



# INS Series

Top view



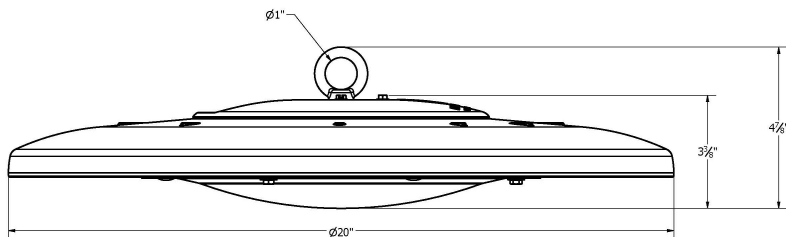
Bottom view



## Description

The **INS (Silver) Series** is the new Low Profile, Class II Low Forward Voltage, Low Energy (LVLE) consuming LED in the LEI industrial line. The **INS Series** base unit weighs in at 18 pounds as an economical, reliable LED alternative to 250-400 watt metal halide fixtures. While other UFO designs are mainly Class I, high forward voltage, this provides a safer, low forward voltage alternative, that is quality made and non-ferrous. In addition, only the **INS Series** provides light redundancy for your lighting needs in the 20,000 to 24,000 lumen units, utilizing two drivers, versus most, that utilize only one driver. Exceeding the most stringent DLC premium standard, the INS Series provides you with a minimum of 140 Lumens per watt punch and is a "Plug and Play" concept out of the box, with a 3 ft, 18/3 pigtail. The Mounting Loop is also included and installed with the unit. The INS Series is the solution for your general lighting applications.

## Dimensions



### NOTES:

1. Dimensions shown are in inches.
2. All dimensions are approximate.
3. LEI reserves the right to change the design at any time without notice.
4. Base unit weights approximately 18 pounds without packaging.

Date	Catalog #
Type	Project
Prepared by	Comments

## Features and Specifications

### ENCLOSURE

Robust aluminum main housing and heat sinking aluminum reflector is designed for superior thermal management. Exterior aluminum housing is protected by a Silver Powder coat.

### LENS

Clear acrylic in a dome design for maximum strength and improved light distribution.

### ELECTRICAL

Universal voltage (120V-277V) drivers standard. Optional 0-10V dimming and motion sensor configurations are available. Custom metal clad boards populated with Samsung 5000K CCT LED chips. Available in 80 or 70 CRI. **Fixtures come standard with 3' pigtail.**

### MOUNTING

**Center Loop is provided standard** for mounting, unless specified Optional SS Hook. Optional attachment loop also available for use with the stainless steel safety cable.

### CERTIFICATIONS

- ETL listed UL 1598

## Warranty

- 3-year or 5-year limited warranty. (See LEI's LED Warranty for complete details.)

## Ordering Information

### Example Catalog Number – INS3-24L-5K8-U-C-P3

<b>INS3</b>	-	<b>24L</b>	-	<b>5K8</b>	-	<b>U</b>	-	<b>C</b>	-	<b>P3</b>	-	
A		B		C		D		E		F		G
Series		Lumen Package		CCT and CRI		Voltage		Lens		Optional Power End		Optional Controls

### Catalog Logic:

#### A. Series

INS3 = Industrial Series (Non-DLC)  
INS5 = Industrial Series ( 5 year)

#### B. Lumen Package

12L = 12,000  
16L = 16,000  
20L = 20,000  
24L = 24,000

#### C. CCT and CRI

5K8 = 5000K, 80 CRI (standard)  
5K7 = 5000K, 70 CRI

#### D. Voltage

U = (120V-277V)

#### E. Lens

C = Clear Acrylic - Domed  
F = Optional Low Glare Acrylic Dome.

#### F. Optional Power End

(P3 standard on all units)

P3 = 3', 3 wire 18/3 black pigtail  
P4 = 4', 3 wire, 18/3 black pigtail  
PX = X', 3 wire, 18/3 black pigtail  
(X= Specify length)  
R3BT = Mini-receptacle, 3 wire male

#### G. Optional Controls or Options

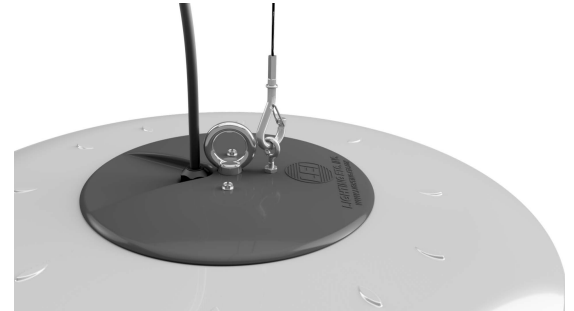
MOS = Microwave Occupancy Sensor  
DMS = Dimming Occupancy Sensor  
SCL = Safety Cable Loop installed.  
PM = Pendant Mount  
HKS = SS Hook (Shipped loose)

EBP = External Battery Pack installed.  
(Non-switching only)  
(120-277 only)

## Replacement Parts & Accessories

SC5 Stainless Steel Safety Cable – 5'  
SC10 Stainless Steel Safety Cable – 10'  
INS-LKIT Lens Assembly – Dome, Clear, Acrylic

## Mounting Options



**Optional Safety Cable**  
(Shown with Optional attachment  
SCL loop)



**Optional Hook - HKS**

## Performance Data

Lumen Package	Lens (Acrylic)	CCT	Actual Lumens	System Watts	Lumens per Watt	CRI
24L	Clear-Dome	5000K 80 CRI	<b>24,140</b>	<b>160</b>	<b>151</b>	<b>83</b>
20L			<i>20,519</i>	<i>134</i>	<i>152</i>	<i>83</i>
16L			<b>17,290</b>	<b>116</b>	<b>149</b>	<b>82</b>
12L			<i>12,103</i>	<i>80</i>	<i>151</i>	<i>82</i>

*Numbers in italics are calculated using LED manufacturers' data.*

NORMAL OPERATING RANGE:

(120-277) = -20C UP TO 50C / Warranted to 55C

Consult factory for all available options & configurations.



**LIGHTING**  
ETC. INCORPORATED