

# 714SX2

700SX2 - 2000/2500 W TUNGSTEN



- **Type:** Profile spot
- **Source:** 2000/2500 W Tungsten
- **Optics:** 15° to 40° zoom

Profile spot

## The ideal zoom profile for all medium throw applications

Combining power with a smooth flat beam, this medium throw fixture is a favourite for TV studios, talk shows and news reports, and perfect for medium to large theatres and opera houses. Its secure G22 lamp socket ensures reliability, longer lamp life, and 2000 W or 2500 W lamp options.

### Features

- **Multi-function double gate:** simultaneous use of gobos and iris. Sharp focus of both gobo and shutter
- **Shutter gate:** up to 8 shutters. Remove shutters for easy maintenance or tuck fully inside gate for secure transport
- **User-friendly shutter-lock system:** secures shutters' setting in any circumstances (locking efficient up to 4 shutters)
- **Universal gobo holder:** a-size glass and metal gobo
- **Lens tube lock feature:** secures rotating lens tube against unwanted movement
- **90° rotating lens tube / gate / front accessories holder:** rotation of the projected image is always possible while the lamp remains vertical – no need to move the yoke
- **Internal glass filter holder:** long term use of durable coloured, dichroic or textured glass
- **Easy focus reference:** graduated scale on side of lantern; fast and easy refocusing
- **Tilt reference on hanging yoke:** index for rapid re-positioning

### Optical

- **Factory set optical train:** no re-alignment even after lamp change
- **SX optical system:** double condenser optics for exceptional optical quality
- **Variable zoom optics:** sharp focus at every beam angle. Independent control of image size and focus. Focus handles on both sides

### Construction

- **Made in France :** fully manufactured in Robert Juliat premises retaining complete control over all aspects of quality
- **G22 socket locking system exclusive to Robert Juliat:** holds the lamp securely in place to ensure there is no arcing, even when the fixture is pointing vertically downward
- **Silent-running cooling fans:** ideal for TV studios and opera houses
- **Bodywork:** strong sheet metal construction for durability
- **Moving parts:** smooth at all times, even when hot
- **Captive knobs and handles:** additional security when working at height or in transit
- **Easy access to all parts:** easy cleaning, re-lamping and maintenance
- **Removable assemblies:** fast-plug cable connectors and complete component assemblies (mirror, condenser set and lamp house assembly) save maintenance and cleaning time
- **Spare parts and accessories:** uniform across the tungsten, discharge or LED range, reducing running costs

Picture: 714SX2

DSEN074\_714SX2 - 16/06/2017

Robert Juliat reserves the right to change or alter any of the items detailed on this page, to increase or improve manufacturing techniques without prior notice.

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ROBERT JULIAT

## Source



- **Lamp type:** Tungsten
- **Socket:** G22

Admissible lamps	Power *	Lumen output*	Colour temperature*	Life*
LIF: CP92	2 000 W	52 000 lm	3200K	400 h
LIF: CP91	2 500 W	65 000 lm	3200K	400 h

(\*) manufacturer's data

## Optics

### Characteristics

- **Type:** Zoom
- **Beam range:** 15° to 40°
- **Focal length:** 110 - 304 mm

### Gel filter

- **Shape:** Square
- **Standard size:** 215x215 mm (8.5x8.5 in)

### Gobo

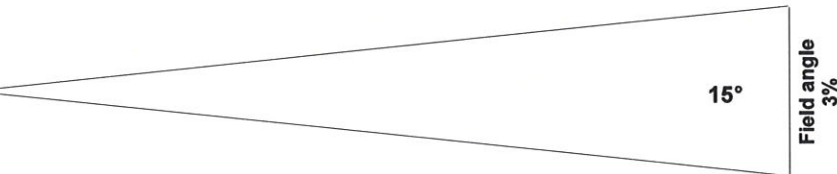
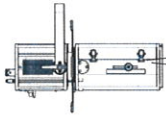
- **Size:** A
- **Material:** Metal Glass



## Photometrics

with LIF: CP91 source

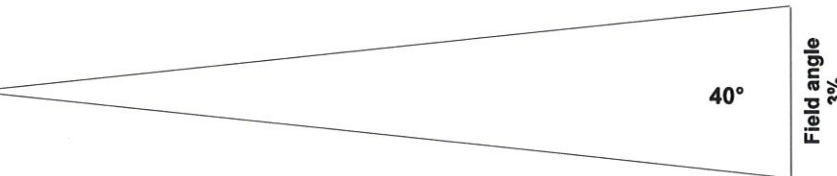
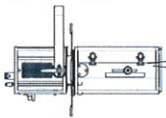
### • Optics @ 15°



**Beam intensity**  
490 000 cd

<b>Distance</b>	5 m	10 m	15 m	20 m	25 m	30 m
<b>Diameter</b>	1.3 m	2.6 m	3.9 m	5.3 m	6.6 m	7.9 m
<b>Illumination</b>	20 000 lux	4 950 lux	2 200 lux	1 250 lux	790 lux	550 lux
<b>Distance</b>	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
<b>Diameter</b>	3.9 ft	9.2 ft	13.2 ft	17.1 ft	21.1 ft	26.3 ft
<b>Illumination</b>	2 200 fc	410 fc	200 fc	120 fc	80 fc	50 fc

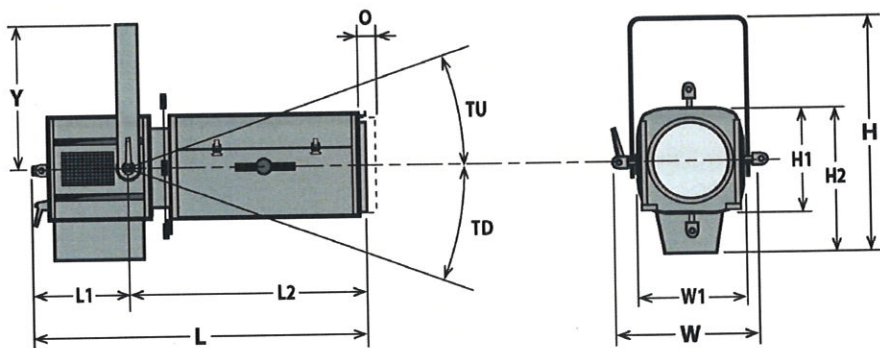
### • Optics @ 40°



**Beam intensity**  
82 000 cd

<b>Distance</b>	5 m	10 m	15 m	20 m	25 m	30 m
<b>Diameter</b>	3.6 m	7.3 m	10.9 m	14.6 m	18.2 m	21.8 m
<b>Illumination</b>	3 300 lux	830 lux	370 lux	210 lux	140 lux	95 lux
<b>Distance</b>	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
<b>Diameter</b>	10.9 ft	25.5 ft	36.4 ft	47.3 ft	58.2 ft	72.8 ft
<b>Illumination</b>	370 fc	70 fc	33 fc	20 fc	13 fc	9 fc

## Dimensions and weight



**Weight:** 20 kg (44 lbs)

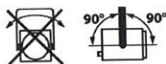
Height	Length	Width	Yoke	Tilt	Option
H= 525 mm (20.7 in)	L= 740 mm (29.1 in)	W= 380 mm (15 in)	Y= 325 mm (12.8 in)	TU= TBD°	O= 25 mm (1 in)
H1= 250 mm (9.8 in)	L1= 265 mm (10.4 in)	W1= 250 mm (9.8 in)		TD= TBD°	
H2= 330 mm (13 in)	L2= TBD mm (0 in)				

## Shipping

- **Weight :** 23.2 kg (51 lbs)
- **Volume :** .13 m<sup>3</sup> (4.59 ft<sup>3</sup>)

## Installation

- **Minimum distance to illuminated surface:** 2.1 m ( 6.9 ft )
- **Operating position:**



## Warranty

- **Period: 2 years**  
See General Sales Condition on website

## Approvals



## Construction

- **Housing:** Steel sheet - Aluminium
- **Colour:** Black
- **Cooling:** Low noise fan
- **Maximum ambient temperature (Ta):** 40°C (104°F)
- **Maximum case temperature (Tc):** 270°C (518°F)
- **Total heat dissipation:** 6 826 BTU/h
- **Protection rating:** 20

## Electrical compatibility

- 230/240 V - 50 Hz
- ~~445/420 V - 60 Hz~~

## Power input



- **Type:** attached power cord
- **Cable:** H07RNF 3G1.5
- **Length:** 3 m (9,8 ft)
- **Power connector:** CEE 7/7 (2P+E NF/Schuko)




## Power consumption

Voltage	Frequency	Current	Power
230 V	50 Hz	9 A	2000 W
230 V	50 Hz	11 A	2500 W













## Model

<b>714SX2</b>	2000/2500 W Tungsten Profile spot - G22 socket - 714SX2 - 15/40°
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## Options

<b>LT-Profile</b>	Licht-Technik motorisation controlled by DMX: Pan, tilt, zoom, focus, 4 shutters, colour changer	
<b>CAV700</b>	Double slot front cassette for 215x215mm accessories	
<b>CAV700J</b>	Double slot front cassette for 245x245mm accessories	
<b>PCP1716A</b>	16A blue 2P+E 6h IEC60309 power connector	

## Accessories

<b>D8</b>	Shutter for SX series <b>4 included</b>	
<b>PF1000M2</b>	215x215mm metal filter holder <b>1 included</b>	
<b>SGUX</b>	Universal "A" size gobo-holder (metal, glass, frosted glass) <b>1 included</b>	
<b>CP91</b>	CP91 - G22 2500W 230V 400h 3200K lamp	
<b>CP92</b>	CP92 - G22 2000W 230V 400h 3200K lamp	
<b>IWSX755</b>	Drop-in iris (monoplane) with holder - Weight: ,26 Kg	
<b>G1000</b>	215x215mm safety grid	
<b>CAV700A</b>	Double slot front cassette for 215x215mm accessories - Weight: ,52 Kg	
<b>CAV700AJ</b>	Double slot front cassette for 245x245mm accessories - Weight: ,95 Kg	
<b>RV934</b>	Front extension cassette for 215x215mm accessories with fan - Weight: 2 Kg	
<b>VD120</b>	120x120mm frosted glass	
<b>FCD700</b>	Angled yoke - Weight: 1,62 Kg	

876

Hook clamp 40x10mm with 28mm M10 screw for Ø35 to 50mm pipes - SWL: 50Kg - Weight: 1,25 Kg



880

Hook clamp 40x10mm with 28mm M10 screw for Ø50 to 63mm pipes - SWL: 50Kg - Weight: 1,36 Kg



CS2

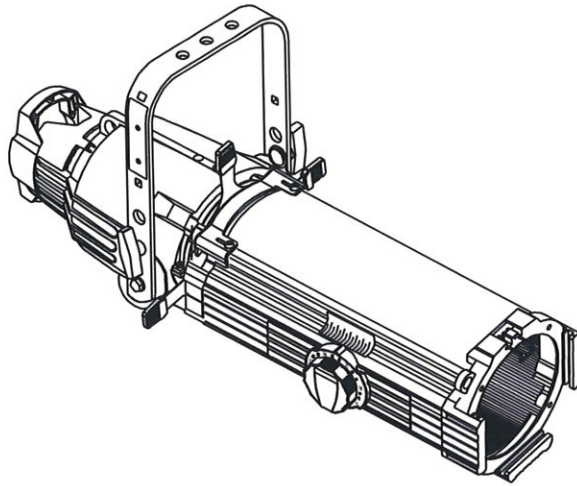
Safety cable Ø3 mm L= 600mm - SWL: 75 Kg







100V 115/120V 230/240V



SPECIFICATIONS

PHYSICAL

- Rugged, die-cast and extruded aluminum construction
- Patented one-handed focus mechanism with positive lock
- Rotating shutter assembly ±25°
- 20-gauge stainless steel shutters in a tri-plane assembly
- Lens-tube door provides easy access for lens cleaning
- Scale markings for field-angle and focus settings
- Thermally insulated rear handle
- High-impact, thermally insulated knobs and shutter handles
- Integral die-cast color-frame holder with two accessory slots, and a top mounted, color-frame retainer
- Steel yoke with two mounting positions
- Positive locking double-clutch yoke
- Slot for glass or stainless steel patterns
- Wide accessory slot with sliding cover for motorized pattern devices or optional iris
- UL and cUL Listed

ELECTRICAL

- 115-240V, 50/60Hz
- High temperature three-conductor 36-inch 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)
- Patented filament geometry makes for extremely efficient light collection and transmission
- Integral die-cast aluminium heat-sink lamp base

SPECIFICATIONS

OPTICAL

- Re-optimized optical system for improved photometric performance and field uniformity
- 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
- Lenses have anti-reflective coatings
- Lenses secured with anti-vibration shock mounts
- Low gate- and beam-temperature; shutters will not warp or distort
- Tool-free, positive locking X, Y and Z lamp-centering adjustments, unaffected by relamping
- 25°-50° version available

ORDERING INFORMATION

Source Four Zoom

MODEL	DESCRIPTION
41530	15°-30° Source Four Zoom ellipsoidal (black)

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

Connector Designation

Use suffixes below to specify factory-fitted connector type.

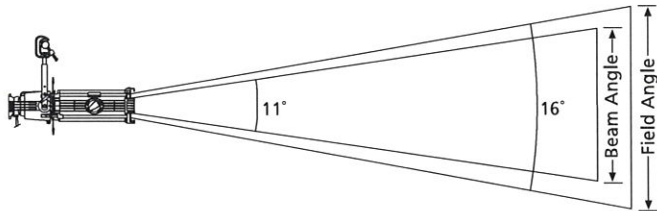
MODEL	DESCRIPTION
A	Parallel-blade U-ground connector
B	Two-pin and ground, 20 amp connector
C	Grounded, 20 amp, twistlock connector
M	Dimmer Doubling connector (NEMA L515P)

See page 5 for Source Four® accessories



PHOTOMETRICS

Photometric data below is measured with an HPL 750W/115V 300-hour 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.



<b>Throw Distance (d)</b>	30'	50'	70'	90'
	9.1m	15.2m	21.3m	27.4m
<b>Field Diameter</b>	8.4'	14.1'	19.7'	25.3'
	2.6m	4.3m	6.0m	7.7m
<b>Illuminance (fc)</b>	440	158	81	49
<b>Illuminance (lux)</b>	4,731	1,703	869	526

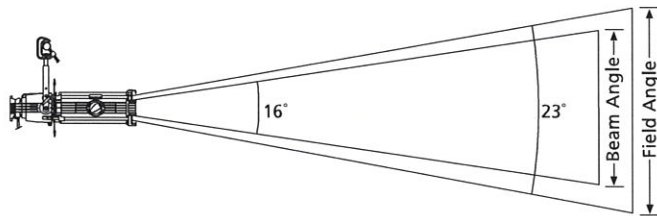
Source Four 15°-30° Zoom set at 15° (cosine)

Degree	Candela	Field Lumens	Beam Lumens	Efficiency	Lumens per watt
15°	395,560	11,460	7,685	52.3%	15.3

Metric conversions: For meters, multiply feet by 0.3048  
For lux, multiply footcandles by 10.76

For field diameter at any distance, multiply distance by 0.28

For beam diameter at any distance, multiply distance by 0.19



<b>Throw Distance (d)</b>	20'	30'	45'	60'
	6.1m	9.1m	13.7m	18.3m
<b>Field Diameter</b>	8.2'	12.3'	18.4'	24.5'
	2.5m	3.7m	5.6m	7.5m
<b>Illuminance (fc)</b>	454	202	90	50
<b>Illuminance (lux)</b>	4,887	2,173	966	543

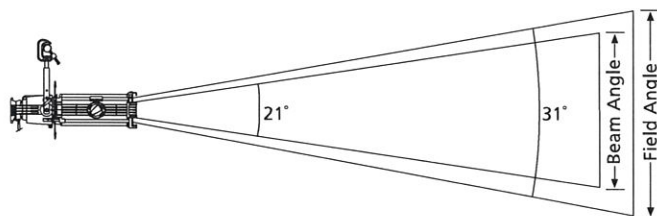
Source Four 15°-30° Zoom set at 23° (cosine)

Degree	Candela	Field Lumens	Beam Lumens	Efficiency	Lumens per watt
23°	181,685	12,315	7,855	56.2%	16.4

Metric conversions: For meters, multiply feet by 0.3048  
For lux, multiply footcandles by 10.76

For field diameter at any distance, multiply distance by 0.41

For beam diameter at any distance, multiply distance by 0.29



<b>Throw Distance (d)</b>	15'	25'	35'	45'
	4.6m	7.6m	10.7m	13.7m
<b>Field Diameter</b>	8.4'	14.0'	19.6'	25.2'
	2.6m	4.3m	6.0m	7.7m
<b>Illuminance (fc)</b>	470	169	86	52
<b>Illuminance (lux)</b>	5,056	1,820	929	562

Source Four 15°-30° Zoom set at 30° (cosine)

Degree	Candela	Field Lumens	Beam Lumens	Efficiency	Lumens per watt
30°	105,690	11,960	7,075	54.6%	15.9

Metric conversions: For meters, multiply feet by 0.3048  
For lux, multiply footcandles by 10.76

For field, diameter at any distance, multiply distance by 0.56

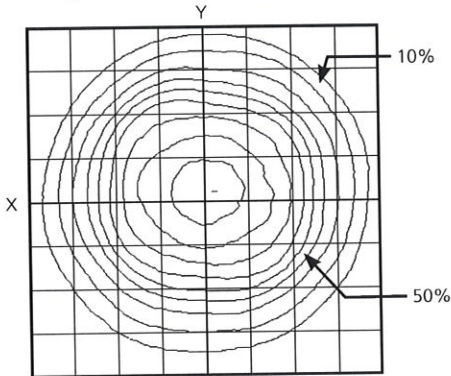
For beam, diameter at any distance, multiply distance by 0.37



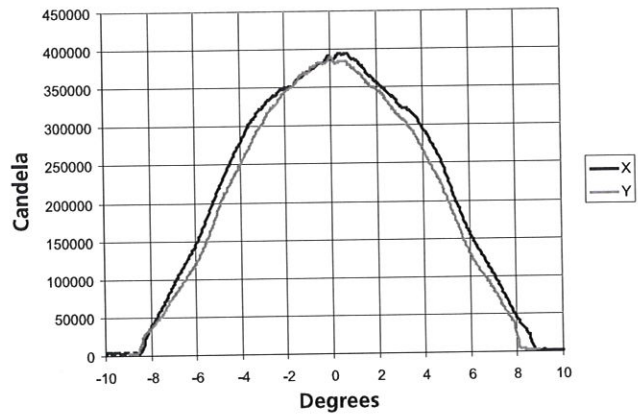
PHOTOMETRICS

Source Four 15°-30° Zoom set at 15° (cosine)

Iso-Illuminance Diagram  
(Flat Surface Distribution)

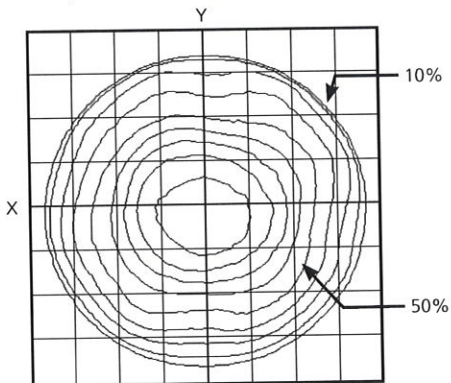


Cosine Candela Plot

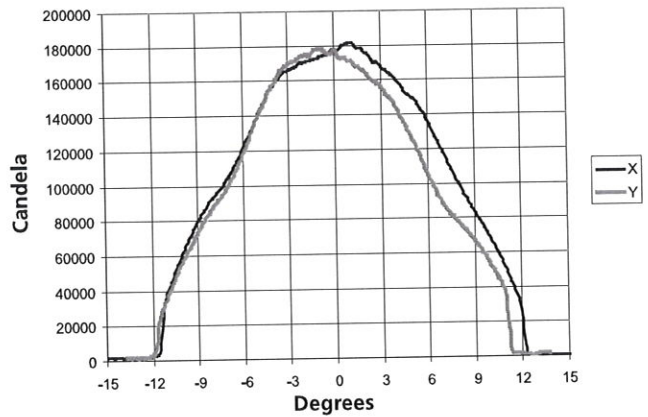


Source Four 15°-30° Zoom set at 23° (cosine)

Iso-Illuminance Diagram  
(Flat Surface Distribution)

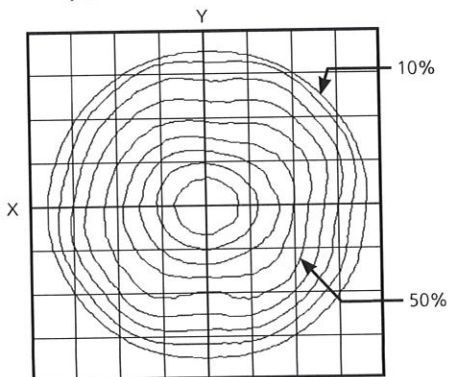


Cosine Candela Plot

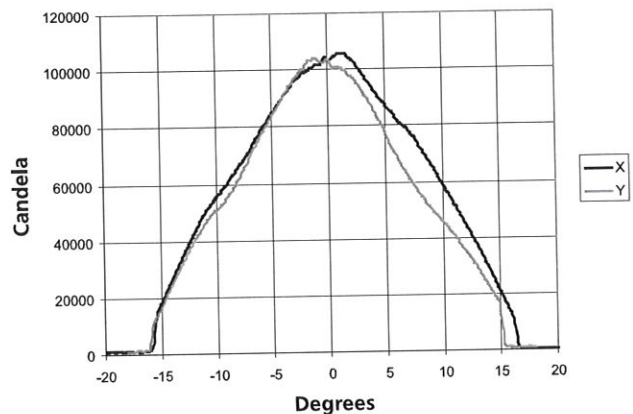


Source Four 15°-30° Zoom set at 30° (cosine)

Iso-Illuminance Diagram  
(Flat Surface Distribution)



Cosine Candela Plot



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

Go to <http://www.etconnect.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	15° Cd MF	15° Lm MF	23° Cd MF	23° Lm MF	30° Cd MF	30° Lm MF
RT116	HPL 750/115**	750	115	21,900	3,250	300	1.00	1.00	1.00	1.00	1.00	1.00
RT196	HPL 750/115X	750	115	16,400	3,050	1,500	0.64	0.74	0.64	0.74	0.64	0.74
RT113	HPL 575/115**	575	115	16,520	3,250	300	0.85	0.78	0.78	0.81	0.79	0.77
RT114	HPL 575/115X	575	115	12,360	3,050	2,000	0.56	0.56	0.56	0.56	0.56	0.56
RT142	HPL 375/115	375	115	10,540	3,250	300	0.71	0.50	0.66	0.52	0.66	0.49
RT143	HPL 375/115X	375	115	8,500	3,050	1,000	0.49	0.38	0.45	0.39	0.46	0.37
N/A	HPL 750/120	750	120	21,900	3,250	300	1.00	1.00	1.00	1.00	1.00	1.00
N/A	HPL 750/120X	750	120	16,400	3,050	1,500	0.64	0.74	0.64	0.74	0.64	0.74
RT115	HPL 575/120	575	120	16,520	3,250	300	0.85	0.78	0.78	0.81	0.79	0.77
RT171	HPL 575/120X	575	120	12,360	3,050	2,000	0.56	0.56	0.56	0.56	0.56	0.56
RT112	HPL 550/77*	550	77	16,170	3,250	300	0.87	0.76	0.80	0.80	0.81	0.76
RT117	HPL 550/77X*	550	77	12,160	3,050	2,000	0.59	0.56	0.59	0.56	0.59	0.56
RT160	HPL 750/230**	750	230	19,750	3,200	300	0.86	0.78	0.73	0.80	0.76	0.80
N/A	HPL 750/230X	750	230	15,600	3,050	1,500	0.54	0.62	0.45	0.63	0.47	0.63
RT129	HPL 575/230**	575	230	14,900	3,200	400	0.67	0.63	0.64	0.63	0.65	0.62
RT138	HPL 575/230X	575	230	11,780	3,050	1,500	0.52	0.47	0.44	0.48	0.46	0.48
RT154	HPL 375/230X	375	230	7,800	3,050	1,000	0.37	0.33	0.35	0.33	0.36	0.32
N/A	HPL 750/240	750	240	19,750	3,200	300	0.86	0.78	0.73	0.80	0.76	0.80
N/A	HPL 750/240X	750	240	15,600	3,050	1,500	0.54	0.62	0.45	0.63	0.47	0.63
RT130	HPL 575/240	575	240	14,900	3,200	400	0.63	0.63	0.61	0.63	0.62	0.62
RT139	HPL 575/240X	575	240	11,780	3,050	1,500	0.48	0.47	0.41	0.48	0.43	0.48
RT155	HPL 375/240X	375	240	7,800	3,050	1,000	0.37	0.33	0.35	0.33	0.36	0.32

Source Four Zoom is rated for 750W maximum.

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

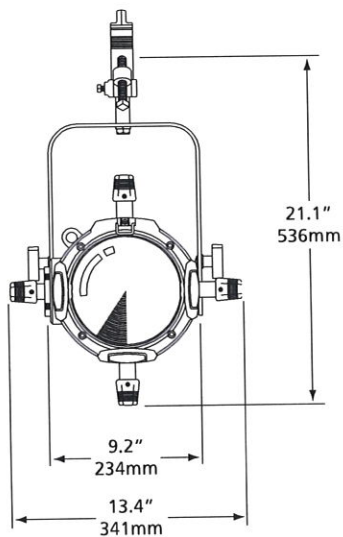
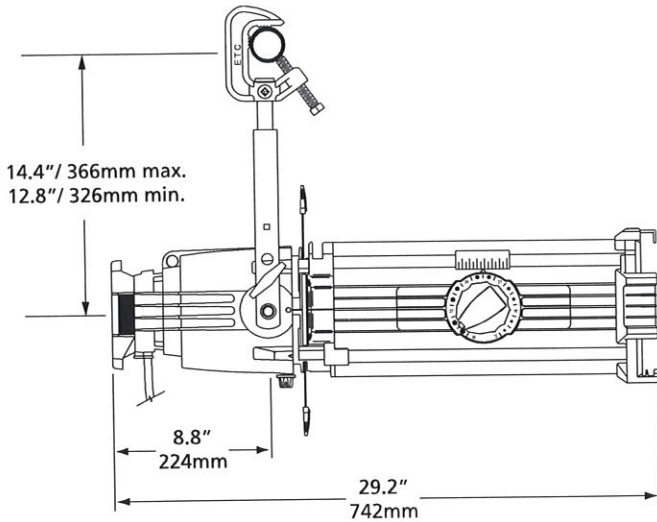
\*\*Photometric data was prepared using a production fixture and the Prometric CCD measurement system. Fixture adjusted for cosine distribution and tested with calibrated lamp at rated voltage. All data normalized to nominal lamp lumens in accordance with IES LM-73-04. Testing performed at ETC West, 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.etconnect.com](http://www.etconnect.com).

HPL specified tolerances: Watts +/- 5%, lumens +/-7%, average life +/-10%, color temperature +/- 50K

"N/A" lamps are not available for purchase from ETC. Contact your dealer for purchase.

PHYSICAL



ORDERING INFORMATION

Continued from front page...

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

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

U.S.	USRE36,3316, US5,345,371, 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

Source Four Zoom 15°-30° Weights\*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
41530	21	9.5	29	13.2

\*Includes 2.3lbs for C-clamp



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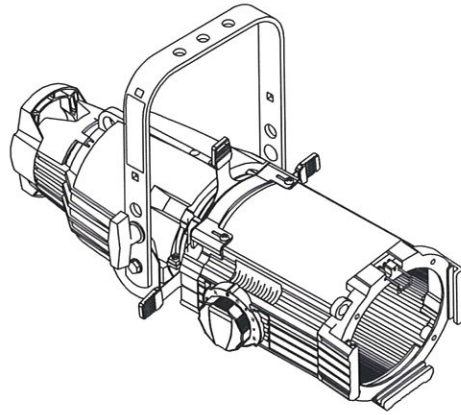
**Hong Kong** • Room 1801, 18/F, Tower 1 Phase 1, Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong • Tel +852 2799 1220 • Fax +852 2799 9325

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100V 115/120V 230/240V

Ellipsoidal Series



## SPECIFICATIONS

## PHYSICAL

- Rugged, die cast and extruded aluminium construction
- Patented one-handed focus mechanism with positive lock
- 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
- Scale markings for field angle and focus settings
- Thermally insulated rear handle
- High impact, thermally insulated knobs and shutter handles
- Integral die cast color frame holder with two accessory slots, and a top mounted, color frame retainer
- Steel yoke with two mounting positions
- Positive locking double-clutch yoke
- Slot for glass or stainless steel patterns
- Wide accessory 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)
- Patented filament geometry makes for extremely efficient light collection and transmission
- Integral die cast aluminium heat sink lamp base

## SPECIFICATIONS

## OPTICAL

- Re-optimized optical system for improved photometric performance and field uniformity
- 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
- Lenses have anti-reflective coatings
- Lenses secured with anti-vibration shock mounts
- Low gate and beam temperature, shutters will not warp or distort
- Tool free, positive locking X, Y and Z lamp centering adjustments, unaffected by relamping
- 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.

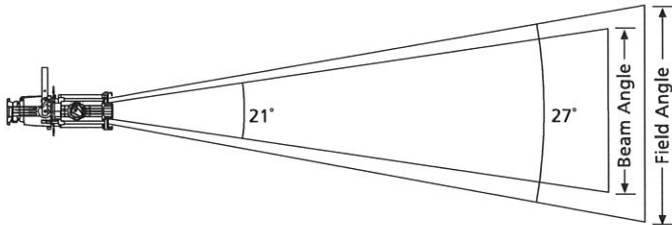
MODEL	DESCRIPTION
A	Parallel-blade U-ground connector
B	Two-pin and ground, 20 amp connector
C	Grounded, 20 amp, twistlock connector
M	Dimmer Doubling connector (NEMA L515P)

See page 5 for Source Four Accessories



PHOTOMETRICS

Photometric data below is measured with an HPL 750W/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.



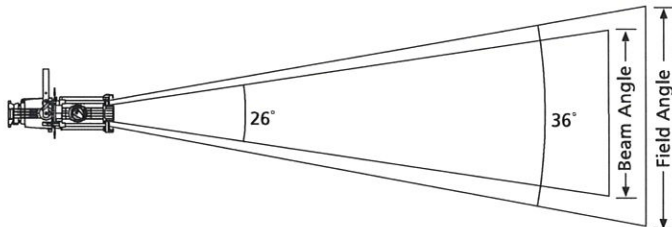
Source Four 25°-50° Zoom set at 25°(cosine)

Degree	Candela	Field Lumens	Beam Lumens	Efficiency	Lumens per watt
25°	150,745	15,035	11,165	68.7%	20.0

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

For Field diameter at any distance, multiply distance by 0.49  
For Beam diameter at any distance, multiply distance by 0.37

<b>Throw Distance (d)</b>	15'	30'	45'	55'
	4.6m	9.1m	13.7m	16.8m
<b>Field Diameter</b>	7.3'	14.6'	21.9'	26.8'
	2.2m	4.5m	6.7m	8.2m
<b>Illuminance (fc)</b>	670	167	74	50
<b>Illuminance (lux)</b>	7,212	1,803	801	536



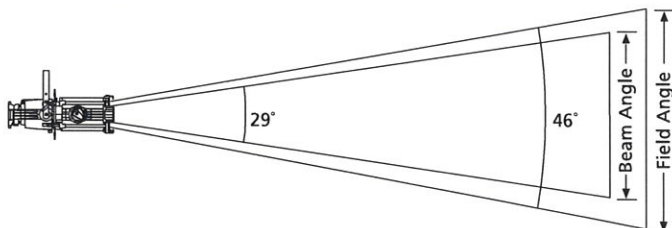
Source Four 25°-50° Zoom set at 36°(cosine)

Degree	Candela	Field Lumens	Beam Lumens	Efficiency	Lumens per watt
36°	95,330	15,300	10,415	69.9%	20.4

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

For Field diameter at any distance, multiply distance by 0.65  
For Beam diameter at any distance, multiply distance by 0.45

<b>Throw Distance (d)</b>	10'	20'	30'	45'
	3.0m	6.1m	9.1m	13.7m
<b>Field Diameter</b>	6.5'	12.9'	19.4'	29.1'
	2.0m	3.9m	5.9m	8.9m
<b>Illuminance (fc)</b>	953	238	106	47
<b>Illuminance (lux)</b>	10,258	2,565	1140	507



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

Degree	Candela	Field Lumens	Beam Lumens	Efficiency	Lumens per watt
50°	63,480	14,780	8,600	67.5%	19.7

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

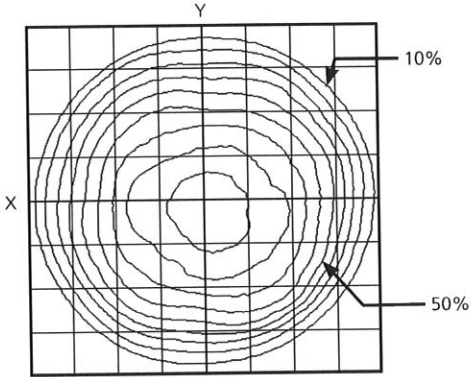
For Field diameter at any distance, multiply distance by 0.85  
For Beam diameter at any distance, multiply distance by 0.52

<b>Throw Distance (d)</b>	10'	20'	30'	35'
	3.0m	6.1m	9.1m	10.7m
<b>Field Diameter</b>	8.4'	16.9'	25.3'	29.6'
	2.6m	5.2m	7.7m	9.0m
<b>Illuminance (fc)</b>	635	159	71	52
<b>Illuminance (lux)</b>	6,833	1,708	759	558

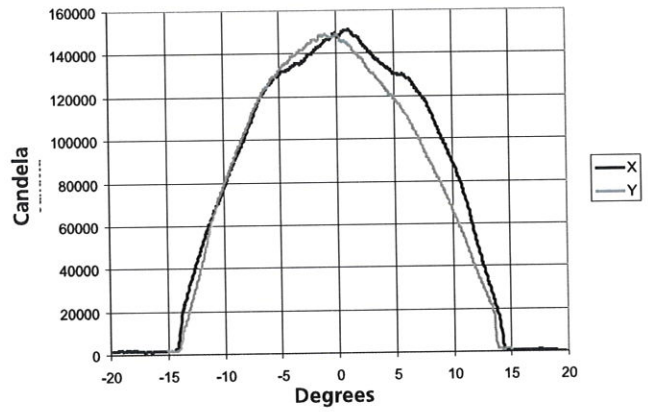
PHOTOMETRICS

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

Iso-Illuminance Diagram

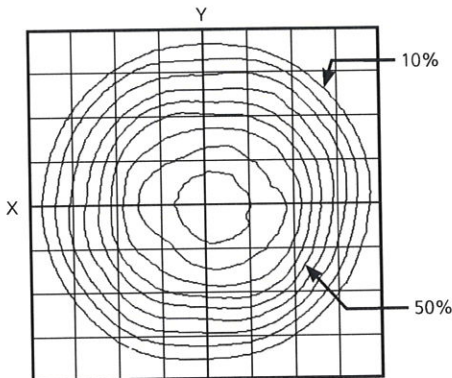


Cosine Candela Plot

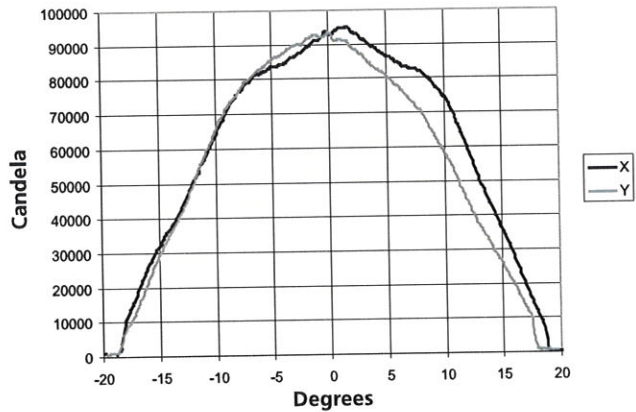


Source Four 25°-50° Zoom set at 36°(cosine)

Iso-Illuminance Diagram

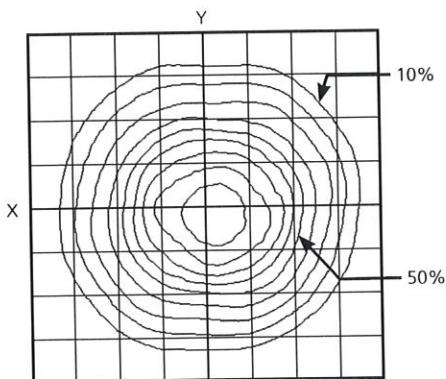


Cosine Candela Plot

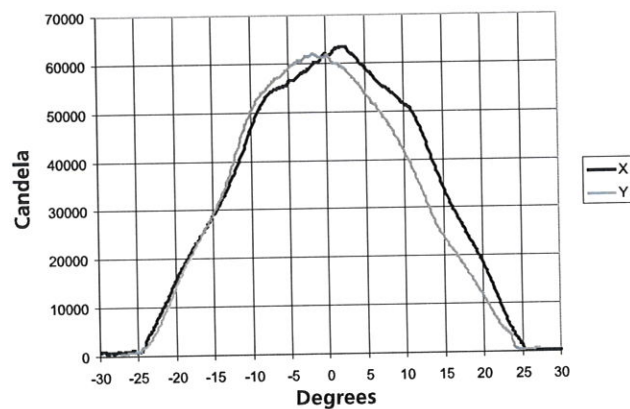


Source Four 25°-50° Zoom set at 50°(cosine)

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.etconnect.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
RT116	HPL 750/115**	750	115	21,900	3,250	300	1.00	1.00	1.00	1.00	1.00	1.00
RT196	HPL 750/115X	750	115	16,400	3,050	1,500	.64	.74	.64	.74	.64	.74
RT113	HPL 575/115**	575	115	16,520	3,250	300	.76	.74	.74	.76	.81	.81
RT114	HPL 575/115X	575	115	12,360	3,050	2,000	.56	.56	.56	.56	.56	.56
RT142	HPL 375/115	375	115	10,540	3,250	300	.64	.47	.62	.49	.68	.52
RT143	HPL 375/115X	375	115	8,500	3,050	1,000	.44	.36	.43	.37	.47	.39
N/A	HPL 750/120	750	120	21,900	3,250	300	1.00	1.00	1.00	1.00	1.00	1.00
N/A	HPL 750/120X	750	120	16,400	3,050	1,500	.64	.74	.64	.74	.64	.74
RT115	HPL 575/120	575	120	16,520	3,250	300	.76	.74	.74	.76	.81	.81
RT171	HPL 575/120X	575	120	12,360	3,050	2,000	.56	.56	.56	.56	.56	.56
RT112	HPL 550/77*	550	77	16,170	3,250	300	.78	.73	.76	.75	.83	.80
RT117	HPL 550/77X*	550	77	12,160	3,050	2,000	.59	.56	.59	.56	.59	.56
RT160	HPL 750/230**	750	230	19,750	3,200	300	.82	.84	.83	.83	.76	.81
N/A	HPL 750/230X	750	230	15,600	3,050	1,500	.51	.66	.52	.66	.47	.64
RT129	HPL 575/230**	575	230	14,900	3,200	400	.66	.63	.67	.62	.67	.67
RT138	HPL 575/230X	575	230	11,780	3,050	1,500	.49	.50	.50	.50	.46	.49
RT154	HPL 375/230X	375	230	7,800	3,050	1,000	.36	.33	.37	.32	.37	.35
N/A	HPL 750/240	750	240	19,750	3,200	300	.82	.84	.83	.83	.76	.81
N/A	HPL 750/240X	750	240	15,600	3,050	1,500	.51	.66	.52	.66	.47	.64
RT130	HPL 575/240	575	240	14,900	3,200	400	.63	.63	.63	.62	.64	.67
RT139	HPL 575/240X	575	240	11,780	3,050	1,500	.46	.50	.47	.50	.43	.49
RT155	HPL 375/240X	375	240	7,800	3,050	1,000	.36	.33	.37	.32	.37	.35

Source Four Zoom is rated for 750W 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.

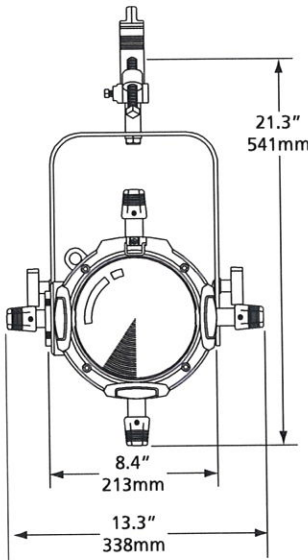
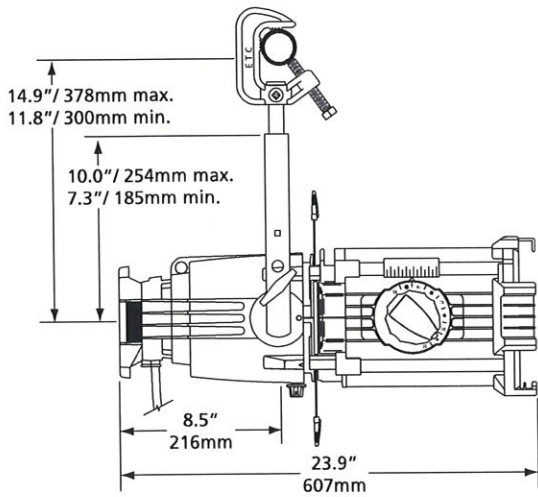
For links to photometry file downloads (IES LM-63-02 format) go to [www.etconnect.com](http://www.etconnect.com).

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

"N/A" lamps are not available for purchase from ETC. Contact your Dealer for purchase.



PHYSICAL



Source Four Zoom Weights\*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
42550	17	7.6	25	12.7

\*Includes 2.3 lbs for C-clamp

ORDERING INFORMATION

Continued from front page...

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

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

U.S.	USRE36,3316, US5,345,371, 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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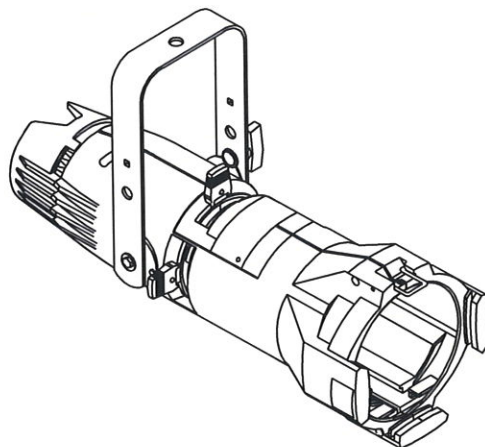
**Hong Kong** • Room 1801, 18/F, Tower 1 Phase 1, Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong • Tel +852 2799 1220 • Fax +852 2799 9325

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100V 115/120V 230/240V

Ellipsoidal Series



## SPECIFICATIONS

## PHYSICAL

- Rugged die cast aluminum construction
- 20 gauge stainless steel shutters in a bi-plane assembly
- Interchangeable lens tubes with smooth-running teflon guides provide three user-fit field angle options
- 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 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

- HPL — compact tungsten filament contained in a krypton-filled quartz envelope (see table for suitable lamp types)
- 575W Maximum
- Integral die cast aluminum heat sink lamp base

## SPECIFICATIONS

## OPTICAL

- Optimized optical system for efficient photometric performance
- Projector-quality, high contrast aspheric lens
- 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
- Interchangeable lens assembly kits permit selection of 26°, 36°, and 50° field angles, and 25°-50° zoom range

## ORDERING INFORMATION

## Source Four jr

MODEL	DESCRIPTION
450J	50° Source Four jr ellipsoidal (black)
450J-1	50° Source Four jr ellipsoidal (white)

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

## Connector Designation

Use Suffixes below to specify Factory-Fitted Connector type

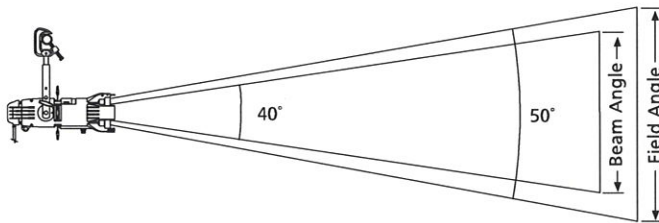
MODEL	DESCRIPTION
A	Parallel-blade U-ground connector
B	Two-pin and ground, 20 amp connector
C	Grounded, 20 amp, twistlock connector
M	Dimmer Doubling Connector (NEMA L515P)

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.



<b>Throw Distance (d)</b>	9' 2.7m	13' 4.0m	17' 5.2m	22' 6.7m
<b>Field Diameter</b>	8.5' 2.6m	12.3' 3.7m	16' 4.9m	20.7' 6.3m
<b>Illuminance (fc)</b>	289	139	81	48
<b>Illuminance (lux)</b>	3,112	1,492	872	521

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

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

For Field diameter at any distance, multiply distance by .94

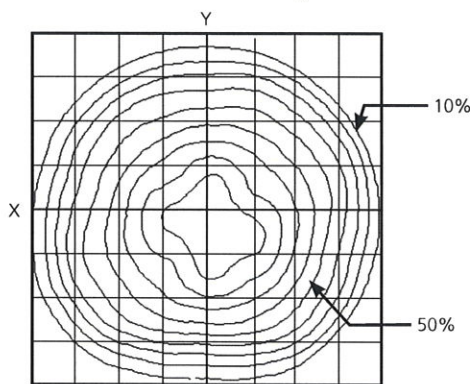
For Beam diameter at any distance, multiply distance by .72

Source Four jr 50°(cosine)

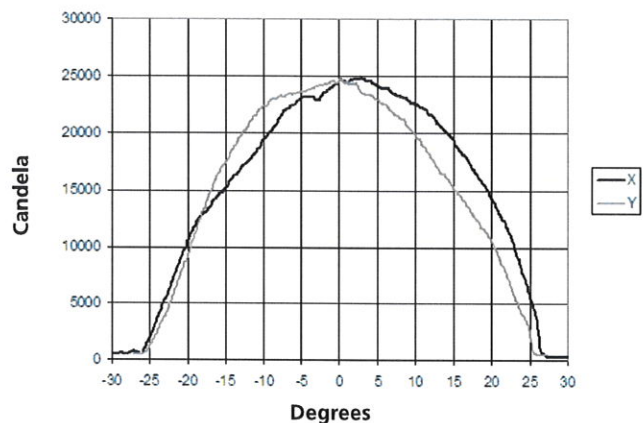
Degree	Candela	Field Lumens	Beam Lumens	Efficiency	Lumens per watt
50°	23,420	8,175	5,615	49.5%	14.2

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

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>

## LAMP 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	50° Cd MF	50° Lm MF
RT113	HPL 575/115**	575	115	16,520	3,250	300	1.00	1.00
RT114	HPL 575/115X	575	115	12,360	3,050	2,000	.64	.71
RT142	HPL 375/115	375	115	10,540	3,250	300	.84	.64
RT143	HPL 375/115X	375	115	8,500	3,050	1,000	.58	.48
RT115	HPL 575/120	575	120	16,520	3,250	300	1.00	1.00
RT171	HPL 575/120X	575	120	12,360	3,050	2,000	.64	.71
RT112	HPL 550/77*	550	77	16,170	3,250	300	1.02	.98
RT117	HPL 550/77X*	550	77	12,160	3,050	2,000	.66	.73
RT129	HPL 575/230**	575	230	14,900	3,200	400	.82	.77
RT138	HPL 575/230X	575	230	11,780	3,050	1,500	.53	.55
RT154	HPL 375/230X	375	230	7,800	3,050	1,000	.45	.40
RT130	HPL 575/240	575	240	14,900	3,200	400	.78	.77
RT139	HPL 575/240X	575	240	11,780	3,050	1,500	.50	.54
RT155	HPL 375/240X	375	240	7,800	3,050	1,000	.45	.40

Source Four jr is rated for 575W maximum.

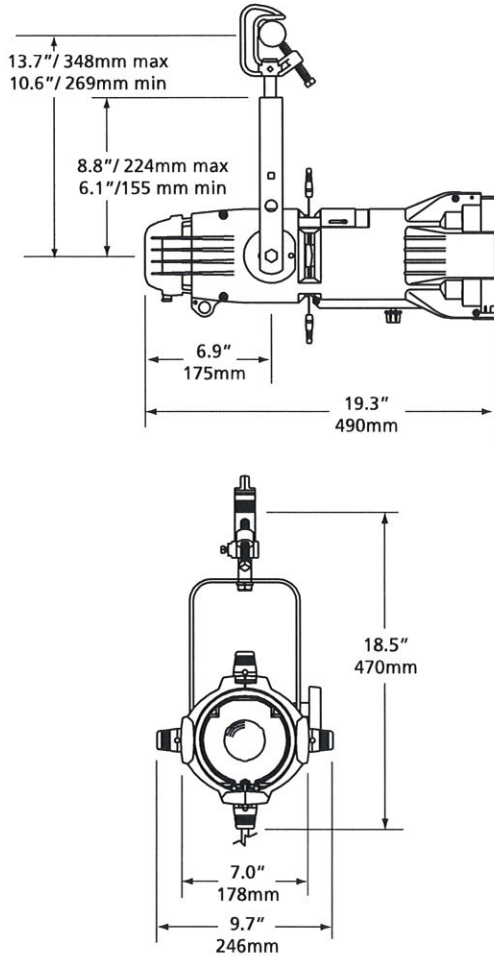
\*77 Volt HPL lamps are for use with ETC Dimmer Doubling technology only.

\*\*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.etconnect.com](http://www.etconnect.com).

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

PHYSICAL



Source Four jr Weights\*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
450j	10	4.5	16.5	7.5

\*Includes 2.3 lbs for C-clamp

ORDERING INFORMATION

Continued from front page...

Source Four jr Accessories

MODEL	DESCRIPTION
450JL	50° jr lens assembly
436JL	36° jr lens assembly
426JL	26° jr lens assembly
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.

\* 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, 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



# MagicQ PC Wing Compact

## MagicQ PC Wing Compact

Consola

ChamSys

PC Wing Compact ofrece los controles, faders y encoders para hacer del PC una consola de iluminación potente para la programación y la ejecución de shows complejos. La conexión es muy sencilla, ya que se realiza mediante la interfaz USB. Además, para un control externo al PC, PC Wing soporta 2 salidas DMX 512 directas. PC Wing Compact es la herramienta ideal para el diseñador de iluminación: su tamaño y ligero peso facilita su transporte, mientras sus funciones ofrecen toda la potencia de las consolas MagicQ. PC Wing también puede ser usado con monitores de pantalla táctil para facilitar su uso. PC Wing Compact incorpora los principales controles requeridos para la programación y playback en las consolas MagicQ. Otros controles y funciones (no usados tan a menudo) están disponibles en la pantalla del PC y accesibles mediante el ratón. Incluye 10 playbacks, cada uno con funciones Select, Go, Pause, botones flash, DBO, Add/Swap y Paginación. La sección de control master incluye funciones Go, Pause, Fwd, Bkwd. En cuanto a los controles de programación, incorpora funciones tales como: Shift, Release, Blind, Clear, Record, Set, Pos, Colour, Beam. Asimismo dispone de teclas de acceso directo que pueden utilizarse para un rápido acceso a las paletas. PC Wing Compact viene con alimentador universal y cable USB. El CD del software MagicQ PC está también incluido junto a las instrucciones de instalación.



DATOS TÉCNICOS	MAGICQ PC WING COMPACT
Nº DE UNIVERSOS	64
Red	Via PC
Media servers soportados	50 (cada uno con diferente tamaño)
Nº encoders	8
Nº botones	74
Playbacks	10
Xfaders	1
Fader master	1
Cue	5000
Lámpara de sobremesa	1
UPS	No
Puerto para monitor	No
Puertos USB	4+1
Alimentador externo	Si
Universos DMX	2
Colores	Azul
Accesorios incluidos	Cable USB, CD, lámpara de sobremesa
Opciones	Flightcase, bolsa
Dimensiones (An x Pr)	750 x 370 x 220 mm
Peso:	6

### Características

- PC WING.
- Conexión USB a PC o Mac.
- Soporta Windows, Linux y OSX.
- Botones de programación y reproducción.
- 8 encoders, 12 faders.
- 2 salidas DMX directas.
- Adición de página anterior, grupo y 4 botones de macro.
- Lámpara de escritorio LED regulable.
- 64 Universos.
- Fuente de alimentación incorporada.
- Hub USB incorporado.
- Entrada de audio.
- Se adapta a las restricciones de equipaje de mano.
- Estilo mejorado
- Diseñado y fabricado en el Reino Unido.





# BMFL™ Spot

The BMFL™ - Bright Multi-Functional Luminaire - much anticipated new lighting fixture from Robe, brings a real game changer in the world of moving lights.

The BMFL Spot™ has a custom light source designed for Robe and produces a staggering powerful 250 000 lux at 5 metres - no other product currently on the market can equal this output! Despite its power and comprehensive feature set, it weighs just 36 Kgs... and has a compact body profile. The lamp produces light at a CRI of 92+, this combined with a refined optical system, 5-55 degree zoom, results in a crisp, high quality fat beam that is truly homogenised and without a hotspot. There are also two colour wheels which include filters that can be utilised to adjust colour temperature and improve the CRI of the white output in aging lamps. There are two rotating gobo wheels - each with six slot&lock gobo positions. There are also two Rotating Prisms. The Dual Graphic Wheels both focus within the same focal plane and the rotation and movement can be individually controlled and varied... to create ultra-cool, infinitely subtle special effects. The frost and dimming functions provide further effects.

Three grades of Frost are available and the dimmer is exceptionally smooth with no distortion, so the full beam width is visible right up to the point at which it disappears. The strobe effect is authentic with up to 10 flashes per second! Aimed at long-throw applications, the newly patented Robe EMS™ (Electronic Motion Stabiliser) technology, enables the BMFL™ to absorb vibrations from audio outputs, truss movement, sprung or suspended floors, etc. The BMFL™ is a very powerful, feature packed luminaire that will provide a real signature light source for any project.



## Light source

1700 W OSRAM Lok-it! HTI 1700/PS



## Light output

40.000 lm, 250.000 lx @ 5 m, 2.500 lx @ 50 m



## Zoom range

5° - 55°



**Effects**

2x gobo wheel, dual graphic wheel, circular and linear prism

# Technical Specification

## SOURCE

- Lamp: Compact short-arc metal halide lamp
- Base: PGJX28
- Approved model: OSRAM Lok-it! HTI 1700/PS
- Lifetime: 750 hours @ 1700 W / 1500 W / Quiet mode
- CRI 92+, Colour Temperature 6.000 K
- Control: Automatic and remote on/off
- Ballast: Electronic

## OPTICAL SYSTEM

1. Robe's proprietary optical design
  2. High - efficiency zoom optical system, ratio 11:1
  3. Zoom range 5°-55°
  4. Output Lens diameter: 160 mm
  5. Dichroic glass reflector for maximising the light efficiency
  6. Fixture total lumen output:
    - 40.000 lm at 1700 W
    - 36.500 lm at 1500 W
    - 32.000 lm at 1200 W (Quiet mode)
- Light output: 250.000 lux @ 5m, 2.500 lux @ 50m

## DYNAMIC EFFECTS

- Cyan: 0 - 100 %
- Magenta: 0 - 100 %
- Yellow: 0 - 100 %
- Variable CTO: 2.700 - 6.000 K
- Colour wheel 1 with 6 fixed dichroic colours: deep red, deep blue, orange, green, magenta, congo blue + white
- Colour wheel 2 with 6 replaceable "SLOT&LOCK" dichroic colours: pink, lavender, laser green, 9000 K CTB, minus half and minus green + white
- Rotating Gobo wheel 1:6 rotating, indexable, replaceable "SLOT&LOCK" glass gobos + open
- Rotating Gobo wheel 2:6 rotating, indexable, replaceable "SLOT&LOCK" glass gobos + open
- Dual Graphic Wheel with two animation discs, individual control of rotation of each disc
- Prism 1: 6 facet linear
- Prism 2: 6 facet circular
- Iris: Motorized, stepless, pulse effects up to 3 Hz
- Frost: variable Light, Medium and Heavy Frosts
- Motorized zoom and focus
- Shutter: Separate dual blade system, Variable strobe effect up to 10 Hz, full black out
- Dimmer: Optimized dual blade system for exceptional smooth dimming

## CONTROL AND PROGRAMMING

- Setting & Addressing: ROBE Navigation System 2 (RNS2)
- Display: QVGA Robe touch screen with battery backup, gravitation sensor for auto screen positioning, operation

memory service log with RTC, stand-alone operation with 3 editable programs (each up to 100 steps), built-in analyser for easy fault finding

- Protocols: USITT DMX-512, RDM, ArtNet, MA Net, MA Net2, sACN
- Wireless CRMX™ technology from Lumen Radio (on request)
- DMX Protocol modes: 2
- Control channels: 41, 33
- Pan/Tilt resolution: 16 bit
- CMY & CTO: 8 bit
- Colour wheel positioning: 8 or 16 bit
- Rotating Gobo Wheel positioning: 8 or 16 bit
- Gobo indexing & rotation: 8 or 16 bit
- Dual Graphic Wheel: 8 bit
- Iris: 8 or 16 bit
- Frost: 8 bit
- Zoom: 8 or 16 bit
- Focus: 8 or 16 bit
- Dimmer: 8 or 16 bit

## MOVEMENT

- Pan movement: 540°
- Tilt movement: 270°
- Movement control: Standard and Speed
- Controllable speed of Pan/Tilt movement
- EMS™: Electronic Motion Stabilizer system for Pan & Tilt reducing beam deviation caused by truss movement or vibration (Patent pending)
- Automatic Pan/Tilt position correction

## ROTATING GOBOS

- 12x Rotating Glass gobos on 2 wheels
- Outside diameter: 30.8 mm
- Image diameter: 25.0 mm
- Thickness: 1.1 mm
- Max. thickness: 3.5 mm
- High temperature borofloat or better glass

## EFFECT WHEEL

- Dual Graphic Wheel
- Material: Aluminium
- Diameter: 96 mm
- Can be used alone or in combination with rotating gobos
- Rotating in both directions, variable speed

## THERMAL SPECIFICATION

- Maximum ambient temperature: 45 °C (113 °F)
- Maximum surface temperature: 100 °C (212 °F)
- Minimum operating temperature: -5 °C (23 °F)

## ELECTRICAL SPECIFICATION

- Power supply: Electronic auto-ranging

- Input voltage range: 200-240 V, 50/60 Hz
- Power consumption: 2000 W at 230 V / 50 Hz
- Power in connector: Neutrik powerCON
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in: RJ45

## APPROVALS

- CE Compliant
- cETLus Compliant

## MECHANICAL SPECIFICATION

- Height: 813 mm (32") - head in vertical position
- Width: 483 mm (19")
- Depth: 335 mm (13.2")
- Weight: 36 kg (79.4 lbs)

## RIGGING

- Mounting positions: 0°, 32° and 90°
- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locking points
- 2x Omega adaptors with 1/4-turn quick locks
- Safety cable attachment point
- Pan and Tilt transport locks

## INCLUDED ITEMS

- User Manual
- Omega Adaptor CL-regular 2 pcs
- Power cord including powerCON In connector

## ACCESSORIES

- Lamp Osram Lok-it HTI 1700/PS: 14080049
- BMFL Handles 2 pcs: 10980233
- BMFL Side Handle: 10980396
- Doughty Trigger Clamp: 17030386
- Safety wire 50 kg: 99011957
- Single Top Loader Case: 10120163-02
- Dual Top Loader Case: 10120164-02
- Foam Shell: 20020218-01

## LEGAL

- BMFL™ is a trademark of Robe lighting s.r.o.
- BMFL™ Spot is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patent

## **gobos & colours**

### **ROTATING GOBO WHEEL 1**



15020290



15020291



15020292



15020293



15020294



15020295

### **ROTATING GOBO WHEEL 2**



15020296



15020298



15020299



15020300



15020297



15020301

### **COLOUR WHEEL 1**



14070411



14070393



14070394



14070395



14070396



14070397

### **COLOUR WHEEL 2**



99014263



99014264



99014265



99014266



99014267



99014268

# BMFL™ WashBeam

The strong-arm of the BMFL™ family - the superbly powerful BMFL WashBeam comes with extra bright output and an abundance of great features, e.g newly developed framing shutters, super wide front lens and animation wheel.

The BMFL WashBeam will enhance any show with its large beam produced through wide 180 mm front lens. With custom light source designed for Robe it produces an astounding 300.000 lux at 5 metres! Rotating gobo wheel with carefully selected gobos ensure many combinations of in air animations, but can also produce nice spot-like projections on surfaces. Four fast shutter blades with smooth and precise movement offer individually angled positions within a frame - which itself can rotate through 90 degrees, providing a sharp or soft, precisely repeatable frame for the projected image. Fast movement of the framing system also allows unique in air beam effects. Adding frost filters can enhance the projection by adding smooth touches to the beam's edge.



## Light source

1700 W OSRAM Lok-it! HTI 1700/PS



## Light output

41.000 lm, 300.000 lx @ 5 m, 3.000 lx @ 50 m



## Zoom range

5° - 45°



## Effects

internal barndoors, rotating gobo wheel, interchangeable frost

# Technical Specification

## SOURCE

- Lamp: Compact short-arc metal halide lamp
- Base: PGJX28
- Approved model: OSRAM Lok-it! HTI 1700/PS
- Lifetime: 750 hours @ 1700 W / 1500 W / Quiet mode
- CRI 92+
- Colour temperature: 6.000 K
- Control: Automatic and remote on/off
- Ballast: Electronic

## OPTICAL SYSTEM

1. Robe's proprietary optical design
  2. High - efficiency zoom optical system, ratio 9:1
  3. Zoom range: 5° - 45°
  4. Output lens diameter: 180 mm
  5. Dichroic glass reflector for maximising the light efficiency
  6. High efficient component optics
  7. Fixture total lumen output
    - 41.000 lm at 1.700 W
    - 38.130 lm at 1.500 W
    - 33.620 lm at 1.200 W (Quiet mode)
- Light output: 300.000 lx @ 5 m, 3.000 lx @ 50 m

## DYNAMIC EFFECTS

- Cyan: 0-100 %
- Magenta: 0-100 %
- Yellow: 0-100 %
- Variable CTO: 2.700-6.000 K
- Colour wheel 1: 6 fixed dichroic colours - deep red, deep blue, orange, green, magenta, congo blue + white
- Colour wheel 2: 6 replaceable "SLOT&LOCK" dichroic colours - pink, lavender, laser green, 9.000 K CTB, minus half and minus green + white
- Framing shutters: 4 individually positionable blades plus rotation of the complete frame system +-45°
- Rotating gobo wheel: 6 rotating, indexable, replaceable "SLOT&LOCK" glass gobos + open
- Aluminium animation wheel: used alone or in combination with gobos, rotating in both directions at variable speed
- Iris: Motorized, stepless, pulse effects up to 3 Hz
- Frost: Variable Light, Medium plus replaceable Heavy (two another frosts included)
- Motorized zoom and focus
- Shutter: Separate dual blade system, Variable strobe effect up to 10 Hz, full black out
- Dimmer: Optimized dual blade system for exceptional smooth dimming

## CONTROL AND PROGRAMMING

- Setting & Addressing: ROBE Navigation System 2 (RNS2)
- Display: QVGA Robe touch screen with battery backup, gravitation sensor for auto screen positioning, operation



memory service log with RTC, stand-alone operation with 3 editable programs (each up to 100 steps), built-in analyser for easy fault finding

- Protocols: USITT DMX-512, RDM, Art-Net, MA Net, MA Net2, sACN
- Wireless version: CRMX™ technology from Lumen Radio
- DMX Protocol modes: 2
- Control channels: 48, 41
- Pan/Tilt resolution: 16 bit
- CMY & CTO: 8 bit
- Colour wheel positioning: 8 or 16 bit
- Framing shutters system: 8 bit
- Rotating gobo wheel positioning: 8 bit
- Gobo indexing & rotation: 8 or 16 bit
- Animation wheel: 8 bit
- Animation wheel rotation: 8 bit
- Iris: 8 or 16 bit
- Frost: 8 bit
- Zoom: 8 or 16 bit
- Focus: 8 or 16 bit
- Dimmer: 8 or 16 bit

## MOVEMENT

- Pan movement: 540°
- Tilt movement: 270°
- Movement control: Standard and Speed
- Controllable speed of Pan/Tilt movement
- EMS™: Electronic Motion Stabilizer system for Pan & Tilt reducing beam deviation caused by truss movement or vibration (Patent pending)
- Automatic Pan/Tilt position correction

## ROTATING GOBOS

- 6x rotating glass gobos
- Outside diameter: 30.8 mm
- Image diameter: 25.0 mm
- Thickness: 1.1 mm
- Max. thickness: 3.5 mm
- High temperature borofloat or better glass

## EFFECT WHEEL

- Single animation wheel
- Material: Aluminium
- Diameter: 109 mm
- Can be used alone or in combination with rotating gobos
- Rotating in both directions, variable speed

## FRAMING SHUTTERS SYSTEM

- Blade: 4 Blades, each with separate movement and rotation control
- Movement: Smooth with variable speed, ultrafast blade movements for creating mid-air effects
- Pre-programmed: Shape and blade sequences
- Rotation: 90° of the complete framing system

## THERMAL SPECIFICATION

- Maximum ambient temperature: 45 °C (113 °F)
- Maximum surface temperature: 170 °C (338 °F)
- Minimum operating temperature: -5 °C (23 °F)

## ELECTRICAL SPECIFICATION AND CONNECTIONS

- Power supply: Electronic auto-ranging
- Input voltage range: 200-240 V, 50/60 Hz
- Power consumption: 2000 W at 230 V / 50 Hz
- Power in connector: Neutrik powerCON
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in: RJ45

## APPROVALS

- cETLus Compliant
- CE Compliant

## MECHANICAL SPECIFICATION

- Height: 826 mm (32.5")
- Width: 483 mm (19.0")
- Depth: 335 mm (13.2")
- Weight: 38.4 kg (84.7 lbs)

## RIGGING

- Mounting positions: 0°, 32°, 90°
- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locks
- 2x Omega adaptors with 1/4-turn quick locks
- Safety cable attachment point
- Pan and Tilt transport locks

## INCLUDED ITEMS

- User Manual
- Omega Adaptor CL-regular 2 pcs
- Power cord including powerCON In connector

## ACCESSORIES

- Lamp Osram Lok-it HTI 1700/PS: 14080049
- BMFL Handles 2 pcs: 10980233
- BMFL Side Handle: 10980396
- Trigger Clamp Doughty: 17030386
- Safety wire 50 kg: 99011957
- Single Top Loader Case: 10120163-02
- Dual Top Loader Case: 10120164-02
- Foam Shell: 20020218-01

**LEGAL**

- BMFL WashBeam is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patents

## **gobos & colours**

### **ROTATING GOBO WHEEL**



15020323



15020322



15020321



15020320



15020319



15020318

### **COLOUR WHEEL 1**



14070411



14070393



14070394



14070395



14070396



14070397

### **COLOUR WHEEL 2**



99014263



99014264



99014265



99014266

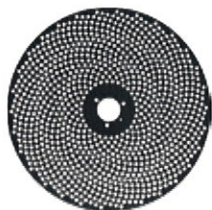


99014267



99014268

### **ANIMATION WHEEL**



11020215

# BMFL™ Wash / Wash XF

BMFL™ - Wash is the ultimate fresnel based 1.700 W lamp based wash light with large 200 mm diameter front fresnel lens for high quality traditional wash output ranging from punchy tight 4.5° to smooth 55°.

Custom interchangeable frost filters with three grades (light, medium and heavy) for extremely gentle soft touch. CMY + CTO colour mixing filters for the unprecedented BMFL quality of colour transitions and two color wheels with 6 colours each, one with custom replaceable "SLOT&LOCK" positions. Advanced DMX controllable edge aberration correction for smoother hues and seamless coverage. The Optional XF module expands the features of the BMFL™ Wash with innovative internal Scrim having a graduated filter, which can be inserted to the light path and allowing rotation of the whole assembly +/- 180° to achieve even wash coverage when projecting onto a non-perpendicular surface and internal motorised barndoors for creating different unique shapes and chases which also simulate barndoor effects. The barndoor module consists of four individually controllable blades and is rotatable by +/- 90°.

**Light source**

Osram Lok-it! HTI 1700/PS

**Light output**

38.000 lm at 1.700 W

**Zoom range**

4.5° - 55°

**Effects**

Beam Shaper module, Scrim Module

# Technical Specification

## SOURCE

- Light source type: Compact short-arc metal halide lamp
- Base: PGJX28
- Approved model: OSRAM Lok-it! HTI 1700/PS
- Lifetime: 750 hours @ 1.700 W / 1.500 W / Quiet mode
- CRI: CRI 92+
- Colour temperature: 6.000K
- Control: Automatic and remote on/off
- Ballast: Electronic

## OPTICAL SYSTEM

1. Robe's proprietary optical design
2. High - efficiency zoom optical system, ratio 12:1
3. Zoom range: 4,5° - 55°
4. Output Lens diameter: 200 mm
5. Dichroic glass reflector for maximising the light efficiency
6. High efficient component optics
7. Fixture total lumen output
  - 38.000 lm at 1.700 W
  - 32.680 lm at 1.500 W
  - 27.630 lm at 1.200 W (Quiet mode)

- Light output: 125.000 lx @ 5 m, 1250 lx @ 50 m

## DYNAMIC EFFECTS

- Cyan: 0-100 %
- Magenta: 0-100 %
- Yellow: 0-100 %
- Variable CTO: 2.700-6.000 K
- Colour Wheel 1: 6 fixed dichroic colours: deep red, deep blue, orange, green, magenta, congo blue + white
- Colour Wheel 2: 6 replaceable "SLOT&LOCK" dichroic colours: pink, lavender, laser green, 9000 K CTB, minus half and minus green + white
- Internal barndoors: individual position control of 4 "doors", +/- 90° module rotation (Patent pending)
- Frost: Interchangeable - light, medium (standard), heavy
- Motorized zoom
- Edge colour correction
- Scrim: Graduated filter position control, +/- 180° module rotation (Patent pending)
- Shutter: Separate dual blade system, Variable strobe effect up to 10 Hz, full black out
- Dimmer: Optimized dual blade system for exceptional smooth dimming

## CONTROL AND PROGRAMMING

1. Setting & Addressing: ROBE Navigation System 2 (RNS2)
2. Display: QVGA Robe touch screen with battery backup, gravitation sensor for auto screen positioning, operation

memory service log with RTC, stand-alone operation with 3 editable programs (each up to 100 steps), built-in analyser for easy fault finding

3. Protocols: USITT DMX-512, RDM, Art-Net, MA Net, MA Net2, sACN
4. Wireless CRMX™ technology from Lumen Radio
5. Protocol modes

- BMFL™ Wash: 2 DMX Modes
- BMFL™ Wash XF: 2 DMX Modes
  
- Control channels
  - BMFL™ Wash: 25, 21
  - BMFL™ Wash XF: 34, 30
  
- Pan/Tilt resolution: 16 bit
- CMY & CTO: 8 bit
- Colour wheel positioning: 8 or 16 bit
- Internal barndoor module movement & rotation: 8 bit
- Scrim: 8 bit
- Frost: 8 bit
- Zoom: 8 bit
- Edge colour correction: 8 bit
- Dimmer: 8 or 16 bit

## MOVEMENT

- Pan movement: 540°
- Tilt movement: 270°
- Movement control: Standard and Speed
- Controllable speed of Pan/Tilt movement
- EMS™: Electronic Motion Stabilizer system for Pan & Tilt reducing beam deviation caused by truss movement or vibration (Patent pending)
- Automatic Pan/Tilt position correction

## OPTIONAL XF MODULE CONTAINS

- Scrim: Graduated filter position control, +/- 180° module rotation (Patent pending)
- Internal barndoors: individual position control of 4 "doors", +/- 90° module rotation (Patent pending)

## THERMAL

- Maximum ambient temperature: 50 °C (122 °F)
- Maximum surface temperature: 100 °C (212 °F)
- Minimum operating temperature: -5 °C (23 °F)

## ELECTRICAL SPECIFICATION AND CONNECTIONS

- Power supply: Electronic auto-ranging
- Input voltage range: 200-240 V, 50/60 Hz
- Power consumption: 2.000 W at 230 V / 50 Hz
- Power in connector: Neutrik powerCON
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in: RJ45

## APPROVALS

- cETLus Compliant
- CE Compliant

## MECHANICAL SPECIFICATION

- Height: 826 mm (32.5") – head in vertical position
- Width: 483 mm (19")
- Depth: 335 mm (13.2")
- Weight: 35 kg (77.2 lbs)

## RIGGING

- Mounting positions: 0°, 32°, 90°
- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locking points
- 2x Omega adaptors with 1/4-turn quick locks
- Safety cable attachment point
- Pan and Tilt transport locks

## INCLUDED ITEMS

- User Manual
- Omega Adaptor CL-regular 2 pcs
- Power cord including powerCON In connector

## ACCESSORIES

- Lamp Osram Lok-it HTI 1700/PS: 14080049
- Module XF for Robin BMFL Wash: 10980266
- Doughty Trigger Clamp : 17030386
- Safety wire 50 kg: 99011957
- Single Top Loader Case: 10120163-02
- Dual Top Loader Case: 10120164-02
- Foam Shell: 20020218-01

## LEGAL

- BMFL™ is a trademark of Robe lighting s.r.o.
- BMFL™ Wash / Wash XF is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patent



# 329HF

329 - 2000/2500 W TUNGSTEN



- **Type:** Single lens luminaire
- **Source:** 2000/2500 W Tungsten
- **Optics:** 200 mm Fresnel lens

Single lens

## The industry standard for 2.5K units

329H is a favourite in theatres, opera houses and concert halls the world over.

A G22 lamp socket holds the lamp securely in place giving reliability, longer lamp life and 2000 W or 2500 W lamp options. Ideal for medium to large venues and rental companies.

### Features

- **Theatre front cassette:** no light spill to distract audiences or performers
- **Colour runners:** double runners to hold accessories and colour filters
- **Barn door:** unique rotating barn door with 4 individually rotating blades – makes even the most difficult angle possible
- **Focus adjustment:** smooth focus adjustment from front or rear, even when lantern is hot, for a longer lamp life
- **Tilt reference on hanging yoke:** index for rapid re-positioning

### Optical

- **G22 socket:** accepts 2000 W and 2500 W lamps
- **200 mm lens:** compact size 2 / 2.5 KW fixture

### Construction

- **Made in France :** fully manufactured in Robert Juliat premises retaining complete control over all aspects of quality
- **Air vents:** efficient cooling with no light spill
- **Bodywork:** strong sheet metal construction for durability
- **Moving parts:** smooth at all times, even when hot
- **Captive knobs and handles:** additional security when working at height or in transit
- **Access:** easy access to lamp house and lenses through front opening for fast and efficient maintenance
- **Easy access to all parts:** easy cleaning, re-lamping and maintenance
- **Safety grid:** earthed safety grid fitted as standard
- **Safety first:** front accessories safety cable attachment point

Picture:329H

DSEN023\_329HF - 16/06/2017

Robert Juliat reserves the right to change or alter any of the items detailed on this page, to increase or improve manufacturing techniques without prior notice.

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www.robertjuliat.com



ROBERT JULIAT

## Source



- **Lamp type:** Tungsten
- **Socket:** G22

Admissible lamps	Power *	Lumen output*	Colour temperature*	Life*
LIF: CP92	2 000 W	52 000 lm	3200K	400 h
LIF: CP91	2 500 W	65 000 lm	3200K	400 h

(\* manufacturer's data)

## Optics

### Characteristics

- **Type:** Single lens
- **Beam range:** 7° to 49°
- **Lens:** 200 mm Fresnel lens

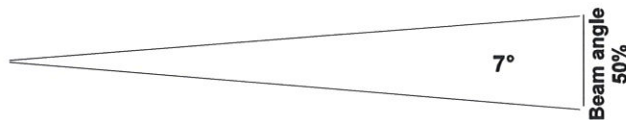
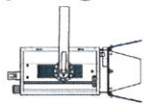
### Gel filter

- **Shape:** Square
- **Standard size:** 245x245 mm (9.6x9.6 in)

## Photometrics

with LIF: CP91 source

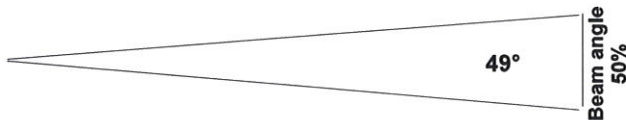
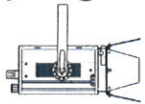
### • Optics @ 7°



**Beam intensity**  
340 000 cd

<b>Distance</b>	5 m	10 m	15 m	20 m	25 m	30 m
<b>Diameter</b>	0.6 m	1.2 m	1.8 m	2.4 m	3.1 m	3.7 m
<b>Illumination</b>	14 000 lux	3 450 lux	1 550 lux	860 lux	550 lux	380 lux
<b>Distance</b>	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
<b>Diameter</b>	1.8 ft	4.3 ft	6.1 ft	8 ft	9.8 ft	12.2 ft
<b>Illumination</b>	1 550 fc	280 fc	140 fc	85 fc	55 fc	35 fc

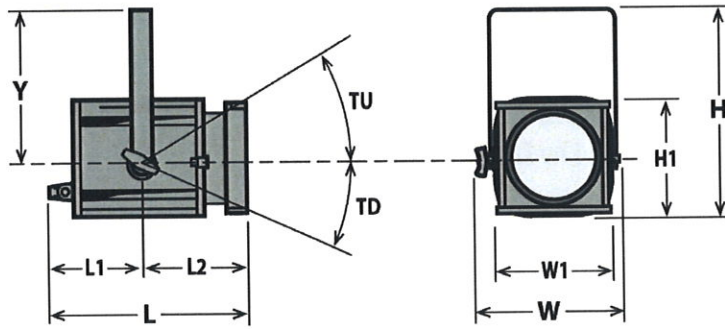
### • Optics @ 49°



**Beam intensity**  
44 000 cd

<b>Distance</b>	5 m	10 m	15 m	20 m	25 m	30 m
<b>Diameter</b>	4.6 m	9.1 m	13.7 m	18.2 m	22.8 m	27.3 m
<b>Illumination</b>	1 800 lux	450 lux	200 lux	120 lux	75 lux	49 lux
<b>Distance</b>	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
<b>Diameter</b>	13.7 ft	31.9 ft	45.6 ft	59.2 ft	72.9 ft	91.1 ft
<b>Illumination</b>	200 fc	36 fc	18 fc	11 fc	7 fc	5 fc

## Dimensions and weight



Weight: 14 kg (30.8 lbs)

Height	Length	Width	Yoke	Tilt
H= 520 mm (20.5 in)	L= 470 mm (18.5 in)	W= 410 mm (16.1 in)	Y= 345 mm (13.6 in)	TU= TBD°
H1= 320 mm (12.6 in)	L1= 285 mm (11.2 in) L2= 185 mm (7.3 in)	W1= 320 mm (12.6 in)		TD= TBD°

## Shipping

- **Weight :** 15 kg (33 lbs)
- **Volume :** .09 m<sup>3</sup> (3.18 ft<sup>3</sup>)

## Installation

- **Minimum distance to illuminated surface:** 2.7 m ( 8.9 ft )
- **Operating position:**



## Warranty

- **Period: 2 years**  
See General Sales Condition on website

## Approvals



## Construction

- **Housing:** Steel sheet - Aluminium
- **Colour:** Black
- **Cooling:** Convection cooling
- **Maximum ambient temperature (Ta):** 40°C (104°F)
- **Maximum case temperature (Tc):** 250°C (482°F)
- **Total heat dissipation:** 6 826 BTU/h
- **Protection rating:** 20

## Electrical compatibility

- 230/240 V - 50 Hz
- ~~415/420 V - 60 Hz~~

## Power input



- **Type:** attached power cord
- **Cable:** H07RNF 3G1.5
- **Length:** 3 m (9,8 ft)
- **Power connector:** CEE 7/7 (2P+E NF/Schuko)


## Power consumption

Voltage	Frequency	Current	Power
230 V	50 Hz	9 A	2000 W
230 V	50 Hz	11 A	2500 W









**Model**

<b>329HF</b>	2000/2500 W Tungsten Single lens luminaire - G22 socket - 200mm Fresnel - 329HF
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**Options**

<b>LT-Fresnel</b>	Licht-Technik motorisation controlled by DMX: Pan, tilt, focus, barndoors, colour changer
<b>PCP1716A</b>	16A blue 2P+E 6h IEC60309 power connector 

**Accessories**

<b>PF329M</b>	245x245mm metal filter holder - Weight: ,23 Kg <b>1 included</b>	
<b>G329</b>	245x245mm safety grid <b>1 included</b>	
<b>CP91</b>	CP91 - G22 2500W 230V 400h 3200K lamp	
<b>CP92</b>	CP92 - G22 2000W 230V 400h 3200K lamp	
<b>CF329</b>	4 rotating leaves on a rotating barndoor - 245x245mm (without safety cable) - Weight: 1,42 Kg	
<b>876</b>	Hook clamp 40x10mm with 28mm M10 screw for Ø35 to 50mm pipes - SWL: 50Kg - Weight: 1,25 Kg	
<b>880</b>	Hook clamp 40x10mm with 28mm M10 screw for Ø50 to 63mm pipes - SWL: 50Kg - Weight: 1,36 Kg	
<b>CS2</b>	Safety cable Ø3 mm L= 600mm - SWL: 75 Kg	

# BIOHF

310 - 1000/1200 W TUNGSTEN



- **Type:** Single lens luminaire
- **Source:** 1000/1200 W Tungsten
- **Optics:** 200 mm Fresnel lens

Single lens

## Reliable and easy to maintain

A large 200 mm lens gives unparalleled light output and quality of beam. The 310H is at home in every venue, large and small, and offers broad coverage with a smooth, even beam. Designed for easy maintenance, this unit has a well-earned reputation for reliability.

### Features

- **Theatre front cassette:** no light spill to distract audiences or performers
- **Colour runners:** double runners to hold accessories and colour filters
- **Barn door:** unique rotating barn door with 4 individually rotating blades – makes even the most difficult angle possible
- **Focus adjustment:** smooth focus adjustment from rear, even when lantern is hot, for a longer lamp life
- **Tilt reference on hanging yoke:** index for rapid re-positioning

### Optical

- **Multiposition socket:** accepts 1000 W and 1200 W lamps
- **Unique 200 mm (8 in) lens:** no equivalent on the market in terms of light output and beam quality

### Construction

- **Made in France :** fully manufactured in Robert Juliat premises retaining complete control over all aspects of quality
- **Air vents:** efficient cooling with no light spill
- **Bodywork:** strong sheet metal construction for durability
- **Moving parts:** smooth at all times, even when hot
- **Captive knobs and handles:** additional security when working at height or in transit
- **Access:** easy access to lamp house and lenses through front opening for fast and efficient maintenance
- **Easy access to all parts:** easy cleaning, re-lamping and maintenance
- **Safety grid:** earthed safety grid fitted as standard
- **Safety first:** front accessories safety cable attachment point

Picture: 310H

DSEN005\_310HF - 16/06/2017

Robert Juliat reserves the right to change or alter any of the items detailed on this page, to increase or improve manufacturing techniques without prior notice.

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www.robertjuliat.com



ROBERT JULIAT

## Source



- **Lamp type:** Tungsten
- **Socket:** Gx9.5

Admissible lamps	Power *	Lumen output*	Colour temperature*	Life*
LIF: T19 (T11) - ANSI: FWP/FWR	1 000 W	21 000 lm	3050K	750 h
LIF: CP70 - ANSI: FVA/FVB	1 000 W	26 000 lm	3200K	200 h
LIF: T29 - ANSI: FWS/FWT	1 200 W	29 000 lm	3050K	400 h
LIF: CP90	1 200 W	30 000 lm	3200K	200 h

(\*) manufacturer's data

## Optics

### Characteristics

- **Type:** Single lens
- **Beam range:** 6° to 46°
- **Lens:** 200 mm Fresnel lens

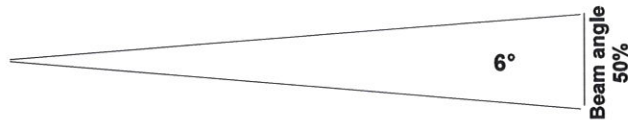
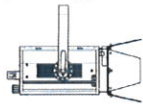
### Gel filter

- **Shape:** Square
- **Standard size:** 215x215 mm (8.5x8.5 in)

## Photometrics

with LIF: CP90 source

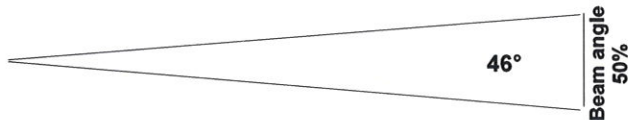
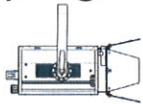
### • Optics @ 6°



**Beam intensity**  
220 000 cd

<b>Distance</b>	3 m	5 m	7 m	10 m	12 m	15 m
<b>Diameter</b>	0.3 m	0.5 m	0.7 m	1 m	1.3 m	1.6 m
<b>Illumination</b>	24 500 lux	8 900 lux	4 500 lux	2 250 lux	1 550 lux	980 lux
<b>Distance</b>	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
<b>Diameter</b>	1 ft	1.6 ft	2.6 ft	3.7 ft	4.2 ft	5.2 ft
<b>Illumination</b>	2 250 fc	980 fc	360 fc	180 fc	140 fc	90 fc

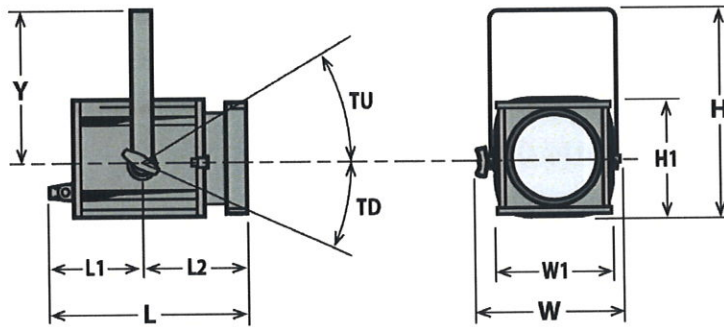
### • Optics @ 46°



**Beam intensity**  
25 000 cd

<b>Distance</b>	3 m	5 m	7 m	10 m	12 m	15 m
<b>Diameter</b>	2.5 m	4.2 m	5.9 m	8.5 m	10.2 m	12.7 m
<b>Illumination</b>	2 800 lux	1 010 lux	520 lux	260 lux	180 lux	120 lux
<b>Distance</b>	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
<b>Diameter</b>	8.5 ft	12.7 ft	21.2 ft	29.7 ft	34 ft	42.4 ft
<b>Illumination</b>	260 fc	120 fc	41 fc	21 fc	16 fc	11 fc

## Dimensions and weight



**Weight:** 7.7 kg (16.9 lbs)

Height	Length	Width	Yoke	Tilt
H= 440 mm (17.3 in) H1= 250 mm (9.8 in)	L= 465 mm (18.3 in) L1= 260 mm (10.2 in) L2= 205 mm (8.1 in)	W= 350 mm (13.8 in) W1= 250 mm (9.8 in)	Y= 315 mm (12.4 in)	TU= TBD° TD= 90°

## Shipping

- **Weight :** 9.2 kg (20.2 lbs)
- **Volume :** .06 m<sup>3</sup> (2.26 ft<sup>3</sup>)

## Installation

- **Minimum distance to illuminated surface:** 1.1 m ( 3.6 ft )
- **Operating position:**



## Warranty

- **Period: 2 years**  
See General Sales Condition on website

## Approvals



## Construction

- **Housing:** Steel sheet - Aluminium
- **Colour:** Black
- **Cooling:** Convection cooling
- **Maximum ambient temperature (Ta):** 40°C (104°F)
- **Maximum case temperature (Tc):** 200°C (392°F)
- **Total heat dissipation:** 3 413 BTU/h
- **Protection rating:** 20

## Electrical compatibility

- 230/240 V - 50 Hz
- 115/120 V - 60 Hz

## Power input



- **Type:** attached power cord
- **Cable:** H07RNF 3G1.5
- **Length:** 3 m (9,8 ft)
- **Power connector:** CEE 7/7 (2P+E NF/Schuko)


## Power consumption

Voltage	Frequency	Current	Power
230 V	50 Hz	5 A	1000 W
230 V	50 Hz	6 A	1200 W










**Model**

<b>310HF</b>	1000/1200 W Tungsten Single lens luminaire - Gx9.5 socket - 200mm Fresnel - 310HF
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**Options**

<b>LT-Fresnel</b>	Licht-Technik motorisation controlled by DMX: Pan, tilt, focus, barndoors, colour changer
<b>PCP1716A</b>	16A blue 2P+E 6h IEC60309 power connector 

**Accessories**

<b>PF1000M2</b>	215x215mm metal filter holder <b>1 included</b>	
<b>G1000</b>	215x215mm safety grid <b>1 included</b>	
<b>CP70</b>	CP70 - Gx9.5 1000W 230V 200h 3200K lamp	
<b>T19 (T11)</b>	T19 (T11) - Gx9.5 1000W 230V 750h 3050K lamp	
<b>CP90</b>	CP90 - Gx9.5 1200W 230V 200h 3200K lamp	
<b>CF1000</b>	4 rotating leaves on a rotating barndoor - 215x215mm ( without safety cable) - Weight: 1,03 Kg	
<b>876</b>	Hook clamp 40x10mm with 28mm M10 screw for Ø35 to 50mm pipes - SWL: 50Kg - Weight: 1,25 Kg	
<b>880</b>	Hook clamp 40x10mm with 28mm M10 screw for Ø50 to 63mm pipes - SWL: 50Kg - Weight: 1,36 Kg	
<b>CS2</b>	Safety cable Ø3 mm L= 600mm - SWL: 75 Kg	





100V 115/120V 230/240V

## Source Four LED Series



## GENERAL INFORMATION

The **Source Four LED Series 2** is the evolution of LED lighting. While it may look the same on the outside, the Series 2 offers even more of what makes the Source Four LED the best LED profile available. With optimized arrays and finely-tuned electronics, the Series 2 offers a combination of light quality and output that cannot be matched.

**Source Four LED Series 2 Lustr®** luminaires are based on the x7 Color System™, utilizing seven colors including high-output lime to achieve true, usable broad-spectrum color with a depth and feel beyond any RGB fixture.

**Source Four LED Series 2 Daylight HD and Tungsten HD** arrays are designed for broadcast lighting, offering flicker-free operation and high-definition lighting. With a new mix of LED emitters, the luminaires' output is significantly brighter than the original Source Four LED white-light arrays. The Daylight HD array produces variable-cool white (4000 to 6500K) light that imitates natural daylight. The Tungsten HD array matches conventional tungsten lighting, with adjustable warm-white (2700 to 4500K) light. They offer tint control, so they can be tweaked to perfectly illuminate individual skin tones.

Series 2 light engines work with all Source Four lens tubes to deliver a high-quality, controllable beam of LED light. For the best results, it is highly recommended that EDLT versions are used. We also offer a special LED-only version of the 50° lens tube.

## ORDERING INFORMATION

**Source Four LED Series 2 Light Engine with Shutter Barrel**

(For use with fixed-field lens tubes only)

MODEL	DESCRIPTION
S4LEDS2LS-0	Source Four LED Series 2 Lustr with shutter barrel, black
S4LEDS2THDS-0	Source Four LED Series 2 Tungsten HD with shutter barrel, black
S4LEDS2DHDS-0	Source Four LED Series 2 Daylight HD with shutter barrel, black

**Source Four LED Series 2 Light Engine Body**

(For use with zoom lens tubes and retrofit of existing fixtures)

MODEL	DESCRIPTION
S4LEDS2L-0	Source Four LED Series 2 Lustr, body only, black
S4LEDS2THD-0	Source Four LED Series 2 Tungsten HD, body only, black
S4LEDS2DHD-0	Source Four LED Series 2 Daylight HD, body only, black

Color options: -1 = white, -5 = silver gray/custom colors  
 Fixture ships with a soft-focus diffuser in a gobo holder and a 1.5m PowerCON™ power-input cable with a connector of choice. See page 2 for connector options.

**Please note: Lens tubes to be ordered separately.**



SPECIFICATIONS

**GENERAL**

- 60-LED array
- ETL listed to UL1573 – the standard for stage and studio lighting units
- IP20-rated for indoor use
- Power and DMX in/thru connections for easy setup
- User-friendly control interface with multiple modes and fixture settings

**PHYSICAL**

- Rugged die-cast all-metal housing
- Available in black (standard), white or silver gray or custom colors (contact factory)
- C-clamp
- Positive-locking double-clutch fixture body
- Slot for glass or stainless steel patterns and soft-focus diffuser
- Wide accessory slot with sliding cover for motorized pattern devices or optional iris
- Hanging yoke standard. Optional yoke/floor-stand available

**ELECTRICAL**

- 100VAC to 240VAC 50/60Hz universal power input
- Neutrik power in and thru connections
- Up to nine Lustr or seven Daylight HD/Tungsten HD luminaires (15A max) may be linked via power thru connector (10 Lustr or 8 Daylight HD/Tungsten HD fixtures total per circuit) when used with R20 Relay Module or Unison® Echo™ Relay Panel
  - Consult breaker-trip curves when used with other equipment. Requires power from a non-dim source
- Inrush
  - 120V: 50A (First half-cycle)
  - 240V: 107A (First half-cycle)

**LED\***

- Lustr: 54,000-hour LED life (54,000 hours to 70% intensity)
  - Daylight HD/Tungsten HD: 20000-hour LED life (20,000 hours to 70% intensity)
  - 60 Luxeon® Rebel LED emitters
- \*See additional LED notes on page four

**COLOR**

- Exclusive x7 Color System seven-color LED array (Lustr)
- Selection from the x7 Color System to provide high quality, variable-white light
  - Tungsten HD (2700K-4000K)
  - Daylight HD (4000K-6500K)
- Beautifully illuminates skin tones and other objects for natural appearance and high color rendering
- Broad-spectrum color interacts seamlessly with conventional sources
- Exclusive optional red-shift option emulates tungsten dimming performance

**OPTICAL**

- Use the included soft-focus diffuser for creating washes or soft light
- Best performance using ETC's EDLT lens tubes
- Can use all ETC Source Four interchangeable lens barrels: 5°, 10°, 14°, 19°, 26°, 36°, 50°, 70°, and 90° field angles, as well as 19°, 26°, 36°, and 50° EDLT lenses
- For better performance, use the LED 50° barrel

**CONTROL**

- DMX512 in and thru via five-pin XLR connectors

SPECIFICATIONS

**CONTROL**

- Multiple control options, including RGB, strobe, and console-free Master/Slave mode
- See DMX Control Table for additional information
- 15-bit virtual dimming engine provides smooth, high-quality theatrical fades and minimizes color shift during dimming
- RDM functionality for address and setting changes

**THERMAL**

- Ambient operating temperature of 32° to 104°F (0° to 40°C)
- Active electronic thermal management for droop-free operation
- Quiet fan cooling
- Fixture is designed for continuous operation up to 104°F (40°C) ambient temperature and requires free flow of air around fixture housing

ADDITIONAL ORDERING INFORMATION

**Power Input Cables**

Use information below to order 5' power input leads with factory-fitted connectors

MODEL	DESCRIPTION
DPA-A	5' PowerCon to parallel blade U-ground (Edison) connector
DPA-B	5' PowerCon to 20A two-pin and ground (stage pin) connector
DPA-C	5' PowerCon to grounded 20A twistlock connector
DPA-X	5' PowerCon to bare-end power input lead

**Power Thru Jumpers**

Note: Power thru jumpers connect to fixture's output (thru) connector to provide link to successive fixtures

MODEL	DESCRIPTION
DPJ-5	5' PowerCon-to-PowerCon fixture-to-fixture jumper
DPJ-10	10' PowerCon-to-PowerCon fixture-to-fixture jumper

**Diffusers**

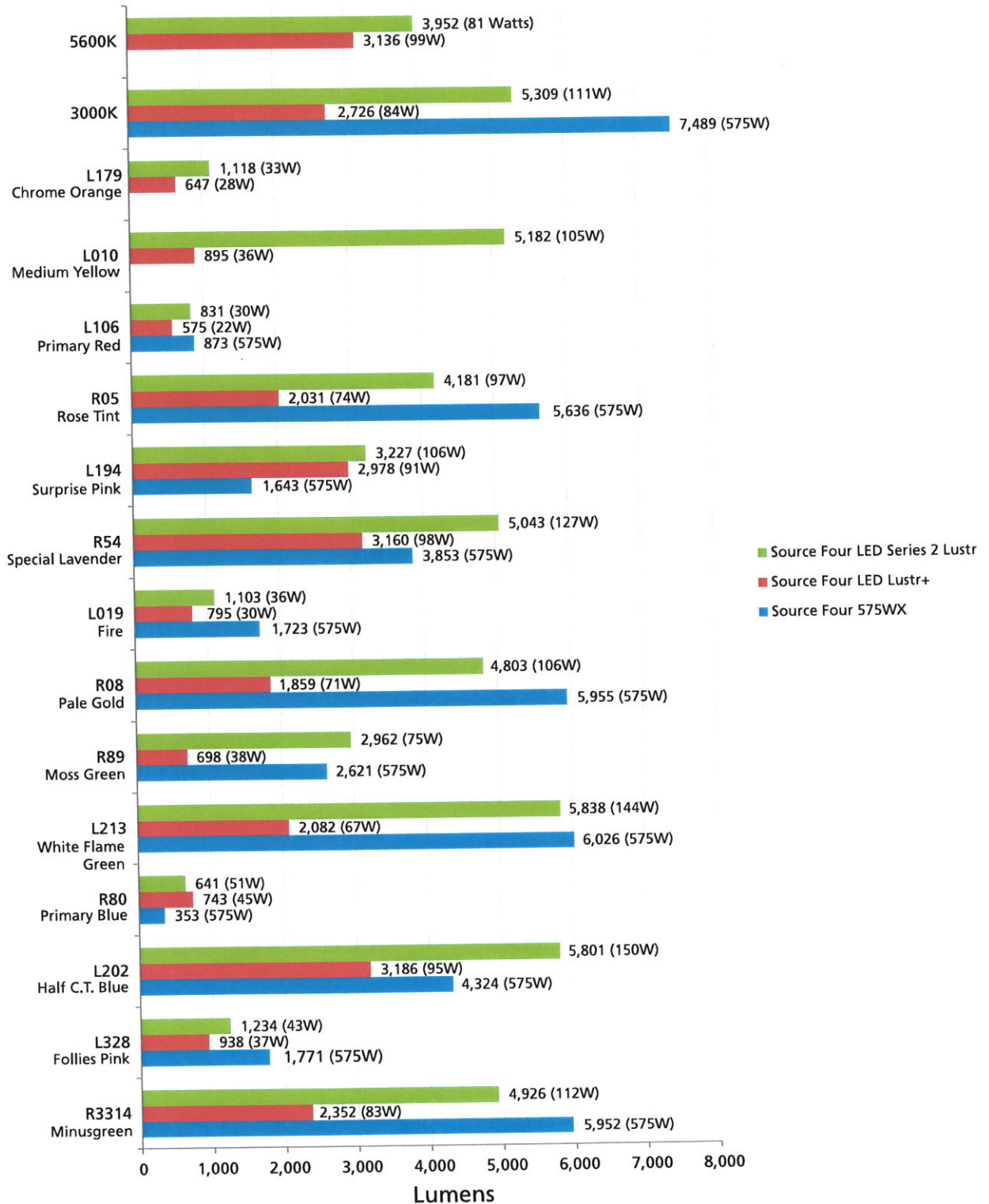
MODEL	DESCRIPTION
S4LED-SFD	Source Four LED - Soft Focus Diffuser (included)
S4LED-SWD6	Source Four LED - Smooth Wash Diffuser for 6.25" gel frame slots
S4LED-SWD7	Source Four LED - Smooth Wash Diffuser for 7.5" gel frame slots
S4LED-SWD12	Source Four LED - Smooth Wash Diffuser for 10° lens tubes
S4LED-SWD14	Source Four LED - Smooth Wash Diffuser for 5° lens tubes

The Soft Focus Diffuser fits into a standard A-Size pattern holder and delivers beautiful homogenized light when not in sharp focus. Also, use with patterns for dappled and soft-edge projections.

The Smooth Wash Diffuser is used when extra-smooth blending of multiple Source Four LED fixtures is required. The smooth wash diffuser is placed into the gel-frame slot of the lens tube.

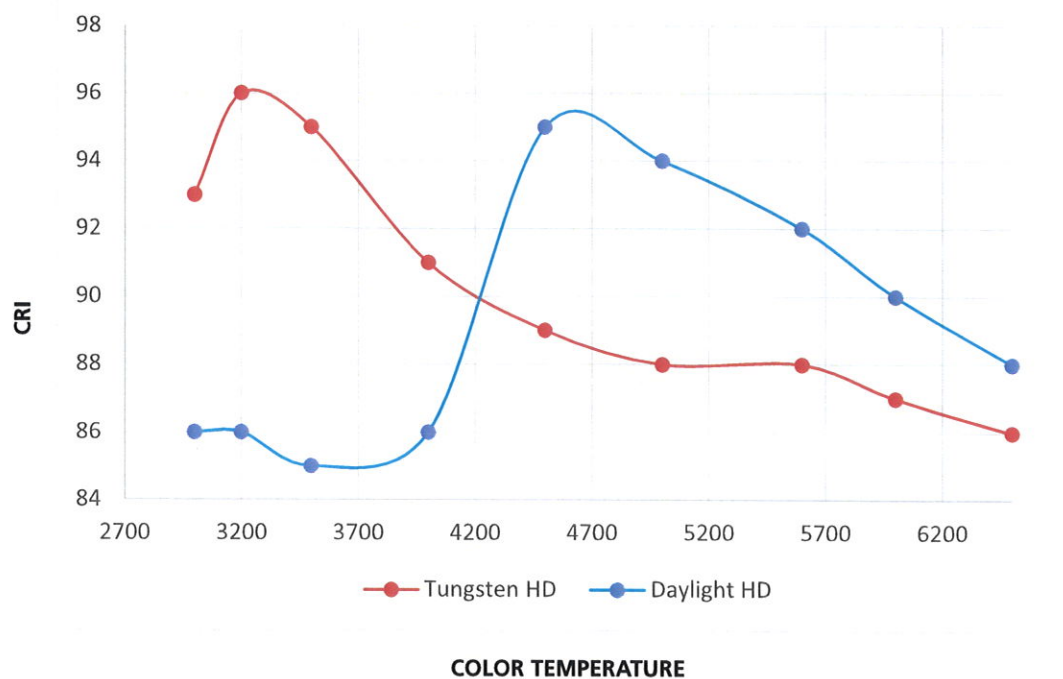
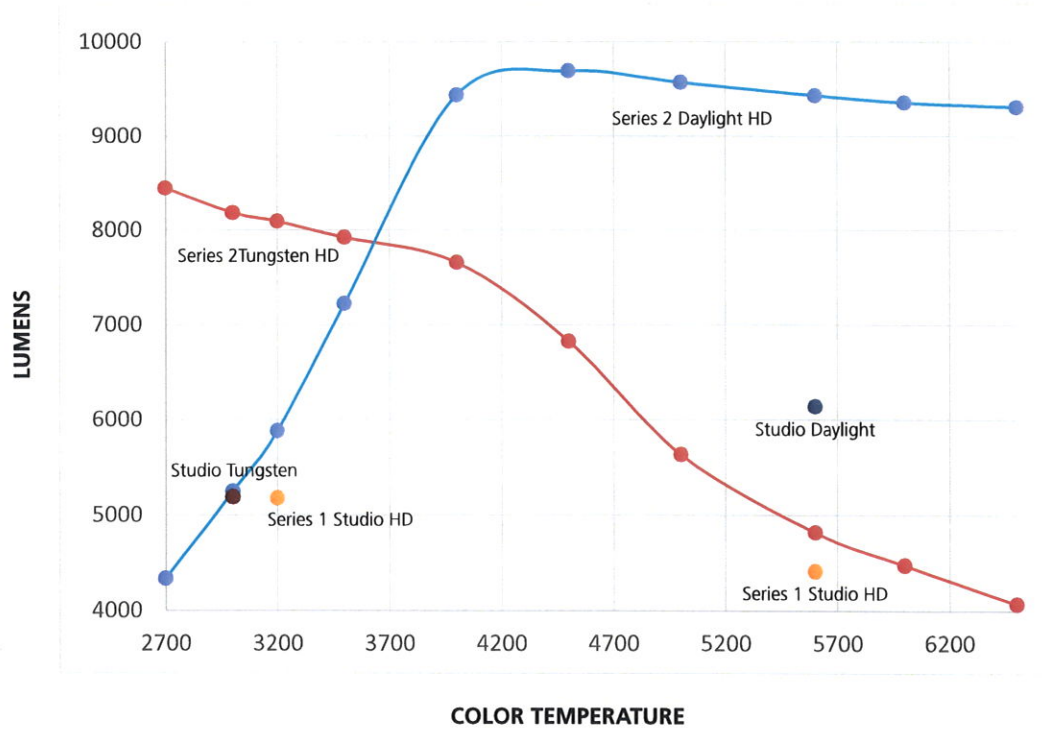
FIXTURE COMPARISON - LUSTR

- The data below was measured on a Source Four LED Series 2 Lustr and a Source Four LED Lustr+, both in Regulated mode. Gel colors shown are standard selections from the Rosco Laboratories Inc. and Lee Filters catalogs. All measurements were taken using a 26-degree EDLT lens tube.



FIXTURE COMPARISON - DAYLIGHT HD AND TUNGSTEN HD

- The data below was measured on a Source Four LED Series 2 Daylight HD and Tungsten HD against a Source Four LED Series 1 Studio HD, Studio Daylight and Studio Tungsten. All in Regulated mode.



PREFERRED LENSING OPTIONS

(Lenses sold separately)

Fixed Beam Lenses

MODEL	DESCRIPTION
LED50LT	LED-specific 50° EDLT with lenses installed
LED50LT-1	LED-specific 50° EDLT (white) with lenses installed
436EDLT	36° EDLT w/lens installed
436EDLT-1	36° EDLT (white) w/lens installed
426EDLT	26° EDLT w/lens installed
426EDLT-1	26° EDLT (white) w/lens installed
419EDLT	19° EDLT w/lens installed
419EDLT-1	19° EDLT (white) w/lens installed
490LT	90° w/lens installed
490LT-1	90° (white) w/lens installed
470LT	70° w/lens installed
470LT-1	70° (white) w/lens installed
414LT	14° w/lens installed
414LT-1	14° (white) w/lens installed
410LT	10° w/lens installed
410LT-1	10° (white) w/lens installed
405LT	5° w/lens installed
405LT-1	5° (white) w/lens installed

Zoom Lens Assemblies

Use with light-engine body models.

MODEL	DESCRIPTION
41530LT	Source Four 15-30° Zoom lens assembly
42550LT	Source Four 25-50° Zoom lens assembly

Power Consumption at Full Capacity

MODEL	VOLTAGE (V)	CURRENT (A)	MAX POWER (W)
Source Four LED Series 2 Lustr	120	1.44	171
Source Four LED Series 2 Tungsten HD	120	1.76	208
Source Four LED Series 2 Daylight HD	120	2.08	246

ADDITIONAL ORDERING INFORMATION

Fixture Accessories

MODEL	DESCRIPTION
400CC	C-Clamp (included)
400SC	Safety Cable
400PH-A	Pattern holder (A size)
400PH-B	Pattern holder (B size)
400PH-G	Glass pattern holder
400RS	Drop-In Iris
400CF	Color frame (6.25")
407CF	7.5" square color frame
400DN	Donut
400TH	Top Hat
400HH	Half Hat
DPSJ-X	25' PowerCon to Edison input power cable with inline switch

NOTES ABOUT LED LUMINAIRES

All LED sources experience some lessening of light output and some color shift over time. LED output will vary with thermal conditions. Based on the LED manufacturer's B50 L70 specification, a Source Four LED Series 2 luminaire will achieve ~70% of its initial output after 54,000 hours (20,000 hours for Daylight HD and Tungsten HD) of typical usage. In individual situations, LEDs will be used for different durations and at different levels. This can eventually lead to minor alterations in color performance, necessitating slight adjustments to presets, cues or programs.

CRI AND CQS RATINGS

Source Four LED fixtures were evaluated for CRI and CQS performance using measured output spectrum and optimized mix solutions for a best spectral match to black body sources at 3200K and 5600K.

FIXTURE	CRI	CQS	Color Fidelity	Duv
Source Four LED Series 2 Lustr Reg at 3200K	86	88	88	0
Source Four LED Series 2 Lustr Reg at 5600K	90	91	91	0
Source Four LED Series 2 Tungsten HD Reg at 3200K	94	91	91	0.002
Source Four LED Series 2 Daylight HD Reg at 5600K	91	89	88	0.002

All Source Four LED luminaire versions provide excellent color rendering to the eye, particularly at higher color temperature settings, such as 5600K. In most cases, the Duv is 0.000. A Duv rating of 0.000 indicates that the color mix used is exactly on the black body line, with no green or magenta tint.

CONTROL OPTIONS

User settings on Source Four LED Series 2 fixtures allow multiple operational modes and settings for either console operation via DMX protocol or stand-alone operation. The expanded LCD display provides easy navigation to all possible settings and options. Some of the setting options are:

- Multiple DMX choices ranging from a simple RGB profile – which effectively controls all seven LED colors via three channels – to nine-channel ‘direct’ color and intensity control
- Multiple dimming curve options
- Preset colors and sequences for stand-alone (no console required) operation
- White point selection: white light and color behavior based on a specific color-temperature white light, i.e. 3200K, 5600K, etc.
- Loss of data behavior options – instant off, hold last look for two minutes, etc.
- Output modes – three output options that offer you a choice between maximum output and maximum consistency

See the user manual for a complete explanation of all of the control settings and options for the Source Four LED Series 2.

Quick Setups

To assist in managing the numerous control and fixture behavior choices, five combinations of operational settings are available to quickly get started. These settings are specifically created for different applications and are easily accessible at the fixture display. Each setting can then be modified as required to take advantage of all of the possible control features.

Setting Title	Profile	Description	Typical Features*
General	Direct	Factory Default: For general-purpose use, including interior architectural applications	<ul style="list-style-type: none"> <li>• Standard dimming curve</li> <li>• Regulated output for color consistency</li> </ul>
Stage	HSI Plus 7 Enabled	Theatrical lighting: Duplicates the color and dimming behavior of tungsten stage lighting fixtures	<ul style="list-style-type: none"> <li>• Incandescent dimming curve</li> <li>• Regulated output for color consistency</li> <li>• 3200K white-point setting</li> </ul>
XT Arch	HSI	Exterior architectural lighting: Provides a high degree of color consistency in high ambient temperature environments	<ul style="list-style-type: none"> <li>• Standard dimming curve</li> <li>• Protected output</li> <li>• 3200 white-point setting</li> </ul>
High Impact	RGB	Event lighting: Enables quickest response, simple RGB control and strobe channel for maximum effect usage	<ul style="list-style-type: none"> <li>• Quick dimming curve</li> <li>• Boost mode for maximum intensity</li> <li>• 5600K white-point setting</li> </ul>
Studio	Studio	Studio factory default: Enables three-parameter control of white light (intensity, white point, and tint) via DMX from console or console-free from fixture display	<ul style="list-style-type: none"> <li>• Linear dimming curve</li> <li>• Regulated output mode for color consistency</li> </ul>

\*See user manual for complete list of features for each Quick Setup

LUSTR CONTROL OPTIONS

DMX Input Channel Profiles

DMX Profile	DMX Channels	Channel Assignments	Notes
Direct	10	1 – Red 2 – Lime 3 – Amber 4 – Green 5 – Cyan 6 – Blue 7 – Indigo 8 – Intensity 9 – Strobe 10 – Fan Control	Direct control of each individual color with a separate master-intensity channel. Color calibration of LEDs is not active in this mode. This profile will produce additive color crossfades.
HSI	6	1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – Fan Control	High-resolution hue (two channels), saturation, and intensity control. HSI mode will produce color crossfades around the color space.
HSIC	7	1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – Fan Control 7 – Color Point (CCT)	High-resolution hue, saturation and intensity control as above, with the addition of a color-point channel to adjust the color temperature of the fixture in both white light and color. Color crossfade performance is the same as HSI.
RGB	6 (Ch. 4 not used)	1 – Red 2 – Green 3 – Blue 4 – n/a 5 – Strobe 6 – Fan Control	Effectively addresses all seven colors via three channels of control. RGB profile will produce additive color crossfades.
Studio	6 (Ch. 4 not used)	1 – Intensity 2 – Color Point (CCT) 3 – Tint 4 – n/a 5 – Strobe 6 – Fan Control	Controls fixture as a white light unit. If no DMX, (console input, for example), is present, the fixture can be adjusted for these three parameters on the user interface at the back of the unit.
Additional profile options			
Plus 7		Seven additional color-control channels are available in RGB, HSI and HSIC input-profile settings. For example, HSI with ‘Plus 7’ enabled becomes a 15-channel profile:	
		1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – Fan Control 7 – n/a 8 – Plus 7 Control on/off 9 – Red 10 – Lime 11 – Amber 12 – Green 13 – Cyan 14 – Blue 15 – Indigo	<p>The desired color and intensity is achieved by using the HSI or RGB channels</p> <p>Placing channel eight at a value over 51% gives the fixture a 15-channel profile</p> <p>Channels 9-15 represent the native colors of the fixture and allow the operator to adjust individual color channels to fine tune the color output</p>
Strobe		Variable strobe control: 0% is no strobe. The fixture output will strobe more rapidly as the strobe channel value approaches 100%.	

DAYLIGHT HD CONTROL OPTIONS

DMX Input Channel Profiles

DMX Profile	DMX Channels	Channel Assignments	Notes
Studio	6 (Ch. 4 not used)	1 – Intensity 2 – Color Point (CCT) 3 – Tint 4 – n/a 5 – Strobe 6 – Fan Control	Controls fixture as a white light unit. If no DMX, (console input, for example), is present, the fixture can be adjusted for these three parameters on the user interface at the back of the unit.
Direct	10	1 – Red 2 – Mint 3 – Blue 4 – Indigo 5 – Intensity 6 – Strobe 7 – Fan Control	Direct control of each individual color with a separate master-intensity channel. Color calibration of LEDs is not active in this mode. This profile will produce additive color crossfades.
HSI	6	1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – Fan Control	High-resolution hue (two channels), saturation, and intensity control. HSI mode will produce color crossfades around the color space.
HSIC	7	1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – Fan Control 7 – Color Point (CCT)	High-resolution hue, saturation and intensity control as above, with the addition of a color- point channel to adjust the color temperature of the fixture in both white light and color. Color crossfade performance is the same as HSI.
RGB	6 (Ch. 4 not used)	1 – Red 2 – Green 3 – Blue 4 – n/a 5 – Strobe 6 – Fan Control	Effectively addresses all seven colors via three channels of control. RGB profile will produce additive color crossfades.

Additional profile options

Plus 7	Seven additional color-control channels are available in RGB, HSI and HSIC input-profile settings. For example, HSI with 'Plus 7' enabled becomes a 15-channel profile:	<p>1 – Intensity 2 – Color Temp 3 – Tint 4 – NA 5 – Strobe 6 – Fan 7 – NA 8 – Plus 7 Control on/off 9 – Red 10 – NA 11 – Mint 12 – Blue 13 – Indigo 14 – NA 15 – NA</p> <p>The desired color and intensity is achieved by using the HSI or RGB channels</p> <p>Placing channel seven at a value over 51% gives the fixture a 15-channel profile</p> <p>Channels 9-15 represent the native colors of the fixture and allow the operator to adjust individual color channels to fine tune the color output</p>
Strobe	Variable strobe control: 0% is no strobe. The fixture output will strobe more rapidly as the strobe channel value approaches 100%.	

TUNGSTEN HD CONTROL OPTIONS

DMX Input Channel Profiles

DMX Profile	DMX Channels	Channel Assignments	Notes
Studio	6 (Ch. 4 not used)	1 – Intensity 2 – Color Point (CCT) 3 – Tint 4 – n/a 5 – Strobe 6 – Fan Control	Controls fixture as a white light unit. If no DMX, (console input, for example), is present, the fixture can be adjusted for these three parameters on the user interface at the back of the unit.
Direct	10	1 – Red 2 – Red Orange 3 – Mint 4 – Blue 5 – Indigo 6 – Intensity 7 – Strobe 8 – Fan Control	Direct control of each individual color with a separate master-intensity channel. Color calibration of LEDs is not active in this mode. This profile will produce additive color crossfades.
HSI	6	1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – Fan Control	High-resolution hue (two channels), saturation, and intensity control. HSI mode will produce color crossfades around the color space.
HSIC	7	1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – Fan Control 7 – Color Point (CCT)	High-resolution hue, saturation and intensity control as above, with the addition of a color- point channel to adjust the color temperature of the fixture in both white light and color. Color crossfade performance is the same as HSI.
RGB	6 (Ch. 4 not used)	1 – Red 2 – Green 3 – Blue 4 – n/a 5 – Strobe 6 – Fan Control	Effectively addresses all seven colors via three channels of control. RGB profile will produce additive color crossfades.

Additional profile options

Plus 7	Seven additional color-control channels are available in RGB, HSI and HSIC input-profile settings. For example, HSI with 'Plus 7' enabled becomes a 15-channel profile:	<p>1 – Intensity 2 – Color Temp 3 – Tint 4 – NA 5 – Strobe 6 – Fan 7 – NA 8 – Plus 7 Control on/off 9 – Red 10 – Orange 11 – Mint 12 – Blue 13 – Indigo 14 – NA 15 – NA</p> <p>The desired color and intensity is achieved by using the HSI or RGB channels</p> <p>Placing channel seven at a value over 51% gives the fixture a 15-channel profile</p> <p>Channels 9-15 represent the native colors of the fixture and allow the operator to adjust individual color channels to fine tune the color output</p>
Strobe	Variable strobe control: 0% is no strobe. The fixture output will strobe more rapidly as the strobe channel value approaches 100%.	

PHOTOMETRY

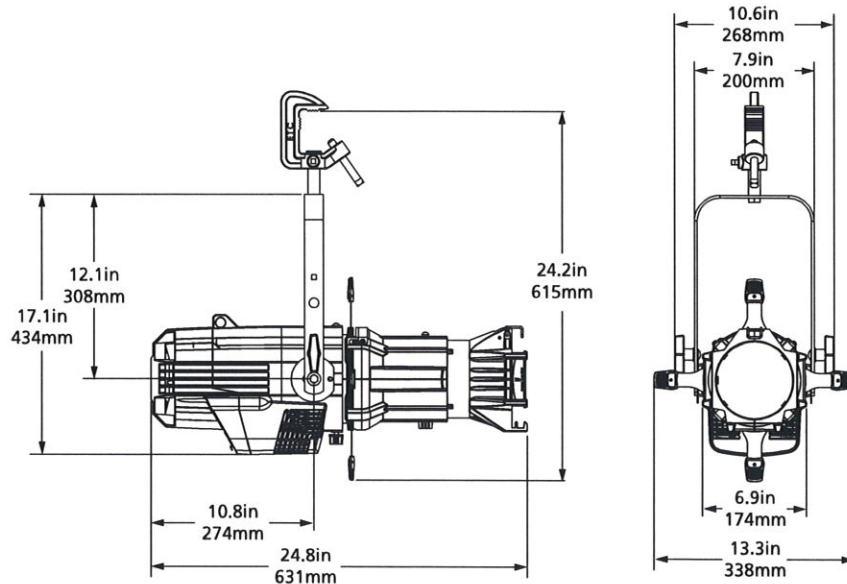
The Source Four LED Photometry Guide and complete IES photometry data files may be downloaded from the ETC website. Go to <http://www.etconnect.com>

PHYSICAL

Source Four LED Series 2 Weights and Dimensions

	WEIGHT*		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
With Barrel	18.3	8.3	28	12.7
Without Barrel	14.3	6.5	23	10.4

\*Does not include mounting hardware or lens tube







## COLORdash Par Q12 IP

COLORdash Par-Q12IP delivers an intense and beautiful RGBA LED wash in any weather condition. An OLED full text display is easy to navigate and direct IP rated connections for power and DMX make setup a breeze.



### At a Glance

- Rugged RGBA LED wash for events where indoor/outdoor flexibility is needed
- At home in any weather conditions with IP rated power and DMX connections
- Adjustable PWM (Pulse Width Modulation) to avoid flickering on camera
- Selectable, smooth dimming curves for eliminate flicker and choppiness in fades
- Easy to read OLED display with password protection and touchscreen interface
- Advanced optics provide exceptional color mixing and high efficiency
- Double-bracket yoke doubles as floor stand

# Specifications

## Optical

- Light Source: 12 LEDs (quad-color RGBA) 8.4 W, (764 mA), 50,000 hours life expectancy
- Color Temperature (range): 2800 to 10000 K
- Installed Optics: 24°
- Beam Angle: 20°
- Field Angle: 35°
- Illuminance: 865 lux @ 5 m
- PWM Frequency: 2000 Hz

## Construction / Physical

- Dimensions: 12.3 x 11.9 x 6.9 in (322 x 305 x 177 mm)
- Weight: 13.4 lb (6.1 kg)
- Exterior Color: BLACK
- Housing Material: Aluminum die-cast

## Control

- Control Protocol: DMX
- DMX Channels: 4, 6 or 11
- Modes/Personalities: 3 personalities (4ch, 6ch, 11ch)

## Certifications / Qualifications

- CE, MET
- IP Rating: IP65, outdoor/wet, with pressure equalizing M12 GORE® valve

## What's Included

- COLORdash Par Q12IP
- Seetronic Powerkon IP65 power cord
- Gel frame

## Dynamic Effects

- Dimmer: Electronic
- Strobe Rate: 0 to 30 Hz
- Standalone Color Mixing: Yes
- Color Temperature Presets: Yes
- Dim Modes: 4
- Built-in Automated Programs: Yes

## Connections

- Power Connection: Edison (Local) plug to Seetronic Powerkon IP65
- Power Input: Seetronic Powerkon IP65
- Power Output: Seetronic Powerkon IP65
- Data Connectors: 5-pin IP65 XLR
- Cable Length (power): 5 ft (1.5 m)

## Electrical

- Input Voltage: 100 to 240 VAC, 50/60 Hz (auto-ranging)
- Power Linking: 13 units @ 120 V; 23 units @ 208 V; 25 units @ 230 V
- Power and Current: 118 W, 0.99 A @ 120 V, 60 Hz
- Power and Current: 115 W, 0.58 A @ 208 V, 60 Hz
- Power and Current: 115 W, 0.53 A @ 230 V, 50 Hz

## Optional Accessories

- Professional Clamps: CTC-50HC, CTC-50HCN
- Seetronic Powerkon power linking cables
- 5-pin IP or Non-IP DMX Cables

# CycFX 8™

All the amazing features and performance of the award winning Robe LEDWash luminaires in a 1000 mm moving linear strip.

An array of individually controlled 15W RGBW LED modules equally spaced along the strip with fully adjustable zoom from 8-67 degrees. The strip itself has a very fast 270 degree tilt movement which can be precision indexed or programmed to produce rapid sweeping movements. Pre-programmed colour macros and pixel control makes this fixture quick and easy to programme. Tungsten lamp emulation and fade effects at 2700 K and 3200 K are included. Wireless technology CRMX is available as an option.

**Light source**

8x15 RGBW LED multichips

**Light output**

2.295 lux @ 5 m /2.420 lm

**Zoom range**

8° - 67°

**Effects**

sun strip effects, pixel control, pre-programmed colours and whites

# Technical Specification

## SOURCE

- Light Source: 8x 15W RGBW LED multichips
- Led Life Expectancy: minimum 60.000 hours
- Typical Lumen Maintenance: 70% @ 60.000 hours

## OPTICAL SYSTEM AND EFFECTS

- High efficient component optics
- Linear motorized zoom: 8° - 67°
- RGBW colour mixing
- Individual control of each RGBW pixel
- Variable CTO
- Virtual colour wheel with pre-programmed 237 colours including whites (2700 K, 3200 K, 4200 K, 5600 K and 8000 K)
- Tungsten lamp effect at whites 2700 K and 3200 K (red shift and thermal delay during dimming)
- Colour rainbow effect with variable speed
- Pre-programmed pixel effects with colour, dimming and strobe chases, waves and pulses at variable speed and directions
- High resolution dimmer 0-100%
- Strobe effect with variable speed (max.20 flashes per second)
- Pre-programmed random strobe & pulse effects

## ELECTROMECHANICAL EFFECTS

- Motorized zoom
- Tilt movement range: 270°

## CONTROL AND PROGRAMMING

- Setting & Addressing: two-row LCD display & 4 control buttons
- Protocols: USITT DMX-512, RDM
- Optional wireless version available: CRMX™ technology from Lumen Radio
- Control channels: 14, 21, 45, 53
- 4 DMX protocol modes, including SunStrip emulation mode (halogen strip)
- 1 editable program up to 40 steps
- Stand-alone operation
- Tilt resolution: 8 or 16 bit
- Zoom: 8 or 16bit
- R,G,B,W colours: 8 or 16 bit
- Dimmer: 8 or 16bit
- Data in/out: Locking 3-pin & 5-pin XLR
- Power in/out: Neutrik PowerCon
- Built-in analyser for easy fault finding

## THERMAL SPECIFICATION

- Maximum ambient temperature: 45 °C (104 °F)
- Maximum surface temperature: 100 °C (212 °F)

## ELECTRICAL SPECIFICATION

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: 150 W at 230 V / 50 Hz

## APPROVALS

- CE Compliant
- cETLus Compliant

## MECHANICAL SPECIFICATION

- Height: 230 mm (9.1") - head in vertical position
- Width: 999 mm (39.3")
- Depth: 180 mm (7.1")
- Weight: 12.4 kg (27.3 lbs)

## RIGGING

- Mounting points: 3 pairs of ¼-turn locks
- 2 x Omega bracket with ¼-turn quick locks
- 2 x safety attachment points





Combinación de comodidad avanzada y diseño medioambiental

## Monitor LCD panorámico de 22 pulgadas HP Compaq LA2205wg

Cambie la forma de ver su trabajo con el nuevo diseño de monitor LCD panorámico HP Compaq LA2205wg de 22" energéticamente eficaz, que ayuda a incrementar la productividad y reducir los costes a través de diseño avanzado cómodo y medioambiental.

### Trabajo inteligente, no duro

Siéntese y encuentre la posición del monitor que le resulte cómoda con el ajuste de inclinación de 35°, el giro de cabeza pivotante, giro y más de 4.5 pulgadas de ajuste de altura desde la superficie del escritorio. Puede encontrar un lugar en su escritorio idóneo para sus necesidades si su estatura no es muy alta o tiene que mirar con lentes bifocales, trifocales o progresivas. Una colocación baja es también perfecta para niños en instalaciones educativas. Si es de mayor altura y quiere tener una máxima comodidad para su cuello y espalda, añada simplemente un elevador al soporte. Además, un nivel de contraste dinámico de 3000:1, resoluciones nítidas de 1680 x 1050 y un tiempo de respuesta rápido de 5 ms<sup>1</sup> todo proporciona una vista excepcional de su trabajo mientras que las entradas DVI compatibles con VGA y HDCP, DisplayPort y USB integrado facilitan y aceleran la conectividad avanzada.

### Funciones de ahorro de energía

El HP Compaq LA2205wg tiene calificación ENERGY STAR®<sup>2</sup>, tiene una puntuación EPEAT™ Oro, cuenta con certificación TCO 5.0 y con muchas otras funciones como: una alternativa de embalaje que utiliza materiales con un menor impacto medioambiental que los acolchados EPS; consumo energético minimizado mediante el uso del panel de alimentación bajo; una reducción del 50% de mercurio en comparación con

modelos de generaciones anteriores; Un panel sin BFR y PVC, cubierta y lámina metálica; panel sin arsénico.

### Personalización con varias opciones

HP ofrece varios productos opcionales (cada uno se vende aparte) para ayudarle a sacar el máximo provecho de su inversión, incluido: HP Quick Release; soporte HP IWC integrado para vender una solución integral con un PC de sobremesa HP Compaq dc7900 ultradelgado o Thin Client de HP (se venden aparte); barra de altavoces HP; adaptador de gráficos USB HP

### Relax con fiabilidad HP

Sus necesidades de negocio están cubiertas con Compaq LA2205wg. Cada monitor dispone de una garantía limitada de tres años respaldada por el soporte técnico de HP y es compatible con productos de negocio HP.



# Monitor LCD panorámico de 22 pulgadas HP Compaq LA2205wg

Tipo	TN; Revestimiento antirreflectante y antiestático
Tubo de imágenes	22 pulgadas panorámica
Área de imagen visualizable	22 pulgadas en diagonal
Ángulo de visualización	160° horizontal, 160° vertical
Brillo	250 nits
Relación de contraste	1000:1
Índice de respuesta	5ms (encen./apag.)
Densidad de punto/pixel	0,282 mm
Frecuencia	Frecuencia horizontal: de 24 a 83 kHz (entrada VGA) Frecuencia vertical: de 50 a 76 Hz (entrada VGA);
Resolución recomendada	Modos VESA predefinidos (sin entrelazado): 640 x 480 a 60 Hz, 800 x 600 a 60 Hz, 1024 x 768 a 60 Hz, 1280 x 960 a 60 Hz, 1280 x 1024 a 60 Hz, 1440 x 900 a 60 Hz, 1600 x 1000 a 60 Hz, 1600 x 1200 a 60 Hz, 1680 x 1050 a 60 Hz Modo de texto: 720 x 400 a 70 Hz
Señal de entrada	Conectores DisplayPort, VGA, DVI-D y compatibilidad HDCP
Cable de vídeo	VGA, DVI-D, USB, DisplayPort
Mandos de usuario (presentación en pantalla)	Brillo, contraste, posicionamiento, temperatura del color (6500k, 9300k, personalizado), control del color individual, número de serie, pantalla, reloj, fase del reloj, gestión del monitor, reinicio con los valores de fábrica
Características básicas	Capacidad de inclinación: de -5° a +35° de inclinación vertical, ángulo giro: de -170° a +170°, ajuste de altura: 120 mm, rotación del eje: 90° en orientación vertical, base: unida
Hub USB 2.0 autoalimentado	Hub USB 2.0: Autoalimentación un puerto de salida, dos de entrada (cable incluido)
Software	El software HP Display Assistant es una utilidad con funciones antirrobo, ajuste del monitor, calibración del color y gestión de la seguridad mediante el protocolo Display Data Channel Interface (DDC/CI) de la PC de escritorio conectada. El software Pivot Pro ahora integrado en el asistente HP Display interactúa con el controlador nativo de gráficos de su PC para redibujar la pantalla vertical uniformemente con un sencillo clic del ratón o un comando del teclado. Pivot Pro admite vistas horizontales y verticales de 90 grados. HP Display LiteSaver permite programar el modo de reposo para ayudarle a proteger el monitor contra retención de imágenes, reducir drásticamente el consumo de energía y sus costos y ampliar la vida útil del producto. Soporte disponible en inglés, japonés, francés, alemán, español, italiano y chino tradicional o simplificado.
Consumo energético	35 vatios máximo, 25 vatios típica
Fuente de alimentación	Detección automática, 100 a 240 VCA +/-10%
Consumo de energía, en estado de espera	1 vatios
Dimensiones (An x F x Al)	51,1 x 6,2 x 33,3 cm
Peso	6,8 kg
Certificaciones, conformidad	Pantallas TCO 5.0, ISO 9241-3xx, requisitos CISPR, aprobaciones VCCI, certificados KC y KCC (coreanos), CSA 60950-1, UL 60950-1, EN55022 Clase B, CNS 13438 Clase B, IEC 60950-1, China Energy Label (CEL) Grade 1, MEPS de China, MEPS de Corea Energy Boy, SmartWay (sólo Norteamérica), Energy logistics, aprobación EUP Lot 6 Tier 1 AS/NZS 3548 Clase B, marca "GS", aprobaciones TUV, GEEA, marca CE, aprobación FCC Parte 15 clase B, calificación ENERGY STAR®, EN55024 Clase B, EN60950 -1, CUL, CCIB, CCEE, IT ECO (EDS), EPEAT™ Oro (algunas regiones)
Garantía	Garantía limitada de tres años en piezas, mano de obra y servicio en casa del cliente, incluida la retroiluminación. La disponibilidad varía dependiendo de la región. Son aplicables determinadas restricciones y exclusiones. Para obtener más detalles, póngase en contacto con el servicio de atención al cliente o el soporte de HP

<sup>1</sup> Todas las especificaciones en cuanto a rendimiento representan las especificaciones características facilitadas por los fabricantes de componentes de HP el rendimiento real puede variar por encima o por debajo del valor. La información aquí contenida está sujeta a cambios sin previo aviso

<sup>2</sup> Con anterioridad a la fecha efectiva de 31 de octubre de 2009.

Para obtener más información, visite [www.hp.com/eur/monitors](http://www.hp.com/eur/monitors)



# Monitor LCD panorámico de 22 pulgadas HP Compaq LA2205wg

## Accesorios y servicios recomendados

### Base de centro de trabajo integrado HP



Conecte con facilidad un monitor LCD de HP de 17, 19 o 22 pulgadas y un PC de sobremesa ultradelgado HP Compaq dc7800 o un Thin Client en una sola base para la comodidad de un formato "todo en uno"<sup>3</sup> para obtener la configuración exacta que necesita.

Nº de producto: GN783AA

### Barra altavoces LCD de HP



Conéctela sin problemas en el panel frontal del monitor para obtener prestaciones multimedia como altavoces estéreo con gama de sonido completa y un conector externo para los auriculares.

Nº de producto: NQ576AA

### Monitor LCD de fácil montaje



Una solución de montaje seguro y fácil de usar para monitores de pantalla plana HP Thin Client, compatibles VESA, y otros productos de sobremesa HP. Conecte cualquiera de ellos a una base, a un soporte normal o a uno de pared si desea ahorrar espacio.

Nº de producto: EM870AA

### Bloqueo mediante cable de seguridad HP Kensington MicroSaver



Este práctico dispositivo de cerradura con cable le proporciona una tranquilidad inmediata, porque se fija al hardware y luego en un punto de sujeción del espacio de trabajo para garantizar que el hardware no se mueva de su sitio.

Nº de producto: PC766A

### 5 años soporte HW, respuesta in situ siguiente día laborable



Obtenga para el hardware que le haya fallado una reparación presencial al día siguiente laborable por un técnico cualificado de HP si el problema no se puede resolver a distancia.

Nº de producto: U7937E

<sup>3</sup> Las unidades se venden aparte.

Para obtener más información, visite [www.hp.com/eur/hpoptions](http://www.hp.com/eur/hpoptions)

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4AA2-8379ESE. Octubre 2009





# digileD DPP

## Lightweight LED Panels



digileD  
THE LED SCREEN EXPERTS



Ingenious lightweight modules formed from a polymer nano-material weighing in at just over 20Kg per sqm and utilising single bin/batch LEDs, MBI driver ICs and Neutrik etherCON/powerCON True1 connectors. With a range of accessories including variable angle couplers (VAC) for convex/concave screens, corner LED tiles for true right angled connections, triangle & rounded cornered tiles and the ability to use as an LED dance floor, banner system or stacked/hung screens.

Fully TUV CE certified and protected up to IP65, DPP is the most creative and flexible LED screen system on the market.

Contact T +44 0 20 7381 7840 info@digileD.com www.digileD.com

# MODULE SPECIFICATIONS - digiLED DPP OUTDOOR

	DPP 48100BF	DPP 48100	DPP 59500	DPP 62500	DPP 78100	DPP 89300	DPP 100
<b>LEDs</b>							
LEDs Per Pixel				1R1G1B			
Red Wavelength (Dominant)	nm			620			
Green Wavelength (Dominant)	nm			520			
Blue Wavelength (Dominant)	nm			465			
<b>PIXELS</b>							
Pixel Configuration	1818	1818	2828	2828	3535	3535	3535
LED Face Colour	Total Black	Total Black	Black Body	Black Body	Black Body	Black Body	Black Body
LEDs Per Area	129,792	129,792	84,672	84,672	49,152	37,632	27,648
Physical Pixel Pitch	mm	4.8077	5.9524	6.25	7.8125	8.9286	10.4167
Physical Pixel Resolution (Width)	pixels	104	84	80	64	56	48
Physical Pixel Resolution (Height)	pixels	104	104	84	64	56	48
Physical Pixel Resolution (Total)	pixels	10,816	10,816	7,056	4,096	3,136	2,304
Physical Pixels Per Area	pixels/m <sup>2</sup>	43,264	43,264	28,224	16,384	12,544	9,216
<b>MODULE</b>							
Standard Active Module Width	mm						
Standard Active Module Height	mm						
Standard Active Module Area	m <sup>2</sup>						
Module Depth	mm						
Module Weight	kg	6.4	6.4	5.8	6	6	6
LED Tile Width	mm						
LED Tile Height	mm						
Viewing Angle - Horizontal	degrees						
Viewing Angle - Vertical	degrees						
Ingress Protection (Front)							
Ingress Protection (Back)							
Surface Finish							
LED Fixings							
Storage Temperature Range	degree C						
Operating Temperature Range	degree C						
Operating Humidity Range	%						
<b>COUPLING DEVICES</b>							
Straight coupler Height	mm						
Straight coupler Width	mm						
Straight coupler Depth	mm						
Straight coupler Weight	grammes						
Variable angle coupler Height	mm						
Variable angle coupler Width	mm						
Variable angle coupler Depth	mm						
Variable angle coupler Max angle	degrees						
Variable angle coupler Weight	grammes						
Hanging bar Width	mm						
Hanging bar Depth	mm						
Hanging bar Height	mm						
Hanging bar Weight	kg						
<b>COLOUR</b>							
Processing Depth colours							
Refresh Rate	Hz						
<b>BRIGHTNESS</b>							
Brightness	nits	>5,500	>4,500	>5,500	>5,500	>5,500	>5,500
Brightness Control							
<b>POWER</b>							
Input Voltage	VAC						
Input Power (Average)	watts/m <sup>2</sup>	240	200	280	260	180	320
Input Power (Maximum)	watts/m <sup>2</sup>	720	600	840	760	520	960
<b>OTHER</b>							
Lifespan	hours						
Computer System Type							
Video Input							
Connection Method							
Connectors							
Control System							
Certification							
Typical average malfunction rate	per dot/panel						
All specifications are correct at time of print, however they are liable to change and should be confirmed at point of order.							



# MODULE SPECIFICATIONS - digiLED DPP INDOOR

	DPP 2840	DPP 3125	DPP 3910	DPP 4400	DPP 4810	DPP 5200
<b>LEDs</b>						
LEDs Per Pixel			1R1G1B			
Red Wavelength (Dominant)	nm		620			
Green Wavelength (Dominant)	nm		520			
Blue Wavelength (Dominant)	nm		465			
<b>PIXELS</b>						
Pixel Configuration	SMD2020	SMD2020	SMD2020	SMD2020	SMD2020	SMD3528
LED Face Colour	371,712	307,200	196,608	150,528	129,792	110,592
LEDs Per Area	2,8409	3,125	3,9063	4,4643	4,8077	5,2083
Physical Pixel Pitch	mm	160	128	112	104	96
Physical Pixel Resolution (Width)	pixels	176	128	112	104	96
Physical Pixel Resolution (Height)	pixels	176	128	112	104	96
Physical Pixel Resolution (Total)	pixels	30,976	25,600	16,384	12,544	9,216
Physical Pixels Per Area	pixels/m2	123,904	102,400	65,536	50,176	36,864
<b>MODULE</b>						
Standard Active Module Width	mm	500				
Standard Active Module Height	mm	500				
Standard Active Module Area	m2	0.25				
Module Depth	mm	73				
Module Weight	kg	5.9	5.8	5.7	5.7	5.9
LED Tile Width	mm					
LED Tile Height	mm					
Viewing Angle - Horizontal	degrees	160	160	160	160	160
Viewing Angle - Vertical	degrees	140	120	120	120	120
Ingress Protection (Front)						
Ingress Protection (Back)						
Surface Finish						
LED Fixings						
Storage Temperature Range	degree C					
Operating Temperature Range	degree C					
Operating Humidity Range	%					
<b>COUPLING DEVICES</b>						
Straight coupler Height	mm					
Straight coupler Width	mm					
Straight coupler Depth	mm					
Straight coupler Weight	grammes					
Variable angle coupler Height	mm					
Variable angle coupler Width	mm					
Variable angle coupler Depth	mm					
Variable angle coupler Max angle	degrees					
Variable angle coupler Weight	grammes					
Hanging bar Width	mm					
Hanging bar Depth	mm					
Hanging bar Height	mm					
Hanging bar Weight	kg					
<b>COLOUR</b>						
Processing Depth colours						
Refresh Rate	Hz					
<b>BRIGHTNESS</b>						
Brightness	nits	>1,000	>1,000	>1,000	>1,000	>1,000
Brightness Control						
<b>POWER</b>						
Input Voltage	VAC					
Input Power (Average)	watts/m2	160	140	160	160	140
Input Power (Maximum)	watts/m2	480	400	480	480	400
<b>OTHER</b>						
Lifespan	hours					
Computer System Type						
Video Input						
Connection Method						
Connectors						
Control System						
Certification						
Typical average malfunction rate	per dot/panel					
All specifications are correct at time of print, however they are liable to change and should be confirmed at point of order.						



**digiLED**

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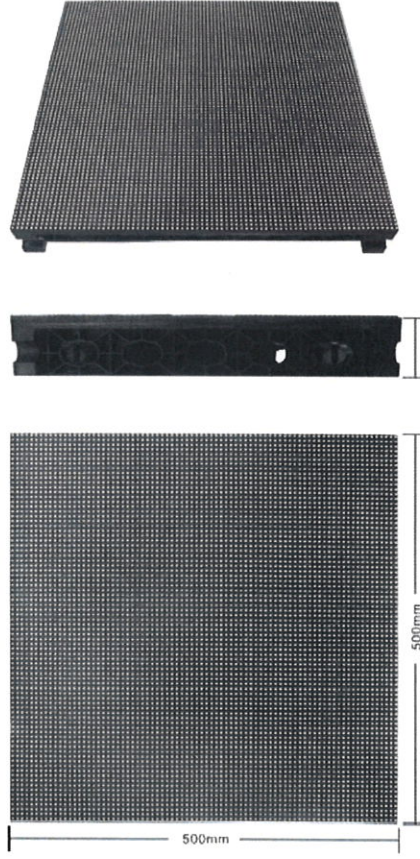
## Introducing the digiLED Lightweight screen system

For ultra lightweight applications, the digiLED DPP LED display system is a fast rig/derig solution for the rental market. Easy, no-tool installation makes it ideal for event application.

If you have to make alterations to the screen, then a module can be quickly withdrawn or replaced in under one minute.

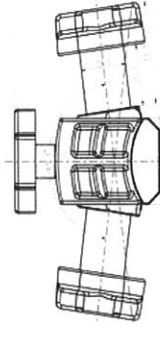
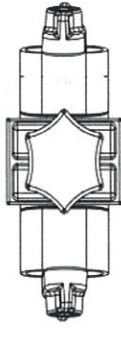
DPP has the ability to curve in any direction (convex or concave) up to 15 degrees. Each module has its own in-built power and data connectors and clips for easy storage.

MODULE DIMENSIONS



## All you need for the rental market

- Ultra fast rig/derig of up to 100 modules per hour
- IP65 protection on outdoor range
- Fast maintenance
- Lightweight and slim, to reduce installation costs
- TUV certification (with CE certification pending)
- Nova control system compatible
- Suspend up to 20 modules per 2 columns
- Unique one twist lock mechanism and precision alignment



VARIABLE ANGLE COUPLER (VAC)

LONG STRAIGHT COUPLER showing twist lock

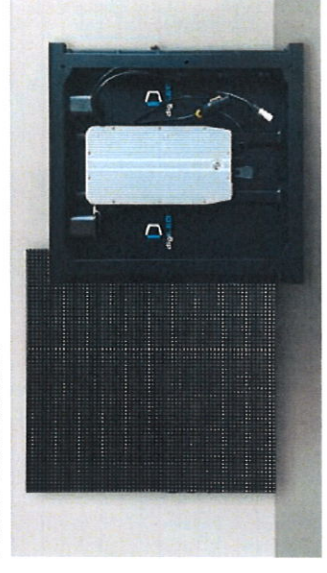
STRAIGHT COUPLER showing twist lock



HANGING BAR



FRONT & REAR VIEW



## Standard system accessories

- Easy coupling straight or variable angle
- In-built Neutrik power and data cables



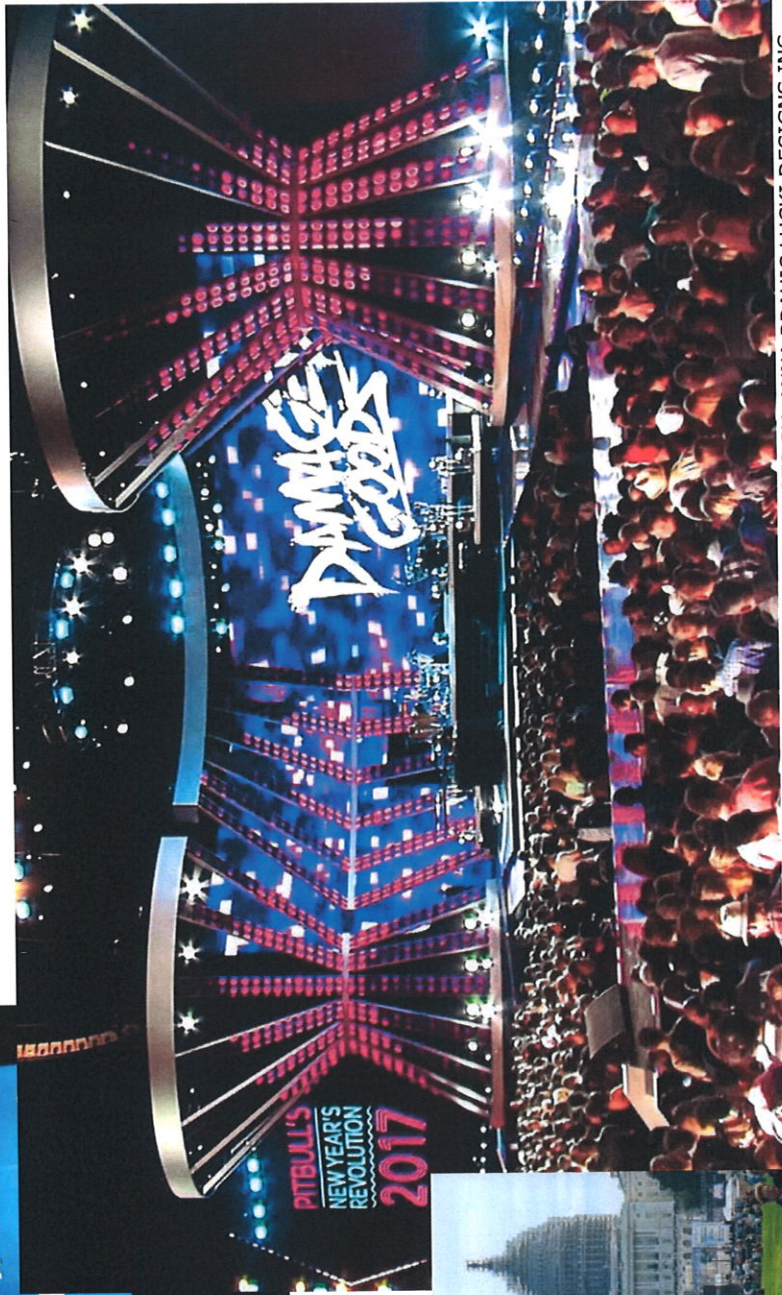


PHOTO BY: ANNA BRAHIC LUCKI DESIGNS INC.



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Stock Code : 871672

## LED DISPLAY

THE LEADER OF LED DISPLAY STANDARDIZATION MANUFACTURING

# MG7 P4.8

## THE MAGIC STAGE SUPREME



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The first edition in 2017



# MG7 P4.8

## The Magic Stage Supreme

### The MG7 Supreme P4.8: Small change, Big difference

MG7 P4.8 is a new member of the supreme upgraded Magic Stage series. It inherited all the advantages of MG5 products, and improved the display effect, bearing capacity and multi-function features. It becomes the most suitable model use for both indoor and outdoor, and can be used for indoor & outdoor dance floor, stadium LED display, sky curtain, normal big LED display (rental & fixing) and many kinds of applications. It is more convenient and efficient when combining with multi-function mounting frame. Meanwhile, with the unique material and structure design, MG7 P4.8 can realize many creative shapes, and make you become a creative winner.



### Function 1:

## Used as Indoor & Outdoor LED Display Perfectly

### 1 Low Brightness with High Gray Scale

The MG7 Supreme P4.8, adopts high refresh & gray IC with S-PWM technology, which has wide current gain, and the brightness can be adjusted among high brightness and low brightness freely without any influence on gray scale. Exclusive customized matte surface 1818 blackface LED with high stability, and handpicking black LED chip, avoid red green and blue partial color phenomena in the response range of 2mA-15mA. Optimizing GAMMA table of control system, and combining the advantages of control system and IC to optimize lamp chip, it can process gray scale meticulously and accurately, which ensures the brightness, contrast ratio and gray scale to maintain the best, colorful, rich and delicate. Only need to turn on the indoor mode when used as indoor LED display, and adjust the brightness to indoor studio mode, meeting mode and show mode, it makes comfortable view with nice color.

Category	MG7 P4.8 High Brightness Blackface LED	MG7 P4.8 Normal Brightness Blackface LED	MG7 P4.8 High Brightness White LED
Brightness standard of indoor & outdoor LED display(cd/m <sup>2</sup> )	800—4500	800—3000	1000—6000

Items	MG7 P4.8	MG7 P5.9
Bearing Capacity	3000kg/0.03m <sup>2</sup> (Max.)	800kg/0.03m <sup>2</sup> (Max.)
Safety	94UL-V0	94UL-V0
Fire Rate	1.3KN	1.3KN
Verical Tensile Force	10m (Suggest)	10m (Suggest)
Height of Hanging	Polymer Nanomaterial	Polymer Nanomaterial
Material of Cabinet	6.5	6.4
Weight/Cabinet	Blackface LEDs 1818	Black Shell LEDs 2828
LED Encapsulation	Compatible for indoor and outdoor	Compatible for indoor and outdoor
Mask	4500±10%cd/m <sup>2</sup> (High brightness)	3000±10%cd/m <sup>2</sup> (Normal Brightness)
White Balance Brightness	6000 : 1	6000±1.0%cd/m <sup>2</sup>
Contrast Ratio	≥160°	4000 : 1
Viewing Angle	8M	≥160°
Min. Viewing Distance	±15° Curving , Dislocation shape	10M
Shape	Indoor & outdoor stage LED display, dance floor, stadium LED display, sky curtain, fixing advertising LED display, showcase LED display, etc.	±15° Curving, Dislocation shape
Application	Indoor & outdoor stage LED display, dance floor, stadium LED display, sky curtain, fixing advertising LED display, showcase LED display, etc.	Indoor & outdoor stage LED display, dance floor, stadium LED display, sky curtain, fixing advertising LED display, showcase LED display, etc.
Installation Method	Fixing, Hanging	Fixing, Hanging
Certification	CCC, CE, FCC, ETL, TUV	CCC, CE, FCC, ETL, TUV



When the MG7 Supreme P4.8 was switched to the indoor mode, the gray scale performance is still intact, keeping high image layered and bright-colored.



When the brightness of traditional outdoor LED display decreases to indoor use, the gray scale will be damaged seriously, and not able to show image details.