

GROVE™



Soltech

Grove Series Product Guide

US VERSION 2025

GROVE™

Discover Soltech's latest innovation in premium plant lighting: the Grove™.

This sleek bar light combines modern design with advanced functionality. Featuring touch-dimming power for customizable brightness and 360° rotation for versatile positioning, the Grove™ ensures both style and performance. With our signature warm-white spectrum and a durable aluminum body, the Grove™ delivers Soltech's unmatched quality while illuminating your space beautifully.

**Precision in Function,
Beauty in Form.**



Specifications



Singapore

CRI - 97

Power - 12 Watts

Light Color - Warm White

Cord Length - 7'10" (94 in)

Grove Color - Black / White

Color Temperature - 3000 K

Beam Angles - 360° Rotation

Guarantees - 5 year manufacturer's warranty

Weight - 8oz

Lumens - 900 lm

PPF - 36 $\mu\text{mol/sec}$

Lifespan - 50,000hrs

Frequency Range - 50/60 Hz

Operating Voltage - 120-240 VAC

Body - Length - 16.5"; Diameter - 1" Full

Unit - Length - 18"; Diameter - 1"

Environment - Do not get wet

FEATURES



Versatile

The Grove™ is perfect for nurturing a variety of indoor houseplants and herbs. Designed with magnetic brackets for 360° rotation and offering both screw-in and adhesive mounting options, this versatile LED bar light fits seamlessly under cabinets, on shelves, or as a wall-mounted feature.



Dimmable

With touch control for power and dimming, paired with energy-efficient LEDs, the Grove™ effortlessly merges indoor plant care with elegant home décor. It's the perfect solution for cultivating a greener, more stylish lifestyle.

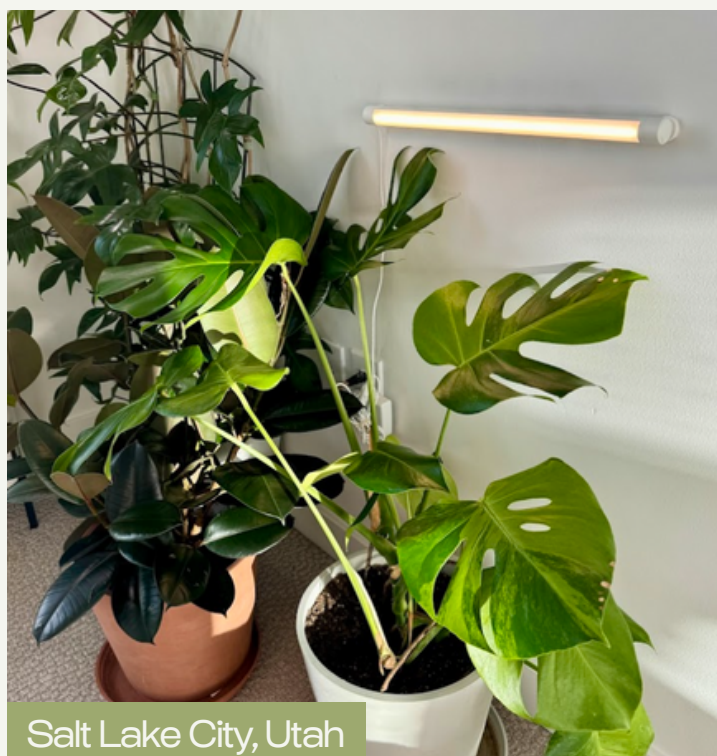


LED Light Engine

Our chip-on-board LED delivers a photosynthetic spectrum with museum-quality lighting and a uniform light source, boasting an impressive CRI of 97.

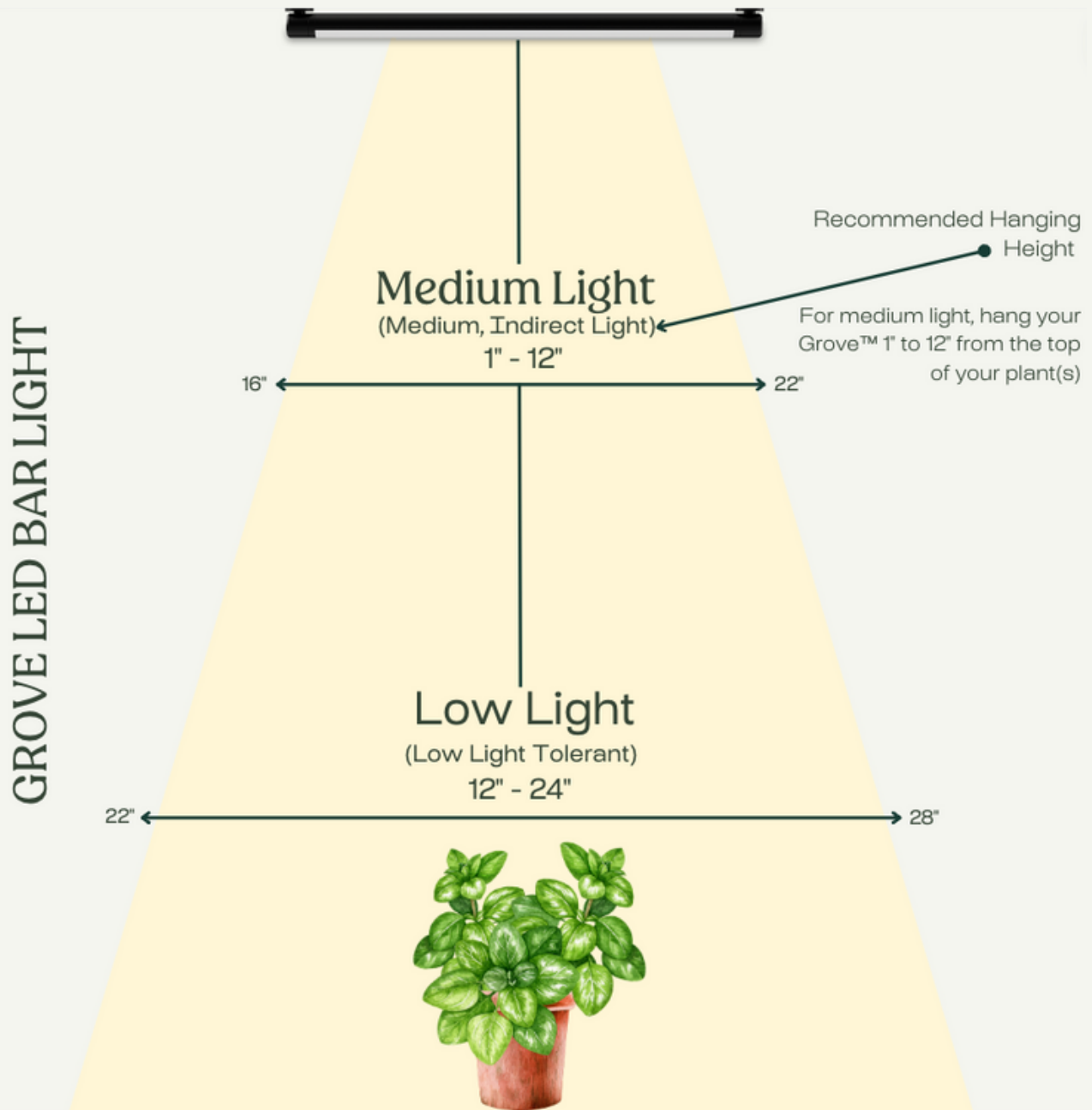


Costa Mesa, California



Salt Lake City, Utah

Installation Recommendations



Professional Performance

Optimize plant growth with the Grove™ LED Bar Light, designed for herbs, tropical plants, and foliage in low-light environments. Whether nurturing culinary herbs or showcasing retail orchids, the Grove™ provides reliable, high-quality lighting to meet your commercial needs.

Horticultural Lighting - Integrating Sphere

Integrating Sphere Test Conditions

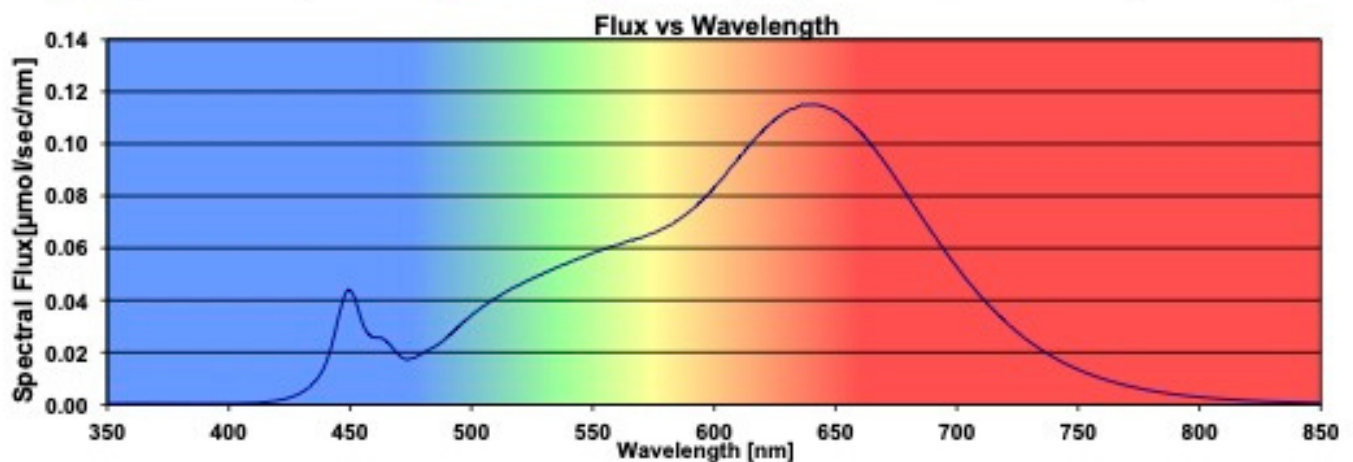
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120VAC	0.185 A	11.01 W	0.497	60 Hz	168.71 %

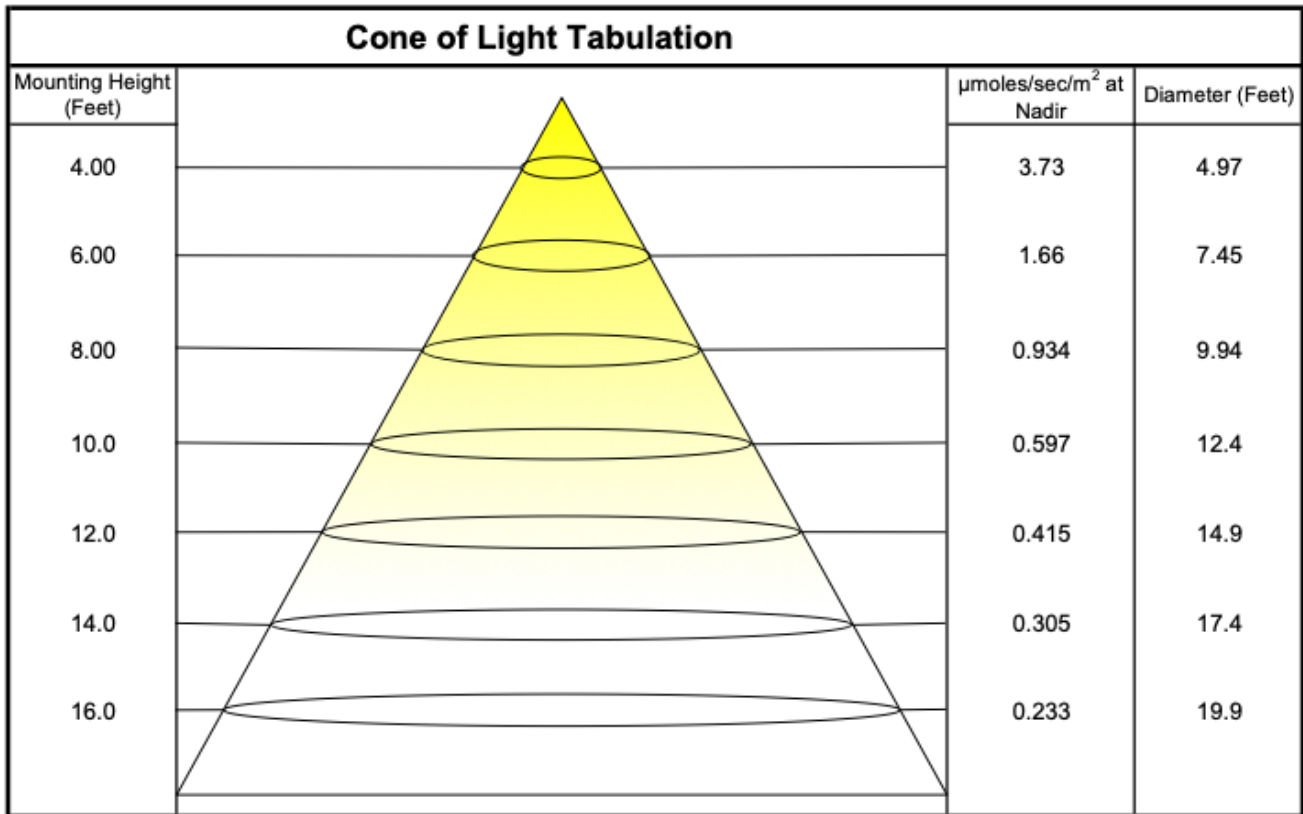
Summary of Results

Radiant Flux	3.77 Watts	Radiant Efficiency:	34.2 %
Luminous Flux:	976 Lumens	Luminous Efficacy:	88.6 lm/W
PBAR (350-800nm):	18.93 $\mu\text{mol/sec}$	PBAR Efficacy:	1.7 $\mu\text{mol/J}$
PPF (400-700nm):	17.00 $\mu\text{mol/sec}$	PPF Efficacy:	1.5 $\mu\text{mol/J}$
R/FR:	4.01	PSS:	0.83
Lumens to $\mu\text{mol/sec}$ conversion factor:		0.017430 $\mu\text{mol/sec/lm}$	

Photon Flux Summary versus Wavelength Bands

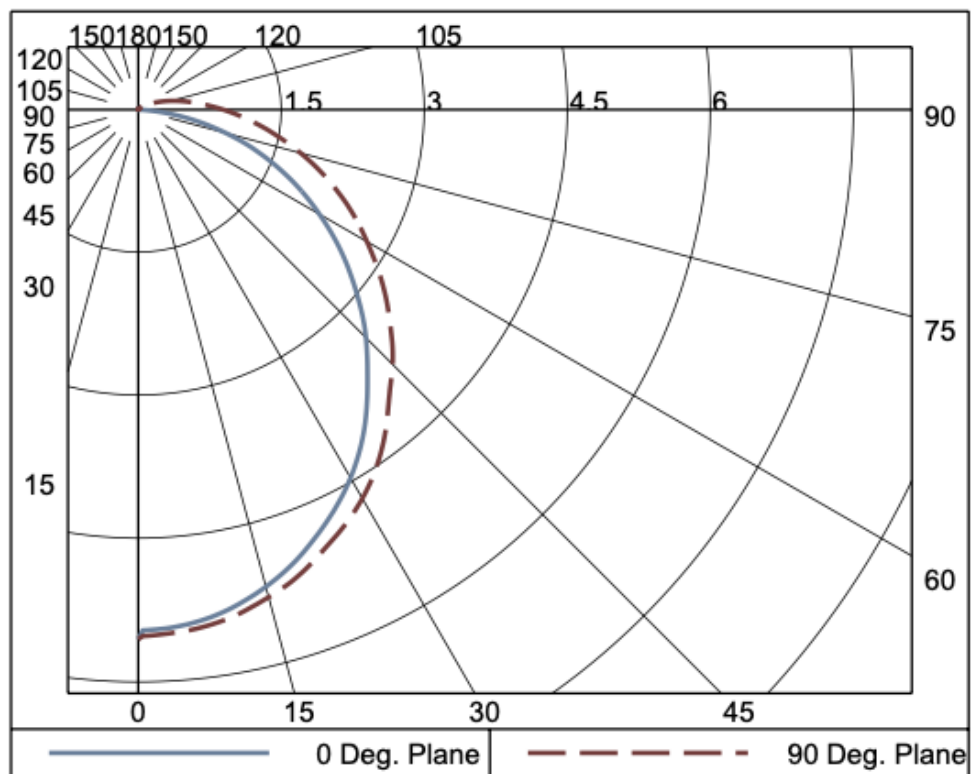
Photon Flux Summary Versus Wavelength Bands							
	Wavelength Range [nm]	Photon Flux [μmol/sec]	Total Photon Flux / % of Total		Wavelength Range [nm]	Photon Flux [μmol/sec]	Total Photon Flux / % of Total
UV	350 - 359	0.004622	0.0227 μmol/sec 0.12%	Red	600 - 609	0.880518	9.5357 μmol/sec 50.37%
	360 - 369	0.004717			610 - 619	0.992311	
	370 - 379	0.004577			620 - 629	1.086475	
	380 - 389	0.004370			630 - 639	1.139987	
	390 - 399	0.004423			640 - 649	1.142728	
Blue	400 - 409	0.005263	1.7099 μmol/sec 9.03%		650 - 659	1.093177	
	410 - 419	0.009796			660 - 669	0.997617	
	420 - 429	0.026769			670 - 679	0.871291	
	430 - 439	0.083911			680 - 689	0.733527	
	440 - 449	0.303348			690 - 699	0.598091	
	450 - 459	0.340888		Far Red	700 - 709	0.475217	1.8512 μmol/sec 9.78%
	460 - 469	0.239301			710 - 719	0.369550	
	470 - 479	0.181805			720 - 729	0.282501	
	480 - 489	0.221875			730 - 739	0.213257	
490 - 499	0.296989	740 - 749	0.159137				
Green	500 - 509	0.373500	5.7326 μmol/sec 30.28%	IR	750 - 759	0.118254	
	510 - 519	0.433075			760 - 769	0.087293	
	520 - 529	0.480569			770 - 779	0.064219	
	530 - 539	0.522947			780 - 789	0.047145	
	540 - 549	0.560805			790 - 799	0.034599	
	550 - 559	0.595536			800 - 809	0.025431	0.0775 μmol/sec 0.41%
	560 - 569	0.625426			810 - 819	0.018905	
	570 - 579	0.656737			820 - 829	0.014028	
	580 - 589	0.704794			830 - 839	0.010523	
	590 - 599	0.779162			840 - 850	0.008656	





Photosynthetic Photon Intensity Distribution

Photosynthetic Photon Intensity Distribution [$\mu\text{mol/s/sr}$]





Bethlehem, Pennsylvania