



GENERAL INFORMATION

ColorSource PAR Pearl is a variable white-light LED wash fixture that utilizes a mix of two different white LEDs that enable a user to set the color temperature anywhere between 2700 K and 6500 K. The Pearl array includes the same great feature set and high quality construction as their full color siblings including an impressively bright output and simple user interface.

Designed for installations that depend heavily on white light such as studios, houses of worship, and architectural installations, this array features flicker-free operation and an impressively smooth dimming curve.

APPLICATIONS

- Houses of worship
- Universities and schools
- Studios
- Hospitality
- Retail
- Exhibition centers
- Meeting rooms
- Clubs

PRODUCT FEATURES

- Variable CT from 2700 K to 6500 K
- Homogenized optics
- Simple user interface with seven-segment display
- powerCON in and thru
- DMX/RDM in and thru (5-pin)
- LED droop compensation
- Optically calibrated
- Tour-ready, aluminum housing

ORDERING INFORMATION

ColorSource PAR Pearl

MODEL	DESCRIPTION
CSPARPRL	ColorSource PAR Pearl, black
CSPARPRL45	ColorSource PAR Pearl RJ45, black

Note: ColorSource PAR Pearl luminaires ship with a hanging yoke and a power cable with connector of choice. See page 7 for connector options. C-clamps are not included. For additional color options, please add the following: -1 for white, -5 for silver or -8 for custom color.



PRODUCT SPECIFICATIONS

Source

LED details	40 Lumileds LUXEON® Z LEDs
Max lumens	5,709
Lumens per watt	50
L70 rating (hours to 70% output)	36,000 hours (estimate pending testing data)

Color

Colors used	Warm white, cool white
Color temperature range	2700 K- 6500 K
Calibrated array	Yes
Red shift	No

Optical

Beam angle range	15 degrees
Gate size	N/A
Aperture size	7.5in / 190mm
Pattern projection	No
Pattern size	N/A
Camera flicker control/Hz range	1,200Hz (default) and 25,000Hz (via RDM)
Notes	Lenses are available for beam control. See accessories section below

Control

Input method	DMX-512 via 5-pin XLR or RJ45 connector
Protocols	DMX, RDM
Modes (footprint)	Variable color temperature: ICt (2) Direct: IWCS (4) 1 channel: I (1)
RDM configuration	Yes
UI type	7-segment address display
Local control	Yes
Onboard presets	Yes (12)
Onboard sequences	No
Onboard effects	No
Fixture to fixture control	Yes
Notes	Local level control via UI

Electrical

Voltage range	100V - 240VAC, 50/60Hz
Input method	powerCON in and thru
Inrush	35A (first half-cycle) at 120V
Fixtures per circuit	10 (20A switched circuit, R20 module or similar)
Wattage (typical / standby)	114W / 1.6W at 120V
Current draw	0.96A at 120V

Thermal

Ambient operating temp	0-40° C (32-104° F)
Fan (controllable)	Yes (no)
Droop compensation	Yes
dB range	24.8dBa average at 1m
BTUs/hour	389

Physical

Materials	Die-cast aluminum and plastic
Color options	Black, white, silver or custom color
Mounting options	Yoke
IP rating	IP-20
Weight	8.3lb (3.77kg)
Included accessories	Hanging yoke, power cable
Notes	See accessories list for power cable options

Warranty

Full Fixture	5 years
LED Array	10 years

PRODUCT FEATURES



Multiple lens options available



WARM TO COOL
Bright white light from 2700 K to 6500 K

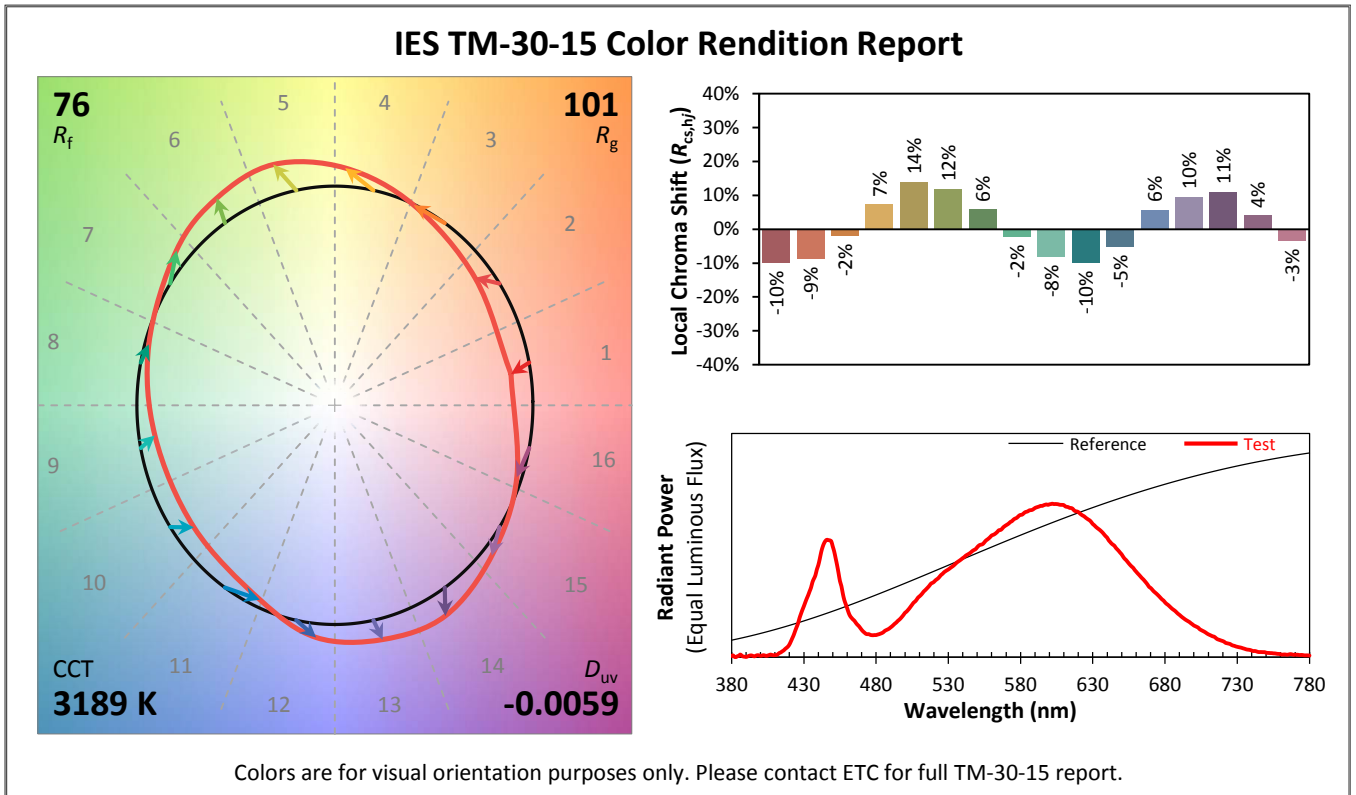


GREAT FOR STUDIOS
With refresh rates up to 25,000Hz, there is no need to worry about flicker on camera

SHAPE YOUR LIGHT
Choose from a wide variety of lenses to shape the light for any position

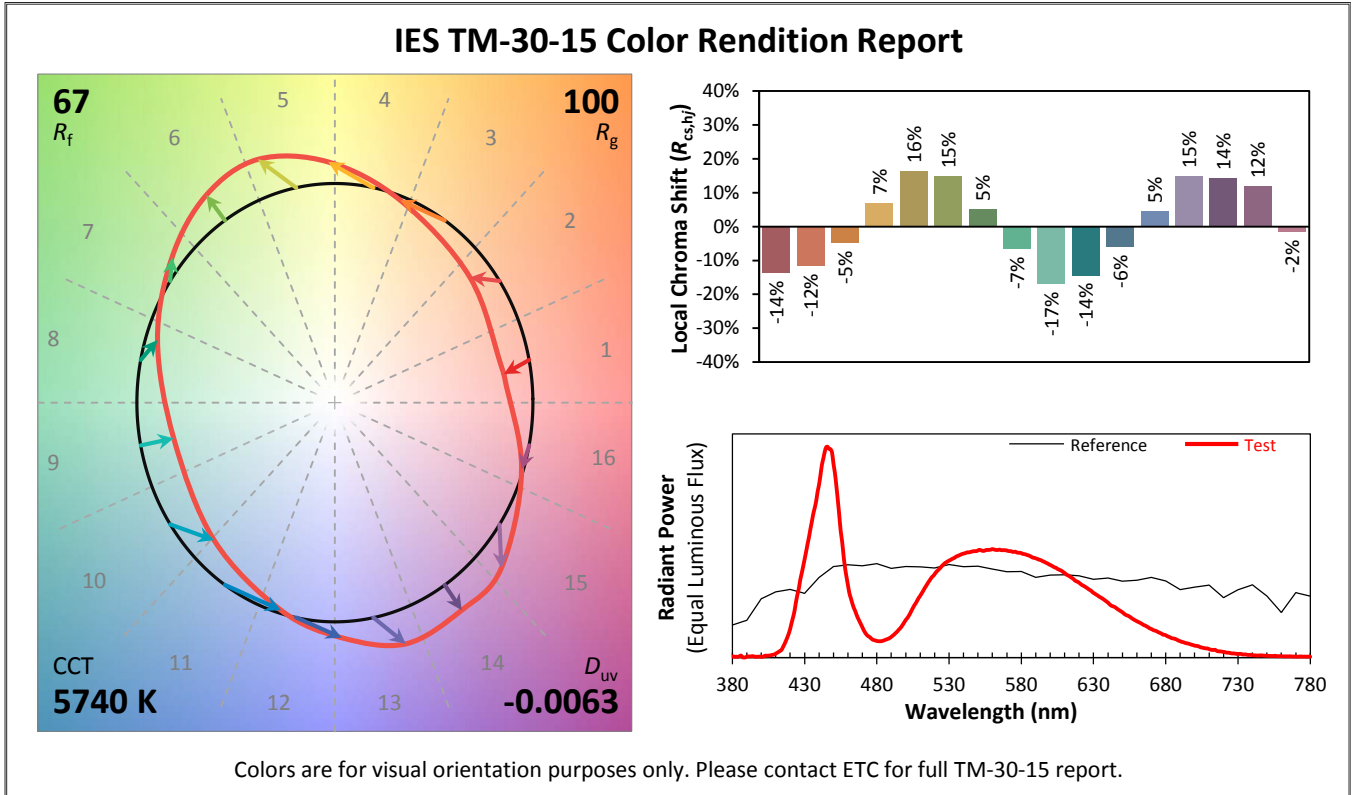
COLOR METRIC INFORMATION

TM-30-15 3200K - COLORSOURCE PAR PEARL



COLOR METRIC INFORMATION

TM-30-15 5600K - COLORSOURCE PAR PEARL



Additional Color Metrics

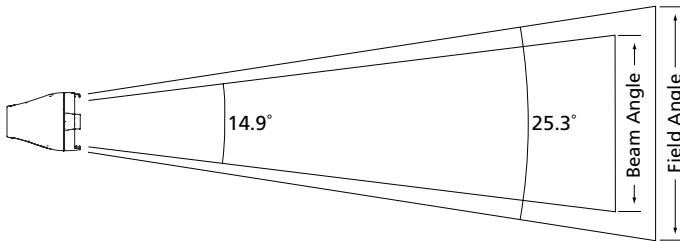
	CS PAR PEARL 3200K	CS PAR PEARL 5600K
CRI R_a (R_g)	81 (18)	74 (3)
TLCI	60	49

PHOTOMETRY

ColorSource PAR Pearl

Mode	Degree	Candela	Field Lumens	Beam Lumens	Power Consumption	Lumens Per Watt
CT Mode (3200 K)	26.3	53,333	3,196	1,867	79W	40.5
CT Mode (5600 K)	26.3	46,656	2,796	1,633	58.3W	48.0
Direct Mode Full (4000 K)	26.3	81,624	4,892	2,857	112.5W	43.5

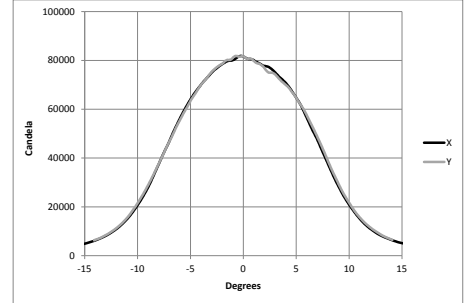
Metric conversions: For meters, multiply feet by 0.3048
 For lux, multiply footcandles by 10.76



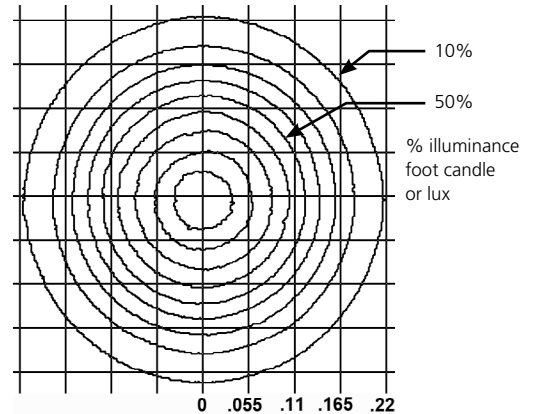
Throw Distance (d)	10ft	15ft	20ft	25ft	285.7ft
	3.0m	4.6m	6.1m	7.6m	87.1m
Field Diameter	4.7ft	7.0ft	9.3ft	11.7ft	-
	1.4m	2.1m	2.8m	3.6m	
Illuminance (fc)	816	363	204	131	1
Illuminance (lux)	8,786	3,905	2,196	1,406	10.76

To determine center beam illumination in footcandles at any throw distance, divide candela by the throw distance squared

For field diameter at any distance, multiply distance by 0.467
 For beam diameter at any distance, multiply by 0.269



Iso-Illuminance Diagram
 (Flat Surface Distribution)



ADDITIONAL ORDERING INFORMATION.

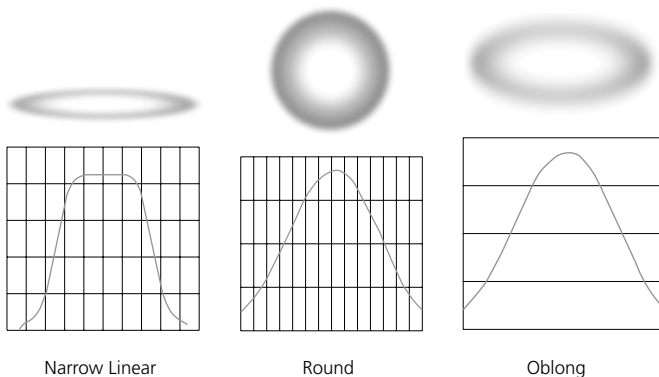
Secondary Lens Options

MODEL	DESCRIPTION: The following lenses are cut for ColorSource PAR luminaires and create round, linear or oblong field patterns as described below. These lenses are not sized for use in Selador® Classic fixtures.	
Narrow Linear Field	Note: This is the same material as Selador Classic lenses	
SELLVN-7.5	7.5" Very Narrow lens	Linear lenses may be combined to create desired field size
SELLN-7.5	7.5" Narrow lens	
SELLM-7.5	7.5" Medium lens	
SELLW-7.5	7.5" Wide lens	
SELLEW-7.5	7.5" Extra Wide lens	
Round Field		
SELRVN-7.5	7.5" Very Narrow lens (round field)	
SELRN-7.5	7.5" Narrow lens (round field)	
SELRM-7.5	7.5" Medium lens (round field)	
SELRW-7.5	7.5" Wide lens (round field)	
Oblong Field		
SELON-7.5	7.5" Narrow lens (oblong field)	
SELOM-7.5	7.5" Medium lens (oblong field)	
SELOW-7.5	7.5" Wide lens (oblong field)	

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. Thermal conditions can be affected by ambient temperatures and orientation. Based on the LED manufacturer's B50 L70 specification, a ColorSource Pearl luminaire will achieve ~70% of its initial output after 36,000 hours 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.

Typical Lens Field Profiles



Power Consumption at Full Intensity

MODEL	VOLTAGE (V)	CURRENT (A)	WATTS
ColorSource PAR Pearl	120 / 240	0.96 / 0.50	114/112

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 luminaire's output (thru) connector to provide link to successive luminaires

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

Luminaire Accessories

MODEL	DESCRIPTION
CSPARFSY	Yoke with floor-stand attachment
400BD	Barn door (Use only as a flexible top hat to diminish aperture glare. Not for beam shaping)
407CF	Color Frame (use for round and oblong lenses)
400L	Egg Crate Louver
400PTH3	Top Hat 3" Tube
400PTH6	Top Hat 6" Tube
400PHH	Half Hat 6" Tube
400CC	C-Clamp (does not ship with fixture)
400SC	Safety Cable (32")
DPSJ-25	25' powerCON to Edison input power cable with inline switch

CONTROL

DMX Input Channel Profiles

DMX Channel	ct (Variable color temperature)	dir (Direct)	1ch (One channel)
1	Intensity	Intensity	Intensity
2	Color temperature	Warm white	
3		Cool white	
4		Strobe*	

*Use DMX values of 0 or 255 for no strobe. Use values of 1-254 to increase the strobe rate from 1 per second up to 33 per second.

ADDITIONAL ORDERING INFORMATION

LED Wash Compared to PAR EA

Nominal									
	No Lens	Very Narrow	Narrow	Medium	Wide	Extra Wide	Narrow Oval	Medium Oval	Wide Oval
		25°	35°	45°	75°	n/a	20°x40°	30°x70°	35°x80°
D40									
Lustr+	17	21	27	42	68	100	21x37	25x60	30x82
Vivid	18	22	27	42	69	104	20x37	25x60	30x82
Fire	18	23	28	42	69	103	21x38	25x60	30x82
Ice	18	22	28	42	69	99	20x37	25x60	30x82
Studio HD	18	23	28	42	69	104	21x29	25x61	30x82
Studio D	22	25	30	43	70	105	24x39	28x62	32x80
Studio T	23	25	30	43	70	105	24x39	28x62	32x80
ColorSource PAR	25	26	32	50	76	100	26x37	29x58	30x63

*black fields denote old lens names

**all values are in degrees

PHYSICAL

ColorSource PAR Pearl Dimensions

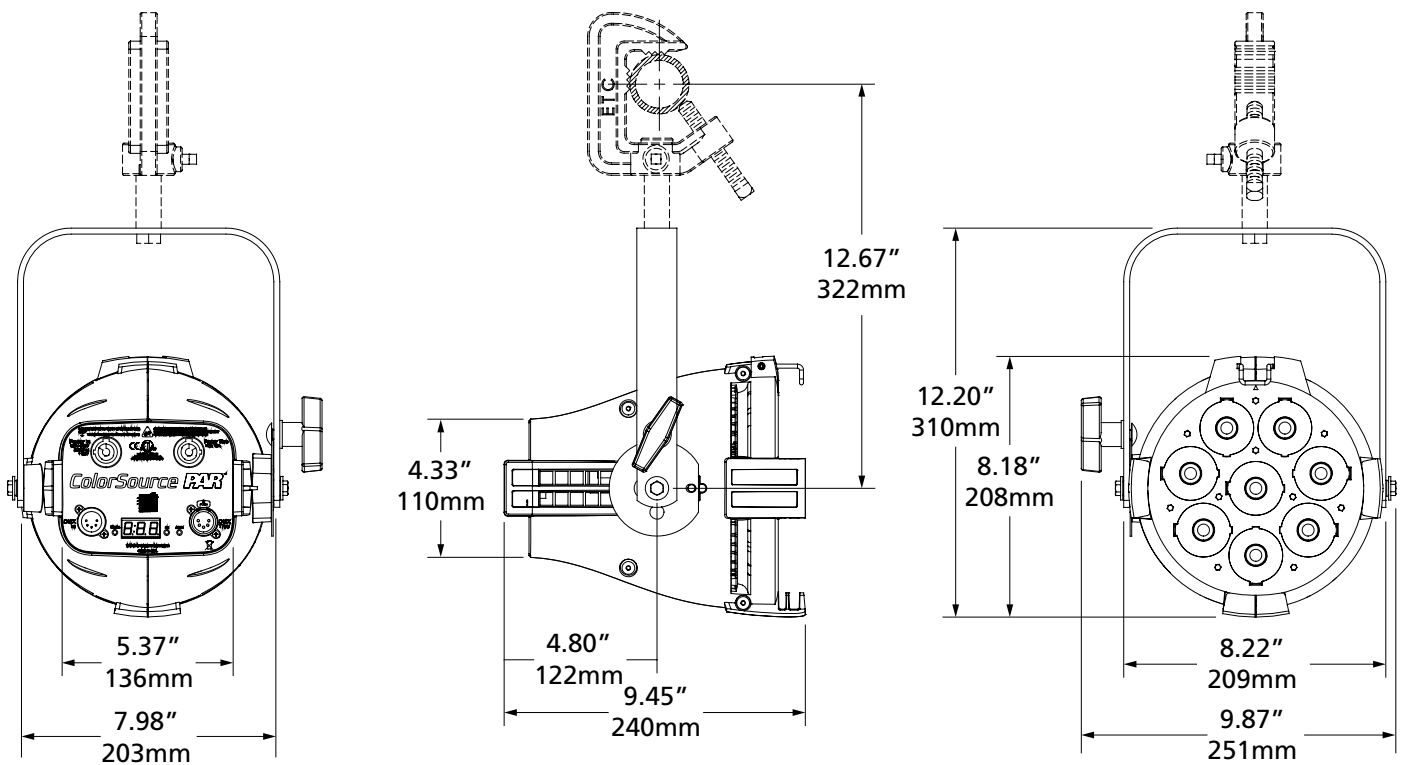
HEIGHT		WIDTH		DEPTH	
in	mm	in	mm	in	mm
12.20	310	7.98	203	9.45	240

* Does not include mounting hardware

ColorSource PAR Pearl Weights

WEIGHT*		SHIPPING WEIGHT	
lb	kg	lb	kg
8.3	3.77	10.1	4.59

* Does not include mounting hardware



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