



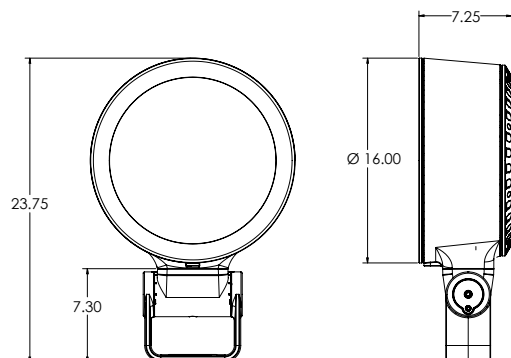
#### Specifications

Weight: 66lbs.

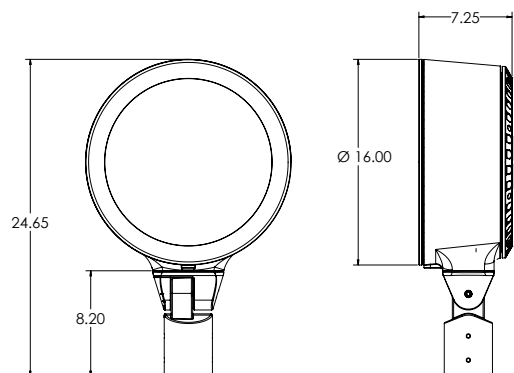
EPA: KTM: 2.00

YM: 2.10

#### DIMENSIONS



YOKE



KNUCKLE

## SAF28 RGBW SPECIALTY ARCHITECTURAL FLOOD MVOLT LED

#### HIGHLIGHTS

- Suitable for a variety of mounting applications including ground, wall, pole, stanchion
- DMX/RDM
- Taper-Lock technology provides full aiming integrity utilizing both a rugged knuckle and yoke design
- White color temperature available in 30K and 40K
- 5000lm
- Minimalist design that provides clean and intentional lines and transitions
- 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
- NOM Listed
- IK10 option available



5  
YEAR  
warranty

IP68



Buy American

#### LUMEN PACKAGES

	10DEG	15DEG	20DEG	30DEG	40DEG	50DEG
Deliverd Lumens	5,830	5,563	5,526	5,452	5,363	5,325
Watts	164	164	164	164	164	164
LPW	36	34	34	33	33	32
Max Candela	146,729	49,514	33,923	13,749	7,991	5,789
	70DEG	15Vx60H	30Vx60H	60Vx15H	60Vx30H	
Deliverd Lumens	5,161	5,688	5,491	5,323	5,246	
Watts	164	164	164	164	164	
LPW	31	35	33	32	32	
Max Candela	3,523	14,233	7,847	14,756	7,463	

Note: Information based on RGBW4 @P1

Individual Channel Lumens	R	G	B	W
Delivered Lumens	2751	3797	926	4233

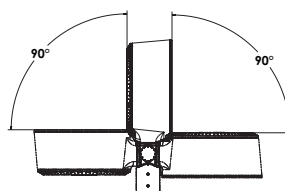
Note: Information based on RGBW4 @ Channel output maximum and 40DEG

#### STANDARD DISTRIBUTION

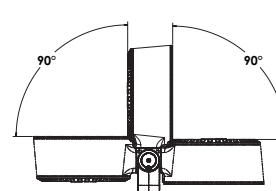


#### AIMING DETAIL

##### SAF28 KNUCKLE



##### SAF28 YOKE



## ORDERING INFORMATION

EXAMPLE: SAF28 LED P1 RGBW3 MVOLT 6DEG FLC KTM CPM L1 DMX BL

SAF28																	
Series*		Source*	Performance Packages*		LED Dynamic Range*		Voltage*		Distribution*		Lens*		Mounting*				
SAF28	Specialty Architectural Flood	LED	P1	RGBW3	30K white (80CRI)	MVOLT	10DEG	10°	FLC	Flat Lens Clear	Note: FLC lens IK08. For IK10 use external WRG option.	KTM	Knuckle Tenon Mount				
							15DEG	15°									
							20DEG	20°									
							30DEG	30°									
							40DEG	40°									
							50DEG	50°									
							70DEG	70°									
							15VX60H	15° x 60°									
							30VX60H	30° x 60°									
							60VX15H	60° x 15°									
							60VX30H	60° x 30°									
Mounting Accessories		Options Internal Accessory		Options		Control Input		External		Finish*							
CPM	Cylindrical Pedestal Mount	L1	Prismatic Lens	CSL	10' - 50' of cord available in 5' increments	DMX	GS	Glare shield	BL	Black Textured							
CPMSA	Cylindrical Pole Mount Splice Access	L2	Linear Spread Lens				FGS	Full Glare Shield	BRS	Bronze Smooth							
CSM_	Cylindrical Stancion Mount 12"-48" available in 6" increments	L3	Softening Lens				WRG	Wire Rock Guard	BRT	Bronze Textured							
CWMA_T	Cylindrical Wall Mount Arm Top 12", 18" and 24"	IHL	Honeycomb Louver						CF	Custom Finish							
PAR_/_	Pole Arm Mounting for Round Poles, available to use with 4", 5", 6" pole and available in lengths of 12", 18", 24"	Note: Only one Internal accessory can be choosen								DBL	Black Smooth						
PAS_/_	Pole Arm Mounting for Square Poles, available to use with 4", 5", 6" pole and available in lengths of 12", 18", 24"	Hardware								DDB	Designer Bronze						
PATR_/_	Pole Arm Twin Mounting for Round Poles, available to use with 4", 5", 6" pole and available in lengths of 12", 18", 24"	TPH	Tamper proof hardware							DNA	Natural Aluminum						
PATS_/_	Pole Arm Twin Mounting for Square Poles, available to use with 4", 5", 6" pole and available in lengths of 12", 18", 24"									NBS	Natural Bronze Smooth						
TNM	Tenon Mount									VET	Verde Textured						
										WH	White Textured						
										WHS	White Smooth						
										_Z	Zinc Undercoat (i.e.BLZ)						
										Note: Zinc Undercoat provides corrosion protection for Marine Environment and Natatorium Construction							
										CF	Custom Finish						
										RALTD	RAL Paint Finishes						
										Note: RALTD 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 – SAF28\_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		RGBW3			RGBW4		
			°H	°V	°H	°V	Max CD	Lumens	LPW	Max CD	Lumens	LPW
P1	164	10DEG	18	18	9	9	142,107	5,646	34	146,729	5,830	36
		15DEG	32	32	16	16	47,954	5,388	33	49,514	5,563	34
		20DEG	39	39	20	20	32,855	5,352	33	33,923	5,526	34
		30DEG	61	61	33	33	13,316	5,280	32	13,749	5,452	33
		40DEG	78	78	47	47	7,739	5,194	32	7,991	5,363	33
		50DEG	90	90	56	56	5,607	5,157	31	5,789	5,325	32
		70DEG	111	111	77	77	3,412	4,999	30	3,523	5,161	31
		15Vx60H	95	34	66	16	13,785	5,509	34	14,233	5,688	35
		30Vx60H	98	61	66	33	7,600	5,318	32	7,847	5,491	33
		60Vx15H	33	93	16	65	14,292	5,156	31	14,756	5,323	32
		60Vx30H	62	100	34	68	7,228	5,081	31	7,463	5,246	32

CSA LISTING TEMPERATURE: -30°C through 25°C

### ELECTRICAL LOAD

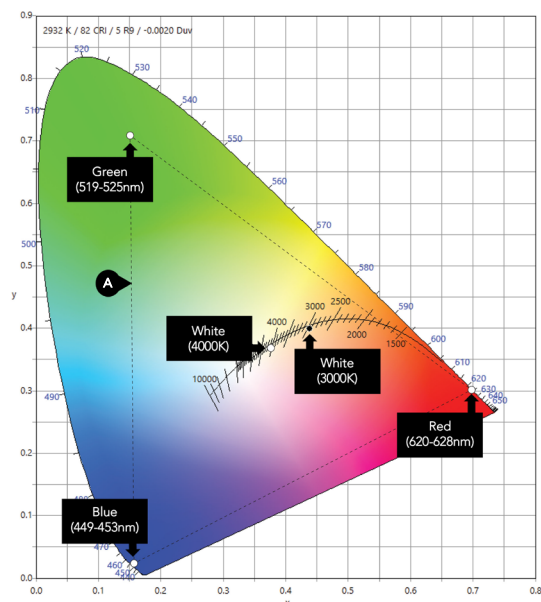
Light Engines	Drive Current (mA)	System Watts	Current (A)			
			120	208	240	277
RGBW P1 10+deg	500	172	1.44	0.85	0.75	0.68

### 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

### RGBW GAMUT AND RANGE



A RGBW Range within triangle formed by RGB

- 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





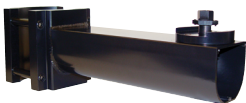
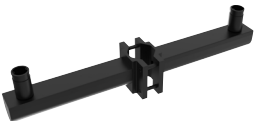
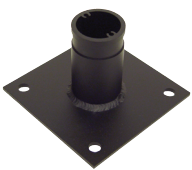
The RGBW Range reaches the full range of saturated colors and subtle pastels to create bold transformational effects.

Optical Scaling Charts*	
Symmetric Distributions (10DEG - 70DEG)	
GS	0.96
FGS	0.95
IHL	0.76
L1	0.95
L2	0.95
L3	0.97
WRG	0.81
*Wider distributions will have a lower scaling factor - see individual IES files for full details	
Asymmetric Distributions (xxVxH)	
GS	0.93*
FGS	0.85*
IHL	0.35
L1	0.88
L2	0.86
L3	0.95
WRG	0.71
*This table can be used to approximate the lumen values with different accessories. Please see IES files for exact lumen outputs.	

## PHOTOMETRIC DIAGRAMS

To see complete photometric reports or download .ies files for this product, visit [www.hydrel.com](http://www.hydrel.com)

## SAF MOUNTING ACCESSORIES

		Part #
	CPM Cylindrical Pedestal Mount <ul style="list-style-type: none"> <li>• Suitable for architectural and landscape applications</li> <li>• Provided with front access cover for easy wiring and installation.</li> </ul>	Example: CPM TC BL See <a href="#">spec sheet</a> for more options
	CPMSA Cylindrical Pole Mount Splice Access <ul style="list-style-type: none"> <li>• Designed to mount atop of 4" round poles</li> <li>• Provided with splice compartment</li> </ul>	Example: CPMSA TC DBL See <a href="#">spec sheet</a> for more options
	CSM Cylindrical Stanchion Mount <ul style="list-style-type: none"> <li>• Available in heights from 12" to 48" in 6" increments</li> <li>• Provided with front access cover for easy wiring and installation.</li> </ul>	Example: CSM12 XLSC BRT See <a href="#">spec sheet</a> for more options
	CWMA T Cylindrical Wall Mount Arm End or Top <ul style="list-style-type: none"> <li>• Available in lengths from 12", 18", 24"</li> <li>• Supplied with splice cover for easy wiring and installation</li> <li>• End mounting only available with SAF7</li> </ul>	Example: CWMA12T TC BRS See <a href="#">spec sheet</a> for more options
	PAR/PAS Pole Arm Mounting <ul style="list-style-type: none"> <li>• Mid pole arms for use on 4", 5", 6" round or square poles</li> <li>• Pole arms lengths available in 12", 18", 24"</li> <li>• One mounting location on the top of each arm</li> </ul>	Example: PAR4/12 XLSC BL See <a href="#">spec sheet</a> for more options
	PATR/PATS Pole Arm Mounting <ul style="list-style-type: none"> <li>• Mid pole arms for use on 4", 5", 6" round or square poles</li> <li>• Pole arms lengths available in 12", 18", 24"</li> <li>• Two mounting locations on the top of each arm</li> </ul>	Example: PATS5/18 XLSC BZ See <a href="#">spec sheet</a> for more options
	TNM Tenon Mount <ul style="list-style-type: none"> <li>• Accepts 2-3/8" tenon mount fixture</li> <li>• Mounts independently over recessed 4-0/4-5 box or conduit stub</li> </ul>	Example: TNM BL See <a href="#">spec sheet</a> for more options

## EXTERNAL ACCESSORIES

		Part #
	<ul style="list-style-type: none"> <li>WRG -Wire Rock Guard</li> </ul>	Example: WRGSAF28 BL
	<ul style="list-style-type: none"> <li>FGS- Full Glare Shield</li> </ul>	Example: FGSSAF28 DDB
	<ul style="list-style-type: none"> <li>GS- Glare Shield</li> </ul>	Example: GSSAF28 BL

## ACCESSORY OPTIONS

### FRESCO CONTROL SYSTEM

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

Refer to [FRESCO](#) spec sheet for additional details and options.



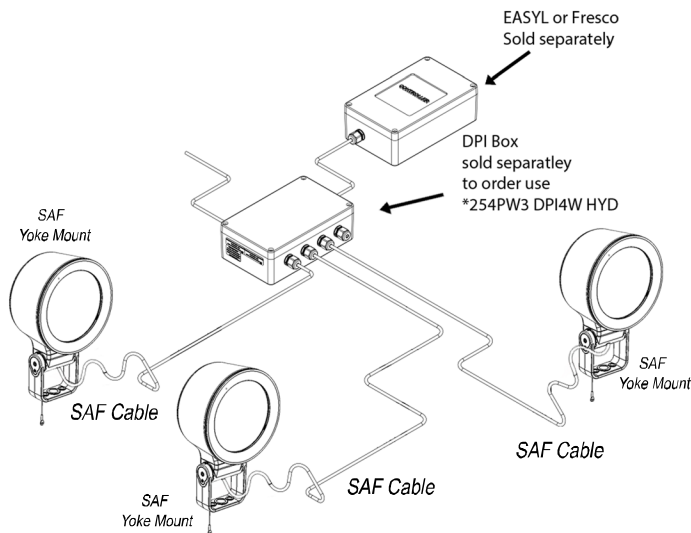
### DMX / POWER INTEGRATOR

Model
<b>DPI4WHYD</b> DPI4WHYD - DMX/Power Integrator Box

Refer to [DPI4WHYD](#) spec sheet for additional details.



## WIRING AND LAYOUT DESIGN



### WIRING DETAIL- DMX RGBW FIXTURE



## 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.

**DISTRIBUTION:** Available in 10DEG, 15DEG, 20DEG, 30DEG, 40DEG, 50DEG, 70DEG add 15VX60H, 30VX60H, 60VX15H and 60VX30H.

**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. Yoke mount luminaires are provided with 10' or 25' of 18-6 ST cord for power supply and control. Knuckle mount luminaires are provided with 18" leads (qty 3 #18 for power supply and qty 3 #22 for control). Provided with standard 24" safety cable.

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

**FINISH:** Exterior parts are protected by a zinc-infused super 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 power supply. 164 watts, minimum of L83 at 100,000 hours at 25°C. Class 1 electronic driver has a power factor >90%, THD<10%, and has an expected life of 100,000 hours with <1% failure rate. 10kV 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 grid rock guard.

**LISTING:** cCSAus, suitable for outdoor & wet location. IP68

**BUY AMERICAN:** Hydrel products are assembled in the USA. Our products meet the Buy America(n) government procurement requirements under FAR, DFARS, and DOT. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american)

**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](http://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.