



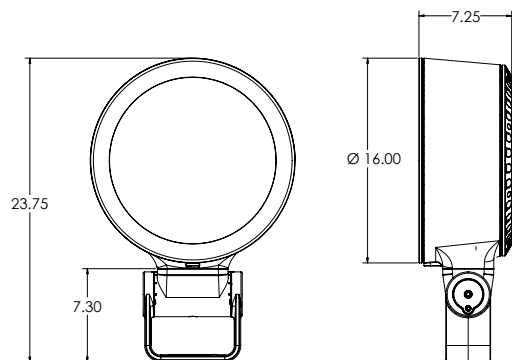
Specifications

Weight: 66lbs.

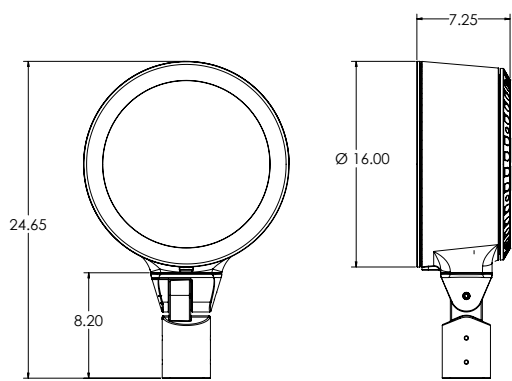
EPA: KTM: 2.00

YM: 2.10

DIMENSIONS



YOKE



KNUCKLE

SAF28 RGB 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
- Minimalist design that provides clean and intentional lines and transitions
- Industry leading flow through design achieve with separately sealed optical chamber and driver
- NOM Listed
- IK10 option available



IP68



Buy American

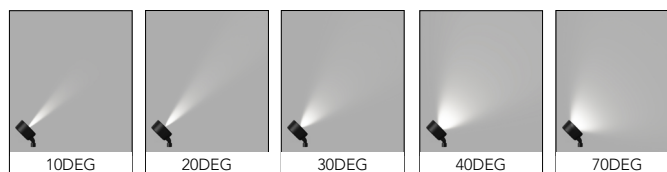
LUMEN PACKAGES

	10DEG	15DEG	20DEG	30DEG	40DEG	50DEG
Deliverd Lumens	4,584	4,374	4,345	4,286	4,217	4,187
Watts	163	163	163	163	163	163
LPW	28	27	27	26	26	26
Max Candela	115,364	38,930	26,672	10,810	6,283	4,552
	70DEG	15Vx60H	30Vx60H	60Vx15H	60Vx30H	
Deliverd Lumens	4,058	4,472	4,318	4,185	4,125	
Watts	163	163	163	163	163	
LPW	25	27	26	26	25	
Max Candela	2,770	11,191	6,170	11,602	5,864	

Individual Channel Lumens	R	G	B
Delivered Lumens	2714	3803	921

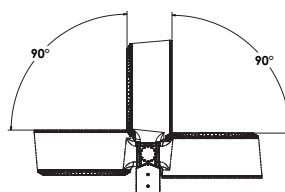
Note: Information based on RGB @ maximum output per channel and 40DEG

STANDARD DISTRIBUTION

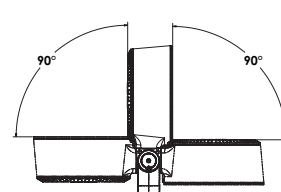


AIMING DETAIL

SAF28 KNUCKLE



SAF28 YOKE



ORDERING INFORMATION

EXAMPLE: SAF28 LED P1 RGB 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	RGB	MVOLT	10DEG	10°	FLC	Flat Lens Clear	Note: FLC lens IK08. For IK10 use external WRG option.	KTM	Knuckle Tenon Mount		
						15DEG	15°						YM	Yoke
						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 Note: Cord length required for Yoke Mounting only	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					
		IHL	Honeycomb Louver			CF	Custom Finish							
CWMA_T	Cylindrical Wall Mount Arm Top 12", 18" and 24"	Note: Only one Internal accessory can be choosen						DBL	Black Smooth					
PAR_/_	Pole Arm Mounting for Round Poles, available to use with 4", 5", 6" pole and available in lengths of 12", 18", 24"	Hardware						DDB	Designer Bronze					
		TPH	Tamper proof hardware					DNA	Natural Aluminum					
PAS_/_	Pole Arm Mounting for Square Poles, available to use with 4", 5", 6" pole and available in lengths of 12", 18", 24"							NBS	Natural Bronze Smooth					
								VET	Verde Textured					
PATR_/_	Pole Arm Twin Mounting for Round Poles, available to use with 4", 5", 6" pole and available in lengths of 12", 18", 24"							WH	White Textured					
								WHS	White Smooth					
PATS_/_	Pole Arm Twin Mounting for Square Poles, available to use with 4", 5", 6" pole and available in lengths of 12", 18", 24"							_Z	Zinc Undercoat (i.e.BLZ) Note: Zinc Undercoat provides corrosion protection for Marine Environment and Natatorium Construction					
								CF	Custom Finish					
								RALTB	RAL Paint Finishes					
								Note: RALTB 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.						
TNM		Tenon Mount												

*Required Fields

PERFORMANCE DATA

LUMEN OUTPUT – SAF28_RGB

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		RGB		
			°H	°V	°H	°V	Max CD	Lumens	LPW
P1	163	10DEG	18	18	9	9	115,364	4,584	28
		15DEG	32	32	16	16	38,930	4,374	27
		20DEG	39	39	20	20	26,672	4,345	27
		30DEG	61	61	33	33	10,810	4,286	26
		40DEG	78	78	47	47	6,283	4,217	26
		50DEG	90	90	56	56	4,552	4,187	26
		70DEG	111	111	77	77	2,770	4,058	25
		15Vx60H	95	34	66	16	11,191	4,472	27
		30Vx60H	98	61	66	33	6,170	4,318	26
		60Vx15H	33	93	16	65	11,602	4,185	26
		60Vx30H	62	100	34	68	5,867	4,125	25

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

ELECTRICAL LOAD

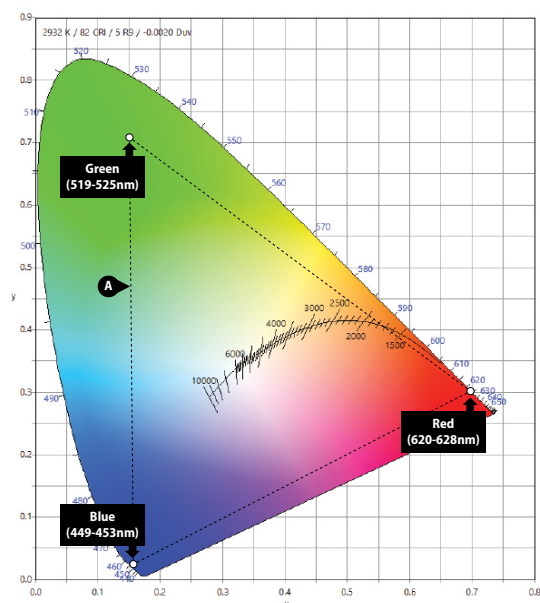
Light Engines	Drive Current (mA)	System Watts	Current (A)			
			120	208	240	277
RGB P1 10+deg	600	163	1.36	0.78	0.68	0.59

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		RGB Lumen Multiplier
0°C	32°F	1.28
10°C	50°F	1.18
20°C	68°F	1.06
25°C	77°F	1.00
30°C	86°F	0.95
40°C	104°F	0.83

RGB GAMUT AND RANGE



A RGB 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** Three Handles: Red, Green, Blue
- Data** DMX512/RDM





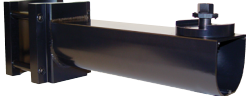
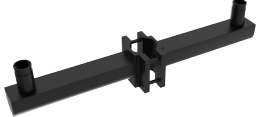
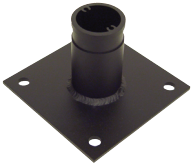
The RGB Range reaches the full range of saturated colors and subtle pastels to create bold transformational effects.

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 (xxVXxxH)	
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

SAF MOUNTING ACCESSORIES

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

EXTERNAL ACCESSORIES

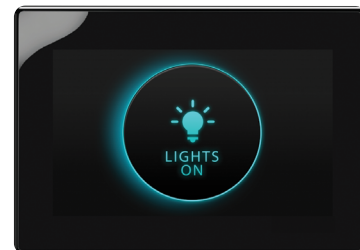
		Part #
	<ul style="list-style-type: none"> WRG -Wire Rock Guard 	Example: WRGSAF28 BL
	<ul style="list-style-type: none"> FGS- Full Glare Shield 	Example: FGSSAF28 DDB
	<ul style="list-style-type: none"> GS- Glare Shield 	Example: GSSAF28 BL

ACCESSORY OPTIONS

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.



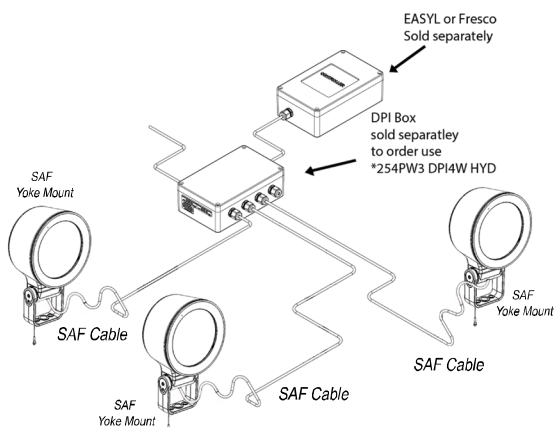
DMX / POWER INTEGRATOR

Model
DPI4WHYD DPI4WHYD - DMX/Power Integrator Box

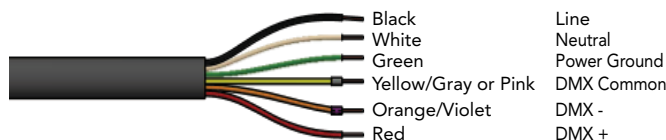
Refer to [DPI4WHYD](#) spec sheet for additional details.



WIRING AND LAYOUT DESIGN



Wiring Detail - DMX RGB 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. 50/60Hz.

DISTRIBUTION: Available in 10DEG, 15DEG, 20DEG, 30DEG, 40DEG, 50DEG, 70DEG, 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. 163 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

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.