

# WELCOME

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# WHAT IS INDUCTION LIGHTING?

Presenter: Greg Murphy

To learn more:

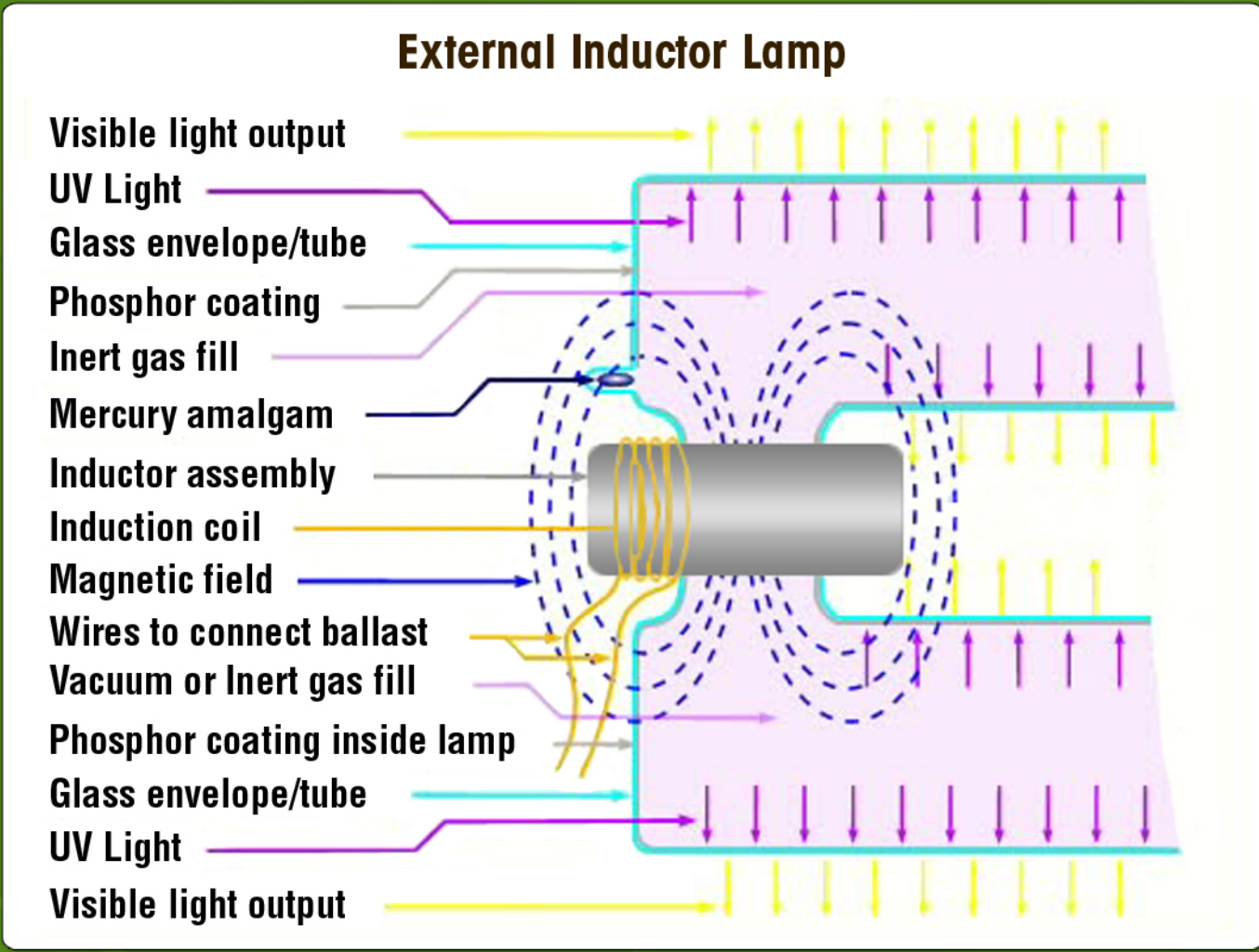
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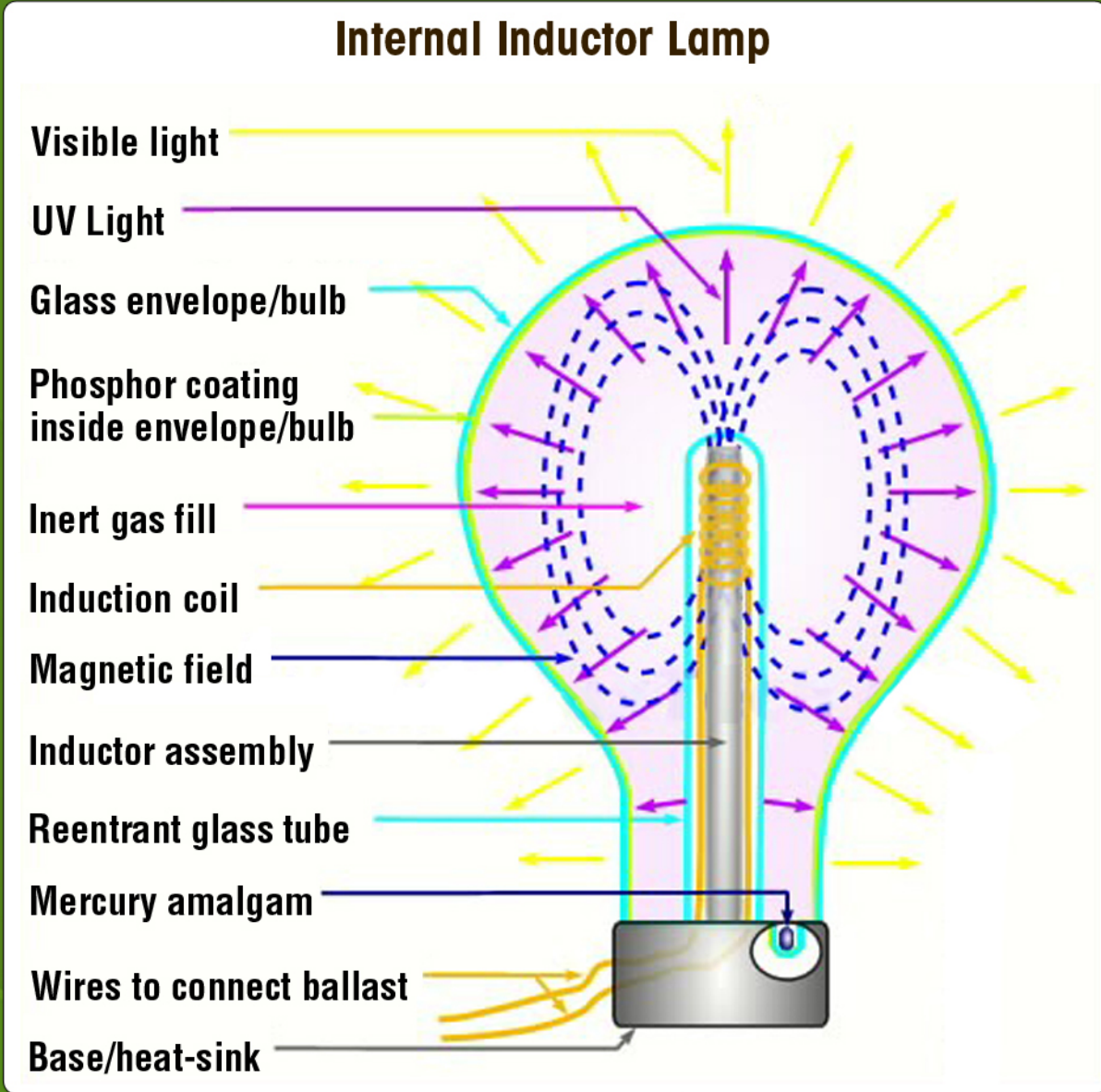
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# How Does Induction Work?

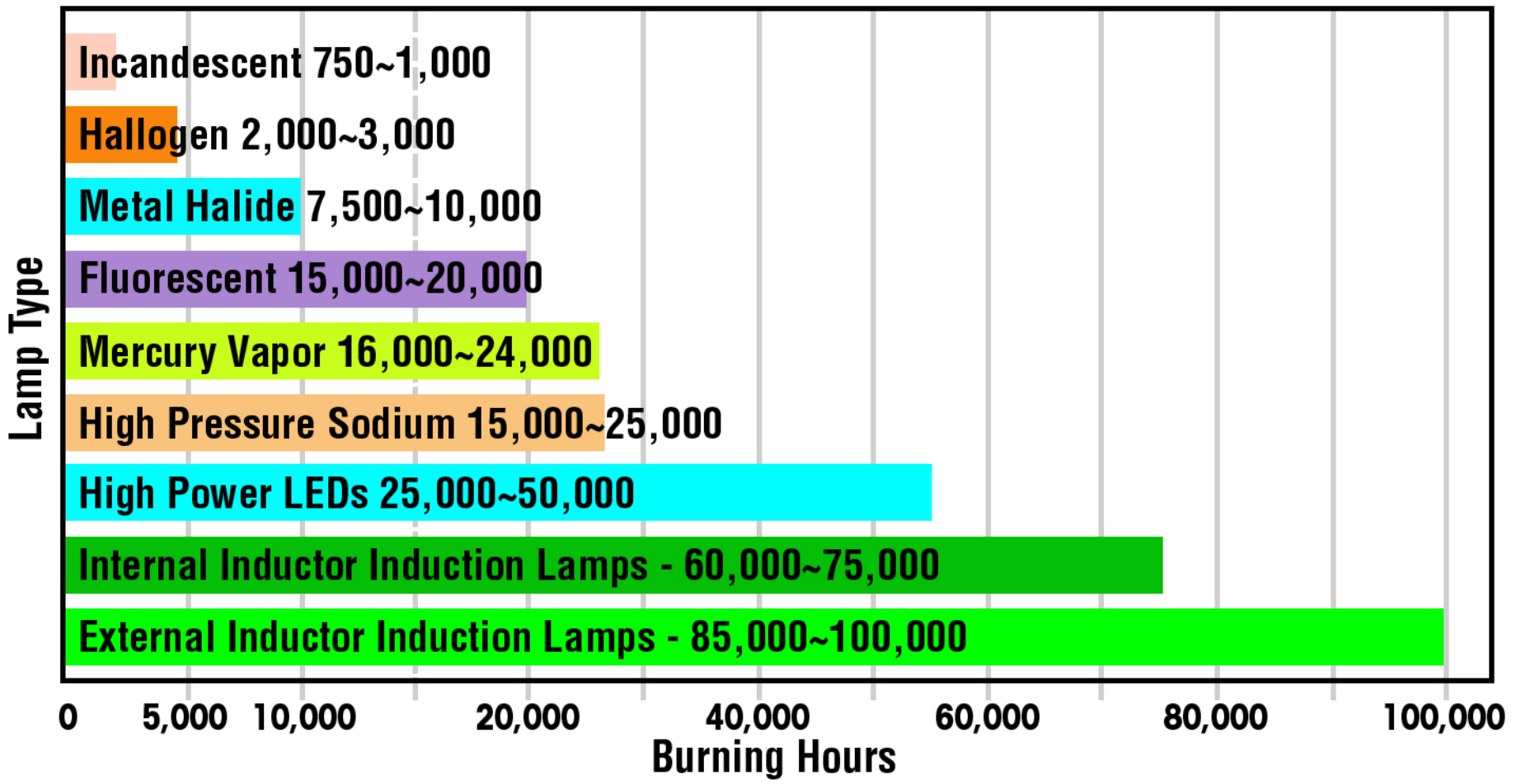


# How Does Induction Work?



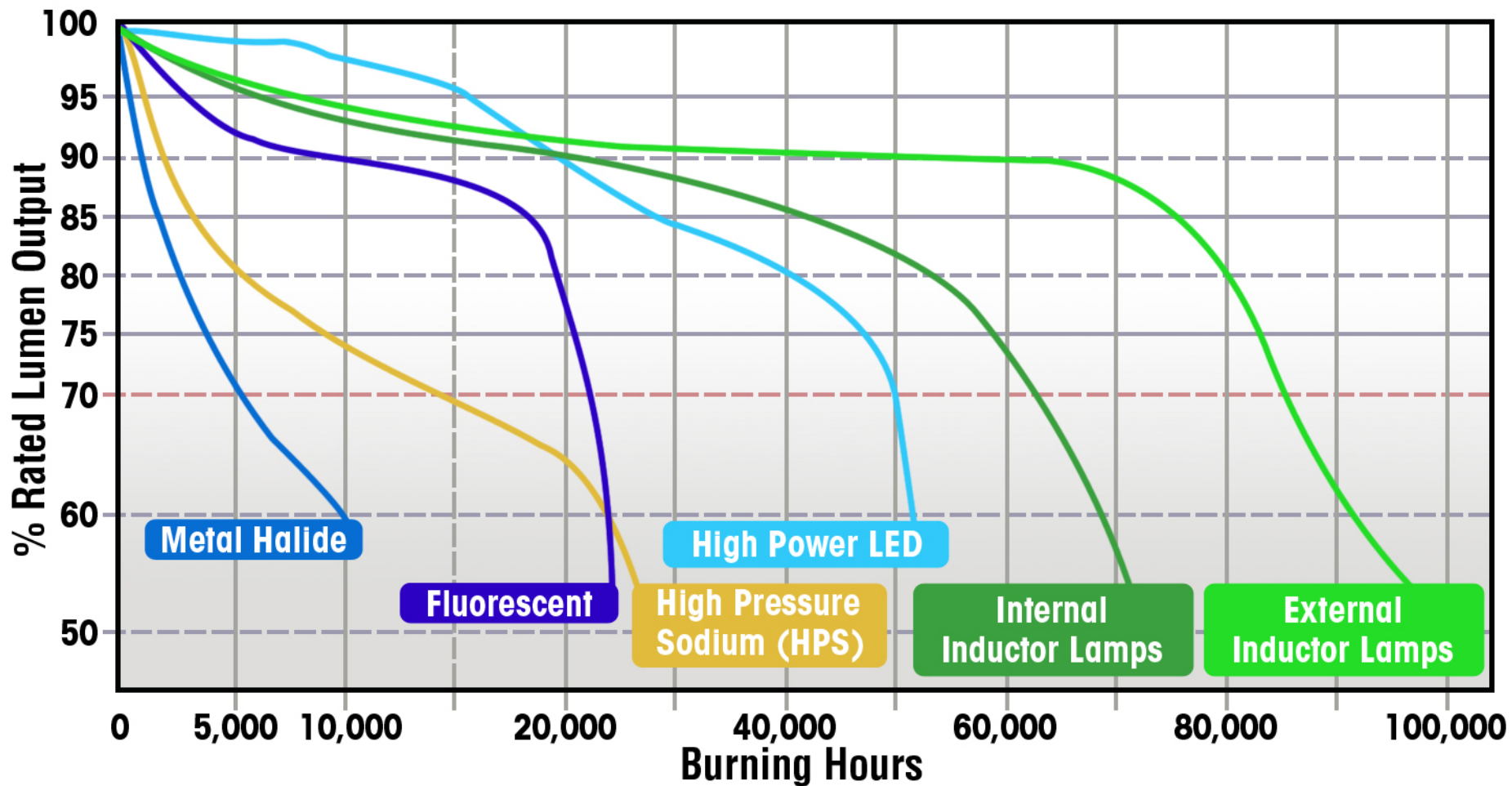
# How Does Induction Work?

Typical Lamp Lifespan



# Induction vs LED

## Lumen Maintenance Curves For Various Commercial Light Types



# ROI vs Metal Halide

Gather these facts to calculate the return on investment of a lighting project. To illustrate payback here, a parking garage of 470 canopy lighting fixtures in Chicago, IL, will be used. Total savings are calculated by adding the energy savings and maintenance savings demonstrating green that makes "cents"!

## Sample Garage

### Energy Savings - Part A

**A:** 470 MH lamps (175 watt)

**B:** Current electrical draw is 208 watts per fixture. New induction fixture draws 80 watts.

$208 - 80 = 128$  watts savings per fixture

**C:** Blended utility rate = \$0.098/kwh (Take a monthly bill and divide the total cost of energy, demand, taxes, etc., by the month's kwh usage. This could be as low as \$0.05 to as high as \$0.18).

**D:** Hours of operation = 24 hours. Most parking garages are 24-hour burn.

$((A \times B) / 1,000) \times C \times D = ?$

$((470 \times 128) / 1000) \times C \times D = ?$

$60.16 \times 0.098 \times 8,760 = \$51,646$  in energy savings per year.



# ROI vs Metal Halide

Gather these facts to calculate the return on investment of a lighting project. To illustrate payback here, a parking garage of 470 canopy lighting fixtures in Chicago, IL, will be used. Total savings are calculated by adding the energy savings and maintenance savings demonstrating green that makes "cents"!

## Sample Garage

### Maintenance Savings - Part B

**E:** \$35 cost per lamp change (parts and labor)

**F:** Number of lamp changes per year (assume 1/3 of lamps for MH) =  $470 \times 0.33 = 157$

$E \times F = ?$

$35 \times 157 = \mathbf{\$5,495}$  maintenance savings per year.

### Total Savings - Part A (Energy Savings) + Part B (Maintenance Savings)

$\$51,646 + \$5,495 = \mathbf{\$57,141}$  total savings per year

### Payback in Years

**G:** Cost of fixture (equipment, tax, installation) = \$250 estimate for induction.

**H:** 470 current fixtures

$(G \times H) / \text{Total Savings} = \text{Years to payback project.}$

$(\$250 \times 470) / \$57,141 = \mathbf{2.05 \text{ years.}}$



# Induction Surface Mount Luminaires

## Induction Surface Mount Luminaires

Surface mounted Parking Garage/canopy fixture is constructed with a shatter and UV resistant polycarbonate lens.

Fixture can be mounted to electrical boxes or mounted directly to surfaces.

### FEATURES:

- 40W replaces up to 175 Watt Metal Halide
- 80W replaces up to 250 Watt Metal Halide
- Lumens: 40W: 2800 at 5000K  
80W: 6400 at 5000K
- 100,000 Hour Life
- Self-contained generator
- Universal 120V through 277V
- Maintenance free
- Dusk To Dawn and occupancy sensor available
- Can be mounted on electrical boxes or directly to surfaces
- 5 Year Limited Warranty
- IP43
- Does not attract insects

### CONSTRUCTION:

- Diecast aluminum body
- Sealed for dirt and bugs
- High intensity, high temperature and UV resistant PC cover

Induction light source: Tubular shape

PROJECT NAME
CATALOG NUMBER
NOTES
FIXTURE TYPE



Luminaire Ordering Information:

WATTS	ORDER CODE	MODEL NUMBER	LUMENS	LIFE (Hrs)	DIMENSIONS (L"xH")	K
40	71304	MLSM40IND50	2800	100,000	15 x 8.0	5000
80	71305	MLSM80IND50	6400	100,000	15 x 8.0	5000

Lighting layouts and spacing criteria available upon request



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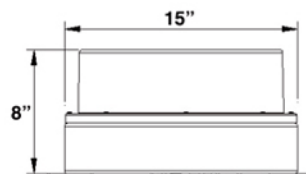
## INDUCTION SURFACE MOUNT LUMINARIES - 40 & 80W

### SPECIFICATIONS:

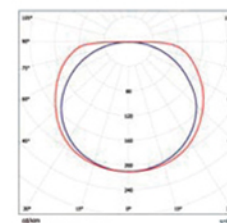
Item	Specification	MLSM40IND50	MLSM80IND50
<b>General Performance</b>	Spacing Criteria	Available upon request	Available upon request
	Color Temperature	5000K	5000K
	Lumens	2800	6400
	Efficacy	70 lumen/watt	80 lumen/watt
	Life	100,000 hours	100,000 hours
<b>Electrical</b>	Power Factor	> 90%	> 90%
	Input Voltage	120V-277V 50/60 Hz	120V-277V 50/60 Hz
	Power Consumption	40 Watts	80 Watts
<b>Physical</b>	Dimensions	15" x 8.0"	15" x 8.0"
	Housing	Diecast Aluminum	Diecast Aluminum
	Lens	Shock proof polycarbonate	Shock proof polycarbonate
	Mounting	Fits electrical boxes or mounts directly to surfaces	Fits electrical boxes or mounts directly to surfaces
	Operating Temperature	-13°F to 122°F	-13°F to 122°F
<b>Certification</b>	Certification	UL	UL
	Environment	Indoor / Outdoor	Indoor / Outdoor

Lighting layouts and spacing criteria available upon request

### DIMENSIONS:



### PHOTOMETRICS:



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# Induction Flood Light Luminaire

## Induction Flood Light Luminaire

150W Induction Flood Light Luminaire fixture is constructed with a diecast aluminum housing and tempered glass lens.

### FEATURES:

- 150W replaces up to 320 Watt Metal Halide
- Lumens: 150W: 12,000 at 5000K
- 100,000 Hour Life
- Self-contained generator
- Universal 120V through 277V
- Maintenance free
- Dusk To Dawn and occupancy sensor available
- 5 Year Limited Warranty
- IP65
- Does not attract insects

PROJECT NAME
CATALOG NUMBER
NOTES
FIXTURE TYPE



### CONSTRUCTION:

- Die-casting aluminum alloy fixture body, corrosion resistant and durable.
- High quality imported mirror surface aluminum reflector with tempered glass provides excellent reflection effect.
- High quality and high temperature resistant silicon rubber air-tight rings.
- Separated installation of ballast and light source can effectively extend the service life of ballast and light source.

Induction light source: 150W Tubular Induction

Luminaire Ordering Information:

WATTS	ORDER CODE	MODEL NUMBER	LUMENS	SCOTOPIC LUMENS	LIFE (Hrs)	DIMENSIONS (L"xW"xH")	K
150	71303	MLFL150IND50	12,000	23,520	100,000	24 x 15 x 8	5000

Lighting layouts and spacing criteria available upon request



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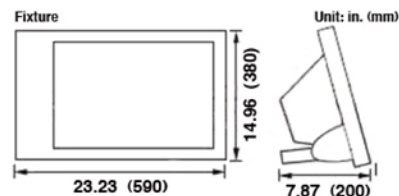
## INDUCTION FLOOD LIGHT LUMINAIRE

### SPECIFICATIONS:

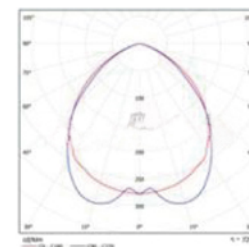
Item	Specification	MLFL150IND50
General Performance	Spacing Criteria	Available upon request
	Color Temperature	5000K
	Lumens	12,000
	Scotopic Lumens	23,520
	Efficacy	80 lumen/watt
Life		100,000 hours
Electrical	Power Factor	> 90%
	Input Voltage	120V-277V 50/60 Hz
	Power Consumption	150 Watts
Physical	Dimensions	24" x 15" x 8"
	Housing	Diecast Aluminum
	Lens	Tempered Glass
	Operating Temperature	-13°F to 122°F
Certification	Certification	UL
	Environment	Indoor / Outdoor

Lighting layouts and spacing criteria available upon request

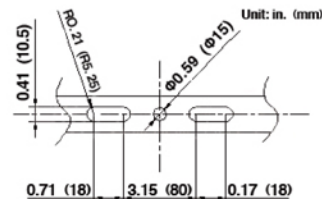
### DIMENSIONS:



### PHOTOMETRICS:



### MOUNTING BRACKET:



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## **QUESTIONS & ANSWERS:**

Thank you everyone for your attention.

This webinar session will be left open for the next 10 minutes to allow time for questions. We will answer as many questions as we have time for right now, but ALL questions will be answered via e-mail within the next 24 hours.

Thanks again for attending, and we hope to speak to you again, soon!

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