



Fluorescent Light Systems

from printed catalog 4/2004

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Folding Fluorescent —120v

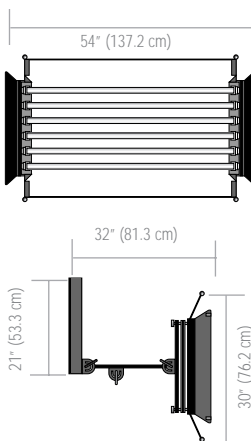
On location or in the studio, if you need a large soft source in daylight or tungsten color, the fold-up fluorescent Light Array delivers. Use high CRI lamps for film or digital, or swap to standard tubes to match conventionally lit fluorescent locations. Mount it on our KSA Stand with accessory wheels for easily positioned high-res digital studio shooting.

8 square foot, soft-shadow, 3 amp, cool, fluorescent fixture.

Uses six 120 volt 4-foot, 2-pin, T-12 tubes. High CRI (Color Rendering Index) lamps available (tungsten & daylight) for Film, Video, Digital (see chart below). Or use conventional lamps to match for location lighting.

Flicker-free electronic ballast pivots to provide adjustable counter balance for head which tilts, pans, rotates and booms.

Accessory extension cable allows head to be used remote from ballast.



For travel, unit folds to fit in one case with its air-cushioned stand, boom and ballast, less tubes.

Technical Data

Size closed: (Head)
31" x 5" x 8.5"
(78.7 x 12.7 x 21.6 cm)
Weight:
Head: 7.5 lbs (3.40 kg)
Ballast, Cable, Boom:
10.5 lbs (4.76 kg)

Lamp voltage: 120v AC/60Hz
Amperage: 3 amps
Electronic Ballast:
flicker-free (25KHz)
Switch: in-line, 3 or 6 tubes
U.S. Patent: 4782428

Lamps

LowelCode	Wattage	Size	CRI	Avg Life**	°K
A1-32	40w	48"	95	8000 hr	3200 (Tungsten)
A1-32CG*	40w	48"	95	8000 hr	3200 (Tungsten)
A1-55	40w	48"	95	8000 hr	5500 (Daylight)
A1-55CG*	40w	48"	95	8000 hr	5500 (Daylight)

GE Color Corrected Cinema 32 & 55 lamps.

*with covRguard shatter resistant coating. **Mfr. rated. See price list for other lamps.

Light &

Complete Lowel Light-Array



Code: A1-10
Weight: 18 lbs (8.17 kg)
Includes Head with Reflector & Barndoors, Ballast and Boom. Does not include stand or tubes.

Light-Array Head



Code: A1-11
Weight: 7.5 lbs (3.4 kg)
Head with Reflector and Barndoors.

Light-Array Ballast



Code: A1-12
Weight: 9.25 lbs (4.2 kg)
Flicker-free electronic Ballast with cables serve as an adjustable counter-balance on the Boom; can also be clamped on a stand or pipe.

Light-Array Boom



Code: A1-13
Weight: 1.25 lbs (570 g)
Light-Array Head pans and tilts up when mounted directly on a stand. The Boom enables it to tilt down and reach out over a subject.

Replacement Reflector



Code: A1-30
Weight: 12 oz (340 g)
Washable, white fabric reflector shell stays on the head when folded; attaches with Velcro fasteners for easy removal. Supplied with Light-Array Head.

Ballast Extension Cables (2)



Code: A1-33
Weight: 1.3 lbs (580 g)
Set of two 8' (2.43 m), 9-wire cables, allow Ballast box to be positioned further away from the Head when required.

Light Control

Frost Gel

Code: A1-72
Weight: 4 oz (113 g)
Tough frost gel, 24" x 54" (61 x 137.2 cm) diffuses the light and "hides" individual tubes—advisable when the light is reflected in subject's eyes, chrome surfaces, etc.

Mounts

KSA Stand



Code: KSA
Weight: 4 lbs (1.8 kg)
Black-anodized air-cushioned KSA Stand is ideal for use with the Light-Array. Supplied with Full Array Kit.

Lowel Casters (3)



Code: LC
Weight: 2.5 lbs (1.13 kg)
Locking casters enable the stand to be wheeled into place. Recommended. (Set of 3).

Safety Cable (3)



Code: CM-50
Weight: 2 oz (57 g)
A Safety Cable should always be used for extra security when attaching the Lowel Light-Array overhead to pipes, grids, etc. (Set of 3).

Performance

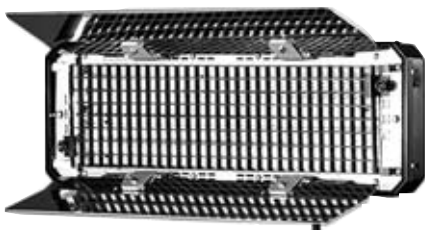
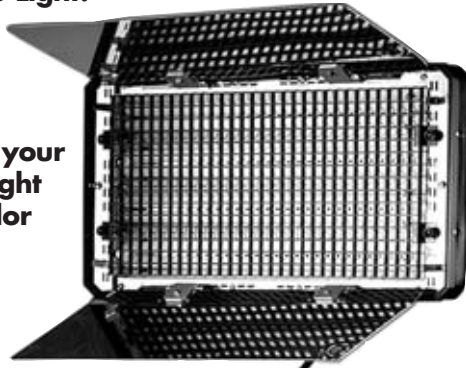
Readings taken with standard Cool-white non color-corrected lamps.

Foot Candles (Lux = foot candles x 10.8)	5	10	15
135	40	21	
10.5'	9.2'	18.3'	27.5'
21.1'		31.6'	
Feet	5	10	15
Meters	1.5	3	4.5

Compact, Self-contained Location Fluorescents 120/230v, 55w lamps

The Case IS the Light!

For the pro on the go, the all-in-one Caselites offer your choice of daylight or tungsten color in a compact, easy to carry fluorescent package.



The current popularity of fluorescent lights

in film & video production is well deserved. They offer cool, soft and efficient light at several times the output of incandescent halogen sources. Unfortunately, they can also be too cumbersome and fragile to use on location, often requiring several cases to carry lights and accessories. The Caselites solve that problem by being compact, lightweight, rugged and completely self-contained without sacrificing output or light quality. The all-in-one Caselite is both light & case combined. Pop the lid and there's room inside for stand-fitting tilt-bracket & plate, plus power cord, stand, or spare bulbs.

2 Efficient models:

2 x 55w & 4 x 55w tube fixtures.

120/230v operation

Case lid: holds spare lamps or stand, plus egg crate, mounting plate, stand tilt-bracket, power cord.

Internal ballast means quicker setup time.

Efficient reflector & ballast design

allows maximum light output.

Daylight or Tungsten:

uses 5300°K or 3000°K compact fluorescent lamps.

Individual lamp switches:

to control output intensity without dimming.

Supplied light controls include: quick release egg crate grid,

mounted gel clips, dual purpose barndoor/intensifiers.

Rugged lightweight

stackable case made of heavy duty ABS plastic.

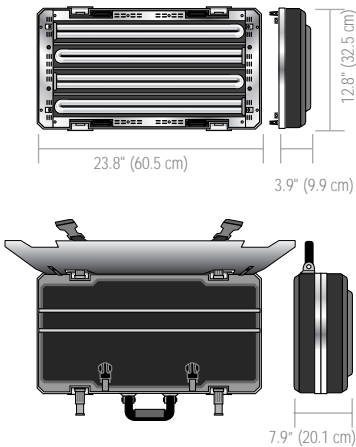
Updated tilt-bracket

for easy stand mounting & versatile lamp positioning.

Ideal for TV news crews

& documentary video production.

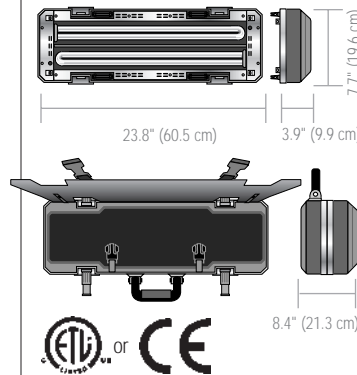
Caselite4 Technical Data



Weight:
Fixture with lamps: 7.9 lbs (3.6 kg)
Fixture with lamps, Egg Crate, Intensifiers, Plate & Stand-Fitting Bracket, AC Cable: 14.2 lbs (6.4 kg)
Fixture with above, plus lid: 21 lbs (9.5 kg)
Amperage: 2.6 at 120v, 1.4 at 230v
Fits on: 5/8" (1.59 cm) stud
Materials: High impact ABS and aluminum
Cable: removable 16' (4.88m) #18/3 with switch
Switch: 1 in-line and 3 recessed lamp switches on back
U.S. Patents: 6164801; D428,254; 6,554,459,B72



Caselite2 Technical Data



Weight:
Fixture alone: 5.3 lbs (2.4 kg)
Fixture with lamps, Egg Crate, Intensifiers, Plate & Stand-Fitting Bracket, AC Cable: 10 lbs (4.5 kg)
Fixture with above, plus lid: 14 lbs (6.4 kg)
Amperage: 1.3 at 120v, .7 at 230v
Fits on: 5/8" (1.59 cm) stud
Materials: High impact ABS and aluminum
Cable: removable 16' (4.88 m) #18/3 with switch
Switch: 1 in-line and 1 recessed lamp switch on back
U.S. Patents: 6164801; D428,254; 6,554,459,B72

Lamps

Lowel Code	Osram Code	Watts	°K	CRI	Average Life
CF-55TU	DuluxL55w/32-930	55	3000 Tungsten	90+	8000 hr*
CF-55DA	DuluxL55w/12-950	55	5300 Daylight	90+	8000 hr*

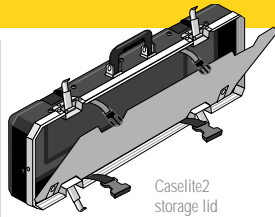
*lamp manufacturers rated life
 May require "minus green" filtration gel (1/4 or 1/2), when used with film emulsions.

Caselite2

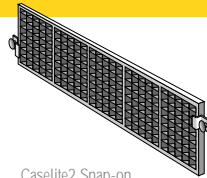
Code: CF-20
Weight: 13.3 lbs (6 kg)
Size: 23.8 x 7.7 x 8.4"
 (60.5 x 19.6 x 21.3 cm)

Code: CF-20CE
 CE approved Euro model.

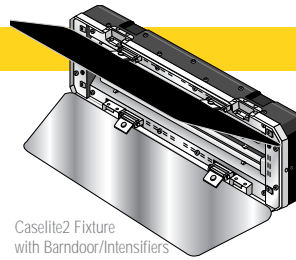
Less lamps.



Caselite2 storage lid



Caselite2 Snap-on Egg Crate



Caselite2 Fixture with Barndoor/Intensifiers

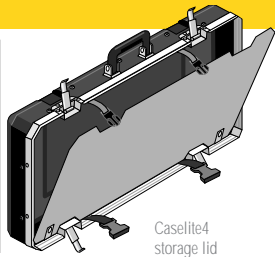


Caselite4

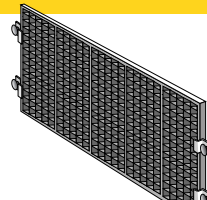
Code: CF-40
Weight: 19.6 lbs (8.9 kg)
Size: 23.8 x 12.8 x 7.9"
 (60.5 x 32.5 x 20.1 cm)

Code: CF-40CE
 CE approved Euro model.

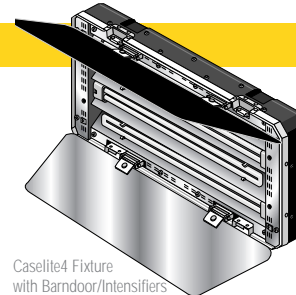
Less lamps.



Caselite4 storage lid



Caselite4 Snap-on Egg Crate



Caselite4 Fixture with Barndoor/Intensifiers

Caselite2 & Caselite4 Supplied Components

Caselite storage lid

Storage space for all the listed components plus Uni Sr. Stand and/or lamps.

Snap-on Egg Crate

Further controls light spill with loss of output.

CF-22	Caselite2
CF-42	Caselite4

2 Barndoor/Intensifiers

Dual purpose reversible Barndoor/Intensifiers can be used with black barndoor side facing in to cut spill or reflective intensifier side facing in to increase output. (approx. 50%)

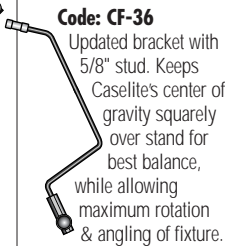
CF-21	Caselite2
CF-41	Caselite4

Mounting Plate



Code: CF-35
 Updated Mounting Plate attaches to back of fixture, allowing use of Stand-fitting Tilt-bracket or standard 5/8" stud. Allows fixture to rotate 360°.

Stand-fitting Tilt-bracket



Code: CF-36
 Updated bracket with 5/8" stud. Keeps Caselite's center of gravity squarely over stand for best balance, while allowing maximum rotation & angling of fixture.

Gel-jawz (8)



Code: CL-15
 Package of eight clips. Attach to barndoor leaves to hold gels.

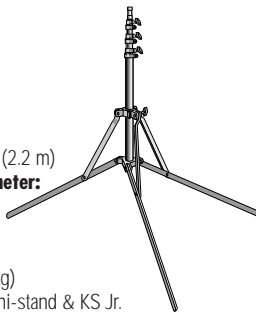
16' Power Cable



Code: T1-80
 (or applicable CE cable)
 #18/3 switched AC.

Mount

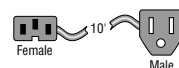
Uni Sr. Stand



Code: UN-66
Maximum height: 7' (2.2 m)
Maximum base diameter: 46" (1.2 m)
Collapsed length: 2.5" (57.2 cm)
Weight: 3.3 lbs (1.5 kg)
 Based on design of Uni-stand & KS Jr. stand. Collapses smaller than KS Jr., fits into lid of either Caselite (in Caselite2, in place of spare lamp tubes).

Optional

10' Unswitched Cable

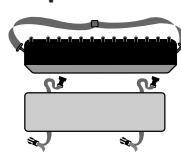


Code: T1-808
Weight: 1.1 lbs (.5 kg)
 For portable stage lighting use. "Hard service" #18/3 cable.

CE approved AC Cables (switched)

T1-801	Eurocord
T1-802	UK Cord

Caselite Lampak



Code: CL-85
 High impact molded polyethylene case with foam inserts to hold 6 T-55 lamps. With padded shoulder strap.

Caselite Rain Cover



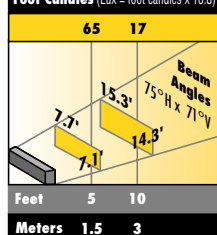
Fold-up yellow rain cover with zippered lid. Made of flexible plastic to minimize dampness when transporting unit (not suitable for protection when shipping).

CF-24	Caselite2
CF-44	Caselite4

Caselite2 Performance

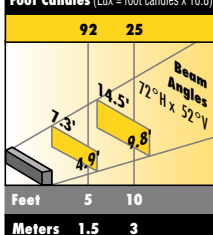
WITHOUT INTENSIFIERS

Foot Candles (Lux = foot candles x 10.8)



WITH INTENSIFIERS *

Foot Candles (Lux = foot candles x 10.8)



*Intensifiers set at approx. 40°

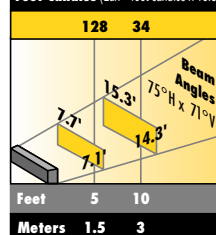
All readings taken at the center of the beam, with daylight lamps, using Minolta T1 meter.

Beam angles-points at which intensity drops to 50% of maximum

Caselite4 Performance

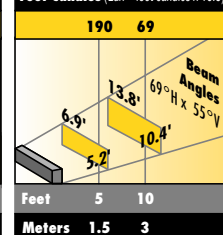
WITHOUT INTENSIFIERS

Foot Candles (Lux = foot candles x 10.8)



WITH INTENSIFIERS *

Foot Candles (Lux = foot candles x 10.8)



Multi-Tasking Fluorescent



LowelScandles is the first multi-tasking fluorescent fixture designed for quick & easy choice of light size, intensity & quality, by quick change of accessories. Its unique cluster arrangement of lamps make a whole new set of options possible for adding accessories to shape and direct the output.

Updated by Lowel from an original design by noted photographer/inventor Gary Regester, LowelScandles has many innovative features. Ideal for shooting high-res digital portraits or video talking heads.



For convenient use with a chimera-style softbox, a rotating Universal Speed Ring is permanently installed on fixture.

The Speed Ring accepts the following softbox attachments: Plume®, Chimera®, Westcott®, Photoflex®.

Features

200 Watt daylight or tungsten balanced light output from 8 lamps, switched in pairs for easy variable output.

Uses either eight 24 Watt (12" length) or eight 18 Watt (8" length) compact fluorescent lamps (mfg. avg. life: 8,000 hrs).

90+CRI lamps available in 5500°K and 3000°K.

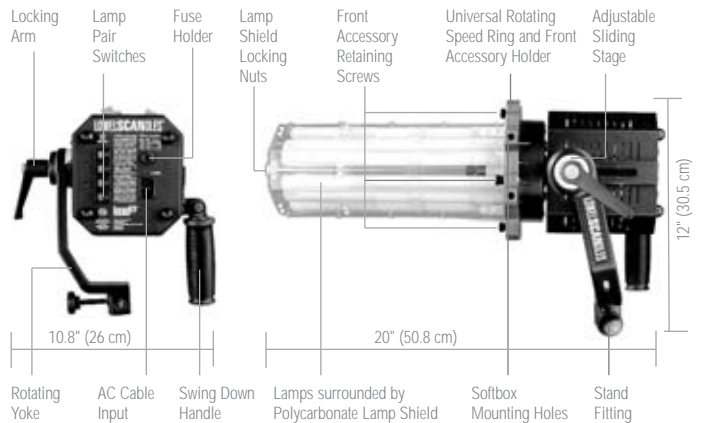
High efficiency output: 50 lumen/Watt.

Auto-setting dual-voltage input (120/230 VAC, 50/60Hz), flicker-free high efficiency internal ballast (39KHz).

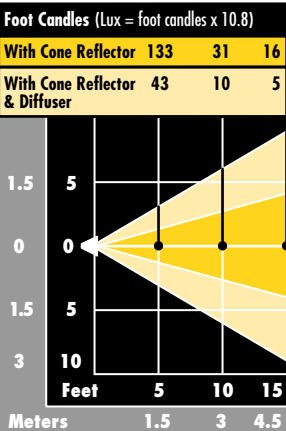
Installed universal Rotating Softbox Speed Ring.

Quick attachment accessories:

- Collapsible Front Intensifier with Softbox Diffuser (supplied).
- Special purpose Aluminum Cone Reflector for studio application.



Performance



Lamp: Osram Dulux L 24w/12 Daylight
Color Temperature:
5050 – With Collapsible Cone Reflector
4900 – With Collapsible Cone Reflector & Front Diffuser

Beam Angles:

- points at which intensity drops to 50% of maximum
- readings taken at center of beam

Technical Data

Size: 20 x 10.8 x 12" (50.8 x 26 x 30.5 cm)
Weight without AC cable: 8.5 lbs
Max. wattage: 200
Max. amperage: 2.5A
Beam control: variable with front accessories

Fits on: 5/8" stand studs
Materials: Primarily aluminum alloy
Cable: 16' #18/3 wire, switched
Switches: 4 on fixture (each controls 1 pair of lamps)



Lamp Data

Code	Wattage	Size	CRI	Description	Avg Life	°K
LSF-24DA	24w	12"	90+	Dulux L 24w/12*	8000 hr	5300 (Daylight)
LSF-24TU	24w	12"	90+	Dulux L 24w/32*	8000 hr	3000 (Tungsten)
LSF-18DA	18w	8"	90+	Dulux L 18w/12*	8000 hr	5300 (Daylight)
LSF-18TU	18w	8"	90+	Dulux L 18w/32*	8000 hr	3000 (Tungsten)

*Osram Dulux® Lamps (mfr. rated lamp life – 8,000 hrs.). When working with film emulsions, may require "minus green" filtration gel (1/4 or 1/2).

Light &

LowelScandles Light & Cone



Daylight
Code: LSF-05DA

Tungsten
Code: LSF-05TU

Size: 20 x 11 x 8" (50.8 x 26 x 30.5 cm)
Weight: 11 lbs (5.5 kg)
Fixture with installed Universal Softbox Speed Ring, Collapsible Cone Intensifier & Front Diffuser, Polycarbonate Lamp Shield, 16' AC cable with switch, 8 fluorescent lamps (12", 24w, 5300°K daylight or 24w 3000°K tungsten corrected).

LowelScandles



Same as above, but without Collapsible Cone Intensifier & Front Diffuser

Daylight
Code: LSF-10DA

Tungsten
Code: LSF-10TU

LowelScandles Light (Body only)

Code: LSF-13

Fixture with installed Universal Speed Ring, plus 16' AC cable with switch.



Clear Polycarbonate Lamp Shield



Shield 12"
Code: LSF-212

Shield 8"
Code: LSF-208

Weight: .5 lbs (224 g) approx.
Shield surrounds lamps to provide shock absorption. 2 models for 12" or 8" compact fluorescent lamps.

Light Controls

Collapsible Cone Intensifier with Front Diffuser



Code: LSF-15
Size: 14" L x 19" diameter (35.5 x 48.25 cm)
Flexible snap on reflector, and removable diffuser quickly breaks down to store in light case.

Aluminum Cone Reflector

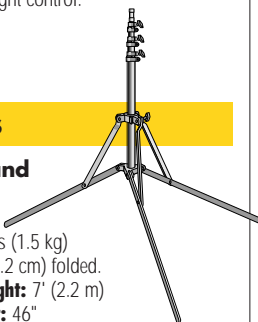


Code: LSF-17
Size: 12.5" L x 14" diameter (32 x 35 cm)
Weight: 1.4 lbs (1.27 kg)
Non-collapsible cone reflector, accepts Lowel Fin-S, clip-on adjustable barndoor for increased light control.

Mounts

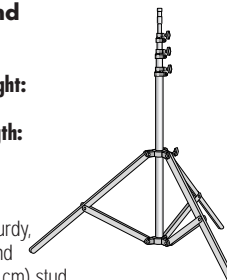
Uni Sr. Stand

Code: UN-66
Weight: 3.3 lbs (1.5 kg)
Size: 22.5" (57.2 cm) folded.
Maximum height: 7' (2.2 m)
Base diameter: 46"
Based on design of Uni-stand & KS Jr. stand. Collapses smaller than KS Jr. Collar clamping.



KS Jr. Stand

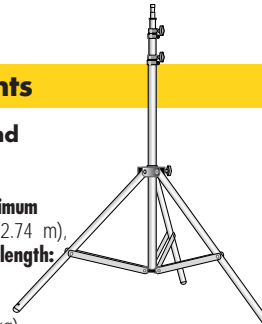
Code: DT-33
Maximum height: 7'7" (2.3 m),
Collapsed length: 2'4" (65 cm)
Weight: 3.5 lbs (1.6 kg)
Wide based, sturdy, lightweight stand with 5/8" (1.59 cm) stud, 3 sections and solid bar legs.



Mounts

KS Stand

Code: KS
Size: Maximum height: 9' (2.74 m),
Collapsed length: 3' (91 cm)
Weight: 4 lbs (1.8 kg)
Wide based, sturdier, lightweight stand with 5/8" (1.59 cm) stud, 2 sections and tubular legs.



KSA Stand

Code: KSA
Same as above but black-anodized, air-cushioned stand.

Tota-clamp

Code: T1-30
Weight: 4 oz (113g)
Clamps onto pipes, shelves, etc. up to 1 7/8" (4.78 cm) thick. 5/8" (1.59 cm) stud locks in two positions and accepts a light. Also accepts two Flexi-shafts with flags or flectors.



Safety Cable (3)

Code: CM-50
Weight: 2 oz (57 g)
Size: 34" (86.4 cm)
Braided stainless-steel cable adds security to lights and accessories that are attached to overhead pipes, beams, dropped-ceiling grids, etc. (Set of 3).

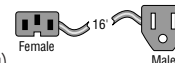


For other Clamps, Booms, etc, see Mounts section.

Cables

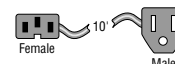
16' Switched AC Cable

Code: T1-80
Weight: 13 oz (369 g)
Standard #18/3; with switch.



10' Unswitched Cable

Code: T1-808
Weight: 1.1 lbs (.5 kg)
For portable stage lighting use. "Hard service" #18/3 cable.



5 Models; 2-8 55w fluorescent lamps; 120 & 220/240v



Studio Fluorescents for Video Production, Video Conferencing, Digital Imaging & Film

The world leader in location lighting is now also number one in studio fluorescent control.

Whether you are producing a 24-hour newscast, a high resolution digital photo shoot, or a corporate video conference, the bright soft output & efficient operation of Lowel Fluo-Tec studio fluorescents make beautiful images easier to create.

Is your shooting area a large full blown production facility with DMX controlled console, or a compact table-top web-casting set with 4 outlets in the wall? For either of these, and anything in between, Lowel Fluo-Tec helps you tailor your lighting system to perfectly suit the illumination requirements of your shooting area.



Video-conferencing image provided by TANDBERG, a Global Leader in Videoconferencing Solutions.

System overview

5 dimmable and 5 non-dimmable models, housing from 2-8 55w lamps.

Soft, flattering fluorescent in your choice of lamp color temperature, Tungsten or Daylight, with high CRI (Color Rendering Index).

Tungsten lamps mix easily with focusable tungsten halogen sources, such as Lowel Fren-L 650, for increased creative control of light quality.

All models have a high frequency internal ballast for flicker-free operation.

Wide range of available accessories, including mirror-finish intensifiers, honeycomb grids, egg crates & barndoors.

Dimmable Models

Patented, award winning, state of the art electronics with integrated DMX-512 circuitry, allowing full control from any DMX console, of up to 512 fixtures.

Membrane-style digital control panel on the back of the fixture allows manual dimming & manual storage of 4 dimmer settings (retained in fixture, even when powered down).

LED display shows DMX address, dimming level & lamp life.

Remote Port

will accept the Lowel IR-DMX External Sensor to use IR-DMX Controller, a remote control accessory system which allows multi-unit remote dimming without the need of a console, for up to 512 fixtures.



Non-Dimmable Models

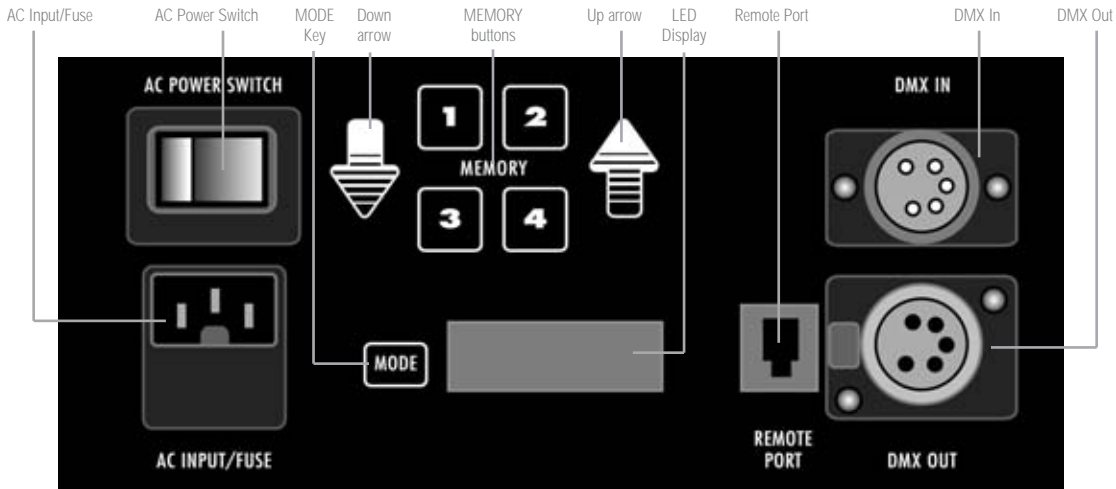
Great for soft illumination where only basic control of the output is needed. Most also have multiple lamp switches on the unit to vary the output on a limited basis by switching pairs of lamps on or off.

Planning a studio?

For assistance in specifying equipment for a fluorescent studio/video conference room, contact us at 800 334 3426 (NYC) or via e-mail at info@lowel.com.



Dimmable Model Rear Control Panel



Hand-held IR DMX Dimming Control

IR DMX Controller

Revolutionary hand-held infrared (IR) remote control system allows Multi-unit DMX dimming control without lighting console.

Easy to use logically designed controls.

One unit can address & command up to 512 dimmable fixtures (DMX daisy-chained).

Uses 2 AA batteries.

Also works with IR DMX Translator, see Electronic Light Controls section for more information.

IR DMX Controller

Code: FLS-100
Size: 4.5 x 2.6 x 1" (11.5 x 6.6 x 2.5 cm)
Weight: 5 oz (16 g) with batteries

IR DMX External Sensor

Compact state-of-the-art receiving unit quickly plugs into the fixtures Remote Port, and passes remote control commands to DMX chain.

Connected via telephone stylepatch cord, powered by fixture.

IR DMX External Sensor

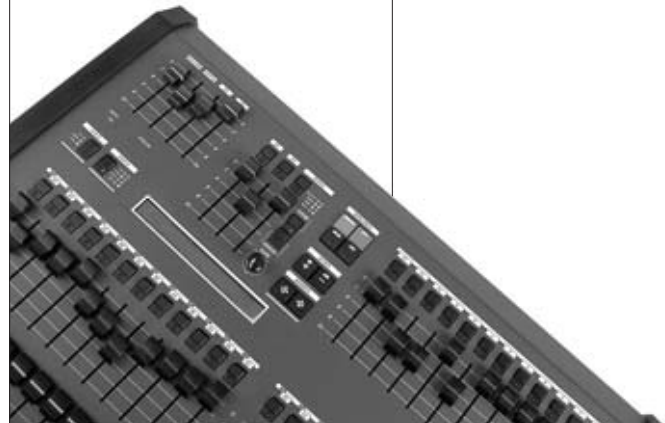
Code: FLS-120
Size: 2.5 x 1.75 x 1" (6.3 x 4.4 x 2.5 cm)
Weight: 4 oz (141 g) without cable



About DMX

For those who are new to using DMX-512, we offer the following brief introductory definition...

DMX-512 is an addressing & communication protocol that allows a centralized controller (like a lighting console) to address and dim from 1-512 dimmers individually. In this case, it allows a DMX-capable lighting console to assign a separate address for up to 512 different dimmable Lowel Fluo-Tec fixtures, and to send dimming commands to them. Those commands can vary according to the abilities of the controller, but can include pre-timed fades, sub-group programming, and pre-designed lighting plots with stored levels.



Studio 850 8 lamp



Dimmable

Code: **FLS-850DM** – 120v model
Code: **FLS-850DM230** – 220/240v model

Non-Dimmable

Code: **FLS-850ND** – 120v model
Code: **FLS-850ND230** – 220/240v model

Size: 27.5 x 26 x 4.5" (69 x 65 x 11 cm)
Dimmable Model Weight: 28.8 lbs (13.1 kg) without accessories

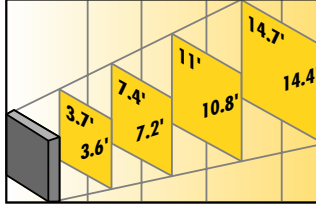
Uses 8 compact 55w lamps (not included).
Supplied with Gel Frame, Safety Cables (3),
Standard Clamp and applicable 10' AC Cable
(120v models with U-ground connector).
Other mounting devices & AC cable
connection options are available.



Performance

Without Intensifier 63°H x 62°V*

Foot Candles (Lux = foot candles x 10.8)
989 244 109 61

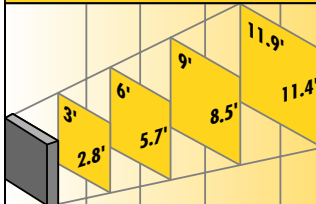


Feet 3 6 9 12

Meters .9 1.8 2.7 3.7

With Intensifier 52°H x 50°V*

Foot Candles (Lux = foot candles x 10.8)
1805 446 199 111



Feet 3 6 9 12

Meters .9 1.8 2.7 3.7

*Beam Angles: points at which intensity drops to 50% of maximum.
Foot Candle readings taken at center of beam, with Minolta T-1 meter, using Osram Studioline lamps.

Studio 650 6 lamp



Dimmable

Code: **FLS-650DM** – 120v model
Code: **FLS-650DM230** – 220/240v model

Non-Dimmable

Code: **FLS-650ND** – 120v model
Code: **FLS-650ND230** – 220/240v model

Size: 27.5 x 21 x 4.5" (69 x 52 x 11 cm)
Dimmable Model Weight: 23.1 lbs (10.5 kg) without accessories

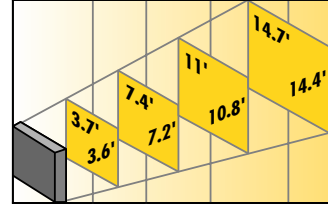
Uses 6 compact 55w lamps (not included).
Supplied with Gel Frame, Safety Cables (3),
Standard Clamp and applicable 10'
AC Cable (120v models with U-ground
connector). Other mounting devices &
AC cable connection options are available.



Performance

Without Intensifier 63°H x 62°V*

Foot Candles (Lux = foot candles x 10.8)
801 198 88 50



Feet 3 6 9 12

Meters .9 1.8 2.7 3.7

With Intensifier 52°H x 48°V*

Foot Candles (Lux = foot candles x 10.8)
1329 329 147 82



Feet 3 6 9 12

Meters .9 1.8 2.7 3.7

*Beam Angles: points at which intensity drops to 50% of maximum.
Foot Candle readings taken at center of beam, with Minolta T-1 meter, using Osram Studioline lamps.

Studio 450 4 lamp



Dimmable

Code: **FLS-450DM** – 120v model
Code: **FLS-450DM230** – 220/240v model

Non-Dimmable

Code: **FLS-450ND** – 120v model
Code: **FLS-450ND230** – 220/240v model

Size: 27.5 x 15.75 x 4.5"
(69 x 39 x 11 cm)
Dimmable Model Weight: 18 lbs (8.2 kg)
without accessories

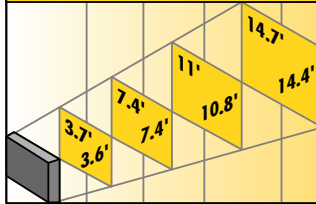
Uses 4 compact 55w lamps (not included).
Supplied with Gel Frame, Safety Cables (3),
Standard Clamp and applicable 10'
AC Cable (120v models with U-ground
connector). Other mounting devices &
AC cable connection options are available.



Performance

Without Intensifier 63°H x 62°V*

Foot Candles (Lux = foot candles x 10.8)
569 141 63 35

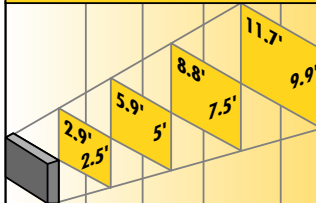


Feet 3 6 9 12

Meters .9 1.8 2.7 3.7

With Intensifier 52°H x 45°V*

Foot Candles (Lux = foot candles x 10.8)
962 238 106 60



Feet 3 6 9 12

Meters .9 1.8 2.7 3.7

*Beam Angles: points at which intensity drops to 50% of maximum.
Foot Candle readings taken at center of beam, with Minolta T-1 meter, using Osram Studioline lamps.

Studio 250 2 lamp



Dimmable

Code: **FLS-250DM** – 120v model
Code: **FLS-250DM230** – 220/240v model

Non-Dimmable

Code: **FLS-250ND** – 120v model
Code: **FLS-250ND230** – 220/240v model

Size: 27.5 x 10.6 x 4.5"
(69 x 26.5 x 11 cm)
Dimmable Model Weight: 13.6 lbs (6.2 kg) without accessories

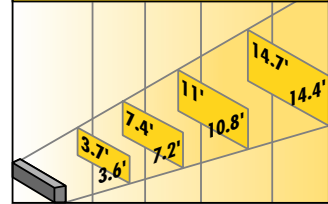
Uses 2 compact 55w lamps (not included).
Supplied with Gel Frame, Safety Cables (3),
Standard Clamp and applicable 10'
AC Cable (120v models with U-ground
connector). Other mounting devices &
AC cable connection options are available.



Performance

Without Intensifier 63°H x 62°V*

Foot Candles (Lux = foot candles x 10.8)
273 68 30 17

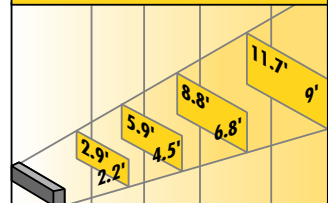


Feet 3 6 9 12

Meters .9 1.8 2.7 3.7

With Intensifier 52°H x 41°V*

Foot Candles (Lux = foot candles x 10.8)
573 142 63 36



Feet 3 6 9 12

Meters .9 1.8 2.7 3.7

*Beam Angles: points at which intensity drops to 50% of maximum.
Foot Candle readings taken at center of beam, with Minolta T-1 meter, using Osram Studioline lamps.

Studio 250cy

4 lamp



Dimmable

Code: **FLS-250CYDM** – 120v model
Code: **FLS-250CYDM230** – 220/240v model

Non-Dimmable

Code: **FLS-250CYND** – 120v model
Code: **FLS-250CYND230** – 220/240v model

Size: 52 x 10.6 x 4.5" (130 x 26.5 x 11 cm)
Dimmable Model Weight: 21.4 lbs (9.7 kg) without accessories

Uses 4 compact 55w lamps (not included). Supplied with Gel Frame, Safety Cables (3), Standard Clamp and applicable 10' AC Cable (120v models with U-ground connector). Other mounting devices & AC cable connection options are available.



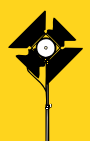
Performance

Without Intensifier	82°H x 64°V *			
Foot Candles (Lux = foot candles x 10.8)	2	3	4	5
	882	392	220	141

	3.5'	5.2'	7'	8.7'
	2.5'	3.7'	5'	6.2'
Feet	2	3	4	5
Meters	.3	.9	1.2	1.5

*Beam Angles: points at which intensity drops to 50% of maximum.

Foot Candle readings taken at center of beam, with Minolta T-1 meter, using Osram Studioline lamps. Note: Readings taken at different distance than other models.



Light Controls

To help control light output, they slide into guides on front of fixture. Some attach to front of Intensifier, if used. See chart for output gain/loss. All accessories available for most models, see price list for codes/availability. All fixtures supplied with Gel Frame.

Intensifier

Mirrored enclosure mounts on front of the fixture, and almost doubles the output.



Barndoors

For trimming spill of the light. 4 adjustable doors. Mounts on front of the fixture.



Honeycomb Grid

For greatest control of spill, with some loss of output. For front of fixture or Intensifier. 3 dispersion strengths, 20°, 30° & 40° angles.



Egg Crate Grid

Trims spill, but with less control & output loss.



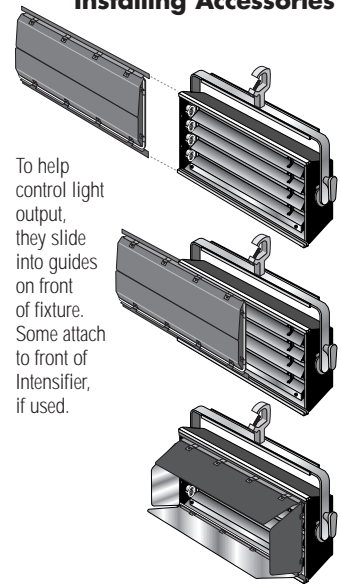
Gel Frame

Supplied with fixture. Hinged metal frame accepts color correction gel or diffusion (for added softness). Slides into front of fixture & allows other accessories to be used.



Installing Accessories

To help control light output, they slide into guides on front of fixture. Some attach to front of Intensifier, if used.



Accessory	Location	Output Loss / Gain (approx)	Studio850 Code	Studio650 Code	Studio450 Code	Studio250 Code	Studio250cy Code
Barndoor	Front of Fixture	N / A	FLS-820	FLS-620	FLS-420	FLS-220	FLS-2520
Intensifier	Front of Fixture	+80%	FLS-822	FLS-622	FLS-422	FLS-222	N / A
Egg Crate	Front of Fixture	-25%	FLS-824	FLS-624	FLS-424	FLS-224	FLS-2524
Honeycomb Grid Black 40°	Front of Fixture	-25%	FLS-834	FLS-634	FLS-434	FLS-234	FLS-2534
Honeycomb Grid Black 30°	Front of Fixture	-35%	FLS-833	FLS-633	FLS-433	FLS-233	FLS-2533
Honeycomb Grid Black 20°	Front of Fixture	-54%	FLS-832	FLS-632	FLS-432	FLS-232	FLS-2532
Honeycomb Grid Black 40°	Front of Intensifier	-30%	FLS-844	FLS-644	FLS-444	FLS-244	N / A
Honeycomb Grid Black 30°	Front of Intensifier	-22%	FLS-843	FLS-643	FLS-443	FLS-243	N / A
Honeycomb Grid Black 20°	Front of Intensifier	-46%	FLS-842	FLS-642	FLS-442	FLS-242	N / A

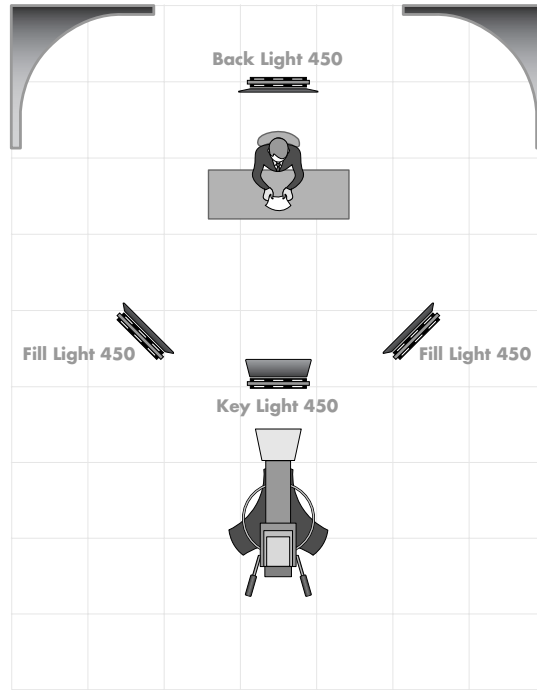
Example Studio Set-ups

The 2 set-ups shown to the right are simple suggestions for a small one or two person news sets.

Both are similar in approach, each set contains a front combination of key & fill lights, and back light.

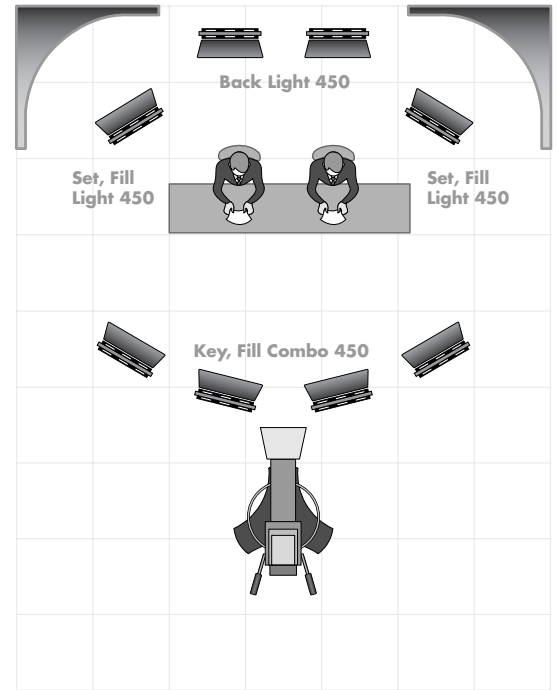
More dramatic effect can be achieved by adding Lowel Fren-L 650s (focusing tungsten fixtures) as hard key or accent lights. **Note: You must use tungsten color temperature fluorescent lamps to avoid color mixing problems.**

Set-up 1



Single person anchor desk has soft key from front and equi-distant fill lights from each side for basic, even illumination. Backlight separates talent from background.

Set-up 2



Two person anchor desk has arc of 4 lights creating soft & even frontal key & fill combination. Back lights separate talent from background. Set fills separately control level of set, without affecting light levels on talent.

DMX Cables

For connecting console to one or more fixtures, daisy-chain style, for remote DMX dimming.

10 Ft. DMX Cable

Code: DMX-010
10 ft. cable with male & female DMX connectors.

25 Ft. DMX Cable

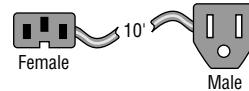
Code: DMX-025
25 ft. cable with male & female DMX connectors.

50 Ft. DMX Cable

Code: DMX-050
50 ft. cable with male & female DMX connectors.

AC Cable Options

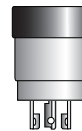
Standard 120v AC Cable



Code: T1-808
Supplied with 120v models. 10' unswitched cable with a 3 pin normal (Edison) AC wall plug. **To choose one of the 2 following optional cables instead, add the suffix from its description to the end of the fixture code.**

Twist-lock Connector Cable

Code: T1-TL
10 ft. unswitched cable with 20 Amp 125V twist-lock connector. To order fixture with this cable, add suffix **TL** at end of fixture code.



3 Pin Stage Connector Cable

Code: T1-TP
10 ft. unswitched cable with 20 Amp 3 pin stage connect or. To order fixture with this cable, add suffix **TP** at end of fixture code.



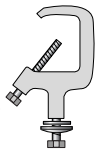
All CE models supplied with 230V Euro Cable, UK Cable also available.

Lowel e-studio cable options: The above AC Cable options are also available for the Lowel e-studio fluorescent system as shown on pp. 34-35. Add the same code suffix to e-studio fixtures when ordering.

Clamp Options

Standard Clamp

Code: FLS-803
Supplied with light. Use when hanging light from pipe or grid. With installed locking washer for more secure operation. Always use with Safety Cables.



To choose one of the 2 following optional mounts instead, add the suffix from its description to the end of the fixture code.

Female 5/8" Stand Fitting

Code: FLS-SF
For use on stand only. Allows mounting the fixture on 5/8" male stand stud. Should only be used with stands large enough to support the weight of the fixture while maintaining good balance at the desired height. **Note:** Should not be used with 250cy. To order fixture with this mount, add suffix **SF** at end of fixture code.



Male Stud

Code: FLS-MS
For use of fixture with Matthews style stands that have a female cup instead of a male stud. To order fixture with this mount, add suffix **MS** at end of fixture code.



Technical Data

Housing material: Aluminum thickness 0.062" formed/welded.
Finish: Black matte & yellow paint.
Mounting options: All units supplied with standard clamp & Safety Cables (3).
 Optional Female Stand-fitting, and Double Male Stud available.
Patent Pending: for dimmable model features.

Dimming Model Features

Dimmer: Digital control from 3% to 100% light output.
Dimming control: Manual or DMX-512/1990 built-in; IR optional.
LED display: 4 digit digital display.
Internal memories: 4 user storable.
Mode functions: DMX addressing, intensity level, lamp life counter (hours).
DMX addressing: switchless, intelligent addressing.



Electrical: 120v Models

Nominal input voltage: 120 VAC
 50/60Hz
Ballast: Integral, electronic ballast
Dimmable model ballast operating frequency: 40-60KHz
Dimmable model power factor: >97
Non-Dimmable model ballast operating frequency: 26KHz



Non-Dimmable model power factor: 70
Power cord: All units supplied with 10' AC U-ground plug standard. Optional 3 pin twist lock or 3 pin theatrical plugs available.
Fuse protection: All units IEC with integral user replaceable 5 x 20 mm fuse (see chart for specific model fuse).

Electrical: 220/240v Models

Nominal input voltage: 220/240 VAC
 50/60Hz
Ballast: Integral, electronic ballast
Dimmable model ballast operating frequency: 43KHz
Dimmable model power factor: >98
Non-Dimmable model ballast operating frequency: 42KHz

Non-Dimmable model power factor: >98
Power cord: All units supplied with applicable approved AC power cable.
Fuse protection: All units IEC with integral user replaceable 5 x 20 mm fuse (see chart for specific model fuse).



Power Consumption @120VAC 50/60Hz

Dimmable Models 120v

Model	Current	Fuse	Continuous Power Consumption	Peak Ignition
Studio 850DM		6.30 A	4.02 A	6.00 A
Studio 650DM		5.00 A	2.96 A	4.50 A
Studio 450DM		3.15 A	2.00 A	3.00 A
Studio 250DM		1.60 A	1.05 A	1.50 A
Studio 250cyDM		3.15 A	2.00 A	3.00 A

Non-Dimmable Models 120v

Model	Current	Fuse	Continuous Power Consumption	Peak Ignition
Studio 850ND		10.00 A	4.52 A	9.90 A
Studio 650ND		8.00 A	3.41 A	7.80 A
Studio 450ND		5.00 A	2.26 A	5.00 A
Studio 250ND		3.15 A	1.15 A	3.00 A
Studio 250cyND		5.00 A	2.26 A	5.00 A

Power Consumption @220/240VAC 50/60Hz

Dimmable Models 220/240v

Model	Current	Fuse	Continuous Power Consumption	Peak Ignition
Studio 850DM230		3.15 A	2.10 A	3.00 A
Studio 650DM230		2.50 A	1.60 A	2.30 A
Studio 450DM230		1.60 A	1.10 A	1.60 A
Studio 250DM230		1.00 A	0.60 A	0.80 A
Studio 250cyDM230		1.60 A	1.10 A	1.60 A

Non-Dimmable Models 220/240v

Model	Current	Fuse	Continuous Power Consumption	Peak Ignition
Studio 850ND230		3.15 A	2.00 A	2.80 A
Studio 650ND230		2.50 A	1.50 A	2.10 A
Studio 450ND230		1.60 A	1.00 A	1.50 A
Studio 250ND230		1.00 A	0.50 A	0.80 A
Studio 250cyND230		1.60 A	1.00 A	1.50 A

Lamps

Osram Studioline® Lamps (Manufacturer rated lamp life 8,000 hrs)
 Designed for use in video & digital imaging for higher output.

Tungsten		CRI	°K
FLS-55TU	Studioline 55w/3200	85	3200
Daylight		CRI	°K
FLS-55DA	Studioline 55w/5600	85	5600

Osram Dulux® Lamps (Manufacturer rated lamp life 8,000 hrs)
 Better lighting for film (still or motion picture) due to better color rendering with film emulsions. May require "minus green" filtration gel (1/4 or 1/2).

Tungsten		CRI	°K
CF-55TU	Dulux 55w/32-930	90+	3000
Daylight		CRI	°K
CF-55DA	Dulux 55w/12-950	90+	5300

Fluorescent Studio System



The economical choice for strong, soft fluorescent light in daylight or tungsten color temperatures, with long lamp life & reduced heat buildup.

3 non-dimmable models housing 2, 4, or 6 long life 55w fluorescent lamps

Daylight or tungsten color temperature

Low heat, low current draw, high power factor

Innovative mounting system allows maximum fixture tilting & rotation (180° each way)

In stand-mount use, fixture rests squarely over stand for best balance

Wide range of accessories available

Versatile Mounting

Available with innovative tilt-bracket for generous rotating & angling abilities. Choose from 2 mounting options; stand-mount, or with C-clamp hanging tilt-bracket for overhead studio rig installation, with the same rotation & tilt positioning options.



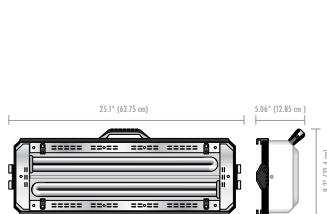
Innovative mounting system allows maximum fixture rotation & mounting flexibility

Ideal for...

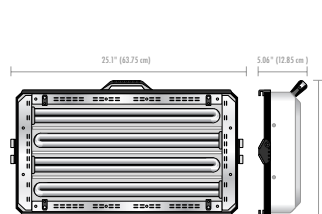
- Video-conference Rooms
- In-house A.V. Departments
- School TV Studios
- Cable TV Public Access Studios
- Web Casting Sets

Technical Data

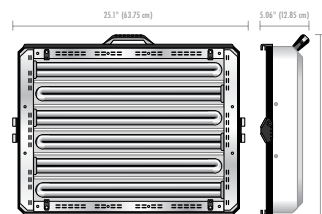
e-studio2



e-studio4



e-studio6



Technical Specs

Amperage: See chart, all models operate at 120-277 VAC 50/60 Hz.

Fuse Ratings: 50/60Hz

Power Factor: >.99



U.S. Patent: 6,554,459 B2

Power Consumption @120VAC 50/60Hz

120v e-studio2, 4, 6

Model	Voltage	Continuous Power	Peak Current	Fuse Rating
e-studio2	120 VAC	0.8	1.2	2.5 A
e-studio4	120 VAC	1.6	2.3	3.15 A
e-studio6	120 VAC	2.4	3.5	5 A

Power Consumption @220/240VAC 50/60Hz

230v e-studio2, 4, 6 (when the fixture auto-sets to 240v, the below values apply)

Model	Voltage	Continuous Power	Peak Current	Fuse Rating
e-studio2	230 VAC	0.4	0.6	2.5 A
e-studio4	230 VAC	0.8	1.3	3.15 A
e-studio6	230 VAC	1.3	1.9	5 A

Lamps

Osram Studioline® Lamps (Manufacturer rated lamp life 8,000 hrs)
Designed for use in video & digital imaging for higher output.

Tungsten	CRI	°K
FLS-55TU Studioline 55w/3200	85	3200
Daylight	CRI	°K
FLS-55DA Studioline 55w/5600	85	5600

Osram Dulux® Lamps (Manufacturer rated lamp life 8,000 hrs)
Better lighting for film (still or motion picture) due to better color rendering with film emulsions. May require "minus green" filtration gel (1/4 or 1/2).

Tungsten	CRI	°K
CF-55TU Dulux 55w/32-930	90+	3000
Daylight	CRI	°K
CF-55DA Dulux 55w/12-950	90+	5300

Lowel e-studio2



Code: FLE-200SF – Stand Mount model w/switched T1-80 AC Cable

Code: FLE-200CM – Overhead Mount model w/unswitched T1-808 AC Cable

Size: 25 x 9.2 x 5" (64 x 23 x 13 cm)

Weight: 7.9 lbs (3.6 kg) without mount or accessories.

Uses 2 compact 55w lamps (not included).

Includes: Mounting plate, chosen mounting system & AC Cable, plus Safety Cables (3).

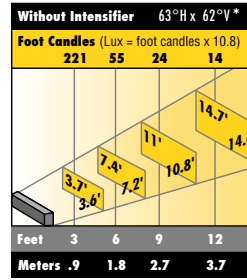
Fixture auto-sets to voltage supplied. For 230V CE use, contact us for appropriate AC Cable.

See page 32 for further AC cable options.



2 lamp

Performance



Mounts

e-studio Stand Mount

Code: CF-36

Stand Mount fits 5/8" stand stud & keeps fixture center of gravity squarely over stand for best balance, while allowing maximum rotation & angling of fixture. Supplied with all Stand Mount models.



e-studio Overhead Mount

Code: FLE-CM

C-clamp fitted bracket allows hanging from pipe or rail with maximum rotation & angling of fixture. Supplied with all Overhead Mount models.



KS Jr. Stand

Code: DT-33

Maximum height: 7'7" (2.3 m)
Collapsed length: 2.3' (65 cm)

Weight: 3.5 lbs (1.6 kg)

Wide based, sturdy, lightweight stand with 5/8" (1.59 cm) stud and solid bar legs. For e-studio 2 & 4 (without Intensifier).

KS Stand

Code: KS

Maximum height: 9' (2.74 m)
Collapsed length: 3' (91 cm)

Weight: 4 lbs (1.8 kg)

Wide based, sturdier, lightweight stand with 5/8" (1.59 cm) stud. For e-studio 2 & 4, or 6 without Intensifier.

KSA Stand

Code: KSA

Air-cushioned stand. Otherwise same as above. For e-studio 2 & 4, or 6 without Intensifier.

Grand Stand

Code: GSA

Maximum height: 10.5' (3.1 m)
Collapsed length: 3.5' (1.1 m)

Weight: 6.75 lbs (3 kg)

Extra wide base, one leg extends longer for use on uneven ground, air-cushioned sections. For e-studio 2, 4 & 6.

Lowel e-studio4



Code: FLE-400SF – Stand Mount model w/switched T1-80 AC Cable

Code: FLE-400CM – Overhead Mount model w/unswitched T1-808 AC Cable

Size: 25 x 14.3 x 5" (64 x 36 x 13 cm)

Weight: 10.4 lbs (4.7 kg) without mount or accessories.

Uses 4 compact 55w lamps (not included).

Includes: Mounting plate, chosen mounting system & AC Cable, plus Safety Cables (3).

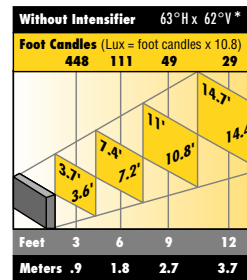
Fixture auto-sets to voltage supplied. For 230V CE use, contact us for appropriate AC Cable.

See page 32 for further AC cable options.



4 lamp

Performance



Lowel e-studio6



Code: FLE-600SF – Stand Mount model w/switched T1-80 AC Cable

Code: FLE-600CM – Overhead Mount model w/unswitched T1-808 AC Cable

Size: 25 x 19.5 x 5" (64 x 49 x 13 cm)

Weight: 14 lbs (6.4 kg) without mount or accessories.

Uses 6 compact 55w lamps (not included).

Includes: Mounting plate, chosen mounting system & AC Cable, plus Safety Cables (3).

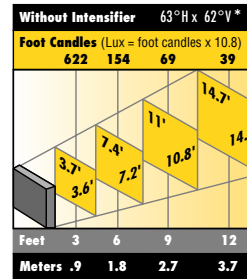
Fixture auto-sets to voltage supplied. For 230V CE use, contact us for appropriate AC Cable.

See page 32 for further AC cable options.



6 lamp

Performance



Light Controls

To help control light output, they slide into guides on front of fixture. Some attach to front of Intensifier, if used. See chart for output gain/loss. All accessories available for most models. All fixtures have quick attach Gel clips installed.

Intensifier

Mirrored enclosure mounts on front of the fixture, and almost doubles the output.



Barndoors

For trimming spill of the light. 4 adjustable doors. Mounts on front of the fixture.



Egg Crate Grid

Trims spill, but with less control & output loss than Honeycomb Grid.



Honeycomb Grid

For greatest control of spill, with some loss of output. For front of fixture or Intensifier. 3 dispersion strengths, 20°, 30° & 40° angles.



Accessory	Location	Output Loss/Gain (approx)	e-studio6 (Code)	e-studio4 (Code)	e-studio2 (Code)
Barndoor	Front of Fixture	N / A	FLS-620	FLS-420	FLS-220
Intensifier	Front of Fixture	+ 80%	FLS-622	FLS-422	FLS-222
Egg Crate	Front of Fixture	- 25%	FLS-624	FLS-424	FLS-224
Honeycomb Grid Black 40°	Front of Fixture	- 25%	FLS-634	FLS-434	FLS-234
Honeycomb Grid Black 30°	Front of Fixture	- 35%	FLS-633	FLS-433	FLS-233
Honeycomb Grid Black 20°	Front of Fixture	- 54%	FLS-632	FLS-432	FLS-232
Honeycomb Grid Black 40°	Front of Intensifier	- 30%	FLS-644	FLS-444	FLS-244
Honeycomb Grid Black 30°	Front of Intensifier	- 22%	FLS-643	FLS-443	FLS-243
Honeycomb Grid Black 20°	Front of Intensifier	- 46%	FLS-642	FLS-442	FLS-242