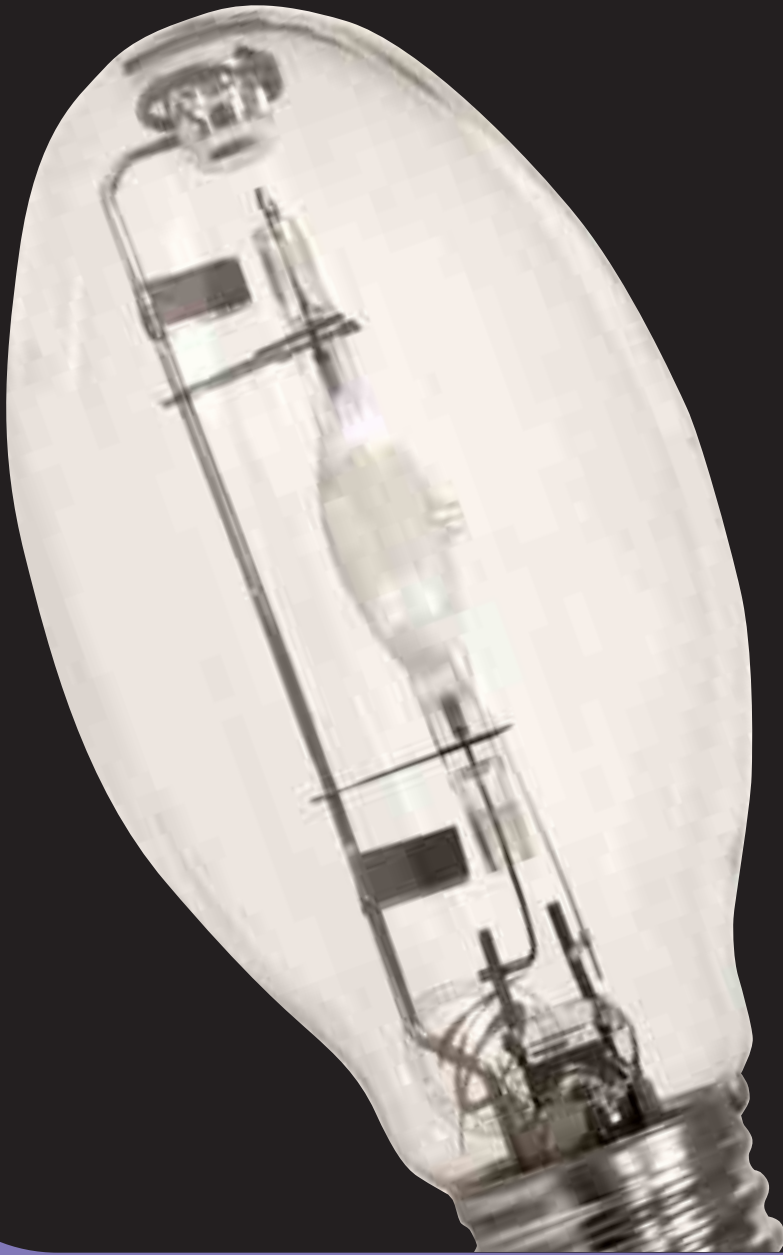


shining new light on HID



HID



Contact factory for specialty applications.
Please check Rep Link and or Customer Link for
clarification on stock and specialty items.

A brilliant light option

A long lasting and energy efficient, these lamps are ideal for
street lights, parking lots, warehouses, interior highbays, and
exterior lighting.



HID

FEATURES / BENEFITS

- Long life
- Energy efficient
- Available in multiple wattages
- Indoor and outdoor usage
- Available with UV Guard™
- Compact double ended lamps

Shining new light on energy efficient lighting

TCP provides a **wide variety** of wattages and includes
our **MP-protected** lamps for all of your
open rated applications.



LU35/MED



MH 400W/U



MH Double-Ended



MP 350W/BU/UVG/PS



LU1000/MOG



MH 175W/C/U



MP 70W/U/UVG/PS



MP 400W/BU/UVG



MH 1000W/U

So many choices
High lumens and long life make metal halide lamps an easy choice!

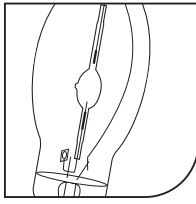
Fast warm up time
Many pulse start lamps warm up in 1 – 2 minutes. That's faster than it takes the average person to wake up!

Illuminate your world
Downlighting, floodlighting, and landscape lighting are the perfect applications for these lamps.

METAL HALIDE PULSE START PULSE PLUS™

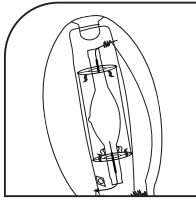


50 WATT PULSE START METAL HALIDE



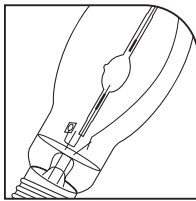
ITEM NUMBER	ITEM DESCRIPTION	ANSI SPEC	INITIAL LUMENS	MEAN LUMENS	LAMP LIFE	CCT	CRI	FINISH	OPERATING POSITION	BASE	BULB TYPE
46110	MH 50W/U/PS	M110/E	3400V 3100H	2200V 2000H	10000V 7500H	4000	65	Clear	U	E26	ED17
46111	MH 50W/C/U/PS	M110/E	3200V 2900H	2100V 1900H	10000V 7500H	3700	70	Coated	U	E26	ED17
46112	MP 50W/U/UVG/PS/3K	M110/O	3200V 2900H	2100V 1900H	10000V 7500H	3200	65	Clear	U	E26	EDX17
46113	MP 50W/C/U/UVG/PS/3K	M110/O	3000V 2700H	2000V 1800H	10000V 7500H	3200	70	Coated	U	E26	EDX17

70 WATT PULSE START METAL HALIDE



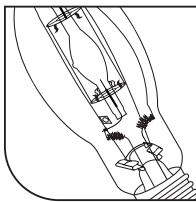
46120	MH 70W/U/PS	M98/E	5600 V 5000 H	3600 V 3300 H	15000 V 11250 H	4000	65	Clear	U	E26	ED17
46121	MH 70W/C/U/PS	M98/E	5300 V 4800 H	3400 V 3100 H	15000 V 11250 H	3700	70	Coated	U	E26	ED17
46124	MP 70W/U/UVG/PS	M98/O	5300V 4800H	3400 V 3100 H	15000 V 11250 H	4000	65	Clear	U	E26	EDX17
46127	MP 70W/C/U/UVG/PS	M98/O	5000V 4500H	3300 V 3000 H	15000 V 11250 H	3700	70	Coated	U	E26	EDX17
46122	MH 70W/U/ED28/PS	M98/E	5600V 5000H	3600 V 3300 H	15000 V 11250 H	4000	65	Clear	U	E39	ED28

100 WATT PULSE START METAL HALIDE



46130	MH 100W/U/PS	M90/E	9000 V 8100 H	5900 V 5300 H	15000 V 11250 H	4000	65	Clear	U	E26	ED17
46131	MH 100W/C/U/PS	M90/E	8500 V 7700 H	5500 V 5000 H	15000 V 11250 H	3700	70	Coated	U	E26	ED17
46132	MH 100W/U/PS/3K	M90/E	9000 V 8100 H	5900 V 5300 H	15000 V 11250 H	3200	65	Clear	U	E26	ED17
46133	MH 100W/C/U/PS/3K	M90/E	8500 V 7700 H	5500 V 5000 H	15000 V 11250 H	3200	70	Coated	U	E26	ED17
46136	MP 100W/U/UVG/PS	M90/O	8500V 7700H	5500 V 5000 H	15000 V 11250 H	4000	65	Clear	U	E26	EDX17
46139	MP 100W/C/U/UVG/PS	M90/O	8100V 7300H	5300 V 4800 H	15000 V 11250 H	3700	70	Coated	U	E26	EDX17
46134	MH 100W/U/ED28/PS	M90/E	9000V 8100H	5900 V 5300 H	15000 V 11250 H	4000	65	Clear	U	E39	ED28

150 WATT PULSE START METAL HALIDE



46156	MH 150W/U/PS	M102/E	14000 V 12600 H	10500 V 9500 H	9800 V 8800 H	4000	65	Clear	U	E26	ED17
46161	MH 150W/C/U/PS	M102/E	13300 V 12000 H	10000 V 9000 H	9300 V 8400 H	3700	70	Coated	U	E26	ED17
46158	MH 150W/U/ED28/PS	M102/E	14000V 12600H	10500 V 9500 H	9800 V 8800 H	4000	65	Clear	U	E39	ED28
46150	MP 150W/U/UVG/PS	M102/O	13300 V 12000 H	10000 V 9000 H	9300 V 8400 H	4000	65	Clear	U	E26	EDX17
46155	MP 150W/C/U/UVG/PS	M102/O	12600V 11300H	9500V 8500H	8800 V 7900 H	3700	70	Coated	U	E26	EDX17
46152	MP 150W/U/UVG/PS/3K	M102/O	13300 V 12000 H	10000 V 9000 H	9800 V 8400 H	3200	65	Clear	U	E26	EDX17

A lot of light

Great for parking garages, site lighting, and industrial lighting.

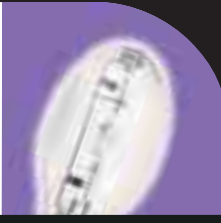
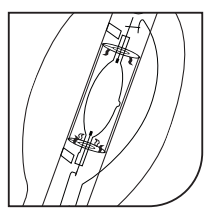
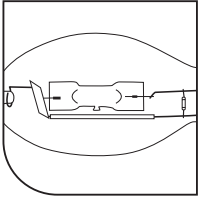
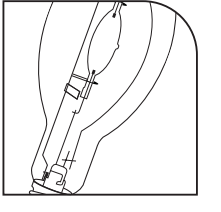
UV Guard™

Our UV Guard™ open rated lamps provide a 90% reduction in ultraviolet light output.

More light for your watts

Higher light output, better maintained lumens, and longer life than standard probe start lamps with equivalent watts.

METAL HALIDE PULSE START PULSE PLUS™

ITEM NUMBER	ITEM DESCRIPTION	ANSI SPEC	INITIAL LUMENS	MEAN LUMENS	LAMP LIFE	CCT	CRI	FINISH	OPERATING POSITION	BASE	BULB TYPE	
175 WATT PULSE START METAL HALIDE												
46170	MS 175W/BU/MED/PS	M152/E M137/E	17500	132200	15000	4000	65	Clear	BU+/-15°	E26	ED17	
46171	MS 175W/C/BU/MED/PS	M152/E M137/E	16600	12400	15000	3700	70	Coated	BU+/-15°	E26	ED17	
46174	MS 175W/BU/PS	M152/E M137/E	17500	13200	15000	4000	65	Clear	BU+/-15°	E39	ED28	
46175	MS 175W/C/BU/PS	M152/E M137/E	16600	12400	15000	3700	70	Coated	BU+/-15°	E39	ED28	
46176	MP 175W/BU/UVG/PS	M152/O M137/O	16600	12400	15000	4000	65	Clear	BU+/-15°	EX39	ED28	
46177	MP 175W/C/BU/UVG/PS	M152/O M137/O	15800	11800	15000	3700	70	Coated	BU+/-15°	EX39	ED28	
200 WATT PULSE START METAL HALIDE												
46212	MS 200W/V/PS	M136/E	21000	15800	15000	4000	65	Clear	V+/-15°	E39	ED28	
46213	MS 200W/C/V/PS	M136/E	20000	15000	15000	3700	70	Coated	V+/-15°	E39	ED28	
46214	MS 200W/BU/MED/PS	M136/E	21000	15800	12000	4000	65	Clear	BU+/-15°	E26	ED17	
46210	MP 200W/BU/UVG/PS	M136/O	20000	15000	15000	4000	65	Clear	BU+/-15°	EX39	ED28	
46215	MP 200W/C/BU/UVG/PS	M136/O	19000	14200	15000	3700	70	Coated	BU+/-15°	EX39	ED28	
250 WATT PULSE START METAL HALIDE												
46222	MS 250W/V/PS	M153/E M138/E	25000	18800	15000	4000	65	Clear	V+/-15°	E39	ED28	
46223	MS 250W/C/V/PS	M153/E M138/E	23800	17800	15000	3700	70	Coated	V+/-15°	E39	ED28	
46226	MS 250W/HOR/PS	M153/E M138/E	21000	15800	10000	4000	65	Clear	HOR+/-45°	E39	ED28	
46224	MP 250W/BU/UVG/PS	M153/O M138/O	23800	17800	15000	4000	65	Clear	BU+/-15°	EX39	ED28	
46221	MP 250W/C/BU/UVG/PS	M153/O M138/O	22600	17000	15000	3700	70	Coated	BU+/-15°	EX39	ED28	
320 WATT PULSE START METAL HALIDE												
46236	MS 320W/V/ED28/PS	M154/E M132/E	33000	24800	20000	4000	65	Clear	V+/-15°	E39	ED28	
46231	MS 320W/C/V/ED28/PS	M154/E M132/E	31000	23200	20000	3700	70	Coated	V+/-15°	E39	ED28	
46232	MS 320W/V/ED37/PS	M154/E M132/E	33000	24800	20000	4000	65	Clear	V+/-15°	E39	ED37	
46233	MS 320W/C/V/ED37/PS	M154/E M132/E	31000	23200	20000	3700	70	Coated	V+/-15°	E39	ED37	
46240	MP 320W/BU/ED28/UVG/PS	M154/O M132/O	31000	23200	20000	4000	65	Clear	BU+/-15°	EX39	ED28	
46237	MP 320W/C/BU/ED28/UVG/PS	M154/O M132/O	29000	21800	20000	3700	70	Coated	BU+/-15°	EX39	ED28	
46242	MP 320W/BU/ED37/UVG/PS	M154/O M132/O	31000	23200	20000	4000	65	Clear	BU+/-15°	EX39	ED37	
46239	MP 320W/C/BU/ED37/UVG/PS	M154/O M132/O	29000	21800	20000	3700	70	Coated	BU+/-15°	EX39	ED37	

Metal Halide

2008

Versatility
Our metal halides are perfect for your retail, hazardous location, and warehouse lighting needs.

Long Life
20,000 hours.

Green Alert



Fewer watts, more lumens
More lumen output than standard metal halide lamps, using fewer watts.

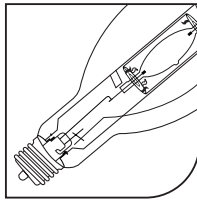
METAL HALIDE PULSE START PULSE PLUS™

Metal Halide

800.324.1496 + www.tdpi.com

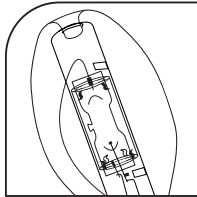


350 WATT PULSE START METAL HALIDE



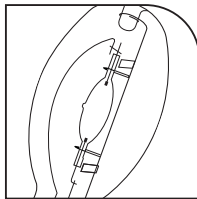
ITEM NUMBER	ITEM DESCRIPTION	ANSI SPEC	INITIAL LUMENS	MEAN LUMENS	LAMP LIFE	CCT	CRI	FINISH	OPERATING POSITION	BASE	BULB TYPE
46250	MS 350W/V/PS	M131/E	37000	27800	20000	4000	65	Clear	V+/-15°	E39	ED37
46253	MS 350W/C/V/PS	M131/E	35000	26200	20000	3700	70	Coated	V+/-15°	E39	ED37
46254	MS 350W/V/ED28/PS	M131/E	37000	27800	20000	4000	65	Clear	V+/-15°	E39	ED28
46256	MS 350W/C/V/ED28/PS	M131/E	35000	26200	20000	3700	70	Coated	V+/-15°	E39	ED28
46258	MP 350W/BU/UVG/PS	M131/O	35000	26200	20000	4000	65	Clear	BU+/-15°	EX39	ED37
46257	MP 350W/C/BU/UVG/PS	M131/O	33000	24800	20000	3700	70	Coated	BU+/-15°	EX39	ED37
46260	MP 350W/BU/ED28/UVG/PS	M131/O	35000	26200	20000	4000	65	Clear	BU+/-15°	EX39	ED28
46259	MP 350W/C/BU/ED28/UVG/PS	M131/O	33000	24800	20000	3700	70	Coated	BU+/-15°	EX39	ED28

400 WATT PULSE START METAL HALIDE



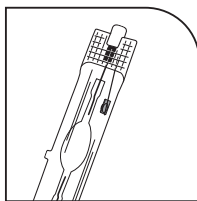
46274	MS 400W/V/PS	M155/E M135/E	44000	33000	20000	4000	65	Clear	V+/-15°	E39	ED37
46275	MS 400W/C/V/PS	M155/E M135/E	42000	31500	20000	3700	70	Coated	V+/-15°	E39	ED37
46273	MS 400W/C/V/ED28/PS	M155/E M135/E	42000	31500	20000	3700	70	Coated	V+/-15°	E39	ED28
46280	MP 400W/BU/UVG/PS	M155/O M135/O	41000	31500	20000	4000	65	Clear	BU+/-15°	EX39	ED37
46279	MP 400W/C/BU/ED28/UVG/PS	M155/O M135/O	39000	29300	20000	3700	70	Coated	BU+/-15°	EX39	ED28
46284	MS 400W/HOR/PS	M155/E M135/E	38000	28500	15000	4000	65	Clear	HOR+/-45°	E39	ED37

450 WATT PULSE START METAL HALIDE



46290	MS 450W/V/PS	M144/E	50000	37500	20000	4000	65	Clear	V+/-15°	E39	ED37
46291	MS 450W/C/V/PS	M144/E	47000	35200	20000	3700	70	Coated	V+/-15°	E39	ED37
46292	MP 450W/BU/UVG/PS	M144/O	47000	35200	20000	4000	65	Clear	BU+/-15°	EX39	ED37
46293	MP 450W/C/BU/UVG/PS	M144/O	45000	33800	20000	3700	70	Coated	BU+/-15°	EX39	ED37

SPECIALTY DOUBLE-ENDED METAL HALIDE: FEATURING UV SHIELD™ TECHNOLOGY



46420	MH-DE 70W/UVG/3K	M85 M98	5200	3400	10000	3000	70	Clear	HOR+/-45°	RCS (R7s)	T6
46422	MH-DE 70W/UVG/4K	M85 M98	5500	3600	10000	4200	70	Clear	HOR+/-45°	RCS (R7s)	T6
46424	MH-DE 150W/UVG/3K	M85 M102	11250	8200	10000	3000	70	Clear	HOR+/-45°	RCS (R7s)	T8
46426	MH-DE 150W/UVG/4K	M85 M102	11250	8200	10000	4200	70	Clear	HOR+/-45°	RCS (R7s)	T8

This way up

Universal burning position makes our lamps perfect for many applications.


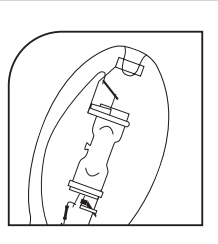
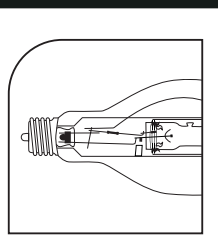
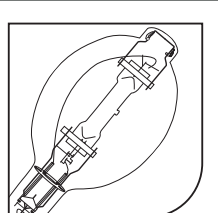
UV Guard™

Our UV Guard™ open rated lamps provide up to a 90% reduction in ultraviolet light output.

Play Ball!

Use our lamps to light stadiums, parking lots, buildings, and all your outdoor needs.

METAL HALIDE PROBE START

ITEM NUMBER	ITEM DESCRIPTION	ANSI SPEC	INITIAL LUMENS	MEAN LUMENS	LAMP LIFE	CCT	CRI	FINISH	OPERATING POSITION	BASE	BULB TYPE	
175 WATT STANDARD PROBE START METAL HALIDE												
46310	MH 175W/U	M57/E	14000 V 12600 H	9100 V 8200 H	10000 V 7500 H	4000	65	Clear	U	E39	ED28	
46311	MH 175W/C/U	M57/E	13300 V 12000 H	8600 V 7800 H	10000 V 7500 H	3700	70	Coated	U	E39	ED28	
46317	MH 175W/U/MED	M57/E	14000V 12600H	9100V 8200H	10000V 7500H	4000	65	Clear	U	E26	ED17	
46319	MH 175W/C/U/MED	M57/E	13300V 12000H	8600V 7800H	10000V 7500H	3700	70	Coated	U	E26	ED17	
250 WATT STANDARD PROBE START METAL HALIDE												
46320	MH 250W/U	M58/E	21000 V 18900 H	13700 V 12300 H	10000 V 7500 H	4000	65	Clear	U	E39	ED28	
46321	MH 250W/C/U	M58/E	20000 V 18000 H	13000 V 11700 H	10000 V 7500 H	3700	70	Coated	U	E39	ED28	
400 WATT STANDARD PROBE START METAL HALIDE												
46340	MH 400W/U	M59/E	36000 V 32400 H	23500 V 21100 H	20000 V 15000 H	4000	65	Clear	U	E39	ED37	
46341	MH 400W/C/U	M59/E	34000 V 30600 H	22000 V 19900 H	20000 V 15000 H	3700	70	Coated	U	E39	ED37	
46352	MH 400W/U/ED28	M59/E	36000 V 32400 H	23500 V 21100 H	20000 V 15000 H	4000	65	Clear	U	E39	ED28	
46347	MH 400W/C/U/ED28	M59/E	34000 V 30600 H	22000 V 19900 H	20000 V 15000 H	3700	70	Coated	U	E39	ED28	
46344	MS 400W/BU	M59/E	40000	26000	20000	4000	65	Clear	BU+/-15°	E39	ED37	
46345	MS 400W/C/BU	M59/E	38000	24000	20000	3700	70	Coated	BU+/-15°	E39	ED37	
46346	MP 400W/BU/UVG	M59/O	36000	23000	20000	4000	65	Clear	BU+/-15°	EX39	ED37	
1000 WATT STANDARD PROBE START METAL HALIDE												
46370	MH 1000W/U	M47/E	110000 V 99000 H	71000 V 64400 H	12000 V 9000 H	4000	65	Clear	U	E39	BT56	

Metal Halide

2008

High Efficacy
Ideal for general lighting applications where high efficacy and long life are desired while color rendering is not critical

P is for Practical
Perfect for outdoor applications, industrial facilities, and roadways.

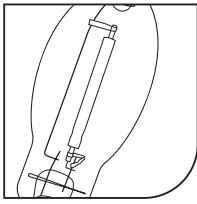
Lasts a long, long time
Long life – 24,000+ hours!

HIGH PRESSURE SODIUM



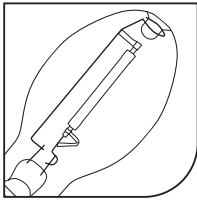
ITEM NUMBER	ITEM DESCRIPTION	ANSI SPEC	INITIAL LUMENS	MEAN LUMENS	LAMP LIFE	CCT	CRI	FINISH	DIAMETER	BULB TYPE
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HIGH PRESSURE SODIUM, MEDIUM BASE



48110	LU35/MED	S76	2200	2000	16000+	1900	22	Clear	2.13	ED17
48120	LU50/MED	S68	4000	3600	24000+	1900	22	Clear	2.13	ED17
48140	LU70/MED	S62	6400	5800	24000+	2000	22	Clear	2.13	ED17
48160	LU100/MED	S54	9000	7200	24000+	2000	22	Clear	2.13	ED17
48180	LU150/55/MED	S55	16000	14400	24000+	2000	22	Clear	2.13	ED17

HIGH PRESSURE SODIUM, MOGUL BASE



48210	LU50/MOG	S68	4000	3600	24000+	2000	22	Clear	3.00	ED23.5
48220	LU70/MOG	S62	6400	5800	24000+	2000	22	Clear	3.00	ED23.5
48230	LU100/MOG	S54	9500	8500	24000+	2000	22	Clear	3.00	ED23.5
48240	LU150/55/MOG	S55	16000	14400	24000+	2000	22	Clear	3.00	ED23.5
48250	LU250	S50	28000	25200	24000+	2100	22	Clear	2.25	ED18
48260	LU400	S51	50000	45000	24000+	2100	22	Clear	2.25	ED18
48270	LU1000	S52	130000	117000	24000+	2100	22	Clear	3.12	E25

Warranties

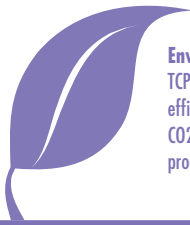
Metal Halide & High Pressure Sodium

Metal Halide & High Pressure Sodium Lamps 12 months LIMITED WARRANTY

This TCP product is warranted for a period of one year from date of original purchase against defects in materials and workmanship. If this product should fail to operate due to defects in materials or workmanship, simply return this product to the place of purchase or to TCP Service Center (address below) along with the original sales receipt within one year of purchase. This product will be repaired or replaced, at TCP's option. This warranty is expressly limited to repair or replacement of the product. This warranty gives the consumer specific legal rights, which vary from state to state.

WARRANTY IS VOID IF PRODUCT IS NOT USED FOR THE PURPOSE FOR WHICH THIS PRODUCT IS MANUFACTURED.

*All data in this catalog is subject to change without notice.



Environmentally Friendly
TCP is committed to creating energy efficient products to help reduce the CO₂ emissions that the United States produces on an annual basis.

High Intensity Discharge Technical Information

Lamp Description Codes

Each TCP lamp has an imprinted monogram code that identifies the important features needed to select a replacement. For better interpretation and selection of lamp types, the lamp description code used to identify TCP lamps appears below. Each lamp description follows the lamp standards used in the industry.

Metal Halide Description Code Example:

Lamp type: MH 350W/C/BU/ED28/PS, 350 watt pulse start lamp, enclosed fixture rated, base-up burning position, coated, reduced outer jacket bulb, standard 4000 Kelvin color temperature.

MH	350W	C	BU	ED28	PS	
Metal halide lamp type	Lamp wattage	Coated Outer jacket finish	Operating position, Base-up	Bulb shape and diameter, if non-standard	Pulse start lamp	Color temperature family, 4K unless otherwise stated

High Pressure Sodium Description Code Example:

Lamp type: LU70/MOG, 70 watt universal burning high pressure sodium lamp with a mogul base (E39). All HPS lamps can be used in the universal burn position.

LU	70	MOG
High Pressure Sodium lamp type	Lamp wattage	Mogul base E39

Lamp Description Codes:

Lamp type: LU70/MOG, 70 watt universal burning high pressure sodium lamp with a mogul base (E39). All HPS lamps can be used in the universal burn position

BU	Lamps designed for base up ($\pm 15^\circ$) operating position
V	Lamps designed for a vertical ($\pm 15^\circ$) operating position
C	Lamps with a phosphor coated (diffuse) outer jacket
ED##	Bulb shape and diameter in 1/8 inches (i.e. diameter of ED28 is 3.5 in.)
LU	High Pressure Sodium
MED	Medium base E26
MH	Metal Halide, typically universal "U"
MH-DE	Double-Ended Metal Halide lamp
MOG	Mogul base E39
MP	Lamps with protected (shrouded) arc tube designed for open luminaries
MS	High output metal halide lamps for dedicated operating positions, a "BU", "V", or "HOR"
PS	Pulse start lamp
U	Universal operating position "U"
UVG	UV Guard™ lamps with reduced ultraviolet output
HOR	Horizontal operating position (HOR $\pm 45^\circ$)

Metal Halide Warning

LAMP OPERATING CHARACTERISTICS

- 1) This is a discharge lamp and requires several minutes to restart and come to full brightness after a power interruption. For total load, add auxiliary ballast watts to lamp watts.
- 2) Color variation from lamp to lamp is an inherent characteristic of metal halide lamps. It is further influenced by variation in the operating conditions and is not an indication of lamp or system failure. As lamps age, a gradual shift in color normally appears.

WARNING: THIS LAMP CAN CAUSE SERIOUS SKIN BURN AND EYE INFLAMMATION FROM SHORTWAVE ULTRAVIOLET RADIATION IF THE OUTER ENVELOPE OF THE LAMP IS BROKEN OR PUNCTURED AND THE ARC TUBE CONTINUES TO OPERATE. DO NOT USE WHERE PEOPLE WILL REMAIN FOR MORE THAN A FEW MINUTES UNLESS ADEQUATE SHIELDING OR OTHER SAFETY PRECAUTIONS ARE USED. CERTAIN TYPES OF LAMPS THAT WILL AUTOMATICALLY EXTINGUISH WHEN THE OUTER ENVELOPE IS BROKEN OR PUNCTURED ARE COMMERCIALY AVAILABLE.

Complies with USA Federal Standard 21 CFR 1040.03 and Canadian Standard SOR/80-381.

If the outer envelope breaks or is punctured and lamp continues to operate, immediately turn power off and remove lamp after it has been cooled. If the arc tube is broken, avoid skin contact with any of the contents and fragments.



LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws.

See: www.lamprecycle.org
or 1-800-378-6998

