



landscape • entertainment • architectural • hospitality • illumination

LANDSCAPE ILLUMINATION

January 2015





SL-11-BAR



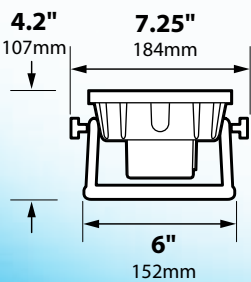
PAR36



SL-11-AB



SL-11-BAT



SPECIFICATIONS:

Housing:

Aiming Bracket:

Lens:

Lamp Supplied:

Lamp Options:

Socket:

Wiring:

Connector:

Mounting:

Finish

Finish Options

ACCESSORIES:

Color Acrylic Lens:

Aiming Bracket:

Additional Cord:

Cast brass

Cast brass w/ black composite thumb knobs

High impact clear acrylic

25 watt PAR36 VWFL (2000 hours average rating)

35w or 50w PAR36 WFL 30°

See back panel for light bulb options (50w max)

None, PAR36 lamp supplies connection via 1/4" quick connect or stud terminal

15 feet 18/2 SJTOW cord (available up to 50 ft.)

Brass, nickel plated liquid tight straight bushing from side of fixture

Surface mount aiming bracket on -AB models only.

For securing to wall or floor use appropriate stainless steel screws and holes (provided)

Unfinished brass

Black acid treatment add (-BAT) to catalog number

Brass acid rust add (-BAR) to catalog number



Blue, Red, Green, Amber, White

(FA-35-AL- specify color)

FA-105 (includes black thumb knobs)

Sold per foot in 5 ft lengths

Add total number of feet to catalog number

VOLTAGE: 12v

LUMENS: NA

CCT: 2700K

BEAM SPREADS: 5°-55°

IP: NA



ORDERING INFORMATION:

SL-11 25 watt PAR36 VWFL
Cast Brass Underwater Light w/
15' cord

SL-11-AB 25 watt PAR36 VWFL
Cast Brass Underwater Light w/
aiming bracket & 15' cord



SPECIFICATIONS:

Housing:

Cast brass

Lens:

High impact clear acrylic

Lamp Supplied:

10w, **ARROW PAR36 LED** (40° / 50,000 hours average rating)

Lamp Options:

10 watt, 15°, 24° or 60° PAR36 LED (50,000 hours average rating)

13 watt, 15°, 40° AR111 LED (50,000 hours average rating)

Socket:

None, PAR36 lamp supplies connection via stud terminal

Wiring:

15 feet 18/2 SJTOW cord (available up to 50 ft.)

Connector:

Brass, nickel plated liquid tight straight bushing from side of fixture

Finish

Unfinished brass

Finish Options

Black acid treatment add (-BAT) to catalog number

Brass acid rust add (-BAR) to catalog number

ACCESSORIES:



Color Acrylic Lens:

Blue, Red, Green, Amber, White
(FA-35-AL- specify color)

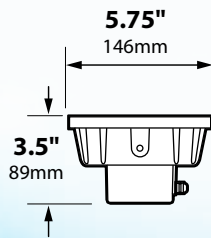
Additional Cord:

Sold per foot in 5 ft lengths

Add total number of feet to catalog number



SL-11-LED



PAR36 LED



AR111 LED

ORDERING INFORMATION:

SL-11 -LED **10 watt PAR36 LED**
Cast Brass Underwater Light w/15' Cord

SL-11-AR111LED **13 watt AR111 LED**
Cast Brass Underwater Light w/15' Cord

VOLTAGE: 12v

LED LUMENS: 10w PAR 36: 400 = 50w Halogen

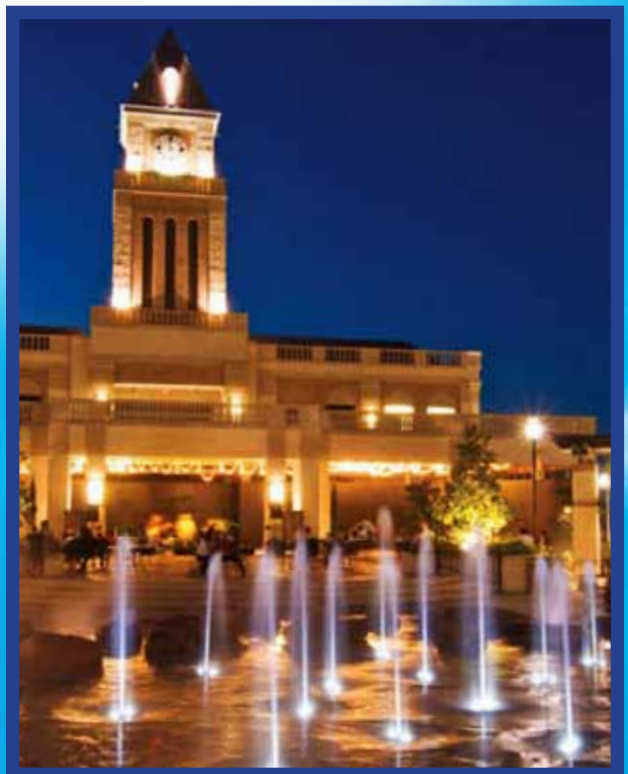
BEAM SPREADS: 15° /24° /40° /60°

LED LUMENS: 13w AR111: 510 = 75w Halogen

BEAM SPREADS: 15° /40°

CCT: 3000K

IP: 68





SL-33-AB-LED

SPECIFICATIONS:

Housing:
Aiming Bracket:
Lens:
Lamp Supplied:

Cast brass
 Cast brass w/ black composite thumb knobs
 High impact clear tempered flat glass
20w MR16 ULTRA FL(BAB) (10,000 hours average rating)
THE 10,000 HOUR ULTRA IS NOW STANDARD

Lamp Options:



35w MR16 TITAN (18,000 hours average rating)
6w ARROW MR16 LED* (50,000 hours average rating)
4w ARROW MR16 LED (50,000 hours average rating)
4w ARROW SAVER MR16 LED (40,000 hours average rating)
 (See back panel for light bulb options, 50w max)

Socket:

GU5.3 Bi Pin ceramic with 250°C lead wires

Wiring:

15 feet 18/2 SJTOW cord

Connector:

Brass, nickel plated liquid tight straight bushing from bottom of fixture. Side mount wire (-SM) available
 Surface mount aiming bracket on -AB models only.
 For securing to wall or floor use appropriate stainless steel screws and holes (provided)

Mounting:

Unfinished brass

Finish

Finish Options

Black acid treatment add (-BAT) to catalog number
 Brass acid rust add (-BAR) to catalog number

ACCESSORIES:



Color Glass Lens:

Blue, Red, Green, Amber, White
 (FA-11-SL33, specify color)

Angle Collar:

FA-155 (Cast brass)

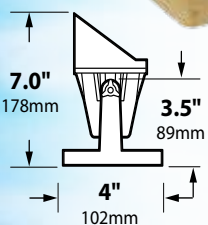
Aiming Bracket:

FA-154 (includes black thumb knobs)

Additional Cord:

Sold per foot in 5 ft lengths, Add total number of feet to catalog number

* 6w LED available on side mount models only



20w MR16

6w MR16 ARROW LED*

4w MR16 ARROW LED

4w MR16 SAVER LED



*Side Mount Only



SL-33-ABAC-LED



SL-33-AB-LED



SL-33-AC-LED-BAT



SL-33-SM-AC-LED



SL-33-LED

ORDERING INFORMATION:

- SL-33-ULT 20w MR16 ULT FL (BAB) 10,000 hour Cast Brass Underwater Light w/15' cord
- SL-33-SM-ULT SL-33-ULT w/ side mount
- SL-33-AB-ULT SL-33-ULT w/ aiming bracket
- SL-33-AC-ULT SL-33-ULT w/ angle collar
- SL-33-AB-AC-ULT SL-33-ULT w/ aiming bracket & angle collar
- SL-33-SM-AC-ULT SL-33-ULT w/ side mount & angle collar

Note: For SL-33 50,000 hour LED model replace -ULT with -LED in part number.

VOLTAGE: 12v
LED LUMENS: 4w SAVER: 180 = 20w Halogen
BEAM SPREADS: 15°/40°
LED LUMENS: 4w ARROW: 200 = 20w Halogen
BEAM SPREADS: 12°/36°
LED LUMENS: 6w ARROW 430 = 35w Halogen
BEAM SPREADS: 40°
CCT: 2800K-3100K
IP: 68



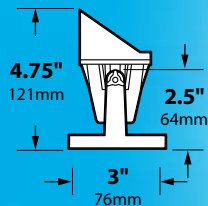
SL-40-ACAB-LED



MR11



MR11 LED*



SPECIFICATIONS:

Housing:
Aiming Bracket:
Lens:
Lamp Supplied:

Cast brass
 Cast brass w/ black composite thumb knobs
 High impact clear tempered flat glass
20w MR11 ULTRA FL(FTD) (10,000 hours average rating)
THE 10,000 HOUR ULTRA IS NOW STANDARD

Lamp Options:

2w ARROW MR11 LED* (50,000 hours average rating)
 *Note: MR11 LED must be factory installed into new SL-40 fixtures. It will not fit pre 2014 models

Socket:
Wiring:
Connector:

See back panel for light bulb options, (35w max)
 GU5.3 Bi Pin ceramic with 250°C lead wires
 15 feet 18/2 SJTOW cord
 Brass, nickel plated liquid tight straight bushing from bottom of fixture. Side mount wire (-SM) available

Mounting:

Surface mount aiming bracket on -AB models only
 For securing to wall or floor use appropriate stainless steel screws and holes (provided)

Finish
Finish Options

Unfinished brass
 Black acid treatment add (-BAT) to catalog number
 Brass acid rust add (-BAR) to catalog number

ACCESSORIES:



Color Glass Lens:

Blue, Red, Green, Amber, White
 (FA-11-40, specify color)

Angle Collar:

FA-157 (Cast brass)

Aiming Bracket:

FA-158 (includes black thumb knobs)

Additional Cord:

Sold per foot in 5 ft lengths.
 Add total number of feet to catalog number



SL-40-AB-LED



SL-40-AC-LED



SL-40-LED



SL-40-AC-SM-LED

ORDERING INFORMATION:

- SL-40-LED** 2w MR11 LED (40°) 50,000 hour Cast Brass Underwater Light w/15' cord
- SL-40-SM-LED** SL-40-LED w/ side mount
- SL-40-AB-LED** SL-40-LED w/ aiming bracket
- SL-40-AC-LED** SL-40-LED w/ angle collar
- SL-40-AB-AC-LED** SL-40-LED w/ aiming bracket & angle collar
- SL-40-SM-AC-LED** SL-40-LED w/ side mount & angle collar

Note: For SL-40 10,000 hour halogen lamp model replace -LED with -ULT in part number. Halogen models will not accommodate MR11 LED light sources

VOLTAGE: 12v
LED LUMENS: 2w Arrow: 90 = 10w MR11 Halogen
BEAM SPREADS: 15° /40°
CCT: 3000K
IP: 68





SL-51ST-BAT

SPECIFICATIONS:

Housing:

Cast brass base & starfish top; Brass nickel-plated liquid tight straight bushing.

Lens:

High impact clear acrylic

Lamp Supplied:

20w MR16 ULTRA FL(BAB) (10,000 hours average rating)
THE 10,000 HOUR ULTRA IS NOW STANDARD

Lamp Options:

35w MR16 TITAN (18,000 hours average rating)
6w ARROW MR16 LED* (50,000 hours average rating)
4w ARROW MR16 LED (50,000 hours average rating)
4w ARROW SAVER MR16 LED (40,000 hours average rating)
2w or 4w LED PANEL (50,000 hours average rating)
(See back panel for light bulb options, 50w max)

Socket:

GU5.3 Bi Pin ceramic with 250°C lead wires
LED Panel models require no socket. LED is hard wired inside fixture

12v External Driver:

For Led Panel Models Only: 4w 350mA output, 12v AC input.
Voltage range of 9 to 18 volts with optimum operating range of 10 to 15 volts for consistent performance and brightness.
For use with magnetic transformers only.

Wiring:

15 feet 18/2 SJTOW cord

Conector:

Brass, nickel plated liquid tight straight bushing

Mounting:

None

Finish

Unfinished brass

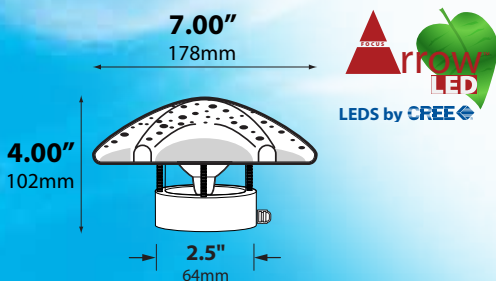
Finish Options

Black acid treatment add (-BAT) to catalog number
Brass acid rust add (-BAR) to catalog number

ACCESSORIES:

Additional Cord:

Sold per foot in 5 ft lengths, (not to exceed 50 feet)
Add total number of feet to catalog number



VOLTAGE: 12v -277v
LED LUMENS: 4w SAVER: 180 = 20w Halogen
LED LUMENS: 4w ARROW: 200 = 20w Halogen
LED LUMENS: 6w ARROW 430 = 35w Halogen
LED LUMENS: 2w Panel: 150 = 10w Halogen
LED LUMENS: 4w Panel 300 = 20w-35w Halogen
CCT: 2800K-3100K
IP: 68



ORDERING INFORMATION:

SL-51ST-ULT 20w MR16 10,000 hour halogen Cast Brass Underwater Light w/15' cord

Note: For SL-51ST 50,000 hour LED model replace -ULT with -LED in part number.



THE OCTOPUS



UL 676
IP68



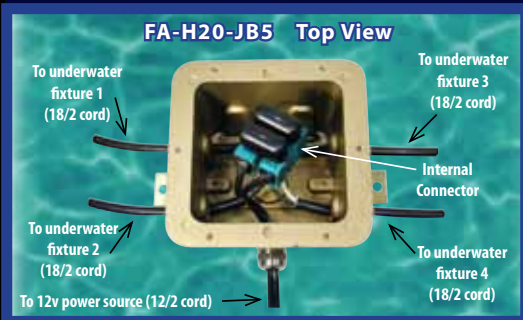
"The OCTOPUS" underwater J-Box is designed for connection of up to eight 12v 18/2 SJTOW cord for under water fixtures. Tap sizes available - PG9, PG11, 1/2"NPS & 3/4" NPS. For 1/2" or 3/4" service conduit contact FOCUS. For additional PG9 hole with plug, specify at time of order.
NOTE: Brass liquid tight fittings recommended. Fitting size must match cable size to ensure water proof connection.

SPECIFICATIONS

- Construction:** 20 cubic inch cast brass body and cast brass cover
- Gasket:** Black silicone, 50 durometer
- Fittings:** Standard J-box not supplied with fittings. Brass, nickel plated PG9 Liquid Tight available. Specify number required at time or order
- Fitting Options:** Brass, nickel plated PG11 Liquid Tight
- Internal Connector:** Teal high temperature thermal plastic housing with stainless steel barrel lugs and 3M dielectric sealing tape; 200 watt maximum load
- Feed wire:** Standard J-box not supplied with feed wire. 12-2C cable available in increments of 5 feet starting at 25 feet. Specify at time of order
- Mounting:** Surface mount bracket attached

CATALOG NO.	DESCRIPTION	EST. WT.
FA-H20-JB	Underwater J-Box	4.00 Lbs.
FA-H20-JB25F	Underwater J-Box (w/25ft 12/2C feed wire)	5.50 Lbs
FA-H20-JB50F	Underwater J-Box (w/50ft 12/2C feed wire)	7.00Lbs
FA-H20-JB75F	Underwater J-Box (w/75ft 12/2C feed wire)	8.50 Lbs
FA-H20-JB100F	Underwater J-Box (w/100ft 12/2C feed wire)	10.00 Lbs

Supplied standard without holes or fittings. To receive a tapped hole and liquid tight fitting specify at time of order. Specify number of fixture ports PLUS 1 feed for 12/2C lead wire eg: 4 = 3 Fixture ports plus 1 Lead Wire port. Designed for up to eight fixtures add (-1 to - 9) to above catalog number. Fits all **FOCUS** underwater fixtures. If you are using another manufacturers fixture you must specify the desired size and location of holes at time of order. **Focus** does not carry all types & sizes of liquid tight fittings. **Warranty Disclaimer: Alterations of product are not recommended by FOCUS and voids warranty.**

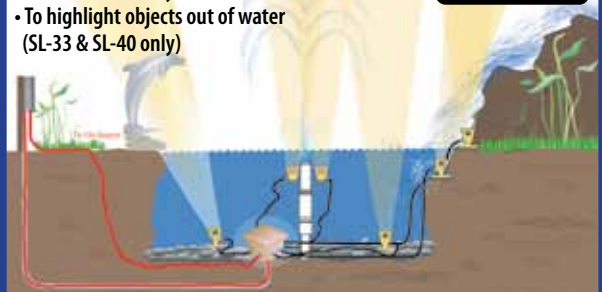


Available in unfinished Brass, Black Acid Treatment (add -BAT), or Brass Acid Rust (add -BAR)



APPLICATIONS:

- Dry niche - Spill way or fountain (SL-33 & SL-40 only)
- Underwater - Spill way or fountain
- Surface area illumination (SL-33 & SL-40 only)
- To highlight objects out of water (SL-33 & SL-40 only)



LIGHT BULB OPTIONS

SL-11 LAMP OPTIONS

Focus Catalog #	Watts	Base	Description	Beam Angle(s)	Color Temp (K)	Average Life	Warranty
FL-18-25VWVFL	25	1/4" Stud Terminal	PAR36	VWFL 55°	2900	2000	NA
FL-08-35WFL	35	1/4" Stud Terminal	Halogen PAR36	WFL 30°	2900	4000	NA
FL-LED-PAR36	10	1/4" Stud Terminal	PAR36 LED	10°/24°/40°/60°	3000	50,000	5 yr
FL-LED-AR111	13	1/4" Stud Terminal	AR111 LED	15°/40°	3000	50,000	5 yr
FL-46	50	1/4" Stud Terminal	PAR36	VWFL 55°	2900	2000	NA
FL-47	50	1/4" Stud Terminal	PAR36	WFL 37°	2900	2000	NA
FL-18-25WFL	25	1/4" Stud Terminal	PAR36	WFL 37°	2900	2000	NA
FL-48	50	1/4" Stud Terminal	PAR36	NSP 9°	2900	2000	NA
FL-08-35WNSP	35	1/4" Stud Terminal	Halogen PAR36	NSP 8°	2900	4000	NA
FL-37	50	1/4" Stud Terminal	Halogen PAR36	FL 30°	2900	4000	NA
FL-38	50	1/4" Stud Terminal	Halogen PAR36	NSP 8°	2900	4000	NA
FL-39	50	1/4" Stud Terminal	Halogen PAR36	VNSP 5°	2900	4000	NA

SL-33 LAMP OPTIONS

Focus Catalog #	Watts	Base	Description	Beam Angle	Color Temp (K)	Average Life	Warranty
FL-13-BABULT	20	GU5.3 Bi-Pin	Halogen MR16 ULTRA	FL (BAB) 36°	3000	10,000	NA
FL-13-BABTITAN	20	GU5.3 Bi-Pin	Halogen MR16 TITAN	FL (BAB) 36°	3000	12,000	NA
FL-15-FMWULT	35	GU5.3 Bi-Pin	Halogen MR16 TITAN	FL (FMW) 36°	3000	10,000	NA
FL-LE-DMR166W40	6	GU5.3 Bi-Pin	ARROW LED MR16	FL (BAB) 40°	2800-3000	50,000	5 yr
FL-LE-DMR16BAB	4	GU5.3 Bi-Pin	ARROW LED MR16	FL (BAB) 35°	2800-3000	50,000	10 yr
FL-LE-DMR16ESX	4	GU5.3 Bi-Pin	ARROW LED MR16	SP (ESX) 12°	2800-3000	50,000	10 yr
FL-LE-DMR16AS40	4	GU5.3 Bi-Pin	ARROW SAVER LED MR16	FL 40°	2800-3100	40,000	5 yr
FL-LE-DMR16AS15	4	GU5.3 Bi-Pin	ARROW SAVER LED MR16	SP 15°	2800-3100	40,000	5 yr
FL-13ESXFG	20	GU5.3 Bi-Pin	Halogen MR16	SP (ESX) 12°	2900	5,000	NA
FL-15FMWFG	35	GU5.3 Bi-Pin	Halogen MR16	FL (FMW) 36°	2900	5,000	NA
FL-10EXN-FG	50	GU5.3 Bi-Pin	Halogen MR16	FL (EXN) 36°	2900	5,000	NA
FL-10-EXTFG	50	GU5.3 Bi-Pin	Halogen MR16	SP (EXT) 12°	2900	5,000	NA
FL-13-BAB60	20	GU5.3 Bi-Pin	Halogen MR16	VWFL 60°	2900	5,000	NA
FL-15-FMW60	35	GU5.3 Bi-Pin	Halogen MR16	VWFL 60°	2900	5,000	NA
FL-10-VWFLFG	50	GU5.3 Bi-Pin	Halogen MR16	VWFL 60°	2900	5,000	NA

SL-40 LAMP OPTIONS

Focus Catalog #	Watts	Base	Description	Beam Angle	Color Temp (K)	Average Life	Warranty
FL-66-ULT	20	GU4 Bi-Pin	Halogen MR11 ULTRA	FL (FTD) 30°	3000	10,000	NA
FL-LED-MR1140	2	GU5.3 Bi-Pin	ARROW LED MR11	FL 40°	2800-3000	50,000	5 yr
FL-LED-MR1115	2	GU5.3 Bi-Pin	ARROW LED MR11	FL 15°	2800-3000	50,000	5 yr
FL-65	20	GU4 Bi-Pin	Halogen MR11	SP 10°	2900	2,000	NA
FL-67	35	GU4 Bi-Pin	Halogen MR11	SP 10°	2900	2,000	NA
FL-66	20	GU4 Bi-Pin	Halogen MR11	FL 30°	2900	2,000	NA
FL-68	35	GU4 Bi-Pin	Halogen MR11	FL 30°	2900	2,000	NA

Red = SUPPLIED • BLUE = RECOMMENDED • GREEN = RECOMMENDED LED OPTION

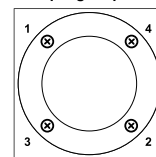
FL= Flood Light • WFL= Wide Flood Light • VWFL=Very Wide Flood Light • SP= Spot • NSP= Narrow Spot Light

NOTE: Do not loosen or remove the liquid tight connector. This will damage the factory installed seal which will void the fixture and lamp warranties and may result in possible leakage. Make sure gasket seats properly to form a water tight seal.

Insert screws and tighten in an alternating torque sequence to ensure proper water tight seal. See illustration on the right.

Failure to due so may cause water leakage and void fixture and lamp warranties

Torquing Sequence



There are 3 main conditions that will affect beam spread and light intensity: Depth, Clarity and Movement

Depth: The deeper the water the more light will spread. For best results keep depth at 4 feet or less.

Clarity: Clean or clear water will produce the maximum quantity of light. Dirty water will reduce the light dramatically. More wattage or tighter beam spread will be needed to see the impact of the light source or effect in murky water.

Movement: Movement will distort or increase the beam spread. The top of the water acts as a lens. Clear lenes, or no mobvement, will allow the beam to remain true or accurate. More water movement results in larger increases in spread and constant light movement.



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