



Type(s)
Project
Date
Notes

GENERAL INFORMATION

ColorSource PAR Pearl is a variable white-light LED wash fixture that utilizes a mix of two different white LEDs. This mixture enables you to set the color temperature anywhere between 2700 K and 5600 K. The Pearl array provides the same great feature set and high quality construction as its 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 a smooth dimming curve.

APPLICATIONS

- Theatres and performance centers
- 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
- 5-pin XLR
- LED droop compensation
- Optically calibrated
- Tour-ready, aluminum housing

ORDERING INFORMATION

ColorSource PAR Pearl

MODEL	DESCRIPTION	ETL PART NUMBER	CE PART NUMBER	
CSPARPRL	ColorSource PAR Pearl, black	7412A1002	7412A1202	

Note: ColorSource PAR Pearl luminaires ship with a hanging yoke and a power cable with connector of choice. See page 6 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)*	>60,000 hours

Color

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

Optical

Beam angle range	15 degrees (see page 6 for additional lenses for beam control)
Gate size	N/A
Aperture size	190 mm (7.5 in)
Pattern projection	No
Pattern size	N/A
Camera flicker control/Hz range	1,200 Hz (default) and 25,000 Hz (via RDM)

Control

Input method	DMX-512 via 5-pin XLR connector
Protocols	DMX512, RDM
Modes (footprint)	3 modes, see page 7
RDM configuration	Yes
UI type	Seven-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

***Note about LED luminaire lifetime:** ETC utilizes a nationally recognized third-party lab for luminaire testing according to IES LM-84. See etconnect.com/About/News/ETC-Fixture-Ratings-and-Warranties-Extended.aspx.

All LED sources experience some lessening of light output and some color shift over time. LED output will vary with thermal conditions. In individual situations, LEDs will be used for different durations and levels. This can eventually lead to minor alterations in color performance, necessitating slight adjustments to presets, cues or programs.

Electrical

Voltage range	100–240 VAC, 50/60 Hz
Input method	powerCON in and thru
Inrush	35 A (first half-cycle) at 120 V 49 A (first half-cycle) at 230 V
Fixtures per circuit*	10 (20 A switched circuit, R20 module or similar)
Wattage (typical / standby)	114 W / 1.6 W at 120 V 112 W / 1.5 W at 230 V
Current draw	0.96 A at 120 V 0.50 A at 230 V

*Note: All measurements are for 120 V, 60 Hz. Results may vary in different regions.

Thermal

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

Physical

Materials	Die-cast all metal housing
Color options	Black, white, silver or custom color
Mounting options	Yoke or floor stand (as optional accessory)
IP rating	IP20
Weight	3.77 kg (8.3 lb)
Included accessories	Hanging yoke, power cable
Notes	See page 6 for power cable options

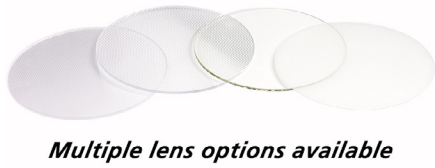
Warranty

Full fixture	5 years
LED array	10 years

Regulatory and Compliance

Approved regulatory standards	cETLus Listed Conforms to UL 1573 Listed Conforms to UL 924 Listed Certified to CSA C22.2 No. 166 Listed Certified to CSA C22.2 No. 141 Listed CE Compliant EAC Compliant
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PRODUCT FEATURES



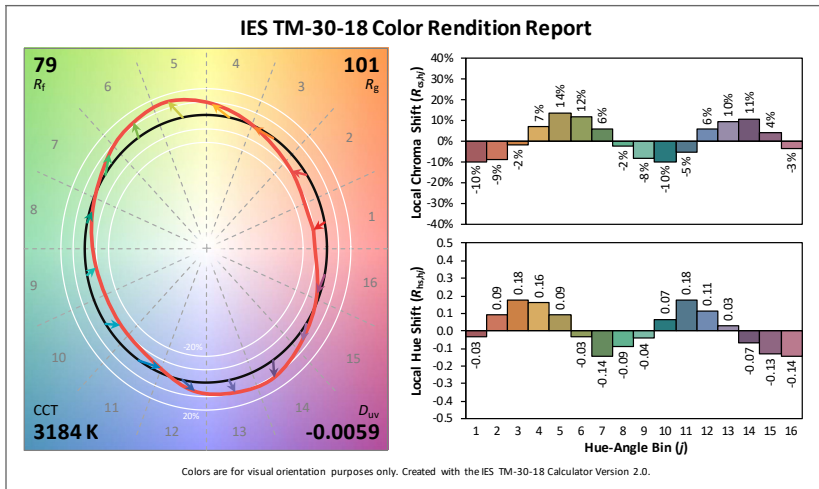
SHAPE YOUR LIGHT
Choose from a wide variety of lenses to shape the light for any position.

WARM TO COOL
Fixtures provide a full range of bright white light from 2700 K to 6500 K.

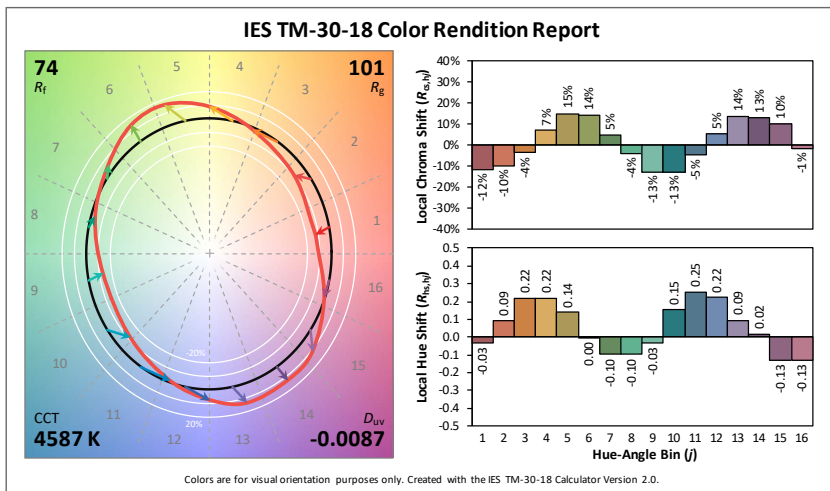
GREAT FOR STUDIOS
With refresh rates up to 25,000 Hz, there is no need to worry about flicker on camera.

COLOR METRIC INFORMATION

COLORSOURC PAR PEARL 3200 K TM-30-18

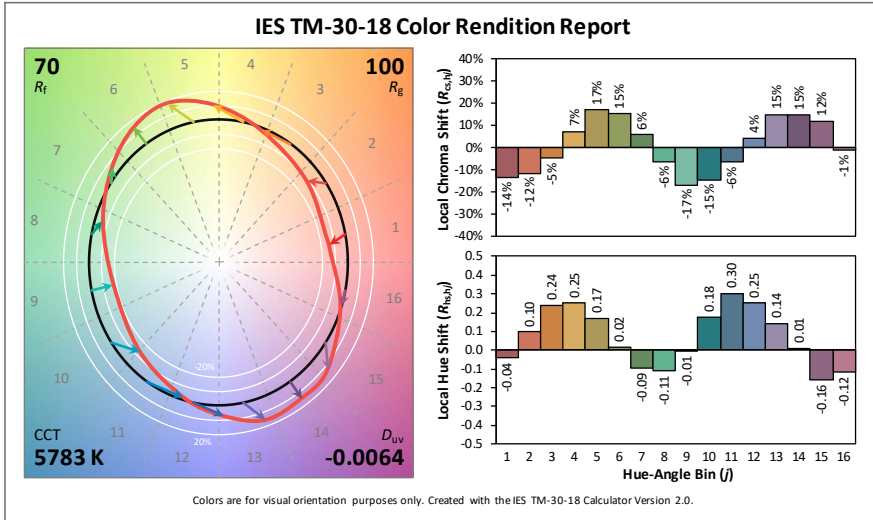


COLORSOURC PAR PEARL 4500 K TM-30-18



COLOR METRIC INFORMATION

COLORSORE PAR PEARL 5600 K TM-30-18



Additional Color Metrics

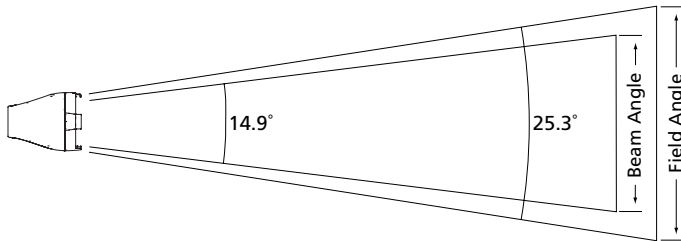
	CS PAR PEARL 3200 K	CS PAR PEARL 5600 K
CRI R_a (R_g)	81 (18)	74 (3)
TLCI	60	49

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	79	40.5
CT Mode (5600 K)	26.3	46,656	2,796	1,633	58.3	48.0
Direct Mode Full (4000 K)	26.3	81,624	4,892	2,857	112.5	43.5

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

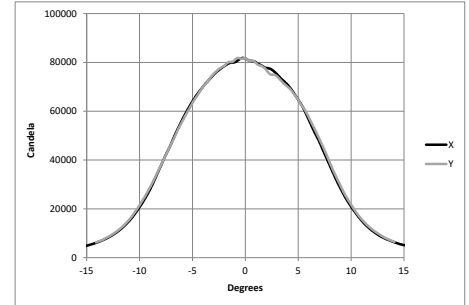


Throw Distance (d)	10 ft 3.0 m	15 ft 4.6 m	20 ft 6.1 m	25 ft 7.6 m	285.7 ft 87.1 m
Field Diameter	4.7 ft 1.4 m	7.0 ft 2.1 m	9.3 ft 2.8 m	11.7 ft 3.6 m	-
Illuminance (fc)	816	363	204	131	1
Illuminance (lux)	8,786	3,905	2,196	1,406	10.76

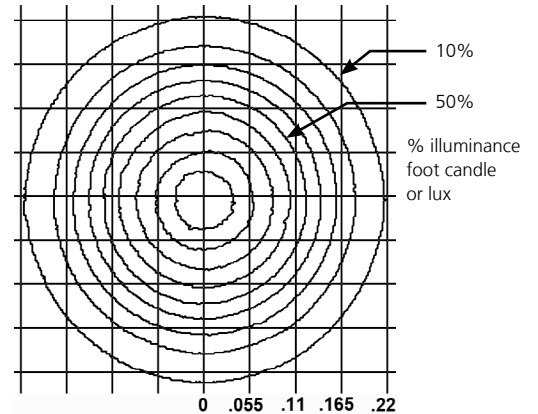
To determine center beam illumination in footcandles at any throw distance, divide candela by the throw distance squared.

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

Candela Plot



Iso-Illuminance Diagram (Flat Surface Distribution)



ADDITIONAL ORDERING INFORMATION

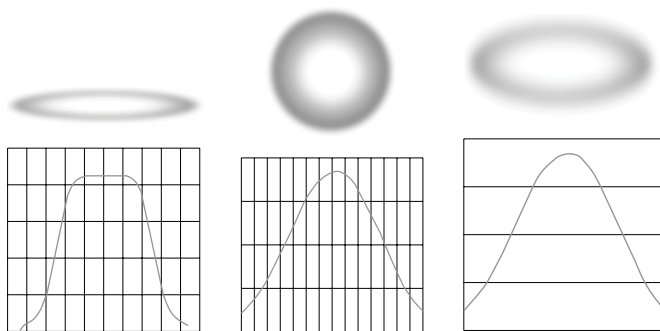
Secondary Lens Options

The following lenses are cut for ColorSource luminaires and create round, linear or oblong field patterns as described below. These lenses are not sized for use in Selador Classic fixtures. Linear lenses may be combined to create desired field size.

MODEL	DESCRIPTION	PART NUMBER	
Linear Field	Rigid polymer construction; does not require a media frame		
SELLN-7.5	190 mm (7.5 in) narrow lens	7410K1018	
SELLM-7.5	190 mm (7.5 in) medium lens	7410K1019	
SELLW-7.5	190 mm (7.5 in) wide lens	7410K1020	
SELLEW-7.5	190 mm (7.5 in) extra wide lens	7410K1021	
Round Field			
SELRN-7.5	190 mm (7.5 in) narrow lens	7410K1011	
SELRM-7.5	190 mm (7.5 in) medium lens	7410K1012	
SELRW-7.5	190 mm (7.5 in) wide lens	7410K1013	
SELRXW-7.5	190 mm (7.5 in) extra wide lens	7410K1039	
Oblong Field			
SELON-7.5	190 mm (7.5 in) narrow lens	7410K1014	
SELOM-7.5	190 mm (7.5 in) medium lens	7410K1015	
SELOW-7.5	190 mm (7.5 in) wide lens	7410K1016	

[Lenses compared to Source Four PAR EA](#)

Typical Lens Field Profiles



LED Wash Lenses

Nominal									
D40	No Lens	Very Narrow	Narrow	Medium	Wide	Extra Wide	Narrow Oval	Medium Oval	Wide Oval
Lustr+	17	21	27	42	68	100	21x37	25x60	30x82
Vivid	18	22	27	42	69	104	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

All values are in degrees.

ADDITIONAL ORDERING INFORMATION

Power Input Cables

Use information below to order 5' power input leads with factory-fitted connectors. CE Fixtures ship with powerCON to bare end cables in the box.

MODEL	DESCRIPTION	PART NUMBER (NOT CE)	
DPA-A	1.5 m (5 ft) powerCON to parallel blade U-ground (Edison) connector	7410B7037-A	
DPA-B	1.5 m (5 ft) powerCON to 20 A two-pin and ground (stage-pin) connector	7410B7037-B	
DPA-C	1.5 m (5 ft) powerCON to grounded 20 A twistlock connector	7410B7037-C	
DPA-X	1.5 m (5 ft) powerCON to bare-end power input lead	7410B7037-X	

Power-Thru Jumpers

Note: Power-thru jumpers connect to luminaire's output (thru) connector to provide link to successive luminaires.

MODEL	DESCRIPTION	PART NUMBER	
DPJ-5	1.5 m (5 ft) powerCON to powerCON fixture-to-fixture jumper	7410B7020	
DPJ-10	3.0 m (10 ft) powerCON to powerCON fixture-to-fixture jumper	7410B7010	

Luminaire Accessories

MODEL	DESCRIPTION	PART NUMBER	
CSPARFSY	Yoke with floor-stand attachment	7412K1000	
400BD	Barn door (use only as a flexible top hat for diminishing aperture glare, not for beam shaping)	PSF1019	
407CF	Color frame (use for round and oblong lenses)	7061A3007	
400L	Egg crate louver	PSF1028	
400PTH3	Top hat 76 mm (3 in) tube	PSF1022	
400PTH6	Top hat 152 mm (6 in) tube	PSF1023	
400PHH	Half hat 152 mm (6 in) tube	PSF1027	
400CC	C-Clamp (does not ship with fixture)	7060A2009 (not CE)	
400SC	Safety cable 762 mm (30 in)	7060A1022	
DPSJ-25	7.6 m (25 ft) PowerCON-to-Edison input power cable with inline switch	7400B7030 (not CE)	

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 Hz per second up to 33 Hz per second.

PHYSICAL

ColorSource PAR Pearl Dimensions*

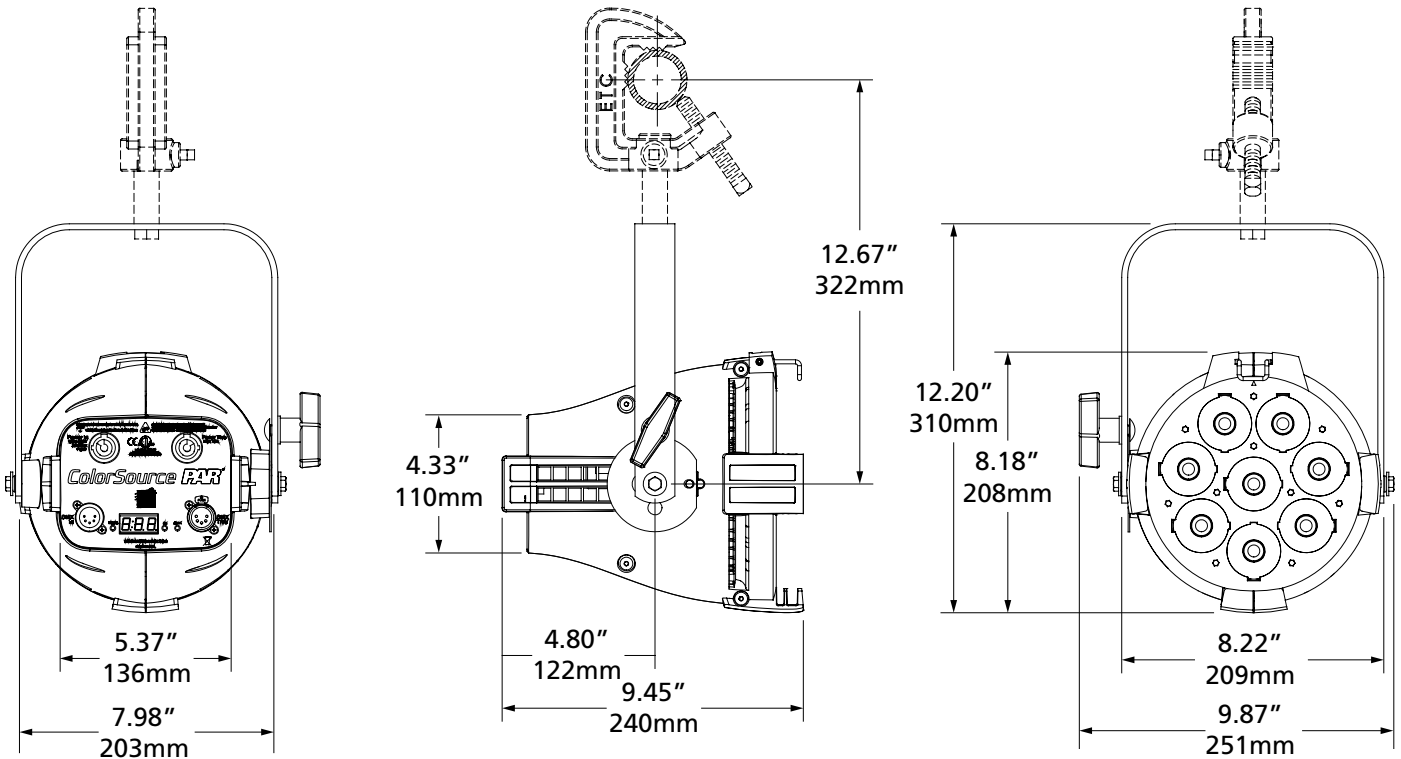
HEIGHT		WIDTH		DEPTH	
in	mm	in	mm	in	mm
12.20	310	7.98	203	9.45	240

* 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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