



# Product Specification Bulletin

400 Watt

WHITE-LUX®

Clear - 5K

E40 - Enclosed Luminaire  
Tubular T46 Outer Jacket



BASE UP ± 90°

HIT 400W/HBU/LU/5K		Product Number	21044
Lamp Type		SINGLE ENDED METAL HALIDE	
Control Gear		M59	
Performance Data			
Light Output (Lumens @ 100 Hrs.)		32000 BU / 28800 H	
Lamp Lumens Per Watt		80	
Rated Life (Hrs. @ 10 Hr. / Start)		15000 BU / 11250 H	
Correlated Colour Temperature K		5200	
Chromaticity (CIE -X, Y)		.340 .360	
Colour Rendering Index (CRI) or (Ra)		75	
Typical Warm Up Time (Minutes)		3-5	
Typical Hot Restart Time (Minutes)		10-15	
Burning Position		BASE UP ± 90°	
Physical Data / Requirements			
Base Designation		E40/45	
Bulb Designation		T46	
Bulb Diameter		46 mm	
Max. Overall Length		285 mm	
Light Centre Length		175 mm	
Effective Arc Length		35.4 mm	
Max. Base Temperature (°C)		250	
Max. Bulb Temperature (°C)		500	
Luminaire Type		ENCLOSED	
Socket Pulse Rating (KV)		4.5	
Electrical Data / Requirements			
IEC Standard		-	
Lamp Wattage		400	
Operating Voltage		110	
Operating Current (Amps)		4.2	
Min. Open Circuit Voltage (RMS)		198	
Min. - Max. Starting Pulse (Peak V)		2800-4500	
Min. Pulse Width at 2500V (microseconds)		1	
Min. Pulse Rate Per 1/2 Cycle		1	
Pulse Position (Electrical Degrees)		60-90, 240-270	
Revision:		23-Oct-00	2088 - 1

## Notes:

► Nominal color temperature rating is based on vertical (±15°) operation of the lamp. Off vertical positions will result in higher color temperature.

Lamps





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Numerical Data & Factors

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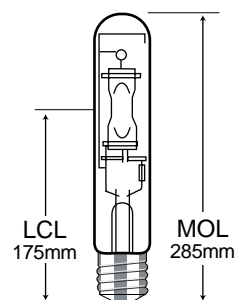
## Vertical Rated Life

15,000 hours at 10 hours or more per start

HOURS* OPERATED	% OF RATED LIFE	% INITIAL LUMENS	% SURVIVING LAMPS
0	0%	100%	100%
3000	20%	80%	97%
6000	40%	65%	90%
9000	60%	54%	80%
12000	80%	47%	68%
15000	100%	45%	50%

\* Figures shown for 10 hrs./start. For other cycles, multiply this column and also RATED LIFE by these factors:  
for 10 or more hrs./start, use 1.0; for 5 hrs./start, use 0.75; for 2.5hrs./start, use 0.55; for 1.3 hrs./start use 0.4

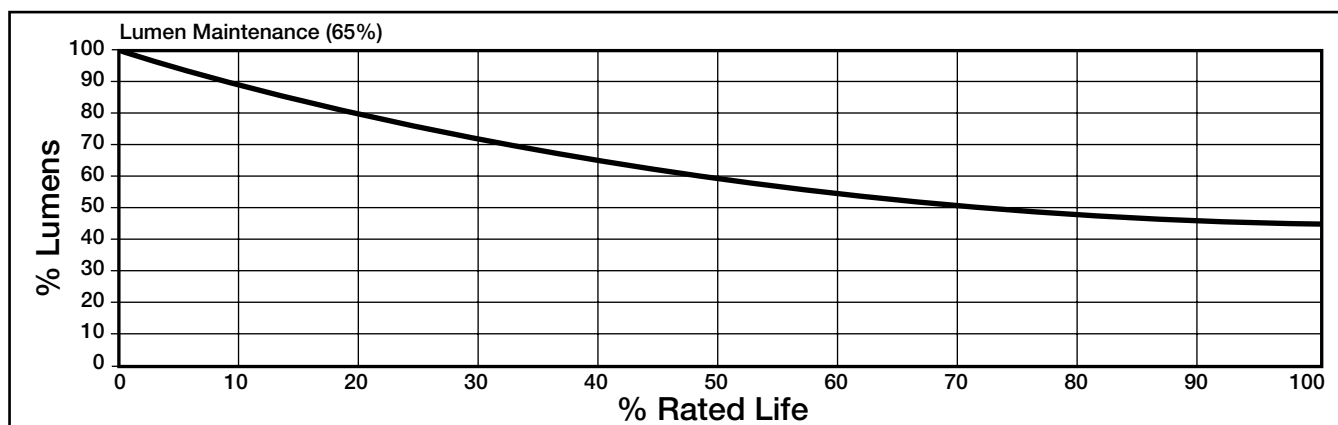
T46



Dia. = 46mm  
MOL = 285mm  
LCL = 175mm  
Base = E40

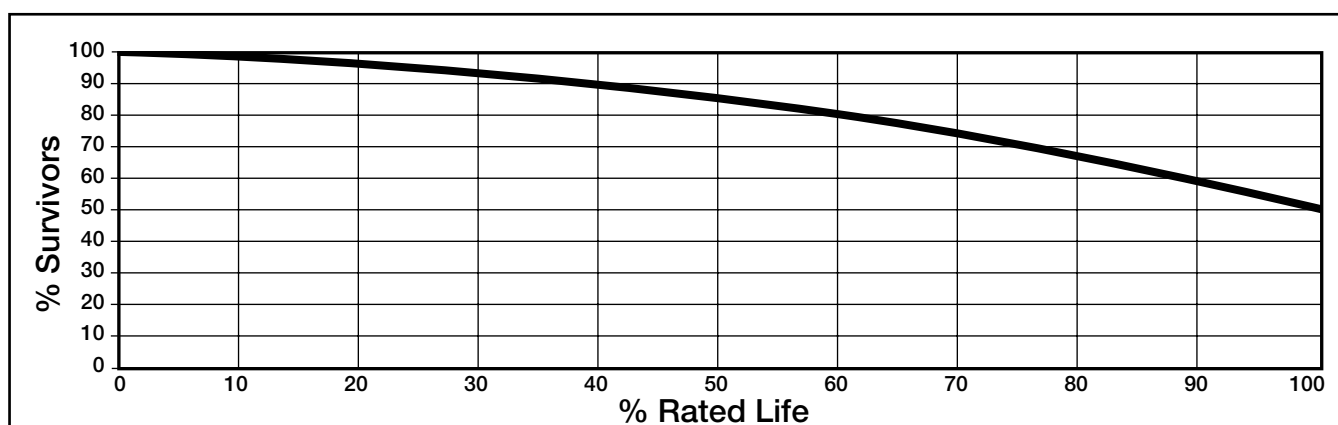
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## Lumen Maintenance



HIT 400W/HBU/LU/5K

## Lamp Mortality



Lamps

 **VENTURE**  
**LIGHTING**  
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