DUSK TO DAWN

User Guide

Sunco Lighting Dusk to Dawn LED lights include a sensor to detect light levels at night. The Dusk to Dawn sensor turns on the LED when no light is detected at night then turns the LED off again when light is detected. Just power it on for the sensor to detect light levels and illuminate the night. All D2D light bulbs are designed for outdoor use only.

INFRARED AND RADAR PHOTOCELLS

INFRARED PHOTOCELL

Infrared photocells sensors are set off by either the heat from incandescent lights or sunlight, not visible, ambient light.

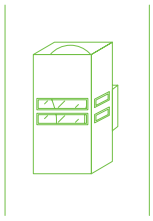
Temperature can slightly affect sensor behavior. Our bulbs contain components to help combat that. However, hot and cold temperatures may modify when a light turns on:

- When the sensor is warmer, it may turn on a bit earlier.
- When the sensor is cold, it may turn on a bit later.

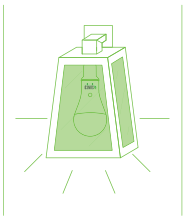
RADAR PHOTOCELL

Radar photocells (like the Sunco PAR D2D Bulbs and Wall Packs) are triggered by sunlight or ambient lighting in the Visible Spectrum. They may turn off if other light sources are detected.

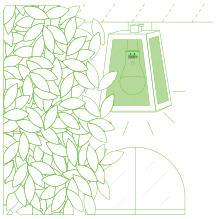
VISUAL TIPS



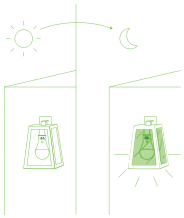
The Dusk to Dawn sensor cannot detect whether it is light or dark when the light fixture is closed.



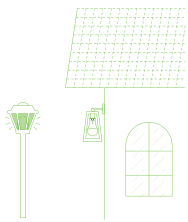
In an open fixture, the sensor will detect light through the clear glass panes and turn on at night.



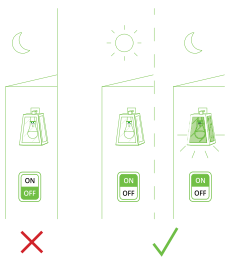
Even an open light fixture cannot function when hidden behind a tree or shrub. Here, the light is on during the day, because sunlight is not reaching it.



Sunco D2D lights turn on/off automatically and do not require a timer to activate. Avoid using them with a timer on the same circuit.



If a Dusk to Dawn LED is installed too close to another switched on light, the sensor may be fooled into thinking the light detected is daylight.



At night, the left D2D LED cannot turn on as there is no power. In contrast, the D2D on the right has power and the sensor can function properly.

DUSK TO DAWN
Manual

FOR BEST RESULTS...

Use at Night	Bulbs and fixtures with Dusk to Dawn technology only work at night.
Use Outside	Dusk to Dawn sensors are designed to be used outside to detect light levels of the sun. • A commercial exception: Use Dusk to Dawn bulbs in retail or shop window displays for automated lights
Avoid Reflections	Dusk to Dawn sensors detect light. Make sure the sensor does not face reflective surfaces. Reflections can mimic sunlight. Avoid placing sensor near windows, glossy walls, and shiny floors.
Other Light Sources	Dusk to Dawn LEDs cannot tell the difference between sun rays and a bright light, they just look for light levels. If a bright light is detected, the light will not turn illuminate.

Spacing Dusk to Dawn	To avoid interference, space your Dusk do Dawn (D2D) LEDs:
	• PAR D2Ds at least 1.5ft (0.5m) apart
	• ST64 D2D and A19 D2Ds detect infrared (IR) light. Avoid placing more than 1 in the same fixture.
	• Wall Packs perform best at least
	  • 9.84ft (3m) from the ground
	  • 16.4ft (5m) from a side wall
	  • 32.8ft (10m) from another Wall Pack

Leave the Switch On	All Sunco Lighting Dusk to Dawn LEDs require power to operate. Turn on the light switch after you screw in the Dusk to Dawn LED bulb. The built in sensor will then turn on the LED when light is absent and off when light reappears.
No Timer Needed	Dusk to Dawn LEDs will automatically turn on when no light is detected by the sensor and turn off when light returns. They are not compatible with dimmers or timers.
Recessed Cans	Use dull trim inserts or cans that are not reflective inside the recessed can. This will avoid strobing/flashing issues.
Covering and Blocking	If the (visible) sensor is covered or blocked, it cannot function correctly to detect light levels. Either it won't turn on or it will stay on 24/7. Includes: • a solid light fixture where the housing blocks the sensor • a shrub, bush, or tree • the frosted or darkened glass pane of a light fixture • placing fixture inside an alcove where sun cannot reach • the sensor facing away from potential light sources
Choose Open Fixtures for PARs	PAR LED Bulbs with Dusk to Dawn should not be used in enclosed fixtures (even with clear glass panes) as the bulb could overheat or impact bulb lifespan. Suggested applications for PARs: • Dual spotlights (under a roofline or above a garage door or other doorway) • Landscape or signage uplights • Open wall sconce • Recessed cans