

Define Test Source Spectrum P\_T

* 1. Compute Ref Source Spectrum P\_R
     1. Compute CCT of P\_T
     2. Derive reference Spectrum P\_R
        1. Planck (< 3400K)
        2. Daylight (> 5000K)
        3. Mixed (between 3400 and 5000K)

Scale reference spectrum such that s(560) = 100

* 1. Test Samples S\_i
  2. Camera
     1. Response curves r, g, b
        1. Define white sample,
           1. Compute white balance factors for P\_T
           2. Compute white balance factors for P\_R
        2. Compute R\_C, G\_C, B\_C with white balance for all P and S
           1. Check for clipping, exclude such samples
     2. Apply linear matrix M -> R\_M, G\_M, B\_M
        1. Apply saturation control -> R\_B, G\_B, B\_B
     3. Apply Gamma, using the correct formula including – 0.099 -> R\_C‘,G\_C‘, B\_C‘
        1. Check for clipping, exclude such samples
  3. Display
     1. Gamma -> R\_D, G\_D, B\_D
     2. Display primaries Matrix, -> X, Y; Z