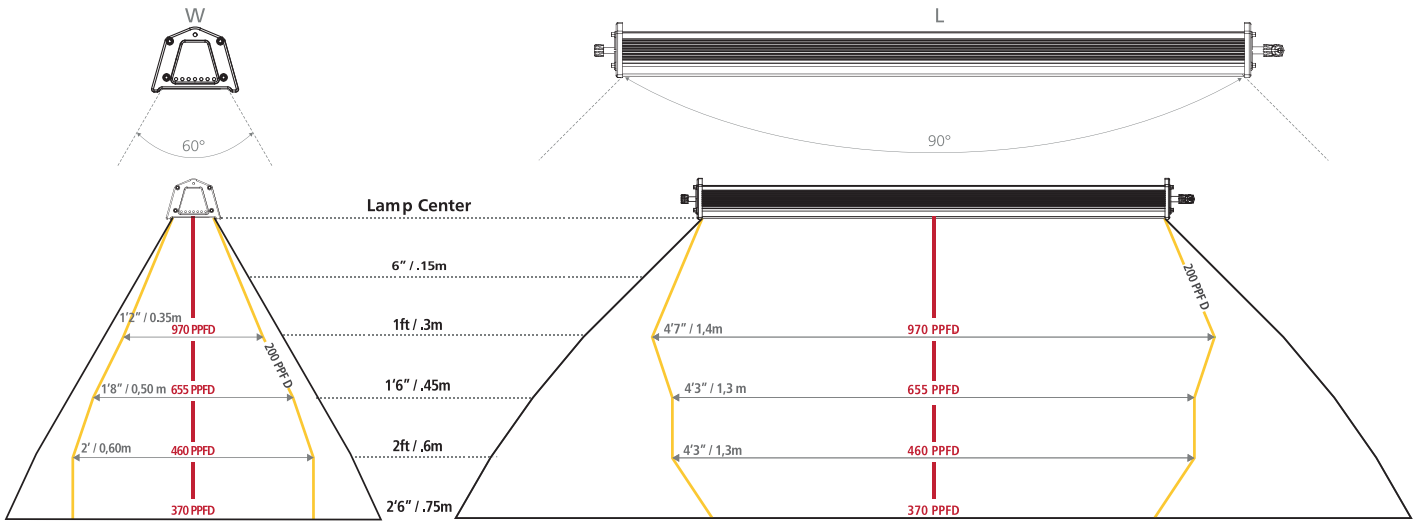


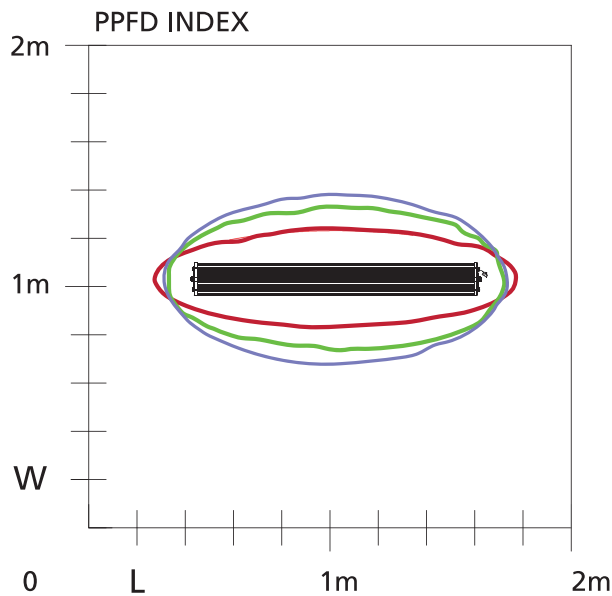
# LUCIUS LED SF SERIES - SINGLE ARRANGEMENT



MAXIMUM PPFD: ——— MINIMUM PPFD:200 ——— SHADOW STARTING POINT: ——— PPFD: Photosynthesis Photon Flux Density  $\mu\text{mol}/(\text{s}\cdot\text{m}^2)$

\*MIN OF 200 PPFD GROW LIGHT COVERAGE AREA TEST REPORT USING 150W LUCIUS LED GROW LIGHT

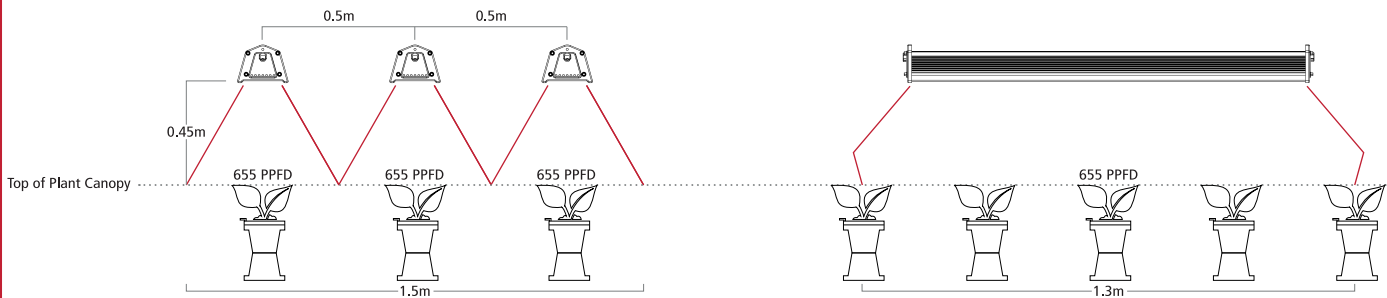
* Grow Light Coverage Area						
Height	W	L	PPFD INDEX	Height	W	L
1ft	1'2"	4'7"	200	0.30m	0.35m	1.4m
1'6"	1'8"	4'3"	200	0.45m	0.50m	1.3m
2ft	2'	4'3"	200	0.60m	0.60m	1.3m



# LUCIUS LED SF SERIES - MULTIPLE ARRANGEMENT

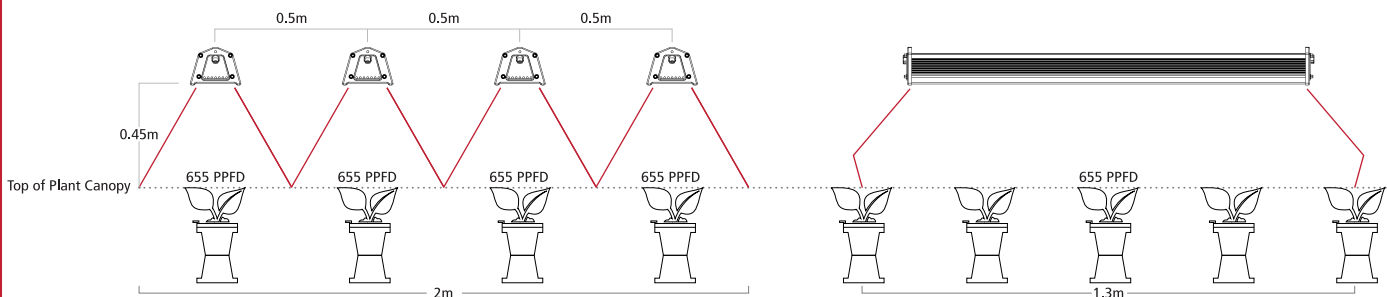
## COMPARING TO A 600W HPS LIGHT KIT

	Lucius LED SF Series	Comparison	600W HPS System
Arrangement type	Triple arrangement		Single Light kit
Distance from top of plant canopy	0.45m	LED can add 0.45m more canopy space	0.9m
Max PPFD	655 umol/sm <sup>2</sup>	Same max PPFD	660 umol/sm <sup>2</sup>
Average PPFD	455 umol/sm <sup>2</sup>	LED is 28% stronger than HPS	355 umol/sm <sup>2</sup>
Coverage area	1.5m x 1.3m	Same coverage area	1.5m x 1.3m
Consumption	450W	LED power saving is 35%	700W (boost option)



## COMPARING TO A 800W HPS LIGHT KIT

	Lucius LED SF Series	Comparison	800W HPS System
Arrangement type	Quad arrangement		Single Light kit
Distance from top of plant canopy	0.45m	LED can add 0.6m more canopy space	1.05m
Max PPFD	655 umol/sm <sup>2</sup>	HPS is 5% stronger than LED	690 umol/sm <sup>2</sup>
Average PPFD	470 umol/sm <sup>2</sup>	LED is 28% stronger than HPS	365 umol/sm <sup>2</sup>
Coverage area	2m x 1.3m	Same coverage area	1.5m x 1.7m
Consumption	600W	LED power saving is 35%	920W (boost option)



## COMPARING TO A 1000W HPS DE LIGHT KIT

	Lucius LED SF Series	Comparison	1000W HPS System
Arrangement type	Quad arrangement		Single Light kit
Distance from top of plant canopy	0.3m	LED can add 1.05m more canopy space	1.35m
Max PPFD	1000 umol/sm <sup>2</sup>	LED is 38% stronger than HPS	720 umol/sm <sup>2</sup>
Average PPFD	625 umol/sm <sup>2</sup>	LED is 65% stronger HPS	380 umol/sm <sup>2</sup>
Coverage area	1.4m x 1.4m	HPS can cover 45% more area	1.7m x 1.7m
Consumption	600W	LED power saving is 50%	1200W (boost option)

