

**Jim's Handy Dandy Fluorescent / Discharge lamp Pages** - In a happy circumstance the nice folks at Rosco have conveniently just provided a new publication entitled "Rosco Filter Facts" that is available free from the dealers. I have abridged the charts and combined them into something useable by our folks in a short convenient format. Enjoy. *All Copyrights and trademarks apply.* Remember. Since this info is from Rosco, their products are specified. It is believed the info is accurate, but no warranties are made or implied. Additions and/or updates are always welcome - contact me at [JFranz2777@aol.com](mailto:JFranz2777@aol.com) . Multiple names/supplier no.'s indicated with slash ( / ).

12/05

| Lamp Group | GE                       | Sylvania                  | Phillips                | Osram            | K°    |
|------------|--------------------------|---------------------------|-------------------------|------------------|-------|
| F1         | SpX27/ Polylux27         | Incandescent/ 27K/ 827    | Ultralume27/ 27U/ 827   | Lumilux41/ 827   | @2700 |
| F2         | Warm White (WW)/ 29      | Warm White (WW)/ 129      | Warm White (WW) / 29    | 30 Warm White    | @3000 |
| F3         | Warm Deluxe (WWX)        | WarmWhiteDelux(WWX)       | Warm Delux (WWX)        |                  | @3100 |
| F4         | SP-30                    | Designer30 / D30          | Spec30 /730             |                  |       |
| F5         | SPX30/ Polylux830        | Designer830 / D830        | Ultralume30/ 30U/ 830   | Lumilux 31/ 830  | @3000 |
| F6         | SP-35/35White            | Designer35/D35/135White   | Spec 35 / 735 /35White  | 23 White         |       |
| F7         | SPX35/ Polylux 835       | Designer 835/ D835        | Spec35/ 35U/ 835        | Lumilux 26/ 835  | @3500 |
| F8         | CoolWhite (CW) /33       | CoolWhite (CW) / 133      | CoolWhite(CW) /33       | 20 CoolWhite     | @4500 |
| F9         | SP41/25Natural/Universal | Designer 41/ D41/125 Nat. | Spec41/41u/841/25Univ.  | 25 Natural White |       |
| F10        | SPX41/Polulux 840        | Designer41/D841/840       | Ultralume41/41u/841/840 | Lumilux21/ 840   | @4100 |
| F11        | Cool Deluxe (CWX)        | Cool Delux (CWX)          | Cool Deluxe (CWX)       |                  | @4175 |
| F12        | Chroma 50                | Design 50                 | Colortone 50            |                  | @5000 |
| F13        | SP65/54 Daylite          | Designer 65/154 Daylight  | Daylight 65/Daylight 54 | 10 Daylight      | @6500 |

Find the manufacturers' fluorescent designation in the chart - usually found somewhere printed on the globe - determine the lamp group to which the globe type(s) belong. Determine whether you want to correct fluorescent, tungsten or daylight and use the appropriate chart below. Use the recommendation as a starting point - it will bring you VERY close. Westinghouse is no longer in the globe business - see Sylvania/Phillips. Kino-Flo, Visions in Color, Duro-Test and other companies also produce fluorescents for studio use and the units are normally very close to whatever rating is stated on the tube, Check Tube labels first! **Important Fluorescent Notes:** Check the old tube for a label as you remove it, since lengths available are not always as measured. The "T" is the type (size) diameter of the tube (not length) T-8 and T-12 bulbs will often interchange. The "F" is usually the apparent wattage, but could mean the size depending on mfr. and practices. Get the old size and write it down.

**Page 2 Fluorescents and stuff.**

These tables are from ROSCO with their product designations. They are believed to be correct.

| Lamp Group | Fluorescent to Tungsten | Fluorescent to Daylight  | Tungsten to Fluorescent | Daylight to Fluorescent |
|------------|-------------------------|--------------------------|-------------------------|-------------------------|
| F1         | 1/4 CTB                 | CTB+1/4 CTB              | 1/4 CTO                 | CTO                     |
| F2         | 1/4 CTO+Minusgreen      | ½ CTB+Minusgreen         | 1/4 CTB + Plusgreen     | ½ CTO + Plusgreen       |
| F3         | 1/4 CTO+1/4 Minusgreen  | CTB + 1/4 Minusgreen     | 1/4 CTB + 1/4 Plusgreen | ½ CTO + 1/4 Plusgreen   |
| F4         | 1/4 CTO+Minusgreen      | ½ CTB + Minusgreen       | ½ CTB + Plusgreen       | 1/4 CTO + Plusgreen     |
| F5         | 1/4 CTO+1/2 Minusgreen  | ½ CTB + ½ Minusgreen     | ½ CTB + ½ Plusgreen     | 1/4 CTO + ½ Plusgreen   |
| F6         | ½ CTO+ Minusgreen       | 1/3 CTB +Minusgreen      | ½ CTB + Plusgreen       | 1/8 CTO + Plusgreen     |
| F7         | ½ CTO+ ½ Minusgreen     | 1/3 CTB + ½ Minusgreen   | 3/4 CTB + ½ Plusgreen   | 1/4 CTO = ½ Plusgreen   |
| F8         | 3/4 CTO+ Minusgreen     | Minusgreen               | CTB + Plusgreen         | Plusgreen               |
| F9         | 3/4 CTO+ Minusgreen     | Minusgreen               | CTB + Plusgreen         | Plusgreen               |
| F10        | 3/4 CTO+ ½ Minusgreen   | ½ Minusgreen             | 3/4 CTB + ½ Plusgreen   | ½ Plusgreen             |
| F11        | ½ CTO+ 1/4 Minusgreen   | 1/3 CTB + 1/4 Minusgreen | 3/4 CTB + 1/4 Plusgreen | 1/4 CTO + 1/4 Plusgreen |
| F12        | 3/4 CTO+ 1/4 Minusgreen | 1/4 CTB + 1/4 Minusgreen | CTB + 1/4 Plusgreen     | 1/4 CTO = 1/4 Plusgreen |
| F13        | CTO+ Minusgreen         | 1/4 CTO + Minusgreen     | CTB+1/4 CTB+Plusgreen   | 1/4 CTB + Plusgreen     |

**Fluorescent Suffix Data**

W- White Fluorescent -3450°K (bluish)  
 WW (Warm White) -3000°K (yellowish)  
 WWD(WarmWhiteDelux) -3100°K (close to  
 also WWX (Studio white)  
 CW (Cool White) -4500°K (blue)  
 CWX (CW Deluxe) -4175°K (bluish)  
 also CWD  
 RW - Royal White 3000°K (yellow-ish)  
 Natural White (F40N) -3600°K (a bit blue)  
 Lite White (Super Saver) -2900°K (orange-ish)  
 (F40LW/RS/SS)

SPX - (SPX30) 3000°K (yellowish)  
 SPX35 -3300°K (white)  
 SPX41 -4100°K (bluish)  
 C50 (Cyan) -5000°K (blue)  
 SGN -5200°K (blue)  
 C75 -7500°K (daylite  
 blue)  
 SPXBL(B) - Black Light (UV) Kelvin NA  
 \*Super Blue -420nm spike for Blue Screen  
 \*Super Green-560nm spike for Green Screen  
 \*Super Red - Spike for Red Optical  
 \*Special Sodium Yellow - Yellow Optical

**Opinions on Color are those of the author.**

**NOTE:** Kino-flo lamps are optimized for Kino fixtures and ballasts.  
 Westinghouse is no longer is in the globe business - see Sylvania/Phillips.  
 See Below for Some Discharge Lamp Data (Stadium, General Illumination Only - NOT HMI Studio Stuff!)

### Page 3 Fluorescents and Discharge Lamps

(Stadium/General Illumination ONLY - *NOT* HMI Studio Type Lamps)

This is another compilation of data courtesy of Rosco and uses their product names it is also believed to be reasonably correct.

Find the type of globe (usually marked on the fixture as well as the globe) note the group and look it up. Note: as globes get older, color temps change! You can NEVER be 100% sure all globes are the same. BE CAREFUL! **SPECIAL NOTE:** Low Pressure Sodium lamps do not have a spectrum that is easily correctable, it is not recommended to attempt this since it almost never seems to work right.

| Lamp Grp          | GE   | Sylvania                | Phillips                | Osram      |
|-------------------|--|-------------------------|-------------------------|------------|
| D1LoPress. Sodium | SOX  | SOX / SLP               | SOX                     | SOX        |
| D2HiPress. Sodium | Lucalux/ LU                                | Lumalux / LU/ SHP / SHX | SDW / SON               | NAV        |
| D3Clear Mercury   | HR / H                                     | H / HSL / BW            | H / HPL (not ANSI code) | HQL        |
| D4DeluxeMercury   | HR / DX / H\NDX                            | H\DX / HSL\SC           | H\DX /HPL Comfort       | HQL Deluxe |
| D5Metal Halide3K  | MVR/SP30(730)/ MXR(sp30)/ 732 /WDL/ ARC730 | M3K/ MH3K/ HSI3K/ WDL   | MH3K / MHW              | HQI/WDL    |
| D6Metal Halide 4K | NDL740/ MVR740/                            | M / HSI 4K              | MHN / MH                | HQI/NDL    |

| Lamp Grp. | Discharge to Tungsten   | Discharge to Daylight      | Tungsten to Discharge   | Daylight to Discharge     |
|-----------|-------------------------|----------------------------|-------------------------|---------------------------|
| D1        | Not Recommended         | NR                         | NR                      | NR                        |
| D2        | 3/4CTB+2xMinusgreen     | 2xCTB+2x Minusgreen        | 2x Plusgreen            | 1 1/2CTO+1 1/2 MinusGr.   |
| D3        | Not Recommended         | 1 1/4CTO+1 1/4 Minusgreen  | NR                      | 2x CTB+ 2xMinusgreen      |
| D4        | 1 3/4 CTB + Plusgreen   | 1/4 CTO + 1 1/2 Minusgreen | 1 3/4 CTB+ Plusgreen    | 3/4 CTB + 1 1/2 Plusgreen |
| D5        | 1/4 CTO + 1/2 Plusgreen | CTB + 1/4 Plusgreen        | 1/3 CTB+ 1/4 Minusgreen | 3/4CTO+1/4 Minusgreen     |
| D6        | 1 1/4 CTO + Minusgreen  | 1/8CTO+ Minusgreen         | 1 1/2CTB + Plusgreen    | 1/2 CTB + Plusgreen       |