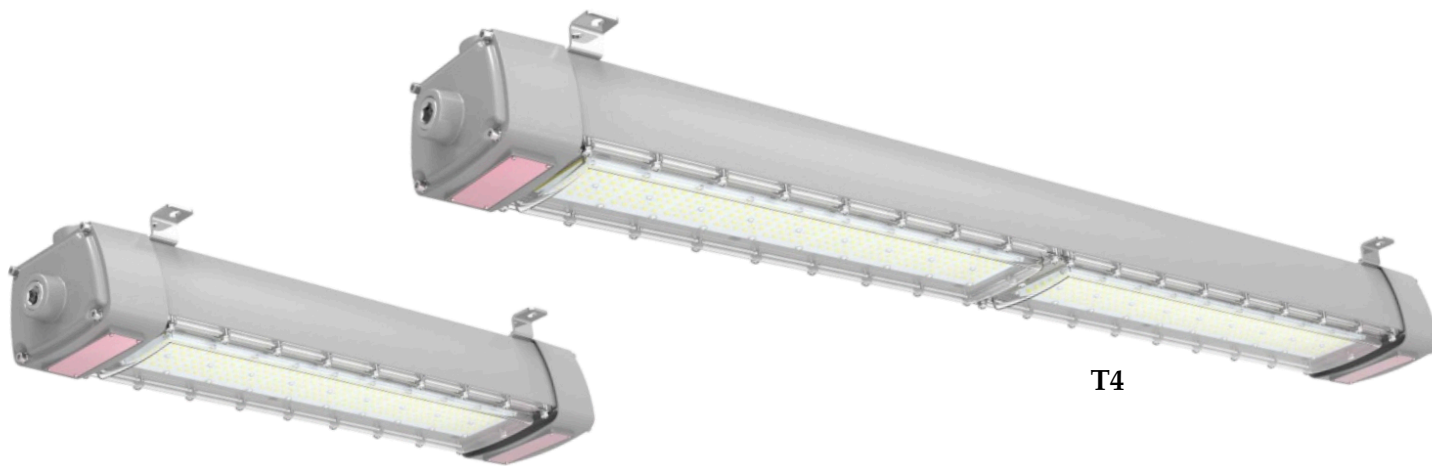




**BPO LIGHTING**  
*Hazardous Area Lighting*

# HLL T



T2

T4

## Class 1 Division 2

### Key Features

- |                  |  |
|------------------|--|
| <b>FEATURES:</b> | <b>Tunable</b> Linear (Rugged)<br>High lm/W<br>3 Mounting Styles<br>Adjustable CCT |
| <b>OPTIONS:</b>  | 2' & 4' Body Lengths<br>High Voltage<br>Emergency Back-Up                          |

# Compliance

UL 844 Hazardous Locations  
Class I Division 2 Groups A, B, C, D  
IP66  
IK10  
500 Hours Salt Spray

# Applications

## **Oil and Gas**

Petroleum production and refining  
Petroleum loading, storage, transportation and retail  
Confined spaces with vapor accumulation  
LNG and LPG handling  
Oil tanker and shipping vessels  
Fuel system testing facilities

## **Power Plants**

Coal-fired power plants, including coal handling and storage areas  
Gas-fired power plants with fuel storage  
Nuclear power facilities in hazardous auxiliary areas  
Biomass or waste-to-energy plants with combustible dust risks

## **Industrial**

Industrials Storage Facility  
Paper mills, Sawmills and lumber yards  
Loading Docks Platforms  
Manufacturing plants for heavy industrial goods  
Warehouses handling flammable materials

## **Waste Treatment**

Wastewater Treatment Plants  
Pumping Stations  
Solid waste processing and incineration facilities  
Sewage treatment with methane gas risks  
Hazardous waste Recycling Centers

## **Mining**

Operations and service  
Underground mining tunnels with gas accumulation

## **Chemical Industry**

Chemical production, processing facilities and storage  
Solvent handling and mixing areas  
Chemical research labs with flammable substances

## **Ocean, marine and aerospace**

Ocean platform operation facilities and structure  
Marine & Saltwater Environments  
Aerospace clean room and production  
Ocean vessel operations  
Shipyards and dry docks  
Aircraft hangars with fuel vapors

## **Metal treatment**

Paint facilities  
Steel and aluminum factories  
Metal smelting, foundry and fabrication  
Welding and cutting areas with gas risks

## **Military and Defense**

Ammunition storage and handling  
Fuel depots and refueling stations  
Explosives manufacturing  
Vehicle maintenance bays in hazardous zones

## **Food alcohol and Agriculture industry**

Flour and fine particle production and storage  
Food and distilling production  
Grain storage elevators and silos  
Breweries and fermentation tanks  
Feed mills with dust risks  
Fertilizer production and storage

## **Pharmaceutical Industry**

Drug manufacturing and solvent handling  
Clean rooms with volatile compounds  
Pill coating and drying areas  
Research and development labs

## **Other high humidity, high dust, high temperature and vapor locations**

# Specifications

Wattage	60W [60W/40W/ 30W]	60W [60W/50W/ 40W]	100W [100W/80W/ 60W]	120W [120W/100W/ 80W]
Body	FLGB2		FLGB4	

## OPTICAL

Lumen Output	5250 lm-10500 lm	10500 lm-17500 lm	14000 lm-21000 lm
Lumens Per Watt	175 lm/W		
Color Temperature: CCT	4000K/5000K/6000K Adjustable		
CRI (Color Rendering Index)	>70		
Beam Angle	120°		
Dimming	0-10V dimming		

## ENVIRONMENTAL

Ambient Operating Temperature	T6: -40°C to +40°C (-40°F to 104°F) , T5: -40°C to +50°C (-40°F to 122°F), T4:-40°C to +55°C (-40°F to +131°F) Emergency; 0°C to +55°C (-32°F to 131°F)
Temperature Code	T6: (+40°C), T5: (+50°C), T4: (+55°C)

## MECHANICAL

Housing Material	Aluminum
Lens Diffuser	Polycarbonate (PC)
Finish	Corrosion Resistant
Fixture Color	Grey
Mounting	Ceiling, Pole, Guide Rail
Cable Entry	3/4" NPT
Warranty	5-Year Standard Warranty

## ELECTRICAL

Lifespan	L70> 71,000 Operational Hours @ 25°C
Input Voltage	100-277VAC, 100-347VAC, 200-480VAC
Input Frequency	50/60Hz
Power Factor	> 0.95

## EMERGENCY

Emergency Time	1.5 Hour Optional
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# Ordering Logic

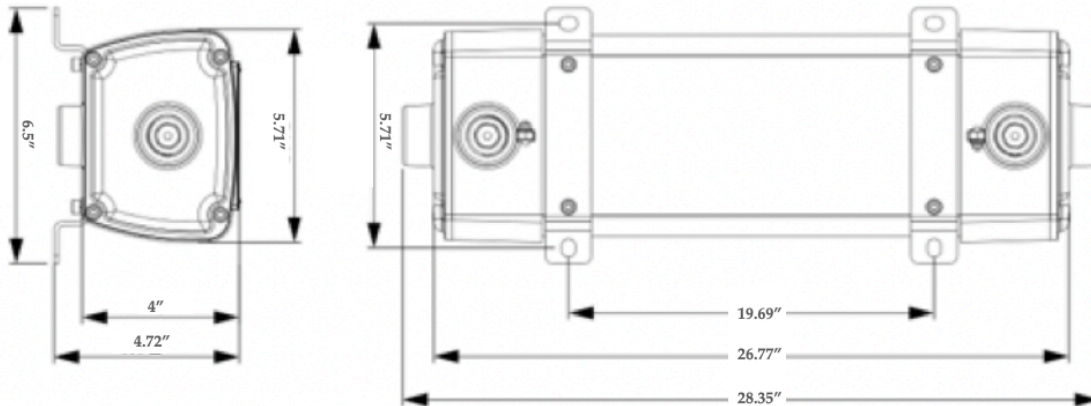
ORDER EXAMPLE: HLL T EX FLG2 60(a)W AC1 D 5K 120

(1) Product	(2) Product Category	(3) Length	(4) Wattage	(5) Voltage
HLL T	EX - Explosion Proof	FLG2 - 2' FLG4 - 4'	60(a)W (60W/40W/30W) 60(b)W (60W/50W/40W) 100W (100W/80W/60W) 120W (120W/100W/80W)	AC1 - 100-277V (S) AC2 - 100-347V AC3 - 277-480V
(6) Dimming	(7) Kelvin	(8) Beam Angle	(9) Option	
D - Dimmable N - Non-Dimmable	4K - 4000 K 5K - 5000 K 6K - 6000 K	120 - 120° (S)	EM - Emergency Back Up Blank - Without Emergency Function	

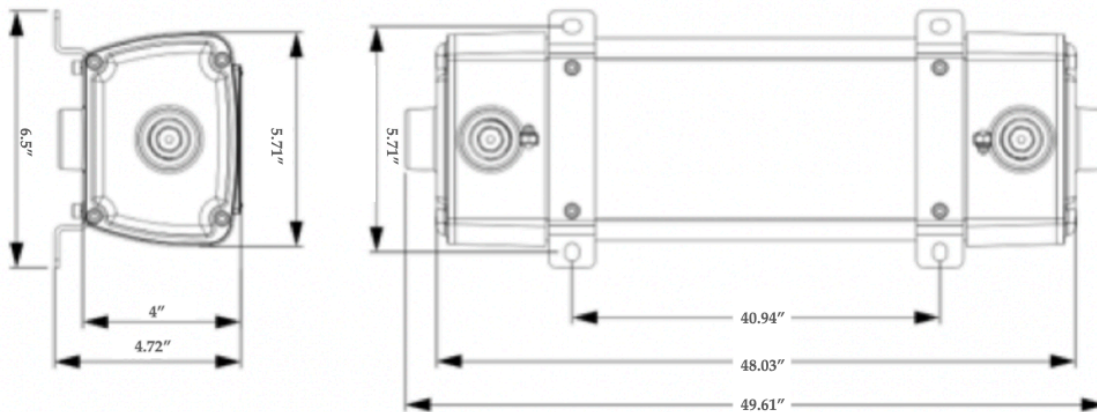
(S) Standard

# Product Dimensions

T2



T4



# Packaging Information

	FLGB2	FLGB4
Fixture Dimensions	See Product Dimensions Drawing	

# Mounting Methods

## Option 1: Ceiling Mounting



## Option 2: Pole Mounting

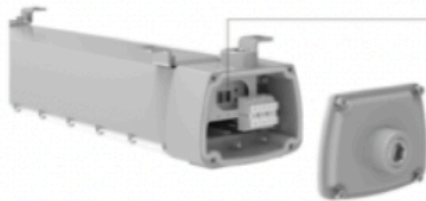


## Option 3: Guide Rail Mounting



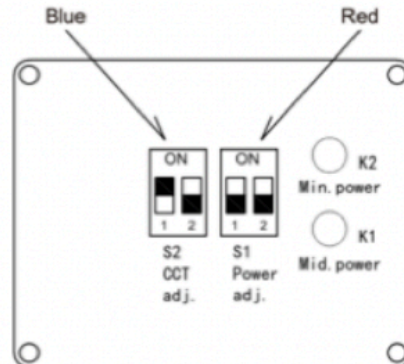


# Power and CCT Adjuster



→ Power and CCT Adjuster

- (1)Power Adjuster:  
Connect to the 0/1-10V dimming port of the LED river.
- (2)CCT Adjuster:  
Connect the output voltage of the LED driver: DC20-60V  
LED driver maximum no-load output voltage: 68V max
- The three-gear power setting principle is as follows:  
The first gear is 100%, the second gear is 70-80%, and the third gear is 50-60%. The minimum setting cannot be lower than 50%.



## Operating Instructions

### S1 DIP switch - Red (S1 Power adj. )

The power adjustment dial switch can be set to three power levels, and the factory default setting can be defined according to order requirements.

- 1.First gear (Max. power), 100% full power.  
Operation instructions: Dial 1 and 2 are both in the OFF position;



Example: 100W

- 2.Second gear (Mid. power), 70%-80% power, can be set according to the required power.

Operation instructions: Dial 1 is in the ON position, Dial 2 is in the OFF position;



Example: 80W

- 3.Third gear (Min. power), 50%-60% power, can be set according to the required power.

Operation instructions: Dial 1 is in the OFF position, Dial 2 is in the ON position;



Example: 60W

### S2 DIP switch - Blue (S2 CCT adj. )

The color temperature dial switch can be set to three levels of color temperature, and the factory default setting can be defined according to order requirements.

- 1.First gear, the cold white temperature gear, for example, 6000K.  
Operation instructions: Dial 1 and 2 are both in the OFF position;



6000K

- 2.Second gear, the neutral temperature gear, for example, 5000K.

Operation instructions: Dial 1 is in the ON position, and Dial 2 is in the OFF position;



5000K

- 3.Third gear, the warm white temperature gear, for example, 4000K.

Operation instructions: Dial 1 and 2 are both in the ON position;



4000K