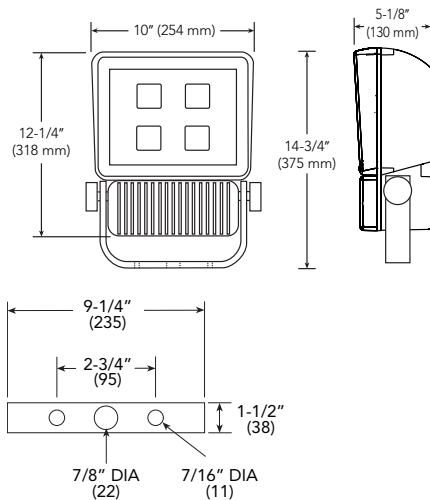




Specifications

EPA:	0.96 ft ² 0.089 m ²
Width:	10"
Depth:	254 mm
Height:	5-1/8"
	130 mm
Height:	14-3/4"
	375 mm
Height:	12-1/4"
	318 mm
Weight:	24.1lbs

DIMENSIONS



YOKE FOOT PRINT

8100 LED FLOOD

Limited Wavelength Amber Yoke Mount

HIGHLIGHTS

- COB technology with a precision optical system creating beam uniformity and superior glare control
- 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

5
YEAR
warranty

IP67


LUMEN PACKAGES

	NSP	NFL	MFL	FL	WFL	HFL	VFL
Delivered Lumens	1,056	1,408	1,112	1,101	1,125	1,277	1,277
Watts	38	38	38	38	38	38	38
LPW	28	37	29	29	29	33	33
Peak Candela	7,820	5,314	1,517	932	752	1,641	1,641

Note: Information based on Amber 591nm @ P1 PerformancePackage

ORDERING INFORMATION

EXAMPLE: 8100 LED P1 AMBLW MVOLT MFL YM SMSA18 BL

Series	Performance Package	Color Temperature	Voltage	Distribution	Mounting	Mounting Accessories (shipped separately)
8100 LED	P1 39 Watt	AMBLW 591nm Amber	MVOLT (120-277V)	NSP Narrow Spot NFL Narrow MFL Medium FL Flood WFL Wide HFL Horizontal VFL Vertical	YM Yoke Mount	ARJB Architectural Junction Box EWM_ Ext. Wall Mount Available 12"- 48" in 6" increments FJB Flush Mount Junction Box PAR_/_ Pole Arm Round 4", 5", or 6" Pole 12", 18", or 24" length (i.e. PAR5/18) PAS_/_ Pole Arm Square 4", 5", or 6" Pole 12", 18", or 24" length (i.e. PAS4/24) PATR_/_ ¹ Pole Arm Twin Round 4", 5", or 6" Pole 12", 18", or 24" length (i.e. PATR6/12) PATS_/_ ¹ Pole Arm Twin Square 4", 5", or 6" Pole 12", 18", or 24" length (i.e. PATS6/12)
Mounting Accessories (Cont'd)		Accessories		Finish		
PMSA_	Pole Mount Splice Access	<u>External (shipped separately)²</u>		BL	Black	SND Sand
PMT	Pole Mount Tee	BD	Barn Doors	BZ	Bronze	STG Steel Gray
PSSA	Ped. Stanchion Splice Access	FGS	Full Glare Shield	DDB	Dark Bronze	TVG Terra Verde Green
SMSA_	Stan. Mount Splice Access available 12"-48" in 6" increments	HGS	Half Glare Shield	DNA	Natural Aluminum	WH White
SMT12/24 ²	Stanchion Mount Tee, 12" height	WRG	Wire Rock Guard	GN	Green	CF Custom
SMT18/24 ²	Stanchion Mount Tee, 18" height	<u>Options (shipped installed)</u>		GR	Gray	_Z ⁴ Zinc Undercoat (i.e. BLZ)
SMT24/24 ²	Stanchion Mount Tee, 24" height	IDIM ³	Inline dimming (dims to 40%)	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.		
		LDIM	0-10 Volt dimming (dims to 20%)			
		PE	Button Photo Cell			
		PEPN	Part-Night Photo Eye			

ELECTRICAL LOAD

Light Engines	Drive Current (mA)	System Watts	Current (A)			
			120	208	240	277
P1	830mA	39W	0.33	0.19	0.16	0.14

PROJECTED LED LUMEN MAINTENANCE

Amber chips contain no phosphor so degradation is nominally zero.

LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

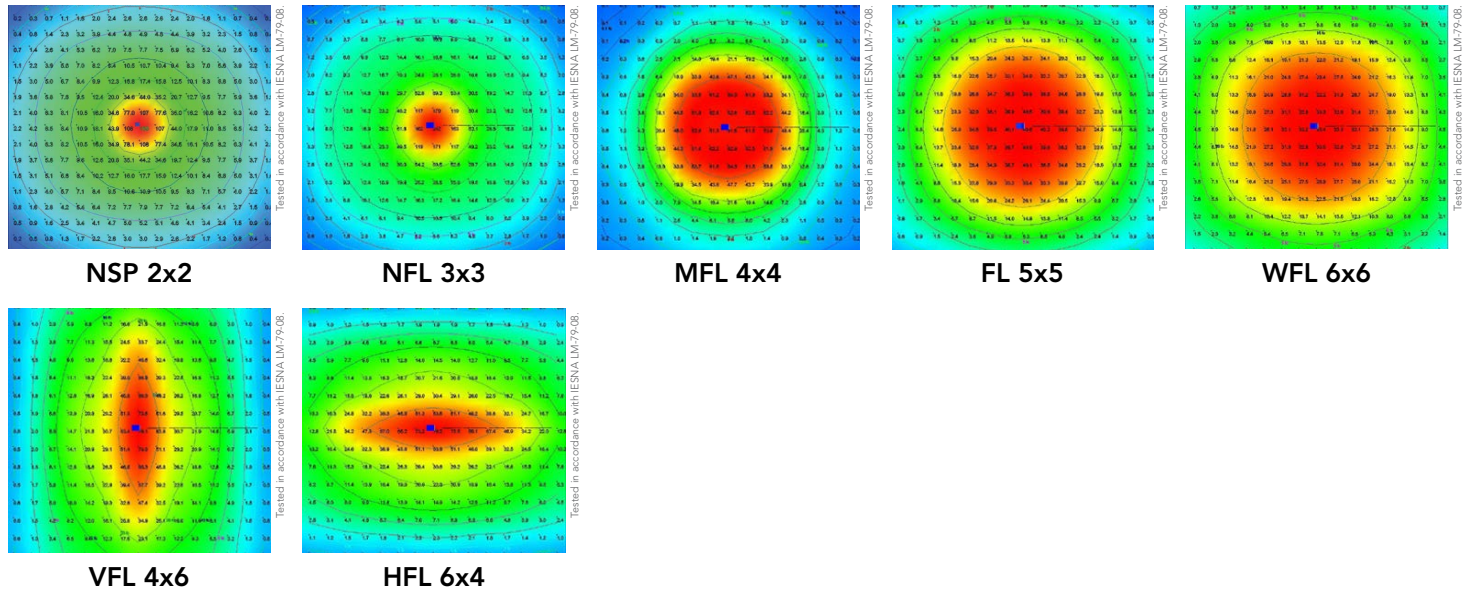
Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.00
10°C	50°F	1.00
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	1.00

Notes:

- These mounting accessories are dual mounts and come with 2 heads for each mounting.
- Options are mutually exclusive.
- For use with 120 volt trailing edge dimmers.
- Zinc undercoat for harsh environments.

PERFORMANCE DATA



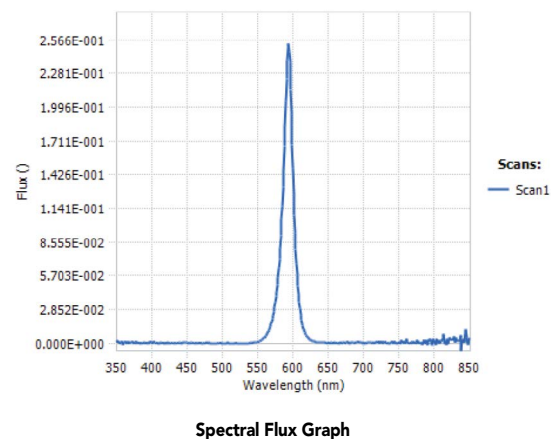
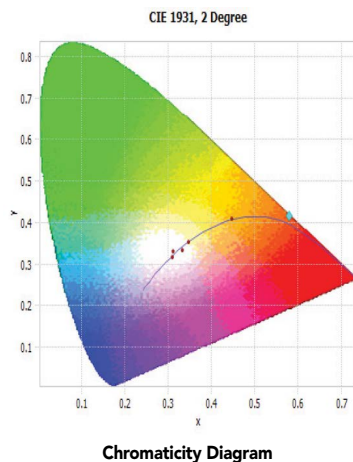
To see complete photometric reports or download .ies files for this product, visit www.hydrel.com

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.

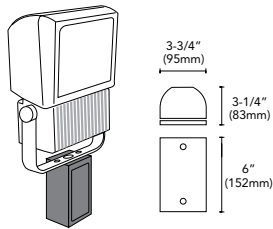
Performance Package	System Watts	Distribution Type	Field Angle		Beam Angle		Amber - 590nm		
			°H	°V	°H	°V	Max Cd	Lumens	LPW
P1	38	NSP	41	45	17	20	7820	1056	28
		NFL	50	54	21	22	5314	1408	37
		MFL	66	64	54	46	1517	1112	29
		FL	84	87	61	70	932	1101	29
		WFL	98	101	73	73	752	1125	29
		HFL	106	72	82	22	1641	1277	33
		VFL	72	106	22	82	1641	1277	33

OPERATING TEMPERATURE: -30°C through 50°C (P1 & P2) -30°C through 40°C (P3 & P4).

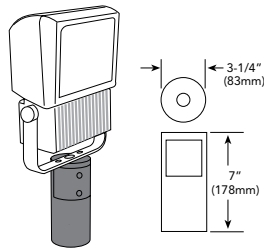


MOUNTING OPTIONS

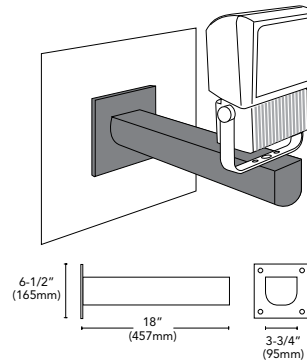
ARJB
ARCHITECTURAL JUNCTION BOX



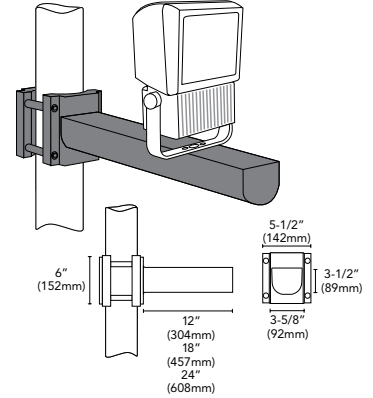
PMSA
7" POLE MOUNT
WITH SPLICE ACCESS
EPA: 0.13



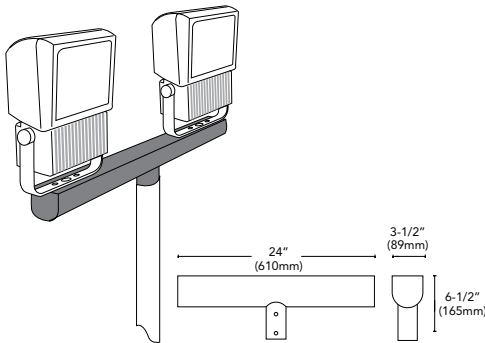
EWM
EXTENDED WALL MOUNT
18" - 36" LENGTHS



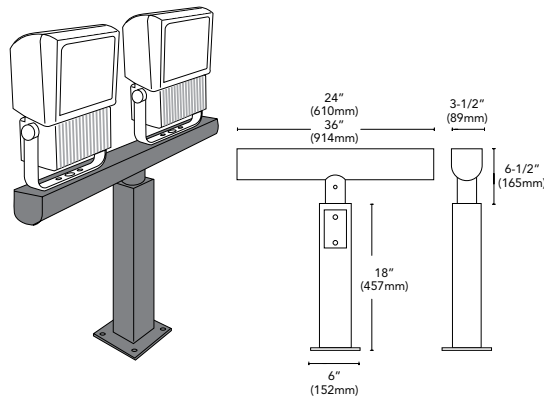
PAR/PAS & PATR/PATS (SINGLE & TWIN ARM)
POLE ARM ROUND/SQUARE
12" - 24" LENGTH AVAILABLE
EPA: 0.52 per 18" arm



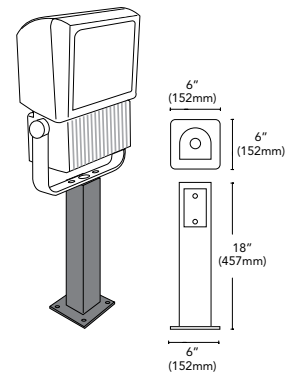
PMT
POLE MOUNT TEE
EPA: 0.70



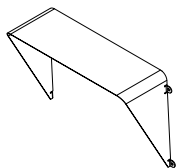
SMT
STANCHION MOUNT TEE



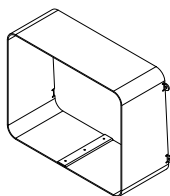
SMSA/PSSA
SMSA STANCHION AVAILABLE IN 12" - 48"
HEIGHTS (example: SMSA18, SMSA24)
PSSA Pedestal Stanchion - 7" HEIGHT



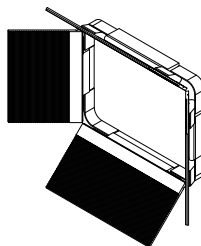
EXTERNAL ACCESSORIES



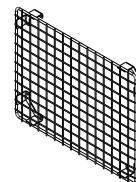
HGS - Half Glare Shield



FGS - Full Glare Shield



BD - Barn Doors



MRG - Wire Rock Guard

SPECIFICATIONS AND FEATURES

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

LED: High density LED module with a true Amber rated at 591 nano-meter.

OPTICS: NEMA flood (3x3 through 6x6), horizontal flood (6x4), vertical flood (4x6).

LENS: Tempered borosilicate glass for maximum resistance to impact and thermal shock.

MOUNTING: Aluminum yoke & stainless steel locking hardware with infinite aiming adjustment capabilities and a wide array of mounting accessories. The 8100 series can withstand up to a 3G vibration load rating per ANSI/IEEE C136.31. Luminaires are provided with 10' of 18-3 ST-W cord for power supply.

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

ELECTRICAL: MVOLT (120-277) LED power supply. 100-163 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.

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: IP67, CSA, CSA_{US}

GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

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.