HYDREL®

8200 SERIES
Yoke Mount; 72 LED
DMX Color Changing

HIGHLIGHTS

- Expected service life of over 100,000 hours
- Corrosion resistant, zinc-infused, durable TGIC thermoset powder coat finish
- Copper free aluminum housing
- IP67 rated
- 3G rated
- Available in RGBW as custom

5 YEAR warranty

LED

IP67

Architainment Color

Buy American

Specifications

EPA:	2.10 ft²
	0.195 m²
Length:	15-3/4"
	400 mm
Width:	7-1/4"
	185 mm
Height:	20-3/4"
	527 mm
Height²:	17-3/4"
	451 mm
Weight:	54lbs

DIMENSIONS

15-3/4" (400 mm)

7-1/4" (185 mm)

17-3/4" (451 mm)

20-3/4" (527 mm)

9-1/4" (235)

2-3/4" (95)

1-1/2" (38)

7/8" DIA (22)   7/16" DIA (11)
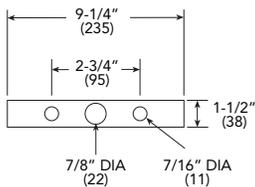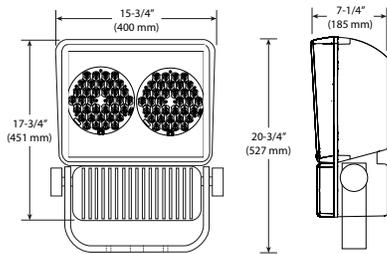
YOKE FOOT PRINT

LUMEN PACKAGES

	NSP	MFL	FL	WFL	HSP	HFL
Delivered Lumens	4,109	4,354	4,272	4,301	4,358	4,485
Watts	193	193	193	193	193	193
LPW	21	23	22	22	23	23

Note: Information based on all colors full on

Project 21-12877-3 Date 6/25/2021	**Catalog Number**			**Type**
RGB/W | Saturated Color	8200 72LED RGB MVOLT FL YM RDM BL			
Submitted By	**Notes**			
16500, INC				

sixteen**5**hundred

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ORDERING INFORMATION

EXAMPLE: 8200 72LED RGB MVOLT WFL YM RDM BL

Model*	Lamp type*	LED Color*	Voltage*		Distribution*		Mounting*		Mounting Accessories	
8200	**72LED**	**RGB**	**MVOLT**	(120-277 Volt)	**NSP**	Narrow Spot	**YM**	Yoke Mount	**EWM_**	Ext. Wall Mt Available 18"- 36" in 6" increments
		Note: Available in RGBW as custom			**MFL**	Medium Flood			**PAR__/__**	Pole Arm Round 4", 5", or 6" Pole 12", 18", or 24" length (i.e. PAR5/18)
					FL	Flood			**PAS__/__**	Pole Arm Square 4", 5", or 6" Pole 12", 18", or 24" length (i.e. PAS4/24)
					WFL	Wide Flood			**PATR__/__¹**	Pole Arm Twin Round 4", 5", or 6" Pole 12", 18", or 24" length (i.e. PATR6/12)
					VWFL	Very Wide Flood (no optics)				
					HSP	Horizontal Spot			**PATS__/__¹**	Pole Arm Twin Square 4", 5", or 6" Pole 12", 18", or 2 4" length (i.e. PATS6/12)
					HFL	Horizontal Flood				

Mounting Accessories (Cont'd)		Accessories		Control		Finish*				
PMSA_	Pole Mt Splice Access	**Enternal²**		**RDM³**	Remote device management	**BL**	Black	**WH**	White
PMT¹	Pole Mount Tee	**BD**	Barn Doors			**BZ**	Bronze	**CF**	Custom
PSSA	Ped. Stanchion Splice Access	**FGS**	Full Glare Shield			**DDB**	Dark Bronze	**__Z⁴**	Zinc Undercoat (i.e. BLZ)
SMSA_	Stan. Mt Splice Access available 12"-48" in 6" increments	**HGS**	Half Glare Shield			**DNA**	Natural Aluminum	**RALTBD**	RAL Paint Finishes
		WRG	Wire Rock Guard			**GN**	Green		*Note:*
SMT12/36¹	Stanchion Mount Tee, 12" height					**GR**	Gray		*RALTBD for pricing only, replace with applicable RAL call out when ready to order. See the RALBROUCHURE for available options. It is recommended only use textures paint for Hydrel fixtures.*
SMT18/36¹	Stanchion Mount Tee, 18" height					**SND**	Sand		
SMT24/36¹	Stanchion Mount Tee, 24" height					**STG**	Steel Gray		
						TVG	Terra Verde Green		

ELECTRICAL LOAD

Light Engines	Drive Current (mA)	System Watts	Current (A)			
			120	208	240	277
72LED	750mA	193W	1.61	0.93	0.80	0.70

*Required Catagories
Notes:
1   Requires (2) two fixtures per mounting.
2   Each option is mutually exclusive, choose one only.
3   RDM = Field discoverable and field programmable DMX.
4   Add Zinc undercoat for harsh environments.

PERFORMANCE DATA

LUMEN OUTPUT

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.

Photometric data for underwater lighting is based on the theoretical output of a dry fixture. The final output of a fixture placed in water is determined by the depth that the fixture is placed,the clarity and turbulence of the water and the color of the surrounding concrete and/or tile.

	Distribution	NEMA TYPE	Beam Angle (50%) H x V	Field Angle (10%) H x V	Watts	LPW	Delivered Lumens
All colors full on	NSP	1 x 1	7 x 7	16 x 17	193	21	4,109
	MFL	3 x 3	21 x 21	38 x 38	193	23	4,354
	FL	5 x 5	59 x 63	77 x 81	193	22	4,272
	WFL	6 X 6	90 x 107	121 x 127	193	22	4,301
	HSP	4 x 2	38 x 9	53 x 20	193	23	4,358
	HFL	2 x 4	9 x 30	19 x 46	193	23	4,452

OPERATING TEMPERATURE: -30°C Through 40°C

RECOMMENDED CONTROLLERS

Easyl DMX touchscreen
http://www.acuitybrands.com/products/detail/210270/Fresco/Easyl/Easyl-DMX512A-Show-Controller

Easyl™ Solo: Is a standalone entry-level controller enabling show creation and playback directly at the LCD touchscreen.

Easyl™ Touch: features an astronomic time clock for automating shows and expands the controller's features by accepting inputs from remote button stations, and button station contact closure inputs.

Easyl™ Pro: is further enhanced by using Easyl Studio™ computer software to create multi-zone shows, and Easyl Pro features a 20 hour DMX512 capture from a theatrical console.

Fresco
http://www.acuitybrands.com/products/detail/223381/Fresco/Fresco/Touchscreen-Lighting-Controllers
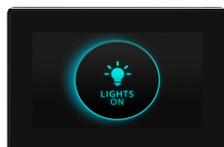
FCS
- Create and edit 36 lighting scenes including intensity, color, and color temperature
- Integral astronomic timeclock with battery backup for system scheduling
- Direct DMX control for 1 universe (512 slots)
- Internal Bluetooth® radio for wireless App control

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DMX WIRING - FLOOD

Up to 32 Fixtures Per DMX Line —
if there are more than 32 fixtures use a
splitter to create a new bus.

DMX512 Bus network may
be no more than 1,000 feet
(300 meters) with no more
than 32 devices per bus.

128 Fixtures
total per
DMX Universe

DMX Splitter
optional depending on
installation (by others)

DMX Console
(ordered separately)
Easyl Pro controller by Acuity is
the recommended console

**Parallel bus for
more than 32
luminaires**

**Fixture
1**

OUT

Mounting

Power Wire

DMX IN

**Fixture
2**

OUT

Mounting

Power Wire

Mounting
See page 3 for
detailed wiring
diagrams inside
mounting
accessory/Jbox.

**Fixture
10**

OUT

Mounting

Power Wire

120 OHM

Up to 32 Fixtures
Per DMX Line

Power (120 - 277V AC)

Notes:
1.   DMX512 must be terminated by a 120 ohm resistor.
2.   Signal cable by others, cable must be two-pair with a maximum capacitance
     of 12.8 pF/ft. and a impedance of 120 ohm.

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DMX CONNECTION AND TERMINATION - WIRING DIAGRAM
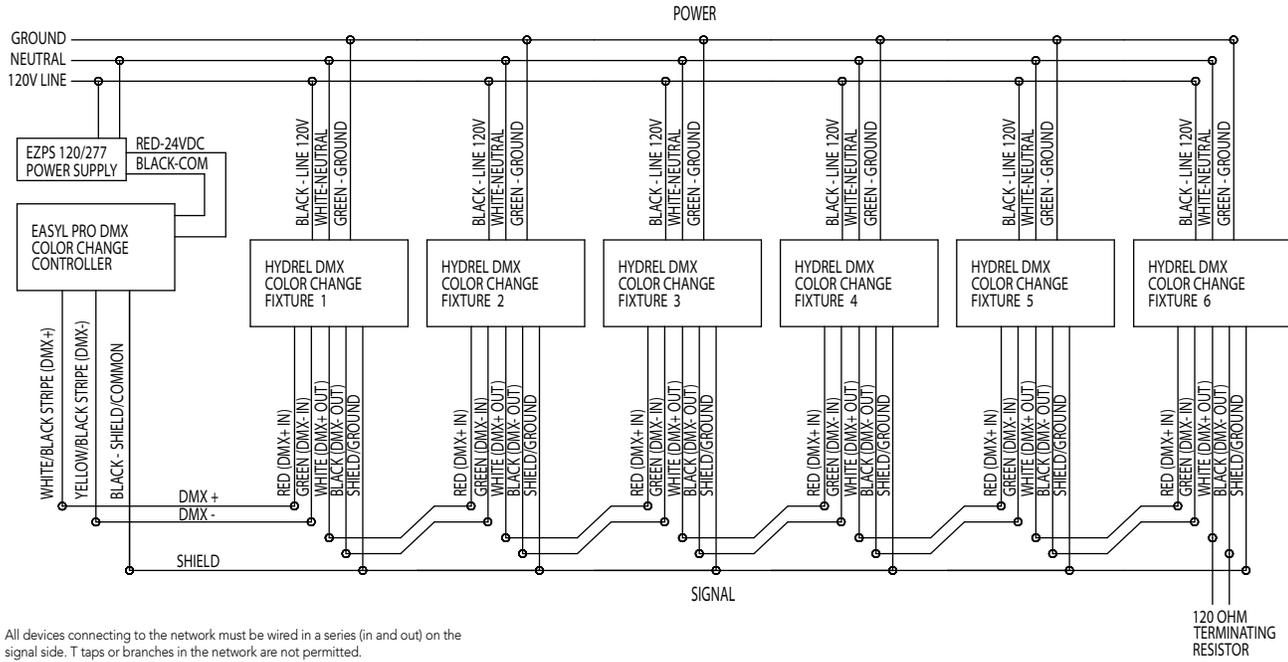
All devices connecting to the network must be wired in a series (in and out) on the signal side. T taps or branches in the network are not permitted.

sixteen**5**hundred

MOUNTING OPTIONS

PMSA
7" POLE MOUNT
WITH SPLICE ACCESS
EPA: 0.18

3-1/4"
(83mm)

7"
(178mm)
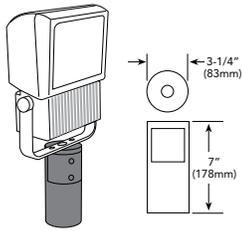
EWM
EXTENDED WALL MOUNT
18" - 36" LENGTHS

6-1/2"
(165mm)

18"
(457mm)

3-3/4"
(95mm)
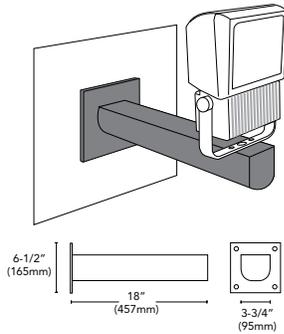
PAR/PAS & PATR/PATS (SINGLE & TWIN ARM)
POLE ARM ROUND/SQUARE
12" - 24" LENGTH AVAILABLE
EPA: 0.52 per 18" arm

5-1/2"
(142mm)

3-1/2"
(89mm)

3-5/8"
(92mm)

6"
(152mm)

12"
(304mm)
18"
(457mm)
24"
(608mm)
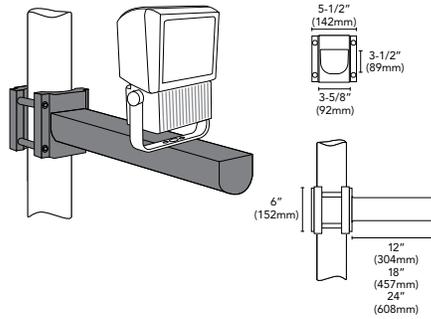
PMT
POLE MOUNT TEE
EPA: 1.05

36"
(914mm)

3-1/2"
(89mm)

6-1/2"
(165mm)
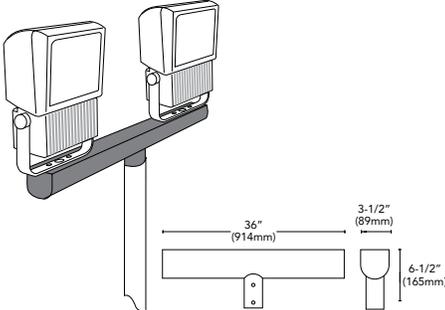
SMT
STANCHION MOUNT TEE
12", 18" or 24" HEIGHTS AVAILABLE

36"
(914mm)

3-1/2"
(89mm)

6-1/2"
(165mm)

12"
(304mm)
18"
(457mm)
24"
(610mm)

6"
(152mm)
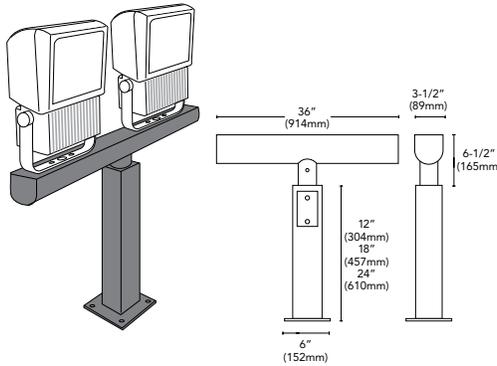
SMSA/PSSA
SMSA STANCHION AVAILABLE IN 12" - 48"
HEIGHTS (example: SMSA18, SMSA24)
PSSA Pedestal Stanchion - 7" HEIGHT

6"
(152mm)

6"
(152mm)

18"
(457mm)

6"
(152mm)

EXTERNAL ACCESSORIES

5.00"
127 mm

13.40"
341 mm

9.31"
237 mm

HGS - Half Glare Shield

5.00"
127 mm

10.63"
270 mm

13.44"
342 mm

5.56"
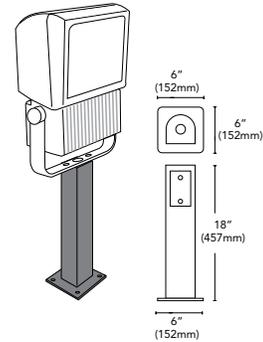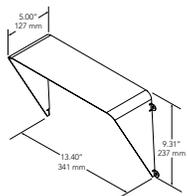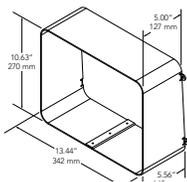
FGS - Full Glare Shield

BD - Barn Doors

7.51"
191 mm

13.84"
352 mm

MRG - Wire Rock Guard

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sixteen**5**hundred

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8200 SERIES | 7
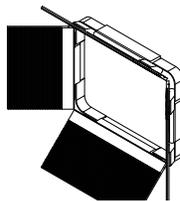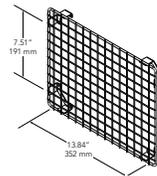
SPECIFICATIONS AND FEATURES

MATERIAL: Die Cast Copper Free Aluminum (A360) Housing and Doors.

LED: RGB LED array, 193 input watts max.. Lumen maintenance of individual light sources has been independently tested using IESNA LM80 standards.

OPTICS: NEMA flood (2x2 through 6x6), horizontal flood (4x2), vertical flood (2x4).

LENS: Flat tempered glass for maximum resistance to impact and thermal shock.

MOUNTING: Aluminum yoke & stainless steel locking hardware with infinate aiming adjustment capabilities and a wide array of mounting accessories. The 8200 series can withstand up to a 3G vibration load rating per ANSI/IEEE C136.31. Luminaires are provided with 10' of 16-3 ST-W cord for power supply and 10' of DMX data cable.

CONTROL: DMX512. Color control is achieved through standard DMX512 hardware, at a maximum of 44 frames per second. All channels have logarithmic power for finer color and intensity control. Compatible with the Easyl and Fresco controllers from Acuity. Controllers must be ordered separately.

GLARE CONTROL: External Glare Control options include Barn Doors, Full and Half Glare Shields.

ELECTRICAL: Integral ELDO RGB power drive, MVOLT (120-277 volt) 50/60HZ LED Power Supply, dims to zero. THD< 20%, class 2 driver with 100% to 0% dimming.

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.

LISTING: CSA, CSA$_{US}$, IP67

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

WARRANTY: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/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.