

# LIGHTSCOUT<sup>®</sup>

## DLI 100

### Turf

*Daily Light Meter*



**Use multiple DLI 100s to simultaneously compare light levels and the effect on turf health and quality.**

Relative Light Level	Daily Light Integral (DLI) mol·m <sup>-2</sup> ·d <sup>-1</sup>	Light intensity at Noon μmol·m <sup>-2</sup> ·s <sup>-1</sup>	Generalized Turf Quality
Low	2 to 10	100 to 400	Poor
Medium	10 to 20	400 to 800	Good
High	20 to 30	800 to 1,200	Excellent (cool season turf)
Very high	30 to 60	1,200 to 2000	Excellent (warm season turf)

Your turf needs water, nutrients, and light for healthy growth. Is your turf getting enough Photosynthetically Active Radiation? Measure PAR light with the DLI 100 Daily Light Meter.

If photons were raindrops, light meters would show the intensity of a rainstorm. A five-minute rainstorm may look impressive, but often provides less water than an all-day drizzle. As cumulative rainfall is measured with a rain gauge, the cumulative quantity of light is measured using the DLI 100, or a light sensor with a data logger. The daily total of quantum light is called the Daily Light Integral, or DLI, and is measured in units of mol·m<sup>-2</sup>·d<sup>-1</sup> (commonly, moles/day). DLI quantifies the light available to plants to perform photosynthesis.

On a winter day in the middle latitudes, turf can receive from 3 to 9 moles/day, depending on the proportion of clouds to sun. In the summer, the DLI for a sunny day is about 26 moles/day and, 12 moles/day for a cloudy day. But shade from trees can greatly reduce those values.

Each turf variety has its own DLI range for optimal growth, with warm-season turfgrass requiring a greater amount of light than cool-season turfgrass. DLI is directly correlated with turf quality, and a minimum amount of light is required for healthy turf. The DLI 100 Turf meter lets you know whether your turf is getting all the light it needs.

*Uses 3 LR44/A76 Batteries (included)  
Engineered in the USA, Made in China*

**Accurately measure the light  
“falling” on your turf!**

**TWO METERS IN ONE!**

Continuously displays light intensity (μmol)  
Sums light for 24 hours (mol)

**Spectrum<sup>®</sup>**  
**Technologies, Inc.**

3600 Thayer Court  
Aurora, Illinois 60504  
Toll Free: (800) 248-8873  
Phone: (815) 436-4440  
E-mail: [info@specmeters.com](mailto:info@specmeters.com)  
[www.specmeters.com](http://www.specmeters.com)