HYDREL

CATALOG NUMBER

NOTES

TYPE

8200HL LED FLOOD

Hazardous Location

371W; 35,000 Lumens; 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

LED

IP67

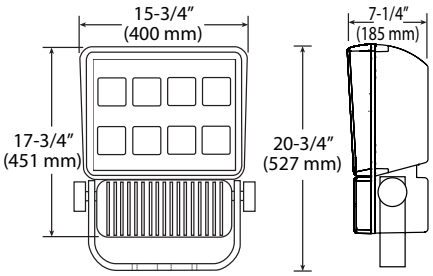
BAA

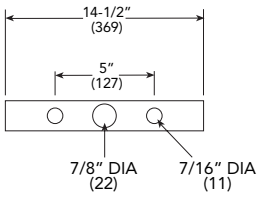
BABA

Specifications

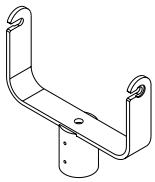
EPA:	2.10 ft²
	0.195 m²
Length:	15-3/4"
	400 mm
Width:	7-1/4"
	185 mm
Height:	20-3/4"
	527 mm
Height²:	17-3/4"
	451 mm
Weight:	58lbs

DIMENSIONS





YOKE FOOT PRINT



YOKE WITH INTEGRAL TENON

LUMEN PACKAGES

	NFL	MFL	FL	WFL	HFL	VFL
Delivered Lumens	31,582	26,992	25,386	27,145	29,528	29,500
Watts	338	338	338	338	338	338
LPW	93	80	75	80	87	87
Peak Candela	165,587	42,177	23,995	18,589	50,368	50,368

Note: Information based on 4000K @ P3 PerformancePackage

ORDERING INFORMATION

EXAMPLE: 8200HL LED P4 40K MVOLT WFL YM SMSA18 BL

Series	Performance Package	Color Temperature	Voltage	Distribution	Mounting
8200HL LED	**P1** 220 Watt **P2** 300 Watt **P3** 338 Watt **P4** 371 Watt	**30K** 3000K CCT **40K** 4000K CCT **50K** 5000K CCT	**MVOLT** (120-277V)	**NFL** Narrow **MFL** Medium **FL** Flood **WFL** Wide **HFL** Horizontal **VFL** Vertical	**YM** Yoke Mount **YMTM**[1] Yoke Mount with Tenon Slipfitter (mounts over 2-3/8" OD tenon)

Mounting Accessories (shipped separately)			
EWM_	Ext. Wall Mount Available 18"- 36" in 6" increments	**TNM**[3]	Tenon Mount
PAR__/__	Pole Arm Round 4", 5", or 6" Pole 12", 18", or 24" length (i.e. PAR5/18)	**PMSA_**	Pole Mount Splice Access
PAS__/__	Pole Arm Square 4", 5", or 6" Pole 12", 18", or 24" length (i.e. PAS4/24)	**PMT**[2]	Pole Mount Tee
PATR__/__[2]	Pole Arm Twin Round 4", 5", or 6" Pole 12", 18", or 24" length (i.e. PATR6/12)	**PSSA**	Ped. Stanchion Splice Access
PATS__/__[2]	Pole Arm Twin Square 4", 5", or 6" Pole 12", 18", or 2 4" length (i.e. PATS6/12)	**SMSA_**	Stan. Mount Splice Access (available 12"-48" in 6" increments)
		SMT[2]	Stanchion Mount Tee

Notes: Mounting Accessories are for fixture mounting only. All electrical connections must be made in an approved hazardous location J-Box

Accessories	
External (shipped separately)[4]	
BD	Barn Doors
FGS	Full Glare Shield
HGS	Half Glare Shield
WRG	Wire Rock Guard
Safety (shipped installed)	
LASC	Safety Cable

Finish			
BL	Black	**SND**	Sand
BZ	Bronze	**STG**	Steel Gray
DDB	Dark Bronze	**TVG**	Terra Verde Green
DNA	Natural Aluminum	**WH**	White
		CF	Custom
GN	Green	**__Z**[5]	Zinc Undercoat (i.e. BLZ)
GR	Gray		

ELECTRICAL LOAD

			Current (A)			
Light Engines	**Drive Current (mA)**	**System Watts**	120	208	240	277
P1	750mA	220W	1.83	1.06	0.92	0.79
P2	950mA	300W	2.50	1.44	1.25	1.08
P3	1050mA	338W	2.82	1.63	1.41	1.22
P4	1150mA	371W	3.09	1.78	1.55	1.34

PROJECTED LED LUMEN MAINTENANCE

Data references the extrapolated performance projections for the **Fixture** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	P1			
	1.00	0.94	0.90	0.84
	P2			
	1.00	0.93	0.90	0.83
	P3			
	1.00	0.93	0.90	0.83
	P4			
	1.00	0.93	0.90	0.83

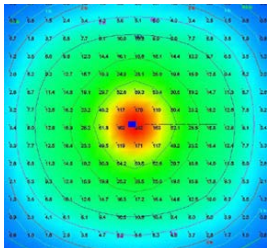
LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

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

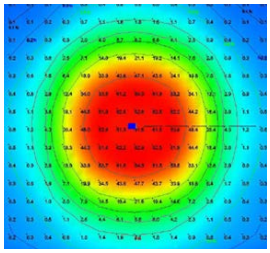
Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99

Notes:
1 YMTM mounts over a standard 2-3/8" (T20) Tenon, not valid with mounting accessories except TNM.
2 Requires (2) two fixtures per mounting.
3 TNM only available with YMTM.
4 Each option is mutually exclusive, choose one only.
5 Zinc Undercoat - For harsh environments.

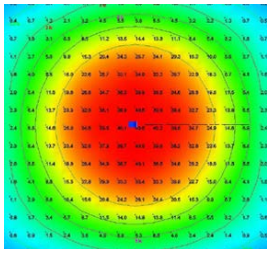
PERFORMANCE DATA



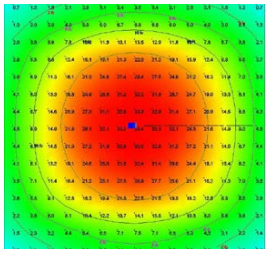
NFL 3x3



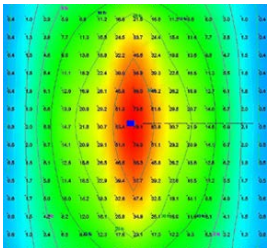
MFL 4x4



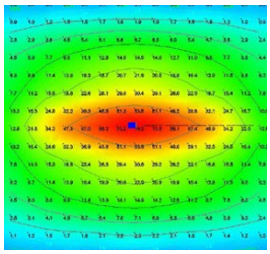
FL 5x5



WFL 6x6



VFL 4x6



HFL 6X4

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

LUMEN OUTPUT

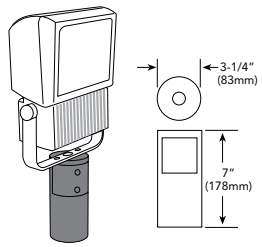
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory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

Peformance Package	System Watts	Distribution Type	Field Angle		Beam Angle		30K (3000K, 70CRI)			40K (4000K, 70CRI)			50K (5000K, 70CRI)		
			°H	°V	°H	°V	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW
P1	220W	NFL	35.6	36.7	14.9	15.0	88,793	23,511	107	89,718	23,770	108	74,322	22,367	102
		MFL	61.5	59.9	50.2	43.9	27,058	19,775	90	25,601	18,775	85	27,073	19,167	87
		FL	83.9	82.3	64.9	57.0	15,378	18,017	82	15,735	18,580	84	15,544	17,750	81
		WFL	102.8	101.6	71.6	73.3	12,238	18,470	84	12,693	18,990	86	12,135	18,098	82
		HFL	104.0	63.5	79.0	15.1	27,177	21,065	96	27,702	21,554	98	25,152	20,770	94
		VFL	63.5	104.0	15.1	79.0	26,923	21,080	96	27,702	21,570	98	25,031	20,784	94
P2	300W	NFL	35.6	36.7	14.9	15.0	132,557	29,945	100	154,871	29,295	98	157,166	30,092	100
		MFL	61.5	59.9	50.2	43.9	34,450	25,298	84	38,267	24,886	83	39,462	25,553	85
		FL	83.9	82.3	64.9	57.0	19,587	23,030	77	21,763	23,519	78	21,831	23,984	80
		WFL	102.8	101.6	71.6	73.3	16,821	25,450	85	17,490	25,200	84	17,399	25,663	86
		HFL	104.0	63.5	79.0	15.1	44,765	27,947	93	46,449	26,728	89	46,263	27,817	93
		VFL	63.5	104.0	15.1	79.0	44,765	27,919	93	46,449	26,701	89	46,263	27,789	93
P3	338W	NFL	35.6	36.7	14.9	15.0	143,959	32,425	96	165,587	31,582	93	169,250	32,667	97
		MFL	61.5	59.9	50.2	43.9	37,301	27,392	81	42,177	26,992	80	43,508	27,982	83
		FL	83.9	82.3	64.9	57.0	21,208	24,936	74	23,995	25,386	75	23,849	25,972	77
		WFL	102.8	101.6	71.6	73.3	18,214	27,558	82	18,859	27,145	80	19,149	28,279	84
		HFL	104.0	63.5	79.0	15.1	48,472	30,260	90	50,368	29,528	87	50,585	30,443	90
		VFL	63.5	104.0	15.1	79.0	48,472	30,231	89	50,368	29,500	87	50,585	30,413	90
P4	371W	NFL	35.6	36.7	14.9	15.0	157,265	34,089	92	177,392	34,919	94	175,101	34,631	93
		MFL	61.5	59.9	50.2	43.9	39,218	28,800	78	45,285	29,577	80	45,575	29,510	80
		FL	83.9	82.3	64.9	57.0	22,297	26,217	71	25,556	28,031	76	25,257	27,431	74
		WFL	102.8	101.6	71.6	73.3	19,517	29,201	79	20,321	30,098	81	20,267	29,739	80
		HFL	104.0	63.5	79.0	15.1	51,489	31,802	86	53,720	32,073	86	53,363	31,941	86
		VFL	63.5	104.0	15.1	79.0	51,489	31,770	86	53,720	32,041	86	53,363	31,908	86

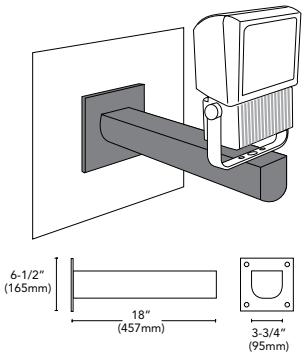
OPERATING TEMPERATURE: -30°C through 50°C (P1 & P2) -30°C through 40°C (P3 & P4).

MOUNTING OPTIONS

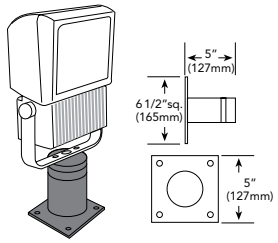
PMSA
7" POLE MOUNT
WITH SPLICE ACCESS
EPA: 0.18



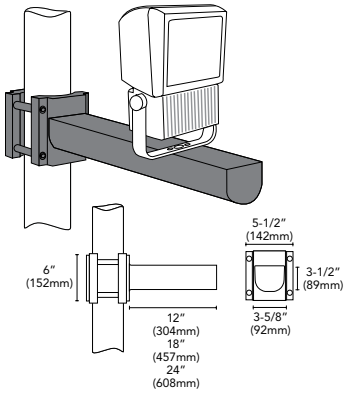
EWM
EXTENDED WALL MOUNT
18" - 36" LENGTHS



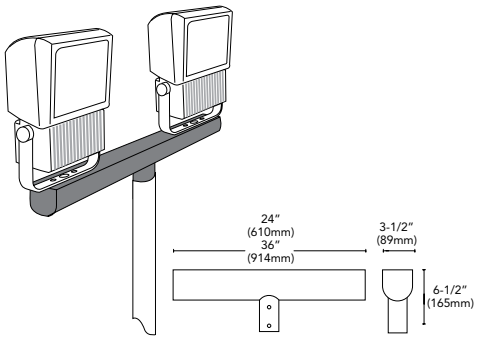
TNM
5" 2 3/8" OD TENON WITH
FLAT MOUNTING PLATE
(Fixture shown with YMTM
slifitter option)



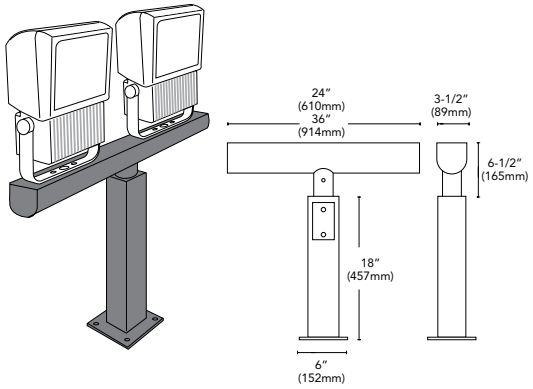
PAR/PAS & PATR/PATS (SINGLE & TWIN ARM)
POLE ARM ROUND/SQUARE
12" - 24" LENGTH AVAILABLE
EPA: 0.52 per 18" arm



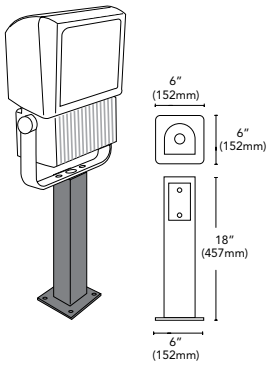
PMT
POLE MOUNT TEE
EPA: 1.05



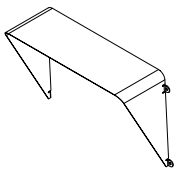
SMT
STANCHION MOUNT TEE



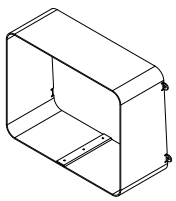
SMSA/PSSA
SMSA STANCHION AVAILABLE IN 12" - 48"
HEIGHTS (example: SMSA18, SMSA24)
PSSA Pedestal Stanchion - 7" HEIGHT



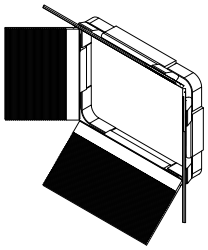
EXTERNAL ACCESSORIES



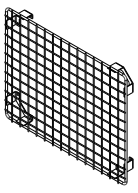
HGS - Half Glare Shield



FGS - Full Glare Shield



BD - Barn Doors



MRG - Wire Rock Guard

HAZARDOUS AREAS

Class 1	Flammable gases or vapors, are present in the air in quantities sufficient to produce explosive or ignitable mixtures.
Division	**Division 2**: Substance present in abnormal conditions,such as container failure or system breakdown
Group (meets A - D)	**Group A**: Acetylene **Group B**: Hydrogen, fuel or combustible gases with more than 30% Hydrogen, or gases of equivalent hazard such as butadiene, ethylene, oxide, propylene oxide and acrolein **Group C**: Carbon monoxide, ether, hydrogen sulfide, morphline, cyclopropane, ethyl, ethylene, or gases or equivalent hazard **Group D**: Gasoline, acetone, ammonia, benzene, butane, cyclopropane, ethanol, hexane, methanol, methane, vinyl chloride, natural gas, naphtha, propane or gases of equivalent hazard
Class 2	Dusts
Division	**Division 2**: Dust not normally suspended in an ignitable concentration (but may accidentally exist). Dust layers are present.
Group (meets F - G)	**Group F**: Carbon dusts (some are conductive,*and all are explosive) **Group G**: Flour, starch, grain, combustible plastic or chemical dust (explosive)
Class 3	Fibers and Flyings
Division	**Division 2:** Stored or handled in storage (exclusive of manufacturing)
Group	Textiles, wood-working, etc. (easily ignitable, but not likely to be explosive)

Note: The specific hazardous materials within each group and their automatic ignition temperatures can be found in Article 500 of the National Electrical Code

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: Chip on board (COB) LED technology, correlated color temperatures (CCT) of 3000K, 4000K, or 5000K (>70 CRI). All within 3MacAdam ellipses.

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: YM: Aluminum yoke & stainless steel locking hardware with infinate aiming adjustment capabilities and a wide array of mounting accessories. YMTM: Yoke mount with integral tenon slip-fitter for mounting over a 2-3/8" (T20) tenon. The 8200 series can withstand up to a 3G vibration load rating per ANSI/IEEE C136.31. Fixtures are provided with 3' of mineral cable.

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

ELECTRICAL: MVOLT (120-277) LED power supply. 220-371 watts, minimum L83 at 100,000 hours at 25°C. Class 1 electronic driver has a power factor >90%, THD<20%, 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. 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/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.