

USHIO

HPL+ COMPACT FILAMENT LAMPS

HPL+ SERIES
FOR ENTERTAINMENT LIGHTING



For ETC Fixtures: SOURCE FOUR™, SOURCE FOUR JR™, SOURCE FOUR PAR™

USHIO's high performance lamp HPL, has been redesigned to be the most powerful HPL ever. It's ultra-compact filament geometry now improves the optical efficiency of your ETC Source Four™ fixtures to produce up to 20% more fixture lumens. That's up to 20% more light from the same fixture as compared to the old lamp design.

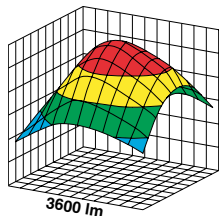
Previously, design of the HPL lamp was limited to larger filament dimensions than USHIO's HPL+ geometry. Working in close cooperation with ETC's engineers, Ushio has matched the "innovation" of the Source Four™ fixture by making a more compact (6.0mm x 9.5mm) filament profile. This improvement partnered with the optics of the Source Four™, generate ultimate axial and radial light distribution and optical system efficiency.

The Source Four's™ precise optics demand precisely engineered lamps. USHIO has responded to the Source Four's™ need for a reduced geometry filament, and has done so with quality manufacturing standards. Performance you can measure, quality you can count on, variety of lamp types, and innovative design for your theatrical needs.

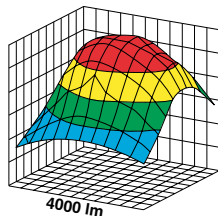
BENEFITS OF HPL+ LAMPS

- High efficiency (28.5 lumens per watt average)
- Increased fixture light output of up to 20%

Old HPL Design

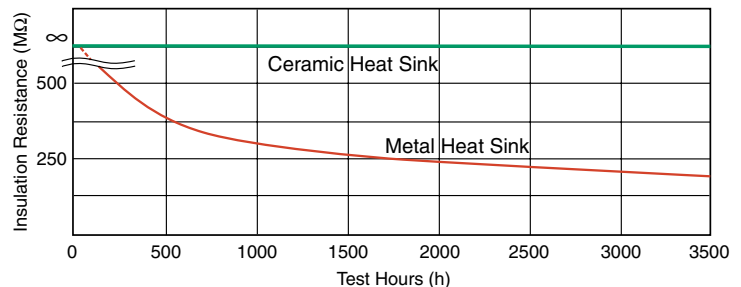


New USHIO HPL+



Illumination distribution measured with: HPL 750 watt

Insulation Resistance for Ceramic & Metal Bases



FEATURES

- New ceramic heat sink base maintains its resistance to electric conductivity over the life of the lamp
- Unique compact four & six filament design for more efficient light collection
- Standard and Long Life versions provide increased light output
- USHIO has the largest selection of voltages and wattages

Source Four™ PAR EA: rated up to 750W
Source Four™ PAR MCM: rated up to 575W
Source Four™ PARnel: rated up to 750W

Source Four™ jr
& Source Four™ jr Zoom
rated up to 575W

Source Four™
& Source Four™ Zoom
rated up to 750W

USHIO

CHARACTERISTICS & SPECIFICATIONS

APPLICATIONS

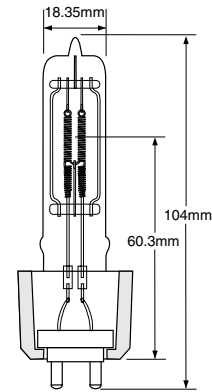
Voltage: 115V, 120V, 230V and 240V

- ETC Source Four™
rated up to 750W
- ETC Source Four™ jr & Source Four™ jr Zoom
rated up to 575W
- ETC Source Four™:
PAR EA— up to 750W
PAR MCM — up to 575W
PARnel — up to 750W

Low Voltage: 77V

- ETC Source Four™ fixture family
using ETC Dimmer Doubling

"Licensed under U.S. Patent #RE36316 claims 9-12 and 16-17 only; Canadian Patent #2,103,358; European Patent #592589 & #969496. No other licenses expressed or implied."



Watts (W)	Ushio Ordering Code	Ushio Lamp Code	Description	Filament Type	Color Temp (K)	Initial Lumens (lm)	Average Life (h)
77 Volt for Dimmer Doubling							
550	1000668	HPL-550/77V+	JS77V-550WC	4-C8	3250	16170	300
550	1000669	HPL-550/77X	JS77V-550WX	4-C8	3050	12160	2000
115 Volt							
375	1000666	HPL-375/115V+	JS115V-375WC	4-C8	3250	10540	300
375	1000667	HPL-375/115X+	JS115V-375WX	4-C8	3050	8000	1000
575	1000670	HPL-575/115V+	JS115V-575WC	4-C8	3250	16520	300
575	1000671	HPL-575/115X+	JS115V-575WX	4-C8	3050	12360	2000
750	1000675	HPL-750/115V+	JS115V-750WC	4-C8	3250	21900	300
750	1003153	HPL-750/115X+	JS115V-750WX	4-C8	3050	16400	1000
120 Volt							
575	1000672	HPL-575/120V+	JS120V-575WC	4-C8	3250	16520	300
575	1002283	HPL-575/120X+	JS120V-575WX	4-C8	3050	12360	2000
750	1003144	HPL-750/120V+	JS120V-750WC	4-C8	3250	21900	300
750	1003178	*HPL-750/120X+	JS120V-750WX	4-C8	3050	16400	2000
230 Volt							
375	1003182	HPL-375/230X+	JS230V-375WXN	6-C8	3000	7250	1000
575	1000673	HPL-575/230V+	JS230V-575WCN	6-C8	3200	14900	400
575	1002233	HPL-575/230X+	JS230V-575WXN	6-C8	3050	11780	1500
750	1002289	HPL-750/230V+	JS230V-750WCN	6-C8	3200	19750	300
750	1003179	HPL-750/230X+	JS230V-750WXN	6-C8	3050	15600	1500
240 Volt							
375	1003183	HPL-375/240X+	JS240V-375WXN	6-C8	3000	7250	1000
575	1000674	HPL-575/240V+	JS240V-575WCN	6-C8	3200	14900	400
575	1002234	HPL-575/240X+	JS240V-575WXN	6-C8	3050	11780	1500
750	1003184	HPL-750/240V+	JS240V-750WCN	6-C8	3200	19750	300
750	1003180	*HPL-750/240X+	JS240V-750WXN	6-C8	3050	15600	1500

*availability to be announced

Form No. S-HPL/R-0806: The specification on this sheet supercede all previously published specifications and may be subject to change for design and specification improvement without prior notice.