

Set Lighting Technician's Handbook

Film Lighting Equipment, Practice,
and Electrical Distribution



HARRY C. BOX

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Table 3.17 Fluorescent Correction Gels

Name	Rosco Cinegel No.	Lee No.	GAM No.	Nominal CC Equivalent	Unfiltered CC Reading	Exposure Change (stops)
Minus-green	3308	247	1580	30 magenta	+13	1
$\frac{1}{2}$ minus-green	3313	248	1582	15 magenta	+6	$\frac{1}{2}$
$\frac{1}{4}$ minus-green	3314	249	1583	7.5 magenta	+3	$\frac{1}{4}$
$\frac{1}{8}$ minus-green	3318	—	1584	3.5 magenta	+1	$\frac{1}{8}$
Plus-green	3304	244	1585	30 green	-12	$\frac{1}{4}$
$\frac{1}{2}$ plus-green	3315	245	1587	15 green	-5	$\frac{1}{2}$
$\frac{1}{4}$ plus-green	3316	246	—	7.5 green	-2	$\frac{1}{4}$
$\frac{1}{8}$ plus-green	3317	—	—	3.5 green	-1	$\frac{1}{8}$
Fluorescent 5700 ^a	—	241	—	—	—	$1\frac{1}{2}$
Fluorescent 4300 ^b	—	242	—	—	—	$1\frac{1}{2}$
Fluorescent 3600 ^c	—	243	—	—	—	$1\frac{1}{4}$
Fluoro-Filter ^d	3310	—	1590	30 magenta	+13	$1\frac{1}{2}$
Plus-green 50 ^e	3306	—	—	30 green	—	$1\frac{1}{2}$

^aConverts a 3200K source to 5700K (cool white or daylight fluorescents).

^bConverts a 3200K source to 4300K (white fluorescents).

^cConverts a 3200K source to 3600K (warm white fluorescents).

^dCorrects cool whites to 3200K and removes green.

^eCorrects 3200K source to match cool whites.

Minus-green gel comes in rolls. When gelling fixtures that have frosted plastic panels, you can cut sheets to lay inside each fixture. For bare fluorescent tubes, you can cut the gel to fit inside the clear plastic sleeves that are widely available to protect people in public places in case of lamp breakage.

Once the green is removed, daylight fluorescents will mix with daylight and HMI sources. The scene is filmed with daylight-balanced film or tungsten film with an 85 filter on the lens.

In a room with many large windows, it is best to correct everything to daylight because the alternative, gelling the windows to tungsten, is uneconomical and time-consuming. Gels are expensive. Production managers are always reproaching lighting crews for the quantities of gel they use.

Supplemental lighting is provided by HMI lights or by portable banks of color-corrected fluorescent lights to supplement the ceiling light. Daylight-corrected tungsten lights can also be used, but they are inefficient and tend to be clumsy.

Matching to Tungsten The most common way to match fluorescent lights to tungsten color balance is to replace all the fluorescent tubes with Optima 32 tubes