HYDREL®

SAF7F RGBW SPECIALTY ARCHITECTURAL FLOOD FLAME

MVOLT LED

HIGHLIGHTS

- Lighting effects using two beams
- Available Flame distributions: Narrow (30DEG with 10DEG), Wide (70DEG with 30DEG), Lotus (70DEG with 10DEG)
- Suitable for a variety of mounting applications including ground, wall, pole, stanchion
- Performance color mixing utilizing high output quad LED
- 3G vibration rating per ANSI C136.31
- DMX/RDM
- Taper-Lock technology provides full aiming integrity utilizing both a rugged knuckle and yoke design
- IK10 option available
- Minimalist design that provides clean and intentional lines and transitions
- Slightly convex watershed lens that evades water build up and staining
- Industry leading flow through design achieve with separately sealed optical chamber and driver
- Quad chip technology, enabling optimal color mixing under each individual optic. Avoid striations and color separation when wall grazing/washing
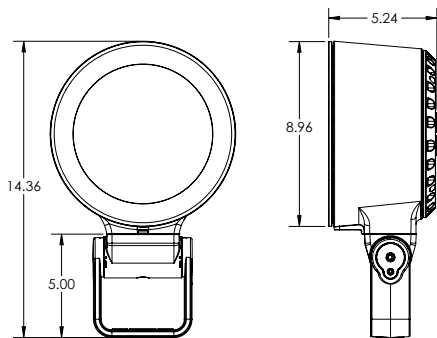
LED
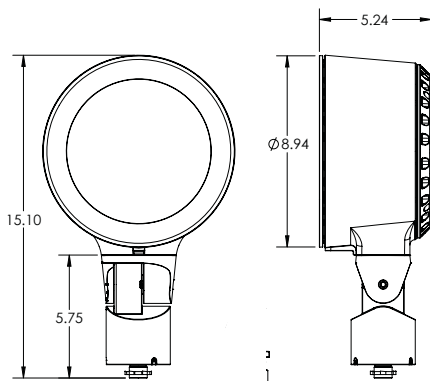
5 YEAR warranty

IP68

BAA

Specifications

Weight:	15lbs

EPA:	KM: .73
	YM: .71

LUMEN PACKAGES

	N30DEG		W70DEG		L70DEG	
	Outer	Center	Outer	Center	Outer	Center
Delivered Lumens	823	730	705	710	705	730
Total Watts (all on)	46		46		46	
Max Candela	2077	18,394	481	1791	481	18,394

DIMENSIONS

5.24

8.96

14.36

5.00

YOKE

5.24

Ø8.94

15.10

5.75

KNUCKLE

STANDARD DISTRIBUTION

30°

10°
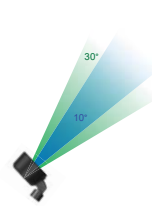
"NARROW"
N30DEG 30° Outer Beam
& 10° Central Beam

70°

30°
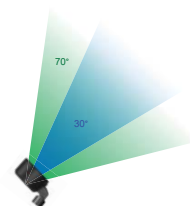
"WIDE"
W70DEG 70° Outer Beam
& 30° Central Beam

70°

10°
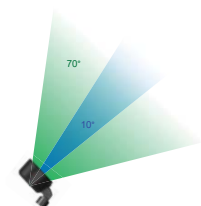
"LOTUS"
L70DEG 70°Outer Beam
& 10° Central Beam

AIMING DETAIL

SAF 7 KNUCKLE

180°

SAF 7 YOKE

180°

ORDERING INFORMATION

SAF7F

Series*		Source*	Performance Packages*	LED Dynamic Range*		Voltage*	Distribution*		Lens*		Mounting*	
SAF7F	Specialty Architectural Flood Flame	LED	P1	RGBW4	40K white (80CRI)	MVOLT	N30DEG	Narrow Flame 30° Outer Beam & 10° Central Beam	CWL	Clear Watershed Lens	KM	Knuckle
							W70DEG	Wide Flame 70° Outer Beam & 30° Central Beam		*Note: CWL lens IK07. For IK10 use external WRG option*	YM	Yoke
							L70DEG	Lotus Flame 70° Outer Beam & 10° Central Beam				

Mounting Accessories		Options Accessory		Options		Control Input*	External		Finish*		
ADPMR	Architectural Decorative Pole Mount Round	**Hardware**		CSL_	10' – 50' of cord available in 5' increments	DMX	GS	Glare shield	BL	Black Textured	
ADPMS	Architectural Decorative Pole Mount Square	TPH	Tamper proof hardware				FGS	Full Glare Shield	BRS	Bronze Smooth	
AMPC_/_	Architectural Mid Pole Clamp available to fit on a 4" or 6" pole with 1 or 2 fixtures	LASC	Safety Cable		*Note: Cord length required for Yoke Mounting only*		WRG	Wire Rock Guard	BRT	Bronze Textured	
APAR	Round 18" Pole Mount								CF	Custom Finish	
APAS	Square 18" Pole Mount								DBL	Black Smooth	
AWSC	Architectutal Wall Splice Cover								DDB	Designer Bronze	
CAJB	Cylindrical Architectural Junction box								DNA	Natural Aluminum	
CJB	Cylindrical Junction Box								NBS	Natural Bronze Smooth	
CPM	Cylindrical Pedestal Mount								VET	Verde Textured	
CPMSA	Cylindrical Pole Mount Splice Access								WH	White Textured	
CSM_	Cylindrical Stancion Mount 12"-48" available in 6" increments								WHS	White Smooth	
CWMA_E	Cylindrical Wall Mount Arm. End 12"-48" (available in 6" increments)								__Z	Zinc Undercoat (i.e.BLZ) Note: Zinc Undercoat provides corrosion protection for Marine Environment and Natatorium Construction	
CWMA_T	Cylindrical Wall Mount Arm Top 12"-48" (available in 6" increments)								CF	Custom Finish	
									RALTBD	RAL Paint Finishes	

Note: RALTBD for pricing only, replace with applicable RAL call out when ready to order. See the RALBROCHURE for available options. It is recommended that Hydrel products only use textured paint.

*Required Fields

PERFORMANCE DATA

LUMEN OUTPUT — SAF7F_RGBW

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Distribution Type		Field Angle		Beam Angle		RGBW4	
				H	V	H	V	Max CD	Lumens
P1	46	N30DEG	Outer	61	61	33	33	2077	823
			Center	18	18	9	9	18,394	730
		W70DEG	Outer	111	111	77	77	481	705
			Center	61	61	33	33	1791	710
		L70DEG	Outer	111	111	77	77	481	705
			Center	18	18	9	9	18,394	730

CSA LISTING TEMPERATURE: -20°C though 40°C

ELECTRICAL LOAD

Light Engines	System Watts	Current (A)			
		120	208	240	277
RGBW P1	46	0.39	0.23	0.20	0.17

LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

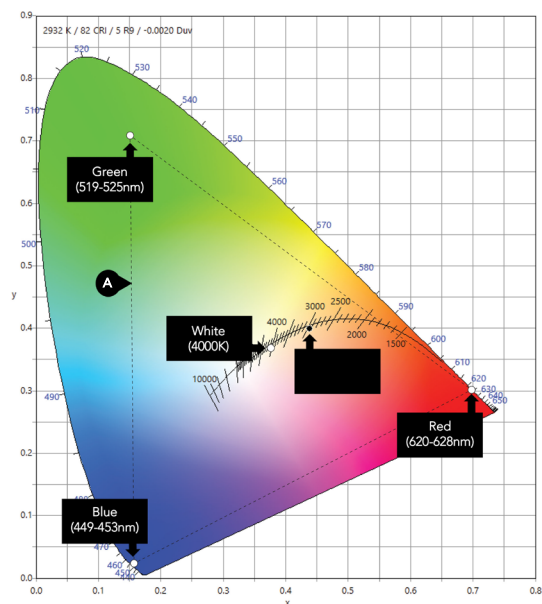Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F)

Ambient		RGBW Lumen Multiplier
0°C	32°F	1.27
10°C	50°F	1.16
20°C	68°F	1.05
25°C	77°F	1.00
30°C	86°F	0.94
40°C	104°F	0.83

Optical Scaling Charts*	
GS	0.96
FGS	0.95

Note: This table can be used to approximate the lumen values with different accessories. Please see IES files for exact lumen outputs.

RGBW GAMUT AND RANGE

- The Gamut of a luminaire determines the potential color range, specifically the dominant wavelength of each primary color.
- The Path determines the range of colors the user can select for the luminaire.

ARCHITAINMENT COLOR GPHD
- **Gamut** Triangular
- **Path** Full RGB gamut
- **Handle** Four Handles: Red, Green, Blue, White
- **Data** DMX512/RDM

The RGBW Range reaches the full range of saturated colors and subtle pastels to create bold transformational effects.

Ⓐ RGBW Range within triangle formed by RGB

SAF MOUNTING ACCESSORIES

		Part #
	ADPMR/ADPMS Architectural Decorative Pole Mount Round or Square • Architectural opulent design for seamless pole integration and fixture aiming • Intended for 4" round and tapered poles or minimum 4" square poles • Mounting location on the top of each arm accepts one lighting fixture • Designed for SAF7 & SAF14 fixtures	Examples: ADPMR 78C BL See spec sheet for more options
	• **AMPC Architectural Mid Pole Clamp** • Clamp pole mount design for quick install and fixture aiming • Intended for 4" or 6" round straight pole • Mount one or two fixtures • Mounting location mid pole • Designed for SAF7 and SAF14 series with safety cable option	Example: AMPC4/1 78C BL See spec sheet for more options
	APAR/APAS Architectural Pole Arm Round or Square • Intended for 4" round and tapered poles or minimum 4" square poles • Mounting location on the top of each arm accepts one lighting fixture • Designed for SAF7 & SAF14 fixtures	Example: APAS XLSC BRS See spec sheet for more options
	AWSC Architectural Wall Splice Cover • Designed to be mounted over a recessed wall box or can be surface mounted for direct conduit entrance • Supplied with an integral splice access compartment for easy fixture connections • Designed for SAF7 & SAF14 fixtures	Example: AWSC 78C DNA See spec sheet for more options
	CAJB Cylindrical Architectural Junction Box • Designed for architectural and landscape applications • Recommended for mounting on a rigid metallic conduit • For direct mounting of the SAF7 & SAF14 series light fixtures	Example: CAJB 34B XLSC DBL See spec sheet for more options
	CJB Cylindrical Junction Box • Drilled and tapped to ¾" NPT specifications • For larger hole sizes , consult factory • Recommended to seal conduit to maintain dry components • Compatible with SAF7 & SAF14 Flood luminaries	Example: CJB 34S XLSC VET See spec sheet for more options

SAF MOUNTING ACCESSORIES

		Part #
	CPM Cylindrical Pedestal Mount • Suitable for architectural and landscape applications • Provided with front access cover for easy wiring and installation. • Compatible with SAF7 & SAF14 Flood luminaries	Example: CPM 78C BL See spec sheet for more options
	CPMSA Cylindrical Pole Mount Splice Access • Designed to mount atop of 4" round poles • Provided with splice compartment • Compatible with SAF7 & SAF14 Flood luminaries	Example: CPMSA 78C DBL See spec sheet for more options
	CSM Cylindrical Stanchion Mount • Available in heights from 12" to 48" in 6" increments • Provided with front access cover for easy wiring and installation. • Compatible with SAF7 & SAF14 Flood luminaries	Example: CSM12 XLSC BRT See spec sheet for more options
	CWMA E/CWMA T Cylindrical Wall Mount Arm End or Top • Available in lengths from 12" to 48" in 6" increments • Supplied with splice cover for easy wiring and installation • End mounting only available with SAF7 • Compatible with SAF7 & SAF14 Flood luminaries	Example: CWMA30E 78C BL CWMA12T XLSC BRS See spec sheet for more options

EXTERNAL ACCESSORIES

	Part #
• WRG- Wire Rock Guard	Example: WRGSAF7 BL
• FGS- Full Glare Shield	Example: FGSSAF7 DDB
• GS- Glare Shield	Example: GSSAF7 BL

ACCESSORY OPTIONS

TAKE CONTROL

Hydrel lighting solutions bring ease of use, innovation, and next-generation control features to commercial, underwater, and architectural outdoor applications. We offer a dedicated team of specification engineers to take you through lighting design, the specification process, to the installation of our fixtures. We simplify the complex and help you create the right layer of light for any outdoor lighting environment. Find the right architectural outdoor fixture, controls, and network connectivity with Hydrel Lighting Solutions.

FRESCO CONTROL SYSTEM

Series		Model		Options		Finish	
FCS	Fresco Control System	7TSN	7" touchscreen with nLight port	X	DMX/RMD control	DBL	Black
						DWH	White
						DNA	Natural Aluminum

Refer to FRESCO spec sheet for additional details and options.

EASYL - LED SHOW CONTROLLER WITH LCD TOUCHSCREEN (INTETRAL POWER SUPPLY)

Series		Voltage		Finish	
EZSOLO	Easyl Solo	MVOLT	120V-277V VAC, 50/60Hz	BK	Black
EZTOUCH	Easyl Touch			Wh	White
EZPRO	Easyl Pro				

Refer to EASYL spec sheet for additional details and options.

PATHWAY Connectivity Solutions- DMX lighting and networking with scalable networks

Refer to PATHWAY spec sheets for additional details and options.

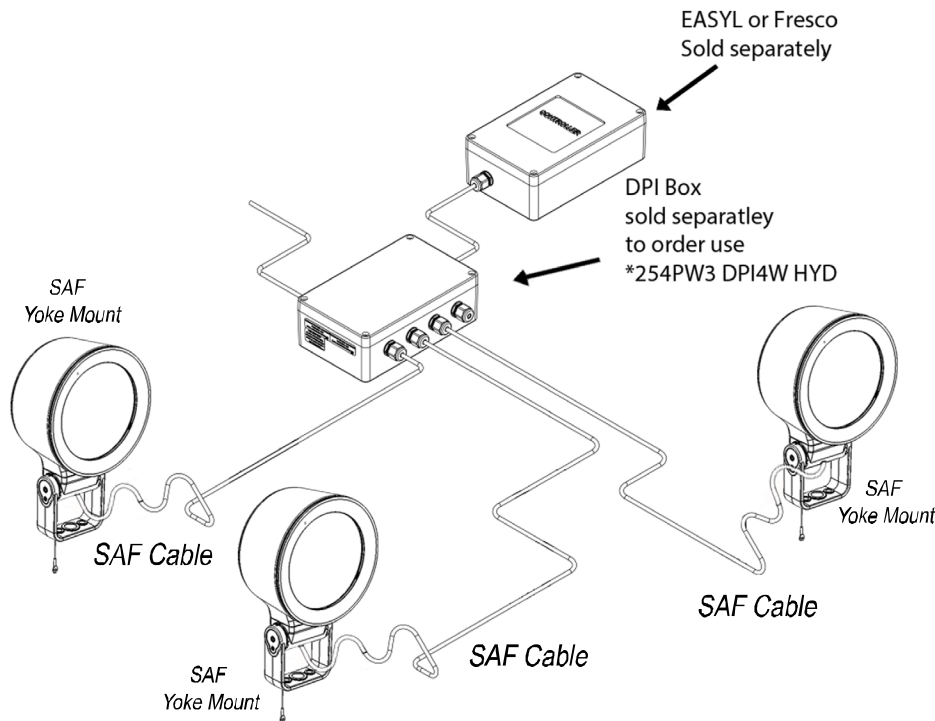### DMX / POWER INTEGRATOR

Model	
DPI4WHYD	DPI4WHYD - DMX/Power Integrator Box

Refer to DPI4W HYD spec sheet for additional details.

WIRING AND LAYOUT DESIGN

Wiring Detail - DMX RGBW Fixture

Black	Line
White	Neutral
Green	Power Ground
Yellow/Gray or **PINK**	DMX Common
Orange/Violet	DMX -
Red	DMX +
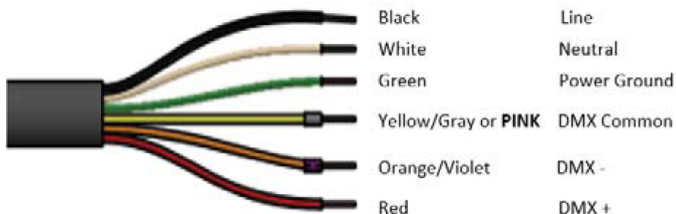
FEATURES & SPECIFICATIONS

MATERIAL: Die cast copper-free aluminum (A360) housing & doors with separate optical and driver compartments to ensure thermal isolation of the electronic drivers and LED's.

VOLTAGE: MVOLT 120V-277V, 50/60Hz.

DISTRIBUTION: Available in N30DEG, W70DEG and L70DEG.

LENS: Molded from heat strengthened borosilicate glass for superior clarity and strength.

MOUNTING: Adjustable knuckle is 1/2" NPT. Yoke mount is a 7/8" thru hole center and (2) 7/16" thru holes 2.2" on center. Aluminum knuckle, yoke, & stainless steel locking hardware with infinite aiming adjustment capabilities and a wide array of mounting accessories. The SAF series can withstand up to a 3G vibration load rating per ANSI/IEEE C136.31. Yoke mount luminaires are provided with 10'-50' at 5ft increments of 18 gauge/6 conductor ST cord for power supply and control. Knuckle mount luminaires are provided with 18" leads (18 gauge for power supply and 22 gauge for control).

GLARE CONTROL: External glare control options include full glare shields and half glare shields.

FINISH: Exterior parts are protected by a zinc-infused durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climates without cracking or peeling.

ELECTRICAL: MVOLT (120-277) LED class 2 power supply. 46 watts max, L83 lifetime ≥ 100,000 hours at 25°C. Power factor > 90%, THD < 20%. 6KV surge protection meets a minimum Category C low operation per ANSI/IEEE C62.41.2.

FEATURES: Taper lock knuckle and yoke for infinite aiming and an unparalleled locking ability.

EXTERNAL ACCESSORY: Impact resistant rock guard.

BUY AMERICAN ACT: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

LISTING: Suitable for outdoor & wet location, IP68 rated.

WARRANTY: 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Consult factory for details

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.