

Hazardous Star Flood (SFAHZ)

Hazardous Star Flood Specification

Hazardous Star Flood is a U.L. 844 Class I Division 2 listed hazardous location floodlight. Suitable for offshore oil and natural gas rigs, platforms and tankers. Available in 250 to 400 watt mogul base high pressure sodium lamp (SFAHZ Type B), 1000 watt mogul base high pressure sodium (SFAHZ Type C) and 400 watt mogul base metal halide or mercury vapor lamp (Type B). Available with (specify) 120, 208, 240, 277, 480 volt or 4MT(120, 208, 240, 277V) 60Hz ballast. The floodlight shall be completely pre-wired and factory assembled.

Basic Product Description

Copper free cast aluminum lamp and ballast housing. Hinged copper free cast aluminum lens frame with stainless steel slotted hex head captive screws. Front opening for easy relamping. Floodlight is finished in all weather bronze polyester powder coat finish. Floodlight shall include a sturdy two hole mounting yoke formed of high strength non-corrosive copper free aluminum. Wiring compartment access through lens door. Adjustable knuckle (2" to 2-1/2" pipe - 2-3/8" to 2-7/8" O.D.) mounting is available. All stainless steel hardware. The tempered clear glass lens is thermal shock and impact resistant. Porcelain lamp grip socket with nickel plated spring loaded center contact eliminates lamp loosening. Optional shock absorbing socket.

Ballast Characteristics

The SFAHZ floodlight shall contain a U.L. recognized High Power Factor, constant wattage auto-transformer type ballast and start and operate the lamp down to -20°F (-30°C) for metal halide and -40°F (-40°C) for high pressure sodium. For availability of 220/240V 50Hz ballasts - consult factory.

Reflector Assembly

Copper free cast aluminum hinged lens frame with silicone gasket provides easy front access to lamp. A precision formed anodized finished reflector provides a wide beam distribution.



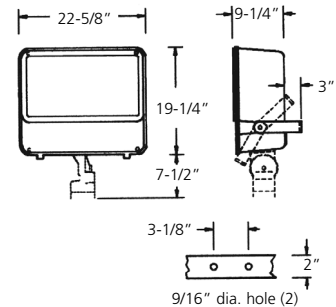
Type B



Type C

B and C suitable for wet locations
Lamp not included

Effective Projected Area
EPA = 3.02 SQ. FT.
WEIGHT = 50-70 lbs



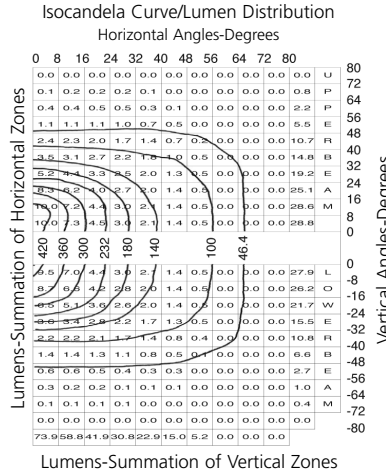
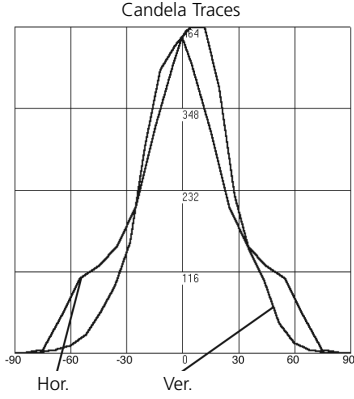
Accessories/Mounting Brackets, see
Accessory Page

Ordering Example						
Unit	Wattage	Photometrics	Mounting	Lamp Style	Voltage	Ballast Style
SFAHZ	4	7	1	H	120	H
Hazardous Star Flood	4 - 250 6 - 400 8 - 1000	5 or 7 - Wide Beam	1- Yoke Mount 4 - Knuckle Mount*	H - Metal Halide LS - High Pressure Sodium	120 208 240 277 4MT (120, 208, 240, 277V)	H - High Power Factor
				Accessories		
				V -	Visor (top)	
				PL -	Vandal Resistant Polycarbonate Shield	
				SC -	Stainless Steel Safety Cable	
				LS -	Lamp Support (std. on 1000w HPS)	
				SMS -	Shock Mounted Socket	
				UP -	For aiming above horizontal	
*Consult factory for knuckle mount						



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Photometrics

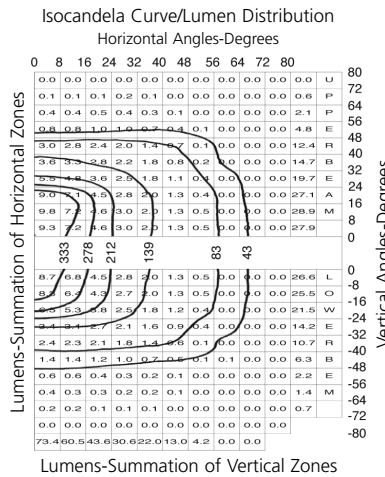
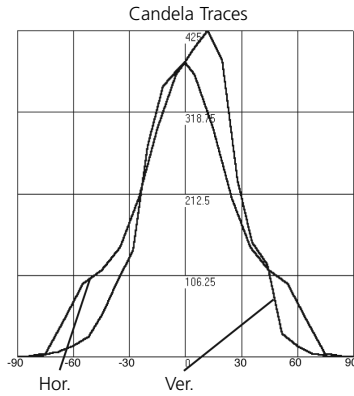


Fixture: SFAHZ-671LS
Lamp: 400 Watt Clear High Pressure Sodium

IES Type 7H X 5V
Max Candela 464
Hor Field Angle (10%) 132.6 deg
Ver Field Angle (10%) 98.1 deg
Field Lumens 473
Field Efficiency 47.3%
Total Lumens 498
Total Efficiency 49.8%

Candela & Lumen values are based on 1,000 lamp lumens. For other lamp lumen ratings, multiply candela and lumen values by the number: Lumens divided by 1,000.

Per 1,000 Lamp Lumens

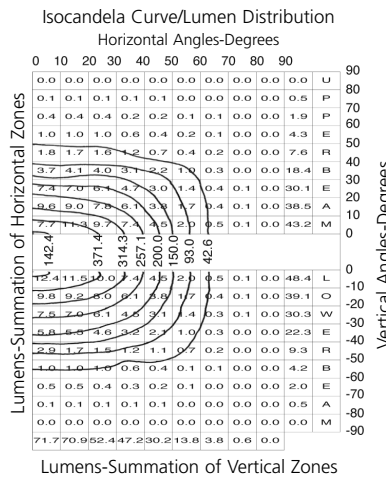
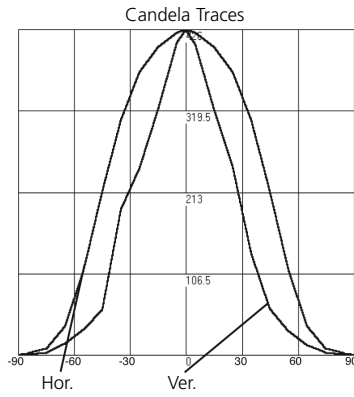


Fixture: SFAHZ-671H
Lamp: 400 Watt Clear Metal Halide

IES Type 7H X 5V
Max Candela 425
Hor Field Angle (10%) 133.1 deg
Ver Field Angle (10%) 98.9 deg
Field Lumens 466
Field Efficiency 46.6%
Total Lumens 493
Total Efficiency 49.3%

Candela & Lumen values are based on 1,000 lamp lumens. For other lamp lumen ratings, multiply candela and lumen values by the number: Lumens divided by 1,000.

Per 1,000 Lamp Lumens



Fixture: SFAHZ-851LS
Lamp: 1000 Watt Clear High Pressure Sodium

IES Type 6H X 6V
Max Candela 426
Hor Field Angle (10%) 128.9 deg
Ver Field Angle (10%) 103.1 deg
Field Lumens 568
Field Efficiency 56.8%
Total Lumens 606.6
Total Efficiency 60.7%

Candela & Lumen values are based on 1,000 lamp lumens. For other lamp lumen ratings, multiply candela and lumen values by the number: Lumens divided by 1,000.

Per 1,000 Lamp Lumens

Hazardous Star Flood (SFAHZ)

Ignition Temperatures

Class 1—Div.2

Groups B, C, and D

Representative Listing

Ordering Information

Catalog Number	Wattage	Temp. Rating	Lamps	Fix. Max Oper. Temp (deg.)*
SFAHZ-471LS-120H	250	T-2	High Pressure Sodium	282
SFAHZ-671LS-120H	400	T-1	High Pressure Sodium	315
SFAHZ-871LS-120H	1000	T-1	High Pressure Sodium	376
SFAHZ-671H-120H	400	T-2B	Metal Halide	253
SFAHZ-671M-120H	400	T-2B	Mercury Vapor	258

Gases/Vapors/Liquids	Ignition Temperatures		Fixture Temperature Not to Exceed (C°)	Gases/Vapors/Liquids	Ignition Temperatures		Fixture Temperature Not to Exceed (C°)
	F°	C°			F°	C°	
GROUP B				GROUP D (cont.)			
Acrolein	455	235	188	Cyclohexene	471	244	195
Butadiene	788	420	336	Cyclopropane	938	503	402
Ethylene Oxide	804	429	343	1,1-Dichloroethane	820	438	350
Formaldehyde	795	429	343	1,2-Dichloroethylene	860	460	368
Hydrogen	752	400	320	1,3-Dichloropropene	—	—	—
More fed gas w/>30% H2 by vol.	—	—	—	Di-isobutylene	736	391	313
Propylene Oxide	840	449	359	Ethane	882	472	378
Propyl Nitrate	347	175	140	Ethanol	685	363	290
				Ethyl Acetate	800	427	342
GROUP C				Ethyl Acralator (inhibited)	702	372	298
Acetaldehyde	347	175	140	Ethylamine	725	385	308
Allyl Alcohol	713	378	302	Ethyl Benzene	810	432	346
Dytlye Mercaptane	—	—	—	Ethyl Chloride	966	519	415
Butyraldehyde	425	218	174	Ethylenediamine	725	385	308
Carbon Monoxide	1128	609	487	Ethylene Dichloride	775	413	330
Crotonaldehyde	450	232	186	Ethyl Formate	851	455	364
Dicyclopentadiene	937	503	402	Gasoline	536-880	280-471	224-377
Diethyl Ether	320	160	128	Heptene	399	204	163
Diethylamine	594	312	250	Heptane	500	260	208
Di-isopropylamine	600	316	253	Hexane	437	225	180
Dimethylamine	752	400	320	2-Hexanone	795	424	339
1, 4 Dioxane	356	180	144	Hexenes	473	245	196
Di-n-propylamine	570	299	—	Isoamyl Acetate	680	360	288
Epichlorohydrin	772	411	329	Isoamyl Alcohol	662	350	280
Ethylene	842	450	360	Isobutyl Acrylate	800	427	342
Ethylenimine	608	320	256	Isoprene	743	395	316
Ethyl Mercaptan	572	300	240	Isopropyl Acetate	860	460	368
n-Ethyl Morpholine	—	—	—	Isopropylamine	756	402	322
Hydrogen Cyanide	1000	538	430	Isopropyl Ether	830	443	354
Hydrogen Selenide	—	—	—	Liquified Petroleum Gas	761-842	405-450	324-360
Hydrogen Sulfide	500	260	208	Mesityl Oxide	652	344	275
Isobutyraldehyde	385	196	157	Methane	999	537	430
Isopropyl Glycidyl Ether	—	—	—	Methanol	725	385	308
Methylacetylene	—	—	—	Methyl Acetate	850	454	363
Methylacetylene-Propadiene (stabilized)	—	—	—	Methyl Acrylate	875	468	374
Methyl Ether	662	350	280	Methylamine	806	430	344
Methyl Formal	460	238	190	Methylcyclohexane	482	250	200
Methyl Mercaptan	—	—	—	Methyl Ethyl Ketone	759	404	323
Monomethyl Hydrazine	382	194	155	Methyl Formate	840	449	359
Nitroethane	778	414	331	Methyl Isobutyl Ketone	840	440	352
Nitromethane	785	418	334	Methyl Isocyanate	994	534	427
Propionaldehyde	405	207	166	Methyl Methacrylate	792	422	338
n-Propyl Ether	419	215	172	2-Methyl-1-Propanol	780	416	333
Tetrahydrofuran	610	321	257	2-Methyl-2-Propanol	892	478	382
Triethylamine	—	—	—	Naphtha (Petroleum)	550	288	280
UDMH	480	249	199	Nonane	401	205	164
Valeraldehyde	432	222	178	Nonene	—	—	—
				Octane	403	206	165
GROUP D				Octene	446	230	184
Acetone	569	465	372	Pentane	470	243	194
Acetonitrile	975	524	419	1-Pentanol	572	300	240
Acrylonitrile	898	481	385	2-Pentanone	846	452	362
Allyl Chloride	905	485	388	1-Pentene	527	275	220
Ammonia	928	498	398	Propane	842	450	360
n-Amyl Acetate	680	360	288	1-Propanol	775	413	330
sec-Amyl Acetate	—	—	—	2-Propanol	750	399	319
Benzene	1040	560	488	n-Propyl Acetate	842	450	360
Butane	550	288	230	Propylene	358	455	364
1-Butanol	650	343	274	Propylene Dichloride	1035	557	446
2-Butanol	761	405	324	Pyridine	900	482	386
n-Butyl Acetate	790	421	337	Styrene	914	490	392
iso-Butyl Acetate	790	421	337	Toluene	896	480	384
sec-Butyl Acetate	—	—	—	Tripropylamine	—	—	—
Butylamine	594	312	250	Turpentine	488	253	202
Butylene	725	385	308	Vinyl Acetate	756	402	322
Chlorobenzene	1099	593	474	Vinyl Chloride	882	472	378
Chloroprene	—	—	—	Vinylidene Chloride	1058	570	456
Cyclohexane	473	245	196	Xylenes	867-984	464-529	371-423

Note: North Star Lighting cannot be held responsible for classifying hazardous environments. For proper classification, contact your insurance underwriter, or other qualified specifier.

