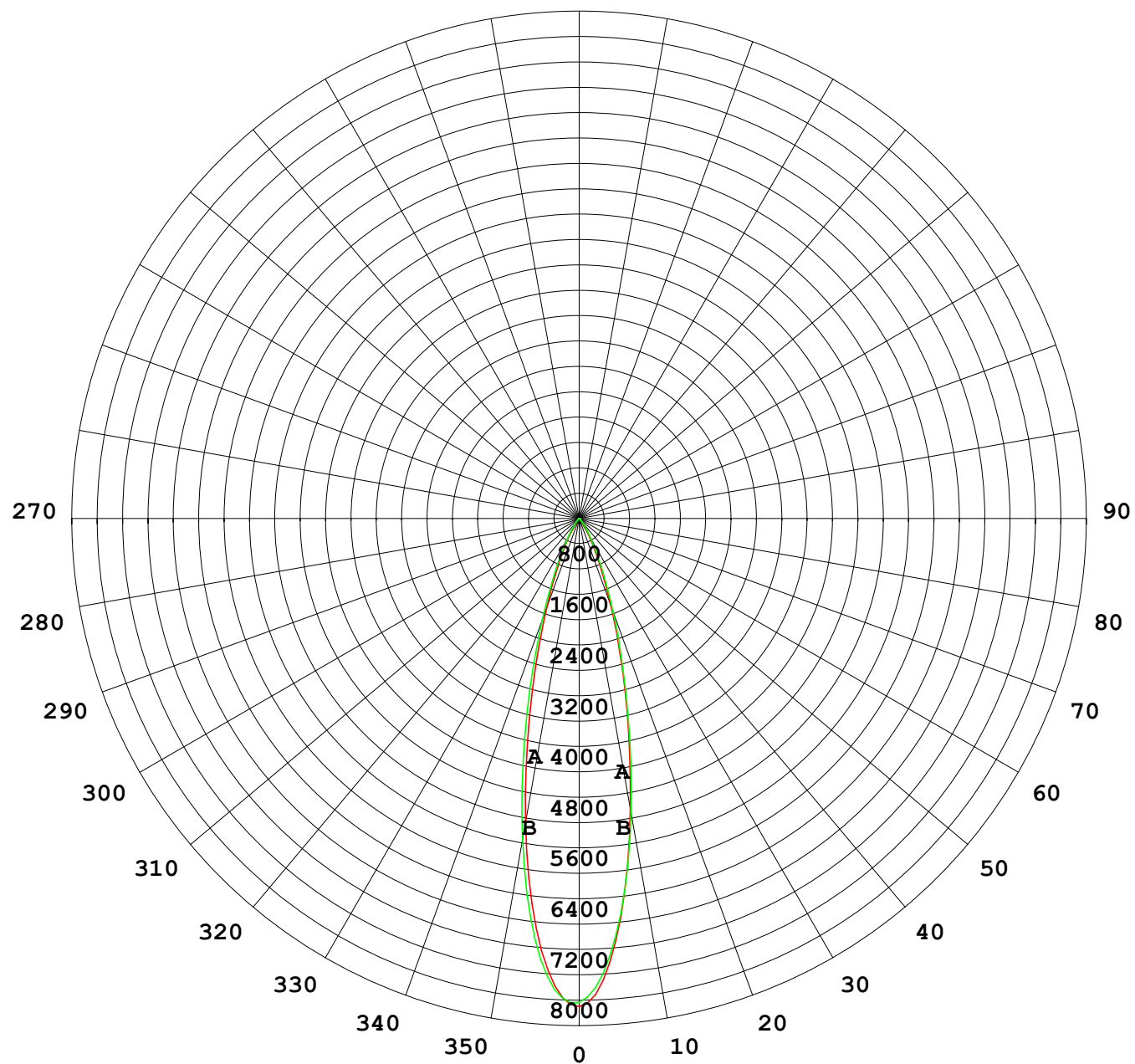
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3℃  
Operators: Cloud  
Test Date: 2024-11-08

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.360m [K=1.0000]
Remarks:

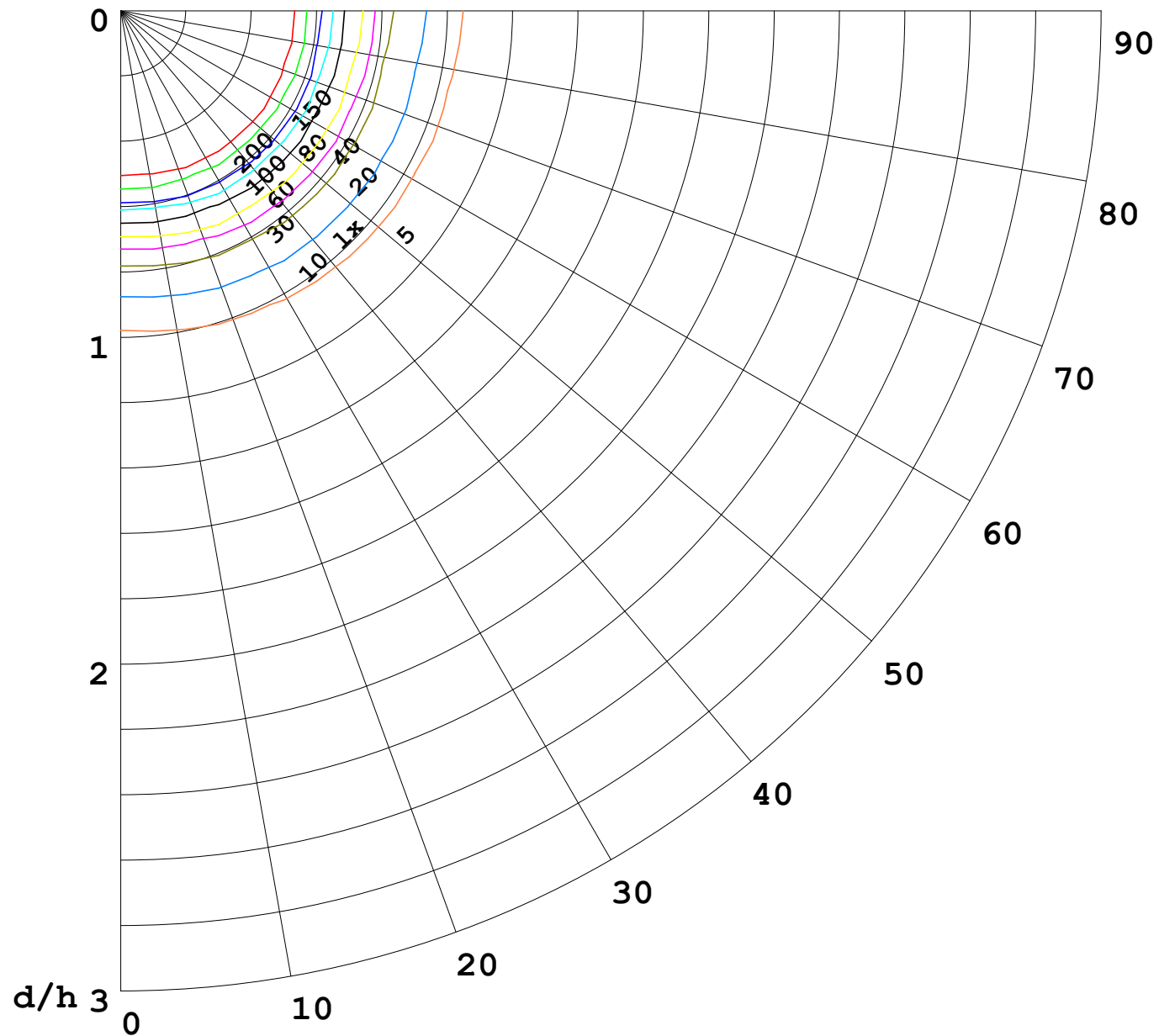
```

I (cd)



1000 lm

$\kappa = 1$



	Pcc	Pw	Pfc
_____	70	50	30
=====	50	30	20

