

# HAZFFLED Hazardous Locations Floodlights



HAZFFLED 30-60W



Slipfitter Mount Yoke Mount

HAZFFLED 100-150W



Slipfitter Mount Yoke Mount

HAZFFLED 200W



Slipfitter Mount Yoke Mount

## HAZFFLED - Class 1, Div 2 Floodlights



PROJECT:

DATE:

TYPE:

PREPARED BY:



### KEY FEATURES

- Floodlights for hazardous locations, available in **three** sizes and **five** wattages: Small: 30W, 60W; Medium: 100W, 150W; Large: 200W
- 5000K CCT**
- Certified for **Class 1, Div 2, Groups A, B, C, D** and has a temperature rating of **T4A**
- Ideal for use in: petroleum refineries, fuel servicing areas, utility gas plants, and aircraft hangars
- 120-277V, 480V** available on 100W, 150W, & 200W models
- Available accessories: Wire guards and hoods. Adjustable mounting arm available for small & medium models
- Yoke mount standard, slipfitter option available
- IP66** Rated
- 5-year, no-compromise warranty

## TECHNICAL SPECIFICATIONS

### COMPLIANCE

#### UL Listed

Suitable for wet locations. Suitable for mounting within 1.2m (4ft) of the ground.

#### DLC Listed

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements

MODEL#	VOLTAGE	DLC ID
HAZFFLED30	120-277V	S-CTE0WS
HAZFFLED60	120-277V	S-KNUFEM
HAZFFLED100	120-277V	S-Z3XTJA
HAZFFLED100/480	480V	S-9JD72M
HAZFFLED150	120-277V	S-6BJ9R0
HAZFFLED150/480	480V	S-SOLTO2
HAZFFLED200	120-277V	S-YBX63C
HAZFFLED200/480	480V	S-BP0RQY

### COMPLIANCE

#### Hazardous Location Classifications

##### Class 1, Division 2 (Groups A, B, C, D):

Class 1 (Hazardous Material in Surrounding Atmosphere): Flammable vapors or gases may be present

Division 2 (Presence of Hazardous Materials): Ignitable concentrations of hazards exist only under accidental system breakdowns or abnormal operating conditions

**Groups A, B, C, D (Hazardous Material in Surrounding Atmosphere):**  
A = Acetylene  
B = Hydrogen, butadiene, ethylene oxide, propylene oxide and acrolein  
C = Ethylene, cyclopropane and ethyl ether  
D = Acetone, ammonia, benzene, butane, ethanol, gasoline, hexane, methane, methanol, naphtha, natural gas, propane & toluene

#### NEC/CE T-CODE

30W: T5  
60W-100W : T4A  
150W-200W: T4

#### IP Rating

Ingress protection rating of IP66 for dust and water

#### IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

## TECHNICAL SPECIFICATIONS (CONTINUED)

### CONSTRUCTION

#### Cold Weather Starting

Minimum starting temperature is -40°C (-40°F)

#### Maximum Ambient Temperature

30W model: Suitable for use in up to 60°C (140°F)

60W-200W Models: Suitable for use in up to 55°C (131°F)

#### Housing

Die-cast aluminum

#### Mounting

Yoke and slipfitter

#### Tilt increment

Slipfitter: 6°

#### Lens

Clear glass

#### Reflector

High-reflective polycarbonate

#### Effective Projected Area

MODEL#	EPA
HAZFFLED30W & 60W	0.67
HAZFFLED 100W & 150W	1.24
HAZFFLED 200W	1.74

#### Gaskets

High-temperature silicone

#### Green Technology

Mercury and UV free. RoHS-compliant components.

#### Finish

Formulated for high durability and long lasting color

### OPTICAL

#### NEMA Type:

NEMA Beam Spread of 7H x 6V

### LED CHARACTERISTICS

#### LEDs

Long-life, high-efficacy, surface-mount LEDs

#### Color Uniformity

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standards for Specifications for the Chromaticity of Solid State Lighting (SLL) Products, ANSI C78.377-2017.

#### Color Consistency

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

### ELECTRICAL

#### Drivers:

Constant Current, Class 2, 120-277V, 50/60 Hz

**30W:** 0.25A @120V, 0.16A @208V, 0.14A @ 240V, 0.12A @ 277V

Constant Current, Class 1, 120-277V, 50/60 Hz

**60W:** 0.51A @120V, 0.32A @208V, 0.28A @ 240V, 0.24A @ 277V

**100W:** 0.86A @120V, 0.53A @208V, 0.46A @ 240V, 0.38A @ 277V

**150W:** 1.24A @120V, 0.88A @208V, 0.69A @ 240V, 0.55A @ 277V

**200W:** 1.72A @120V, 1.07A @208V, 0.93A @ 240V, 0.76A @ 277V

Constant Current, Class 1, 480V, 50/60 Hz

**100W:** 0.21A at 480V

**150W:** 0.32A at 480V

**200W:** 0.42A at 480V

#### Surge Protection

L/N-G 10KV, L-N 6KV

#### Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

#### THD:

**30W:** 6.0% at 120V, 13.7% at 277V

**60W:** 2.8% at 120V, 7.9% at 277V

**100W:** 2.1% at 120V, 6.4% at 277V

**150W:** 3.9% at 120V, 6.4% at 277V

**200W:** 7.4% at 120V, 4.9% at 277V

**100W:** 4.9% at 480V

**150W:** 4.1% at 480V

**200W:** 8.2% at 480V

#### Power Factor:

**30W:** 99.5% at 120V, 91.6% at 277V

**60W:** 99.7% at 120V, 91.2% at 277V

**100W:** 99.9% at 120V, 96.7% at 277V

**150W:** 99.8% at 120V, 94.3% at 277V

**200W:** 99.6% at 120V, 95% at 277V

**100W:** 94.6% at 480V

**150W:** 97.1% at 480V

**200W:** 92.3% at 480V

Note: All values are typical (tolerance +/- 10%)

### PERFORMANCE

#### Lifespan

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

### OTHER

#### Warranty

The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at [rablighting.com/warranty](http://rablighting.com/warranty)

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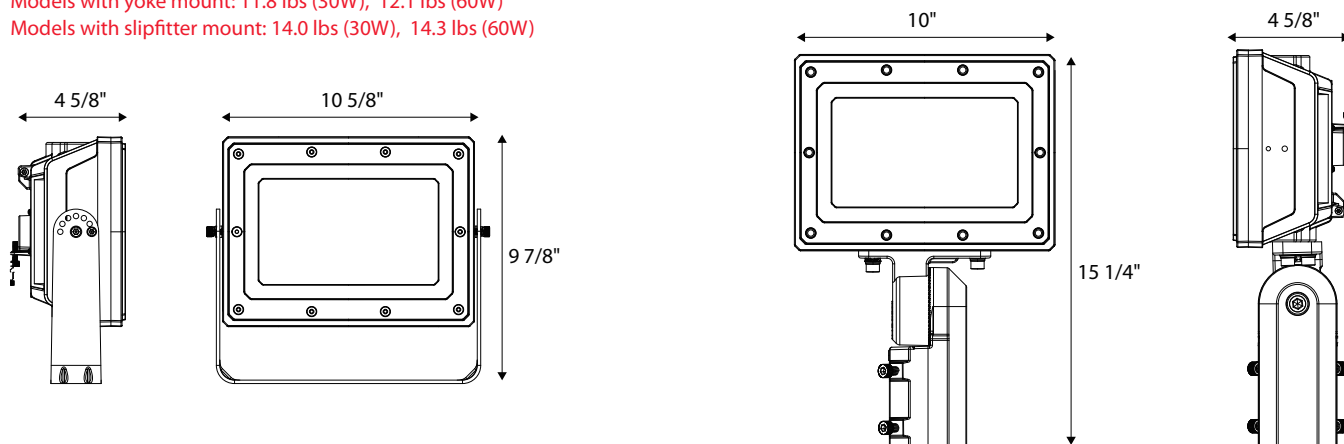
## DIMENSIONS (CONTINUED)

### HAZFFLED30-60W

#### Weight:

Models with yoke mount: 11.8 lbs (30W), 12.1 lbs (60W)

Models with slipfitter mount: 14.0 lbs (30W), 14.3 lbs (60W)

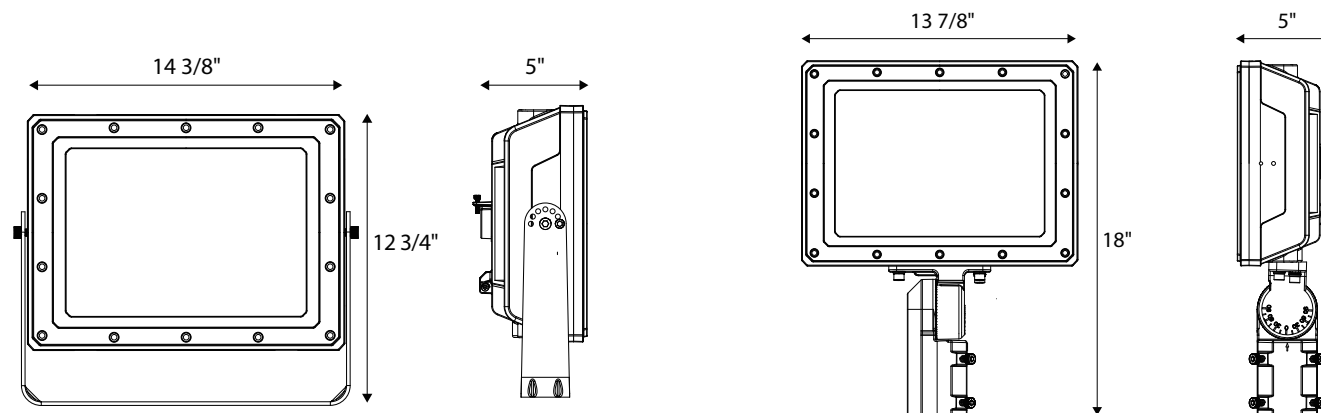


### HAZFFLED100-150W

#### Weight:

Models with yoke mount: 21.6 lbs (100W), 22 lbs (150W)

Models with slipfitter mount: 22.0 lbs (100W), 22.4 lbs (150W)

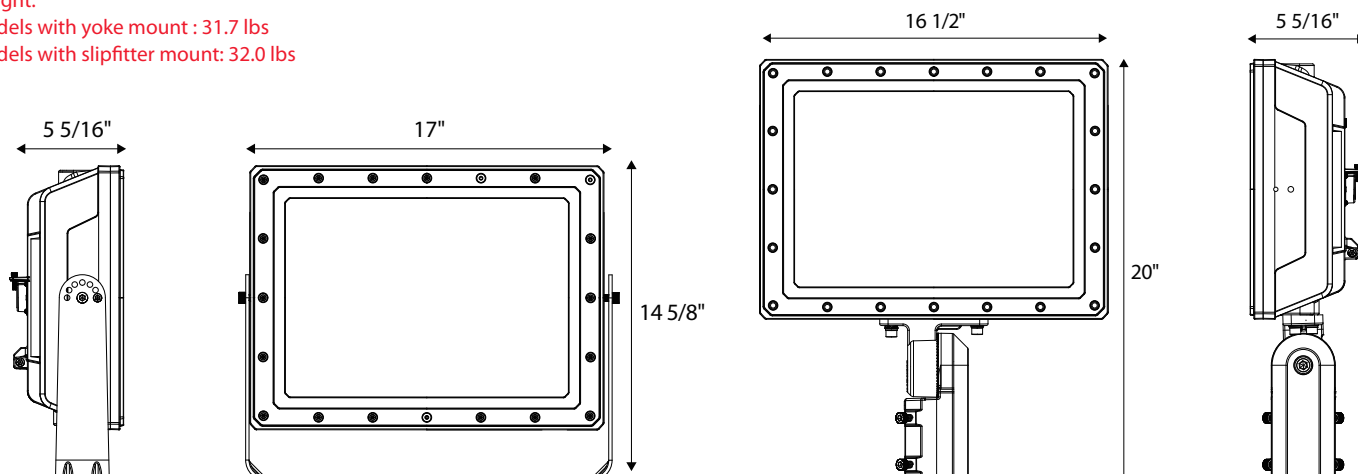


### HAZFFLED 200W

#### Weight:

Models with yoke mount : 31.7 lbs








Models with slipfitter mount: 32.0 lbs



# HAZFFLED Hazardous Locations Floodlights



## ACCESSORIES

IMAGE	SKU#	UPC	DESCRIPTION
	GDHAZFFS	192552032414	WIRE GUARD HAZ FLOOD SMALL FOR 30W & 60W
	GDHAZFFM	192552032421	WIRE GUARD HAZ FLOOD MEDIUM FOR 100W & 150W
	GDHAZFFL	192552032438	WIRE GUARD HAZ FLOOD LARGE FOR 200W
	HHAZFFS	192552032445	HOUSING HOOD HAZ FLOOD SMALL FOR 30W & 60W
	HHAZFFM	192552032452	HOUSING HOOD HAZ FLOOD MEDIUM FOR 100W & 150W
	HHAZFFL	192552032469	HOUSING HOOD HAZ FLOOD LARGE FOR 200W
	HAZFF-ADJ-ARM	192552032476	HAZ FLOOD ADJUSTABLE ARM FOR HAZFFLED FIXTURES

## PERFORMANCE

### FIXTURE WITHOUT THE HOOD

HAZFFLED30	5000K
Wattage	30W
Input Watts	29.8W
Lumens	4,798
Efficacy	161
CRI	70
Voltage Ratings	120-277V

HAZFFLED60	5000K
Wattage	60W
Input Watts	61.4W
Lumens	9,540
Efficacy	155.4
CRI	70
Voltage Ratings	120-277V

HAZFFLED100	5000K
Wattage	100W
Input Watts	102.6W
Lumens	16,722
Efficacy	163
CRI	70
Voltage Ratings	120-277V

HAZFFLED150	5000K
Wattage	150W
Input Watts	147.9W
Lumens	23,833
Efficacy	161.1
CRI	71
Voltage Ratings	120-277V

HAZFFLED200	5000K
Wattage	200W
Input Watts	205.3W
Lumens	32,979
Efficacy	160.6
CRI	71
Voltage Ratings	120-277V

HAZFFLED100/480	5000K
Wattage	100W
Input Watts	95.4W
Lumens	16,205
Efficacy	169.6
CRI	73
Voltage Ratings	480V

HAZFFLED150/480	5000K
Wattage	150W
Input Watts	148.8W
Lumens	24,590
Efficacy	160.6
CRI	71
Voltage Ratings	480V

HAZFFLED200/480	5000K
Wattage	200W
Input Watts	187.3W
Lumens	32,150
Efficacy	171.6
CRI	73
Voltage Ratings	480V

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## PERFORMANCE (CONTINUED)

### FIXTURE WITH THE HOOD

HAZFFLED30	5000K
Wattage	30W
Input Watts	29.8W
Lumens	4,158
Efficacy	139.5
CRI	70
Voltage Ratings	120-277V

HAZFFLED60	5000K
Wattage	60W
Input Watts	61.2W
Lumens	8,183
Efficacy	133.7
CRI	71
Voltage Ratings	120-277V

HAZFFLED100	5000K
Wattage	100W
Input Watts	102.5W
Lumens	14,882
Efficacy	145.2
CRI	70
Voltage Ratings	120-277V

HAZFFLED150	5000K
Wattage	150W
Input Watts	147.2W
Lumens	21,009
Efficacy	142.7
CRI	71
Voltage Ratings	120-277V

HAZFFLED200	5000K
Wattage	200W
Input Watts	205.6W
Lumens	29,972
Efficacy	145.8
CRI	71
Voltage Ratings	120-277V

HAZFFLED100/480	5000K
Wattage	100W
Input Watts	95.4W
Lumens	14,404
Efficacy	151.0
CRI	72
Voltage Ratings	480V

HAZFFLED150/480	5000K
Wattage	150W
Input Watts	148.5W
Lumens	21,771
Efficacy	146.6
CRI	71
Voltage Ratings	480V

HAZFFLED200/480	5000K
Wattage	200W
Input Watts	187.3W
Lumens	28,930
Efficacy	154.5
CRI	73
Voltage Ratings	480V

## ORDERING MATRIX

### HAZFFLED

Family	Wattage		Mounting		Color Temp		NEMA Type		Finish		Voltage	
HAZFFLED												
	30	30W	BLANK	Yoke	BLANK	5000K	BLANK	7H X 6V	BLANK	Gray	BLANK	120-277V, 0-10V dimming
	60	60W	SF	Slipfitter								
	100	100W									/480 *	480V, 0-10V dimming
	150	150W										
	200	200W										

\* 480V option only available on 100W, 150W, and 200W models