
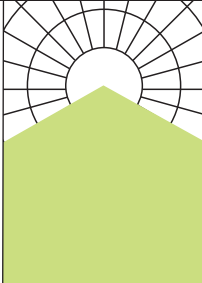

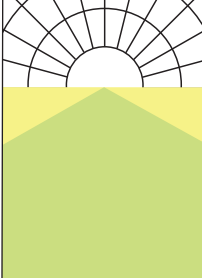


Key Product Criteria for Commercial LED Lighting			
Correlated Color Temperature (CCT)	For indoor products, the following designated CCTs fall within the 7-step measurement of color quality of light as defined in the ENERGY STAR criteria: 2700 K, 3500 K, 4000 K, 4500 K, 5000 K. The allowable CCTs for outdoor products are the same as for indoor products, but also include 5700 K and 6500 K.		
Color Spatial Uniformity	The variation of color of light in different directions (i.e., with a change in viewing angle) shall be within 0.004 from the weighted average point on the CIE 1976 (u',v') diagram.		
Color Maintenance	The change of color of light over the lifetime of the product shall be within 0.007 on the CIE 1976 (u',v') diagram.		
Color Rendering Index (CRI)	Indoor products CRI ≥ 75		
Off-state Power	0 watts Exception: ≤ 0.5 watts permitted for products with occupancy sensor.		
Warranty	3 years		
Applications	Minimum Light Output (Based on initial lumens)	Minimum Luminaire Efficacy	Zonal Lumen Density (Based on initial lumens)
 Portable Desk Task Lights	200 lumens	29 lm/W	 ≥85% of total lumens within the 0-60° zone (bilaterally symmetrical)
 Shelf Mounted Task Lights	125 lumens per linear foot	29 lm/W	 ≥60% of total lumens within the 0-60° zone and ≥25% of total lumens within the 60-90° zone (bilaterally symmetrical)

PLS luminaires meet the DOE Energy Star for SSL performance requirements when used with a 60W Power Supply and Occupancy Sensor.