



GENERAL INFORMATION

The Selador Series Vivid-R CE fixture replaces Vivid CE as ETC's strong colour, long throw LED luminaire. Highly efficient primary lenses and careful colour choices make Vivid-R brighter than the original Vivid while using less power. Vivid-R CE is ideal for stage, studio and anywhere strong colour and high intensity lighting is required. It uses the x7 *Color System* to produce the widest range of spectrally balanced saturated and tinted colours available. Lighting designers will love the deep, pure colours teamed with high-power colour punch. While maximised for high brightness and deep colour output, Vivid-R CE does not give up Selador Series' unique ability to match warm, tungsten white light, vibrant daylight white, and soft, tinted gel colours.

Note: Vivid-R CE uses the 2.5W Rebel LED in place of the 3.5W K2 LED. The K2 LED is being discontinued in 2010. Colour differences between Vivid CE and Vivid-R CE are slight, but will be noticeable if the fixtures are used side-by-side.

APPLICATIONS

- Theatre
- Themed Entertainment
- TV Studio
- Film Studio
- Exhibition Centres

SUGGESTED APPLICATIONS

VIVID MODEL	11	21	42	63
Truss warmer	•			
Front light	•	•		
Side light	•	•		
Key light	•	•		
Fill light	•	•	•	
Downlight	•	•	•	
Backlight	•	•	•	•
Stage wash	•	•	•	•
Cyc light	•	•	•	•

ORDERING INFORMATION

Selador Vivid-R CE

PART NO.	DESCRIPTION
7401A1171	Selador Vivid-R CE 11 (one cell)
7401A1172	Selador Vivid-R CE 21 (two cell)
7401A1174	Selador Vivid-R CE 42 (four cell)
7401A1176	Selador Vivid-R CE 63 (six cell)

Note: Units ship with mounting bolts and 1.5m PowerCon to bare end connector pigtail only. Mounting hardware and secondary lenses must be ordered separately from the accessory list.

Accessories

PART NO.	DESCRIPTION
7400A1001	Selador Trunion Kit (Set of two)
7061A1041	Hanging Bracket Kit (Set of two)
7401A1002	Selador CE 11 Yoke Kit
7401A1004	Selador CE 11 Double Yoke Kit
7401A1003	Selador CE 21 Yoke Kit
7401A1005	Selador CE 21 Double Yoke Kit
7401B7008	1.5m PowerCon to bare end connector pigtail (Spare)

See page 2 for Selador secondary lenses

SPECIFICATIONS

GENERAL

- 2.5W colour-mixing LED fixture
- Available in 11, 21, 42, and 63 versions
- CE compliant
- IP20 rated for indoor dry location use

PHYSICAL

- Rugged all-metal extruded housing
- Easy-access slots for secondary lenses
- Combine secondary lenses for desired horizontal and vertical beam spread
- Available in black (standard)
- Yoke (11 and 21 only), trunnion (floor stand), and hanging bracket mounting options

ELECTRICAL

- 100VAC to 240VAC 50/60 Hz universal power input
- Neutrik PowerCon input connector
- 1.5m power lead (PowerCon to bare end pigtail) supplied
- Requires power from non-dim source
- Low speed, low noise temperature controlled cooling fan for thermal stability

LED*

- 50,000 hr. LED life
- 40 Luxeon® Rebel 2.5W LED emitters per cell

* See additional LED notes on page 3

COLOUR

- Exclusive x7 *Color System*™ 7-colour LED array
- Vivid-R – optimised for strong saturated colours at maximum brightness
- Interacts seamlessly with conventional sources
- Beautifully illuminates skin tones and other objects, for a natural appearance with high colour rendering
- Strong saturated colours with maximum punch

OPTICAL

- Native tight beam spread of approximately 17°
- Secondary lenses install in fixture front to change distribution of light
- Use a combination of vertical and horizontal lenses to spread light both directions
- Lenses must be ordered separately

CONTROL

- DMX512 in and through via 5-pin XLR connectors
- 8 channel control (7 colours plus intensity)
- Intensity channel minimises color shift during dimming
- 15-bit internal control control for smooth low-end dimming
- 21 fixture provides 2 independently controlled cells, 42 fixture 4 cells and 63 fixture 6 cells

THERMAL

- Ambient operating temperature of 0°- 40°C
- Fixture case can become very hot (approx. 85°C) under long-term, high output, continuous usage
- Fixture is designed for continuous usage at 40°C ambient temperature. Requires free air flow around fixture
- Fan speed thermostatically controlled for no noise operation except when required

POWER CONSUMPTION AT FULL INTENSITY

MODEL	VOLTAGE (V)	CURRENT (A)	WATTS
Vivid-R 11 (SELVR11)	120 / 240	1.05 / 0.60	125W / 144W
Vivid-R 21 (SELVR21)	120 / 240	2.10 / 1.20	250W / 288W
Vivid-R 42 (SELVR42)	120 / 240	3.60 / 2.00	500W / 576W
Vivid-R 63 (SELVR63)	120 / 240	6.30 / 3.60	750W / 864W

ADDITIONAL ORDERING INFORMATION

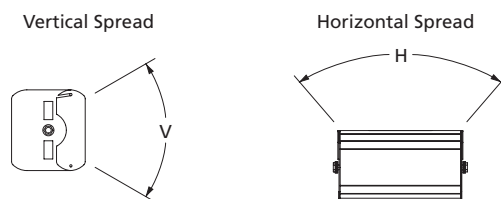
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Selador secondary lenses

PART NO.	DESCRIPTION
7400A40x1*	20°, 30°, 40°, 60°, or 80° Secondary Lens – Horizontal spread 267mm (1 cell width)
7400A40x2*	20°, 30°, 40°, 60°, or 80° Secondary Lens – Horizontal spread 533mm (2 cell width)
7400A40x3*	20°, 30°, 40°, 60°, or 80° Secondary Lens – Vertical spread 267mm (1 cell width)
7400A40x4*	0°, 30°, 40°, 60°, or 80° Secondary Lens – Vertical spread 533mm (2 cell width)

* Replace x in the part no. with first digit in beamspread (e.g. 2 for 20° etc.)

Secondary Lenses



DMX CONTROL CHANNELS

DATA CHANNEL	COLOUR	VALUE	FUNCTION
1	Luminaire Address	Red	Intensity 0-100%
2	Luminaire Address + 1	Red-Orange	Intensity 0-100%
3	Luminaire Address + 2	Amber	Intensity 0-100%
4	Luminaire Address + 3	Green	Intensity 0-100%
5	Luminaire Address + 4	Cyan	Intensity 0-100%
6	Luminaire Address + 5	Blue	Intensity 0-100%
7	Luminaire Address + 6	Indigo	Intensity 0-100%
8	Luminaire Address + 7	Master Intensity Control	Overall Intensity 0-100%

Note: Use individual colour channels to create colour mix. Use Master Intensity Control to set luminaire intensity. Master Intensity Control (Channel 8) must be above 0% for luminaire to output.

NOTES ABOUT LED LUMINAIRES

All LED sources experience some lessening of light output and some colour shift over time. LED output will vary with thermal conditions. With typical usage, a Selador luminaire will still achieve 70% of its initial output after 50,000 hours. In individual situations, LEDs will be used for different durations and at different levels. This can eventually lead to minor alterations in colour performance, necessitating slight adjustment to presets, cues or programs.

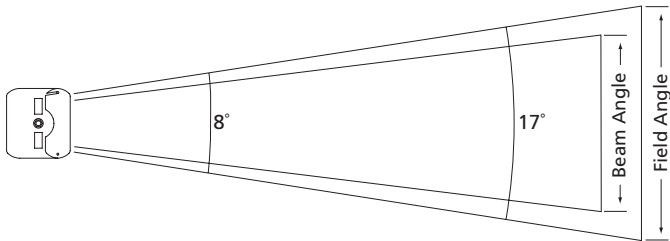
OUTPUT AND EFFICACY DATA FOR VARIOUS GEL COLOURS

Output information for a Source Four PAR EA with 575W/230V HPL lamp is provided for each line of the listed gel colours for comparison.

GEL COLOUR	FIELD LUMENS	WATTS	LUMENS PER WATT	PAR FIELD LUMENS	LUMENS PER WATT
L116 Medium Blue-Green	730	44.7	16.3	750	1.30
G945 Royal Purple	240	39	6.2	66	0.11
G250 Medium Red XT	460	45.3	10.2	468	0.81
G245 Light Red	535	47.2	11.3	822	1.43
AP7570 Trick or Treat	1230	73.3	16.8	2172	3.78
AP6300 Neon Yellow	990	50.9	19.4	4920	8.56
AP5300 Apollo Green	780	42.91	18.5	162	0.28
R382 Congo Blue	110	28.8	3.8	33	0.06
R80 Primary Blue	560	49.8	11.2	276	0.48
R343 Neon Pink	890	64.3	13.8	1680	2.92
L345 Fuchsia Pink	1460	95.8	15.2	858	1.49
L344 Violet	1480	90.8	16.3	1074	1.87
3200K	1450	77.4	18.7		
Full (all channels at 100%)	1750	108	16.2	5700	9.91

PHOTOMETRICS

Photometric data taken with all channels at full. Data reflects the output of one 11 unit. See chart on page 2 for lumen and efficiency information in sample gel colours. Information for PAR fixtures with the same gel colours is presented for comparison. Due to the variability of all LEDs, output data and colour matched should be viewed as approximate. Photometric data for individual lenses and lens combinations may be found at www.etcconnect.com/docs/docs_downloads/techdocs/Selador-Lens-Photometrics.xls



Throw Distance (d)	3.0m	4.6m	6.1m	7.6m
Field Diameter	0.9m	1.3m	1.8m	2.2m
Illuminance (fc)	790	351	198	126
Illuminance (lux)	8,503	3,779	2,126	1,361

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 .163

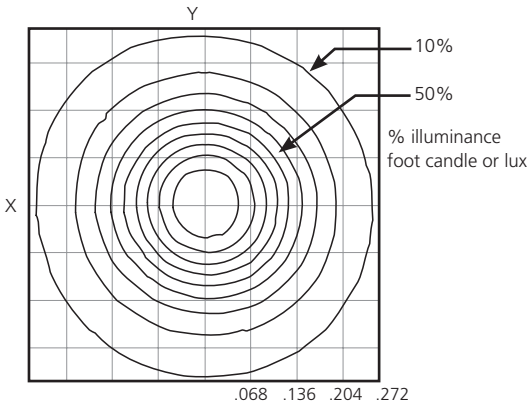
For Beam diameter at any distance, multiply distance by .342

Selador Vivid-R

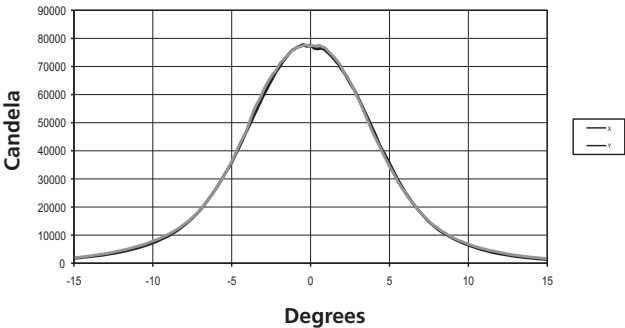
Degree	Candela	Field Lumens	Beam Lumens	Lumens per Watt
17°	79,000	1,750	820	16.2

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

Iso-Illuminance Diagram
(Flat Surface Distribution)



Cosine Candela Plot



*** Throw Distance Multiplier (TDM)

To determine the distance from the center of the beam (Origin) to a certain illuminance level at a particular distance, multiply the desired throw distance by the TDM desired on the Iso-Illuminance diagram.

Throw Distance (TD) x Throw Distance Multiplier (TDM) = Distance from the Origin (DfO) (distance from the center of the beam)

Example: 8.0m (TD) x 0.068 (TDM) = 0.544m from center of beam (DfO)



PHYSICAL

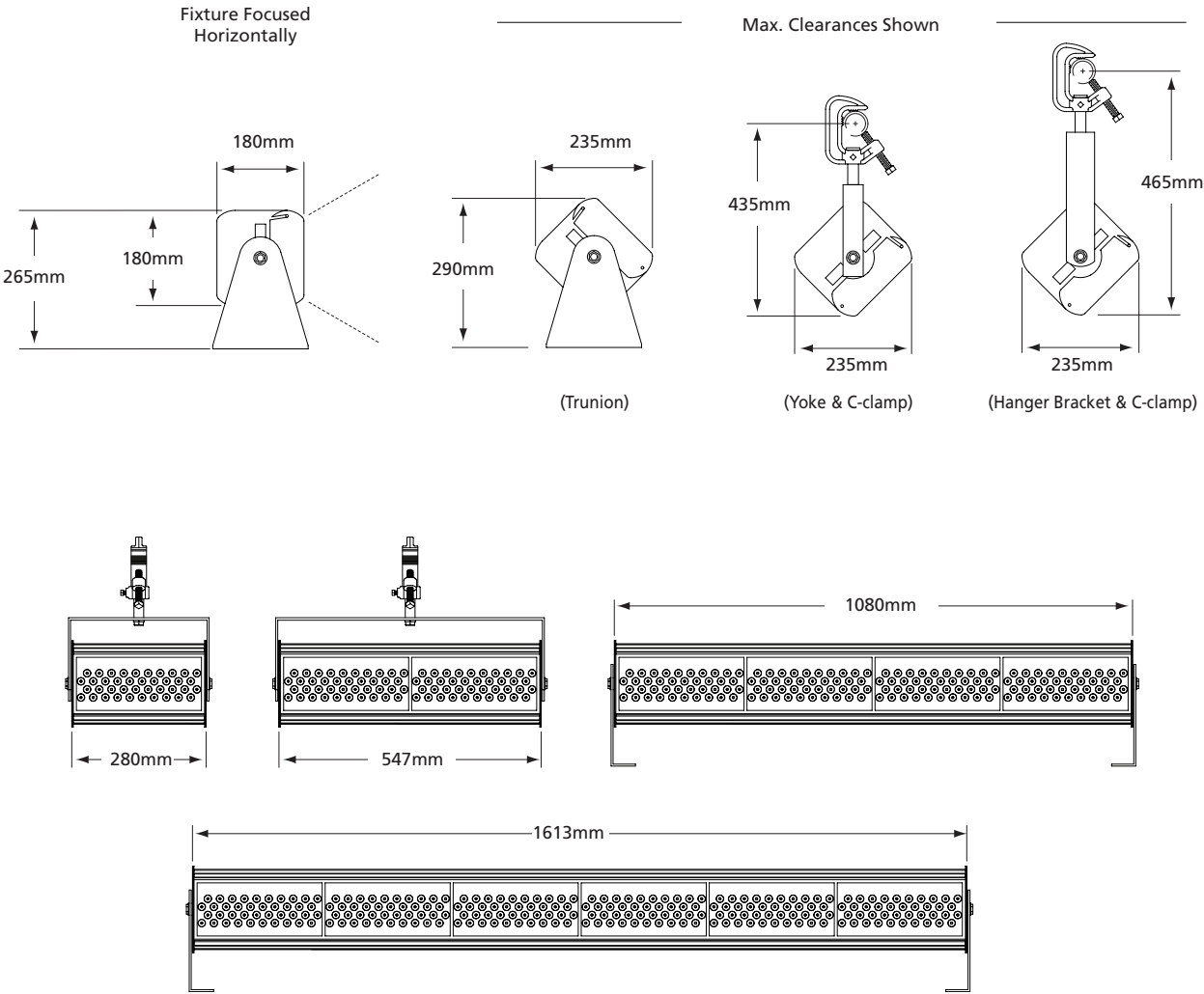
Selador Vivid-R CE Dimensions & Weights

MODEL	# OF LEDS	LENGTH	HEIGHT	DEPTH
		mm	mm	mm
Vivid-R CE 11	40	280	180	180
Vivid-R CE 21	80	547	180	180
Vivid-R CE 42	160	1080	180	180
Vivid-R CE 63	240	1613	180	180

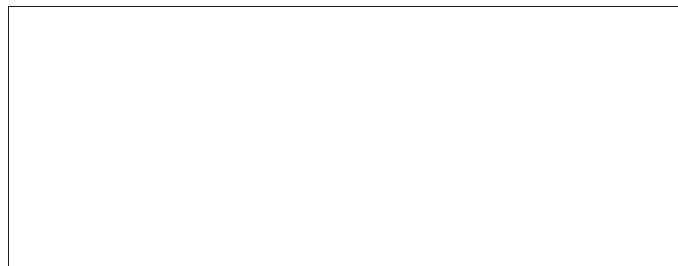
WEIGHT*	SHIPPING WEIGHT
Kg	Kg
5.2	6.9
9.1	11.4
15.9	19.1
24.1	28.2

40 Luxeon® Rebel 2.5W LEDs in each 280mm (11") length of fixture.

* Does not include mounting hardware



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