

S1H | SATURN HALO



SPECIALTY LIGHTS | Saturn Series | 1.75" Ø × .868" H
2W (161lm) | 10.5-16 VAC | Integrated LED



FEATURES

- U.S.-made light engine and driver.
- CNC-machined, corrosion-resistant 6061 aluminum, 304 stainless steel, or C360 Brass.
- IP68 enclosure for dust-tight sealing and continuous submersion in ponds, water features, and in-ground wet locations.
- Dimmable configurations available; see Specifications and ordering guide for details. Standard fixtures are non-dimmable.
- Integrated body serves as the heat sink, drawing heat away from the LED module and shedding it through a high-surface-area profile for dependable operation.
- Built-in surge protector safeguards internal electronics from voltage fluctuations and power surges.
- High-performance 3-step bin LED with an L70 rating of over 100,000 hours.
- [20-year manufacturer limited warranty.](#)
- *Fixtures installed fully submerged in saltwater carry a 2-year limited warranty due to environmental conditions.*
- ETL listed to the UL 1838 standard, with IES Files Available (See page 4).
- 3000K fixtures available in all finishes, wattages, and optics, in stock and ready to ship. Other color temperatures are non-stock and require a lead time of 5-7 business days.

POWER CONSUMPTION

Candela Power & IES charts can be found on page 4

COLOR TEMPERATURE	WATTAGE	VA	LUMENS	ADDITIONAL COLOR TEMP OPTIONS	
3000K*	1W	2VA	161LM	2700K	5000K
				Amber	Blue
				Royal Blue	Green
				Red	Fuchsia
				Lavender	

* Indicates stocked items. Non-stocked items require 5-7 business days additional lead time, special order deposit and are non-refundable. Fuchsia and Lavender require additional lead time above the standard 5-7 business days.

SPECIFICATIONS

Materials

CNC-machined from billet 6061-T6 aluminum, 316 stainless steel, or C360 Brass with 316 stainless steel hardware.

Finish

BLK: Marine-grade black anodize for lasting performance. UV/corrosion protection.
BR: Raw, brushed brass; will tarnish/patina naturally.
SS: Precision-machined 304 stainless steel. Resists rust, pitting, and staining.

Shroud Options

S1 Saturn Shroud — optional accessory. Field-installable, two-point mount; four mounting slots enable near-full rotation; glare and line-of-sight control. (See page 2 for details).

Wattage

2W delivering up to 161 lm.

Voltage

10.5-16VAC. Requires low voltage transformer or step down transformer.

Light Engine

US Built Led module with Cree Diode and Metal core PCB for better heat dissipation.
 CRI 80 (CRI 90 upon request) CCT 2700K & 3000K. McAdam 3 step LED binning to ensure color consistency.

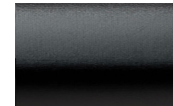
Optics

Optics available in 12°, 25°, 40°, and 60° beam angles.

Lead Wire

90" 22 AWG Tinned Copper

AVAILABLE FINISHES:



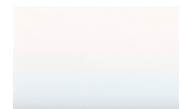
BLK
Black



BR
Brass



SS
Stainless Steel



WHT
White

APPLICATION NOTES

Black Finish

For fresh water, fish ponds, and fish tanks only. Not suitable for salt water, chlorinated water, or harsh chemicals.

Stainless Steel Finish

Suitable for fresh water, salt water, chlorinated water, fish ponds, and fish tanks.

**Fixtures installed fully submerged in saltwater carry a 2-year limited warranty due to environmental conditions.*

Brass Finish

For fresh water only. Not suitable for fish applications.

White Finish

Not suitable for underwater applications.

Dimming Options

Standard fixtures are non dimmable. Dimmable Option valuable with constant current LED power supply connected in series with the fixtures.

Dimming Method: Phase Dimming (TRI-AC/ELV) or 0-10V dimming.

Mounting

Standard two-point mount through integrated holes using (2) #6×1¼" 18-8 SS Phillips flat-head SMS; optional swivel adds 95°/45° tilt (See page 2 for details)

Certifications & Ratings

ETL listed to UL1838, IP68 Standard.



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ORDERING GUIDE

EXAMPLE: S1H 203 SS BLU UM SWIVEL BLK

MODEL

S1H S1H Specialty Light Saturn Series Submersible Fully Integrated	WATTAGE	OPTICS	FINISH	COLOR TEMPERATURE
	DIM (Dimmable)	1 (12°)	<input type="checkbox"/> BLK (Black)	<input type="radio"/> 3000K (Default/Blank)
	20 (2W)	2 (25°)	<input type="checkbox"/> BR (Brass)	<input type="radio"/> 2700K
		4 (40°)	<input type="checkbox"/> SS (Stainless Steel)	<input type="radio"/> 5000K
		6 (60°)	<input type="checkbox"/> WHT (White)	<input type="radio"/> AMB (Amber)
				<input type="radio"/> BLU (Blue)
				<input type="radio"/> RBL (Royal Blue)
				<input type="radio"/> GRN (Green)
				<input type="radio"/> RED (Red)
				<input type="radio"/> FSA (Fuchsia)
				<input type="radio"/> LVR (Lavender)

OPTIONAL ACCESSORIES

Accessory images & dimensions can be found on page 3

SHROUD	Mounting
S1 SLOT SHROUD BLACK (S1 Saturn Shroud Black)	SURFACE MOUNT
S1 SLOT WHITE (S1 Saturn Shroud White)	UM SWIVEL BLK (Mini LED Light Mounting Swivel Black)
	UM SWIVEL WHT (Mini LED Light Mounting Swivel White)

TRANSFORMERS

BUILD THE SKU LEFT → RIGHT

Pattern: [WATTAGE (VA)]-[MODEL]-[CONNECTION TYPE]

Items tagged "(Default/Blank)" are not included in the SKU.

EXAMPLE: 602-WLED SS-DW

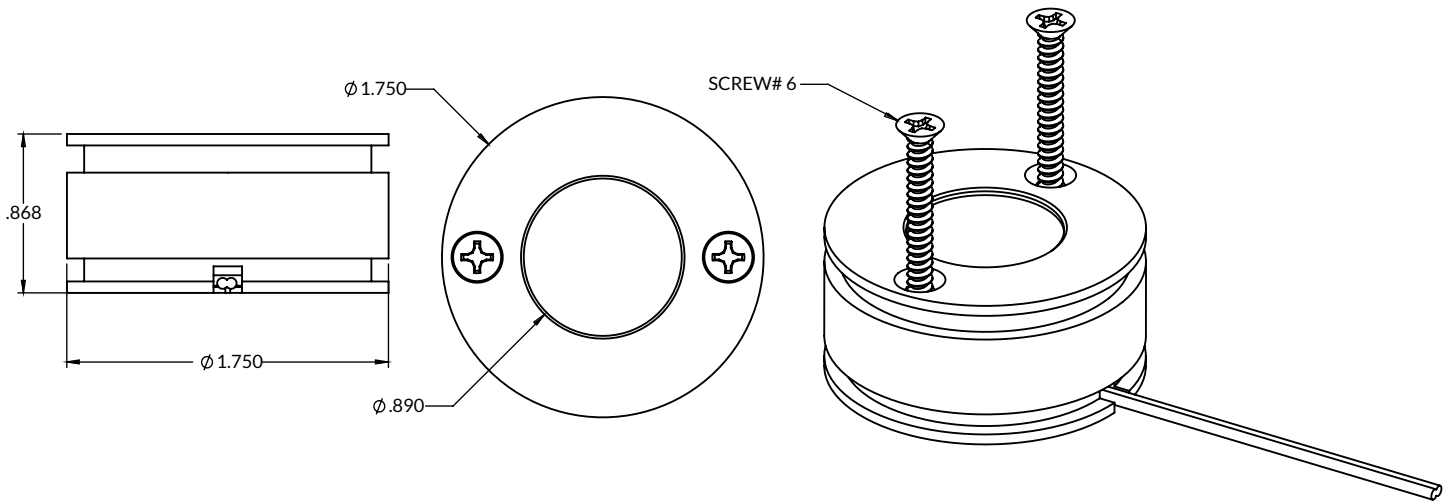
WATTAGE (VA)	MODEL	CONNECTION TYPE
62 102 152 302 602 902 1202	WLED SS (Low Voltage Magnetic Transformer 15V Tap W/ LED & Surge Protection)	Pluggable 120VAC Plug-In (Default/Blank)
60WNL	INLINE (60W No-Load Inline Electronic Transformer 120VAC Input, 12VAC Output)	DW (Direct Wire 120VAC)
60	MD (Mammoth Dynamics phase-dimmable constant current driver (DC))	Direct Wire 120VAC (Default/Blank)
		Direct Wire 120VAC (Default/Blank)



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FIXTURE DRAWINGS



OPTIONS & ACCESSORIES

Shroud
Options:



[S1 SLOT SHROUD
BLACK](#)



[S1 SHROUD
WHITE](#)

MOUNTING OPTIONS

Surface
Mount:



[UM SWIVEL BLK](#)



[UM SWIVEL WHT](#)



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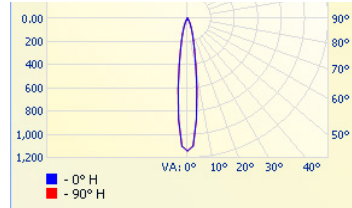
SPECIALTY | SATURN

PHOTOMETRICS

S1H 12°

Input Power	2 W
Color Temperature (CCT)	3000 K
Color Rendering Index (CRI)	80+
Beam Spread	12°
Max Candela Power	1123cd
Delivered Lumens	161
Efficacy	63 lm/W

Polar Graph - Intensity



Cone of Light - Illuminance

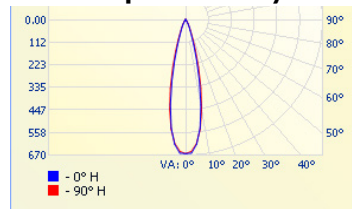
	Center Beam fc	Beam Width	
8.3R	16.6 fc	2.3 ft	2.3 ft
16.7R	4.1 fc	4.7 ft	4.7 ft
25.0R	1.83 fc	7.0 ft	7.1 ft
33.3R	1.03 fc	9.3 ft	9.4 ft
41.7R	0.66 fc	11.6 ft	11.8 ft
50.0R	0.46 fc	14.0 ft	14.2 ft

■ Vert. Spread: 15.9°
■ Horiz. Spread: 16.1°

S1H 25°

Input Power	2 W
Color Temperature (CCT)	3000 K
Color Rendering Index (CRI)	80+
Beam Spread	25°
Max Candela Power	661cd
Delivered Lumens	153
Efficacy	60 lm/W

Polar Graph - Intensity



Cone of Light - Illuminance

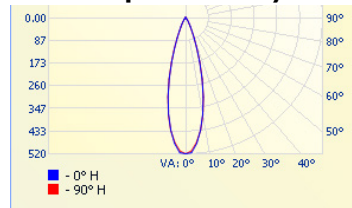
	Center Beam fc	Beam Width	
8.3R	9.61 fc	3.5 ft	3.8 ft
16.7R	2.37 fc	7.1 ft	7.6 ft
25.0R	1.06 fc	10.7 ft	11.4 ft
33.3R	0.6 fc	14.2 ft	15.2 ft
41.7R	0.38 fc	17.8 ft	19.0 ft
50.0R	0.26 fc	21.4 ft	22.8 ft

■ Vert. Spread: 24.1°
■ Horiz. Spread: 25.7°

S1H 40°

Input Power	2 W
Color Temperature (CCT)	3000 K
Color Rendering Index (CRI)	80+
Beam Spread	40°
Max Candela Power	518cd
Delivered Lumens	144
Efficacy	56 lm/W

Polar Graph - Intensity



Cone of Light - Illuminance

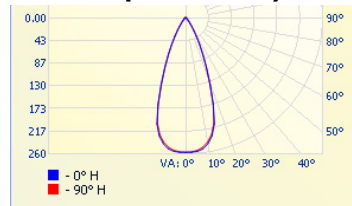
	Center Beam fc	Beam Width	
8.3R	7.54 fc	4.2 ft	4.3 ft
16.7R	1.86 fc	8.5 ft	8.6 ft
25.0R	0.83 fc	12.8 ft	12.9 ft
33.3R	0.47 fc	17.0 ft	17.1 ft
41.7R	0.3 fc	21.3 ft	21.4 ft
50.0R	0.21 fc	25.5 ft	25.7 ft

■ Vert. Spread: 28.6°
■ Horiz. Spread: 28.8°

S1H 60°

Input Power	2 W
Color Temperature (CCT)	3000 K
Color Rendering Index (CRI)	80+
Beam Spread	60°
Max Candela Power	257cd
Delivered Lumens	141
Efficacy	55 lm/W

Polar Graph - Intensity



Cone of Light - Illuminance

	Center Beam fc	Beam Width	
8.3R	3.73 fc	6.2 ft	6.2 ft
16.7R	0.92 fc	12.6 ft	12.5 ft
25.0R	0.41 fc	18.8 ft	18.7 ft
33.3R	0.23 fc	25.0 ft	24.9 ft
41.7R	0.15 fc	31.4 ft	31.1 ft
50.0R	0.1 fc	37.6 ft	37.3 ft

■ Vert. Spread: 41.2°
■ Horiz. Spread: 40.9°

CCT Multiplier

Color Temperature	Multiplier
2700 K	.97
3000 K	1.00
4000 K	1.05

Resources

[S1H Saturn Series Specialty Light – IES Version \(ZIP\)](#)

[S1H Saturn Series Specialty Light – PDF Version \(ZIP\)](#)

[Submit IES File Request](#)

Standard IES files typically represent the highest wattage, 3000K CCT, and available optics. For other configurations, submit one fixture variation per request.

[S1H Saturn Series Specialty Light – Install Guide](#)

Product Page / IES Files / Online Ordering:

gardenlightled.com/product/s1h-saturn-halo-series/

Warranty Information:

gardenlightled.com/warranty/