

Project 21-12877-3 Date 6/25/2021 RGB/W | Saturated Color

Submitted By 16500, INC Catalog Number TB3 P1FJ 96 MW WTP RGBW WF LED1 27K UNV 144 DMX

Notes





SALFA

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

istallation 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

Туре





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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

High-pressure silicone rubber seal (temp range -60°F to 400°F, -50°C to 200°C)

MOUNTING 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

Connect maximum 4 per V-BRAIN 100. Please refer to specification guide. V-BRAIN LIMIT

Standard 4' (1.2m) cable with quick connector (Q804), or optional 10' (3m) pigtail CABLE

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 Injection molded PMMA total internal reflection collimators (TIR) **REFRACTORS**

Variety of axial and transverse beam angles, from circular to oval light spreads

Factory installed for enhanced optical precision

SHOCKWAVE ACCESSORIES

EXTENSION 10' (3m) EXT10 and 20' (6m) EXT20 fixture extension cables may be used to

CABLES 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 Multiple optical accessories are available **ACCESSORIES** 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

ADDITIONNAL INFORMATION

CERTIFICATION ETL listed as per UL 2108, CSA C22.2 Nº 250.0

CE

IP 66, suitable for wet locations

Roadway and Area Lighting Equipment Luminaire Vibration as per ANSI C136.31

WARRANTY

ORIGIN Designed and made in North America



















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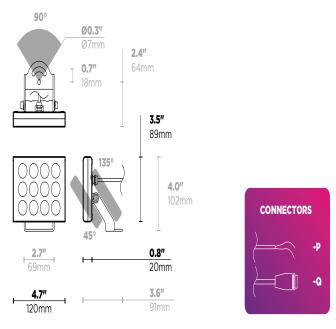
Notes





SPECIFICATIONS GUIDE





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



SA **MODEL# COLOR LIGHT SOURCE** RGB, ABC-enabled (Max 16W, 600lm approx. RGB, color changing) Custom, please specify (Max 16W, fixed color recipe) LIGHT SPREAD (AXIAL + TRANSVERSE) 1,2 N+N Narrow (Circular beam, nominal 10° TIR lens) M+M Medium (Circular beam, nominal 30° TIR lens) W+W Wide (Circular beam, nominal 50° TIR lens) Medium + Narrow (Oval beam, nominal 40°x15° TIR lens) W+M Medium + Wide (Oval beam, nominal 55°x35° TIR lens) ¹All beam angle values (FWHM) may vary depending on specified light color. Please refer to photometric guide for corresponding beam angles. ${\bf ^2}$ Factory installed. Please refer to accessories guide for field-adjustable optical accessories. **CONTROL SPECIFICATION 3** SVD SACO Video (Up to 65,536 shades per color, dimming down to 0%) DMX512 4 (Up to 256 shades per color, dimming down to 0%) DMX RDM DMX512 4+ RDM (Up to 256 shades per color, dimming down to 0%) On/Off (No dimming) ³ Remote power supply and control gear to be ordered separately. Please refer to specification guide. ⁴ DMX addresses must be identified on order. **CABLE HARNESS CONNECTOR** Quick connector 5 (8-pin, overmolded IP67) Q None, pigtail ⁶ (2 conductors, stripped wire ends, no connector) choice corresponds with that of remote power supply. 62-conductor cable compatible only, see below. **CABLE HARNESS LENGTH** 801.2 8-conductor, 4' (1.2m) 7 8-conductor, custom length (please specify, in meters) 8 203.0 2-conductor, 10' (3m) 9 2-conductor, custom length (please specify, in meters) 10 ⁷ Default length option, comes fitted with 8-pin quick connector only (-Q, see above). ⁸ 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. ⁹ 2-conductor cables have pigtailed ends as standard (-P only, see above). 10 Maximum 2-conductor cable length option is 80' (24m) length. **SURFACE FINISH** CLA Clear Anodized Black Anodized Custom, please specify **MOUNTING HARDWARE** ¹¹ TP Tilt + Pan mounting bracket (Tilt 180°, Pan 90°) NO None Custom, please specify ¹¹ Tilt and pan aimable mounting bracket factory installed as standard. Please refer to accessories guide for further mounting options. MOUNTING FINISH 12



⁵ Default option, 8-conductor maximum cable length is 4' (1.2m), see below. Make sure connector

SS Stainless Steel

Custom, please specify

¹²Bracket 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).











Note that while different color

LEDs have different efficencies

due to fundamental chemical

by ABC to notable effect.







THE ABCS OF ADAPTIVE BRIGHTNESS CONTROL

Reach Comparison Diagram 1

Туре

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.

