

**SPECIFICATIONS**

**Ellipsoidal lighting fixture**

- PHYSICAL** Die cast and extruded aluminium construction
- One-handed focus mechanism with positive lock (patents pending)
- Rotating shutter assembly  $\pm 25^\circ$
- 20 gauge stainless steel shutters in a tri-plane assembly
- Lens tube door provides easy access for lens cleaning
- Positive locking double-clutch yoke
- Scale markings for field angle and focus settings
- Integral die cast color frame holders with two accessory slots, and a top mounted, color frame retainer
- Insulated rear handle
- High impact, thermally insulated knobs and shutter handles
- Steel yoke with two mounting positions
- 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** 750W Maximum
- HPL - compact tungsten filament contained in a krypton/xenon filled quartz envelope (see table for suitable lamp types)
- Integral die cast aluminium heat sink lamp base
- OPTICAL** The 25°-50° uses a plano-convex front lens with a bi-convex rear lens
- Faceted borosilicate reflector with multi-layer dichroic coating
- 95% of visible light reflected through the optical train
- 90% of infrared radiation (heat) passes through the reflector
- Reflector secured with anti-vibration shock mounts
- Low gate and beam temperature, shutters will not warp or distort
- Tool free lamp centering (X/Y) and peak/flat (Z) adjustment knobs
- Positive locking X, Y and Z adjustments, unaffected by relamping
- Lenses have anti-reflective coatings
- Lenses secured with anti-vibration shock mounts
- 15°-30° version is available

**ORDERING INFORMATION**

**Source Four Zoom**

Model#	Description
42550	25°-50° Source Four Zoom ellipsoidal (black)

ETC Source Four Zooms are supplied with color frame, C-clamp and 36" (90cm) leads as standard

**Connector Designation**

Use Suffixes below to specify Factory-Fitted Connector type

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)

**Source Four Zoom Accessories**

Model#	Description
407CF	Color Frame (included)
400CC	C-clamp (included)
400SC	Safety Cable
400PH-A	Pattern holder (A size)
400PH-B	Pattern holder (B size)
400PH-G	Glass pattern holder
400BY	Balanced yoke assembly kit
400RS	Drop-in Iris
400PTH3	Top Hat (3" tube)
400PTH6	Top Hat (6" tube)
400PHH	Half Hat
400PGE3	Gel Extender (3" tube)
400PGE6	Gel Extender (6" tube)

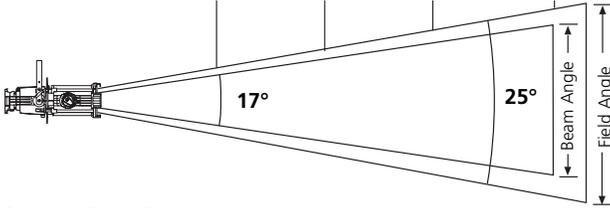
**Note:** Available in black only



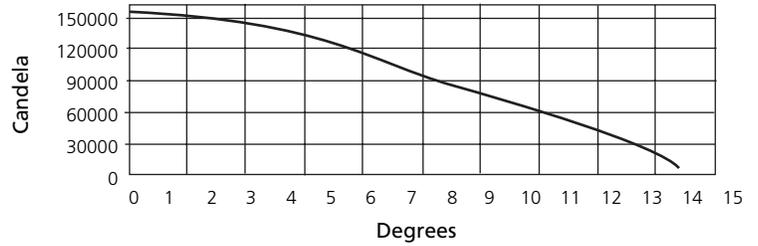
## PHOTOMETRIC DATA

### 25°

Distance (ft)	25	35	45	55
Field Diameter (ft)	11.1	15.5	20.0	24.4
Illumination (fc)	248	127	77	51



**Candlepower Distribution Curve (cosine)**



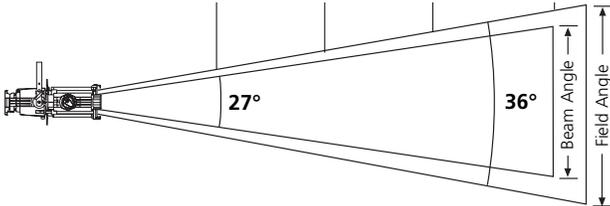
### Source Four Zoom

Degree	Candlepower	Field Lumens	Efficacy	Efficiency
25°	155,000	13,100	17.5 LPW	59.8%

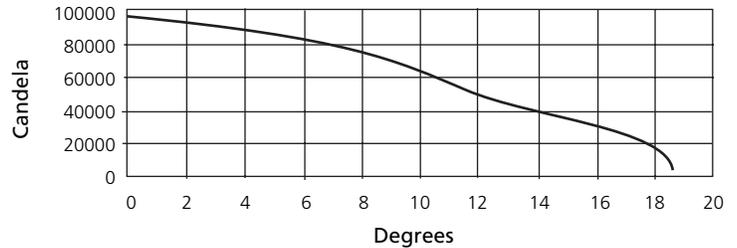
For Field diameter at any distance, multiply distance by .44  
For Beam diameter at any distance, multiply distance by .30

### 36°

Distance (ft)	30	35	40	45
Field Diameter (ft)	19.5	22.8	26.0	29.3
Illumination (fc)	107	79	60	48



**Candlepower Distribution Curve (cosine)**



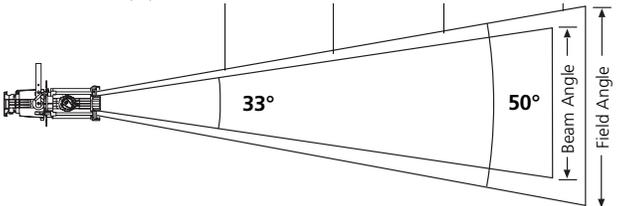
### Source Four Zoom

Degree	Candlepower	Field Lumens	Efficacy	Efficiency
36°	96,300	13,500	18.0 LPW	61.6%

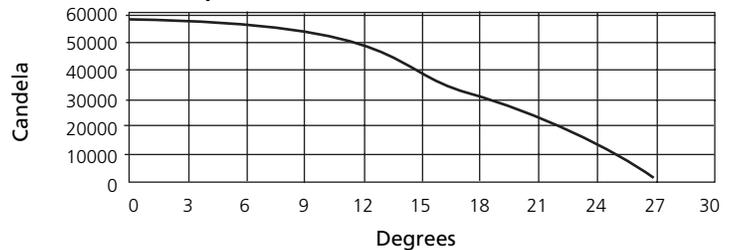
For Field diameter at any distance, multiply distance by .65  
For Beam diameter at any distance, multiply distance by .48

### 50°

Distance (ft)	20	25	30	35
Field Diameter (ft)	18.6	23.2	27.9	32.6
Illumination (fc)	149	95	66	49



**Candlepower Distribution Curve (cosine)**



### Source Four Zoom

Degree	Candlepower	Field Lumens	Efficacy	Efficiency
50°	59,500	14,200	18.9 LPW	64.8%

For Field diameter at any distance, multiply distance by .93  
For Beam diameter at any distance, multiply distance by .59

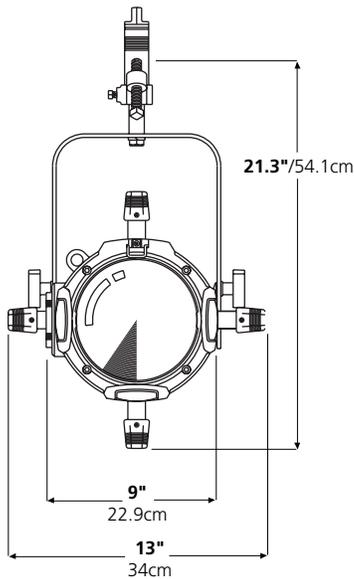
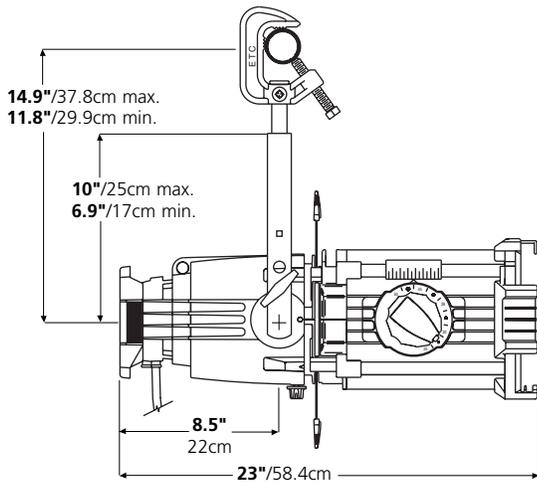
**Metric Conversions:** For Meters multiply feet by .3048  
For Lux multiply footcandles by 10.76

All photometric data in this document was prepared using standard production fixtures, and the Prometric™ CCD measurement system. Fixtures were adjusted for a flat field and were tested with a calibrated HPL 750/115V 21,900 lumen lamp at its rated voltage. All data normalized to nominal lamp lumens.

To determine illumination in footcandles or lux at any throwdistance, divide candlepower by distance squared.

For illumination with any lamp, multiply the candlepower of a beam spread by the multiplying factor (mf) shown for that lamp.

### PHYSICAL



### Source Four Zoom Weights

Model	Fixture Weight*		Shipping Weight	
	lbs	kgs	lbs	kgs
25/50°	17	7.6	25	12.7

\* Add 2.3 lbs for C-clamp

### LAMPS

Lamp code	Watts	Volts	Initial Lumens	Color Temp.	Average Rated Life	MF
HPL 750/115	750	115	21,900	3,250°	300	1.00
HPL 575/115	575	115	16,520	3,250°	300	0.87
HPL 575/115X	575	115	12,360	3,050°	2000	0.66
HPL 575/120	575	120	16,460	3,250°	300	0.87
HPL 375/115	375	115	10,540	3,200°	300	0.55
HPL 375/115X	375	115	8,060	3,000°	1000	0.43
HPL 550/77*	550	77	16,170	3,250°	300	0.87
HPL 550/77X*	550	77	12,160	3,050°	2000	0.66
HPL 750/230	750	230	19,400	3,200°	300	0.90
HPL 750/240	750	240	19,400	3,200°	300	0.90
HPL 575/230	575	230	14,900	3,200°	400	0.76
HPL 575/240	575	240	14,900	3,200°	400	0.76
HPL 575/230X	575	230	11,780	3,050°	1500	0.61
HPL 575/240X	575	240	11,780	3,050°	1500	0.64
HPL 375/230X	375	230	7,800	3,050°	1000	0.38
HPL 375/240X	375	240	7,800	3,050°	1000	0.38

\*77V lamps are intended for use with the ETC Dimmer Doubler™.

**Warning:** Use of lamps other than HPL will void UL/cUL safety approval and product warranty. Source Four Zoom is rated for 750W maximum.

# Source Four® Zoom 25°-50°

42550 Series



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Source Four® products protected by U.S. Patent Numbers 5,268,613, 5,345,371, 5,544,029, 5,446,637 and 5,775,799; Japanese Patent Number 2,501,772; US and International Patents Pending.