

HIGHMAX HORTICULTURE LAMP

SKO200EA Series



PRODUCT DESCRIPTION:

MaxLite's 200-watt HighMax Horticulture lamps emit a broad range of Photosynthetically Active Radiation (PAR) to optimize plant growth. The HighMax is a high-wattage, self-ballasted, instant-on compact fluorescent lamp. With CCTs matched to plants' natural photonic receptiveness, and a cool operating temperature, the lamps maximize the conversion of power into the light most conducive to plant growth. The HighMax is available in both 120V and 277V.

Heat Management: All HighMax models are designed to manage heat so that lumen maintenance is maximized. Critical components (susceptible to heat failure) are chosen for their high heat tolerance. The body of the lamp is vented with patented air gaps to increase cooling air flow. Placed between the heat producing and heat-sensitive components is a thick aluminum wafer. This barrier is a heat sink, removing additional heat from the lamp.

THERMAL DOT CALLOUT:

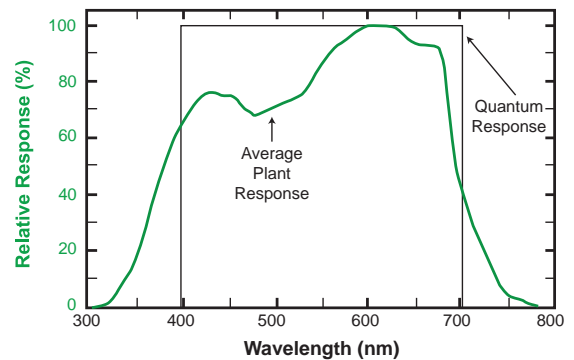
Using a heat-sensitive thermal dot, the HighMax shows suitable application environments. Located on the base of the lamp, the thermal sticker turns black if the lamp's ballast is hotter than 180°F, the rated temperature for its components.

FEATURES:

- Instant-on, ballast-free operation
- 10,000 hour mean time to failure
- Shortened Maximum Overall Length (MOL) to fit common fixtures
- Mogul (E39) base standard
- Operating temperature of 0°F - 100°F
- Integral heatsink maintains lamp temperature below 180°F
- Designed for use in dry locations only
- One year warranty

PHOTOSYNTHETICALLY ACTIVE RADIATION (PAR):

MaxLite's horticulture lamps are specifically designed to help plants germinate, develop, and flower. As seen in the graph¹ below, plants have variable growth responses to different colors of visible light. The HighMax Horticulture lamps focus irradiation on the light spectra that stimulate photosynthesis, the process that plants use to convert sunlight to energy. See [page 3](#) for the performance of the HighMax lamps as compared to this graph.



MODEL SELECTION (Full list of order codes on pg. 2)		Typical order example: SKO200EA65	
SKO	200EA		
FAMILY	WATTAGE (NOMINAL)	VOLTAGE	CCT
SKO= HighMax lamp	200EA= 200W, 400W MH/HPS equivalent	(OMIT)= 120V 2= 277V	22= 2200K, flowering 65= 6500K, full growth cycle






NOTES:

1. Cited graph reproduced from: McCree, K.J. 1972a. The action spectrum, absorbance and quantum yield of photosynthesis in crop plants. Agricultural and Forest Meteorology 9, 191-216. Please see [page 2](#) for accessories

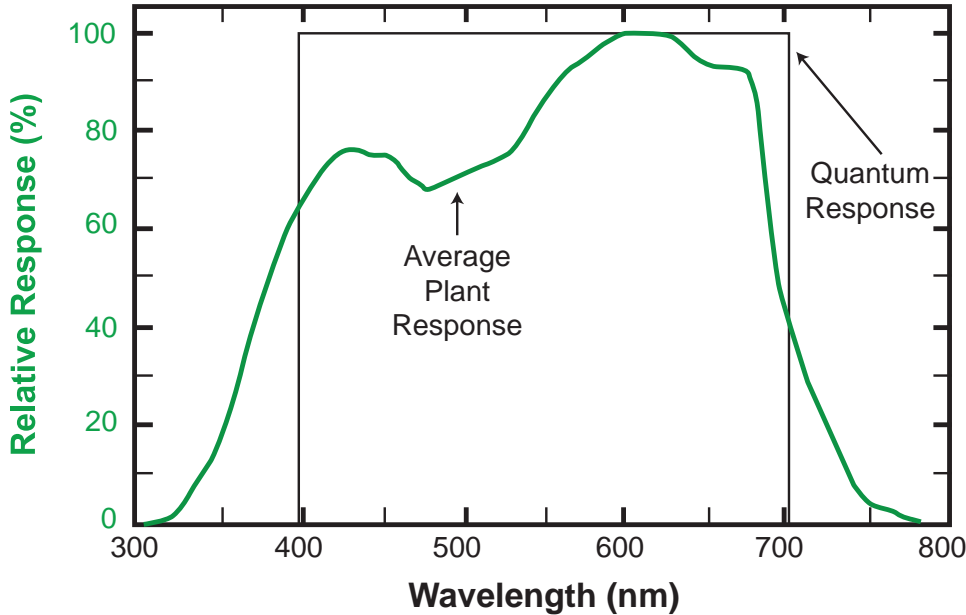
ORDERING*:

ORDER CODE	MODEL	VOLTAGE	WATTAGE	GROWTH SPECTRUM
75206	SKO200EA22	HMX	120	2200K, flowering spectrum
75207	SKO200EA222	HMX	277	
75208	SKO200EA265	HMX	277	6500K, flowering spectrum
75209	SKO200EA65	HMX	120	

*Please contact your MaxLite representative to order products that don't have order codes listed here.

ACCESSORIES			
ORDER CODE	MODEL NUMBER	DESCRIPTION	IMAGE
11259	SKXE40	HIGHMAX MOGUL ADAPTER	
70836	SK200TL12050	TEMP LIGHT WIRE FIX 200W BULB, 120VAC HIGHMAX MOGUL BASE AND CORD	
70835	SK200TL27750	TEMP LIGHT WIRE FIX 200W BULB, 277VAC HIGHMAX MOGUL BASE AND CORD	
11230	SKFHBA	INNER REFLECTOR USE W/SKFHBP	
70039	SKFHBSA	HIGH BAY FIXTURE SPUN ALUMINUM E39 HOOK AND CORD	
11225	SKFHBP	HIGHMAX HIGHBAY FXT ACRYLIC E39 HOOK AND CORD	

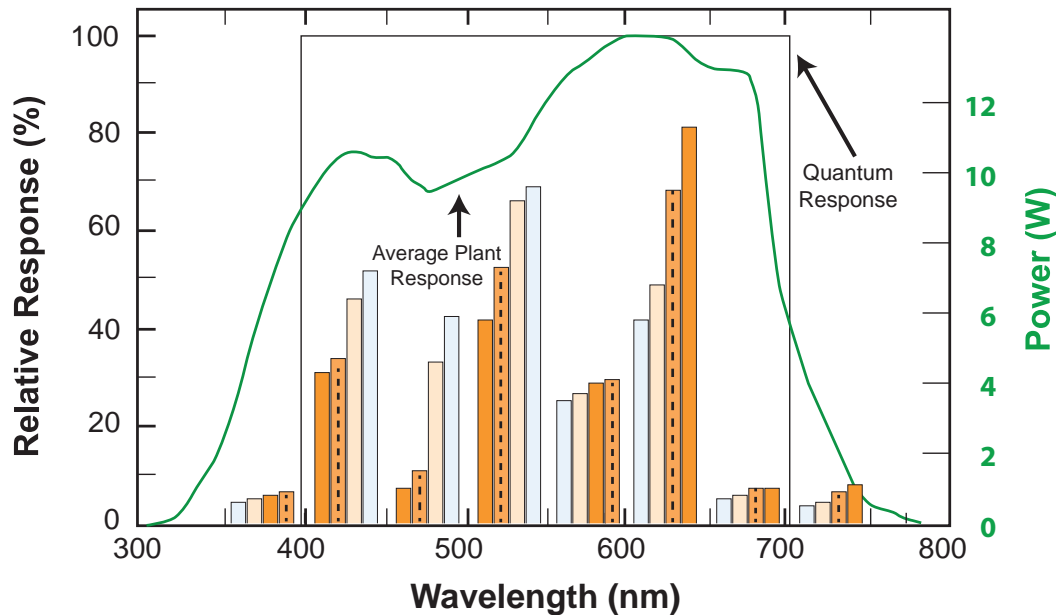
PHOTOSYNTHETIC RESPONSE CURVE¹



PHOTOSYNTHETICALLY ACTIVE RADIATION (PAR):

The HighMax Horticulture lamps concentrate their radiation at the ranges of light at which plants maximize photosynthetic activity:

- 2200K outperforms red emissions of more common 2700K
- 6500K outperforms blue emissions of more common 5000K
- Both 2200K and 6500K effectively convert electrical power to light used for plant growth



NOTES:

1. Cited graph reproduced from: McCree, K.J. 1972a. The action spectrum, absorptance and quantum yield of photosynthesis in crop plants. Agricultural and Forest Meteorology 9, 191-216.