

# Industrial and Commercial INDUCTION LIGHTING



THINK HIGH/LOW BAY INDUCTION LIGHTS  
THINK STREET INDUCTION LIGHTS  
THINK TUNNEL INDUCTION LIGHTS  
THINK GARAGE INDUCTION LIGHTS  
THINK FREEZER INDUCTION LIGHTS  
THINK FLOOD INDUCTION LIGHTS  
THINK WALLPACK INDUCTION LIGHTS

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inductionlighting

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AdvancedProduct Labs.com

# Industrial and Commercial INDUCTION LIGHTING

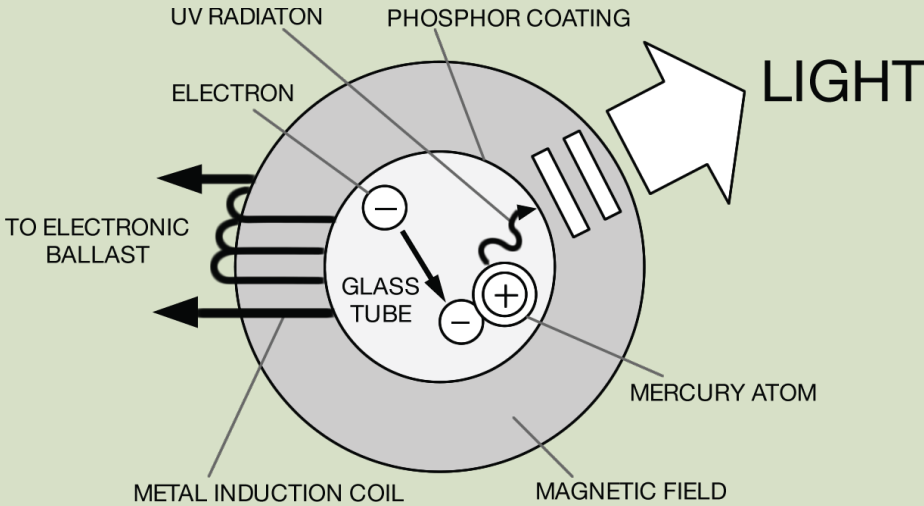
## Technology Breakdown Induction Lamps

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**100 000 hours of life expectancy, 100% Recyclable  
40 to 70% Energy Savings**

The basic technology for induction lamps is not particularly new. Essentially, an induction lamp is an electrodeless fluorescent. Without electrodes, the lamp relies on the fundamental principles of electromagnetic induction and gas discharge to create light.

The elimination of filaments and electrodes results in a lamp of unmatched life. Lasting 100,000 hours, this system can outlast 100 incandescent, five HID, or five typical fluorescent lamp changes.



# Industrial and Commercial INDUCTION LIGHTING

## Technology Breakdown Induction Lamps



**100 000 hours of life expectancy, 100% Recyclable  
40 to 70% Energy Savings**

Based on these well-known principles, light can be generated via a gas discharge through simple magnetism. Electromagnetic transformers, which consist of rings with metal coils, create an electromagnetic field around a glass tube which contains the gas, using a high frequency that is generated by an electronic ballast. The discharge path, induced by the coils, forms a closed loop causing acceleration of free electrons, which collide with mercury atoms and excite the electrons. As the excited electrons from these atoms fall back from this higher energy state to a lower stable level, they emit ultraviolet radiation. The UV radiation created is converted to visible light as it passes through a phosphor coating on the surface of the tube. The unusual shape of an induction lamp maximizes the efficiency of the fields that are generated.

Although it is not breakthrough science, until recently, it has not been so commercially viable. New developments have broken down the barriers of costs and technological setbacks, such as EMC interference, lumen depreciation, ability to dim and a useful range of available wattages. Today, its obvious benefits make it the clear-cut choice for many lighting applications over traditional light sources.

Whatever aspect of lighting that you prioritize, THINK induction lamps are superior in many categories. Energy efficiency, life, color rendition, lumen depreciation, waste/heat output, glare... the list goes on. THINK lamps are truly the next generation of electric light that is set to displace several existing forms of electric lighting.

# Industrial and Commercial INDUCTION LIGHTING

## Technology Breakdown Induction Lamps



**100 000 hours of life expectancy, 100% Recyclable  
40 to 70% Energy Savings**

### Benefits of Induction Lighting

- A 10 YEAR WARRANTY on a complete system, (3 to 10 times longer than current industry standards)
- 100,000 hour lifespan
- Full financing up to 7 years
- Instant return on investment
- 85+ Lumens per watt / 192 Pupil lumens
- No Maintenance
- NO costly bulb changes every 2-5 years
- High color rendering index (CRI) of 85+
- Instant start, flicker-free (hot or cold starts)
- High generator power factor (PF) up to 0.95 / 95% efficiency
- Low lumen depreciation- less than 30% over lifetime
- Sensor activation add on option, Can be used with photocell or motion sensors!!
- 100% recyclable Product! (NO LIQUID MERCURY IN OUR BULBS)
- Lowest heat output technology available
- Purest light out there, comparable to daylight

# Industrial and Commercial INDUCTION LIGHTING

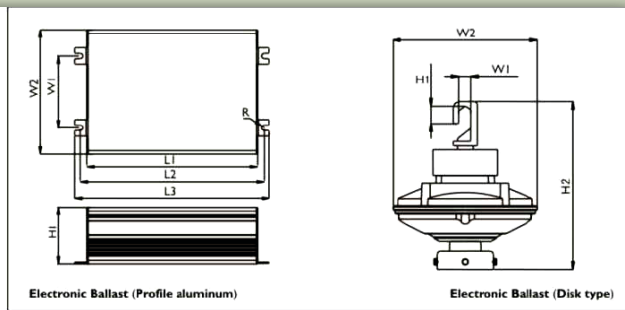
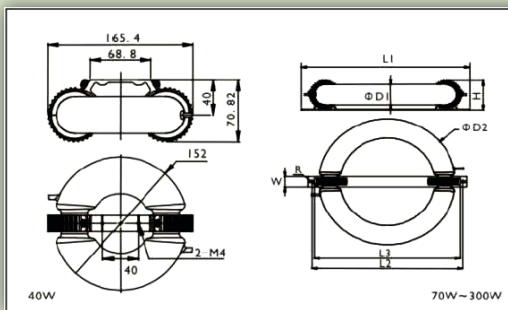
## Electrodeless Induction Lamps

SB Series 40W - 400W

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### Induction Lamp Specifications

Model No.	Wattage (W)	Operating Frequency (KHz)	Rated Initial Luminance (Lm)	Efficacy (Lm/W)	Luminance Maintenance (60Khrs)	CRI	Average Lifetime	THD
AMP-SB40	40	250	2600-2800	65-70	70%	>= 85	100 000 hrs	<10%
AMP-SB70	70		4900-5250	70-75				
AMP-SB80	80		5600-6000	70-75				
AMP-SB100	100		7500-8000	75-80				
AMP-SB120	120		9000-9600	75-80				
AMP-SB150	150		11250-12000	75-80				
AMP-SB200	200		16000-17000	80-85				
AMP-SB250	250		21250-22500	85-90				
AMP-SB300	300		25500-27000	85-90				
AMP-SB400	400		34000-36000	85-90				



### Induction Lamp Dimensions

Wattage	Dim	70W	80W	100W	120W	150W	200W	250W	300W
Bracket Length	L1	9,45 (240)	9,45 (240)	10,63 (270)	11,93 (303)	14,09 (358)	16,50 (419)	17,17 (436)	19,69 (500)
Mounting Holes Spacing	L2	8,86 (225)	8,86 (225)	10,04 (255)	11,34 (288)	13,50 (343)	15,91 (404)	16,38 (416)	18,90 (480)
Couple Wiring Spacing	L3	7,85 (199.5)	7,85 (199.5)	9,42 (239.2)	10,72 (272.2)	12,53 (318.3)	14,93 (379.1)	15,83 (402)	18,35 (466)
Tube Diameter	D1	2,13 (54)	2,13 (54)	2,13 (54)	2,13 (54)	2,13 (54)	2,13 (54)	2,28 (58)	2,28 (58)
Lamp Height	H	3,09 (78.5)	3,09 (78.5)	3,09 (78.5)	3,09 (78.5)	3,09 (78.5)	3,09 (78.5)	3,09 (78.5)	3,09 (78.5)
Bracket Width	W	1,18 (30)	1,18 (30)	1,18 (30)	1,18 (30)	1,18 (30)	1,18 (30)	1,18 (30)	1,57 (40)
Lamp Width	D2	7,09 (180)	7,09 (180)	8,54 (217)	9,80 (249)	11,57 (294)	13,94 (354)	14,84 (377)	17,36 (441)
Mounting Hole Radius	R	0,10 (2.5)	0,10 (2.5)	0,10 (2.5)	0,10 (2.5)	0,10 (2.5)	0,10 (2.5)	0,10 (2.5)	0,10 (2.5)

# Industrial and Commercial INDUCTION LIGHTING



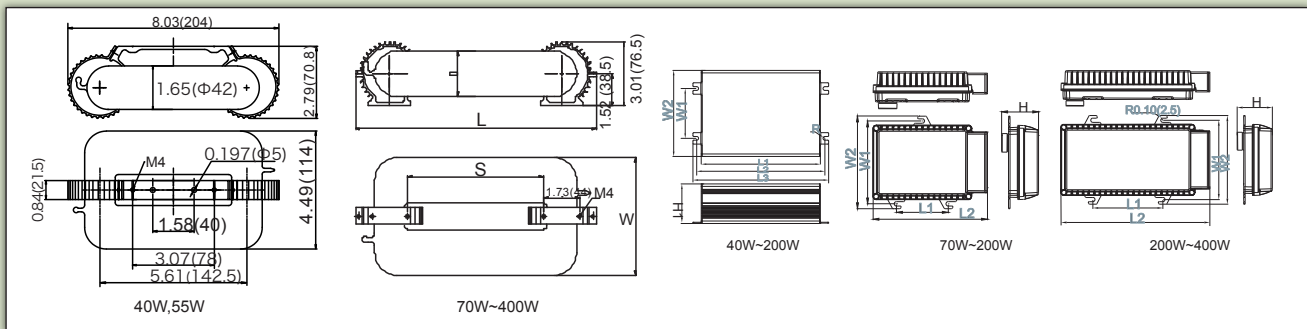
## Electrodeless Induction Lamps

DB Series 40W - 400W

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### Induction Lamp Specifications

Model No.	Wattage (W)	Operating Frequency (KHz)	Rated Initial Luminance (Lm)	Efficacy (Lm/W)	Luminance Maintenance (60Khrs)	CRI	Average Lifetime	THD
AMP-DB40	40	250	2600-2800	65-70	70%	>= 85	100 000 hrs	<10%
AMP-DB70	70		4900-5250	70-75				
AMP-DB80	80		5600-6000	70-75				
AMP-DB100	100		7500-8000	75-80				
AMP-DB120	120		9000-9600	75-80				
AMP-DB150	150		11250-12000	75-80				
AMP-DB200	200		16000-17000	80-85				
AMP-DB250	250		21250-22500	85-90				
AMP-DB300	300		25500-27000	85-90				
AMP-DB400	400		34000-36000	85-90				



### Induction Lamp Dimensions

Wattage	Dim	40W	70W 80W 100W	120W	150W	200W		250W		300W		400W	
		38 diam	54 diam	54 diam	54 diam	54 diam	58 diam	38 diam	58 diam	54 diam	58 diam	54 diam	58 diam
Bracket Length	L1	9.45 (240)	12.91 (328)	14.49 (368)	16.46 (418)	22.76 (578)	24.37 (469)	42.44 (1078)	24.37 (619)	32.60 (828)	28.31 (719)	42.44 (1078)	36.54 (928)
Mounting Holes Spacing	L2	9.06 (230)	12.13 (308)	13.70 (348)	15.67 (398)	21.97 (558)	23.58 (449)	41.65 (1058)	23.58 (599)	31.81 (808)	27.52 (699)	41.65 (1058)	35.75 (908)
Couple Wiring Spacing	L3	8.66 (220)	11.57 (294)	13.15 (334)	15.12 (384)	21.42 (544)	23.03 (435)	41.10 (1044)	23.03 (585)	31.26 (794)	26.97 (685)	41.10 (1044)	35.20 (894)
Tube Diameter	D	1.50 (38)	2.13 (54)	2.13 (54)	2.13 (54)	2.13 (54)	2.28 (58)	1.50 (38)	2.28 (58)	2.13 (54)	2.28 (58)	2.13 (54)	2.28 (58)
Lamp Height	H	3.09 (78.5)	3.09 (78.5)	3.09 (78.5)	3.09 (78.5)	3.09 (78.5)	3.09 (78.5)	3.09 (78.5)	3.09 (78.5)	3.09 (78.5)	3.09 (78.5)	3.09 (78.5)	3.09 (78.5)
Bracket Width	W1	0.79 (20)	1.18 (30)	1.18 (30)	1.18 (30)	1.18 (30)	1.77 (45)	1.18 (30)	1.77 (45)	1.18 (30)	1.77 (45)	1.18 (30)	1.18 (30)
Lamp Width	W2	4.33 (110)	7.56 (140)	7.56 (140)	7.56 (140)	7.56 (140)	7.56 (192)	4.92 (125)	7.56 (192)	6.22 (158)	7.56 (192)	6.22 (158)	7.56 (192)
Mounting Hole Radius	R	0.10 (2.5)	0.10 (2.5)	0.10 (2.5)	0.10 (2.5)	0.10 (2.5)	0.10 (2.5)	0.10 (2.5)	0.10 (2.5)	0.10 (2.5)	0.10 (2.5)	0.10 (2.5)	0.10 (2.5)

# Industrial and Commercial INDUCTION LIGHTING

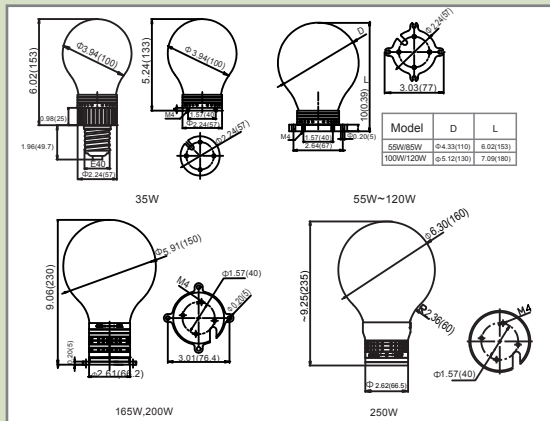
## Electrodeless Induction Lamps

GL Series 35W - 250W

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### Induction Lamp Specifications

Model No.	Wattage (W)	Operating Frequency (KHz)	Rated Initial Luminance (Lm)	Efficacy (Lm/W)	Luminance Maintenance (60Khrs)	CRI	Average Lifetime	THD
AMP-GL35	35	250	2275-2450	65-70	70%	>= 85	60 000 hrs	<10%
AMP-GL55	55		3575-3850					
AMP-GL85	85		3950-6375					
AMP-GL100	100		7000-7500	70-75				
AMP-GL120	120		8400-9000					
AMP-GL165	165		11550-12375					
AMP-GL200	200		14000-15000					
AMP-GL250	250		17500-18750					



### Induction Lamp Dimensions

Model No.	D1	H1	H2	SD
AMP-GL35	2,17 (55)	5,94 (150.9)	2,24 (57)	3,94 (100)
AMP-GL55	2,17 (55)	6,77 (171.9)	2,24 (57)	4,72 (120)
AMP-GL85	2,17 (55)	7,18 (182.3)	2,24 (57)	5,12 (130)
AMP-GL100	2,17 (55)	7,71 (195.8)	2,24 (57)	5,51 (140)
AMP-GL120	2,17 (55)	7,71 (195.8)	2,24 (57)	5,51 (140)
AMP-GL165	2,61 (66.4)	8,13 (206.5)	2,46 (62.4)	5,9 (150)
AMP-GL200	2,61 (66.4)	8,58 (21.8)	2,46 (62.4)	6,30 (160)
AMP-GL250	2,61 (66.4)	8,98 (228)	2,46 (62.4)	6,69 (170)

# Industrial and Commercial INDUCTION LIGHTING

## Electronic Ballast Specifications

SB Series, DB Series, GL Series

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### SB Series

Product No.		Model No.		Wattage (W)	Voltage (VAC)	Current (A)	Frequency (Hz)	THD	Power Factor	Input Power (W)	Case Temperature (°C)	UL CUL
Profile aluminum	Disc type	Profile aluminum	Disc type									
10601040H01	10601040H41	WJY40DH01-U	WJY40DH01-U-D	40	120-277 208-347	0.35-0.16	50/60	<= 10%	> 0.95	42	< 65	YES
10601055H01	10601055H41	WJY55DH01-U	WJY55DH01-U-D	55		0.49-0.21				58		
10601070H01	10601070H41	WJY70DH01-U	WJY70DH01-U-D	70		0.62-0.27				74		
10601080H01	10601080H41	WJY80DH01-U	WJY80DH01-U-D	80		0.70-0.32				84		
10601100H01	10601100H41	WJY100DH01-U	WJY100DH01-U-D	100		0.93-0.40				105		
10601120H01	10601120H41	WJY120DH01-U	WJY120DH01-U-D	120		1.05-0.46				126		
10601150H01	10601150H41	WJY150DH01-U	WJY150DH01-U-D	150		1.36-0.59				158		
10601200H01	10601200H41	WJY200DH01-U	WJY200DH01-U-D	200		1.79-0.77				210		
	10601250H41		WJY250DH01-U-D	250		2.19-1.05				263		
	10601300H41		WJY300DH01-U-D	300		2.63-1.20				315		
	10601400H41		WJY400DH01-U-D	400	3.50-1.52	420						

### DB Series

Product No.		Model No.		Wattage (W)	Voltage (VAC)	Current (A)	Frequency (Hz)	THD	Power Factor	Input Power (W)	Case Temperature (°C)	UL CUL
Profile aluminum	Die cast aluminum	Profile aluminum	Die cast aluminum									
10601040H01		WJY40DH01-U		40	120-277 208-347	0.35-0.16	50/60	<= 10%	> 0.95	42	< 65	YES
10601055H01		WJY55DH01-U		55		0.49-0.21				58		
10601070H01	10601070H71	WJY70DH01-U	WJY70DH01-U-TL	70		0.62-0.27				74		
10601080H01	10601080H71	WJY80DH01-U	WJY80DH01-U-TL	80		0.70-0.32				84		
10601100H01	10601100H71	WJY100DH01-U	WJY100DH01-U-TL	100		0.93-0.40				105		
10601120H01	10601120H71	WJY120DH01-U	WJY120DH01-U-TL	120		1.05-0.46				126		
10601150H01	10601150H71	WJY150DH01-U	WJY150DH01-U-TL	150		1.36-0.59				158		
10601200H01	10601200H71	WJY200DH01-U	WJY200DH01-U-TL-L	200		1.79-0.77				210		
	10601250H71		WJY250DH01-U-TL	250		2.19-1.05				263		
	10601300H71		WJY300DH01-U-TL	300		2.63-1.20				315		
	10601400H71		WJY400DH01-U-TL	400	3.50-1.52	420						

### GL Series

Product No.		Model No.		Wattage (W)	Voltage (VAC)	Current (A)	Frequency (Hz)	THD	Power Factor	Input Power (W)	Case Temperature (°C)	UL CUL
Profile aluminum	Disc type	Profile aluminum	Disc type									
10601035G01	10601035G41	VL-35WLF-U	VL-35WLF-U-D	35	120-277	0.31-0.14	50/60	<= 10%	> 0.95	37	< 65	YES
10601055G01	10601055G41	VL-55WLF-U	VL-55WLF-U-D	55		0.49-0.21				58		
10601085G01	10601085G41	VL-85WLF-U	VL-85WLF-U-D	85		0.73-0.31				89		
10601100G01	10601100G41	VL-100WLF-U	VL-100WLF-U-D	100		0.88-0.41				105		
10601120G01	10601120G41	VL-120WLF-U	VL-120WLF-U-D	120		1.11-0.48				126		
10601165G01	10601165G41	VL-165WLF-U	VL-165WLF-U-D	165		1.46-0.67				173		
10601200G01	10601200G41	VL-200WLF-U	VL-200WLF-U-D	200		1.76-0.80				210		
10601250G01	10601250G41	VL-250WLF-U	VL-250WLF-U-D	250		2.19-0.95				263		



# Industrial and Commercial INDUCTION LIGHTING



## High/Low Bay Light THK-HBDC/150, THK-HBDC/200, THK-HBDC/250



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### Product Features

- Die cast aluminum ballast casing with powder coated finish for corrosion-resistance.
- High purity aluminum reflector with vacuum coated inner surface
- THK-HBDC/150, THK-HBDC/200 acrylic / flat tempered glass / polycarbonate lens.  
THK-HBDC/250 acrylic lens.

### Lamp and Ballast

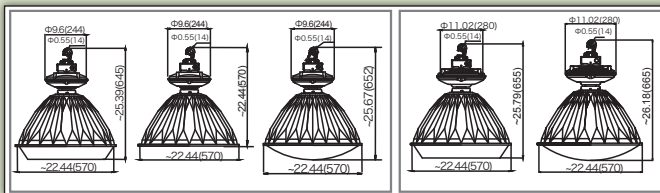
- THINK 120W - 250W round tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.



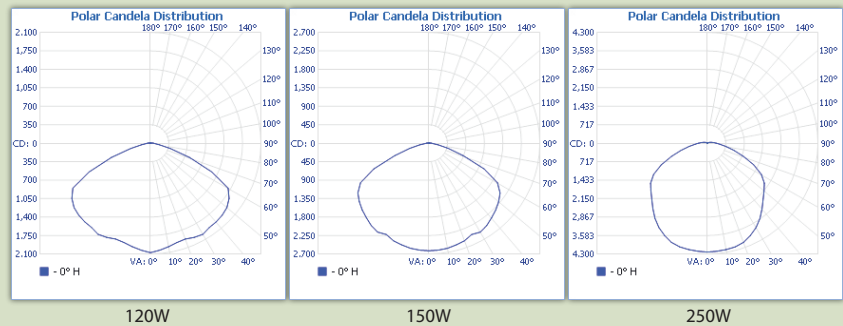
### Applications

- Stadiums, workshops, warehouses, airports, railway stations, gas stations, amusement parks, exhibition halls, supermarkets, etc.

### Dimensions



### Photometric



### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-HBDC/150	AMP-SB120	120	120-277-347	2720 - 6500	-20°C ~+40°C	Hook - Hanging Pole	IP43 (Control gear)
	AMP-SB150	150					
THK-HBDC/200	AMP-SB200	200					
THK-HBDC/250	AMP-SB250	250					

# Industrial and Commercial INDUCTION LIGHTING



## High/Low Bay Light THK-HBP/100, THK-HBP/150, THK-HBP/200, THK-HBP/250



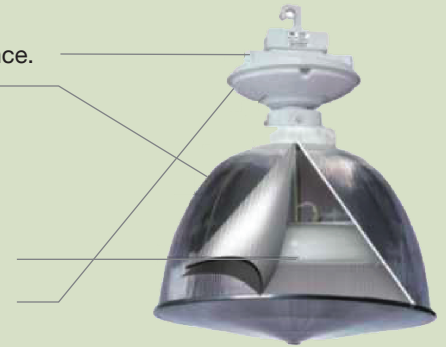
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### Product Features

- Die cast aluminum ballast casing with powder coated finish for corrosion-resistance.
- High temperature-resistant polycarbonate hood
- THK-HBP/150, THK-HBP/200, THK-HBP/250 equipped with inner reflectors

### Lamp and Ballast

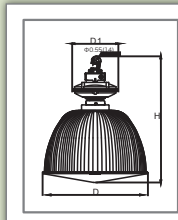
- THINK 70W - 250W round tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.



### Applications

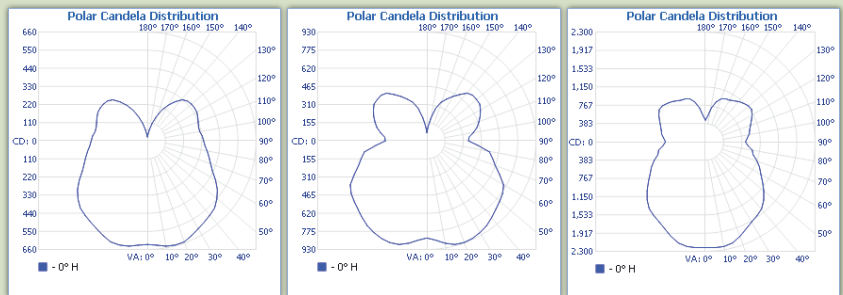
- Stadiums, workshops, warehouses, airports, railway stations, etc.

### Dimensions



Model No.	D	D1	H	Note
40	Ø12.60(320)	Ø6.54(166)	17.32(440)	12"PC
70	Ø14.25(362)	Ø8.07(205)	20.08(510)	14"PC
100	Ø16.14(410)	Ø8.07(205)	23.62(600)	16"PC
150	Ø22.44(570)	Ø9.6(244)	27.24(692)	22"PC
200	Ø22.44(570)	Ø9.6(244)	27.24(692)	22"PC
250	Ø22.44(570)	Ø11.02(280)	27.72(704)	22"PC

### Photometric



80W

120W

250W

### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-HBP/100	AMP-SB70	70	120-277-347	2720 - 6500	-20°C ~+40°C	Hook - Hanging Pole	IP43 (Control gear)
	AMP-SB80	80					
	AMP-SB100	100					
THK-HBP/150	AMP-SB120	120					
	AMP-SB150	150					
THK-HBP/200	AMP-SB200	200					
THK-HBP/250	AMP-SB250	250					

# Industrial and Commercial INDUCTION LIGHTING



## Low Bay Light THK-LBDC-2/100, THK-LBDC-2/150, THK-LBDC-2/200



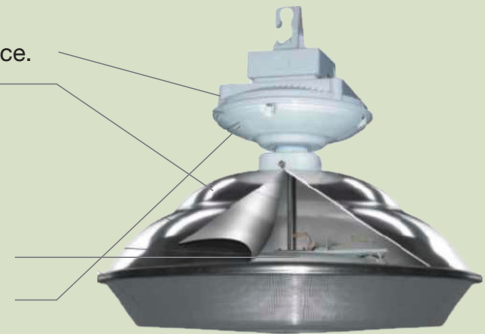
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### Product Features

- Die cast aluminum ballast casing with powder coated finish for corrosion-resistance.
- High purity aluminum reflector with vacuum coated inner surface.
- Acrylic lens

### Lamp and Ballast

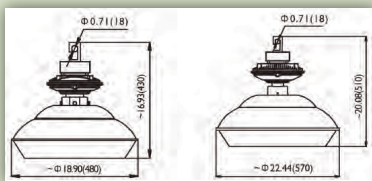
- THINK 70W - 200W round tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.



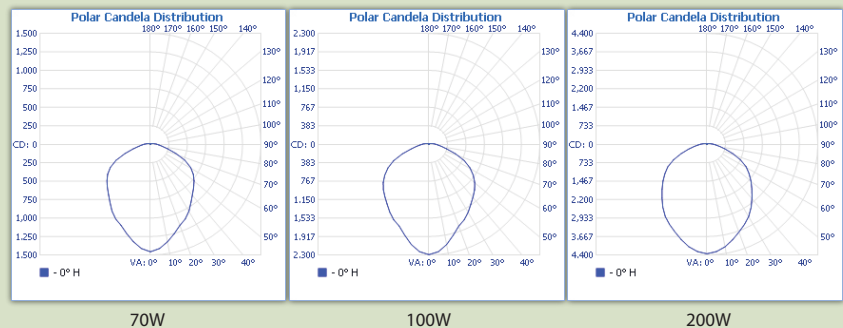
### Applications

- Stadiums, workshops, warehouses, airports, railway stations, gas stations, amusement parks, exhibition halls, supermarkets, etc.

### Dimensions



### Photometric



### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-LBDC-2/100	AMP-SB70	70	120-277-347	2720 - 6500	-20°C ~+40°C	Hook - Hanging Pole	IP43 (Control gear)
	AMP-SB80	80					
	AMP-SB100	100					
THK-LBDC-2/150	AMP-SB120	120					
	AMP-SB150	150					
THK-LBDC-2/200	AMP-SB200	200					

# Industrial and Commercial INDUCTION LIGHTING



## High/Low Bay Light THK-HBDC-3/150, THK-HBDC-3/200



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induction lighting

### Product Features

- Die cast aluminum ballast casing with powder coated finish for corrosion-resistance.
- High purity aluminum reflector with vacuum coated inner surface.
- Curve tempered glass lens

### Lamp and Ballast

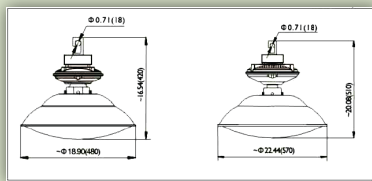
- THINK 120W - 250W round tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.



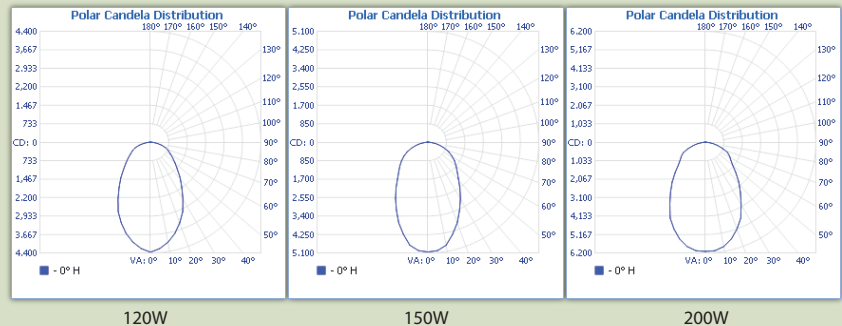
### Applications

- Stadiums, workshops, warehouses, airports, railway stations, gas stations, amusement parks, exhibition halls, supermarkets, etc.

### Dimensions



### Photometric



### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-HBDC-3/150	AMP-SB120	120	120-277-347	2720 - 6500	-20°C ~+40°C	Hook - Hanging Pole	IP43 (Control gear)
	AMP-SB150	150					
THK-HBDC-3/200	AMP-SB200	200					

# Industrial and Commercial INDUCTION LIGHTING



## High/Low Bay Light

THK-HBDC-4/150, THK-HBDC-4/200



**think**  
induction lighting

### Product Features

- Die cast aluminum ballast casing with powder coated finish for corrosion-resistance.
- High purity aluminum reflector with vacuum coated inner surface.
- Polycarbonate lens

### Lamp and Ballast

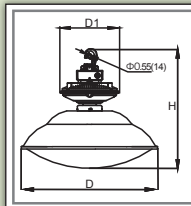
- THINK 120W - 250W round tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.



### Applications

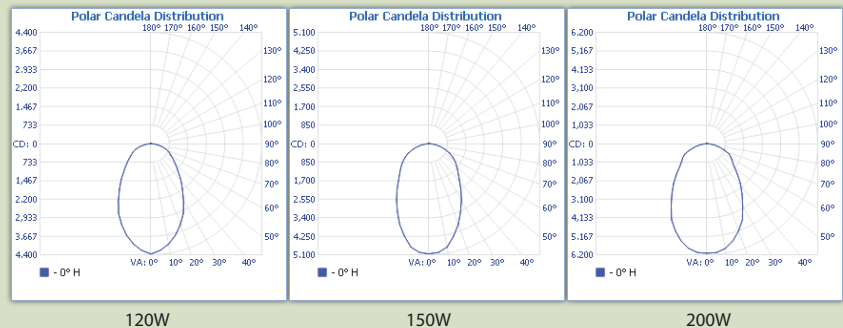
- Stadiums, workshops, warehouses, airports, railway stations, gas stations, amusement parks, exhibition halls, supermarkets, etc.

### Dimensions



Model No.	D	D1	H	Note
100	Ø18.9(480)	Ø8.07(205)	~16.93(430)	19"AL hood
150	Ø22.44(570)	Ø9.61(244)	~20.87(530)	22"AL hood
200	Ø22.44(570)	Ø9.61(244)	~20.87(530)	22"AL hood

### Photometric



### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-HBDC-4/150	AMP-SB120	120	120-277-347	2720 - 6500	-20°C ~+40°C	Hook - Hanging Pole	IP43 (Control gear)
	AMP-SB150	150					
THK-HBDC-4/200	AMP-SB200	200					

# Industrial and Commercial INDUCTION LIGHTING



## High/Low Bay Light THK-HBDC-5/250, THK-HBDC-5/300, THK-HBDC-5/400



**think**  
induction lighting

### Product Features

- Die cast aluminum ballast casing with powder coated finish for corrosion-resistance.
- High purity aluminum reflector
- Acrylic lens

### Lamp and Ballast

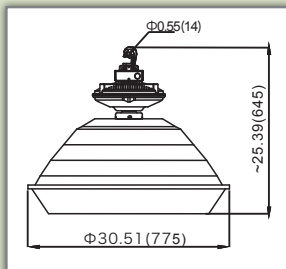
- THINK 250W - 400W round tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.



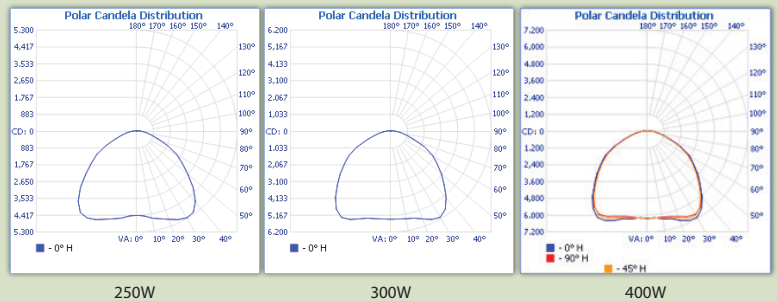
### Applications

- Stadiums, workshops, warehouses, airports, railway stations, gas stations, amusement parks, exhibition halls, supermarkets, etc.

### Dimensions



### Photometric



### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-HBDC-5/250	AMP-SB250	250	120-277-347	2720 - 6500	-20°C ~+40°C	Hook - Hanging Pole	IP43 (Control gear)
THK-HBDC-5/300	AMP-SB300	300					
THK-HBDC-5/400	AMP-SB400	400					

# Industrial and Commercial INDUCTION LIGHTING



## High/Low Bay Light

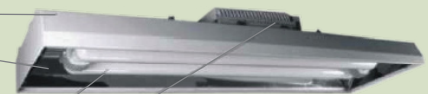
THK-RHB1/400



**think**  
induction lighting

### Product Features

- Aluminum housing with powder coated finish for corrosion-resistance.
- Reflector made of high quality aluminum plate
- Open structure for good ventilation and prolonged lifetime
- Mounting by hanging pole or "L" shape bracket



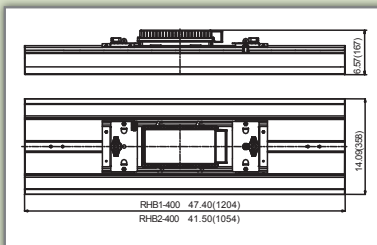
### Lamp and Ballast

- THINK 400W square tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.

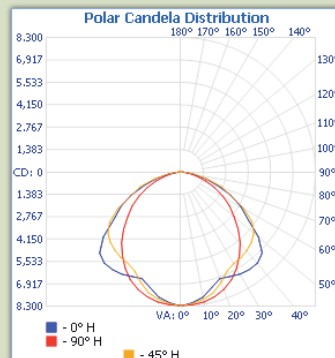
### Applications

- Warehouses, supermarkets, retail showrooms, exhibition halls, factories, etc.

### Dimensions



### Photometric



400W

### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-RHB1/400	AMP-DB400	400	120-277-347	2720 - 6500	-0°C ~+40°C	Hanging Pole - "L" shape bracket	IP20

# Industrial and Commercial INDUCTION LIGHTING



## Street Light THK-SL1/70, THK-SL1/100



**think**  
induction lighting

### Product Features

- High pressure die cast aluminum alloy housing for corrosion resistance
- Flat tempered glass lens
- High purity aluminum reflector with vacuum coated inner surface
- Optional photocell
- Timer dimming function available upon request

### Lamp and Ballast

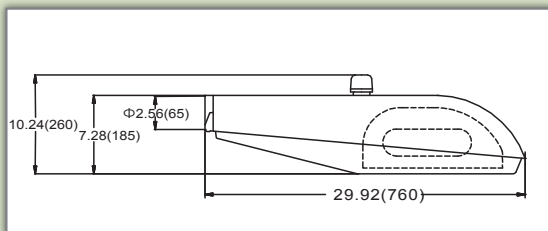
- THINK 70W-100W round tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.



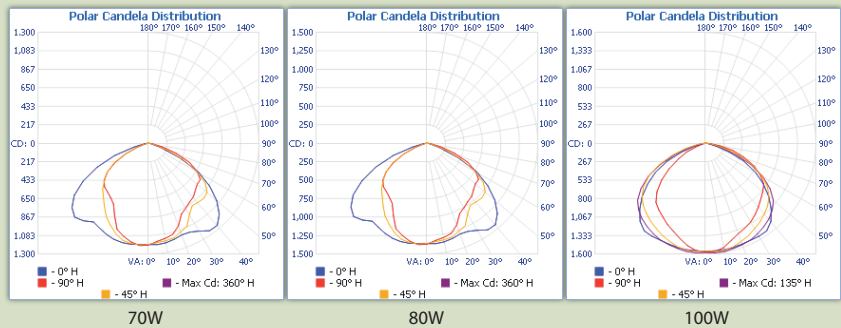
### Applications

- Freeways, highways, parking lots, public entrances, off-street areas, etc.

### Dimensions



### Photometric



### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-SL1/70	AMP-SB40	40	120-277	2720 - 6500	-20°C ~+40°C	Round Pole	IP55
	AMP-SB70	70					
THK-SL1/100	AMP-SB80	80	120-277	2720 - 6500	-20°C ~+40°C	Round Pole	IP55
	AMP-SB100	100					



# Industrial and Commercial INDUCTION LIGHTING



## Street Light THK-SL2, THK-SL2a



**think**  
induction lighting

### Product Features

- High pressure die cast aluminum lamp frame and strong stretched aluminum alloy top casting with powder coating for corrosion resistance and durable use.
- High purity aluminum reflector with vacuum coated inner surface.
- Clear tempered glass lens or polycarbonate lens available.
- Heat resistant silicone rubber sealing ring to ensure high level of IP rating.
- Optional photocell to maximize energy savings.
- Timer dimming function available upon request

### Lamp and Ballast

- THINK 100W-250W square tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.

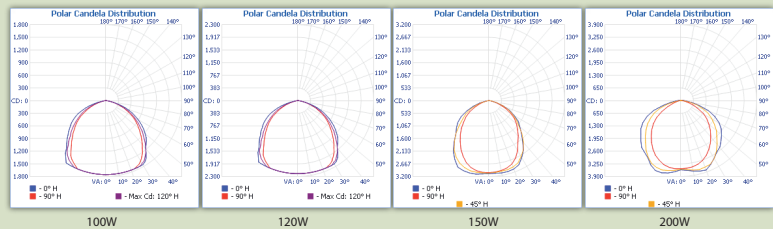
### Applications

- Freeways, highways, parking lots, public entrances, off-street areas, etc.

### Dimensions

Model No.	L	W	H
150	31.54(801)	14.49(368)	7.68(195)
250	41.50(1054)	16.50(419)	8.35(212)
150a	31.54(801)	14.49(368)	10.59(269)
250a	41.50(1054)	16.50(419)	12.59(307)

### Photometric



### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-SL2/150	AMP-DB70	70	120-277	5000	-20°C ~+40°C	Round pole	IP65
	AMP-DB80	80					
	AMP-DB120	120					
THK-SL2a/150	AMP-DB100	100	120-277 208-347				
	AMP-DB150	150					
THK-SL2/250	AMP-DB200	200					
THK-SL2a/250	AMP-DB250	250					

# Industrial and Commercial INDUCTION LIGHTING



## Tunnel Light THK-TL1/100, THK-TL1/150, THK-TL1/200

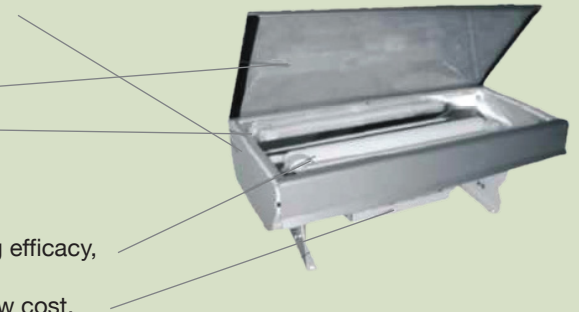


### Product Features

- Square profiled aluminum housing concealed with two extruded welding side covers for high IP rating
- Anodized aluminum reflector and clear tempered glass lens are designed to optimize light distribution
- Gas-tight silicon rubber seal made for wet locations
- Front opening structure, easy for maintenance

### Lamp and Ballast

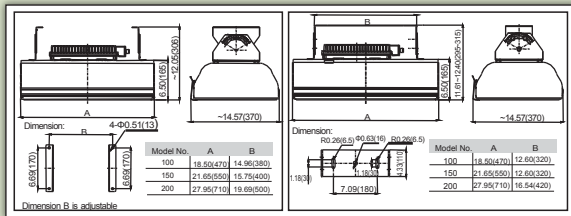
- THINK 70W-200W square tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.



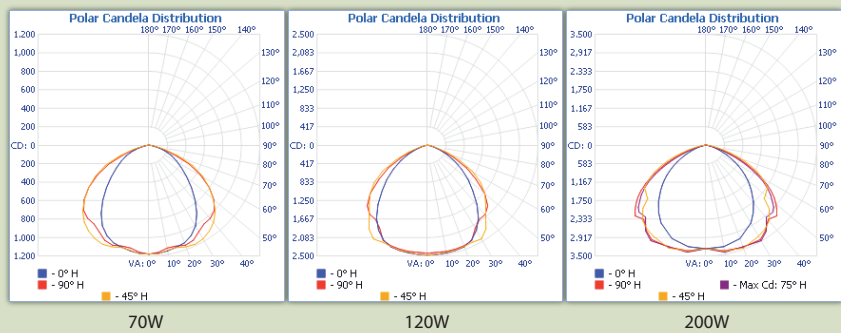
### Applications

- Tunnels, freeways, highways, parking lots, public entrances, off-street areas, etc.

### Dimensions



### Photometric



### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-TL1/100	AMP-DB70	70	120-277	2720 - 6500	-20°C ~+40°C	"U" bracket, horizontal +/- 30°, "L" bracket, horizontal +/- 30°	IP65
	AMP-DB80	80					
	AMP-DB100	100					
THK-TL1/150	AMP-DB120	120					
	AMP-DB150	150					
THK-TL1/200	AMP-DB200	200					

# Industrial and Commercial INDUCTION LIGHTING



## Tunnel Light THK-TL2/250, THK-TL2/300, THK-TL2/400



**think**  
induction lighting

### Product Features

- Square profiled aluminum housing concealed with two extruded welding side covers for high IP rating
- Anodized aluminum reflector and clear tempered glass lens are designed to optimize light distribution
- Gas-tight silicon rubber seal made for wet locations
- Front opening structure, easy for maintenance

### Lamp and Ballast

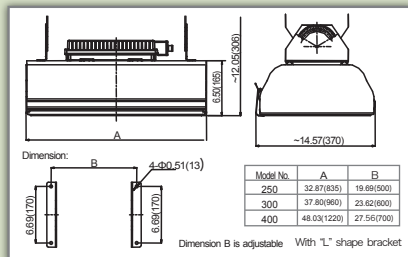
- THINK 250W-400W square tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.



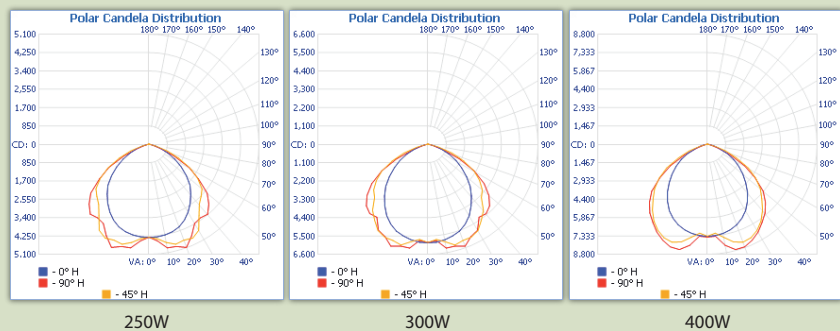
### Applications

- Tunnels, freeways, highways, parking lots, public entrances, off-street areas, stadiums, workshops, airports, gas stations, supermarkets, etc.

### Dimensions



### Photometric



### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-TL2/250	AMP-DB250	250	120-277	2720 - 6500	-20°C ~+40°C	"L" bracket, horizontal +/- 30°, Hanging pole	IP65
THK-TL2/300	AMP-DB300	300					
THK-TL2/400	AMP-DB400	400					

# Industrial and Commercial INDUCTION LIGHTING



## Garage Light

THK-GL/40, THK-GL/70, THK-GL/80, THK-GL/100



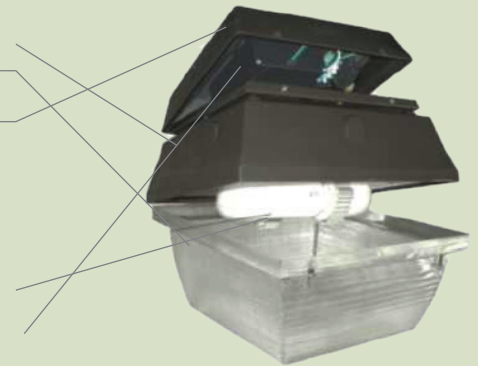
**think**  
induction lighting

### Product Features

- Die cast aluminum housing with powder coated finish for corrosion-resistance
- UV stabilized polycarbonate lens
- Separated control gear used to improve heat dispersion and extend lifetime of lighting fixture

### Lamp and Ballast

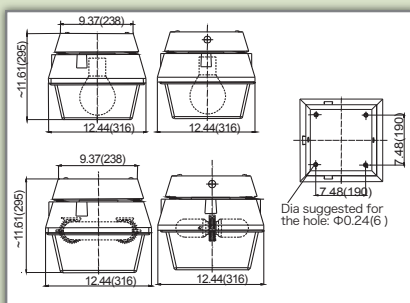
- THINK 40W-100W round tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.



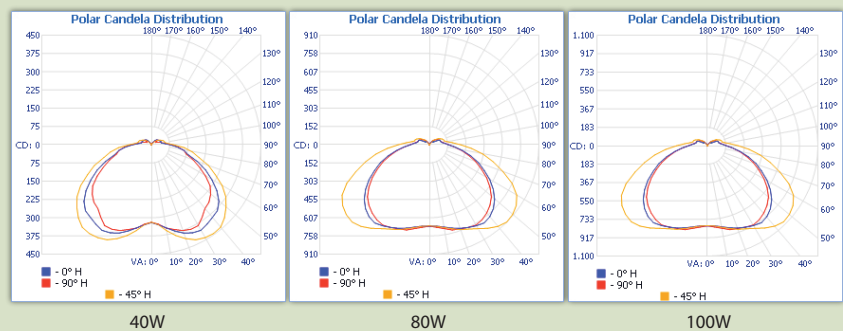
### Applications

- Parking garages, gas stations, warehouses, etc.

### Dimensions



### Photometric



### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-GL/100	AMP-SB40	40	120-277-347	2720 - 6500	-20°C ~+40°C	Roof mounts	IP43
	AMP-SB70	70					
	AMP-SB80	80					
	AMP-SB100	100					

# Industrial and Commercial INDUCTION LIGHTING



## Garage Light

THK-TSK/55



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induction lighting

### Product Features

- Die cast aluminum housing with powder coated finish for corrosion-resistance
- UV stabilized polycarbonate lens
- High purity aluminum reflector

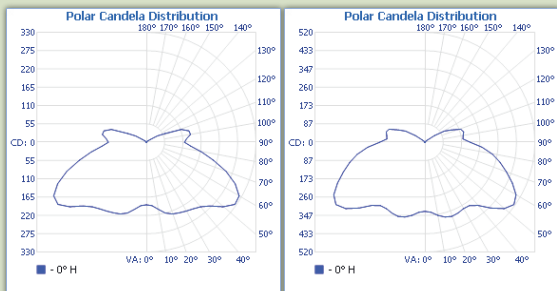
### Lamp and Ballast

- THINK 35W, 55W ball type features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.

### Applications

- Parking garages, gas stations, warehouses, etc.

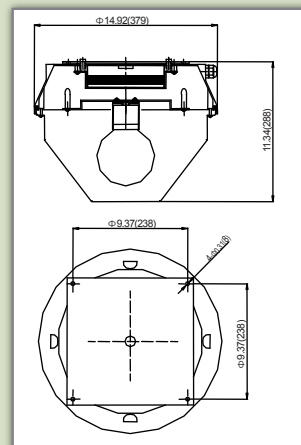
### Photometric



35W

55W

### Dimensions



### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-TSK55	AMP-GL35	35	120-277	5000	-20°C ~+40°C	Roof mounts	IP43
	AMP-GL55	55					

# Industrial and Commercial INDUCTION LIGHTING



## Surface Mounted Light

THK-FR1/100, THK-FR1/150  
THK-FR2/100, THK-FR2/150

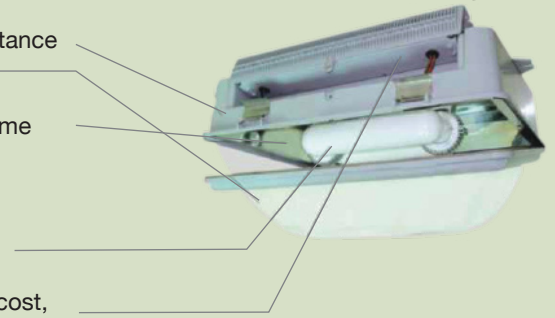


### Product Features

- Die cast aluminum housing with powder coated finish for corrosion-resistance
- FR1 : UV stabilized and heat resistant polycarbonate lens  
FR2 : Clear tempered glass lens with beautiful contour
- Separated control gear used to improve heat dispersion and extend lifetime of lighting fixture

### Lamp and Ballast

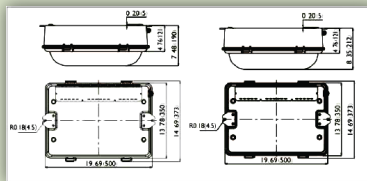
- THINK 100W-150W square tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.



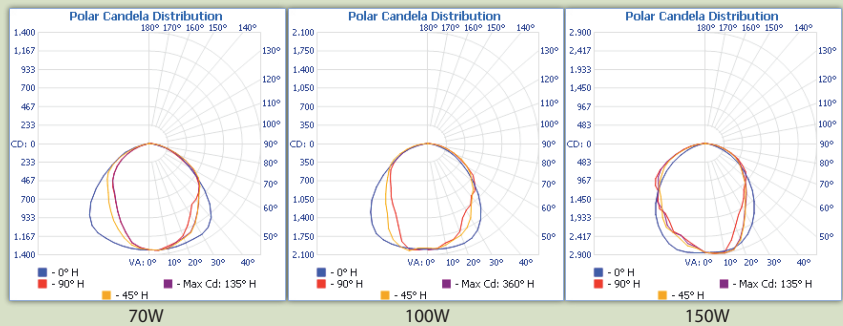
### Applications

- Parking garages, gas stations, schools, shopping malls, etc.

### Dimensions



### Photometric



### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-FR1/100	AMP-DB70	70	120-277	2720 - 6500	-40°C ~+40°C	Roof mounts	IP65
	AMP-DB80	80					
	AMP-DB100	100					
THK-FR1/150	AMP-DB120	120					
	AMP-DB150	150					
THK-FR2/100	AMP-DB70	70					
	AMP-DB80	80					
	AMP-DB100	100					
THK-FR2/150	AMP-DB120	120					
	AMP-DB150	150					

# Industrial and Commercial INDUCTION LIGHTING



## Flood Light

THK-FL1/100. THK-FL1/120  
THK-FL1/150. THK-FL1/200



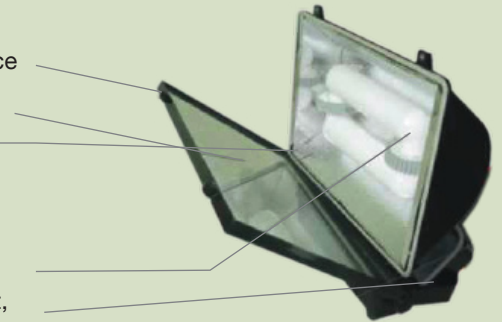
**think**  
induction lighting

### Product Features

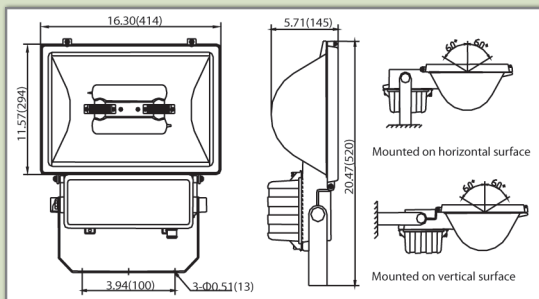
- Die cast aluminum housing with powder coated finish for corrosion-resistance
- Anodized aluminum reflector and clear tempered glass lens are designed to optimize light distribution
- Gas-tight silicon rubber seal made for wet locations

### Lamp and Ballast

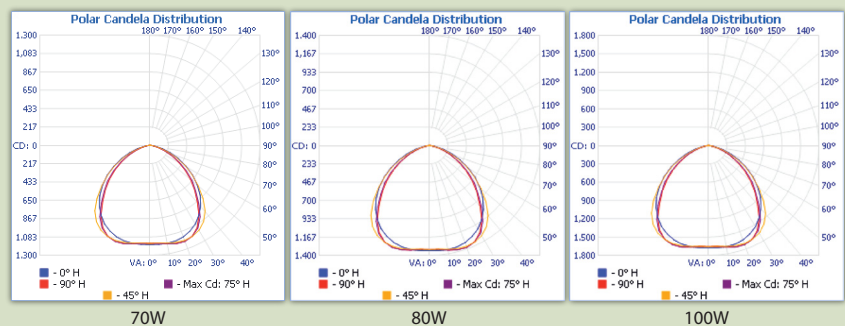
- THINK 70W-200W square tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.



### Dimensions



### Photometric



### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-FL1/100	AMP-DB70	70	120-277	2720 - 6500	-20°C ~+40°C	Round pole	IP65
	AMP-DB80	80					
	AMP-DB100	100					
THK-FL1/120	AMP-DB120	120					
THK-FL1/150	AMP-DB150	150					
THK-FL1/200	AMP-DB200	200					

# Industrial and Commercial INDUCTION LIGHTING

## Flood Light THK-FL2/100

**think**  
induction lighting

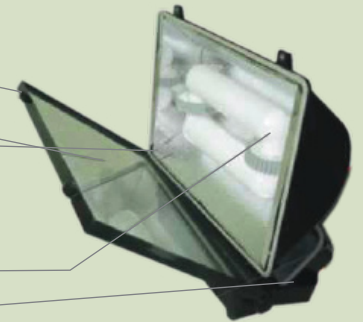


### Product Features

- Die cast aluminum housing with powder coated finish for corrosion-resistance
- Anodized aluminum reflector and clear tempered glass lens are designed to optimize light distribution
- Gas-tight silicon rubber seal made for wet locations

### Lamp and Ballast

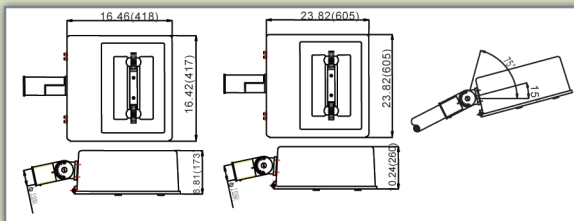
- THINK 85W ball type or 70W-100W round tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.



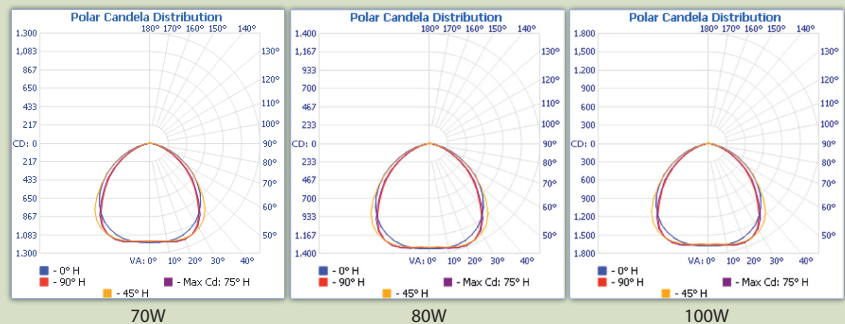
### Applications

- Billboards, buildings, parks, pools, parking lots, piazzas, tennis courts, etc.

### Dimensions



### Photometric



### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-FL2/100	AMP-DB70	70	120-277	2720 - 6500	-20°C ~+40°C	Round pole	IP65
	AMP-DB80	80					
	AMP-DB100	100					



# Industrial and Commercial INDUCTION LIGHTING

## Shoe Box Light THK-SB, THK-THK-SBa



### Product Features

- Square welded aluminum housing with powder coated finish for corrosion resistance.
- SB - clear tempered glass lens, SBa - UV proof and heat resistant polycarbonate lens.
- Aluminum reflector with vacuum coating for good lighting distribution.

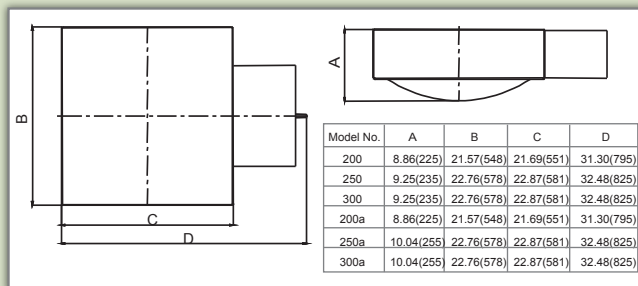
### Lamp and Ballast

- THINK 150W - 200W - 250W - 300W round tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.

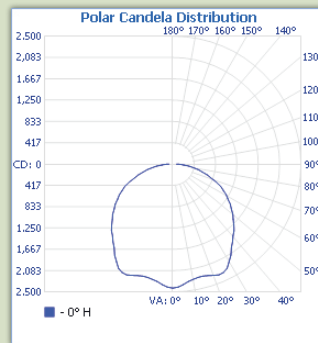
### Applications

- Parking lots, piazzas, shopping malls, tennis courts.

### Dimensions



### Photometric



150W

### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-SB/150	AMP-SB150	150	120-277	5000	-20°C ~+40°C	Square pole	IP54
THK-SB/200	AMP-SB200	200					
THK-SB/250	AMP-SB250	250					
THK-SB/300	AMP-SB300	300					
THK-SBa/200	AMP-SB200	200					
THK-SBa/250	AMP-SB250	250					
THK-SBa/300	AMP-SB300	300					

# Industrial and Commercial INDUCTION LIGHTING

## Wallpack Light THK-WP/100



**think**  
induction lighting

### Product Features

- Die cast aluminum housing with powder coated finish for corrosion-resistance
- Anodized aluminum reflector and prismatic glass lens
- Gas-tight silicon rubber seal made for wet locations

### Lamp and Ballast

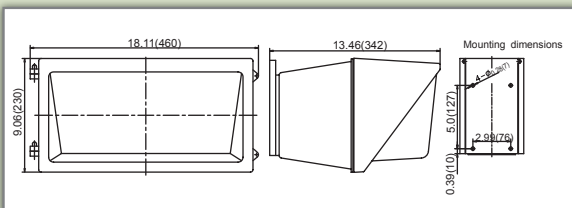
- THINK 70W-100W square tubular induction lamp features high lighting efficacy, long lifetime, good color rendering, stable output, etc.
- THINK electronic ballast features high power (>0.95), flickering free, low cost, constant output, etc.



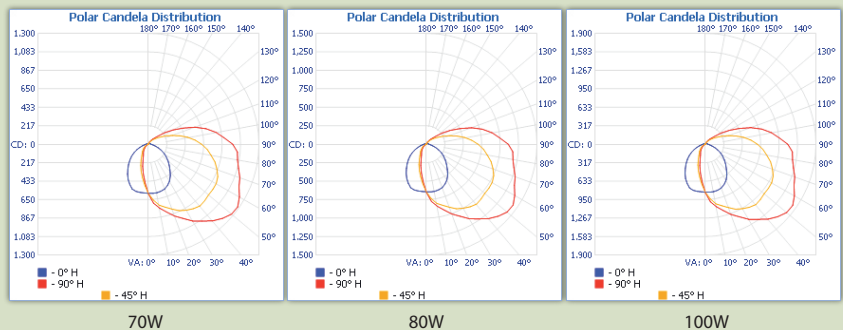
### Applications

- Parks, shopping malls, outlets, plazas, city halls, historic areas, etc.

### Dimensions



### Photometric



### Fixture Specifications

Fixture Model No.	Lamp	Wattage (W)	Voltage (V)	Color Temperature (K)	Ambient Temperature (°C)	Installation	IP Class
THK-WP/100	AMP-SB70	70	120-277 347	2720 - 6500	-20°C ~+40°C	Vertical wall	IP54
	AMP-SB80	80					
	AMP-SB100	100					

# Industrial and Commercial INDUCTION LIGHTING

## Technology Breakdown Induction Lamps

**think**  
induction lighting

### Measuring Lumens - What Are Pupil Lumens?

How people see and are psychologically impacted by lighting has been a subject of much study and discussion for years. Describing light as "lumen output" and measuring it as "foot candles" on a work surface have been the traditional ways of describing and defining how much light is required to perform a variety of tasks. However, that is being re-examined based on results of studies on visual performance and the psychological impacts of lighting. Additionally, the "color rendering index" (CRI), correlated color temperature (CCT) and Kelvin color temperature describe the quality of the light (relating to how true colors appear compared to under a noon north sky on a clear day).

As lighting technology evolves into various types and colors, simply measuring the lumens proves not to be fully adequate in predicting how well people can see. An excellent example is the low-sodium lamp which produces many lumens, but only two colors (yellow and gray); the ability to make out details, beyond shapes of objects, is lost under this light source. Different light sources produce light in different spectral ranges and there is a wide variety of spectral output available in led, THINK and fluorescent lamps.

Vision itself is affected by many factors, from light intensity, distribution, color, and contrast, to reflections, glare, air quality, motion of subjects and viewers. Our eyes use different parts to see in bright light and low light conditions. The eye contains cones and rods which were thought to work in opposite conditions. Cones provide color vision and fine detail (photopic) in bright light and rods take over in dim light (scotopic). In bright light our pupils contract allowing more detail to be perceived, while depth of field and perceived brightness also increase. In low light our eyes dilate to allow more light in.

Light meters and recommended light levels for tasks have traditionally been calibrated for daytime viewing, and general interior lighting, based on the photopic response. However, studies are indicating that the scotopic vision is more involved in interior lighting than thought, and affects pupil size. At recent conferences, some presenters encouraged designers to specify the photopic/scotopic (P/S) ratio of lamps when selecting them in order to get better design, efficiency, and better vision for occupants.

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Sam Berman—formerly with the Lighting Systems Research Group at Lawrence Berkeley Laboratory and a major supporter of the importance of the P/S ratio in lighting selection—developed a conversion factor that applies the P/S ratio to lumen output of various light sources, and then expresses the effective lumens the eye will perceive for vision based on the size of the pupil and the effect on vision (see below). Some lamps, like high-pressure sodium and metal-halide, lose most of their output using this method, while others like high-quality fluorescent lamps, led lamps and THINK lamps gain substantially.

The correction factors applied to conventional values of lumens per watt yield a value for pupil lumens per watt, which is a measure of how effectively the eye sees the light that is emitted. This is due to the pupil being more receptive to light at the blue end of the spectrum in low light conditions.

Recent studies seem to favor white light for viewing moving objects in low-light conditions, such as spotting a pedestrian or animal on the side of the road at night. Some cities opt to use white light rather than the yellowish light of high pressure sodium in hopes of reducing accidents. White light is proving to have advantages for visual performance. Current codes and standards are based on measurements that do not address the impact of pupil lumens, which can be vastly different from traditionally measured lumen output of lamps. Studies on the relevance of light spectrum and the mechanics of vision are ongoing, and codes and standards may reflect this in the future.

#### Conversion Factors for Lumens to Pupil Lumens

Light Source	Lumens per watt	(P/S Ratio)	Pupil Lumens per watt	Lumen maintenance*	Adjusted Lumens
<b>THINK 6,500K</b>	<b>85</b>	<b>2,25</b>	<b>192</b>	<b>0,94</b>	<b>181</b>
<b>THINK 5,000K</b>	<b>85</b>	<b>1,96</b>	<b>167</b>	<b>0,94</b>	<b>157</b>
5,000K T5 Fluorescent	100	1,83	183	0,94	173
4,100K T8 Fluorescent	90	1,62	145	0,94	137
Clear Metal Halide	85	1,49	126	0,58	74
High Pressure Sodium	165	0,38	63	0,89	57

\*Lumen depreciation factor after 8,000 hours