

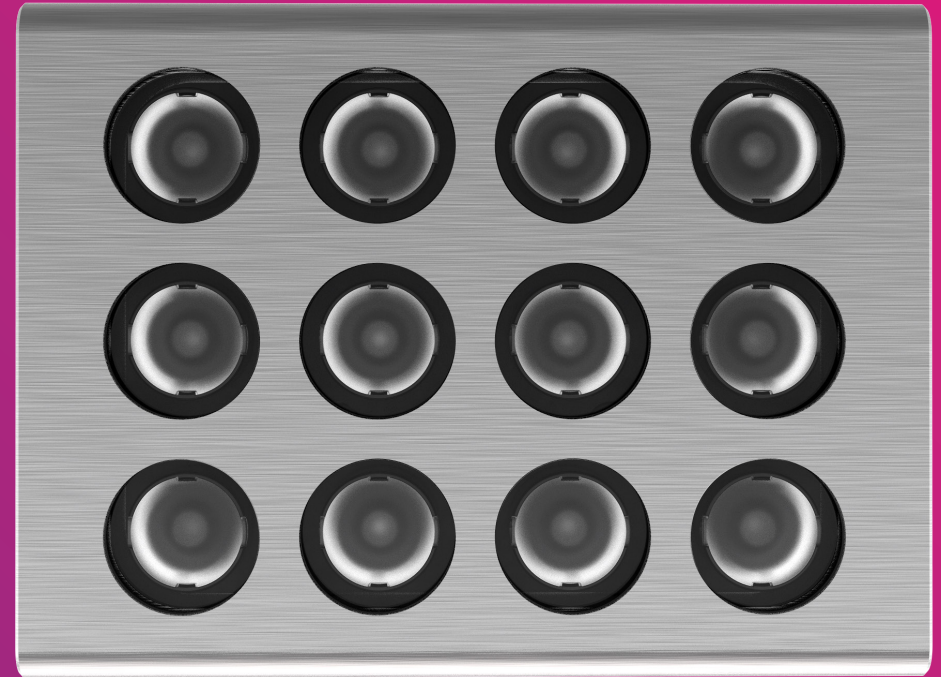
**S ALFA**

**SHOCKWAVE ALFA | COLOR SERIES**

The SACO Shockwave ALFA is a stylish, compact, wall-grazing or wall-washing fixture using high-performance LEDs to deliver intense and precise lighting in virtually any color. The ALFA is highly adjustable and is great end-to-end, stacked, or positioned around complex structures.

ALFA comes in narrow, medium, wide, and a variety of oval optic options making this a versatile lighting solution for most projects.

- HIGH RESOLUTION** SACO's proprietary V-STREAM high-speed, high-resolution video pixel control. DMX compatible.
- BRIGHT FIXTURE** SACO's intelligent control maximizes output for the brightest colors across the spectrum.
- COMPACT SIZE** Ultra-compact design and remote V-BRAIN power allows for low-profile installation and discreet integration.
- MODULAR** Build the perfect performer by combining and stacking fixtures to suit.
- HEAT MANAGEMENT** Efficient heat dissipation. No dirt traps.



ACTUAL SIZE



## FEATURES GUIDE



### PHYSICAL

CONSTRUCTION	Machined high grade 6061-T6 aluminum Machined scratch resistant clear polycarbonate face (0.2", 4.5mm thickness) Sturdy stainless steel hardware
MOUNTING	High-pressure silicone rubber seal (temp range -60°F to 400°F, -50°C to 200°C) Standard 304 stainless steel aimable mounting bracket (0.1", 2.6mm thickness) 180° tilt, 90° pan around central pivot Micro-adjustable for perfect aiming Locking bracket accommodates 1/4" (6mm) mechanical screws
SURFACE FINISH	Standard brushed anodized finish Custom painted colors also available
WEIGHT	1.2lb (0.6kg), with standard cable + mounting bracket

### THERMAL

HEAT CONTROL	Use of entire fixture's surface area for ideal heat dissipation No fins, no dirt buildup
SURFACE FINISH	Anodized for better emissivity
OPERATING TEMP	-40°F to 185°F (-40°C to 85°C)

### ELECTRICAL

INPUT VOLTAGE	24VDC (CLASS 2)
POWER	16W Maximum
V-BRAIN LIMIT	Connect maximum 4 per V-BRAIN 100. Please refer to specification guide.
CABLE	Standard 4' (1.2m) cable with quick connector (Q804), or optional 10' (3m) pigtail cable for fixed color applications (P210)
CONTROL INPUT	SACO Video (Up to 16 bit resolution) DMX512 (8 bit resolution) DMX512 with RDM (Remote Device Management) (8 bit) On/Off without control signal for fixed colors

### OPTICAL

COLOR SERIES	ABC: patented Adaptive Brightness Control, for more vivid single colors Red, blue, green discrete LEDs for individual color control Custom colors available
LUMEN OUTPUT	From 520 to over 600lm (RGB full-on), depending on optics
PERFORMANCE	From 30 to 40lm/W (RGB full-on), depending on optics
REFRACTORS	Injection molded PMMA total internal reflection collimators (TIR) Variety of axial and transverse beam angles, from circular to oval light spreads Factory installed for enhanced optical precision

### SHOCKWAVE ACCESSORIES

EXTENSION CABLES	10' (3m) EXT10 and 20' (6m) EXT20 fixture extension cables may be used to lengthen standard cable to a maximum of 60' (18m) IP67 quick connectors for easy connections to V-BRAIN
MOUNTING	Multiple mounting and joining bracket options available See accessories guide for options
OPTICAL ACCESSORIES	Multiple optical accessories are available See accessories guide for options
CONTROLLERS	Multiple Shockwave video and DMX512 control options are available See accessories guide for options
MORE	Please refer to accessories guide for more information

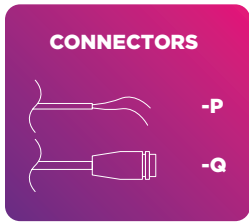
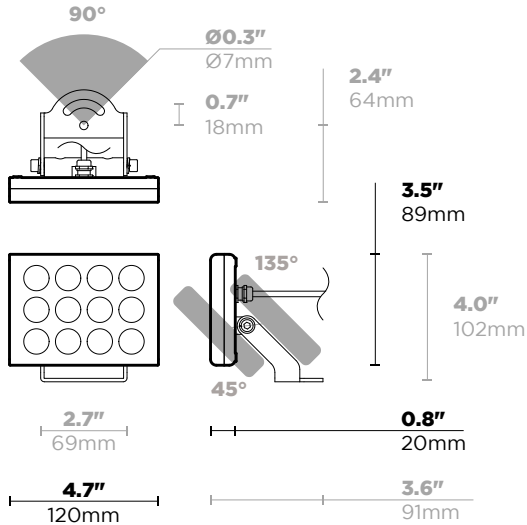
### ADDITIONAL INFORMATION

CERTIFICATION	ETL listed as per UL 2108, CSA C22.2 N° 250.0 CE IP 66, suitable for wet locations Roadway and Area Lighting Equipment Luminaire Vibration as per ANSI C136.31
WARRANTY	5 years
ORIGIN	Designed and made in North America





# SPECIFICATIONS GUIDE



-TP MOUNTING HARDWARE VERSION, SEE ACCESSORIES GUIDE FOR MORE.  
**(ADJUSTABILITY AND MOUNTING DIMENSIONS IN GREY)**

## PRODUCT ORDERING CODE

<input type="checkbox"/>	<b>MODEL #</b>	
<input type="checkbox"/>	<b>COLOR LIGHT SOURCE</b>	
	<b>RGB</b>	RGB, ABC-enabled (Max 16W, 600lm approx. RGB, color changing)
	<b>---</b>	Custom, please specify (Max 16W, fixed color recipe)
<input type="checkbox"/>	<b>LIGHT SPREAD (AXIAL + TRANSVERSE) <sup>1,2</sup></b>	
	<b>N+N</b>	Narrow (Circular beam, nominal 10° TIR lens)
	<b>M+M</b>	Medium (Circular beam, nominal 30° TIR lens)
	<b>W+W</b>	Wide (Circular beam, nominal 50° TIR lens)
	<b>M+N</b>	Medium + Narrow (Oval beam, nominal 40°x15° TIR lens)
	<b>W+M</b>	Medium + Wide (Oval beam, nominal 55°x35° TIR lens)
		<sup>1</sup> All beam angle values (FWHM) may vary depending on specified light color. Please refer to photometric guide for corresponding beam angles.
		<sup>2</sup> Factory installed. Please refer to accessories guide for field-adjustable optical accessories.
<input type="checkbox"/>	<b>CONTROL SPECIFICATION <sup>3</sup></b>	
	<b>SVD</b>	SACO Video (Up to 65,536 shades per color, dimming down to 0%)
	<b>DMX</b>	DMX512 <sup>4</sup> (Up to 256 shades per color, dimming down to 0%)
	<b>RDM</b>	DMX512 <sup>4</sup> + RDM (Up to 256 shades per color, dimming down to 0%)
	<b>OFF</b>	On/Off (No dimming)
		<sup>3</sup> Remote power supply and control gear to be ordered separately. Please refer to specification guide.
		<sup>4</sup> DMX addresses must be identified on order.
<input type="checkbox"/>	<b>CABLE HARNESS CONNECTOR</b>	
	<b>Q</b>	Quick connector <sup>5</sup> (8-pin, overmolded IP67)
	<b>P</b>	None, pigtail <sup>6</sup> (2 conductors, stripped wire ends, no connector)
		<sup>5</sup> Default option, 8-conductor maximum cable length is 4' (1.2m), see below. Make sure connector choice corresponds with that of remote power supply.
		<sup>6</sup> 2-conductor cable compatible only, see below.
<input type="checkbox"/>	<b>CABLE HARNESS LENGTH</b>	
	<b>801.2</b>	8-conductor, 4' (1.2m) <sup>7</sup>
	<b>8_ _ _</b>	8-conductor, custom length (please specify, in meters) <sup>8</sup>
	<b>203.0</b>	2-conductor, 10' (3m) <sup>9</sup>
	<b>2_ _ _</b>	2-conductor, custom length (please specify, in meters) <sup>10</sup>
		<sup>7</sup> Default length option, comes fitted with 8-pin quick connector only (-Q, see above).
		<sup>8</sup> Minimum 8-conductor cable length is 6" (0.15m) and maximum 10' (3m). Longer runs can be achieved using extensions. Refer to V-Brain wiring guide for details.
		<sup>9</sup> 2-conductor cables have pigtailed ends as standard (-P only, see above).
		<sup>10</sup> Maximum 2-conductor cable length option is 80' (24m) length.
<input type="checkbox"/>	<b>SURFACE FINISH</b>	
	<b>CLA</b>	Clear Anodized
	<b>BKA</b>	Black Anodized
	<b>---</b>	Custom, please specify
<input type="checkbox"/>	<b>MOUNTING HARDWARE <sup>11</sup></b>	
	<b>TP</b>	Tilt + Pan mounting bracket (Tilt 180°, Pan 90°)
	<b>NO</b>	None
	<b>--</b>	Custom, please specify
		<sup>11</sup> Tilt and pan aimable mounting bracket factory installed as standard. Please refer to accessories guide for further mounting options.
<input type="checkbox"/>	<b>MOUNTING FINISH <sup>12</sup></b>	
	<b>SS</b>	Stainless Steel
	<b>--</b>	Custom, please specify
		<sup>12</sup> Bracket finish is exposed stainless steel, Custom finish to be applied to stainless steel. Consult your sales agent for compatible finishes, price and availability.



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# PHOTOMETRICS GUIDE

## A NOTE ON PERFORMANCE

**MASTER THE ABC** Tuning a regular 3-channel RGB fixture from full-on to just displaying one or two channels basically means cutting off power to the unwanted channels. Then came Adaptive Brightness Control (ABC), SACO's patented protocol for driving LEDs.

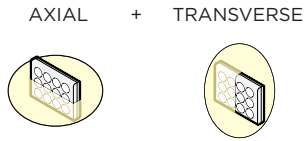
An ABC-enabled RGB fixture makes sure each channel is getting as much light out as it can at all times, reallocating the power from unused channels to the required ones. In other words, Adaptive Brightness Control is continuously monitoring the fixture's power so that it gets the most brightness out of it, in any shade of color.

**COLORED LIGHT** All of the photometrics below are based on an ABC-enhanced full-on RGB light source (-RGB). Beam angle (FWHM) may vary depending on specified light color, as well as on fixture finish.

Photometric performance is measured in compliance with IESNA LM-79-08. Consult SACO website for the latest IES files.

**LIGHT SPREAD** Optics code sequence describe the type of light spread achieved both axially and transverse, in that order.

Oval optics may be installed axially or transverse (except -XN), depending on order code sequence. M+W = MEDIUM (axial) + WIDE (transverse) vs W+M = WIDE (axial) + MEDIUM (transverse).



## THE ABCS OF ADAPTIVE BRIGHTNESS CONTROL

Note that while different color LEDs have different efficiencies due to fundamental chemical differences, all will be enhanced by ABC to notable effect.

For instance, an RGB ABC fixture set to Red only (Rxx) will get over 120% more lumens out than a regular RGB set to Red only; xGx gets over 65% more, and xxB is 80% more intense. Similarly, setting it to purple using only Red and Blue (RxB), will get 60% more lumens out from an ABC luminaire than from a regular RGB one. Finally, the ABC effect can even be noticed when driving all three channels full on: a 5% increase has been measured at SACO in-house light lab.



### Reach Comparison Diagram <sup>1</sup>

