

Pick a particular light source appropriate for the application to deliver that illuminance. Each light source can be characterized by its scotopic-to-photopic (S/P) ratio; see Table 2 for a convenient listing of S/P ratios of commercially available light sources used in outdoor lighting applications. For example, consider a 400 W clear high pressure sodium (HPS) lamp. From Table 2, the corresponding S/P ratio is 0.66.

Table 2. S/P ratio of commercially available light sources.

Low pressure sodium	0.25
High pressure sodium (HPS) 250 W clear	0.63
HPS 400 W clear	0.66
HPS 400 W coated	0.66
Mercury vapor (MV) 175 W coated	1.08
MV 400 W clear	1.33
Incandescent	1.36
Halogen headlamp	1.43
Fluorescent Cool White	1.48
Metal halide (MH) 400 W coated	1.49
MH 175 W clear	1.51
MH 400 W clear	1.57
MH headlamp	1.61
Fluorescent 5000 K	1.97
White LED <sup>1</sup> 4300 K	2.04
Fluorescent 6500 K	2.19

<sup>1</sup> The S/P ratios of phosphor-converted white LEDs are bin and manufacturer specific.