

Projected Beam Pattern of Colorlight Signal with Red Lens at 5-feet onto white wall  
Picture on Left is with Slide-on CLS Reflector and Picture on Right without Slide-on CLS Reflector

Projected beam patterns at 5-feet with CLS Slide-on Reflector  
Lamp was 10V25W Lit with 10.0 Volts measured at the Lamp  
Luminous Intensity Measurement – **1407 footlumens**



Projected beam pattern at 5-feet without CLS Slide-on Reflector  
Lamp was 10V25W Lit with 10.0 Volts measured at the Lamp  
Luminous Intensity Measurement – **462 footlumens**



The Camera used was a “Sony Digital Mavica” mounted on a tripod with the flash turned off, so that both pictures would be comparable for illustration purposes. Please note how the left picture with the CLS Slide-on Reflector intensifies the pattern and color, making the projected beam pattern fuller and with a more distinguishable color, which will aid train crews in identifying the color signal aspect. We used the red lens because we found that this color when compared with yellow or green had less projected color intensity than the other colors, and offers the best color for illustrating the performance of the CLS Slide-on Reflector.

Our evaluation indicated, a single point light source (light bulb) with a reflector that was designed to intensify the path of the light from the filament onto the same area of the existing lens set without a reflector was best for increasing the projected luminous intensity of color light signals.

We suggest that you use the “CLS Slide-on” samples for your evaluation, and also compare with LED arrays to determine what does the best job, then if you are satisfied with the improvement of the projected luminous intensity beam patterns, purchase them.

CLSPictureWith-WithoutCLS RF 05-08.doc

Picture is the Property of TransLight Corp, and for illustration purposes – The CLS Slide-on reflector is a Patent Pending device.