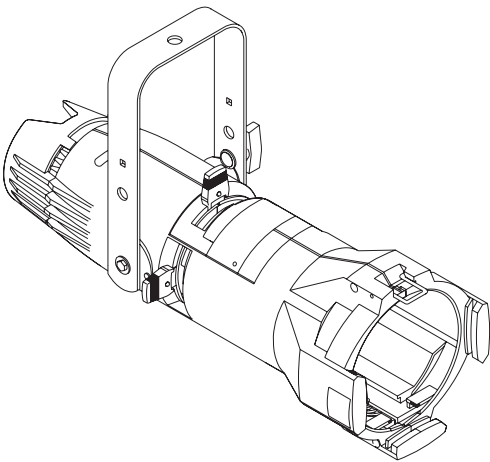




100V 115/120V 230/240V

Ellipsoidal Series



SPECIFICATIONS

PHYSICAL

- Rugged die cast aluminum construction
- 20 gauge stainless steel shutters in a bi-plane assembly
- High impact, thermally insulated knobs and shutter handles
- Two accessory slots, and a top mounted, gel frame retainer
- Steel yoke with two mounting positions
- Positive locking, hand-operated yoke clutch
- Slot for glass or stainless steel patterns
- Slot with sliding cover for motorized pattern devices or optional iris
- UL and cUL Listed

ELECTRICAL

- 115-240V, 50/60Hz
- High temperature 3-conductor 36" leads in a glass fiber outer sleeve
- Supports ETC Dimmer Doubling™ technology

LAMP

- 575W maximum
- HPL – compact tungsten filament contained in a krypton-filled quartz envelope (see table for suitable lamp types)
- Patented filament geometry provides extremely efficient light collection and transmission
- Integral die cast aluminum heat sink lamp base

SPECIFICATIONS

OPTICAL

- Optimized optical system for efficient photometric performance
- Two bi-convex lenses
- Faceted borosilicate reflector with dichroic cold mirror coating removes greater than 90% infrared radiation (heat) and reflects greater than 95% of visible light
- Reflector secured with anti-vibration shock mounts
- Tool free, positive locking X, Y and Z lamp centering adjustments, unaffected by relamping
- Beam edge continually adjustable hard-to-soft

ORDERING INFORMATION

Source Four jr Zoom

MODEL	DESCRIPTION
42550J	25°-50° Source Four jr Zoom ellipsoidal (black)
42550J-1	25°-50° Source Four jr Zoom ellipsoidal (white)

ETC Source Four jr Zooms are supplied with c-clamp, color frame, and 3' (96cm) leads as standard

Connector Designation

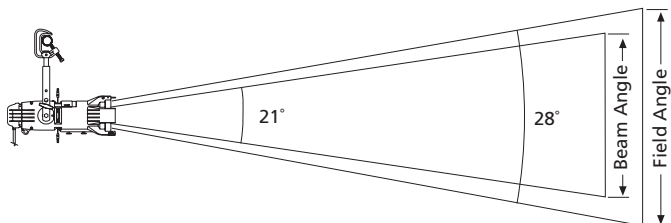
MODEL	DESCRIPTION
A	Parallel-blade U-ground connector
B	Two-pin and ground, 20 amp connector
C	Grounded, 20 amp, twistlock connector
M	Dimmer Doubling connector (NEMA L515P)

See back page for Source Four jr Accessories



PHOTOMETRICS

Photometric data below is measured with an HPL 575W/115V 300 hr lamp. To convert data when using any other HPL lamp, use the lumen or candela multiplying factors (Lm MF or Cd MF) for that specific lamp. These multiplying factors are listed in the Lamps table in this datasheet. For lumen data, multiply by the Lm MF. For candela or footcandle data, multiply by the Cd MF.



Throw Distance (d)	15' 4.6m	25' 7.6m	35' 10.7m	40' 12.2m
Field Diameter	7.5' 2.3m	12.4' 3.8m	17.4' 5.3m	19.9' 6.1m
Illuminance (fc)	343	123	63	48
Illuminance (lux)	3,688	1,328	677	519

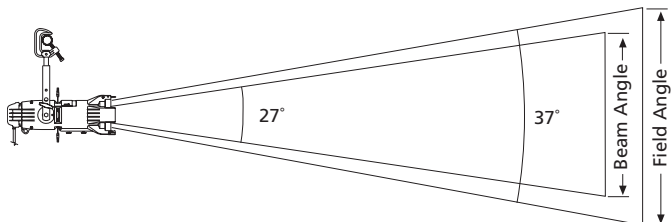
Source Four jr 25°-50° Zoom set at 25° (cosine)

Degree	Candela	Field Lumens	Beam Lumens	Efficiency	Lumens per watt
25°	77,085	7,895	5,715	47.8%	13.7

Metric Conversions: For Meters multiply feet by .3048
For Lux multiply footcandles by 10.76

For Field diameter at any distance, multiply distance by 0.50

For Beam diameter at any distance, multiply distance by 0.36



Throw Distance (d)	10' 3.0m	15' 4.6m	20' 6.1m	30' 9.1m
Field Diameter	6.6' 2.0m	9.9' 3.0m	13.2' 4.0m	19.8' 6.0m
Illuminance (fc)	480	213	120	53
Illuminance (lux)	5,168	2,297	1,292	574

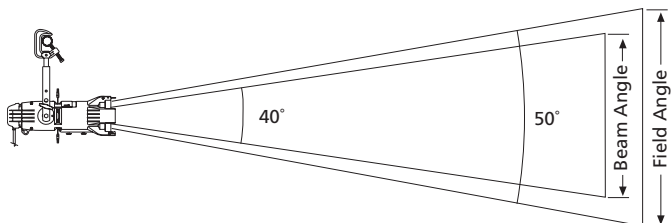
Source Four jr 25°-50° Zoom set at 36° (cosine)

Degree	Candela	Field Lumens	Beam Lumens	Efficiency	Lumens per watt
36°	48,010	8,240	5,535	49.9%	14.3

Metric Conversions: For Meters multiply feet by .3048
For Lux multiply footcandles by 10.76

For Field diameter at any distance, multiply distance by 0.66

For Beam diameter at any distance, multiply distance by 0.48



Throw Distance (d)	9' 2.7m	13' 4.0m	17' 5.2m	21' 6.4m
Field Diameter	8.4' 2.6m	12.1' 3.7m	15.9' 4.8m	19.6' 6.0m
Illuminance (fc)	265	127	74	49
Illuminance (lux)	2,857	1,369	801	525

Source Four jr 25°-50° Zoom set at 50° (cosine)

Degree	Candela	Field Lumens	Beam Lumens	Efficiency	Lumens per watt
50°	21,495	7,330	5,090	44.4%	12.8

Metric Conversions: For Meters multiply feet by .3048
For Lux multiply footcandles by 10.76

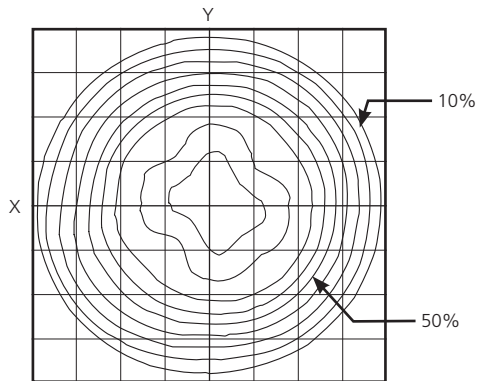
For Field diameter at any distance, multiply distance by 0.93

For Beam diameter at any distance, multiply distance by 0.72

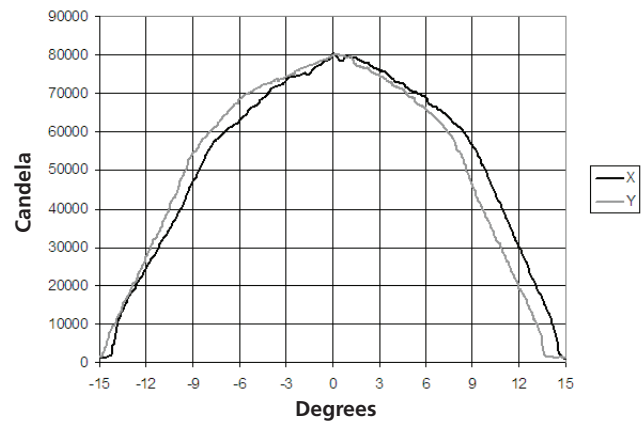
PHOTOMETRICS

Source Four jr 25°-50° Zoom set at 25°(cosine)

Iso-Illuminance Diagram

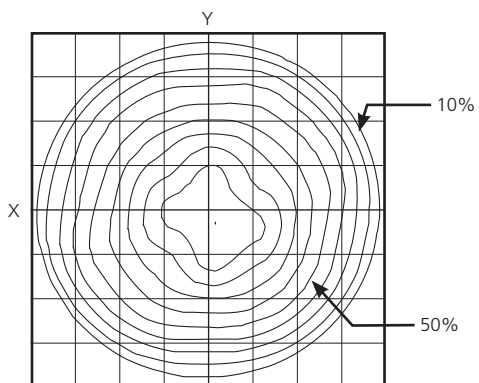


Cosine Candela Plot

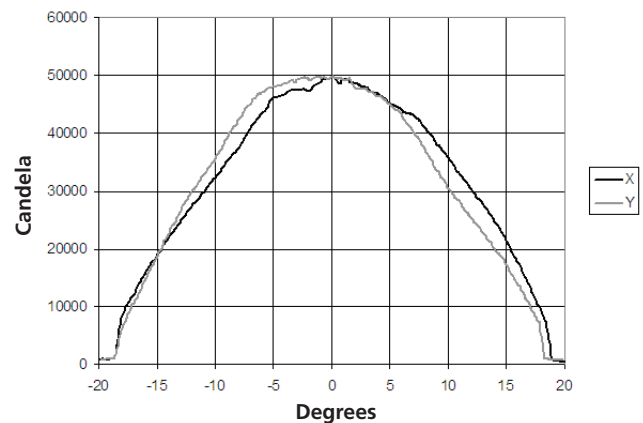


Source Four jr 25°-50° Zoom set at 36°(cosine)

Iso-Illuminance Diagram

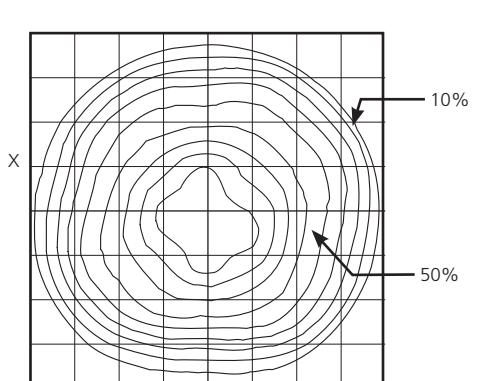


Cosine Candela Plot

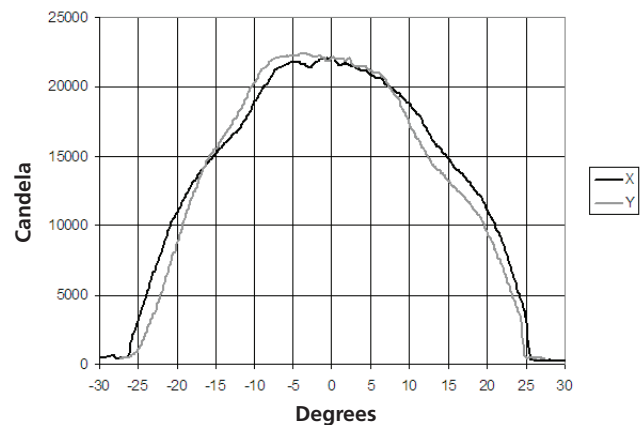


Source Four jr 25°-50° Zoom set at 50°(cosine)

Iso-Illuminance Diagram



Cosine Candela Plot



Complete IES photometry data files (LM-63-02 format) may be downloaded from the ETC website.

Go to <http://www.etcconnect.com/downloads.asp>

L A M P S

To determine Candela (Cd) or Lumens (Lm) for any other HPL lamp, multiply the Candela or Lumen value by the appropriate multiplying factor (CdMF or LmMF) shown for that lamp in the table below.

ETC Part #	Lamp Code	Watts	Volts	Initial Lumens	Color Temp. K	Average Rated Life	25° Cd MF	25° Lm MF	36° Cd MF	36° Lm MF	50° Cd MF	50° Lm MF
RT113	HPL 575/115**	575	115	16,520	3,250	300	1.00	1.00	1.00	1.00	1.00	1.00
RT114	HPL 575/115X	575	115	12,360	3,050	2,000	.64	.71	.64	.71	.64	.71
RT142	HPL 375/115	375	115	10,540	3,250	300	.84	.64	.84	.64	.84	.64
RT143	HPL 375/115X	375	115	8,500	3,050	1,000	.58	.48	.58	.48	.58	.48
RT115	HPL 575/120	575	120	16,520	3,250	300	1.00	1.00	1.00	1.00	1.00	1.00
RT171	HPL 575/120X	575	120	12,360	3,050	2,000	.64	.71	.64	.71	.64	.71
RT112	HPL 550/77*	550	77	16,170	3,250	300	1.02	.98	1.02	.98	1.02	.98
RT117	HPL 550/77X*	550	77	12,160	3,050	2,000	.66	.73	.66	.73	.66	.73
RT129	HPL 575/230**	575	230	14,900	3,200	400	.72	.78	.73	.73	.86	.79
RT138	HPL 575/230X	575	230	11,780	3,050	1,500	.47	.55	.48	.52	.56	.56
RT154	HPL 375/230X	375	230	7,800	3,050	1,000	.39	.40	.40	.38	.47	.41
RT130	HPL 575/240	575	240	14,900	3,200	400	.72	.78	.73	.73	.86	.79
RT139	HPL 575/240X	575	240	11,780	3,050	1,500	.44	.54	.45	.51	.52	.55
RT155	HPL 375/240X	375	240	7,800	3,050	1,000	.39	.40	.40	.38	.47	.41

Source Four jr Zoom is rated for 575W maximum.

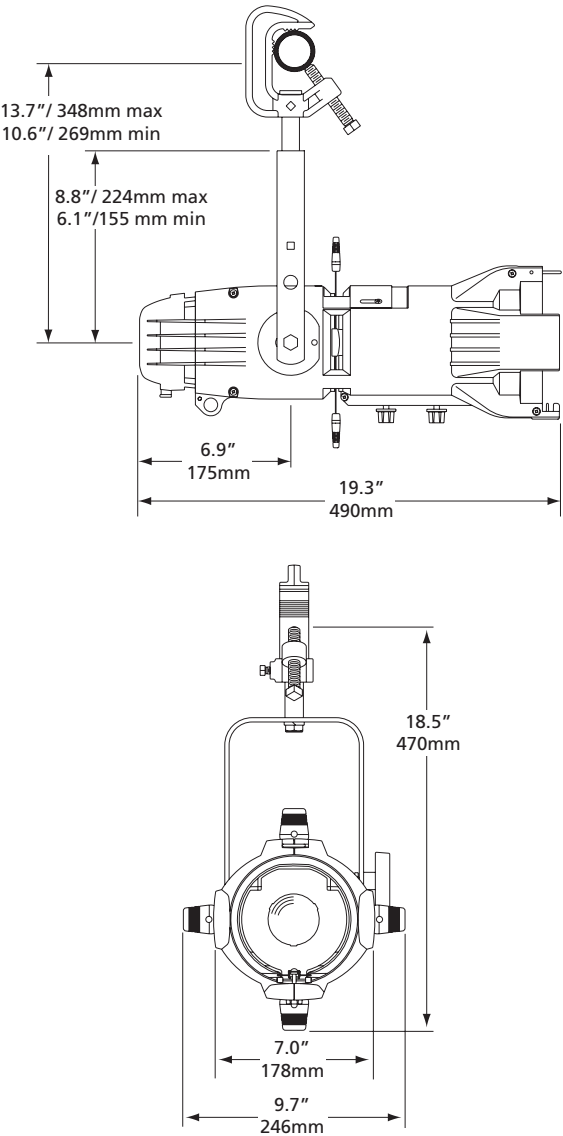
*77 Volt HPL lamps are for use with ETC Dimmer Doubling technology only.

**Photometric data was prepared using a production fixture and the Prometric CCD measurement system. Fixture adjusted for cosine distribution and tested with calibrated lamp at rated voltage. All data normalized to nominal lamp lumens in accordance with IES LM-73-04. Testing performed at ETC West, Hollywood, CA. All other multiplying factors extrapolated from primary test data.

For links to photometry file downloads (IES LM-63-02 format) go to www.etcconnect.com.

HPL Specified Tolerances: Watts +/- 5%, Lumens +/-7%, Average life +/-10%, Color Temperature +/- 50K

PHYSICAL



Source Four jr Zoom Weights*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
42550j	10	4.5	16.5	7.5

*Includes 2.3 lbs for C-clamp

ORDERING INFORMATION

Continued from front page...

Source Four jr Zoom Accessories

MODEL	DESCRIPTION
400JZK	Source Four jr Zoom upgrade kit*
400CC	C-clamp (included)
400SC	Safety Cable
400JRS	Drop-in Iris
400CF	Colorframe (6.25") (included)
400DN	Donut (6.25")
400TH	Top Hat
400HH	Half Hat
400GE	Gel Extender
400PH-M	Pattern holder (M size)

Note: For colors other than black and white, please call ETC.

* Replacement lenses for zoom. Also converts any Source Four jr to a Source Four jr Zoom

Source Four products are protected by one or more of the following patents:

U.S.	USRE36,3316, US5,345,371, US5,446,637, US5,544,029, US6,092,914 and US5,775,799
U.K.	GB0592589, GB0673488, 99930527.9*
Germany	DE0592589, GB0673488, 99930527.9*
Japan	JP2,501,772

* European patent application number



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