



SL.250W.U46.DSP

SUNMASTER®
High Pressure Sodium Lamp
E40 Tubular

PRODUCT SPECIFICATION BULLETIN

Lamp Type	Sunmaster Grow Lamps
Product Number	10037
Control Gear	HPS Ballast + Ignitor / Electronic
Performance Data	
Initial Lumens (Lumens @ 100 hours)	33000
PAR Watts	85
Rated Life (Hrs. @10Hr. /Start)	24000+
Correlated Colour Temperature K	2000
Chromaticity (CIE - X,Y)	530 425
Colour Rendering Index (CRI)	25
Typical Warm Up Time (Minutes)	3 - 5
Typical Hot Restart Time (Minutes)	1
Burning Position	Universal

Physical Data / Requirements

Base Designation	E40
Bulb Designation	T46
Bulb Diameter (mm)	46
Max. Overall Length (mm)	260
Light Centre Length (mm)	158
Effective Arc Length (mm)	64
Max. Base Temperature (°C)	250
Max. Bulb Temperature (°C)	400
Luminaire Type	Open/Enclosed
Socket Pulse Rating (KV)	5

Electrical Data / Requirements

Lamp Wattage (W)	250
Operating Voltage (V)	100
Operating Current (Amps)	3.0
Min. Open Circuit Voltage (RMS)	198
Min.-Max. Starting Pulse (Peak V)	3800-4500
Min. Pulse Width @ 2700 Volts (µ sec)	1
Min. Pulse Rate Per ½ Cycle	1
Pulse Position (Min. % OCV Peak)	60-90 240-270

Revision:

Notes

The specification contains data about typical performance on 50Hz sine wave ballast at nominal power. Actual values may depend on ballast and applications.

Complies with (CE), Low Voltage (CE), WEEE and RoHS Directives.



SL.400W.U46.DSP

SUNMASTER®
High Pressure Sodium Lamp
E40 Tubular

PRODUCT SPECIFICATION BULLETIN

Lamp Type	Sunmaster Grow Lamps
Product Number	10035
Control Gear	HPS Ballast + Ignitor / Electronic
Performance Data	
Initial Lumens (Lumens @ 100 hours)	55000
PAR Watts	140
Rated Life (Hrs. @10Hr. /Start)	24000+
Correlated Colour Temperature K	2000
Chromaticity (CIE - X,Y)	530 425
Colour Rendering Index (CRI)	25
Typical Warm Up Time (Minutes)	3 - 5
Typical Hot Restart Time (Minutes)	1
Burning Position	Universal

Physical Data / Requirements

Base Designation	E40
Bulb Designation	T46
Bulb Diameter (mm)	46
Max. Overall Length (mm)	260
Light Centre Length (mm)	175
Effective Arc Length (mm)	110
Max. Base Temperature (°C)	250
Max. Bulb Temperature (°C)	400
Luminaire Type	Open/Enclosed
Socket Pulse Rating (KV)	5

Electrical Data / Requirements

Lamp Wattage (W)	400
Operating Voltage (V)	100
Operating Current (Amps)	4.5
Min. Open Circuit Voltage (RMS)	198
Min.-Max. Starting Pulse (Peak V)	3800-4500
Min. Pulse Width @ 2700 Volts (µ sec)	1
Min. Pulse Rate Per ½ Cycle	1
Pulse Position (Min. % OCV Peak)	60-90 240-270

Revision:

Notes

The specification contains data about typical performance on 50Hz sine wave ballast at nominal power. Actual values may depend on ballast and applications.

Complies with (CE), Low Voltage (CE), WEEE and RoHS Directives.

SL.600W.400V.DSP

SUNMASTER®
High Pressure Sodium Lamps

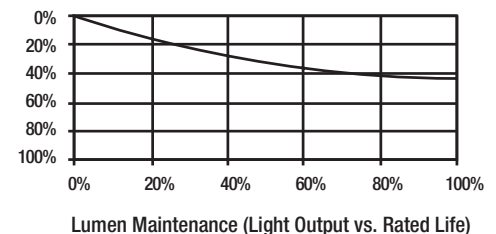
Lamp Type	Sunmaster Grow Lamps
Product Number	10039
Control Gear	HPS Ballast + Ignitor / Electronic

Performance Data

Rated Light Output (Lumens @ 100 hours)	88000
Lamp Lumens per Watt	143
Rated Life (Hrs. @10Hr. /Start)	28000
Correlated Colour Temperature (K)	2000
Chromaticity (CIE - X,Y)	530 425
Colour Rendering Index (CRI) or (Ra)	20
Typical Warm Up Time (Minutes)	5
Typical Hot Restart Time (Minutes)	5
Burning Position	Universal

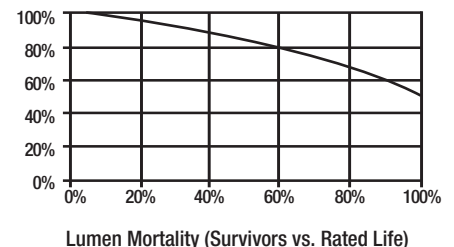
Physical Data

Base Designation	E40
Bulb Designation	T46
Bulb Diameter (mm)	46
Max. Overall Length (mm)	290
Light Centre Length (mm)	175
Effective Arc Length (mm)	125
Max. Base Temperature (°C)	210
Max. Bulb Temperature (°C)	400
Luminaire Type	Open/Enclosed
Socket Pulse Rating (KV)	5
Mercury Content (mg)	65



Lamp Electrical Data

Nominal Lamp Wattage (W)	600
Lamp Operating Voltage (V)	200
Lamp Operating Current (A)	3.6
Min. Open Circuit Voltage (RMS)	380
Min. Starting Pulse (Peak V)	3800-4500
Min. Pulse Width (Microseconds)	1 @2700V
Min. Pulse Rate Per ½ Cycle	1
Pulse Position (Electrical Degrees)	60-90 240-270



Revision: 19.01.2015

Notes

This lamp is only suitable on a high voltage electronic ballast



SL.1000W.U65.DSP

SUNMASTER®
High Pressure Sodium Lamp
E40 Tubular

PRODUCT SPECIFICATION BULLETIN

Lamp Type	Sunmaster Grow Lamps
Product Number	10038
Control Gear	HPS Ballast + Ignitor
Performance Data	
Initial Lumens (Lumens @ 100 hours)	130000
PAR Watts	311
Rated Life (Hrs. @10Hr. /Start)	24000
Correlated Colour Temperature K	2000
Chromaticity (CIE - X,Y)	530 425
Colour Rendering Index (CRI)	25
Typical Warm Up Time (Minutes)	4
Typical Hot Restart Time (Minutes)	1
Burning Position	Universal

Physical Data / Requirements

Base Designation	E40
Bulb Designation	-
Bulb Diameter (mm)	65
Max. Overall Length (mm)	372
Light Centre Length (mm)	240
Effective Arc Length (mm)	150
Max. Base Temperature (°C)	250
Max. Bulb Temperature (°C)	400
Luminaire Type	Open/Enclosed
Socket Pulse Rating (KV)	5

Electrical Data / Requirements

Lamp Wattage (W)	1000
Operating Voltage (V)	110
Operating Current (Amps)	10.3
Min. Open Circuit Voltage (RMS)	198
Min.-Max. Starting Pulse (Peak V)	3800-4500
Min. Pulse Width @ 2700 Volts (µ sec)	1
Min. Pulse Rate Per ½ Cycle	1
Pulse Position (Min. % OCV Peak)	60-90 240-270

Revision:

Notes

The specification contains data about typical performance on 50Hz sine wave ballast at nominal power. Actual values may depend on ballast and applications.

Complies with (CE), Low Voltage (CE), WEEE and RoHS Directives.